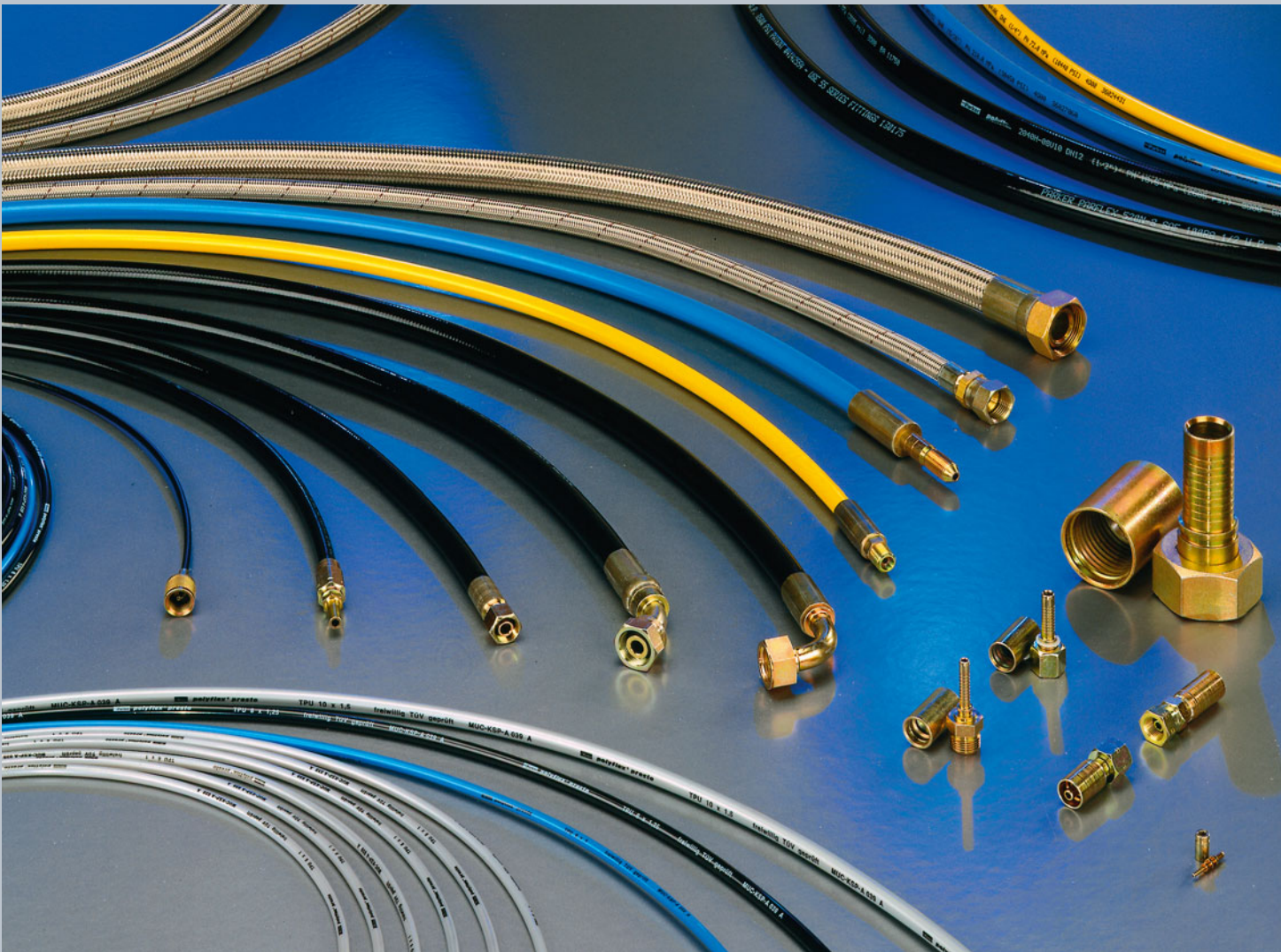




Thermoplastic Hose, Fittings and Accessories for Hydraulic and Industrial Applications

Catalogue 4460-UK
October 2001



Thermoplastic Hose, Fittings and Accessories for Hydraulic and Industrial Applications



Hüttenfeld, Germany



Wissembourg, France



Almelo, Netherlands



Buxton, UK



Chomutov, Czech Republic

For your safety!

Due to the unique design of the polyflex® hose types 2440D/2440N, 2640D/2640N with spiral layers of steel wire, static and dynamic loads may be reached which far exceed international standards. These hose types are manufactured and tested according to the polyflex® standards which have proved to be effective over many years.

Only the use of Parker components (hoses, fittings, and tools) and full compliance with the Parker assembly instructions can guarantee safety and conformity with standards.

Non-compliance with these elementary rules can lead to the failure of the hose assembly and to the loss of warranty claims.

Hose Range Overview, Fittings and Accessories

A - Hose Selection Guide

B - Small Bore Hose

C - Low Pressure Hydraulic Hose

D - Medium Pressure Hydraulic Hose

E - High Pressure Hydraulic Hose

F - Ultra-High Pressure Hydraulic Hose

G - PTFE/FEP Hose

H - Airless Paint Spray Hose

I - Gas Hose

J - Twinline/Multiline Hose

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




P

Q

R

Thermoplastic Hose, Fittings and Accessories for Hydraulic and Industrial Applications

Explanation of Symbols

Symbol	Definition	Symbol	Definition
#	part number		volumetric expansion
	hose ID		weight
	hose OD		thread size
	working pressure		hex size
	burst pressure		diameter
	minimum bend radius		vacuum

A – Hose Selection Guide

Hose Style Selection by I. D. and Working Pressure A2
Hose Style Selection by Application A4



Hose Selection Guide

Hose Style Selection by I.D and Working Pressure

Hose Style Selection by I. D. and Working Pressure

Select the suitable hose for your application using the table below. In making your selection also consider the chemical resistance of the hose according to the tables on pages P4 - P8.

Pressure and I.D. / Selection of Hose by Working Pressure

Hose Type	Working Pressure in MPa															Fitting Series	Page	
	inch	5/64	3/32	1/8	5/32	3/16	1/4	5/16	3/8	1/2	5/8	3/4	1	1 1/4	1 1/2			2
	mm	2.0	2.4	3.2	4.0	4.8	6.4	7.9	9.5	12.7	15.9	19.0	25.4	31.8	38.1			50.8
	size	-012	-016	-02	-025	-03	-04	-05	-06	-08	-10	-12	-16	-20	-24			-32
DN	2	2.5	3	4	5	6	8	10	12	16	20	25	32	40	50			
Small Bore Hose																		
2010N	40.0	22.5															EX	B2
2020N	63.0		53.0	50.0													EX	B2
2020T	63.0																EX	B3
Low Pressure Hose																		
830						1.2		1.2	1.2								82	C2
838						1.2		1.2	1.2								82	C3
GPH					1.7	1.7		1.7	1.7		1.7						55/56	C4
Medium Pressure Hose																		
515H					15.0	13.5	12.0	10.3	10.3								54	D2
550H					22.5	21.0	17.5	15.5	14.0	10.5	8.5	7.0					55/56/58	D2
540N			17.5		21.0	19.0	17.5	15.5	14.0		8.5						55/56/58	D3
560					24.0	22.5	20.5	19.0	17.5	13.7	12.0						55/56/58	D3
510A					21.0	19.0	17.5	15.5	14.0		8.5						51/55/56	D4
518C			17.5		21.0	19.3	17.5	15.5	15.5	10.5	8.5	7.0					51/55/56/58	D5
1202LT					21.0	21.0	21.0	21.0	21.0								55/56/58	D6
55LT			21.0		22.5	21.0	17.5	15.5	14.0		8.5						55/56/58	D6
573X/XL					21.0							21.0					LV	D7
High Pressure Hose																		
PTA				32.5		22.5	20.5	17.0	17.0								AF/AB	E2
PTB				42.5		40.0	33.0	30.0	24.5								BF/AB	E2
2040N			35.0		34.0	31.0	25.0	24.0	18.5	14.0	12.5	10.0					PX	E3
2040H					34.0	31.0	25.0	24.0	18.5	14.0	12.5	10.0					PX	E4
520N					34.5	34.5	31.0	27.5	24.0								55/56	E4
528N					34.5	34.5	31.0	27.5	24.0								55/56	E5
580N					34.5		27.5	24.0		15.5	14.0						58	E5
588N					34.5		27.5	24.0	19.0	15.5	14.0						58	E6
590					34.5	34.5		27.5	24.0	21.0	15.5	14.0					55/56/58	E6
575X					34.5	34.5		34.5	34.5								55/56	E7
2370N/2370H					46.5	35.0	33.0	27.5									RX/NX	E7
2245N/2244N					45.0	40.0	37.5	35.0	33.0	30.0	27.5	27.5					NX	E8
HP/HP8					69.0	69.0		55.0									HP	E9

Hose Selection Guide

Hose Style Selection by I.D and Working Pressure

A

Hose Type	Working Pressure in MPa																Fitting Series	Page
	inch	5/64	3/32	1/8	5/32	3/16	1/4	5/16	3/8	1/2	5/8	3/4	1	1 1/4	1 1/2	2		
	mm	2.0	2.4	3.2	4.0	4.8	6.4	7.9	9.5	12.7	15.9	19.0	25.4	31.8	38.1	50.8		
	size	-012	-016	-02	-025	-03	-04	-05	-06	-08	-10	-12	-16	-20	-24	-32		
DN	2	2.5	3	4	5	6	8	10	12	16	20	25	32	40	50			
Ultra High Pressure Hose																		
2244N					75.0				53.5	55.0							8X	F2
2380N							70.0										8X	F3
2388N							80.0										8X	F3
2X80N							72.0		70.0								8X/LX	F4
2440D/2440N					220.0	180.0	164.0	150.0	140.0	130.0		100.0	90.0				LX	F5
2640D/2640N					280.0	250.0		210.0		180.0		140.0					5X	F6
PTFE/FEP Hose																		
919/919B			21.0		21.0	21.0	17.5	14.0	10.3	8.3							91/91N	G2
929/929B				21.0		17.5	14.0		8.4	8.8							91N	G2
919U			21.0		17.5	14.0		8.3	6.9								91N	G3
2030T					27.5	24.0	20.0	17.5	15.0	12.5	10.0	8.0					YX	G3
2033T						27.5	25.0	22.5	20.0	17.5	15.0	11.0					PX/YX	G4
939B						14.0		10.3	9.5	6.9	7.5	6.9	6.9	5.0	1.7		93N	G4
2380F						41.0	37.5	34.0	32.5	30.0	26.5	21.0					NX	G5
2246F						41.0	37.5	34.0	32.5	30.0	26.5	21.0					NX	G5
2020T	63.0																EX	G6
Airless Paint Spray Hose																		
CPX						25.0											56	H3
2040N			35.0		34.0	31.0	25.0	24.0	18.5	14.0	12.5	10.0					PX	H3
2370N						46.5	35.5	33.0	27.5								RX/NX	H4
2380N/2244N						70.0		53.5	55.0								8X	H4
2030T					27.5	24.0	20.0	17.5	15.0	12.5	10.0	9.0					YX	H5
2033T						27.5	25.0	22.5	20.0	17.5	15.0	11.0					PX/YX	H5
Gas Hose																		
2040N						31.0											PX	I2
CNG					34.5	34.5		34.4	34.5								58	I3
2370N/2370H						46.5	35.0	33.0	27.5								NX	I4

Hose Style Selection by Application

Hose Type	Application																	Page														
	Minitecosystems	Lubrication	Cab tilt	Cabriolet	Load sensing	Gas Applications	Mining	Bicycle disc break	Adhesive systems	Mini hydraulics	Welding Robots	Pneumatic systems	Pilot systems	Machine tools	Mobile equipment	Lift trucks	Agricultural machinery		Refrigeration	Earth moving	Offshore	Airless paint spray equipment	Jacking/tensioning equipment	PU foaming	Chemical industry	Food industry	High temperature applications	Steam applications	Hot melt applications	Fire fighting equipment		
Small Bore Hose																																
2010N	●	●	●	●	●	●	●	●		●																				B2		
2020N	●		●		●	●	●			●																				B2		
2020T									●																					B3		
Low Pressure Hose																																
830											●	●																		C2		
838											●	●																		C3		
GPH												●																		C4		
Medium Pressure Hose																																
515H		●											●	●			●		●											D2		
550H			●											●	●	●		●													D2	
540N		●												●	●	●		●													D3	
560														●		●		●													D3	
510A						●								●			●														D4	
518C																															D5	
1202LT														●	●																D6	
55LT															●																D6	
573X/XL																				●											D7	
High Pressure Hose																																
PTA		●															●														E2	
PTB		●													●		●															E2
2040N			●			●								●							●									●	E3	
2040H													●				●			●										●	E4	
520N							●					●								●											E4	
528N							●					●	●							●											E5	
580N						●						●	●	●					●	●										●	E5	
588N						●								●	●				●	●											E6	
590												●				●															E6	
575X														●						●											E7	
2370N/2370H						●														●	●	●									E7	
2245N/2244N						●	●							●							●		●								E8	
HP/HP8																				●		●									E9	

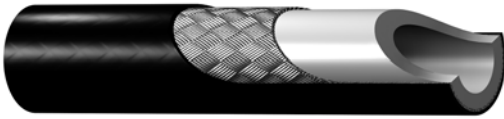
Hose Type	Application																	Page												
	Ministystems	Lubrication	Cab tilt	Cabriolet	Load sensing	Gas Applications	Mining	Bicycle disc break	Adhesive systems	Mini hydraulics	Welding Robots	Pneumatic systems	Pilot systems	Machine tools	Mobile equipment	Lift trucks	Agricultural machinery		Refrigeration	Earth moving	Offshore	Airless paint spray equipment	Jacking/tensioning equipment	PU foaming	Chemical industry	Food industry	High temperature applications	Steam applications	Hot melt applications	Fire fighting equipment
Ultra High Pressure Hose																														
2244N						●	●															●		●						F2
2380N																				●	●	●								F3
2388N																							●							F3
2X80N															●								●							F4
2440D/2440N															●					●	●									F5
2640D/2640N																			●	●										F6
PTFE/FEP Hose																														
919/919B						●		●																●	●	●	●			G2
929/929B						●		●																●	●	●	●			G2
919U																							●	●						G3
2030T						●		●													●			●						G3
2033T						●		●													●			●		●				G4
939B																								●		●				G4
2380F								●																		●				G5
2246F																									●		●			G5
2020T								●																						G6
Airless Paint Spray Hose																														
CPX																						●								H3
2040N																						●								H3
2370N																						●								H4
2380N/2244N																						●								H4
2030T																						●								H5
2033T																						●								H5
Gas Hose																														
2040N						●																								I2
CNG						●																								I3
2370N/2370H						●																								I4

B – Small Bore Hose

2010N – Small Bore Hose	B2
2020N – Small Bore Hose	B2
2020T – Small Bore PTFE Hose	B3



2010N – Small Bore Hose



Construction:

Core Tube:

Polyamide

Pressure Reinforcement:

One braided layer of high tensile synthetic fibre

Cover:

Polyamide, black

Applications:

High pressure service for use with petroleum or synthetic hydraulic fluids. Multiple applications in mini-hydraulics, diagnosis and robotics.

Fittings:

Please refer to column "Fittings". For detailed information see section K.

For pinpricked hose please add „-P“, e.g. **2010N-012V30-P**

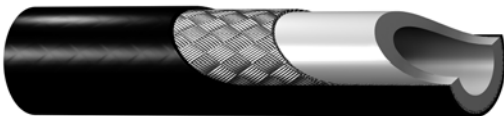
Part No. #	DN size				mm	Max. Working Pressure		Min. Burst Pressure		Min. Bend Radius	Weight	Fit-tings
	mm	inch	mm	inch		MPa / psi	MPa / psi	MPa / psi	MPa / psi			
2010N-012V30	2	-012	2.0	5/64	4.9	* 40.0	5,800	110.0	15,950	20	0.016	EX
2010N-016V30	2.5	-016	2.5	3/32	5.9	22.5	3,265	90.0	13,050	30	0.030	EX

Temperature range: -40°C up to +100°C for petroleum or synthetic hydraulic fluids.

Change in length: +2% / -4% at working pressure

* Safety factor reduced for diagnostic applications

2020N – Small Bore Hose



Construction:

Core Tube:

Polyamide

Pressure Reinforcement:

One braided layer of high tensile synthetic fibre

Cover:

Polyamide, black

Applications:

High pressure service for use with petroleum or synthetic hydraulic fluids and gases. For diagnosis, mini-hydraulics and the natural gas industry.

Fittings:

Please refer to column "Fittings". For detailed information see section K.

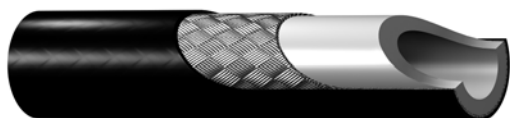
For pinpricked hose please add „-P“, e.g. **2020N-012V30-P**

Part No. #	DN size				mm	Max. Working Pressure		Min. Burst Pressure		Min. Bend Radius	Weight	Fit-tings
	mm	inch	mm	inch		MPa / psi	MPa / psi	MPa / psi	MPa / psi			
2020N-012V30	2	-012	2.0	5/64	4.9	* 63	9,135	190	27,550	20	0.016	EX
2020N-02V30	3	-02	2.9	1/8	6.0	53	7,685	160	23,200	30	0.023	EX
2020N-025V30	4	-025	4.0	5/32	8.1	* 50	7,250	176	25,520	40	0.042	EX

Temperature range: -40°C up to +100°C for petroleum or synthetic hydraulic fluids.

* Safety factor reduced for diagnostic applications

2020T – Small Bore PTFE Hose



B

Construction:

Core Tube:

Polytetrafluorethylene

Pressure Reinforcement:

One braided layer of high tensile synthetic fibre

Cover:

Polyamide, blue

Applications:

High pressure service for use with aggressive media. Suitable for feed lines in glueing/2-component applications.

Fittings:

Please refer to column "Fittings". For detailed information see section K.

For pinpricked hose please add „-P“, e.g. **2020T-012V32-P**

Part No. #	DN size				mm	Max. Working Pressure*		Min. Burst Pressure		Min. Bend Radius mm	Weight kg/m	Fit-tings
	mm	inch	mm	inch		MPa	psi	MPa	psi			
2020T-012V32	2	-012	2.0	5/64	4.9	63	9,100	190	27550	20	0.017	EX

Temperature range: -40°C up to +100°C for petroleum or synthetic hydraulic fluids.

* Safety factor reduced for diagnostic applications

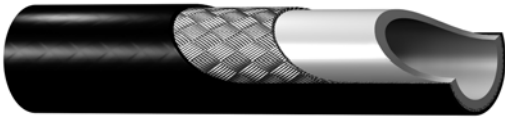
C – Low Pressure Hydraulic Hose

830 – Push-Lok® Hose C2
838 – Push-Lok® Hose, Electrically Non-Conductive C3
GPH – General Purpose Hose C4



Low Pressure Hydraulic Hose
830

830 – Push-Lok® Hose
labs free



Construction:

Core Tube:
Polyurethane

Pressure Reinforcement:
One braided layer of high tensile synthetic fibre.

Cover:
Polyurethane, standard colour: black; special colours: red, green, blue

Applications:
Factory air systems, pneumatic systems and general industrial, maintenance and automotive applications for air, water, lubricating oils and coolants for robots. Not recommended for hydraulic or other applications where extreme pulsations are encountered. Not recommended for thyristor cooling applications.

Fittings:
82 series,
see catalogue 4482-GB

Assembly instructions:
see page P21 – No tools required

Part No. #	DN size				mm	Max. Working Pressure		Min. Burst Pressure		Min. Bend Radius	Weight kg/m	Fit-tings
	mm	inch	mm	inch		MPa / psi	MPa / psi	mm				
830-4	6	-04	6.3	1/4	10.7	1.2	174	4.8	696	60	0.10	82
830-6	10	-06	9.5	3/8	14.9	1.2	174	4.8	696	75	0.14	82
830-8	12	-08	12.7	1/2	19.1	1.2	174	4.8	696	125	0.25	82

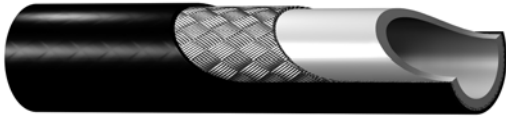
Temperature range: -20°C up to +60°C permanent temperature (short term + 80 °C)

Colour code: The following colour codes have to be added to the order number:

- BLK = black
- BLU = blue
- GRN = green
- RED = red
- eg: 830-6-GRN

838 – Push-Lok® Hose

electrically non-conductive/labs free



Construction:

Core Tube:

Polyurethane

Pressure Reinforcement:

One braided layer of high tensile synthetic fibre

Cover:

Polyurethane, orange

Applications:

Especially for thyristor cooling and other applications where electrically non-conductive hose (minimum 5 MΩ/m) is required. For factory air systems, pneumatic systems and general industrial, maintenance and automotive applications for air, water, lubricating oils and coolants for robots. Not recommended for hydraulic or other applications where extreme pulsations are encountered.

Fittings:

82 series, see catalogue 4482-GB

Assembly instructions:

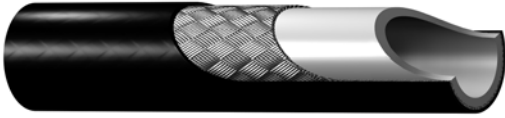
see page P21 – No tools required

Part No. #	DN size mm inch				mm	Max. Working Pressure MPa / psi		Min. Burst Pressure MPa / psi		Min. Bend Radius mm	Weight kg/m	Fit-tings
	6	-04	6.3	1/4		1.2	174	4.8	696			
838-4	6	-04	6.3	1/4	10.7	1.2	174	4.8	696	60	0.10	82
838-6	10	-06	9.5	3/8	14.9	1.2	174	4.8	696	75	0.14	82
838-8	12	-08	12.7	1/2	19.1	1.2	174	4.8	696	125	0.25	82

Temperature range: -20°C up to +60°C (short term +80°)



GPH – General Purpose Hose



Construction:

Core Tube:

Polyvinyl chloride

Pressure Reinforcement:

One braided layer of high tensile synthetic fibre

Cover:

Polyvinyl chloride: red, yellow, blue, black, grey

Applications:

Especially for air and water systems in plants and machinery, coolants and lubricated air systems, antifreeze solutions and some acids. GPH is not suggested for hydraulic service or for fuels and solvents.

Fittings:

Please refer to column "Fittings". For detailed information see section K.

Note:

56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

Part No. #	DN size mm inch				mm	Max. Working Pressure MPa / psi		Min. Burst Pressure MPa / psi		Min. Bend Radius mm	Weight kg/m	Fit-tings
GPH-3	5	-03	4.8	3/16	10.2	2.1	300	8.3	1,200	11	0.07	55/56
GPH-4	6	-04	6.3	1/4	13.0	2.1	300	8.3	1,200	16	0.11	55/56
GPH-6	10	-06	9.5	3/8	16.3	2.1	300	8.3	1,200	22	0.15	55/56
GPH-8	12	-08	12.7	1/2	20.3	2.1	300	8.3	1,200	32	0.21	55/56
GPH-12	20	-12	19.1	3/4	27.2	2.1	300	8.3	1,200	64	0.36	55

Temperature range: – 25°C to +65°C

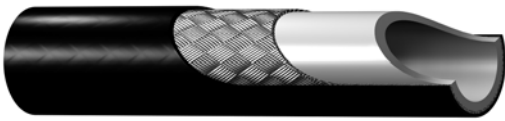
D – Medium Pressure Hydraulic Hose

515H	– Pilot Line Hose	D2
550H	– Standard Hydraulic Hose	D2
540N	– Medium Pressure Hose	D3
560	– Medium Pressure Hose	D3
510A	– Refrigerant Pressure Hose	D4
518C	– Electrically Non-Conductive Hose	D5
1202LT	– Low Temperature Hose	D6
55LT	– Low Temperature Hose	D6
573X/XL	– Low Volumetric Expansion Hose	D7



Medium Pressure Hydraulic Hose
515H/550

515H – Pilot Line Hose
Performance exceeds SAE 100 R3



Construction:

Core Tube:

Polyester elastomer

Pressure Reinforcement:

One braided layer of high tensile synthetic fibre

Cover:

Polyurethane, black, pinpricked

Applications:

Medium pressure service for use with petroleum, synthetic or water-based hydraulic fluids in hydraulic systems. Especially suitable for pilot control lines in hydraulic and pneumatic systems.

Fittings:

Please refer to column "Fittings". For detailed information see section K.

Part No. #	DN size mm inch				mm	Max. Working Pressure MPa / psi		Min. Burst Pressure MPa / psi		Min. Bend Radius mm	Weight kg/m	Fittings
	5	-03	4.8	3/16		8.4	15.0	2,175	60.0			
515H-3	5	-03	4.8	3/16	8.4	15.0	2,175	60.0	8,700	19	0.04	54
515H-4	6	-04	6.3	1/4	10.5	13.5	2,000	54.0	8,000	38	0.07	54
515H-5	8	-05	7.9	5/16	12.4	12.0	1,750	48.0	7,000	43	0.08	54
515H-6	10	-06	9.5	3/8	14.2	10.3	1,500	41.4	6,000	51	0.09	54
515H-8	12	-08	12.7	1/2	19.0	10.3	1,500	41.4	6,000	76	0.17	54

Temperature range: -40°C up to +100°C for petroleum, max. 57°C for synthetic hydraulic fluids and water-based hydraulic fluids.

Change in length: +/- 2% at working pressure

Available only as assemblies made by the factory or by authorized Parker distributors.

550H – Standard Hydraulic Hose

Performance exceeds SAE 100 R7, DIN 24 951-2KT, BS 4983 Type 1, ISO 3949-1



Construction:

Core Tube:

Polyester elastomer

Pressure Reinforcement:

One or two braided layers of high tensile synthetic fibre

Cover:

Polyurethane, black, pinpricked

Applications:

Medium pressure service for use with petroleum, synthetic or water based hydraulic fluids in hydraulic systems. Especially suitable for earthmoving, agricultural machinery and machine tools.

Fittings:

Please refer to column "Fittings". For detailed information see section K.

Also available as twinline or multilane hose, see page J2

Part No. #	DN size mm inch				mm	Max. Working Pressure MPa / psi		Min. Burst Pressure MPa / psi		Min. Bend Radius mm	Weight kg/m	Fittings
	5	-03	4.8	3/16		10.9	22.5	3,250	90.0			
550H-3	5	-03	4.8	3/16	10.9	22.5	3,250	90.0	13,000	19	0.08	55/56
550H-4	6	-04	6.3	1/4	13.0	21.0	3,000	83.0	12,000	32	0.10	55/56
550H-5	8	-05	7.9	5/16	14.5	17.5	2,500	69.0	10,000	44	0.13	55/56
550H-6	10	-06	9.5	3/8	16.5	15.5	2,250	62.0	9,000	51	0.14	55/56
550H-8	12	-08	12.7	1/2	20.6	14.0	2,000	56.0	8,000	76	0.21	55/56
550H-10	16	-10	15.9	5/8	24.9	10.5	1,250	41.5	6,000	102	0.30	58
550H-12	20	-12	19.1	3/4	26.9	8.5	1,250	34.5	5,000	127	0.31	55
550H-16	25	-16	25.4	1	33.8	7.0	1,000	27.5	4,000	203	0.40	55

Temperature range: -40°C up to +100°C for petroleum, max. 57°C for synthetic hydraulic fluids and water-based hydraulic fluids.

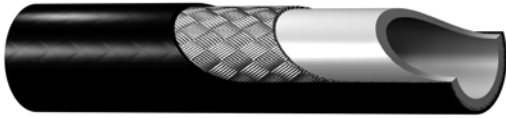
Change in length: +/- 2% at working pressure

Note:

56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

540N – Medium Pressure Hose

Performance exceeds SAE 100 R7, DIN 24 951-2KT, BS 4983 Type 1, ISO 3949-1



Construction:

Core Tube:
Polyamide

Pressure Reinforcement:
One braided layer of high tensile synthetic fibre

Cover:
Polyurethane, black, pin-pricked

Applications:

Medium pressure service for use with petroleum or synthetic hydraulic fluids in hydraulic systems, as well as for use with some chemical fluids. Also on agricultural machinery, robotics systems and for use with fire resistant fluids.

Fittings:

Please refer to column "Fittings". For detailed information see section K.

Also available as twinline or multilined hose, see page J2.

Part No. #	DN size mm inch				mm	Max. Working Pressure MPa / psi		Min. Burst Pressure MPa / psi		Min. Bend Radius mm	Weight kg/m	Fittings
	3	-02	3.2	1/8		8.4	17.5	2,500	70.0			
540N-2	3	-02	3.2	1/8	8.4	17.5	2,500	70.0	10,000	13	0.05	58
540N-3	5	-03	4.8	3/16	10.5	21.0	3,000	83.0	12,000	19	0.08	55/56
540N-4	6	-04	6.3	1/4	12.6	19.0	2,750	76.0	11,000	38	0.10	55/56
540N-5	8	-05	7.9	5/16	14.1	17.5	2,500	69.0	10,000	44	0.12	55/56
540N-6	10	-06	9.5	3/8	16.0	15.5	2,250	62.0	9,000	51	0.14	55/56
540N-8	12	-08	12.7	1/2	20.1	14.0	2,000	56.0	8,000	76	0.21	55/56
540N-12	20	-12	19.1	3/4	26.3	8.5	1,250	34.5	5,000	152	0.25	55

Temperature range: -40°C up to +100°C

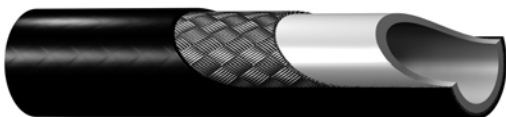
Change in length: +/-2% at working pressure

Note:

56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

560 – Medium Pressure Hose

Performance exceeds DIN 20 022-1SN / SAE 100 R1



Construction:

Core Tube:
Polyester elastomer

Pressure Reinforcement:
One braided layer of high tensile steel wire

Cover:
Polyurethane, black

Applications:

Medium pressure service for use with petroleum, synthetic or water based hydraulic fluids. Especially suitable for hydraulic systems, machine tools, agricultural machinery etc.

Fittings:

Please refer to column "Fittings". For detailed information see section K.

Part No. #	DN size mm inch				mm	Max. Working Pressure MPa / psi		Min. Burst Pressure MPa / psi		Min. Bend Radius mm	Weight kg/m	Fittings
	5	-03	4.8	3/16		10.7 <th>24.0</th> <th>3,500</th> <th>96.0</th> <th>14,000</th>	24.0	3,500	96.0			
560-3	5	-03	4.8	3/16	10.7	24.0	3,500	96.0	14,000	19	0.11	55/56
560-4	6	-04	6.3	1/4	13.0	22.5	3,250	90.0	13,000	44	0.15	55/56
560-5	8	-05	7.9	5/16	14.4	20.5	3,000	82.0	12,000	50	0.19	55/56
560-6	10	-06	9.5	3/8	16.3	19.0	2,750	76.0	11,000	57	0.22	55/56
560-8	12	-08	12.7	1/2	20.1	17.5	2,500	70.0	10,000	83	0.30	55/56
560-10	16	-10	15.9	5/8	23.4	13.7	2,000	55.0	8,000	151	0.46	55
560-12	20	-12	19.1	3/4	28.4	12.0	1,750	48.0	7,000	178	0.60	58

Temperature range: -40°C up to +121°C for petroleum, max. 57°C for synthetic hydraulic fluids and water-based hydraulic fluids.

Note:

56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

Medium Pressure Hydraulic Hose
510A

510A – Refrigerant Hose

Performance exceeds SAE 100 R7



Construction:

Core Tube:

Polyamide Co-Polymer

Pressure Reinforcement:

Two braided layers of high tensile synthetic fibre

Cover:

Polyurethane, black, pin-pricked

Applications:

Medium pressure service for use with petroleum, synthetic or water-based hydraulic fluids in hydraulic systems, in coolant technology for fluids such as FREON/R12/R22/R134A.

Fittings:

Please refer to column "Fittings". For detailed information see section K.

Part No. #	DN size				mm	Max. Working Pressure		Min. Burst Pressure		Min. Bend Radius	Weight	Fit-tings
	mm	inch	MPa	psi		MPa	psi	kg/m				
510A-3	5	-03	4.8	3/16	10.9	21.0	3,000	84.0	12,000	51	0.07	51/55/56
510A-4	6	-04	6.3	1/4	11.9	19.0	2,750	76.0	11,000	64	0.08	51/55/56
510A-5	8	-05	7.9	5/16	14.5	17.5	2,500	70.0	10,000	76	0.11	51
510A-6	10	-06	9.5	3/8	16.0	15.5	2,250	63.0	9,000	102	0.12	51/55/56
510A-8	12	-08	12.7	1/2	20.6	14.0	2,000	56.0	8,000	140	0.19	51/55/56
510A-12	20	-12	19.1	3/4	27.9	8.5	1,250	34.0	5,000	190	0.29	51

Temperature range: -40°C up to +100°C for petroleum or synthetic hydraulic fluids

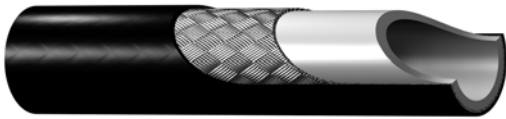
Change in length: +/- 3% at working pressure

Note:

56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

518C – Electrically Non-Conductive Hose

Performance exceeds SAE 100 R7



Construction:

Core Tube:

Polyester elastomer

Pressure Reinforcement:

One braided layer of high tensile synthetic fibre

Cover:

Special PFX, orange

Applications:

Medium pressure service for use with petroleum or synthetic hydraulic fluids in hydraulic systems where electrically non-conductive lines are required, e.g. in hydraulic systems on utility vehicles and working platforms for high-voltage line repair.

Fittings:

Please refer to column "Fittings". For detailed information see section K.

Also available as twinline or multilayer hose, see page J2
51 series reusable: ask for details.

Note:

56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

Part No. #	DN size mm inch				mm	Max. Working Pressure MPa / psi		Min. Burst Pressure MPa / psi		Min. Bend Radius mm	Weight kg/m	Fittings
518C-2	3	-02	3.2	1/8	8.6	17.5	2,500	70.0	10,000	13	0.05	58
518C-3	5	-03	4.8	3/16	10.7	21.0	3,000	83.0	12,000	19	0.07	51/55/56
518C-4	6	-04	6.3	1/4	12.0	19.3	2,750	76.5	11,000	38	0.08	51/55/56
518C-5	8	-05	7.9	5/16	14.5	17.5	2,500	70.0	10,000	44	0.11	51/55/56
518C-6	10	-06	9.5	3/8	16.0	15.5	2,250	62.0	9,000	51	0.14	51/55/56
518C-8	12	-08	12.7	1/2	20.6	15.5	2,250	62.0	9,000	76	0.22	51/55/56
518C-10	16	-10	15.9	5/8	24.9	10.5	1,500	42.0	6,000	102	0.30	58
518C-12	20	-12	19.1	3/4	27.4	8.5	1,250	34.5	5,000	152	0.31	51/55
518C-16	25	-16	25.4	1	33.5	7.0	1,000	27.5	4,000	203	0.40	51/55

Temperature range: -40°C up to +100°C except limited to +57 °C for synthetic hydraulic fluids and waterbased fluids

Change in length: +/-2% at working pressure

Insulation resistivity: SAE J517 (less than 50 µA leakage under 75,000 Volts per feet)

D

1202LT – Low Temperature Hose

Constant Working Pressure



Construction:

Core Tube:

Polyester elastomer

Pressure Reinforcement:

One or two braided layers of high tensile synthetic fibre

Cover:

Special polyester, black, pinpricked

Applications:

Medium pressure service for use with petroleum or synthetic hydraulic fluids in hydraulic systems. Ideal for use at very low temperatures, e.g. fork-lift trucks in refrigerated warehouses, earthmoving and agricultural machinery for cold climates.

Fittings:

Please refer to column "Fittings".

For detailed information see section K.

Part No. #	DN size			mm	Max. Working Pressure		Min. Burst Pressure		Min. Bend Radius	Weight	Fittings	
	mm	inch	mm		MPa / psi	MPa / psi	kg/m					
1202LT-3	5	-03	4.8	3/16	10.9	21.0	3,000	83.0	12,000	19	0.08	55/56
1202LT-4	6	-04	6.3	1/4	12.9	21.0	3,000	83.0	12,000	32	0.11	55/56
1202LT-5	8	-05	7.9	5/16	14.5	21.0	3,000	83.0	12,000	45	0.13	55/56
1202LT-6	10	-06	9.5	3/8	16.5	21.0	3,000	83.0	12,000	51	0.16	55/56
1202LT-8	12	-08	12.7	1/2	22.6	21.0	3,000	83.0	12,000	89	0.30	58

Temperature range: -57°C up to +100°C for petroleum, max. 57°C for synthetic hydraulic fluids and water-based hydraulic fluids.

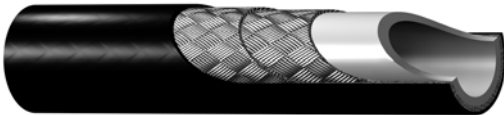
Change in length: +/- 2% at working pressure

Also available as twinline or multiline hose, see page J2.

Note: 56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

55LT – Low Temperature Hose

Performance exceeds DIN 24 951 Part 2, SAE 100 R7



Construction:

Core Tube:

Polyester elastomer

Pressure Reinforcement:

Two braided layers of high tensile synthetic fibre

Cover:

Special polyester, black, pinpricked

Applications:

Medium pressure service for use with petroleum, synthetic or water based hydraulic fluids in hydraulic systems. Ideal for use at low temperature, e.g. fork-lift trucks in refrigerated warehouses, earthmoving and agricultural machinery for cold climates.

Fittings:

Please refer to column

"Fittings". For detailed information see section K.

Part No. #	DN size			mm	Max. Working Pressure		Min. Burst Pressure		Min. Bend Radius	Weight	Fittings	
	mm	inch	mm		MPa / psi	MPa / psi	kg/m					
55LT-2	3	-02	3.2	1/8	8.6	21.0	3,000	79.0	11,500	13	0.05	58
55LT-3	5	-03	4.8	3/16	10.9	22.5	3,250	90.0	13,000	19	0.05	55/56
55LT-4	6	-04	6.3	1/4	13.0	21.0	3,000	83.0	12,000	32	0.10	55/56
55LT-5	8	-05	7.9	5/16	14.5	17.5	2,500	69.0	10,000	44	0.13	55/56
55LT-6	10	-06	9.5	3/8	16.5	15.5	2,250	62.0	9,000	51	0.14	55/56
55LT-8	12	-08	12.7	1/2	20.6	14.0	2,000	56.0	8,000	76	0.21	55/56
55LT-12	20	-12	19.1	3/4	26.9	8.5	1,250	34.5	5,000	127	0.31	55

Temperature range: -57°C up to +100°C for petroleum, max. 57°C for synthetic hydraulic fluids and water-based hydraulic fluids.

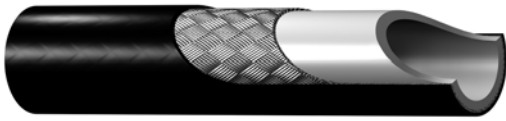
Change in length: +/- 2% at working pressure

Also available as twinline or multiline hose, see page J2.

Note: 56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

573X/573XL – Low Volumetric Expansion Hose

Constant Working Pressure



Construction:

Core Tube:
Polyamide

Pressure Reinforcement:
One braided layer of high tensile synthetic fibre

Cover:
Special polyurethane, black

Applications:
Medium pressure service for use with petroleum or synthetic hydraulic fluids for offshore oil applications, such as BOP bundles, where low volumetric expansion is required.

Fittings:
LV series on request
Factory assembly only.

Part No. #	DN size mm inch				mm	Max. Working Pressure MPa / psi		Min. Burst Pressure MPa / psi		Min. Bend Radius mm	Weight kg/m	Volumetric Expansion ml/m	Fittings
	5	-03	4.8	3/16		21.0	3,000	83.0	12,000				
573X-3	5	-03	4.8	3/16	8.9	21.0	3,000	83.0	12,000	51	0.04	2.3	LV
573XL-3	5	-03	4.8	3/16	8.9	21.0	3,000	83.0	12,000	51	0.05	1.6	LV
573X-16	25	-16	25.4	1	37.3	21.0	3,000	83.0	12,000	254	0.60	38.0	LV

Temperature range: -40°C up to +100°C for petroleum or synthetic hydraulic fluids

Change in length: max. +/- 2% at working pressure

D

Notes

Lined area for notes consisting of multiple horizontal lines.

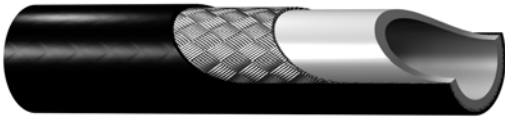
E – High Pressure Hydraulic Hose

PTA	– Hose For Reusable Fittings	E2
PTB	– Hose For Reusable Fittings	E2
2040N	– Multi Purpose Hose	E3
2040H	– Standard Hydraulic Hose	E4
520N	– Standard Hydraulic Hose	E4
528N	– Electrically Non-Conductive Hose	E5
580N	– Standard Hydraulic Hose	E5
588N	– Electrically Non-Conductive Hose	E6
590	– Hybrid High Pressure Hose	E6
575X	– Low Volumetric Expansion Hose	E7
2370N/2370H	– Multi Purpose Hose	E7
2245N/2244N	– High Pressure Hose	E8
HP/HP8	– High Pressure Hose	E9

E

High Pressure Hydraulic Hose PTA/PTB

PTA – Hose For Reusable Fittings



Construction:

Core Tube:
Polyamide

Pressure Reinforcement:
One braided layer of high tensile synthetic fibre.

Cover:
Polyurethane,
except -025: Polyamide

Applications:

High pressure service for use with petroleum or synthetic hydraulic fluids in hydraulic systems and lubricating systems. Especially suitable for systems, where small outer diameters are required under difficult assembly conditions.

Fittings:

Please refer to column "Fittings". For detailed information see section K.

Part No. #	DN size mm inch				mm	Allowable Working Pressure MPa / psi						Burst Pressure MPa / psi		Min. Bend Radius mm	Weight kg/m	Fit-tings
						+20°C	+50°C	+80°C								
PTA-025	4	-025	4.0	5/32	8.1	37.0	5,370	32.5	4,710	28.0	4,060	92.5	13,410	40	0.040	AF/AB
PTA-04	6	-04	6.3	1/4	11.2	25.5	3,700	22.5	3,260	19.0	2,760	64.0	9,280	63	0.075	AF/AB
PTA-05	8	-05	8.0	5/16	13.3	22.5	3,260	20.0	2,900	17.0	2,470	56.0	8,120	80	0.100	AF/AB
PTA-06	10	-06	10.0	3/8	16.7	19.0	2,760	17.0	2,470	14.5	2,100	47.5	6,880	100	0.145	AF/AB
PTA-08	12	-08	13.0	1/2	21.4	16.0	2,320	14.0	2,030	12.0	1,740	40.0	5,800	130	0.220	AF/AB

Temperature range: -40 °C up to +100 °C

PTB – Hose For Reusable Fittings



Construction:

Core Tube:
Polyamide

Pressure Reinforcement:
Two braided layers of high tensile synthetic fibre.

Cover:
Polyurethane,
except -025: Polyamide

Applications:

High pressure service for use with petroleum or synthetic hydraulic fluids in hydraulic systems and lubricating systems. Especially suitable for systems, where small outer diameters are required under difficult assembly conditions.

Fittings:

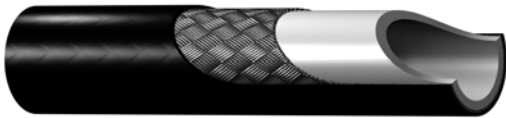
Please refer to column "Fittings". For detailed information see section K.

Part No. #	DN size mm inch				mm	Allowable Working Pressure MPa / psi						Burst Pressure MPa / psi		Min. Bend Radius mm	Weight kg/m	Fit-tings
						+20°C	+50°C	+80°C								
PTB-025	4	-025	4.0	5/32	9.2	48.5	7,030	42.5	6,160	38.0	5,510	121.5	17,620	40	0.055	BF/AB
PTB-04	6	-04	6.3	1/4	13.0	45.5	6,600	40.0	5,800	36.0	5,220	114.0	16,530	63	0.110	BF/AB
PTB-05	8	-05	8.0	5/16	14.9	37.5	5,440	33.0	4,790	30.0	4,350	94.0	13,630	80	0.135	BF/AB
PTB-06	10	-06	10.0	3/8	18.0	34.0	4,930	30.0	4,350	27.0	3,920	85.0	12,320	100	0.190	BF/AB
PTB-08	12	-08	13.0	1/2	21.9	28.0	4,060	24.5	3,550	22.0	3,190	70.0	10,150	130	0.270	BF/AB

Temperature range: -40 °C up to +100 °C

2040N – Multi Purpose Hose

Performance exceeds DIN 20 022 Part 1, DNV approved



Construction:

Core Tube:
Polyamide

Pressure Reinforcement:
One braided layer of high tensile steel wire

Cover:
Polyurethane, black

Applications:
High pressure service for use with petroleum or synthetic hydraulic fluids, gases, or paint spray applications.

Fittings:
Please refer to column "Fittings". For detailed information see section K.

For pinpricked hose please add „P“, e.g. **2040N-02V00-P**

Part No. #	DN size mm inch				mm	Max. Working Pressure MPa / psi		Min. Burst Pressure MPa / psi		Min. Bend Radius mm	Weight kg/m	Fit-tings
	3	5	6	8		10	12	16	20			
2040N-02V00	3	-02	3.2	1/8	7.0	35.0	5,075	140.0	20,300	30	0.07	PX
2040N-03V00	5	-03	4.7	3/16	9.8	34.0	4,930	136.0	19,720	30	0.11	PX
2040N-04V00	6	-04	6.3	1/4	11.9	31.0	4,495	124.0	17,980	40	0.16	PX
2040N-05V00	8	-05	8.2	5/16	14.0	25.0	3,630	100.0	14,500	50	0.21	PX
2040N-06V00	10	-06	9.7	3/8	15.9	24.0	3,480	96.0	13,920	60	0.24	PX
2040N-08V00	12	-08	12.8	1/2	19.3	18.5	2,680	74.0	10,730	75	0.29	PX
2040N-10V00	16	-10	16.0	5/8	23.5	14.0	2,030	56.0	8,120	110	0.39	PX
2040N-12V00	20	-12	19.4	3/4	26.7	12.5	1,810	50.0	7,250	170	0.50	PX
2040N-16V00	25	-16	25.0	1	33.5	10.0	1,450	40.0	5,800	230	0.60	PX

Temperature range: -40°C up to +100°C for petroleum or synthetic hydraulic fluids.

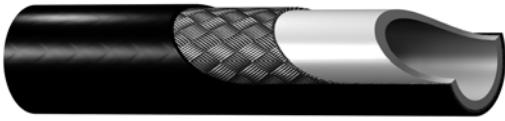
Change in length: +2% / -4 % at working pressure



High Pressure Hydraulic Hose
2040H/520N

2040H – Standard Hydraulic Hose

Performance exceeds DIN 20 022 Part 1, DNV approved



Construction:

Core Tube:

Polyester elastomer

Pressure Reinforcement:

One braided layer of high tensile steel wire

Cover:

Polyurethane, black

Applications:

High pressure service for use with petroleum or synthetic hydraulic fluids in hydraulic systems. Excellent flexibility due to the excellent bonding of the core tube, pressure reinforcement and cover. Especially suitable for lifting devices, machine tools and agricultural machinery

Fittings:

Please refer to column "Fittings". For detailed information see section K.

Also available as multiline or twin hose, see page J2.

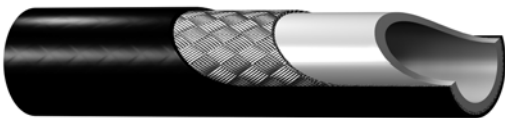
Part No. #	DN size				mm	Max. Working Pressure		Min. Burst Pressure		Min. Bend Radius	Weight kg/m	Fittings
	mm	inch	mm	inch		MPa / psi	MPa / psi					
2040H-03V10	5	-03	4.7	3/16	9.8	34.0	4,930	136.0	19,720	30	0.12	PX
2040H-04V10	6	-04	6.3	1/4	11.9	31.0	4,495	124.0	17,980	40	0.17	PX
2040H-05V10	8	-05	8.2	5/16	14.0	25.0	3,630	100.0	14,500	50	0.21	PX
2040H-06V10	10	-06	9.7	3/8	15.9	24.0	3,480	96.0	13,920	60	0.26	PX
2040H-08V10	12	-08	12.8	1/2	19.3	18.5	2,685	74.0	10,730	75	0.31	PX
2040H-10V10	16	-10	16.0	5/8	23.5	14.0	2,030	56.0	8,120	110	0.43	PX
2040H-12V10	20	-12	19.4	3/4	26.7	12.5	1,815	50.0	7,250	170	0.53	PX
2040H-16V10	25	-16	25.0	1	33.5	10.0	1,450	40.0	5,800	230	0.72	PX

Temperature range: -40°C up to +100°C for petroleum, max. 57°C for synthetic hydraulic fluids and water-based hydraulic fluids.

Change in length: +1% / -3 % at working pressure

520N – Standard Hydraulic Hose

Performance exceeds SAE 100 R8, BS 4983 Type 2, ISO 3949-2



Construction:

Core Tube:

Polyamide

Pressure Reinforcement:

One braided layer of high tensile aramid fibre

Cover:

Polyurethane, black, pinpricked

Applications:

High pressure service for use with petroleum or synthetic hydraulic fluids in hydraulic systems as well as with gases. Low volumetric expansion and small outer diameters due to the aramid fibre reinforcement.

Fittings:

Please refer to column "Fittings". For detailed information see section K.

Also available as twinline or multiline hose, see page J2.

Note: 56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

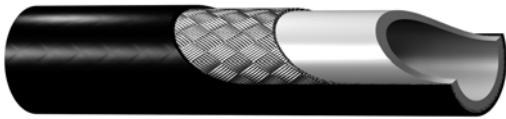
Part No. #	DN size				mm	Max. Working Pressure		Min. Burst Pressure		Min. Bend Radius	Weight kg/m	Fittings
	mm	inch	mm	inch		MPa / psi	MPa / psi					
520N-3	5	-03	4.8	3/16	10.9	34.5	5,000	138.0	20,000	38	0.07	55/56
520N-4	6	-04	6.3	1/4	13.0	34.5	5,000	138.0	20,000	51	0.10	55/56
520N-5	8	-05	7.9	5/16	14.5	31.0	4,500	124.0	18,000	64	0.12	55/56
520N-6	10	-06	9.5	3/8	16.5	27.5	4,000	110.0	16,000	64	0.12	55/56
520N-8	12	-08	12.7	1/2	20.6	24.0	3,500	96.0	14,000	102	0.20	55/56
520N-10	16	-10	15.9	5/8	23.4	19.0	2,750	76.0	11,000	152	0.26	55/56

Temperature range: -40°C up to +100°C for petroleum or synthetic hydraulic fluids.

Change in length: +/- 2% at working pressure

528N – Electrically Non-Conductive Hose

Performance exceeds SAE 100 R8, BS 4983 Type 2, ISO 3949-2



Construction:

Core Tube:
Polyamide

Pressure Reinforcement:
One braided layer of high tensile aramid fibre

Cover:
Polyurethane, orange, not pinpricked

Applications:
High pressure service for use with petroleum or synthetic hydraulic fluids in hydraulic systems as well as with gases. Low volumetric expansion and small outer diameters due to the aramid fibre reinforcement.

Fittings:
Please refer to column "Fittings". For detailed information see section K.

Part No. #	DN size mm inch				mm	Max. Working Pressure MPa / psi		Min. Burst Pressure MPa / psi		Min. Bend Radius mm	Weight kg/m	Fittings
	mm	inch	mm	inch		MPa	psi	MPa	psi			
528N-3	5	-03	4.8	3/16	10.9	34.5	5,000	138.0	20,000	38	0.07	55/56
528N-4	6	-04	6.3	1/4	13.0	34.5	5,000	138.0	20,000	51	0.10	55/56
528N-5	8	-05	7.9	5/16	14.5	31.0	4,500	124.0	18,000	64	0.12	55/56
528N-6	10	-06	9.5	3/8	16.5	27.5	4,000	110.0	16,000	64	0.12	55/56
528N-8	12	-08	12.7	1/2	20.6	24.0	3,500	96.0	14,000	102	0.20	55/56

Temperature range: -40°C up to +100°C for petroleum or synthetic hydraulic fluids.

Change in length: +/- 2% at working pressure

Insulation resistivity: according to SAE J517 (less than 50 µA leakage under 75,000 Volts per feet)

Note:
56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

580N – Standard Hydraulic Hose

Performance exceeds SAE 100 R8, BS 4983 Type 2, ISO 3949-2



Construction:

Core Tube:
Polyamide

Pressure Reinforcement:
Multiple layers of high tensile synthetic fibre

Cover:
Polyurethane, black, pinpricked

Applications:
High pressure service for use with petroleum or synthetic hydraulic fluids as well as gas applications. For systems requiring flexible lines with low weight and small outer diameters.

Fittings:
Please refer to column "Fittings". For detailed information see section K.

Also available as multiline or twin hose, see page J2.

Part No. #	DN size mm inch				mm	Max. Working Pressure MPa / psi		Min. Burst Pressure MPa / psi		Min. Bend Radius mm	Weight kg/m	Fittings
	mm	inch	mm	inch		MPa	psi	MPa	psi			
580N-4	6	-04	6.3	1/4	15.7	34.5	5,000	138.0	20,000	51	0.18	58
580N-6	10	-06	9.5	3/8	19.6	27.5	4,000	110.0	16,000	64	0.22	58
580N-8	12	-08	12.7	1/2	22.6	24.0	3,500	96.0	14,000	102	0.31	58
580N-10	16	-10	15.9	5/8	24.9	19.0	2,750	76.0	11,000	152	0.32	58
580N-12	20	-12	19.1	3/4	29.5	15.5	2,250	62.0	9,000	203	0.35	58
580N-16	25	-16	25.4	1	37.6	14.0	2,000	56.0	8,000	254	0.56	58

Temperature range: -40°C up to +100°C for petroleum or synthetic hydraulic fluids.

Change in length: +/- 2% at working pressure

High Pressure Hydraulic Hose
588N/590

588N – Electrically Non-Conductive Hose

Performance exceeds SAE 100 R8, BS 4983 Type 2, ISO 3949-2, SAE J517



Construction:

Core Tube:
Polyamide

Pressure Reinforcement:
Two braided layers of high tensile synthetic fibre

Cover:
Polyurethane, orange

Applications:

High pressure service for use with petroleum or synthetic hydraulic fluids in hydraulic systems requiring electrically non-conductive hose assemblies, e.g. in systems on utility vehicles and working platforms for high voltage line repair.

Fittings:

Please refer to column "Fittings". For detailed information see section K.

Part No. #	DN size mm inch			mm	Max. Working Pressure MPa / psi		Min. Burst Pressure MPa / psi		Min. Bend Radius mm	Weight kg/m	Fittings	
	mm	inch	mm		MPa	psi	MPa	psi				
588N-4	6	-04	6.3	1/4	15.7	34.5	5,000	138.0	20,000	51	0.18	58
588N-6	10	-06	9.5	3/8	19.6	27.5	4,000	110.0	16,000	64	0.22	58
588N-8	12	-08	12.7	1/2	22.6	24.0	3,500	96.0	14,000	102	0.31	58
588N-10	16	-10	15.9	5/8	24.9	19.0	2,750	76.0	11,000	152	0.32	58
588N-12	20	-12	19.1	3/4	29.5	15.5	2,250	62.0	9,000	203	0.35	58
588N-16	25	-16	25.4	1	37.6	14.0	2,000	56.0	8,000	254	0.56	58

Temperature range: -40°C up to +100°C for petroleum or synthetic hydraulic fluids

Change in length: +/- 2% at working pressure

Insulation resistivity: according to SAE J517 (less than 50 µA leakage under 75,000 Volts per feet)

590 – Hybrid High Pressure Hose

Performance exceeds SAE 100 R2



Construction:

Core Tube:
Polyester elastomer

Pressure Reinforcement:
One braided layer of high tensile aramid fibre and one braided layer of high tensile steel wire.

Cover:
Polyurethane, black

Applications:

High pressure service for use with petroleum, synthetic and water based hydraulic fluids. For systems with flexible hose assemblies with small bend radii and excellent aging stability.

Fittings:

Please refer to column "Fittings". For detailed information see section K.

Part No. #	DN size mm inch			mm	Max. Working Pressure MPa / psi		Min. Burst Pressure MPa / psi		Min. Bend Radius mm	Weight kg/m	Fittings	
	mm	inch	mm		MPa	psi	MPa	psi				
590-3	5	-03	4.8	3/16	10.9	34.5	5,000	138.0	20,000	38	0.15	55/56
590-4	6	-04	6.3	1/4	13.0	34.5	5,000	138.0	20,000	44	0.21	55/56
590-6	10	-06	9.5	3/8	16.3	27.5	4,000	110.0	16,000	57	0.29	55/56
590-8	12	-08	12.7	1/2	20.1	24.0	3,500	96.0	14,000	83	0.37	55/56
590-10	16	-10	15.9	5/8	24.6	21.0	3,000	84.0	12,000	152	0.57	58
590-12	20	-12	19.1	3/4	27.9	15.5	2,250	62.0	9,000	178	0.66	58
590-16	25	-16	25.4	1	36.1	14.0	2,000	56.0	8,000	203	0.88	58

Temperature range: -40°C up to +121°C for petroleum, max. 57°C for synthetic hydraulic fluids and water-based hydraulic fluids.

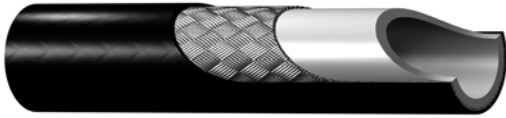
Change in length: +/- 2% at working pressure

Note:

56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

575X – Low Volumetric Expansion Hose

Constant Working Pressure



Construction:

Core Tube:
Polyamide

Pressure Reinforcement:
One or two braided layers of high tensile aramid fibre

Cover:
Special polyurethane, black

Applications:
High pressure service for use with petroleum or synthetic hydraulic fluids for offshore oil applications where low volumetric expansion is required.

Fittings:
Please refer to column "Fittings". For detailed information see section K.

Part No. #	DN size mm inch				mm	Max. Working Pressure MPa / psi		Min. Burst Pressure MPa / psi		Min. Bend Radius mm	Weight kg/m	Volumetric Expansion ml/m	Fittings
	mm	inch	mm	inch		MPa	psi	MPa	psi				
575X-3	5	-03	4.8	3/16	10.9	34.5	5,000	138.0	20,000	38	0.07	5.2	55/56
575X-4	6	-04	6.3	1/4	12.9	34.5	5,000	138.0	20,000	51	0.10	6.9	55/56
575X-6	10	-06	9.5	3/8	16.5	34.5	5,000	138.0	20,000	76	0.13	10.2	55/56
575X-8	12	-08	12.7	1/2	20.6	34.5	5,000	138.0	20,000	102	0.20	15.1	55/56

Temperature range: -40°C up to +100°C for petroleum and synthetic hydraulic fluids.

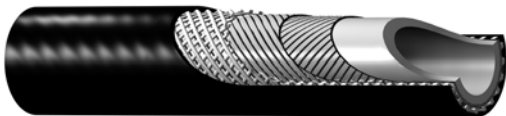
Change in length: +/- 2% at working pressure

Note:

56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

2370N/2370H – Multi Purpose Hose

Performance exceeds DIN 20 022 Part 2, TÜV/CGA/AGA approved for CNG dispense



Construction:

Core Tube:
Polyamide; alternative DN 12: polyester elastomer

Pressure Reinforcement:
Two spiral layers of high tensile steel wire, two open spiral synthetic fibre

Cover:
Polyurethane, black. Other colours available on request

Applications:
High pressure service for use with petroleum or synthetic hydraulic fluids in hydraulic systems. Especially suitable for hydraulic tools, clamps, rescue equipment.

Fittings:
RX series for hydraulic applications only.
Use NX series for paint spray and gas applications.

Part No. #	DN size mm inch				mm	Max. Working Pressure MPa / psi		Min. Burst Pressure MPa / psi		Min. Bend Radius mm	Weight kg/m	Fittings
	mm	inch	mm	inch		MPa	psi	MPa	psi			
2370N-04V10	6	-04	6.3	1/4	12.4	46.5	6,745	186.0	26,970	70	0.19	RX/NX
2370N-05V10	8	-05	8.2	5/16	14.3	35.0	5,080	140.0	20,300	100	0.25	RX/NX
2370N-06V10	10	-06	9.7	3/8	16.4	33.0	4,790	132.0	19,140	120	0.33	RX/NX
2370N-08V10	12	-08	12.8	1/2	19.6	27.5	3,990	110.0	15,950	150	0.42	RX/NX
2370H-08V10	12	-08	12.8	1/2	19.6	27.5	3,990	110.0	15,950	150	0.42	RX/NX

Temperature range: -40°C up to +100°C (short term +125°C) for petroleum or synthetic hydraulic fluids.

Change in length: +2% / -4 % at working pressure

Notes:

For CNG dispensing only factory made assemblies incl. kink guards.

Available as twin or multiple hose, see page J2.

For pinpricked hose please add „-P“, e.g. 2370N-04V10-P

2245N/2244N – High Pressure Hose

Performance exceeds SAE100R9 / SAE 100R10 / DIN 20 022 Part 2



Construction:

Core Tube:
Polyamide

Pressure Reinforcement:

Two spiral layers of high tensile steel wire, one braided layer of steel wire

Cover:

Polyurethane, black
DN 16 and above: Polyamide, black

Applications:

High pressure service for use with petroleum or synthetic hydraulic fluids, as well as applications where gases and aggressive media are involved. High kink resistance and maximum flexibility for use in compressors, clamps, hydraulic tools.

Mining applications:

2245N-04 to -16 and 2244N-20 approved by LOBA (Landesoberbergbauamt), PA outer cover with embossed marking, suitable for use with Skydrol

Part No. 2245N- . . V31

Fittings:

Please refer to column "Fittings". For detailed information see section K.

For pinpricked hose please add „-P“, e.g. 2245N-04V00-P

Part No. #	DN size				mm	Max. Working Pressure		Min. Burst Pressure		Min. Bend Radius	Weight kg/m	Fit-tings
	mm	inch	mm	inch		MPa / psi	MPa / psi	MPa / psi	MPa / psi			
2245N-04V00	6	-04	6.3	1/4	12.5	45.0	6,530	180.0	26,100	70	0.25	NX
2245N-05V00	8	-05	8.2	5/16	14.3	40.0	5,800	160.0	23,200	100	0.32	NX
2245N-06V00	10	-06	9.7	3/8	17.0	37.5	5,440	150.0	21,750	120	0.42	NX
2245N-08V00	12	-08	12.8	1/2	20.7	35.0	5,080	140.0	20,300	165	0.52	NX
2245N-10V30	16	-10	16.0	5/8	24.5	33.0	4,780	132.0	19,140	200	0.72	NX
2245N-12V30	20	-12	19.4	3/4	28.5	30.0	4,350	120.0	17,400	240	0.92	NX
2245N-16V30	25	-16	25.0	1	34.0	27.5	3,990	110.0	15,950	280	1.15	NX
2244N-20V30	32	-20	32.0	1 1/4	44.0	27.5	3,990	110.0	15,950	400	1.83	NX

Temperature range: -40°C up to +100°C (short term +125°C) for petroleum or synthetic hydraulic fluids

Approvals: DN 20 and DN 25 DNV approved

2244N: upgraded pressure reinforcement results in higher working pressures, refer to page F2

HP® – High Pressure Hose
HP8® – High Pressure Hose – Electrically Non-Conductive



Construction:

Core Tube:
Polyamide

Pressure Reinforcement:
High tensile aramid fibre braids

Cover:
HP® hose: Polyurethane, blue
HP8® hose: Polyurethane, orange

Applications:
HP® hose for maximum pressure service for use with petroleum or synthetic hydraulic fluids in hydraulic systems. Applications include hydraulic tools, test rigs and offshore oil drilling.

HP8® hose, electrically non-conductive for working platforms.
For high voltage line repair.

Fittings:

Please refer to column "Fittings". For detailed information see section K.

Hose guard:

Accessories, see page N3

Factory assembly or supplied by authorised HP® hose assembly manufacturers.

Part No. #	DN size		mm inch		mm	Max. Working Pressure		Min. Burst Pressure		Min. Bend Radius	Weight	Part No. Hose Guard Length 350 mm	Fittings
	mm	inch	MPa	psi		MPa	psi	kg/m					
HP-3	5	-03	4.8	3/16	13.2	69.0	10,000	276.0	40,000	38	0.13	HPG3-12K	HP
HP-4	6	-04	6.3	1/4	15.2	69.0	10,000	276.0	40,000	64	0.16	HPG4-12K	HP
HP-6	10	-06	9.5	3/8	18.8	55.0	8,000	220.0	32,000	76	0.23	HPG6-12K	HP
HP8-3	5	-03	4.8	3/16	13.2	69.0	10,000	276.0	40,000	38	0.13	HPG3-12K-ORG	HP
HP8-4	6	-04	6.3	1/4	15.2	69.0	10,000	276.0	40,000	64	0.16	HPG4-12K-ORG	HP
HP8-6	10	-06	9.5	3/8	18.8	55.0	8,000	220.0	32,000	76	0.23	HPG6-12K-ORG	HP

Temperature range: -40°C up to +66°C for petroleum or synthetic hydraulic fluids.

Insulation resistivity: only for HP8® according to SAE J517 (less than 50 µA leakage under 75,000 Volts per feet)



High Pressure Hydraulic Hose
Notes

F – Ultra-High Pressure Hydraulic Hose

2244N	– polyflex ® Ultra-High Pressure Hose	F2
2380N	– polyflex ® Ultra-High Pressure Hose	F3
2388N	– polyflex ® Ultra-High Pressure Hose	F3
2X80N	– polyflex ® High Pressure Hose	F4
2440D/2440N	– polyflex ® Ultra-High Pressure Hose	F5
2640D/2640N	– polyflex ® Ultra-High Pressure Hose	F6



Ultra-High Pressure Hydraulic Hose
2244N

2244N – polyflex® Ultra-High Pressure Hose

Performance exceeds SAE100R9 / SAE 100R10 / DIN 20 022 Part 2



Construction:

Core Tube:

Polyamide

Pressure Reinforcement:

Two spiral layers of high tensile steel wire, one braided layer of steel wire

Cover:

Polyurethane, black
 DN 32: Polyamide, black

Applications:

High pressure service for use with petroleum or synthetic hydraulic fluids, as well as applications where gases and aggressive media are involved. High kink resistance and maximum flexibility for use in compressors, clamps, hydraulic tools.

Fittings:

Please refer to column "Fittings". For detailed information see section K.

For pinpricked hose please add „-P“, e.g. **2244N-04V00-P**

Part No. #	DN size mm inch				mm	Max. Working Pressure MPa / psi		Min. Burst Pressure MPa / psi		Min. Bend Radius mm	Weight kg/m	Fit-tings
	4	-025	3.9	5/32		9.6	75.0	10,875	300.0			
2244N-025V00	4	-025	3.9	5/32	9.6	75.0	10,875	300.0	43,500	55	0.19	8X
2244N-06V00	10	-06	9.7	3/8	18.0	53.5	7,760	215.0	31,175	120	0.50	8X
2244N-08V10	12	-08	12.8	1/2	22.7	55.0	7,970	220.0	31,900	150	0.80	8X

Temperature range: -40°C up to +100°C (short term +125°C) for petroleum or synthetic hydraulic fluids

Approvals: DN 10 and DN 12 DNV approved

2244N-20V30: listed under 2245N (page E8)

2380N – polyflex® Ultra-High Pressure Hose

Performance exceeds SAE 100R10



Construction:

Core Tube:
Polyamide

Pressure Reinforcement:
Two spiral layers and two open spiral layers of high tensile steel wire

Cover:
Polyurethane, black
Other colours available upon request

Applications:

Ultra-high pressure service for use with petroleum or synthetic hydraulic fluids. High kink resistance and high flexibility for hydraulic tools, straightening benches, clamps.

Fittings:

Please refer to column "Fittings".
For detailed information see section K.
For pinpricked hose please add „-P“,
e.g. 2380N-04V00-P

Part No. #	DN size				mm	Max. Working Pressure		Min. Burst Pressure		Min. Bend Radius	Weight	Fit-tings
	mm	inch	mm	inch		MPa / psi	MPa / psi	MPa / psi	MPa / psi			
2380N-04V00	6	-04	6.3	1/4	13.3	70.0	10,150	280.0	40,600	70	0.32	8X
2380N-05V00	8	-05	7.9	5/16	15.7	62.5	9,625	250.0	36,250	90	0.41	8X

Temperature range: -40°C up to +100°C for petroleum or synthetic hydraulic fluids.



2388N – polyflex® Ultra-High Pressure Hose

Performance exceeds SAE 100R10



Construction:

Core Tube:
Polyamide

Pressure Reinforcement:
Two and two spiral layers of steel wire/brass plated steel wire

Cover:
Polyurethane, black
Other colours available upon request

Applications:

Ultra-high pressure service for use with petroleum or synthetic hydraulic fluids. High kink resistance and high flexibility for hydraulic tools, straightening benches, clamps.

Fittings:

Please refer to column "Fittings".
For detailed information see section K.

Part No. #	DN size				mm	Max. Working Pressure		Min. Burst Pressure		Min. Bend Radius	Weight	Fit-tings
	mm	inch	mm	inch		MPa / psi	MPa / psi	MPa / psi	MPa / psi			
2388N-04V00	6	-04	6.3	1/4	13.3	80.0	11,600	320.0	46,600	80	0.305	8X

Temperature range: -40°C up to +100°C for petroleum or synthetic hydraulic fluids.

Ultra-High Pressure Hydraulic Hose
2X80N

2X80N – polyflex® Ultra-High Pressure Hose



Construction:

Core Tube:
Polyamide

Pressure Reinforcement:
Steel wire/aramid combination

Cover:
Polyurethane, black

Applications:
Ultra-high pressure service for use with petroleum or synthetic hydraulic fluids. High kink resistance and high flexibility for hydraulic tools, straightening benches, clamps.

Fittings:
Please refer to column "Fittings". For detailed information see section K.

For pinpricked hose please add „-P“,
 e.g. **2X80N-04V10-P**

Part No. #	DN size				mm	Max. Working Pressure		Min. Burst Pressure		Min. Bend Radius	Weight	Fit-tings
	mm	inch	mm	inch		MPa / psi	MPa / psi	MPa / psi	kg/m			
2X80N-04V10	6	-04	6.3	1/4	13.4	72	10,440	288	41,760	38	0.237	8X
2X80N-06V10	10	-06	9.8	3/8	18.6	70	10,150	280	40,600	70	0.540	LX
2X80N-12V10	20	-12	19.1	3/4	30.0	45	6,525	180	26,100	100	1.080	LX

Temperature range: -40°C up to +100°C

2440D/2440N – *polyflex*[®] Ultra-High Pressure Hose



Construction:

Core Tube:

DN 4-8: Polyoxymethylene,
DN 10-25: Polyamide

Pressure Reinforcement:

Four spiral layers of high
tensile steel wire

Cover:

Polyamide, DN 4-8, blue,
DN 10-25, black

Applications:

For use with petroleum or
synthetic hydraulic fluids, gas
and chemical fluids. Espe-
cially suitable for hydraulic
pre-tensioning equipment,
test rigs, as well as in offshore
oil applications.

Fittings:

Please refer to column
"Fittings". For detailed
information see section K.

**Available only as assem-
blies made by the factory
or by authorized Parker
distributors.**

Notes:

For pinpricked hose please add „-P“, e.g. **2440D-03V32-P**

Not for water jetting applications

(for these applications please refer to catalogue 4462-UK)

Part No. #	DN size mm inch				mm	Max. Working Pressure MPa / psi		Min. Burst Pressure MPa / psi		Min. Bend Radius mm	Weight kg/m	Fittings
	mm	inch	mm	inch		MPa	psi	MPa	psi			
2440D-025V32	4	-025	3.9	5/32	10.4	220.0	31,900	550.0	79,750	100	0.21	LX
2440D-03V32	5	-03	4.7	3/16	11.5	180.0	26,100	450.0	65,250	130	0.28	LX
2440D-04V32	6	-04	6.3	1/4	12.5	164.0	23,780	410.0	59,450	155	0.32	LX
2440D-05V32	8	-05	8.0	5/16	15.1	150.0	21,750	375.0	54,370	175	0.44	LX
2440N-06V30	10	-06	9.7	3/8	19.4	140.0	20,300	350.0	50,750	190	0.70	LX
2440N-08V30	12	-08	12.8	1/2	22.5	130.0	18,850	325.0	47,120	200	0.94	LX
2440N-12V30	20	-12	19.4	3/4	30.0	100.0	14,500	250.0	36,250	250	1.39	LX
2440N-16V30	25	-16	25.0	1	37.0	90.0	13,050	225.0	32,625	300	1.90	LX

Temperature range: -40°C up to +100°C for petroleum or synthetic hydraulic fluids.

Working pressure:

For the above hose type there are no international standards available yet. The permissible working pressures are based on a safety factor of 1:2.5 (applicable to liquids)

F

Ultra-High Pressure Hydraulic Hose
2640D/2640N

2640D/2640N – *polyflex*[®] Ultra-High Pressure Hose



Construction:

Core Tube:

DN 4-8: Polyoxymethylene,
DN 12-20: Polyamide

Pressure Reinforcement:

Six spiral layers of high
tensile steel wire

Cover:

Polyamide, blue

Applications:

For use with petroleum or
synthetic hydraulic fluids, and
chemical fluids. Especially
suitable for hydraulic pre-
tensioning equipment, test
rigs, as well as in offshore oil
applications.

Fittings:

Please refer to column
“Fittings”. For detailed
information see section K.

**Available only as assemb-
lies made by the factory
or by authorized Parker
distributors.**

Part No. #	DN size mm inch				mm	Max. Working Pressure MPa / psi		Min. Burst Pressure MPa / psi		Min. Bend Radius mm	Weight kg/m	Fit- tings
	mm	inch	mm	inch		MPa	psi	MPa	psi			
2640D-025V32	4	-025	3.9	5/32	11.5	280.0	40,600	700.0	101,500	140	0.29	5X
2640D-03V32	5	-03	4.7	3/16	13.0	250.0	36,250	625.0	90,620	175	0.41	5X
2640D-05V32	8	-05	8.0	5/16	16.9	210.0	30,450	525.0	76,120	225	0.68	5X
2640N-08V32	12	-08	12.8	1/2	24.5	180.0	26,100	450.0	65,250	290	1.36	5X
2640N-12V32	20	-12	19.4	3/4	33.0	140.0	20,300	350.0	50,750	350	2.10	5X

Temperature range: -40°C up to +100°C for petroleum or synthetic hydraulic fluids.

Working pressure:

For the above hose type there are no international standards available yet. The permissible working pressures are based on a safety factor of 1:2.5 (applicable to liquids).

Notes:

For pinpricked hose please add „-P“, e.g. 2440D-03V32-P

Not for water jetting applications

(for these applications please refer to catalogue 4462-UK)

G – PTFE/FEP Hose

919/919B – PTFE-Hose	G2
929/929B – Heavy Wall PTFE-Hose	G2
919U – PTFE-Hose With PU Cover	G3
2030T – PTFE-Hose	G3
2033T – PTFE-Hose	G4
939B – PTFE-Hose – Convolute	G4
2380F – FEP High Pressure Hose	G5
2246F – FEP High Pressure Hose	G5
2020T – Small Bore PTFE Hose	G6



919/919B – PTFE Hose

Performance exceeds SAE 100 R14



Construction:

Core Tube:

Polytetrafluoroethylene

Pressure Reinforcement:

One braided layer of stainless steel wire.

Applications:

Medium pressure service for use with hydraulic fluids at high temperatures, steam, and aggressive chemicals in the chemical industry. Especially suitable for the food industry, FDA approved (according to CFR21 Part 177)

Fittings:

Please refer to column "Fittings". For detailed information see section K.

Part No. #	mm inch		mm inch		Std. TFE Wall Thickness mm	Max. Working Pressure MPa / psi		Min. Burst Pressure MPa / psi		Min. Bend Radius mm	Weight kg/m	Fit-tings
	mm	inch	mm	inch		MPa	psi	MPa	psi			
919-3	3.2	1/8	6.4	1/4	0.76	21.0	3,000	83.0	12,000	38	0.06	91
919-4	4.8	3/16	7.9	5/16	0.76	21.0	3,000	83.0	12,000	51	0.09	91N
919/919B-5	6.4	1/4	9.5	3/8	0.76	21.0	3,000	83.0	12,000	76	0.13	91N
919/919B-6	7.9	5/16	11.1	7/16	0.76	17.5	2,500	69.0	10,000	101	0.15	91N
919/919B-8	10.3	13/32	13.5	17/32	0.76	14.0	2,000	56.0	8,000	127	0.19	91N
919-10	12.7	1/2	15.9	5/8	0.76	10.3	1,500	41.5	6,000	165	0.22	91N
919-12	15.9	5/8	19.1	3/4	0.76	8.3	1,200	34.5	5,000	191	0.28	91N
919-16	22.2	7/8	26.2	1 1/32	0.89	6.9	1,000	27.5	4,000	229	0.40	91N
919-20	28.6	1 1/8	32.5	1 9/32	1.07	4.3	625	17.2	2,500	406	0.58	91

Note:

919B for use in explosion protected areas with black, static dissipative core tube

Temperature range: -50°C up to +150°C

+230°C at up to 2 MPa working pressure

+200°C with steam at up to 1.4 MPa working pressure.

Change in length: +2% / -4% at working pressure

929/929B – Heavy Wall PTFE Hose



Construction:

Core Tube:

Polytetrafluoroethylene with heavy wall thickness

Pressure Reinforcement:

One braided layer of stainless steel wire

Applications:

Medium pressure service for use with hydraulic fluids at high temperatures, steam, and aggressive chemicals in the chemical industry where **low permeation is essential**. Especially suitable for the food industry, FDA approved (according to CFR21 Part 177).

Fittings:

Please refer to column "Fittings". For detailed information see section K.

Part No. #	mm inch		mm inch		Std. TFE Wall Thickness mm	Max. Working Pressure MPa / psi		Min. Burst Pressure MPa / psi		Min. Bend Radius mm	Weight kg/m	Fit-tings
	mm	inch	mm	inch		MPa	psi	MPa	psi			
929/929B-4	4.8	3/16	7.9	5/16	1.02	21.0	3,000	83.0	12,000	38	0.12	91N
929/929B-6	7.9	5/16	11.1	7/16	1.02	17.5	2,500	69.0	10,000	89	0.18	91N
929/929B-8	10.3	13/32	14.3	9/16	1.07	14.0	2,000	56.0	8,000	114	0.23	91N
929/929B-12	15.9	5/8	19.1	3/4	1.22	8.4	1,200	33.6	4,800	165	0.28	91N
929/929B-16	22.2	7/8	28.6	1 1/8	1.22	8.8	1,250	35.0	5,000	188	0.73	91N

Temperature range: -50°C up to +150°C

+230°C at up to 2 MPa working pressure

+200°C with steam at up to 1.4 MPa working pressure.

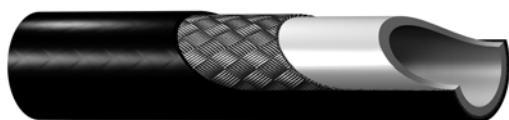
Change in length: +2% / -4% at working pressure

Note:

929B for use in explosion protected areas with black, static dissipative core tube

919U – PTFE Hose With PU Cover

Performance exceeds SAE 100 R14



Construction:

Core Tube:

Polytetrafluoroethylene

Pressure Reinforcement:

One braided layer of stainless steel wire

Cover:

Polyurethane, black

Applications:

Medium pressure service for use with hydraulic fluids at high temperatures and aggressive chemicals in the chemical industry.

Especially suitable for the food industry, FDA approved (according to CFR21 Part 177).

Fittings:

Please refer to column "Fittings". For detailed information see section K.

Note:

Cover must be skived prior to fitting attachment.

Part No. #	mm inch		mm inch		Std. TFE Wall Thickness mm	Max. Working Pressure MPa / psi		Min. Burst Pressure MPa / psi		Min. Bend Radius mm	Weight kg/m	Fit-tings
	mm	inch	mm	inch		MPa	psi	MPa	psi			
919U-4	4.8	3/16	9.5	3/8	0.76	21.0	3,000	83.0	12,000	51	0.12	91N
919U-6	7.9	5/16	12.7	1/2	0.76	17.5	2,500	69.0	10,000	101	0.20	91N
919U-8	10.3	13/32	15.9	5/8	0.76	14.0	2,000	56.0	8,000	127	0.22	91N
919U-12	15.9	5/8	21.4	27/32	0.76	8.3	1,200	34.5	5,000	191	0.33	91N
919U-16	22.2	7/8	27.0	1 1/16	0.89	6.9	1,000	27.5	4,000	229	0.47	91N

Temperature range: -40°C up to +135°C

Change in length: +2% / -4% at working pressure

Vacuum Service: 95 kPa (13.8 psi) sizes -4 through -10

40 kPa (5.8 psi) size -12

47 kPa (6.8 psi) size -16

2030T – PTFE Hose



Construction:

Core Tube:

Polytetrafluoroethylene

Pressure Reinforcement:

One braided layer of stainless steel wire

Applications:

Medium pressure service for use with hydraulic fluids at high temperatures as well as aggressive chemical fluids, surface treatment, 2-component compounds.

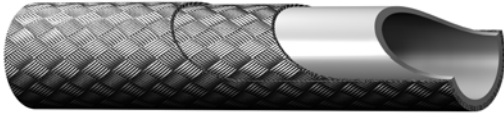
Fittings:

Please refer to column "Fittings". For detailed information see section K.

Part No. #	DN size mm inch		mm		Max. Working Pressure MPa / psi	Min. Burst Pressure MPa / psi		Min. Bend Radius mm	Weight kg/m	Fit-tings		
	mm	inch	mm	inch		MPa	psi				MPa	psi
2030T-03V70	5	-03	4.7	3/16	7.8	27.5	3,990	110.0	15,950	50	0.09	YX
2030T-04V70	6	-04	6.3	1/4	9.5	24.0	3,480	96.0	13,920	75	0.13	YX
2030T-05V70	8	-05	8.2	5/16	11.5	20.0	2,900	80.0	11,600	100	0.17	YX
2030T-06V70	10	-06	9.7	3/8	13.3	17.5	2,540	70.0	10,150	120	0.19	YX
2030T-08V70	12	-08	12.8	1/2	16.7	15.0	2,180	60.0	8,700	135	0.29	YX
2030T-10V70	16	-10	16.0	5/8	20.0	12.5	1,810	50.0	7,250	160	0.34	YX
2030T-12V70	20	-12	19.4	3/4	23.5	10.0	1,450	40.0	5,800	200	0.41	YX
2030T-16V70	25	-16	25.0	1	29.0	8.0	1,160	32.0	4,640	250	0.51	YX

Temperature range: -50°C up to +150°C permanent temperature
+230°C for working pressures up to 2 MPa

2033T – PTFE Hose



Construction:

Core Tube:
Polytetrafluorethylene

Pressure Reinforcement:
Two braided layers of stainless steel wire

Applications:

Medium pressure service for use with hydraulic fluids at high temperatures as well as aggressive chemical fluids, surface treatment, 2-component compounds.

Fittings:

Please refer to column "Fittings". For detailed information see section K.

Part No. #	DN size				mm	Max. Working Pressure		Min. Burst Pressure		Min. Bend Radius	Weight	Fit-tings
	mm	inch	mm	inch		MPa / psi	MPa / psi	MPa / psi	MPa / psi			
2033T-04V70	6	-04	6.3	1/4	11.0	27.5	3,990	110.0	15,950	75	0.23	PX
2033T-05V70	8	-05	8.2	5/16	13.2	25.0	3,630	100.0	14,500	100	0.26	PX
2033T-06V70	10	-06	9.7	3/8	15.0	22.5	3,260	90.0	13,050	120	0.34	PX
2033T-08V70	12	-08	12.8	1/2	18.8	20.0	2,900	80.0	11,600	135	0.47	PX
2033T-10V70	16	-10	16.0	5/8	21.5	17.5	2,540	70.0	10,150	160	0.53	YX
2033T-12V70	20	-12	19.4	3/4	25.5	15.0	2,180	60.0	8,700	200	0.69	YX
2033T-16V70	25	-16	25.0	1	31.0	11.0	1,560	44.0	6,380	250	0.81	YX

Temperature range: -50°C up to +150°C permanent temperature
+230°C for working pressures up to 2 MPa

939/939B – PTFE Hose – Convuluted



Construction:

Core Tube:
Polytetrafluoroethylene,
939B: conductive

Pressure Reinforcement:
One braided layer of stainless steel wire

Applications:

Medium pressure service for use with hydraulic fluids at high temperatures and aggressive chemicals in the chemical pulp and paper industry, when small bend radii are required. Not recommended for steam applications.

Fittings:

Please refer to column "Fittings". For detailed information see section K.

Part No. #	DN size				mm	Max. Working Pressure		Min. Burst Pressure		Min. Bend Radius	Weight	Fit-tings
	mm	inch	mm	inch		MPa / psi	MPa / psi	MPa / psi	MPa / psi			
939/939B-4	6	-04	6.3	1/4	11.95	14.0	2,000	56.0	8,000	32	0.12	93N
939/939B-6	10	-06	9.5	3/8	15.00	10.3	1,500	41.5	6,000	57	0.18	93N
939/939B-8	12	-08	12.7	1/2	20.05	9.5	1,350	37.5	5,400	73	0.31	93N
939/939B-10	16	-10	15.9	5/8	22.35	6.9	1,000	27.5	4,000	76	0.36	93N
939/939B-12	20	-12	19.1	3/4	27.65	7.5	1,100	30.5	4,400	95	0.47	93N
939/939B-16	25	-16	25.4	1	33.80	6.9	1,000	27.5	4,000	127	0.67	93N
939/939B-20	32	-20	31.8	1 1/4	44.45	6.9	1,000	27.5	4,000	159	1.04	93N
939/939B-24	40	-24	38.1	1 1/2	52.05	5.0	750	21.0	3,000	191	1.18	93N
939/939B-32	50	-32	50.8	2	65.00	1.7	250	6.9	1,000	254	1.50	93N

Temperature range: -50°C up to +150°C

Factory made assemblies only for -4 and -6

2380F – FEP High Pressure Hose



Construction:

Core Tube:

Fluorethylenpropylene

Pressure Reinforcement:

Two spiral layers and two open spiral layers of high tensile steel wire

Cover:

Polyurethane, grey

Applications:

Glue applications in the automotive industry and material lines for temperatures below +80°C. Gas applications with short term high temperature influences due to flow rates.

Fittings:

Please refer to column "Fittings". For detailed information see section K.

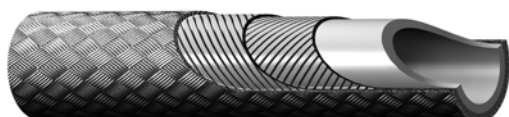
For pinpricked hose please add „-P“, e.g. 2380F-04V07-P

Part No. #	DN size mm inch				mm	Max. Working Pressure MPa / psi		Min. Burst Pressure MPa / psi		Min. Bend Radius mm	Weight kg/m	Fit-tings
	6	-04	6.3	1/4		12.6	41.0	6,020	164.0			
2380F-04V07	6	-04	6.3	1/4	12.6	41.0	6,020	164.0	23,930	60	0.26	NX
2380F-05V07	8	-05	8.2	5/16	14.3	37.5	5,440	150.0	21,750	85	0.35	NX
2380F-06V07	10	-06	9.7	3/8	17.0	34.0	4,930	136.0	19,580	110	0.41	NX
2380F-08V07	12	-08	12.8	1/2	20.5	32.5	4,710	130.0	18,710	140	0.58	NX
2380F-10V07	16	-10	16.0	5/8	24.5	30.0	4,350	120.0	17,400	175	0.75	NX
2380F-12V07	20	-12	19.4	3/4	28.5	26.5	3,840	106.0	15,230	205	0.96	NX
2380F-16V07	25	-16	25.0	1	34.0	21.0	3,050	84.0	12,180	240	1.28	NX

Temperature range: -40°C up to +80°C

Available only as assemblies made by the factory or by authorized Parker distributors.

2246F – FEP High Pressure Hose



Construction:

Core Tube:

Fluorethylenpropylene

Pressure Reinforcement:

Two spiral layers and one braided layer of high tensile steel wire

Applications:

Hotmelt applications in the automotive industry, suitable for additional heating elements.

Fittings:

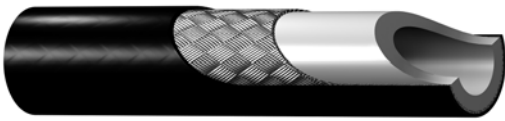
Please refer to column "Fittings". For detailed information see section K.

Available only as assemblies made by the factory or by authorized Parker distributors.

Part No. #	DN size mm inch				mm	Max. Working Pressure MPa / psi		Min. Burst Pressure MPa / psi		Min. Bend Radius mm	Weight kg/m	Fit-tings
	6	-04	6.3	1/4		11.4	55.0	8,075	220.0			
2246F-04V70	6	-04	6.3	1/4	11.4	55.0	8,075	220.0	32,100	60	0.26	NX
2246F-05V70	8	-05	8.2	5/16	13.5	37.5	5,440	150.0	21,750	85	0.33	NX
2246F-06V70	10	-06	9.7	3/8	16.0	34.0	4,930	136.0	19,580	110	0.35	NX
2246F-08V70	12	-08	12.8	1/2	18.5	32.5	4,710	130.0	18,710	140	0.53	NX
2246F-10V70	16	-10	16.0	5/8	22.5	30.0	4,350	120.0	17,400	175	0.70	NX
2246F-12V70	20	-12	19.4	3/4	27.0	26.5	3,840	106.0	15,230	205	0.92	NX
2246F-16V70	25	-16	25.0	1	32.5	21.0	3,050	84.0	12,180	240	1.18	NX

Temperature range: -50°C up to +150°C

2020T – Small Bore PTFE Hose



Construction:

Core Tube:

Polytetrafluorethylene

Pressure Reinforcement:

One braided layer of high tensile synthetic fibre

Cover:

Polyamide, blue

Applications:

High pressure service for use with aggressive media. Suitable for feed lines in glueing/2-component applications.

Fittings:

Please refer to column "Fittings". For detailed information see section K.

Part No. #	DN size mm inch				mm	Max. Working Pressure* MPa / psi		Min. Burst Pressure MPa / psi		Min. Bend Radius mm	Weight kg/m	Fit-tings
	2	-012	2.0	5/64		63	9,100	190	27550			
2020T-012V32	2	-012	2.0	5/64	4.9	63	9,100	190	27550	20	0.017	EX

Temperature range: -40°C up to +100°C for petroleum or synthetic hydraulic fluids.

* Safety factor reduced for diagnostic applications

For pinpricked hose please add „-P“, e.g. 2020T-012V32-P

H – Airless Paint Spray Hose

Airless Paint Spray Applications – General Statements	H2
CPX – Paint Spray Hose	H3
2040N – Medium Pressure Hose	H3
2370N – High Pressure Hose	H4
2380N/2244N – Ultra High Pressure Hose	H4
2030T – PTFE Hose	H5
2033T – PTFE Hose	H5



Airless Paint Spray Applications – General Statements

- **Hose Assembly:**

Hoses for Airless Paint Spray applications require a specific assembly procedure. It is imperative to have assembly training by Parker on the individual product.

The hose assembly must be silicone-free as silicone interferes with the paint spray quality. This requirement includes all the components and the testing media.

For each hose type specific Parker hose assembly and testing instructions have to be applied.

- **Conductivity:**

The hose assemblies must be conductive in order to dissipate the electrostatic charge. The conductivity of the hose assembly must be ensured and proven (100% testing) according to the Parker specification.

CPX – Paint Spray Hose

electrically conductive – high volumetric expansion – light weight



Construction:

Core Tube:
Polyamide

Pressure Reinforcement:
Two braided layers of high tensile synthetic fibre

Cover:
Polyurethane

Applications:

Mobile airless paintspray with electrically driven power units where high volumetric expansion is required.

Fittings:

Please refer to column "Fittings". For detailed information see section K.

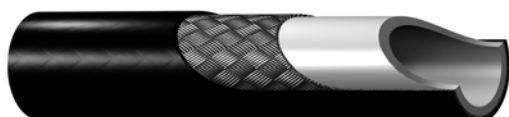
Part No. #	DN size mm inch				mm	Max. Working Pressure MPa / psi		Min. Burst Pressure MPa / psi		Min. Bend Radius mm	Weight kg/m	Fittings
	6	-04	6.3	1/4		27.0	3,915	90.0	13,080			
CPX-4	6	-04	6.3	1/4	12.95	27.0	3,915	90.0	13,080	60	0.104	56

Temperature range: -20°C up to +80°C

Change in length: +/-2% at working pressure

2040N – Medium Pressure Hose

Performance exceeds DIN 20 022 Part 1, DNV approved



Construction:

Core Tube:
Polyamide

Pressure Reinforcement:
One braided layer of high tensile steel wire

Cover:
Polyurethane, black

Applications:

Medium pressure paint spray applications. Also available with welded-on air tube (refer to section L, TPU tubing).

Fittings:

Please refer to column "Fittings". For detailed information see section K.

Note:

Sizes -03, -04 and -06 also available in blue colour, change Part No. to: 2040N-03V02, 2040N-04V02 or 2040N-06V02, resp.

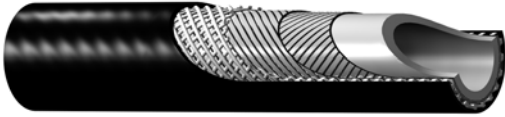
Part No. #	DN size mm inch				mm	Max. Working Pressure MPa / psi		Min. Burst Pressure MPa / psi		Min. Bend Radius mm	Weight kg/m	Fittings
	3	-02	3.2	1/8		7.0	35.0	5,075	140.0			
2040N-02V00	3	-02	3.2	1/8	7.0	35.0	5,075	140.0	20,300	30	0.07	PX
2040N-03V00	5	-03	4.7	3/16	9.8	34.0	4,930	136.0	19,720	30	0.11	PX
2040N-04V00	6	-04	6.3	1/4	11.9	31.0	4,495	124.0	17,980	40	0.16	PX
2040N-05V00	8	-05	8.2	5/16	14.0	25.0	3,630	100.0	14,500	50	0.21	PX
2040N-06V00	10	-06	9.7	3/8	15.9	24.0	3,480	96.0	13,920	60	0.24	PX
2040N-08V00	12	-08	12.8	1/2	19.3	18.5	2,680	74.0	10,730	75	0.29	PX
2040N-10V00	16	-10	16.0	5/8	23.5	14.0	2,030	56.0	8,120	110	0.39	PX
2040N-12V00	20	-12	19.4	3/4	26.7	12.5	1,810	50.0	7,250	170	0.50	PX
2040N-16V00	25	-16	25.0	1	33.5	10.0	1,450	40.0	5,800	230	0.60	PX

Temperature range: -40°C up to +80°C

Change in length: +2% / -4 % at working pressure

2370N – High Pressure Hose

Performance exceeds DIN 20 022 Part 2



Construction:

Core Tube:

Polyamide

Pressure Reinforcement:

Two spiral layers of high tensile steel wire, two open spiral synthetic fibre

Cover:

Polyurethane, black.

Applications:

High pressure paint spray applications.

Fittings:

Please refer to column "Fittings". For detailed information see section K.

Part No. #	DN size mm inch				mm	Max. Working Pressure MPa / psi		Min. Burst Pressure MPa / psi		Min. Bend Radius mm	Weight kg/m	Fit-tings
	6	-04	6.3	1/4		12.4	46.5	6,745	186.0			
2370N-04V10	6	-04	6.3	1/4	12.4	46.5	6,745	186.0	26,970	70	0.19	NX
2370N-05V10	8	-05	8.2	5/16	14.3	35.0	5,080	140.0	20,300	100	0.25	NX
2370N-06V10	10	-06	9.7	3/8	16.4	33.0	4,790	132.0	19,140	120	0.33	NX
2370N-08V10	12	-08	12.8	1/2	19.6	27.5	3,990	110.0	15,950	150	0.42	NX

Temperature range: -40°C up to +80°C

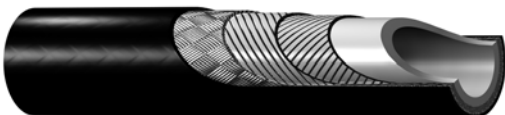
Change in length: +2% / -4 % at working pressure

Note:

Sizes -04 and -06 also available in blue colour;
change Part No. to: **2370N-04V02**
2370N-06V02

2380N/2244N – Ultra-High Pressure Hose

Performance exceeds SAE100R9 / SAE 100R10 / DIN 20 022 Part 2



Construction:

Core Tube:

Polyamide

Pressure Reinforcement:

2380N:

Two spiral layers and two open spiral layers of high tensile steel wire

2244N:

Two spiral layers of high tensile steel wire, one braided layer of steel wire

Cover:

Polyurethane, black

Applications:

High pressure paint spray applications. High kink resistance combined with superior flexibility.

Fittings:

Please refer to column "Fittings". For detailed information see section K.

Part No. #	DN size mm inch				mm	Max. Working Pressure MPa / psi		Min. Burst Pressure MPa / psi		Min. Bend Radius mm	Weight kg/m	Fit-tings
	6	-04	6.3	1/4		13.3	70.0	10,150	280.0			
2380N-04V00	6	-04	6.3	1/4	13.3	70.0	10,150	280.0	40,600	70	0.32	8X
2244N-06V00	10	-06	9.7	3/8	18.0	53.5	7,760	215.0	31,175	120	0.50	8X
2244N-08V10	12	-08	12.8	1/2	22.7	55.0	7,970	220.0	31,900	150	0.80	8X

Temperature range: -40°C up to +80°C

2030T – PTFE Hose



Construction:

Core Tube:

Polytetrafluorethylene

Pressure Reinforcement:

One braided layer of stainless steel wire

Applications:

Medium pressure service for use at high temperatures as well as aggressive chemical fluids, surface treatment, 2-component compounds.

Fittings:

Please refer to column "Fittings". For detailed information see section K.

Part No. #	DN size mm inch				mm	Max. Working Pressure MPa / psi		Min. Burst Pressure MPa / psi		Min. Bend Radius mm	Weight kg/m	Fit-tings
	mm	inch	mm	inch		MPa	psi	MPa	psi			
2030T-03V70	5	-03	4.7	3/16	7.8	27.5	3,990	110.0	15,950	50	0.09	YX
2030T-04V70	6	-04	6.3	1/4	9.5	24.0	3,480	96.0	13,920	75	0.13	YX
2030T-05V70	8	-05	8.2	5/16	11.5	20.0	2,900	80.0	11,600	100	0.17	YX
2030T-06V70	10	-06	9.7	3/8	13.3	17.5	2,540	70.0	10,150	120	0.19	YX
2030T-08V70	12	-08	12.8	1/2	16.7	15.0	2,180	60.0	8,700	135	0.29	YX
2030T-10V70	16	-10	16.0	5/8	20.0	12.5	1,810	50.0	7,250	160	0.34	YX
2030T-12V70	20	-12	19.4	3/4	23.5	10.0	1,450	40.0	5,800	200	0.41	YX
2030T-16V70	25	-16	25.0	1	29.0	8.0	1,160	32.0	4,640	250	0.51	YX

Temperature range: -50°C up to +150°C permanent temperature
+230°C for working pressures up to 2 MPa

2033T – PTFE Hose



Construction:

Core Tube:

Polytetrafluorethylene

Pressure Reinforcement:

Two braided layers of stainless steel wire

Applications:

Medium pressure service for use at high temperatures as well as aggressive chemical fluids, surface treatment, 2-component compounds.

Fittings:

Please refer to column "Fittings". For detailed information see section K.

Part No. #	DN size mm inch				mm	Max. Working Pressure MPa / psi		Min. Burst Pressure MPa / psi		Min. Bend Radius mm	Weight kg/m	Fit-tings
	mm	inch	mm	inch		MPa	psi	MPa	psi			
2033T-04V70	6	-04	6.3	1/4	11.0	27.5	3,990	110.0	15,950	75	0.23	PX
2033T-05V70	8	-05	8.2	5/16	13.2	25.0	3,630	100.0	14,500	100	0.26	PX
2033T-06V70	10	-06	9.7	3/8	15.0	22.5	3,260	90.0	13,050	120	0.34	PX
2033T-08V70	12	-08	12.8	1/2	18.8	20.0	2,900	80.0	11,600	135	0.47	PX
2033T-10V70	16	-10	16.0	5/8	21.5	17.5	2,540	70.0	10,150	160	0.53	YX
2033T-12V70	20	-12	19.4	3/4	25.5	15.0	2,180	60.0	8,700	200	0.69	YX
2033T-16V70	25	-16	25.0	1	31.0	11.0	1,560	44.0	6,380	250	0.81	YX

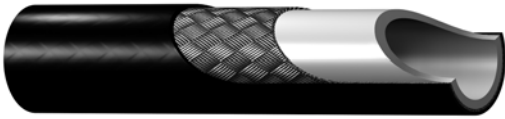
Temperature range: -50°C up to +150°C permanent temperature
+230°C for working pressures up to 2 MPa

I – Gas Hose

2040N	– High Pressure Gas Dispensing Hose	12
CNG	– Compressed Natural Gas Dispense Hose	13
2370N/2370H	– Multi Purpose Hose	14



2040N – High Pressure Gas Dispensing Hose



Construction:

Core Tube:

Polyamide

Pressure Reinforcement:

One braided layer of high tensile steel wire

Cover:

Polyurethane, pinpricked

2040N-04V74: black

2040N-04V78: grey

Applications:

Gas dispensing hose

Fittings:

Please refer to column "Fittings". For detailed information see section K.

Part No. #	DN size				mm	Max. Working Pressure		Min. Burst Pressure		Min. Bend Radius	Weight	Fittings
	mm	inch	mm	inch		MPa	psi	MPa	psi			
2040N-04V74	6	-04	6.3	1/4	11.9	31.0	4,495	124.0	17,980	40	0.16	PX
2040N-04V74	6	-04	6.3	1/4	11.9	31.0	4,495	124.0	17,980	40	0.16	PX

Temperature range: -40 °C up to +100 °C

Change in length: ± %

CNG – Compressed Natural Gas Dispense Hose

Conforms to NFPA 52, AGA 1-93 and AGA/CGA, ANSI Standards 4.2/12.52



Construction:

Core Tube:

Electrically conductive polymer

Pressure Reinforcement:

Two or more braided layers of high tensile synthetic fibre

Cover:

Polyurethane, red, pinpricked

Applications:

Refueling hose specially designed for conveying compressed natural gas. High-strength conductive polymer core tube formulated to dissipate static electrical buildup. Thick urethane cover for abrasion and wear resistance.

Fittings:

Please refer to column "Fittings". For detailed information see section K. Twin-line constructions for return lines available. Factory assembly only.

Part No. #	DN size mm inch				mm	Max. Working Pressure MPa / psi		Min. Burst Pressure MPa / psi		Min. Bend Radius mm	Weight kg/m	Fittings
	mm	mm	inch	inch		MPa	psi	MPa	psi			
5CNG-3	5	-03	4.8	3/16	10.9	34.5	5,000	137.9	20,000	38	0.07	55
5CNG-4	6	-04	6.3	1/4	13.0	34.5	5,000	137.9	20,000	51	0.16	58
5CNG-6	10	-06	9.5	3/8	16.5	34.4	5,000	137.9	20,000	76	0.25	58
5CNG-8	12	-08	12.7	1/2	20.6	34.5	5,000	137.9	20,000	102	0.31	58

Temperature range: -40°C up to +82°C

Note:

All hose assemblies must be proof tested and electrically tested per NFPA 52. Each CNG kit includes a warning tag and thermoplastic hose guards. (Refer to CNG Hose Assembly Instructions (Bulletin No. 4660-CNG-PDF-2)). Wire spring guards required for AGA certification in CNG dispenser applications except 5CNG-12, 5CNG-16. See section N – Accessories in this catalog for special PSG wire spring guards.

Not for use in airless paint spray applications.

Note:

56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

2370N/2370H – Multi Purpose Hose

Performance exceeds DIN 20 022 Part 2, TÜV/CGA/AGA approved
for CNG dispense



Construction:

Core Tube:

Polyamide; alternative
DN 12: polyester elastomer

Pressure Reinforcement:

Two spiral layers of high tensile
steel wire, two open spiral
synthetic fibre

Cover:

Polyurethane, black,
pinpricked.
Other colours available
on request

Applications:

CNG dispensing hose

Fittings:

Please refer to column
"Fittings". For detailed
information see section K.

Part No. #	DN size mm inch				mm	Max. Working Pressure MPa / psi		Min. Burst Pressure MPa / psi		Min. Bend Radius mm	Weight kg/m	Fit-tings
	6	8	10	12		MPa	psi	MPa	psi			
2370N-04V10-P	6	-04	6.3	1/4	12.4	46.5	6,745	186.0	26,970	70	0.19	NX
2370N-05V10-P	8	-05	8.2	5/16	14.3	35.0	5,080	140.0	20,300	100	0.25	NX
2370N-06V10-P	10	-06	9.7	3/8	16.4	33.0	4,790	132.0	19,140	120	0.33	NX
2370N-08V10-P	12	-08	12.8	1/2	19.6	27.5	3,990	110.0	15,950	150	0.42	NX
2370H-08V10-P	12	-08	12.8	1/2	19.6	27.5	3,990	110.0	15,950	150	0.42	NX

Temperature range: -40°C up to +100°C (short term +125°C) for petroleum or synthetic hydraulic fluids.

Change in length: +2% / -4 % at working pressure

Notes:

For CNG dispense only factory made assemblies incl. kink guards.

Available as twin or multiple hose, see page J2.

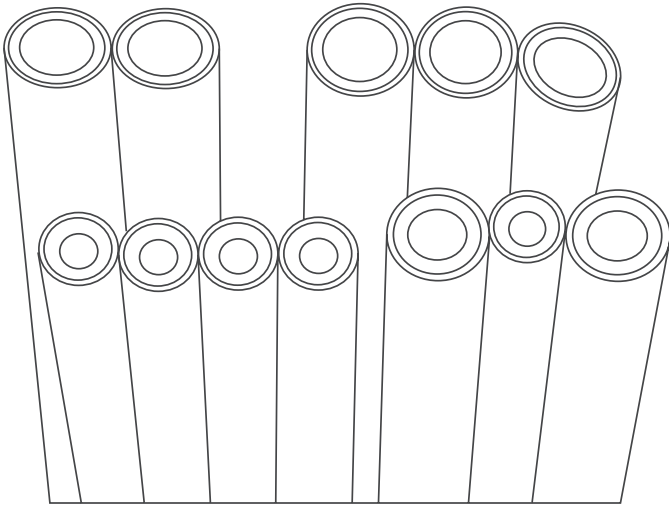
J – Twinline/Multiline Hose

Twinline/Multiline Hose	J2
Twinline/Multiline Hose Separation Instructions	J3

J

Twinline and Multiline Hose

Twinline and multiline hose can be joined using various combinations of hose sizes and types. Twinline or multiline hose ensure easier installation in applications such as fork-lift trucks, aerial lifts and hydraulic cranes.



For separating multiline hose and the appropriate tools see the Technical Information section on page J3.

The following hose types are available in twinline or multiline configuration:

540N	2040H
550H	520N
1202LT	580N
55LT	2370N
	2370H

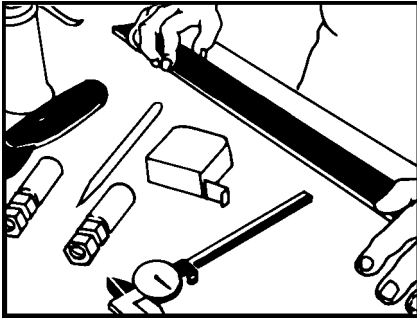
Other hose types on request.

Examples:

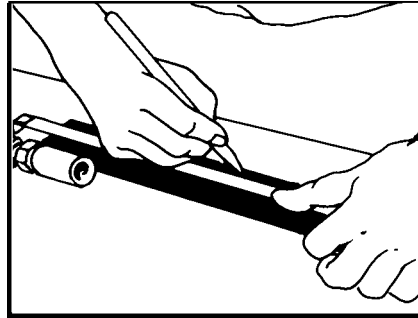
Part No. #	Part No. for Twin Hose #
2040H-04V10	2040H-04-04V10V10
2040H-05V10	2040H-05-05V10V10
2040H-06V10	2040H-06-06V10V10
2040H-08V10	2040H-08-08V10V10

Part No. #	Part No. for Twin Hose #
550H-4	550H-4-4
550H-5	550H-5-5
550H-6	550H-6-6
550H-8	550H-8-8

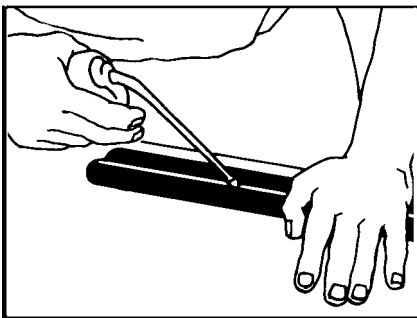
Twinline and Multiline Hose Separation Instructions



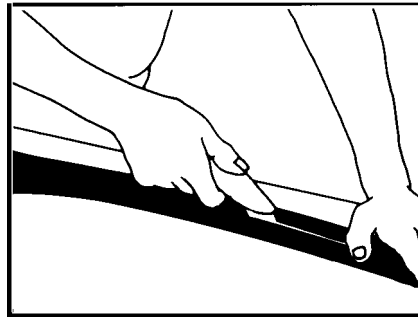
1. Position twinline or multiline hose assembly so that it lies flat on work surface without tendency to twist or turn.



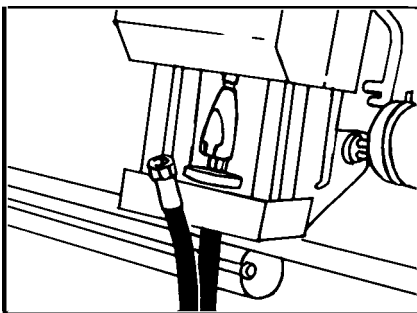
2. Measure and mark the length that the hoses are to be separated.



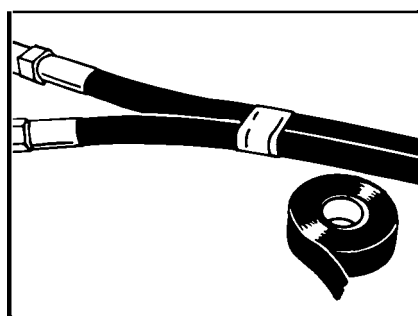
3. Lightly lubricate the area between the hoses to be separated with oil. The function of the oil is to reduce the friction of the knife blade.



4. Press the multiline hose assembly firmly and flat against the work surface so that it does not move. Draw the knife toward you with constant light to moderate pressure and repeat cutting until hoses are separated.



5. The separation length must be sufficiently long to avoid the risk of kinking the hoses during the crimping operation.



6. Depending on the requirements of the installation it is suggested that a nylon lashing strap or tape be applied at the termination of the separated length to provide protection against tearing of the hose covers.

Note:

It is important that the knife blade be perpendicular to the hose during this procedure, so that the blade cuts only the material connecting the hoses.

EXTREME CARE MUST BE TAKEN TO AVOID CUTTING THROUGH THE COVER OF THE HOSES AND THEREBY EXPOSING THE REINFORCEMENT.

K – Hose Fittings

Fittings Selection Charts	K2 - K3
51 Series	K4 - K12
54 Series	K13 - K17
55 Series	K18 - K37
56 Series	K38 - K55
58 Series	K56 - K68
5X Series	K69 - K70
8X Series	K71 - K75
91N Series	K76 - K89
93N Series	K90 - K95
AB Series	K96 - K97
AF/BF Series	K98
EX Series	K99 - K105
HP Series	K106
LX Series	K107 - K110
NX Series	K111 - K123
PX Series	K124 - K140
RX Series	K141 - K149
YX Series	K150 - K158



Hose Fittings Fittings Selection Chart

Code	Description	Fitting Series							
		51	54	55	56	58	91N	93N	HP
01	NPTF Male - 60° Flare	•		•	•	•	•	•	•
02	NPTF Female - rigid							•	
03	JIC Male - 37° Cone	•		•	•		•		
05	UNF Male / O-Ring			•	•				
06	JIC - 37° Flare - UNF Swivel Nut	•		•	•	•	•	•	•
08	SAE 45° Flare - UNF Swivel Nut	•					•		
0C	24° Sealing Cone/O-Ring 45° Elbow-Heavy Series-Metric Swivel Nut-DIN 20 078 P			•	•	•			
1C	24° Sealing Cone/O-Ring 90° Elbow-Heavy Series-Metric Swivel Nut-DIN 20 078 P			•	•	•			
1D	Metric Standpipe - Light Series	•	•	•	•				
28	SAE 45° Flare - UNF Male Swivel						•		
37	JIC - 37° Flare 45° Elbow - UNF Swivel Nut			•	•		•		
39	JIC - 37° Flare 90° Elbow - UNF Swivel Nut	•		•	•	•			
3D	Metric Standpipe - Heavy Series	•		•	•				
41	JIC - 37° Flare 90° Elbow - (Long Drop Length) - UNF Swivel Nut						•		
49	Banjo Union			•	•				
67	SAE 45° Elbow - 45° Flare - UNF Male Swivel						•		
69	SAE 90° Elbow - 45° Flare - UNF Male Swivel						•		
77	SAE 45° Elbow - 45° Flare - UNF Swivel Nut						•		
79	SAE 90° Elbow - 45° Flare - UNF Swivel Nut						•		
92	Sealing Head (60°) - BSP Swivel Nut		•	•	•	•			
AL	A-Lok® - Connector with Clamp Ring						•		
B1	Sealing Head (60°) 45° Elbow - BSP Swivel Nut	•	•	•	•	•			
B2	Sealing Head (60°) 90° Elbow - BSP Swivel Nut	•	•	•	•	•			
B4	BSP Swivel Female / Compact Bow 90°			•	•				
C3	Sealing Head - Light Series - Metric Swivel Nut - DIN 20 078 A	•	•	•	•				
C4	Sealing Head 45° Elbow - Light Series - Metric Swivel Nut - DIN 20 078 A	•	•	•	•				
C5	Sealing Head 90° Elbow - Light Series - Metric Swivel Nut - DIN 20 078 A	•	•	•	•				
C6	Sealing Head - Heavy Series - Metric Swivel Nut	•		•	•	•			
C9	24° Sealing Cone / O-Ring - Heavy Series - Metric Swivel Nut - DIN 20 078 P			•	•	•			
CA	24° Sealing Cone / O-Ring - Light Series - Metric Swivel Nut - DIN 20 078 N			•	•	•	•		
CE	24° Sealing Cone/O-Ring 45° Elbow-Light Series-Metric Swivel Nut-DIN 20 078 N			•	•	•	•		
CF	24° Sealing Cone/O-Ring 90° Elbow-Light Series-Metric Swivel Nut-DIN 20 078 N			•	•	•	•		
D0	Metric Male 24° Flare - Light Series - DIN 20 078 D	•		•	•	•			
D2	Metric Male 24° Flare - Heavy Series - DIN 20 078 E	•		•	•	•			
D9	BSP Male - DIN 3852 Shape A	•		•	•	•			
J1	O-Lok® ORFS 90° Elbow - (Long Drop Length) - UNF Swivel Nut			•	•		•		
J7	O-Lok® ORFS 45° Elbow - UNF Swivel Nut			•	•	•	•	•	
J9	O-Lok® ORFS 90° Elbow - UNF Swivel Nut			•	•	•	•	•	
JC	O-Lok® ORFS - (Short Version) - UNF Swivel Nut			•	•	•	•	•	
JM	O-Lok® ORFS Male			•	•				
JS	O-Lok® ORFS - UNF Swivel Nut			•	•	•			
P6	CPI® - Connector with Swivel Nut and Clamp Ring						•		
Q1	„Ultra Seal“ - Connector - UNF Swivel Nut						•		
U0	Sealing Head (24°/60°) - BSP Swivel Nut			•					

For Your Safety!

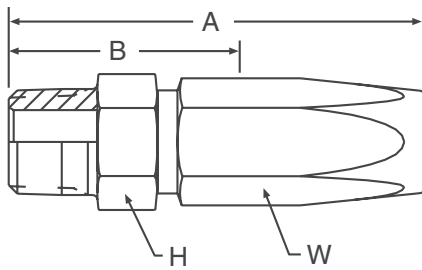
All fittings listed in this catalogue have been fully tested with the relevant hose types to ensure their safety.

Hose Fittings Fittings Selection Chart



Code	Description	Fitting Series							
		5X	8X	EX	LX	NX	PX	RX	YX
01	NPTF Male - 60° Flare		•	•		•	•	•	•
03	JIC Male - 37° Cone						•		•
05	UNF Male / O-Ring		•						
06	JIC 37° Flare - UNF Swivel Nut		•	•		•	•	•	•
07	60° Sealing Cone – NPSM Swivel Nut		•			•	•		•
0C	24° Sealing Cone/O-Ring 45° Elbow-Heavy Series-Metric Swivel Nut - DIN 20078P					•	•	•	
15	SAE Flange Head - Standard Series - DIN 20 078 R					•			
17	SAE Flange Head 45° - Standard Series - DIN 20 078 R					•			
19	SAE Flange Head 90° - Standard Series - DIN 20 078 R					•			
1C	24° Sealing Cone/O-Ring 90° Elbow-Heavy Series-Metric Swivel Nut - DIN 20078P					•	•	•	
1D	Metric Standpipe - Light Series			•			•		
37	JIC 37° Flare 45° Elbow - UNF Swivel Nut						•		•
39	JIC 37° Flare 90° Elbow - UNF Swivel Nut						•		•
3B	BSP Male 60° Flare		•			•	•	•	•
3D	Metric Standpipe - Heavy Series			•					
49	Banjo Union			•					
6A	SAE Flange Head - Heavy Series - DIN 20 078 S					•			
6F	SAE Flange Head 45° Elbow - Heavy Series - DIN 20 078 S					•			
6N	SAE Flange Head 90° Elbow - Heavy Series - DIN 20 078 S					•			
91	Male according to DIN						•		
92	Sealing Head (60°) - BSP Swivel Nut		•	•	•	•	•	•	•
AY	59° Sealing Cone - UNF Swivel Nut	•			•				
B1	Sealing Head (60°) 45° Elbow - BSP Swivel Nut						•	•	•
B2	Sealing Head (60°) 90° Elbow - BSP Swivel Nut						•	•	•
B4	BSP Swivel Female / Compact Bow 90°						•	•	•
BP	Female BSP / Rigid			•					
C3	Sealing Head - Light Series - Metric Swivel Nut - DIN 20 078 A	•			•	•	•		•
C6	Sealing Head - Heavy Series - Metric Swivel Nut				•	•			
C9	24° Sealing Cone / O-Ring - Heavy Series - Metric Swivel Nut - DIN 20 078 P	•	•	•	•	•	•	•	•
CA	24° Sealing Cone / O-Ring - Light Series - Metric Swivel Nut - DIN 20 078 N			•			•		•
CE	24° Sealing Cone/O-Ring 45° Elbow-Light Series-Metric Swivel Nut - DIN 20 078 N						•		
CF	24° Sealing Cone/O-Ring 90° Elbow-Light Series-Metric Swivel Nut - DIN 20 078 N						•		
D0	Metric Male 24° Flare - Light Series - DIN 20 078 D						•		•
D2	Metric Male 24° Flare - Heavy Series - DIN 20 078 E					•	•		•
D9	BSP Male - DIN 3852 Shape A		•	•	•		•	•	•
F1	24° Sealing Cone 45° Elbow - French Gas Series - Metric Swivel Nut					•		•	
F2	24° Sealing Cone 90° Elbow - French Gas Series - Metric Swivel Nut					•		•	
F4	24° Sealing Cone - French Gas Series - Metric Swivel Nut							•	
FG	Metric Male 24° Flare - French Gas Series					•		•	
GA	Female according to NEN 176						•		
J7	O-Lok ORFS 45° Elbow						•		
J9	O-Lok ORFS 90° Elbow						•		
JC	O-Lok ORFS (Short Version)			•			•		
JM	O-Lok ORFS Male						•		
R8	Quick Connect Fitting - Metric Swivel Nut - Knurled			•					
U0	Sealing Head - BSP Swivel Nut		•			•	•		•
Y7	Sealing Head 37° Cone - NPSM Swivel Nut						•	•	
Y9	BSP Male for USIT Ring		•		•				
YA	High Pressure Connector - 59° Cone - UNF - Left Hand Thread	•			•				
YM	High Pressure Connector - 59° Cone - Metric - Left Hand Thread	•							
YP	Quick Connect Fitting with Clip			•					
YR	Quick Connect Fitting - Metric Swivel Nut			•					

K

20151 – NPTF Male - 60° Flare

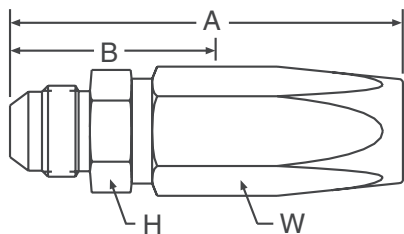


51 Series


Part No. #	DN size mm inch				Connection Type		A mm	B mm	H mm	W mm
					Thread Size					
20151-2-3	5	-03	4.8	3/16	1/8 - 27NPTF		43	25	11	17
20151-4-3	5	-03	4.8	3/16	1/4 - 18NPTF		48	29	14	17
20151-2-4	6	-04	6.4	1/4	1/8 - 27NPTF		48	25	13	17
20151-4-4	6	-04	6.4	1/4	1/4 - 18NPTF		53	30	14	17
20151-4-5	8	-05	7.9	5/16	1/4 - 18NPTF		55	37	17	22
20151-6-5	8	-05	7.9	5/16	3/8 - 18NPTF		55	37	19	22
20151-4-6	10	-06	9.5	3/8	1/4 - 18NPTF		66	37	14	22
20151-6-6	10	-06	9.5	3/8	3/8 - 18NPTF		66	37	19	22
20151-8-6	10	-06	9.5	3/8	1/2 - 14NPTF		71	40	22	22
20151-6-8	12	-08	12.7	1/2	3/8 - 18NPTF		76	43	22	27
20151-8-8	12	-08	12.7	1/2	1/2 - 14NPTF		81	43	22	27
20151-12-12	20	-12	19.0	3/4	3/4 - 14NPTF		87	44	27	36

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

20351 – JIC Male 37° Cone

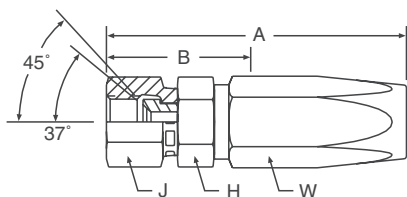


51 Series

Part No. #	DN size mm inch				Connection Type		A mm	B mm	H mm	W mm
					Thread Size	Tube OD				
20351-4-3	5	-03	4.8	3/16	7/16 - 20UNF	1/4	48	29	13	17
20351-5-4	6	-04	6.4	1/4	1/2 - 20UNF	5/16	52	29	14	17
20351-6-5	8	-05	7.9	5/16	9/16 - 18UNF	3/8	55	33	16	22
20351-6-6	10	-06	9.5	3/8	9/16 - 18UNF	3/8	66	37	19	22
20351-8-6	10	-06	9.5	3/8	3/4 - 16UNF	1/2	69	37	22	22
20351-8-8	12	-08	12.7	1/2	3/4 - 16UNF	1/2	78	41	22	27

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

20651 – JIC - 37° Flare UNF Swivel Nut

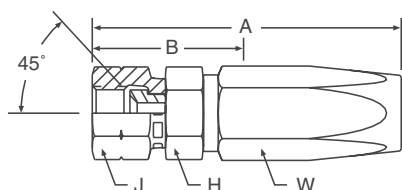


51 Series

Part No. #	DN size mm inch				Connection Type		A mm	B mm	H mm	W mm	J mm
	mm	inch	Thread Size	Tube OD							
20651-4-3	5	-03	4.8	3/16	7/16 - 20UNF	1/4	51	32	14	17	17
20651-4-4	6	-04	6.4	1/4	7/16 - 20UNF	1/4	55	32	14	17	17
20651-5-4	6	-04	6.4	1/4	1/2 - 20UNF	5/16	57	37	14	17	17
20651-6-4	6	-04	6.4	1/4	9/16 - 18UNF	3/8	59	37	14	17	19
20651-6-5	8	-05	7.9	5/16	9/16 - 18UNF	3/8	60	38	17	22	19
20651-6-6	10	-06	9.5	3/8	9/16 - 18UNF	3/8	70	37	19	22	19
20651-8-6	10	-06	9.5	3/8	3/4 - 16UNF	1/2	73	41	22	22	22
20651-8-8	12	-08	12.7	1/2	3/4 - 16UNF	1/2	83	44	22	27	22
20651-10-8	12	-08	12.7	1/2	7/8 - 14UNF	5/8	86	48	25	27	27
20651-12-12	20	-12	19.0	3/4	1 1/16 - 12UNF	3/4	95	54	27	36	32

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

20851 – SAE Male 45° Flare UNF Swivel Nut

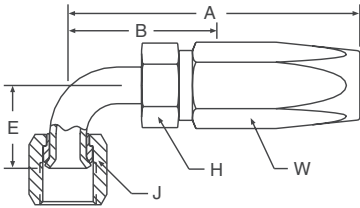


51 Series

Part No. #	DN size mm inch				Connection Type		A mm	B mm	H mm	W mm	J mm
	mm	inch	Thread Size	Tube OD							
20851-6-6	10	-06	9.5	3/8	5/8 - 18UNF	3/8	72	40	19	22	19

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

23951 – JIC - 37° Flare 90° Elbow UNF Swivel Nut

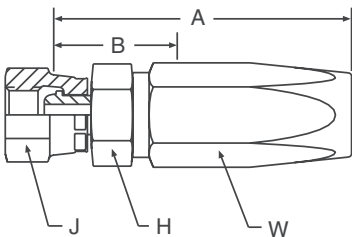


51 Series

Part No. #	DN size mm inch				Connection Type		A mm	B mm	E mm	H mm	J mm	W mm
					Thread Size	Tube OD						
23951-4-3	5	-03	4.8	3/16	7/16 - 20UNF	1/4	45	17	25	10	17	17
23951-6-6	10	-06	9.5	3/8	9/16 - 18UNF	3/8	69	22	37	14	19	22
23951-8-6	10	-06	9.5	3/8	3/4 - 16UNF	1/2	74	28	41	17	22	22

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

29251 – Sealing Head (60°) BSP Swivel Nut



51 Series

Part No. #	DN size mm inch				Connection Type		A mm	B mm	H mm	J mm	W mm
					Thread Size						
29251-4-3	5	-03	4.8	3/16	1/4 - 19BSPP		45	25	-	19	17
29251-4-4	6	-04	6.4	1/4	1/4 - 19BSPP		47	28	-	17	17
29251-6-5	8	-05	7.9	5/16	3/8 - 19BSPP		48	24	-	22	22
29251-6-6	10	-06	9.5	3/8	3/8 - 19BSPP		63	35	17	22	22
29251-8-8	12	-08	12.7	1/2	1/2 - 14BSPP		74	41	22	27	27
29251-10-8	12	-08	12.7	1/2	5/8 - 14BSPP		73	40	24	30	27
29251-12-12	20	-12	19.0	3/4	3/4 - 14BSPP		78	37	27	32	36

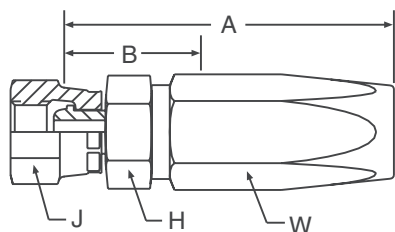
Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

2C351 – Sealing Head

Light Series – Metric Swivel Nut

DIN 20 078 A

51 Series



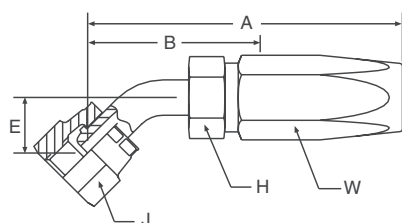
Part No. #	DN size		mm inch		Connection Type Thread Size	A mm	B mm	H mm	J mm	W mm
2C351-6-3	5	-03	4.8	3/16	M12 x 1.5	43	24	–	14	17
2C351-8-4	6	-04	6.4	1/4	M14 x 1.5	47	25	–	19	17
2C351-10-5	8	-05	7.9	5/16	M16 x 1.5	48	22	–	19	22
2C351-10-6	10	-06	9.5	3/8	M16 x 1.5	63	35	17	19	22
2C351-12-6	10	-06	9.5	3/8	M18 x 1.5	63	34	19	22	22
2C351-15-8	12	-08	12.7	1/2	M22 x 1.5	74	41	22	27	27
2C351-18-12	20	-12	19.0	3/4	M26 x 1.5	78	37	27	32	36
2C351-22-12	20	-12	19.0	3/4	M30 x 2	82	41	30	36	36
2C351-28-16	25	-16	25.4	1	M36 x 2	98	52	36	46	43

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

2C451 – Sealing Head 45° Elbow

Light Series – Metric Swivel Nut

DIN 20 078 A

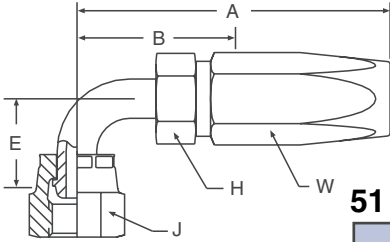


51 Series

Part No. #	DN size		mm inch		Connection Type Thread Size	A mm	B mm	E mm	H mm	J mm	W mm
2C451-6-3	5	-03	4.8	3/16	M12 x 1.5	60	32	13	14	17	17
2C451-8-4	6	-04	6.4	1/4	M14 x 1.5	59	40	13	14	19	17
2C451-10-5	8	-05	7.9	5/16	M16 x 1.5	70	41	16	17	19	22
2C451-10-6	10	-06	9.5	3/8	M16 x 1.5	83	56	18	17	19	22
2C451-12-6	10	-06	9.5	3/8	M18 x 1.5	89	58	19	17	22	22
2C451-15-8	12	-08	12.7	1/2	M22 x 1.5	100	64	21	19	27	27
2C451-18-12	20	-12	19.0	3/4	M26 x 1.5	116	75	26	27	36	36
2C451-22-12	20	-12	19.0	3/4	M30 x 2	119	79	29	27	36	36
2C451-28-16	25	-16	25.4	1	M36 x 2	127	82	31	32	46	43

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

2C551 – Sealing Head 90° Elbow Light Series – Metric Swivel Nut DIN 20 078 A

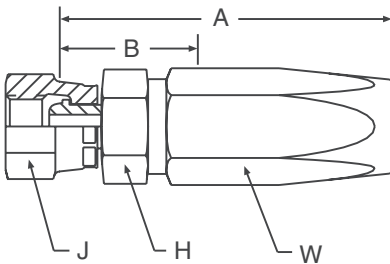


51 Series

Part No. #	DN size mm inch				Connection Type Thread Size	A mm	B mm	E mm	H mm	J mm	W mm
	mm	inch	mm	inch							
2C551-6-3	5	-03	4.8	3/16	M12 x 1.5	55	33	36	14	17	16
2C551-8-4	6	-04	6.4	1/4	M14 x 1.5	53	34	25	14	17	17
2C551-10-5	8	-05	7.9	5/16	M16 x 1.5	66	40	32	17	19	19
2C551-10-6	10	-06	9.5	3/8	M16 x 1.5	75	47	35	17	19	22
2C551-12-6	10	-06	9.5	3/8	M18 x 1.5	80	49	36	17	22	22
2C551-15-8	12	-08	12.7	1/2	M22 x 1.5	89	53	42	22	27	27
2C551-18-12	20	-12	19.0	3/4	M26 x 1.5	70	70	59	27	36	35
2C551-22-12	20	-12	19.0	3/4	M30 x 2	73	73	64	30	36	35
2C551-28-16	25	-16	25.4	1	M36 x 2	75	75	67	32	46	43

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

2C651 – Sealing Head Heavy Series Metric Swivel Nut



51 Series

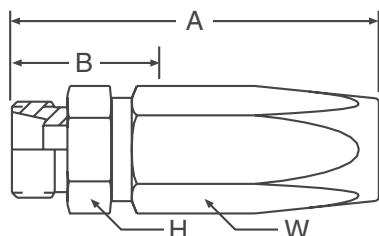
Part No. #	DN size mm inch				Connection Type Thread Size	A mm	B mm	H mm	J mm	W mm
	mm	inch	mm	inch						
2C651-6-3	5	-03	4.8	3/16	M16 x 1.5	49	28	17	19	16
2C651-10-4	6	-04	6.4	1/4	M18 x 1.5	61	36	17	22	17
2C651-12-5	8	-05	7.9	5/16	M20 x 1.5	61	35	19	24	19
2C651-12-6	10	-06	9.5	3/8	M20 x 1.5	64	36	19	24	22
2C651-14-6	10	-06	9.5	3/8	M22 x 1.5	65	37	22	27	22
2C651-16-8	12	-08	12.7	1/2	M24 x 1.5	73	40	24	30	27
2C651-20-12	20	-12	19.0	3/4	M30 x 2	81	41	30	36	35
2C651-25-12	20	-12	19.0	3/4	M36 x 2	81	40	36	46	35
2C651-30-16	25	-16	25.4	1	M42 x 2	94	48	41	50	43

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

2D051 – Metric Male 24° Flare

Light Series

DIN 20 078 D



51 Series

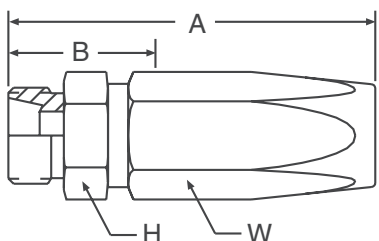
Part No. #	DN size mm inch				Connection Type Thread Size	A mm	B mm	H mm	W mm
	mm	inch	mm	inch					
2D051-6-3	5	-03	4.8	3/16	M12 x 1.5	43	24	14	16
2D051-8-4	6	-04	6.4	1/4	M14 x 1.5	46	25	17	17
2D051-10-5	8	-05	7.9	5/16	M16 x 1.5	52	26	17	19
2D051-10-6	10	-06	9.5	3/8	M16 x 1.5	59	30	17	22
2D051-12-6	10	-06	9.5	3/8	M18 x 1.5	59	30	19	22
2D051-15-8	12	-08	12.7	1/2	M22 x 1.5	66	34	22	27
2D051-18-12	20	-12	19.0	3/4	M26 x 1.5	72	32	27	35
2D051-22-12	20	-12	19.0	3/4	M30 x 1.5	75	35	30	35
2D051-28-16	25	-16	25.4	1	M36 x 2	84	38	36	43

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

2D251 – Metric Male 24° Flare

Heavy Series

DIN 20 078 E

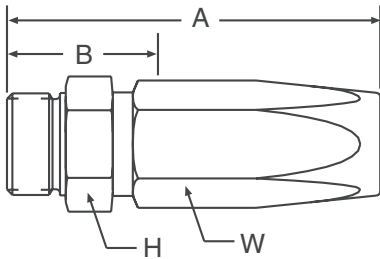


51 Series





Part No. #	DN size mm inch				Connection Type Thread Size	A mm	B mm	H mm	W mm
	mm	inch	mm	inch					
2D251-8-3	5	-03	4.8	3/16	M16 x 1.5	47	27	17	16
2D251-10-4	6	-04	6.4	1/4	M18 x 1.5	53	28	19	17
2D251-12-5	8	-05	7.9	5/16	M20 x 1.5	55	27	22	19
2D251-12-6	10	-06	9.5	3/8	M20 x 1.5	63	34	22	22
2D251-14-6	10	-06	9.5	3/8	M22 x 1.5	64	35	22	22
2D251-16-8	12	-08	12.7	1/2	M24 x 1.5	72	40	24	27
2D251-20-12	20	-12	19.0	3/4	M30 x 2	80	40	30	35
2D251-25-12	20	-12	19.0	3/4	M36 x 2	84	44	36	35
2D251-30-16	25	-16	25.4	1	M42 x 2	96	50	46	43

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

2D951 – BSP Male DIN 3852 Shape A

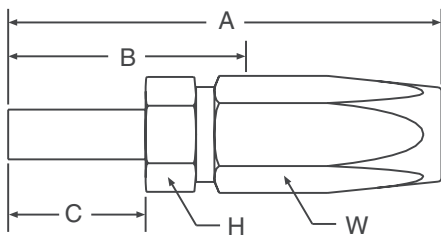


51 Series




Part No. #	DN size mm inch				Connection Type Thread Size	A mm	B mm	H mm	W mm
									
2D951-2-3	5	-03	4.8	3/16	1/8 -28BSPP	44	24	14	16
2D951-4-3	5	-03	4.8	3/16	1/4 -19BSPP	49	29	19	16
2D951-4-4	6	-04	6.4	1/4	1/4 -19BSPP	54	29	19	17
2D951-6-5	8	-05	7.9	5/16	3/8 -19BSPP	58	30	22	19
2D951-6-6	10	-06	9.5	3/8	3/8 -19BSPP	62	34	22	22
2D951-8-8	12	-08	12.7	1/2	1/2 -14BSPP	73	41	27	27
2D951-12-12	20	-12	19.0	3/4	3/4 -14BSPP	81	41	32	35
2D951-16-16	25	-16	25.4	1	1 -11BSPP	95	49	41	43

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

21D51 – Metric Standpipe Light Series



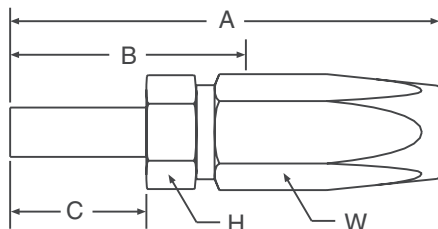
51 Series

Part No. #	DN size mm inch				A mm	B mm	C mm	H mm	W mm
									
21D51-6-3	5	-03	4.8	3/16	55	35	22	14	16
21D51-6-6	10	-06	9.5	3/8	67	32	18	19	22
21D51-8-4	6	-04	6.4	1/4	58	36	22	14	17
21D51-10-5	8	-05	7.9	5/16	64	38	23	14	19
21D51-10-6	10	-06	9.5	3/8	71	42	23	17	22
21D51-12-6	10	-06	9.5	3/8	71	42	23	17	22
21D51-15-8	12	-08	12.7	1/2	80	48	25	19	27
21D51-18-12	20	-12	19.0	3/4	86	46	26	27	35
21D51-22-12	20	-12	19.0	3/4	88	48	28	27	35
21D51-28-16	25	-16	25.4	1	104	58	30	32	43

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

23D51 – Metric Standpipe Heavy Series

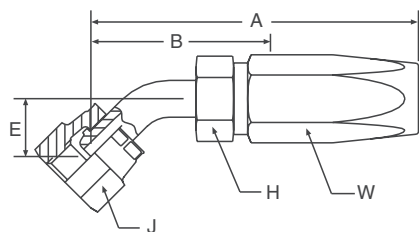
51 Series



Part No. #	DN size mm inch				A mm	B mm	C mm	H mm	W mm
	○							⬡	⬡
23D51-8-3	5	-03	4.8	3/16	56	36	24	14	16
23D51-10-4	6	-04	6.4	1/4	58	36	26	14	17
23D51-12-5	8	-05	7.9	5/16	65	39	26	14	19
23D51-12-6	10	-06	9.5	3/8	74	46	26	17	22
23D51-14-6	10	-06	9.5	3/8	77	48	29	17	22
23D51-16-8	12	-08	12.7	1/2	84	52	30	19	27
23D51-20-12	20	-12	19.0	3/4	99	58	36	27	35
23D51-25-12	20	-12	19.0	3/4	106	65	40	27	35
23D51-30-16	25	-16	25.4	1	118	72	44	32	43

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

2B151 – Sealing Head (60°) 45° Elbow BSP Swivel Nut

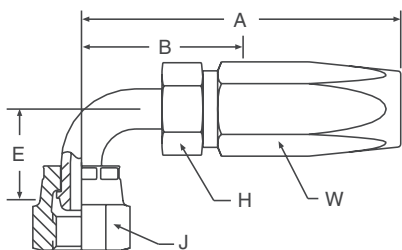


51 Series

Part No. #	DN size mm inch				Connection Type Thread Size	A mm	B mm	E mm	H mm	J mm	W mm
	○				⌘				⬡	⬡	⬡
2B151-4-3	5	-03	4.8	3/16	1/4 - 19BSPP	58	38	14	14	17	16
2B151-4-4	6	-04	6.4	1/4	1/4 - 19BSPP	59	40	14	14	17	17
2B151-6-5	8	-05	7.9	5/16	3/8 - 19BSPP	70	44	14	14	19	19
2B151-6-6	10	-06	9.5	3/8	3/8 - 19BSPP	80	49	16	17	19	22
2B151-8-8	12	-08	12.7	1/2	1/2 - 14BSPP	95	59	18	22	27	27
2B151-12-12	20	-12	19.0	3/4	3/4 - 14BSPP	100	60	20	30	32	35
2B151-16-16	25	-16	25.4	1	1 - 11BSPP	122	76	26	32	41	43

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

2B251 – Sealing Head (60°) 90° Elbow BSP Swivel Nut



51 Series

Part No. #	DN size mm inch				Connection Type Thread Size	A mm	B mm	E mm	H mm	J mm	W mm
	mm	inch	mm	inch							
2B251-4-3	5	-03	4.8	3/16	1/4 - 19BSPP	58	33	14	14	17	16
2B251-4-4	6	-04	6.4	1/4	1/4 - 19BSPP	59	33	26	14	17	17
2B251-6-5	8	-05	7.9	5/16	3/8 - 19BSPP	66	40	34	14	19	19
2B251-6-6	10	-06	9.5	3/8	3/8 - 19BSPP	75	44	31	17	19	22
2B251-8-8	12	-08	12.7	1/2	1/2 - 14BSPP	89	53	38	22	27	27
2B251-12-12	20	-12	19.0	3/4	3/4 - 14BSPP	104	64	47	30	32	35
2B251-16-16	25	-16	25.4	1	1 - 11BSPP	120	74	62	32	41	43

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

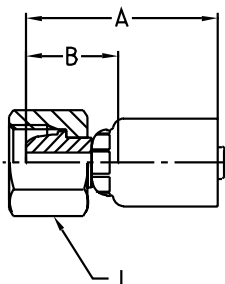
1C354 – Sealing Head





Light Series

Metric Swivel Nut

DIN 20 078 A

54 Series



Part No. #	DN size mm inch				Connection Type			A mm	B mm	J mm
					Thread Size 	Tube OD 				
1C354-6-3	5	-03	4.8	3/16	M12x1.5	6	33	16	14	
1C354-8-4	6	-04	6.4	1/4	M14x1.5	8	36	17	17	
1C354-10-5	8	-05	7.9	5/16	M16x1.5	10	40	19	19	
1C354-12-6	10	-06	9.5	3/8	M18x1.5	12	43	20	22	

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1C454 – Sealing Head 45° Elbow

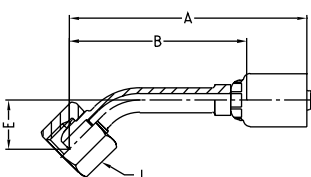
Light Series





Metric Swivel Nut

DIN 20 078 A



54 Series



Part No. #	DN size mm inch				Connection Type			A mm	B mm	E mm	J mm
					Thread Size 	Tube OD 					
1C454-6-3	5	-03	4.8	3/16	M12x1.5	6	70	53	15.7	14	
1C454-8-4	6	-04	6.4	1/4	M14x1.5	8	73	54	15.0	17	
1C454-12-6	10	-06	9.5	3/8	M18x1.5	12	81	58	18.0	22	

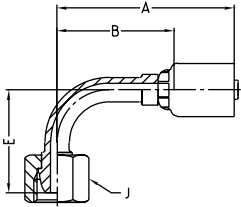
Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1C554 – Sealing Head 90° Elbow

Light Series

Metric Swivel Nut

DIN 20 078 A



54 Series

Part No. #	DN size				Connection Type		A mm	B mm	E mm	J mm
	mm	inch	Thread Size	Tube OD						
1C554-6-3	5	-03	4.8	3/16	M12x1.5	6	51	34	32.3	14
1C554-8-4	6	-04	6.4	1/4	M14x1.5	8	54	36	31.5	17
1C554-12-6	10	-06	9.5	3/8	M18x1.5	12	60	37	35.0	22

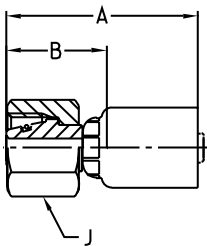
Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1CA54 – 24° Sealing Cone / O-Ring

Light Series

Metric Swivel Nut

DIN 20 078 N



54 Series

Part No. #	DN size				Connection Type		A mm	B mm	J mm
	mm	inch	Thread Size	Tube OD					
1CA54-6-3	5	-03	4.8	3/16	M12x1.5	6	35	18	14
1CA54-8-4	6	-04	6.3	1/4	M14x1.5	8	39	20	17
1CA54-10-5	8	-05	7.9	5/16	M16x1.5	10	42	21	19
1CA54-10-6	10	-06	9.5	3/8	M16x1.5	10	44	21	19
1CA54-12-6	10	-06	9.5	3/8	M18x1.5	12	44	21	22

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

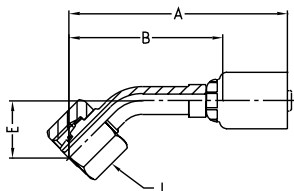
1CE54 – 24° Sealing Cone / O-Ring 45° Elbow

Light Series

Metric Swivel Nut

DIN 20 078 N

54 Series



Part No. #	DN size mm inch				Connection Type						
					Thread Size	Tube OD	A mm	B mm	E mm	J mm	
1CE54-6-3	5	-03	4.8	3/16	M12x1.5	6	65.0	47.5	17.0	14	
1CE54-8-4	6	-04	6.3	1/4	M14x1.5	8	63.0	44.0	16.5	17	
1CE54-10-5	8	-05	7.9	5/16	M16x1.5	10	80.5	60.0	18.5	19	
1CE54-10-6	10	-06	9.5	3/8	M16x1.5	10	82.0	59.0	19.0	19	
1CE54-12-6	10	-06	9.5	3/8	M18x1.5	12	82.0	59.0	19.0	22	

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

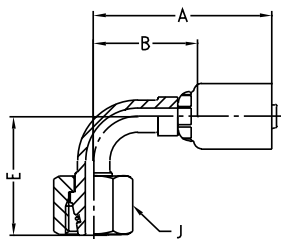
1CF54 – Sealing Cone / O-Ring 90° Elbow

Light Series

Metric Swivel Nut

DIN 20 078 N

54 Series

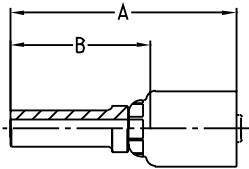


Part No. #	DN size mm inch				Connection Type						
					Thread Size	Tube OD	A mm	B mm	E mm	J mm	
1CF54-6-3	5	-03	4.8	3/16	M12x1.5	6	45	28	31	14	
1CF54-10-6	10	-06	9.5	3/8	M16x1.5	10	59	36	37	19	

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request



11D54 – Metric Standpipe Light Series



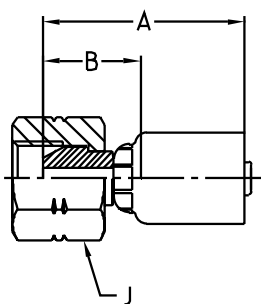
54 Series

Part No. #	DN size mm inch				Tube OD	A mm	B mm
11D54-6-4	6	-04	6.3	1/4	6	49	30
11D54-8-4	6	-04	6.3	1/4	8	49	30
11D54-12-6	10	-06	9.5	3/8	12	54	31

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Not recommended for new constructions. Please refer to end connections C3 or CA.

19254 – Sealing Head (60°) BSP Swivel Nut



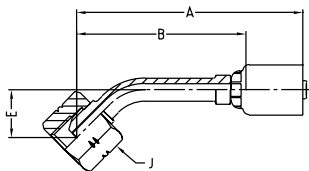
54 Series

Part No. #	DN size mm inch				Connection Type		A mm	B mm	H mm
					Thread Size	Tube OD			
19255-4-4	6	-04	6.3	1/4	 G 1/4	 1/4	36	17	 19

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1B154 – Sealing Head (60°) 45° Elbow BSP Swivel Nut

54 Series

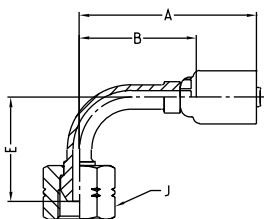


Part No. #	DN size mm inch				Connection Type		A mm	B mm	E mm	J mm
	mm	inch	mm	inch	Thread Size	Tube OD				
1B154-4-3	5	-03	4.8	3/16	G 1/4	1/4	70	53	15.5	19
1B154-4-4	6	-04	6.3	1/4	G 1/4	1/4	73	55	15.5	19
1B154-6-6	10	-06	9.5	3/8	G 3/8	3/8	81	58	17.5	22

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1B254 – Sealing Head (60°) 90° Elbow BSP Swivel Nut

54 Series



Part No. #	DN size mm inch				Connection Type		A mm	B mm	E mm	J mm
	mm	inch	mm	inch	Thread Size	Tube OD				
1B254-4-3	5	-03	4.8	3/16	G 1/4	1/4	51	32	32	19
1B254-4-4	6	-04	6.3	1/4	G 1/4	1/4	54	36	32	19
1B254-6-5	8	-05	7.9	5/16	G 3/8	3/8	59	38	36	22
1B254-6-6	10	-06	9.5	3/8	G 3/8	3/8	61	38	36	22

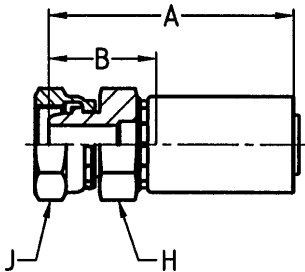
Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1C355 – Sealing Head




Light Series

Metric Swivel Nut

DIN 20 078 A



55 Series

Part No. #	DN size mm inch				Connection Type		A mm	B mm	H mm	J mm
					Thread Size 	Tube OD 				
1C355-6-3	5	-03	4.8	3/16	M12x1.5	6	52	27	14	14
1C355-8-4	6	-04	6.4	1/4	M14x1.5	8	59	27	17	19
1C355-10-4	6	-04	6.4	1/4	M16x1.5	8	59	27	19	19
1C355-10-5	8	-05	7.9	5/16	M16x1.5	10	59	27	19	19
1C355-12-5	8	-05	7.9	5/16	M18x1.5	12	61	29	19	24
1C355-10-6	10	-06	9.5	3/8	M16x1.5	10	66	29	19	22
1C355-12-6	10	-06	9.5	3/8	M18x1.5	12	66	29	19	24
1C355-15-8	12	-08	12.7	1/2	M22x1.5	15	72	31	24	27
1C355-18-12	20	-12	19.0	3/4	M26x1.5	18	80	34	32	32
1C355-22-12	20	-12	19.0	3/4	M30x2	22	84	38	32	36
1C355-28-16	25	-16	25.4	1	M36x2	28	97	37	36	46

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

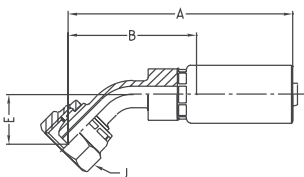
Note: 56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

1C455 – Sealing Head 45° Elbow




Light Series

Metric Swivel Nut

DIN 20 078 A



55 Series

Part No. #	DN size mm inch				Connection Type		A mm	B mm	E mm	J mm
					Thread Size 	Tube OD 				
1C455-6-3	5	-03	4.8	3/16	M12x1.5	6	67	42	16	14
1C455-8-4	6	-04	6.4	1/4	M14x1.5	8	73	42	16	19
1C455-10-5	8	-05	7.9	5/16	M16x1.5	10	74	43	17	19
1C455-10-6	10	-06	9.5	3/8	M16x1.5	10	81	45	17	19
1C455-12-6	10	-06	9.5	3/8	M18x1.5	12	82	45	18	22
1C455-15-8	12	-08	12.7	1/2	M22x1.5	15	91	50	20	27
1C455-22-12	20	-12	19.0	3/4	M30x2	22	107	61	24	36

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

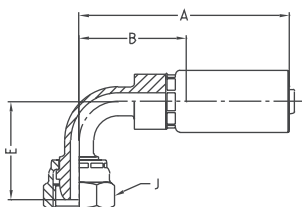
Note: 56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

1C555 – Sealing Head 90° Elbow

Light Series

Metric Swivel Nut

DIN 20 078 A



55 Series

Part No. #	DN size mm inch				Connection Type		A mm	B mm	E mm	J mm
	Thread Size	Tube OD								
1C555-6-3	5	-03	4.8	3/16	M12x1.5	6	57	32	29	14
1C555-8-4	6	-04	6.4	1/4	M14x1.5	8	64	32	29	19
1C555-10-4	6	-04	6.4	1/4	M16x1.5	10	64	32	29	19
1C555-10-5	8	-05	7.9	5/16	M16x1.5	10	65	33	30	19
1C555-10-6	10	-06	9.5	3/8	M16x1.5	10	73	36	33	19
1C555-12-6	10	-06	9.5	3/8	M18x1.5	12	73	36	34	22
1C555-15-6	10	-06	9.5	3/8	M22x1.5	15	73	36	36	27
1C555-15-8	12	-08	12.7	1/2	M22x1.5	15	82	41	41	27
1C555-18-12	20	-12	19.0	3/4	M26x1.5	18	100	54	52	32
1C555-22-12	20	-12	19.0	3/4	M30x2	22	100	54	52	36
1C555-28-16	25	-16	25.4	1	M36x2	28	131	71	68	46

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

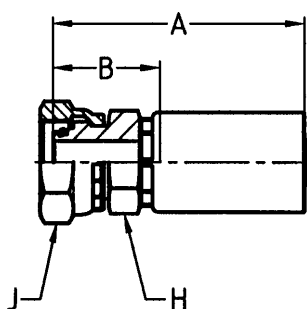
Note: 56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

1CA55 – 24° Sealing Cone / O-Ring

Light Series

Metric Swivel Nut

DIN 20 078 N



55 Series

Part No. #	DN size mm inch				Connection Type		A mm	B mm	H mm	J mm
	Thread Size	Tube OD								
1CA55-6-3	5	-03	4.8	3/16	M12x1.5	6	54	29	14	14
1CA55-8-4	6	-04	6.4	1/4	M14x1.5	8	60	29	17	19
1CA55-10-5	8	-05	7.9	5/16	M16x1.5	10	62	30	19	19
1CA55-12-5	8	-05	7.9	5/16	M18x1.5	12	63	31	19	22
1CA55-10-6	10	-06	9.5	3/8	M16x1.5	10	67	31	19	19
1CA55-12-6	10	-06	9.5	3/8	M18x1.5	12	68	31	19	22
1CA55-15-8	12	-08	12.7	1/2	M22x1.5	15	74	33	24	27
1CA55-18-12	20	-12	19.0	3/4	M26x1.5	18	80	34	32	32
1CA55-22-12	20	-12	19.0	3/4	M30x2	22	80	34	32	36
1CA55-28-16	25	-16	25.4	1	M36x2	28	101	41	36	46

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Note: 56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

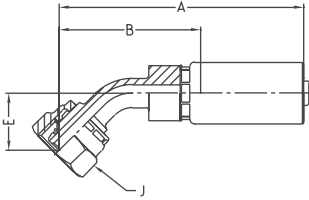
1CE55 – 24° Sealing Cone / O-Ring 45° Elbow

Light Series

Metric Swivel Nut

DIN 20 078 N

55 Series



Part No. #	DN size mm inch				Connection Type		A mm	B mm	E mm	J mm
	○				Thread Size ⋈	Tube OD ○				
1CE55-6-3	5	-03	4.8	3/16	M12x1.5	6	67	42	16	14
1CE55-8-4	6	-04	6.4	1/4	M14x1.5	8	75	43	18	19
1CE55-10-4	6	-04	6.4	1/4	M16x1.5	10	75	43	17	19
1CE55-10-5	8	-05	7.9	5/16	M16x1.5	10	75	44	18	19
1CE55-10-6	10	-06	9.5	3/8	M16x1.5	10	83	46	19	19
1CE55-12-6	10	-06	9.5	3/8	M18x1.5	12	83	46	19	22
1CE55-15-8	12	-08	12.7	1/2	M22x1.5	15	92	51	21	27
1CE55-18-12	20	-12	19.0	3/4	M26x1.5	18	108	62	25	32
1CE55-22-12	20	-12	19.0	3/4	M30x2	22	108	62	26	36

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Note: 56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

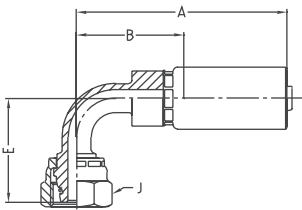
1CF55 – Sealing Cone / O-Ring 90° Elbow

Light Series

Metric Swivel Nut

DIN 20 078 N

55 Series



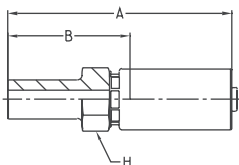
Part No. #	DN size mm inch				Connection Type		A mm	B mm	E mm	J mm
	○				Thread Size ⋈	Tube OD ○				
1CF55-6-3	5	-03	4.8	3/16	M12x1.5	6	55	30	29	14
1CF55-8-4	6	-04	6.4	1/6	M14x1.5	8	64	32	32	19
1CF55-10-4	6	-04	6.4	1/6	M16x1.5	10	64	32	31	19
1CF55-10-5	8	-05	7.9	5/16	M16x1.5	10	65	33	32	19
1CF55-12-5	8	-05	7.9	5/16	M18x1.5	12	65	33	32	22
1CF55-10-6	10	-06	9.5	3/8	M16x1.5	10	73	36	35	19
1CF55-12-6	10	-06	9.5	3/8	M18x1.5	12	73	36	35	22
1CF55-15-8	12	-08	12.7	1/2	M22x1.5	15	82	41	42	27
1CF55-18-12	20	-12	19.0	3/4	M26x1.5	18	100	54	54	32
1CF55-22-12	20	-12	19.0	3/4	M30x2	22	100	54	52	36
1CF55-28-16	25	-16	25.4	1	M36x2	28	122	62	65	46

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Note: 56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

11D55 – Metric Standpipe Light Series

55 Series



Part No. #	DN size mm inch				Tube OD	A mm	B mm	H mm
	mm	inch	mm	inch				
11D55-6-2	3	-02	3.2	1/8	6	49	32	13
11D55-6-3	5	-03	4.8	3/16	6	59	33	14
11D55-6-4	6	-04	6.4	1/4	6	68	36	17
11D55-8-4	6	-04	6.4	1/4	8	68	37	17
11D55-10-5	8	-05	7.9	5/16	10	69	37	17
11D55-10-6	10	-06	9.5	3/8	10	74	37	19
11D55-12-6	10	-06	9.5	3/8	12	75	38	19
11D55-15-8	12	-08	12.7	1/2	15	82	41	22
11D55-18-8	12	-08	12.7	1/2	18	83	41	22
11D55-18-12	20	-12	19.0	3/4	18	89	43	30
11D55-22-12	20	-12	19.0	3/4	22	91	45	30
11D55-28-16	25	-16	25.4	1	28	107	47	41

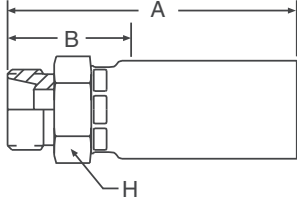
Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Note: 56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

Not recommended for new constructions. Please refer to end connections C3 or CA.



1D055 – Metric Male 24° Flare Light Series DIN 20 078 D



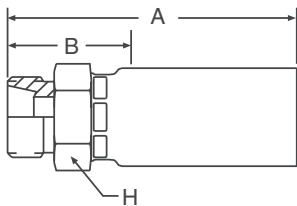
55 Series

Part No. #	DN size mm inch				Connection Type		A mm	B mm	H mm
	mm	inch	mm	inch	Thread Size	Tube OD			
1D055-6-3	5	-03	4.8	3/16	M12x1.5	6	49	23	17
1D055-8-4	6	-04	6.4	1/4	M14x1.5	8	55	23	19
1D055-10-5	8	-05	7.9	5/16	M16x1.5	10	58	26	19
1D055-12-5	8	-05	7.9	5/16	M18x1.5	12	59	27	19
1D055-10-6	10	-06	9.5	3/8	M16x1.5	10	63	26	22
1D055-12-6	10	-06	9.5	3/8	M18x1.5	12	64	27	22
1D055-15-6	10	-06	9.5	3/8	M22x1.5	15	67	30	27
1D055-15-8	12	-08	12.7	1/2	M22x1.5	15	71	30	27
1D055-18-12	20	-12	19.0	3/4	M26x1.5	18	76	30	32
1D055-22-12	20	-12	19.0	3/4	M30x2	22	77	31	36
1D055-28-16	25	-16	25.4	1	M36x2	28	91	31	41

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Note: 56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

1D255 – Metric Male 24° Flare Heavy Series DIN 20 078 E



55 Series

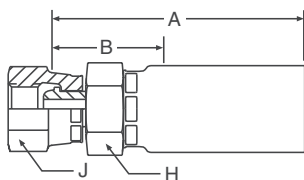
Part No. #	DN size mm inch				Connection Type		A mm	B mm	H mm
	mm	inch	mm	inch	Thread Size	Tube OD			
1D255-8-3	5	-03	4.8	3/16	M16x1.5	8	52	27	19
1D255-10-4	6	-04	6.4	1/4	M18x1.5	10	58	26	22
1D255-12-5	8	-05	7.9	5/16	M20x1.5	12	62	30	24
1D255-14-6	10	-06	9.5	3/8	M22x1.5	14	69	32	27
1D255-16-6	10	-06	9.5	3/8	M24x1.5	16	67	30	27
1D255-16-8	12	-08	12.7	1/2	M24x1.5	16	73	32	27
1D255-20-12	20	-12	19.0	3/4	M30x2	20	79	33	36
1D255-25-12	20	-12	19.0	3/4	M36x2	25	81	35	41
1D255-30-16	25	-16	25.4	1	M42x2	30	95	35	46

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Note: 56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

1C655 – Sealing Head Heavy Series Metric Swivel Nut

55 Series



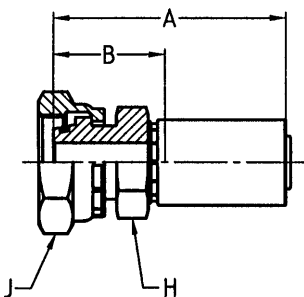
Part No. #	DN size mm inch				Connection Type		A mm	B mm	H mm	J mm
	mm	inch	Thread Size	Tube OD						
1C655-8-3	5	-03	4.8	3/16	M16x1.5	8	53	28	17	19
1C655-10-4	6	-04	6.4	1/4	M18x1.5	10	60	28	19	22
1C655-12-5	8	-05	7.9	5/16	M20x1.5	12	64	32	22	24
1C655-14-6	10	-06	9.5	3/8	M22x1.5	14	66	30	24	27
1C655-16-8	12	-08	12.7	1/2	M24x1.5	16	72	31	27	30
1C655-20-12	20	-12	19.0	3/4	M30x2	20	84	38	32	36
1C655-25-12	20	-12	19.0	3/4	M36x2	25	82	36	36	46
1C655-30-16	25	-16	25.4	1	M42x2	30	102	42	38	50

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Note: 56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

1C955 – 24° Sealing Cone / O-Ring Heavy Series Metric Swivel Nut DIN 20 078 P

55 Series



Part No. #	DN size mm inch				Connection Type		A mm	B mm	H mm	J mm
	mm	inch	Thread Size	Tube OD						
1C955-8-3	5	-03	4.8	3/16	M16x1.5	8	54	29	17	19
1C955-8-4	6	-04	6.4	1/4	M18x1.5	8	70	38	17	19
1C955-10-4	6	-04	6.4	1/4	M18x1.5	10	67	36	19	22
1C955-12-4	6	-04	6.4	1/4	M20x1.5	12	64	32	19	24
1C955-10-5	8	-05	7.9	5/16	M18x1.5	10	63	32	19	22
1C955-12-5	8	-05	7.9	5/16	M20x1.5	12	63	32	19	24
1C955-12-6	10	-06	9.5	3/8	M20x1.5	12	68	32	19	24
1C955-14-6	10	-06	9.5	3/8	M22x1.5	14	70	33	24	27
1C955-16-8	12	-08	12.7	1/2	M24x1.5	16	77	36	24	30
1C955-20-12	20	-12	19.0	3/4	M30x2	20	84	38	30	36
1C955-25-12	20	-12	19.0	3/4	M36x2	25	88	42	36	46
1C955-30-16	25	-16	25.4	1	M42x2	30	104	44	41	50

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Note: 56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

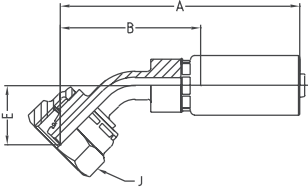
10C55 – 24° Sealing Cone / O-Ring 45° Elbow

Heavy Series

Metric Swivel Nut

DIN 20 078 P

55 Series



Part No. #	DN size mm inch				Connection Type		A mm	B mm	E mm	J mm
	Thread Size	Tube OD								
10C55-8-3	5	-03	4.8	3/16	M16x1.5	8	68	43	18	19
10C55-16-8	12	-08	12.7	1/2	M24x1.5	16	93	52	23	30

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Note: 56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

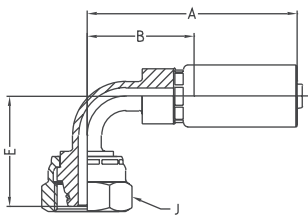
11C55 – 24° Sealing Cone / O-Ring 90° Elbow

Heavy Series

Metric Swivel Nut

DIN 20 078 P

55 Series



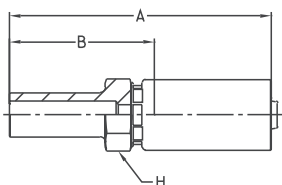
Part No. #	DN size mm inch				Connection Type		A mm	B mm	E mm	J mm
	Thread Size	Tube OD								
11C55-10-4	6	-04	6.4	1/4	M18x1.5	10	64	32	31	22
11C55-12-5	8	-05	7.9	5/16	M20x1.5	12	65	33	34	24
11C55-12-6	10	-06	9.5	3/8	M20x1.5	12	73	36	37	24
11C55-16-8	12	-08	12.7	1/2	M24x1.5	16	82	41	44	30

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Note: 56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

13D55 – Metric Standpipe Heavy Series

55 Series



Part No. #	DN size mm inch				Tube OD	A mm	B mm	H mm
#								
13D55-8-3	5	-03	4.8	3/16	8	61	35	14
13D55-8-4	6	-04	6.4	1/4	8	71	39	17
13D55-10-4	6	-04	6.4	1/4	10	70	38	17
13D55-12-5	8	-05	7.9	5/16	12	71	39	17
13D55-12-6	10	-06	9.5	3/8	12	76	39	19
13D55-14-6	10	-06	9.5	3/8	14	81	44	19
13D55-16-8	12	-08	12.7	1/2	16	87	46	22
13D55-20-12	20	-12	19.0	3/4	20	98	52	30
13D55-25-12	20	-12	19.0	3/4	25	103	57	30
13D55-30-16	25	-16	25.4	1	30	116	56	41

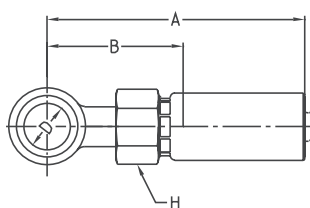
Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Note:

56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

Not recommended for new constructions. Please refer to end connections C9.

14955 – Banjo Union DIN 7642



55 Series

Part No. #	DN size mm inch				Tube OD	A mm	B mm	H mm
#								
14955-10-4	6	-04	6.4	1/4	10	65	34	17
14955-12-4	6	-04	6.4	1/4	12	67	36	17
14955-14-4	6	-04	6.4	1/4	14	72	40	17
14955-12-5	8	-05	7.9	5/16	12	61	30	
14955-14-5	8	-05	7.9	5/16	14	72	40	17
14955-12-6	10	-06	9.5	3/8	12	66	29	

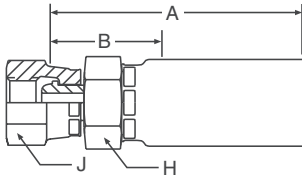
Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Note:

56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

19255 – Sealing Head (60°) BSP Swivel Nut

55 Series

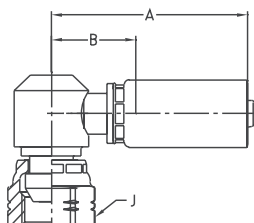


Part No. #	DN size mm inch				Connection Type		A mm	B mm	H mm	J mm
	mm	inch	Thread Size	Tube OD						
19255-4-3	5	-03	4.8	3/16	G 1/4	1/4	53	28	17	19
19255-2-4	6	-04	6.4	1/4	G 1/8	1/8	57	25	17	14
19255-4-4	6	-04	6.4	1/4	G 1/4	1/4	58	26	17	19
19255-6-4	6	-04	6.4	1/4	G 3/8	3/8	59	27	17	22
19255-4-5	8	-05	7.9	5/16	G 1/4	1/4	59	27	19	19
19255-6-5	8	-05	7.9	5/16	G 3/8	3/8	59	27	19	22
19255-6-6	10	-06	9.5	3/8	G 3/8	3/8	64	27	19	22
19255-8-6	12	-08	12.7	1/2	G 1/2	1/2	67	30	24	27
19255-10-8	12	-08	12.7	1/2	G 5/8	5/8	75	34	27	30
19255-12-12	20	-12	19.0	3/4	G 3/4	3/4	81	35	32	32
19255-16-16	25	-16	25.4	1	G 1	1	99	39	36	41




Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Note: 56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

1B455 BSP – Swivel Female 90° Compact Elbow



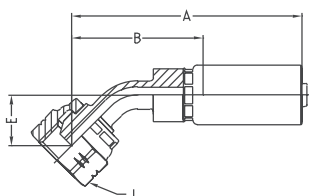
55 Series

Part No. #	DN size mm inch				Connection Type Thread Size	A mm	B mm	J mm
								
1B455-4-4	6	-04	6.4	1/4	G 1/4	53	21	19
1B455-6-6	10	-06	9.5	3/8	G 3/8	61	25	22
1B455-8-8	12	-08	12.7	1/2	G 1/2	68	27	27


Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Note: 56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

1B155 – Sealing Head (60°) 45° Elbow BSP Swivel Nut



55 Series

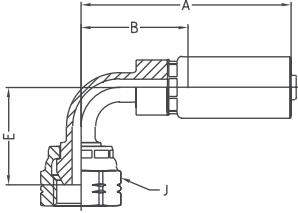
Part No. #	DN size mm inch				Connection Type		A mm	B mm	E mm	J mm
					Thread Size	Tube OD				
1B155-4-4	6	-04	6.4	1/4	G 1/4	1/4	73	41	16	19
1B155-6-5	8	-05	7.9	5/16	G 3/8	3/8	74	42	16	22
1B155-6-6	10	-06	9.5	3/8	G 3/8	3/8	81	45	17	22
1B155-8-8	12	-08	12.7	1/2	G 1/2	1/2	91	49	20	27
1B155-10-8	12	-08	12.7	1/2	G 5/8	5/8	89	48	19	30
1B155-12-12	20	-12	19.0	3/4	G 3/4	3/4	107	61	25	32
1B155-16-16	25	-16	25.4	1	G 1	1	131	71	29	41

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Note: 56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

1B255 – Sealing Head (60°) 90° Elbow BSP Swivel Nut

55 Series



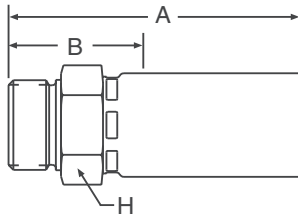
Part No. #	DN size mm inch				Connection Type		A mm	B mm	E mm	J mm
	Thread Size	Tube OD								
1B255-4-3	5	-03	4.8	3/16	G 1/4	1/4	57	32	28	19
1B255-4-4	6	-04	6.4	1/4	G 1/4	1/4	64	32	28	19
1B255-6-5	8	-05	7.9	5/16	G 3/8	3/8	65	33	30	22
1B255-6-6	10	-06	9.5	3/8	G 3/8	3/8	73	36	33	22
1B255-8-8	12	-08	12.7	1/2	G 1/2	1/2	82	41	40	27
1B255-10-8	12	-08	12.7	1/2	G 5/8	5/8	82	41	38	30
1B255-12-12	20	-12	19.0	3/4	G 3/4	3/4	100	54	53	32
1B255-16-16	25	-16	25.4	1	G 1	1	127	67	65	41

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Note: 56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

1D955 – BSP Male DIN 3852 Shape A

55 Series



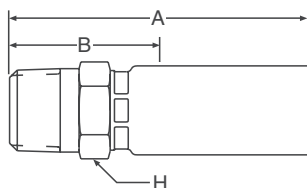
Part No. #	DN size mm inch				Connection Type		A mm	B mm	H mm
	Thread Size	Tube OD							
1D955-4-4	6	-04	6.4	1/4	G 1/4	1/4	58	26	19
1D955-6-5	8	-05	7.9	5/16	G 3/8	3/8	59	27	22
1D955-6-6	10	-06	9.5	3/8	G 3/8	3/8	64	27	22
1D955-8-8	12	-08	12.7	1/2	G 1/2	1/2	72	31	27
1D955-12-12	20	-12	19.0	3/4	G 3/4	3/4	80	34	32
1D955-16-16	25	-16	25.4	1	G 1	1	95	35	41

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Note: 56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

10155 – NPTF Male - 60° Flare

55 Series



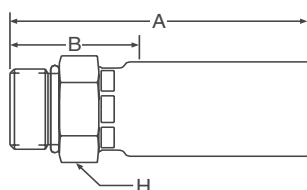
Part No. #	DN size mm inch				Connection Type		A mm	B mm	H mm
					Thread Size 	Tube OD 			
10155-2-3	5	-03	4.8	3/16	1/8 - 27NPTF	1/8	51	26	14
10155-4-3	5	-03	4.8	3/16	1/4 - 18NPTF	1/4	55	30	17
10155-6-3	5	-03	4.8	3/16	3/8 - 18NPTF	3/8	54	29	19
10155-2-4	6	-04	6.4	1/4	1/8 - 27NPTF	1/8	54	22	17
10155-4-4	6	-04	6.4	1/4	1/4 - 18NPTF	1/4	62	30	17
10155-6-4	6	-04	6.4	1/4	3/8 - 18NPTF	3/8	61	29	19
10155-4-5	8	-05	7.9	5/16	1/4 - 18NPTF	1/4	59	27	17
10155-6-5	8	-05	7.9	5/16	3/8 - 18NPTF	3/8	61	29	19
10155-4-6	10	-06	9.5	3/8	1/4 - 18NPTF	1/4	66	30	19
10155-6-6	10	-06	9.5	3/8	3/8 - 18NPTF	3/8	70	33	19
10155-8-6	10	-06	9.5	3/8	1/2 - 14NPTF	1/2	77	40	27
10155-6-8	12	-08	12.7	1/2	3/8 - 18NPTF	3/8	71	30	22
10155-8-8	12	-08	12.7	1/2	1/2 - 14NPTF	1/2	77	36	27
10155-12-12	20	-12	19.0	3/4	3/4 - 14NPTF	3/4	82	36	30
10155-16-16	25	-06	25.4	1	1 - 11 1/2NPTF	1	104	44	41

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Note: 56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

10555 – UNF Male / O-Ring

55 Series



Part No. #	DN size mm inch				Connection Type		A mm	B mm	H mm
					Thread Size 	Tube OD 			
10555-4-3	5	-03	4.8	3/16	7/16 - 20UNF	1/4	47	22	14
10555-4-4	6	-04	6.4	1/4	7/16 - 20UNF	1/4	57	25	17
10555-5-4	6	-04	6.4	1/4	1/2 - 20UNF	5/16	54	22	17
10555-6-4	6	-04	6.4	1/4	9/16 - 18UNF	3/8	58	26	19
10555-4-5	8	-05	7.9	5/16	7/16 - 20UNF	1/4	53	22	17
10555-5-5	8	-05	7.9	5/16	1/2 - 20UNF	5/16	53	22	17
10555-6-6	10	-06	9.5	3/8	9/16 - 18UNF	3/8	61	25	19
10555-8-6	10	-06	9.5	3/8	3/4 - 16UNF	1/2	63	26	22
10555-8-8	12	-08	12.7	1/2	3/4 - 16UNF	1/2	67	26	22
10555-10-8	12	-08	12.7	1/2	7/8 - 14UNF	5/8	70	29	24

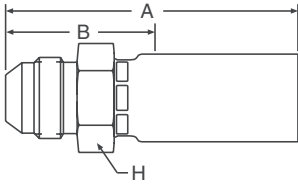
Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Note: 56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

10355 – JIC Male

37° Cone

55 Series



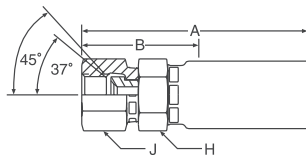
Part No. #	DN size mm inch				Connection Type		A mm	B mm	H mm
	mm	inch	mm	inch	Thread Size	Tube OD			
10355-4-3	5	-03	4.8	3/16	7/16 - 20UNF	1/4	52	27	14
10355-4-4	6	-04	6.4	1/4	7/16 - 20UNF	1/4	58	27	17
10355-5-4	6	-04	6.4	1/4	1/2 - 20UNF	5/16	58	27	17
10355-6-4	6	-04	6.4	1/4	1/2 - 20UNF	5/16	59	27	17
10355-5-5	8	-05	7.9	5/16	9/16 - 18UNF	3/8	62	30	17
10355-6-5	8	-05	7.9	5/16	9/16 - 18UNF	3/8	62	30	17
10355-6-6	10	-06	9.5	3/8	9/16 - 18UNF	3/8	70	33	19
10355-8-6	10	-06	9.5	3/8	3/4 - 16UNF	1/2	68	32	22
10355-8-8	12	-08	12.7	1/2	3/4 - 16UNF	1/2	73	32	22
10355-10-8	12	-08	12.7	1/2	7/8 - 14UNF	5/8	81	40	27
10355-12-12	20	-12	19.0	3/4	1 1/16 - 12UNF	3/4	84	38	30
10355-16-16	25	-06	25.4	1	1 5/16 - 12UNF	1	104	44	36

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Note: 56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

10655 – JIC - 37° Flare UNF Swivel Nut

55 Series



Part No. #	DN size mm inch				Connection Type		A mm	B mm	H mm	J mm
	Thread Size	Tube OD								
10655-4-2	3	-02	3.2	1/8	7/16 - 20UNF	1/4	44	27	13	16
10655-4-3	5	-03	4.8	3/16	7/16 - 20UNF	1/4	55	30	16	17
10655-5-3	5	-03	4.8	3/16	1/2 - 20UNF	5/16	57	32	16	17
10655-4-4	6	-04	6.4	1/4	7/16 - 20UNF	1/4	65	33	17	17
10655-5-4	6	-04	6.4	1/4	1/2 - 20UNF	5/16	65	33	16	17
10655-6-4	6	-04	6.4	1/4	9/16 - 18UNF	3/8	67	35	17	19
10655-5-5	8	-05	7.9	5/16	1/2 - 20UNF	5/16	65	33	16	17
10655-6-5	8	-05	7.9	5/16	9/16 - 18UNF	3/8	65	33	16	19
10655-8-5	8	-05	7.9	5/16	3/4 - 16UNF	1/2	68	37	19	22
10655-6-6	10	-06	9.5	3/8	9/16 - 18UNF	3/8	69	33	19	19
10655-8-6	10	-06	9.5	3/8	3/4 - 16UNF	1/2	72	35	19	24
10655-6-8	12	-08	12.7	1/2	9/16 - 18UNF	3/8	76	35	22	19
10655-8-8	12	-08	12.7	1/2	3/4 - 16UNF	1/2	79	38	22	22
10655-10-8	12	-08	12.7	1/2	7/8 - 14UNF	5/8	82	41	22	27
10655-12-8	12	-08	12.7	1/2	1 1/16 - 12UNF	3/4	83	42	27	32
10655-12-12	20	-12	19.0	3/4	1 1/16 - 12UNF	3/4	88	42	30	32
10655-16-16	25	-16	25.4	1	1 5/16 - 12UNF	1	104	44	36	38

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Note: 56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

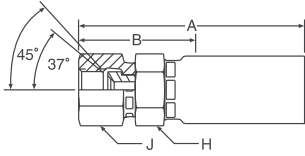





10655 – JIC - 37° Flare

UNF Swivel Nut

Material: Stainless steel (AISI 316)

55 Series



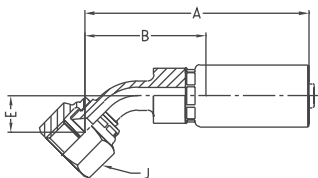
Part No. #	DN size mm inch				Connection Type		A mm	B mm	H mm	J mm
					Thread Size 	Tube OD 				
10655-4-3C	5	-03	4.8	3/16	7/16 - 20UNF	1/4	55	30	16	17
10655-4-4C	6	-04	6.4	1/4	7/16 - 20UNF	1/4	65	33	17	17
10655-5-4C	6	-04	6.4	1/4	1/2 - 20UNF	5/16	65	33	16	17
10655-6-4C	6	-04	6.4	1/4	9/16 - 18UNF	3/8	67	35	17	19
10655-6-5C	8	-05	7.9	5/16	9/16 - 18UNF	3/8	65	33	16	19
10655-6-6C	10	-06	9.5	3/8	9/16 - 18UNF	3/8	69	33	19	19
10655-8-6C	10	-06	9.5	3/8	3/4 - 16UNF	1/2	72	35	19	24
10655-8-8C	12	-08	12.7	1/2	3/4 - 16UNF	1/2	79	38	22	22
10655-10-8C	12	-08	12.7	1/2	7/8 - 14UNF	5/8	82	41	22	27
10655-12-12C	20	-12	19.0	3/4	1 1/16 - 12UNF	3/4	88	42	30	32
10655-16-16C	25	-16	25.4	1	1 5/16 - 12UNF	1	104	44	36	38

Material: Stainless steel (AISI 316)

Note: 56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

13755 – JIC - 37° Flare 45° Elbow UNF Swivel Nut

55 Series



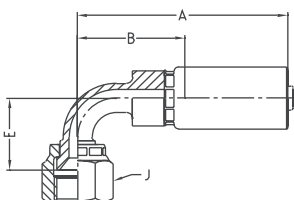
Part No. #	DN size mm inch				Connection Type		A mm	B mm	E mm	J mm
	mm	inch	Thread Size	Tube OD						
13755-4-3-SM	5	-03	4.8	3/16	7/16 - 20UNF	1/4	61	30	11	17
13755-4-4-SM	6	-04	6.4	1/4	7/16 - 20UNF	1/4	68	36	10	17
13755-5-4-SM	6	-04	6.4	1/4	1/2 - 20UNF	5/16	70	38	13	17
13755-6-5-SM	8	-05	7.9	5/16	9/16 - 18UNF	3/8	69	37	11	19
13755-6-6-SM	10	-06	9.5	3/8	9/16 - 18UNF	3/8	77	40	14	19
13755-8-6-SM	10	-06	9.5	3/8	3/4 - 16UNF	1/2	78	42	15	22
13755-8-8-SM	12	-08	12.7	1/2	3/4 - 16UNF	1/2	83	42	14	22
13755-10-8-SM	12	-08	12.7	1/2	7/8 - 14UNF	5/8	85	44	16	27
13755-12-12-SM	20	-12	19.0	3/4	1 1/16 - 12UNF	3/4	100	54	20	32
13755-16-16-SM	25	-16	25.4	1	1 5/16 - 12UNF	1	124	64	24	41

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Note: 56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

13955 – JIC - 37° Flare 90° Elbow UNF Swivel Nut

55 Series



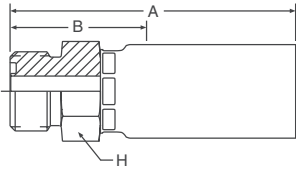
Part No. #	DN size mm inch				Connection Type		A mm	B mm	E mm	J mm
	mm	inch	Thread Size	Tube OD						
13955-4-3-SM	5	-03	4.8	3/16	7/16 - 20UNF	1/4	55	30	21	17
13955-4-4-SM	6	-04	6.4	1/4	7/16 - 20UNF	1/4	64	32	21	17
13955-5-4-SM	6	-04	6.4	1/4	1/2 - 20UNF	5/16	64	32	25	17
13955-6-4-SM	6	-04	6.4	1/4	9/16 - 18UNF	3/8	64	32	22	19
13955-6-5-SM	8	-05	7.9	5/16	9/16 - 18UNF	3/8	65	33	22	19
13955-6-6-SM	10	-06	9.5	3/8	9/16 - 18UNF	3/8	73	36	28	19
13955-8-6-SM	10	-06	9.5	3/8	3/4 - 16UNF	1/2	71	34	29	22
13955-8-8-SM	12	-08	12.7	1/2	3/4 - 16UNF	1/2	77	36	29	22
13955-10-8-SM	12	-08	12.7	1/2	7/8 - 14UNF	5/8	77	36	32	27
13955-12-12-SM	20	-12	19.0	3/4	1 1/16 - 12UNF	3/4	97	51	46	32
13955-16-16-SM	25	-16	25.4	1	1 5/16 - 12UNF	1	121	61	55	41

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Note: 56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

1JM55 – O-Lok® ORFS Male

55 Series



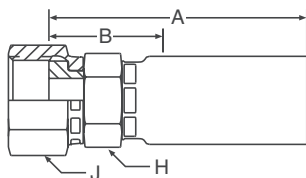
Part No. #	DN size mm inch				Connection Type		A mm	B mm	H mm
1JM55-4-4-SM	6	-04	6.4	1/4	9/16 - 18UNF	1/4	56	24	19
1JM55-6-6-SM	10	-06	9.5	3/8	11/16 - 16UNF	3/8	63	26	19
1JM55-8-6-SM	10	-06	9.5	3/8	13/16 - 16UNF	1/2	65	28	22

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Note: 56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

1JC55 – O-Lok® ORFS (Short Version) UNF Swivel Nut

55 Series



Part No. #	DN size mm inch			Connection Type		A mm	B mm	H mm	J mm	
	mm	inch	Thread Size	Tube OD						
1JC55-4-3-SM	5	-03	4.8	3/16	9/16 - 18UNF	1/4	47	22	17	17
1JC55-4-4-SM	6	-04	6.4	1/4	9/16 - 18UNF	1/4	53	22	17	17
1JC55-6-4-SM	6	-04	6.4	1/4	11/16 - 16UNF	3/8	59	27	19	22
1JC55-4-5-SM	8	-05	7.9	5/16	9/16 - 16UNF	1/4	53	22	17	17
1JC55-6-5-SM	8	-05	7.9	5/16	11/16 - 16UNF	3/8	56	25	19	22
1JC55-6-6-SM	10	-06	9.5	3/8	11/16 - 16UNF	3/8	61	25	19	22
1JC55-8-6-SM	10	-06	9.5	3/8	13/16 - 16UNF	1/2	63	27	22	24
1JC55-8-8-SM	12	-08	12.7	1/2	13/16 - 16UNF	1/2	69	27	24	24
1JC55-10-8-SM	12	-08	12.7	1/2	1 - 14UNF	5/8	73	32	30	30
1JC55-12-12-SM	20	-12	19.0	3/4	1 3/16 - 12UNF	3/4	79	33	32	36
1JC55-16-16-SM	25	-16	25.4	1	1 7/16 - 12UNF	1	96	36	36	41

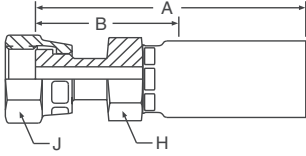
Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Note: 56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.



1JS55 – O-Lok® ORFS UNF Swivel Nut

55 Series



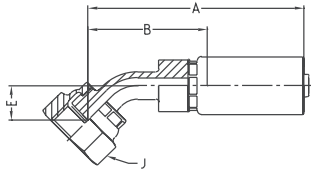
Part No. #	DN size				Connection Type		A mm	B mm	H mm	J mm
	mm	inch	Thread Size	Tube OD						
1JS55-4-3-SM	5	-03	4.8	3/16	9/16 - 18UNF	1/4	60	35	17	17
1JS55-4-4-SM	6	-04	6.4	1/4	9/16 - 18UNF	1/4	67	35	17	17
1JS55-6-4-SM	6	-04	6.4	1/4	11/16 - 16UNF	3/8	66	35	19	22
1JS55-4-5-SM	8	-05	7.9	5/16	9/16 - 16UNF	1/4	67	35	17	17
1JS55-6-5-SM	8	-05	7.9	5/16	11/16 - 16UNF	3/8	66	35	19	22
1JS55-6-6-SM	10	-06	9.5	3/8	11/16 - 16UNF	3/8	71	35	19	22
1JS55-8-6-SM	10	-06	9.5	3/8	13/16 - 16UNF	1/2	75	38	22	24
1JS55-8-8-SM	12	-08	12.7	1/2	13/16 - 16UNF	1/2	80	38	22	24
1JS55-10-10-SM	16	-10	15.9	5/8	1 - 14UNF	5/8	90	44	30	30
1JS55-12-12-SM	20	-12	19.0	3/4	1 3/16 - 12UNF	3/4	94	48	32	36
1JS55-16-16-SM	25	-16	25.4	1	1 7/16 - 12UNF	1	112	52	36	41

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Note: 56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

1J755 – O-Lok® ORFS 45° Elbow UNF Swivel Nut

55 Series



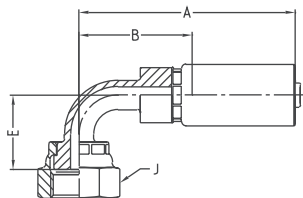
Part No. #	DN size				Connection Type		A mm	B mm	E mm	H mm
	mm	inch	Thread Size	Tube OD						
1J755-4-4	6	-04	6.4	1/4	9/16 - 18UNF	5/16	71	39	10	17
1J755-6-4	6	-04	6.4	1/4	11/16 - 16UNF	3/8	73	41	12	22
1J755-6-6	10	-06	9.5	3/8	11/16 - 16UNF	3/8	78	41	14	22
1J755-8-6	10	-06	9.5	3/8	13/16 - 16UNF	1/2	78	42	14	24
1J755-8-8	12	-08	12.7	1/2	13/16 - 16UNF	1/2	83	42	12	24
1J755-12-12	20	-12	19.0	3/4	1 3/16 - 12UNF	3/4	103	57	21	36
1J755-16-16	25	-16	25.4	1	1 7/16 - 12UNF	1	130	70	26	41

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Note: 56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

1J955 – O-Lok® ORFS 90° Elbow UNF Swivel Nut

55 Series



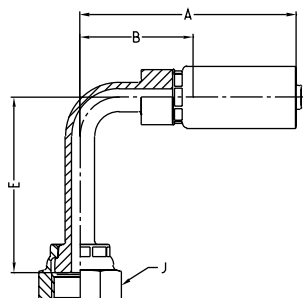
Part No. #	DN size mm inch				Connection Type		A mm	B mm	E mm	J mm
	Thread Size	Tube OD								
1J955-4-4	6	-04	6.4	1/4	9/16 - 18UNF	5/16	67	35	21	17
1J955-6-4	6	-04	6.4	1/4	11/16 - 16UNF	3/8	68	36	23	22
1J955-6-5	8	-05	7.9	5/16	11/16 - 16UNF	3/8	67	35	23	22
1J955-6-6	10	-06	9.5	3/8	11/16 - 16UNF	3/8	72	36	29	22
1J955-8-8	12	-08	12.7	1/2	13/16 - 16UNF	1/2	82	41	29	24
1J955-12-12	20	-12	19.0	3/4	1 3/16 - 12UNF	3/4	100	54	47	36
1J955-16-16	25	-16	25.4	1	1 7/16 - 12UNF	1	128	68	64	41

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Note: 56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

1J155 – O-Lok® ORFS 90° Elbow (Long Drop Length) UNF Swivel Nut

55 Series



Part No. #	DN size mm inch				Connection Type		A mm	B mm	E mm	J mm
	Thread Size	Tube OD								
1J155-4-4	6	-04	6.4	1/4	9/16 - 18UNF	5/16	67	35	46	17
1J155-6-6	10	-06	9.5	3/8	11/16 - 16UNF	3/8	72	36	54	22
1J155-8-6	10	-06	9.5	3/8	13/16 - 16UNF	1/2	72	36	64	24
1J155-8-8	12	-08	12.7	1/2	13/16 - 16UNF	1/2	82	41	64	24
1J155-12-12	20	-12	19.0	3/4	1 3/16 - 12UNF	3/4	100	54	96	36
1J155-16-16	25	-16	25.4	1	1 7/16 - 12UNF	1	128	68	114	41

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

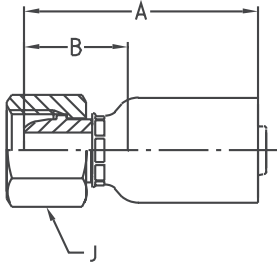
Note: 56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

1C356 – Sealing Head

Light Series

Metric Swivel Nut

DIN 20 078 A



56 Series

Part No. #	DN size mm inch				Connection Type		A mm	B mm	H mm
					Thread Size 	Tube OD 			
1C356-6-3	5	-03	4.8	3/16	M12x1.5	6	37	20	14
1C356-8-4	6	-04	6.4	1/4	M14x1.5	8	44	20	17
1C356-10-4	6	-04	6.4	1/4	M16x1.5	10	45	21	19
1C356-10-5	8	-05	7.9	5/16	M16x1.5	10	46	20	19
1C356-12-5	8	-05	7.9	5/16	M18x1.5	12	47	21	22
1C356-10-6	10	-06	9.5	3/8	M16x1.5	10	46	20	19
1C356-12-6	10	-06	9.5	3/8	M18x1.5	12	47	22	22
1C356-15-8	12	-08	12.7	1/2	M22x1.5	15	50	23	27

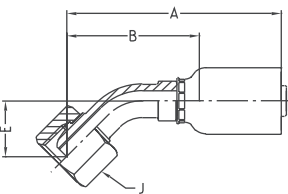
Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1C456 – Sealing Head 45° Elbow

Light Series

Metric Swivel Nut

DIN 20 078 A



56 Series

Part No. #	DN size mm inch				Connection Type		A mm	B mm	E mm	J mm
					Thread Size 	Tube OD 				
1C456-6-3	5	-03	4.8	3/16	M12x1.5	6	57	39	16	14
1C456-8-4	6	-04	6.4	1/4	M14x1.5	8	62	38	16	17
1C456-10-5	8	-05	7.9	5/16	M16x1.5	10	67	41	17	19
1C456-10-6	10	-06	9.5	3/8	M16x1.5	10	67	41	17	19
1C456-12-6	10	-06	9.5	3/8	M18x1.5	12	68	43	18	22
1C456-15-8	12	-08	12.7	1/2	M22x1.5	15	76	47	19	27

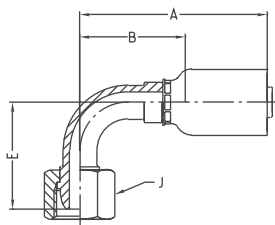
Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1C556 – Sealing Head 90° Elbow

Light Series

Metric Swivel Nut

DIN 20 078 A



56 Series

Part No. #	DN size mm inch				Connection Type		A mm	B mm	E mm	J mm
	mm	inch	Thread Size	Tube OD						
1C556-6-3	5	-03	4.8	3/16	M12x1.5	6	46	28	28	14
1C556-8-4	6	-04	6.4	1/4	M14x1.5	8	53	29	28	17
1C556-10-4	6	-04	6.4	1/4	M16x1.5	10	53	29	29	19
1C556-10-5	8	-05	7.9	5/16	M16x1.5	10	58	33	33	19
1C556-10-6	10	-06	9.5	3/8	M16x1.5	10	58	33	33	19
1C556-12-6	10	-06	9.5	3/8	M18x1.5	12	58	33	34	22
1C556-15-6	10	-06	9.5	3/8	M22x1.5	15	58	33	34	27
1C556-15-8	12	-08	12.7	1/2	M22x1.5	15	68	40	39	27

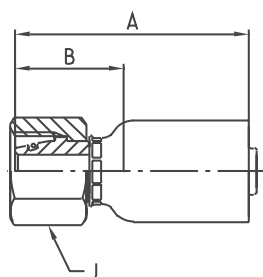
Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1CA56 – 24° Sealing Cone / O-Ring

Light Series

Metric Swivel Nut

DIN 20 078 N



56 Series

Part No. #	DN size mm inch				Connection Type		A mm	B mm	J mm
	mm	inch	Thread Size	Tube OD					
1CA56-6-3	5	-03	4.8	3/16	M12x1.5	6	39	22	14
1CA56-8-4	6	-04	6.4	1/4	M14x1.5	8	47	23	17
1CA56-10-5	8	-05	7.9	5/16	M16x1.5	10	48	22	19
1CA56-12-5	8	-05	7.9	5/16	M18x1.5	12	48	23	22
1CA56-10-6	10	-06	9.5	3/8	M16x1.5	10	48	23	19
1CA56-12-6	10	-06	9.5	3/8	M18x1.5	12	48	23	22
1CA56-15-8	12	-08	12.7	1/2	M22x1.5	15	52	24	27

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request



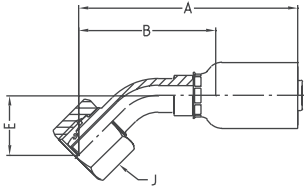
1CE56 – 24° Sealing Cone / O-Ring 45° Elbow

Light Series

Metric Swivel Nut

DIN 20 078 N

56 Series



Part No. #	DN size mm inch				Connection Type		A mm	B mm	E mm	J mm
					Thread Size 	Tube OD 				
1CE56-6-3	5	-03	4.8	3/16	M12x1.5	6	58	40	17	14
1CE56-8-4	6	-04	6.4	1/4	M14x1.5	8	65	40	18	17
1CE56-10-4	6	-04	6.4	1/4	M16x1.5	10	64	40	17	19
1CE56-10-5	8	-05	7.9	5/16	M16x1.5	10	66	40	18	19
1CE56-10-6	10	-06	9.5	3/8	M16x1.5	10	68	43	19	19
1CE56-12-6	10	-06	9.5	3/8	M18x1.5	12	69	44	19	22
1CE56-15-8	12	-08	12.7	1/2	M22x1.5	15	77	49	21	27

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

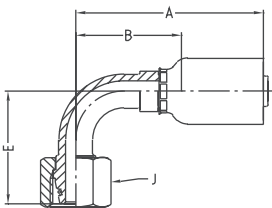
1CF56 – Sealing Cone / O-Ring 90° Elbow

Light Series

Metric Swivel Nut

DIN 20 078 N

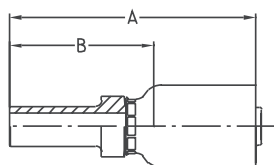
56 Series



Part No. #	DN size mm inch				Connection Type		A mm	B mm	E mm	J mm
					Thread Size 	Tube OD 				
1CF56-6-3	5	-03	4.8	3/16	M12x1.5	6	46	28	30	14
1CF56-8-4	6	-04	6.4	1/6	M14x1.5	8	53	29	32	17
1CF56-10-4	6	-04	6.4	1/6	M16x1.5	10	53	29	31	19
1CF56-10-5	8	-05	7.9	5/16	M16x1.5	10	55	30	32	19
1CF56-12-5	8	-05	7.9	5/16	M18x1.5	12	56	30	33	22
1CF56-10-6	10	-06	9.5	3/8	M16x1.5	10	58	33	35	19
1CF56-12-6	10	-06	9.5	3/8	M18x1.5	12	58	36	33	22
1CF56-15-8	12	-08	12.7	1/2	M22x1.5	15	68	40	41	27

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

11D56 – Metric Standpipe Light Series



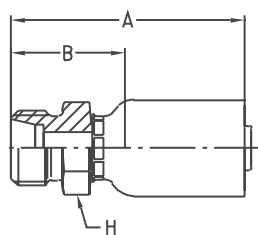
56 Series

Part No. #	DN size mm inch				Tube OD	A mm	B mm
	mm	inch	mm	inch			
11D56-6-3	5	-03	4.8	3/16	6	50	32
11D56-6-4	6	-04	6.4	1/4	6	57	32
11D56-8-4	6	-04	6.4	1/4	8	57	32
11D56-10-5	8	-05	7.9	5/16	10	60	34
11D56-10-6	10	-06	9.5	3/8	10	60	34
11D56-12-6	10	-06	9.5	3/8	12	61	35
11D56-15-8	12	-08	12.7	1/2	15	66	39
11D56-18-8	12	-08	12.7	1/2	18	68	41

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Not recommended for new constructions. Please refer to end connections C3 or CA.

1D056 – Metric Male 24° Flare Light Series DIN 20 078 D



56 Series

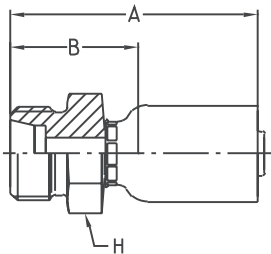
Part No. #	DN size mm inch				Connection Type		A mm	B mm	H mm
	mm	inch	mm	inch	Thread Size	Tube OD			
1D056-6-3	5	-03	4.8	3/16	M12x1.5	6	41	23	12
1D056-8-4	6	-04	6.4	1/4	M14x1.5	8	48	23	14
1D056-10-5	8	-05	7.9	5/16	M16x1.5	10	50	24	17
1D056-12-5	8	-05	7.9	5/16	M18x1.5	12	52	26	19
1D056-10-6	10	-06	9.5	3/8	M16x1.5	10	50	25	17
1D056-12-6	10	-06	9.5	3/8	M18x1.5	12	52	26	19
1D056-15-6	10	-06	9.5	3/8	M22x1.5	15	53	27	22
1D056-15-8	12	-08	12.7	1/2	M22x1.5	15	56	28	22

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request



1D256 – Metric Male 24° Flare Heavy Series DIN 20 078 E

56 Series

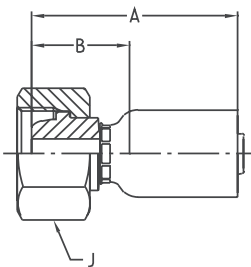


Part No. #	DN size mm inch				Connection Type			A mm	B mm	H mm
	Thread Size	Tube OD								
1D256-8-3	5	-03	4.8	3/16	M16x1.5	8	43	25	17	
1D256-10-4	6	-04	6.4	1/4	M18x1.5	10	52	27	19	
1D256-12-5	8	-05	7.9	5/16	M20x1.5	12	53	27	22	
1D256-14-6	10	-06	9.5	3/8	M22x1.5	14	57	31	24	
1D256-16-6	10	-06	9.5	3/8	M24x1.5	16	57	31	24	
1D256-16-8	12	-08	12.7	1/2	M24x1.5	16	60	32	24	

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1C656 – Sealing Head Heavy Series Metric Swivel Nut

56 Series



Part No. #	DN size mm inch				Connection Type			A mm	B mm	J mm
	Thread Size	Tube OD								
1C656-8-3	5	-03	4.8	3/16	M16x1.5	8	37	20	19	
1C656-10-4	6	-04	6.4	1/4	M18x1.5	10	46	22	22	
1C656-12-5	8	-05	7.9	5/16	M20x1.5	12	50	24	24	
1C656-14-6	10	-06	9.5	3/8	M22x1.5	14	49	24	27	
1C656-16-8	12	-08	12.7	1/2	M24x1.5	16	53	27	30	

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

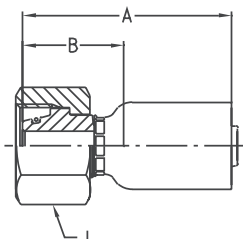
1C956 – 24° Sealing Cone / O-Ring

Heavy Series

Metric Swivel Nut

DIN 20 078 P

56 Series



Part No. #	DN size mm inch				Connection Type		A mm	B mm	J mm
	mm	inch	mm	inch	Thread Size	Tube OD			
1C956-8-3	5	-03	4.8	3/16	M16x1.5	8	41	23	19
1C956-8-4	6	-04	6.4	1/4	M16x1.5	8	48	23	19
1C956-10-4	6	-04	6.4	1/4	M18x1.5	10	48	23	22
1C956-12-4	6	-04	6.4	1/4	M20x1.5	12	49	24	24
1C956-10-5	8	-05	7.9	5/16	M18x1.5	10	49	23	22
1C956-12-5	8	-05	7.9	5/16	M20x1.5	12	50	24	24
1C956-12-6	10	-06	9.5	3/8	M20x1.5	12	49	24	24
1C956-14-6	10	-06	9.5	3/8	M22x1.5	14	49	24	27
1C956-16-8	12	-08	12.7	1/2	M24x1.5	16	55	27	30

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

10C56 – 24° Sealing Cone / O-Ring 45° Elbow

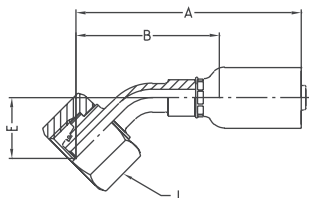
Heavy Series

Metric Swivel Nut

DIN 20 078 P



56 Series



Part No. #	DN size mm inch				Connection Type		A mm	B mm	E mm	J mm
	mm	inch	mm	inch	Thread Size	Tube OD				
10C56-10-4	6	-04	6.4	1/4	M18x1.5	10	65	40	18	22
10C56-12-5	8	-05	7.9	5/16	M20x1.5	12	70	45	19	24
10C56-12-6	10	-06	9.5	3/8	M20x1.5	12	70	45	20	24
10C56-16-8	12	-08	12.7	1/2	M24x1.5	16	80	51	23	30

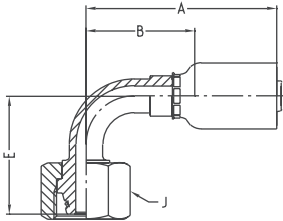
Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

11C56 – 24° Sealing Cone / O-Ring 90° Elbow

Heavy Series

Metric Swivel Nut

DIN 20 078 P



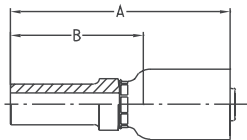
56 Series

Part No. #	DN size mm inch				Connection Type		A mm	B mm	E mm	J mm
					Thread Size 	Tube OD 				
11C56-10-4	6	-04	6.4	1/4	M18x1.5	10	53	29	32	22
11C56-12-5	8	-05	7.9	5/16	M20x1.5	12	58	33	34	24
11C56-12-6	10	-06	9.5	3/8	M20x1.5	12	59	34	37	24
11C56-16-8	12	-08	12.7	1/2	M24x1.5	16	68	40	45	30

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

13D56 – Metric Standpipe

Heavy Series



56 Series

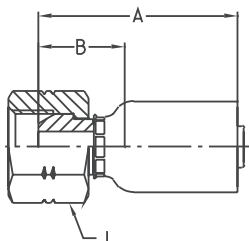
Part No. #	DN size mm inch				Tube OD	A mm	B mm
13D56-8-3	5	-03	4.8	3/16	8	52	34
13D56-8-4	6	-04	6.4	1/4	8	59	34
13D56-10-4	6	-04	6.4	1/4	10	61	36
13D56-12-5	8	-05	7.9	5/16	12	63	37
13D56-12-6	10	-06	9.5	3/8	12	64	38
13D56-14-6	10	-06	9.5	3/8	14	67	41
13D56-16-8	12	-08	12.7	1/2	16	71	44

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Not recommended for new constructions. Please refer to end connections C9.

19256 – Sealing Head (60°) BSP Swivel Nut

56 Series



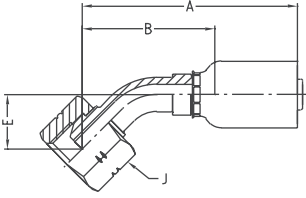
Part No. #	DN size mm inch				Connection Type			A mm	B mm	J mm
	5	6	8	10	Thread Size	Tube OD	J			
19256-4-3	5	-03	4.8	3/16	G 1/4	1/4	37	19	19	
19256-2-4	6	-04	6.4	1/4	G 1/8	1/8	43	18	14	
19256-4-4	6	-04	6.4	1/4	G 1/4	1/4	44	20	19	
19256-6-4	6	-04	6.4	1/4	G 3/8	3/8	44	20	22	
19256-4-5	8	-05	7.9	5/16	G 1/4	1/4	45	20	19	
19256-6-5	8	-05	7.9	5/16	G 3/8	3/8	45	20	22	
19256-6-6	10	-06	9.5	3/8	G 3/8	3/8	45	20	22	
19256-8-6	12	-08	12.7	1/2	G 1/2	1/2	47	22	27	
19256-8-8	12	-08	12.7	1/2	G 1/2	1/2	51	22	27	
19256-10-8	12	-08	12.7	1/2	G 5/8	5/8	49	22	30	

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request



1B156 – Sealing Head (60°) 45° Elbow BSP Swivel Nut

56 Series

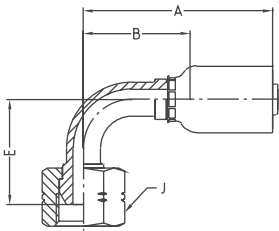


Part No. #	DN size mm inch				Connection Type		A mm	B mm	E mm	J mm
	Thread Size	Tube OD								
1B156-4-4	6	-04	6.4	1/4	G 1/4	1/4	62	38	16	19
1B156-6-5	8	-05	7.9	5/16	G 3/8	3/8	64	39	16	22
1B156-6-6	10	-06	9.5	3/8	G 3/8	3/8	66	41	17	22
1B156-8-8	12	-08	12.7	1/2	G 1/2	1/2	76	48	20	27
1B156-10-8	12	-08	12.7	1/2	G 5/8	5/8	75	48	19	30

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1B256 – Sealing Head (60°) 90° Elbow BSP Swivel Nut

56 Series

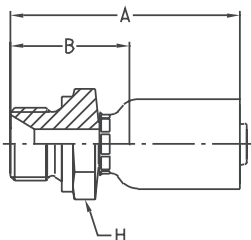


Part No. #	DN size mm inch				Connection Type		A mm	B mm	E mm	J mm
	Thread Size	Tube OD								
1B256-4-3	5	-03	4.8	3/16	G 1/4	1/4	46	28	28	19
1B256-4-4	6	-04	6.4	1/4	G 1/4	1/4	53	29	28	19
1B256-6-5	8	-05	7.9	5/16	G 3/8	3/8	55	30	30	22
1B256-6-6	10	-06	9.5	3/8	G 3/8	3/8	58	33	33	22
1B256-8-8	12	-08	12.7	1/2	G 1/2	1/2	68	40	40	27
1B256-10-8	12	-08	12.7	1/2	G 5/8	5/8	68	41	38	30

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1D956 – BSP Male DIN 3852 Shape A

56 Series

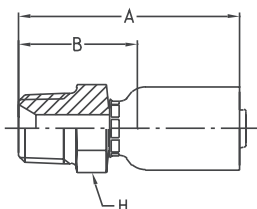


Part No. #	DN size mm inch				Connection Type		A mm	B mm	H mm
	mm	inch	mm	inch	Thread Size	Tube OD			
1D956-4-4	6	-04	6.4	1/4	G 1/4	1/4	52	27	19
1D956-6-5	8	-05	7.9	5/16	G 3/8	3/8	53	27	22
1D956-6-6	10	-06	9.5	3/8	G 3/8	3/8	53	28	22
1D956-8-8	12	-08	12.7	1/2	G 1/2	1/2	60	32	27

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

10156 – NPTF Male - 60° Flare

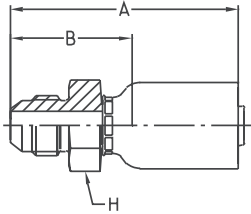
56 Series



Part No. #	DN size mm inch				Connection Type		A mm	B mm	H mm
	mm	inch	mm	inch	Thread Size	Tube OD			
10156-2-3	5	-03	4.8	3/16	1/8 - 27NPTF	1/8	41	23	14
10156-4-3	5	-03	4.8	3/16	1/4 - 18NPTF	1/4	45	27	16
10156-6-3	5	-03	4.8	3/16	3/8 - 18NPTF	3/8	48	30	19
10156-2-4	6	-04	6.4	1/4	1/8 - 27NPTF	1/8	49	24	14
10156-4-4	6	-04	6.4	1/4	1/4 - 18NPTF	1/4	52	28	16
10156-6-4	6	-04	6.4	1/4	3/8 - 18NPTF	3/8	54	30	19
10156-4-5	8	-05	7.9	5/16	1/4 - 18NPTF	1/4	54	28	16
10156-6-5	8	-05	7.9	5/16	3/8 - 18NPTF	3/8	56	30	19
10156-4-6	10	-06	9.5	3/8	1/4 - 18NPTF	1/4	55	30	19
10156-6-6	10	-06	9.5	3/8	3/8 - 18NPTF	3/8	55	30	19
10156-8-6	10	-06	9.5	3/8	1/2 - 14NPTF	1/2	60	35	22
10156-6-8	12	-08	12.7	1/2	3/8 - 18NPTF	3/8	58	31	19
10156-8-8	12	-08	12.7	1/2	1/2 - 14NPTF	1/2	63	35	22

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

10356 – JIC Male 37° Cone

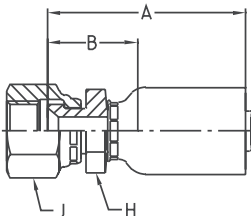


56 Series

Part No. #	DN size mm inch				Connection Type		A mm	B mm	H mm
	mm	inch	Thread Size	Tube OD					
10356-4-3	5	-03	4.8	3/16	3/8 - 24UNF	1/4	45	27	14
10356-4-4	6	-04	6.4	1/4	7/16 - 20UNF	1/4	52	27	14
10356-5-4	6	-04	6.4	1/4	1/2 - 20UNF	5/16	52	27	14
10356-6-4	6	-04	6.4	1/4	1/2 - 20UNF	5/16	54	30	19
10356-5-5	8	-05	7.9	5/16	9/16 - 18UNF	3/8	53	27	14
10356-6-5	8	-05	7.9	5/16	9/16 - 18UNF	3/8	55	29	19
10356-6-6	10	-06	9.5	3/8	9/16 - 18UNF	3/8	55	30	19
10356-8-6	10	-06	9.5	3/8	3/4 - 16UNF	1/2	57	32	22
10356-8-8	12	-08	12.7	1/2	3/4 - 16UNF	1/2	61	32	22
10356-10-8	12	-08	12.7	1/2	7/8 - 14UNF	5/8	65	37	22

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

10656 – JIC - 37° Flare UNF Swivel Nut



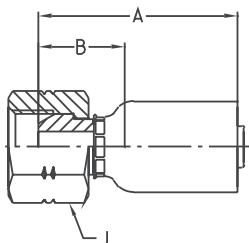
56 Series



Part No. #	DN size mm inch				Connection Type		A mm	B mm	H mm	J mm
	mm	inch	Thread Size	Tube OD						
10656-4-3	5	-03	4.8	3/16	7/16 - 20UNF	1/4	36	19	12	17
10656-5-3	5	-03	4.8	3/16	1/2 - 20UNF	5/16	37	20	12	17
10656-4-4	6	-04	6.4	1/4	7/16 - 20UNF	1/4	44	19	14	17
10656-5-4	6	-04	6.4	1/4	1/2 - 20UNF	5/16	44	20	14	17
10656-6-4	6	-04	6.4	1/4	9/16 - 18UNF	3/8	45	20	14	19
10656-5-5	8	-05	7.9	5/16	1/2 - 20UNF	5/16	46	21	14	17
10656-6-5	8	-05	7.9	5/16	9/16 - 18UNF	3/8	47	21	17	19
10656-8-5	8	-05	7.9	5/16	3/4 - 16UNF	1/2	49	23	17	22
10656-6-6	10	-06	9.5	3/8	9/16 - 18UNF	3/8	47	22	17	19
10656-8-6	10	-06	9.5	3/8	3/4 - 16UNF	1/2	49	24	19	22
10656-6-8	12	-08	12.7	1/2	9/16 - 18UNF	3/8	52	25	22	19
10656-8-8	12	-08	12.7	1/2	3/4 - 16UNF	1/2	54	27	22	22
10656-10-8	12	-08	12.7	1/2	7/8 - 14UNF	5/8	54	26	24	27
10656-12-8	12	-08	12.7	1/2	1 1/16 - 12UNF	3/4	54	27	24	32

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1U056 – Sealing Head (60°) BSP Swivel Nut

56 Series

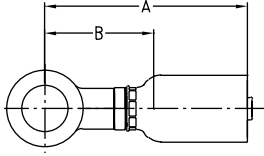


Part No. #	Part No. #	DN size mm inch				Connection Type	A mm	B mm	J mm
						Thread Size 			
1U056-4-4	1U056-4-4 C2W	6	-04	6.4	1/4	G 1/4	44	20.0	19
1U056-6-4	1U056-6-4 C2W	6	-04	6.4	1/4	G 3/8	45	20.5	22

Material: Steel, surface protection according to DIN 50 961 Fe/Zn,
C2W includes stainless steel nipple (material 1.4301)



14956 – Banjo Union DIN 7642

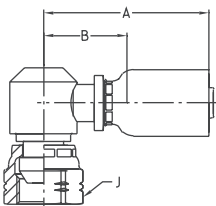


56 Series

Part No. #	DN size mm inch				Tube OD	A mm	B mm
	○				○		
14956-10-4	6	-04	6.4	1/4	10	51	27
14956-12-4	6	-04	6.4	1/4	12	53	29
14956-14-4	6	-04	6.4	1/4	14	56	32
14956-12-5	8	-05	7.9	5/16	12	55	30
14956-14-5	8	-05	7.9	5/16	14	57	32
14956-12-6	10	-06	9.5	3/8	12	55	31

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1B456 BSP – Swivel Female 90° Compact Elbow



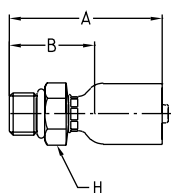
56 Series

Part No. #	DN size mm inch				Connection Type Thread Size	A mm	B mm	J mm
	○				⚙			⬡
1B456-4-4	6	-04	6.4	1/4	G 1/4	47	23	19
1B456-6-6	10	-06	9.5	3/8	G 3/8	52	27	22
1B456-8-8	12	-08	12.7	1/2	G 1/2	58	31	27

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

10556 – UNF Male / O-Ring

56 Series



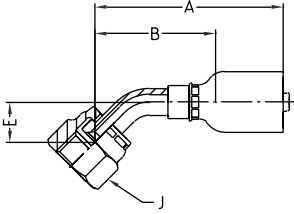
Part No. #	DN size mm inch				Connection Type		A mm	B mm	H mm
					Thread Size 	Tube OD 			
10556-4-3	5	-03	4.8	3/16	7/16 - 20UNF	1/4	40	22	14
10556-4-4	6	-04	6.4	1/4	7/16 - 20UNF	1/4	47	22	14
10556-5-4	6	-04	6.4	1/4	1/2 - 20UNF	5/16	47	23	17
10556-6-4	6	-04	6.4	1/4	9/16 - 18UNF	3/8	51	27	19
10556-4-5	8	-05	7.9	5/16	7/16 - 20UNF	1/4	48	22	14
10556-5-5	8	-05	7.9	5/16	1/2 - 20UNF	5/16	49	23	17
10556-6-6	10	-06	9.5	3/8	9/16 - 18UNF	3/8	52	26	19
10556-8-6	10	-06	9.5	3/8	3/4 - 16UNF	1/2	52	27	22
10556-8-8	12	-08	12.7	1/2	3/4 - 16UNF	1/2	55	28	22
10556-10-8	12	-08	12.7	1/2	7/8 - 14UNF	5/8	57	30	27

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request



13756 – JIC - 37° Flare 45° Elbow UNF Swivel Nut

56 Series

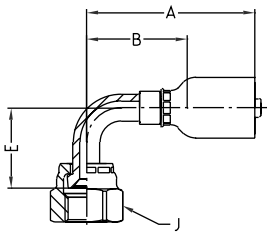


Part No. #	DN size				Connection Type		A mm	B mm	E mm	J mm
	mm	inch	Thread Size	Tube OD						
13756-4-3	5	-03	4.8	3/16	7/16 - 20UNF	1/4	49	32	11	17
13756-4-4	6	-04	6.4	1/4	7/16 - 20UNF	1/4	57	33	11	17
13756-5-4	6	-04	6.4	1/4	1/2 - 20UNF	5/16	58	33	11	17
13756-6-5	8	-05	7.9	5/16	9/16 - 18UNF	3/8	59	34	11	19
13756-6-6	10	-06	9.5	3/8	9/16 - 18UNF	3/8	60	36	11	19
13756-8-6	10	-06	9.5	3/8	3/4 - 16UNF	1/2	64	39	15	22
13756-8-8	12	-08	12.7	1/2	3/4 - 16UNF	1/2	69	42	14	22
13756-10-8	12	-08	12.7	1/2	7/8 - 14UNF	5/8	70	43	16	27

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

13956 – JIC - 37° Flare 90° Elbow UNF Swivel Nut

56 Series

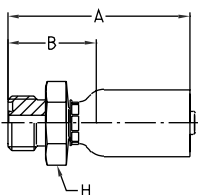


Part No. #	DN size				Connection Type		A mm	B mm	E mm	J mm
	mm	inch	Thread Size	Tube OD						
13956-4-3	5	-03	4.8	3/16	7/16 - 20UNF	1/4	44	26	21.0	17
13956-4-4	6	-04	6.4	1/4	7/16 - 20UNF	1/4	53	29	21.0	17
13956-5-4	6	-04	6.4	1/4	1/2 - 20UNF	5/16	53	29	21.5	17
13956-6-4	6	-04	6.4	1/4	9/16 - 18UNF	3/8	53	29	22.0	19
13956-6-5	8	-05	7.9	5/16	9/16 - 18UNF	3/8	55	30	23.0	19
13956-6-6	10	-06	9.5	3/8	9/16 - 18UNF	3/8	56	31	23.0	19
13956-8-6	10	-06	9.5	3/8	3/4 - 16UNF	1/2	56	31	29.0	22
13956-8-8	12	-08	12.7	1/2	3/4 - 16UNF	1/2	63	37	29.0	22
13956-10-8	12	-08	12.7	1/2	7/8 - 14UNF	5/8	63	37	31.5	27

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1JM56 – O-Lok® ORFS Male

56 Series

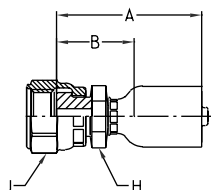


Part No. #	DN size mm inch				Connection Type		A mm	B mm	H mm
	mm	inch	mm	inch	Thread Size	Tube OD			
1JM56-4-4	6	-04	6.4	1/4	9/16 - 18UNF	1/4	48	23	19
1JM56-6-6	10	-06	9.5	3/8	11/16 - 16UNF	3/8	51	25	22
1JM56-8-6	10	-06	9.5	3/8	13/16 - 16UNF	1/2	53	27	22

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1JC56 – O-Lok® ORFS (Short Version) UNF Swivel Nut

56 Series

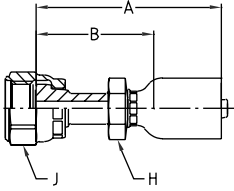


Part No. #	DN size mm inch				Connection Type		A mm	B mm	H mm	J mm
	mm	inch	mm	inch	Thread Size	Tube OD				
1JC56-4-3	5	-03	4.8	3/16	9/16 - 18UNF	1/4	38	22	14	17
1JC56-4-4	6	-04	6.4	1/4	9/16 - 18UNF	1/4	45	22	14	17
1JC56-6-4	6	-04	6.4	1/4	11/16 - 16UNF	3/8	47	23	17	22
1JC56-4-5	8	-05	7.9	5/16	9/16 - 16UNF	1/4	46	22	14	17
1JC56-6-5	8	-05	7.9	5/16	11/16 - 16UNF	3/8	48	25	17	22
1JC56-6-6	10	-06	9.5	3/8	11/16 - 16UNF	3/8	48	25	17	22
1JC56-8-6	10	-06	9.5	3/8	13/16 - 16UNF	1/2	51	26	22	24
1JC56-8-8	12	-08	12.7	1/2	13/16 - 16UNF	1/2	54	28	22	24
1JC56-10-8	12	-08	12.7	1/2	1 - 14UNF	5/8	59	32	27	30

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1JS56 – O-Lok® ORFS UNF Swivel Nut

56 Series

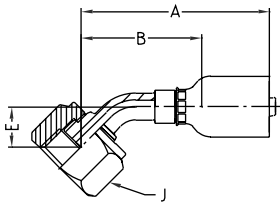


Part No. #	DN size				Connection Type		A mm	B mm	H mm	J mm
	mm	inch	Thread Size	Tube OD						
1JS56-4-3	5	-03	4.8	3/16	9/16 - 18UNF	1/4	49	31	14	17
1JS56-4-4	6	-04	6.4	1/4	9/16 - 18UNF	1/4	56	31	14	17
1JS56-6-4	6	-04	6.4	1/4	11/16 - 16UNF	3/8	58	33	17	22
1JS56-4-5	8	-05	7.9	5/16	9/16 - 16UNF	1/4	57	31	14	17
1JS56-6-5	8	-05	7.9	5/16	11/16 - 16UNF	3/8	59	33	17	22
1JS56-6-6	10	-06	9.5	3/8	11/16 - 16UNF	3/8	59	33	17	22
1JS56-8-6	10	-06	9.5	3/8	13/16 - 16UNF	1/2	63	38	22	24
1JS56-8-8	12	-08	12.7	1/2	13/16 - 16UNF	1/2	66	39	22	24

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1J756 – O-Lok® ORFS 45° Elbow UNF Swivel Nut

56 Series

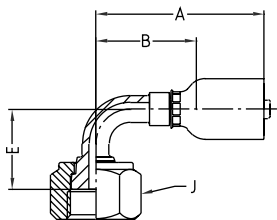


Part No. #	DN size				Connection Type		A mm	B mm	E mm	J mm
	mm	inch	Thread Size	Tube OD						
1J756-4-4	6	-04	6.4	1/4	9/16 - 18UNF	1/4	57	33	11	17
1J756-6-4	6	-04	6.4	1/4	11/16 - 16UNF	3/8	59	34	12	22
1J756-6-6	10	-06	9.5	3/8	11/16 - 16UNF	3/8	60	35	11	22
1J756-8-6	10	-06	9.5	3/8	13/16 - 16UNF	1/2	60	35	11	24
1J756-8-8	12	-08	12.7	1/2	13/16 - 16UNF	1/2	69	41	15	24

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1J956 – O-Lok® ORFS 90° Elbow UNF Swivel Nut

56 Series

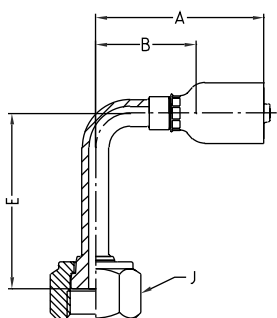


Part No. #	DN size mm inch				Connection Type		A mm	B mm	E mm	J mm
	Thread Size	Tube OD								
1J956-4-4	6	-04	6.4	1/4	9/16 - 18UNF	1/4	53	29	21	17
1J956-6-4	6	-04	6.4	1/4	11/16 - 16UNF	3/8	53	29	23	22
1J956-6-5	8	-05	7.9	5/16	11/16 - 16UNF	3/8	55	30	23	22
1J956-6-6	10	-06	9.5	3/8	11/16 - 16UNF	3/8	56	31	23	22
1J956-8-8	12	-08	12.7	1/2	13/16 - 16UNF	1/2	63	35	29	24

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1J156 – O-Lok® ORFS 90° Elbow (Long Drop Length) UNF Swivel Nut

56 Series



Part No. #	DN size mm inch				Connection Type		A mm	B mm	E mm	J mm
	Thread Size	Tube OD								
1J156-4-4	6	-04	6.4	1/4	9/16 - 18UNF	1/4	53	29	46	17
1J156-6-6	10	-06	9.5	3/8	11/16 - 16UNF	3/8	56	31	54	22
1J156-8-6	10	-06	9.5	3/8	13/16 - 16UNF	1/2	56	31	64	24
1J156-8-8	12	-08	12.7	1/2	13/16 - 16UNF	1/2	63	35	64	24

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

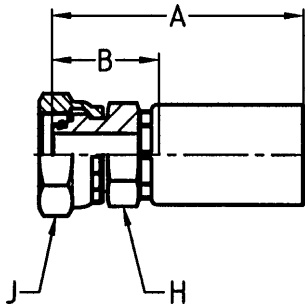


1CA58 – 24° Sealing Cone / O-Ring

Light Series

Metric Swivel Nut

DIN 20 078 N



58 Series

Part No. #	DN size				Connection Type		A mm	B mm	H mm	J mm
	mm	inch	mm	inch	Thread Size	Tube OD				
1CA58-6-3	5	-03	4.8	3/16	M12x1.5	6	54	29	14	14
1CA58-8-4	6	-04	6.4	1/4	M14x1.5	8	60	29	17	19
1CA58-10-5	8	-05	7.9	5/16	M16x1.5	10	62	30	19	19
1CA58-12-5	8	-05	7.9	5/16	M18x1.5	12	63	31	19	22
1CA58-10-6	10	-06	9.5	3/8	M16x1.5	10	67	31	19	19
1CA58-12-6	10	-06	9.5	3/8	M18x1.5	12	68	31	19	22
1CA58-15-8	12	-08	12.7	1/2	M22x1.5	15	74	33	24	27
1CA58-18-10	16	-10	15.9	5/8	M26x1.5	18	80	35	27	32
1CA58-18-12	20	-12	19.0	3/4	M26x1.5	18	80	34	32	32
1CA58-22-12	20	-12	19.0	3/4	M30x2	22	80	34	32	36
1CA58-28-16	25	-16	25.4	1	M36x2	28	101	41	36	46

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

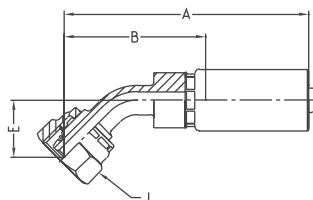
1CE58 – 24° Sealing Cone / O-Ring 45° Elbow

Light Series

Metric Swivel Nut

DIN 20 078 N

58 Series



Part No. #	DN size mm inch				Connection Type		A mm	B mm	E mm	H mm
	mm	inch	mm	inch	Thread Size	Tube OD				
1CE58-6-3	5	-03	4.8	3/16	M12x1.5	6	67	42	16	14
1CE58-8-4	6	-04	6.4	1/4	M14x1.5	8	75	43	18	19
1CE58-10-5	8	-05	7.9	5/16	M16x1.5	10	75	44	18	19
1CE58-10-6	10	-06	9.5	3/8	M16x1.5	10	83	46	19	19
1CE58-12-6	10	-06	9.5	3/8	M18x1.5	12	83	46	19	22
1CE58-15-8	12	-08	12.7	1/2	M22x1.5	15	92	51	21	27
1CE58-18-10	16	-10	15.9	5/8	M26x1.5	18	101	56	23	32
1CE58-18-12	20	-12	19.0	3/4	M26x1.5	18	108	62	25	32
1CE58-22-12	20	-12	19.0	3/4	M30x2	22	108	62	26	36

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

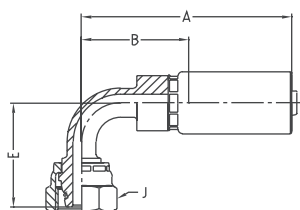
1CF58 – 24° Sealing Cone / O-Ring 90° Elbow

Light Series

Metric Swivel Nut

DIN 20 078 N

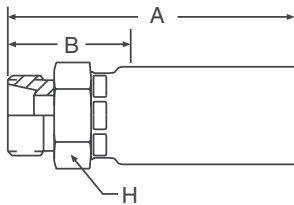
58 Series



Part No. #	DN size mm inch				Connection Type		A mm	B mm	E mm	H mm
	mm	inch	mm	inch	Thread Size	Tube OD				
1CF58-6-3	5	-03	4.8	3/16	M12x1.5	6	55	30	29	14
1CF58-8-4	6	-04	6.4	1/6	M14x1.5	8	64	32	32	19
1CF58-10-5	8	-05	7.9	5/16	M16x1.5	10	65	33	32	19
1CF58-10-6	10	-06	9.5	3/8	M16x1.5	10	73	36	35	19
1CF58-12-6	10	-06	9.5	3/8	M18x1.5	12	73	36	35	22
1CF58-15-8	12	-08	12.7	1/2	M22x1.5	15	82	41	42	27
1CF58-18-10	16	-10	15.9	5/8	M26x1.5	18	91	46	46	32
1CF58-18-12	20	-12	19.0	3/4	M26x1.5	18	100	54	54	32
1CF58-22-12	20	-12	19.0	3/4	M30x2	22	100	54	52	36
1CF58-28-16	25	-16	25.4	1	M36x2	28	122	62	65	46

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1D058 – Metric Male 24° Flare Light Series DIN 20 078 D

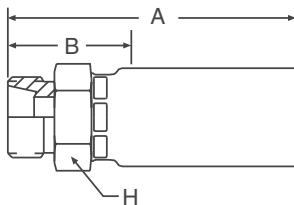


58 Series

Part No. #	DN size				Connection Type		A mm	B mm	H mm
	mm	inch	mm	inch	Thread Size	Tube OD			
1D058-6-3	5	-03	4.8	3/16	M12x1.5	6	49	23	17
1D058-8-4	6	-04	6.4	1/4	M14x1.5	8	55	23	19
1D058-10-5	8	-05	7.9	5/16	M16x1.5	10	58	26	19
1D058-12-5	8	-05	7.9	5/16	M18x1.5	12	59	27	19
1D058-10-6	10	-06	9.5	3/8	M16x1.5	10	63	26	22
1D058-12-6	10	-06	9.5	3/8	M18x1.5	12	64	27	22
1D058-15-6	10	-06	9.5	3/8	M22x1.5	15	67	30	27
1D058-15-8	12	-08	12.7	1/2	M22x1.5	15	71	30	27
1D058-18-12	20	-12	19.0	3/4	M26x1.5	18	76	30	32
1D058-22-12	20	-12	19.0	3/4	M30x2	22	77	31	36
1D058-28-16	25	-16	25.4	1	M36x2	28	91	31	41

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1D258 – Metric Male 24° Flare Heavy Series DIN 20 078 E

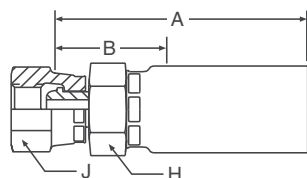


58 Series

Part No. #	DN size				Connection Type		A mm	B mm	H mm
	mm	inch	mm	inch	Thread Size	Tube OD			
1D258-8-3	5	-03	4.8	3/16	M16x1.5	8	52	27	19
1D258-10-4	6	-04	6.4	1/4	M18x1.5	10	58	26	22
1D258-12-5	8	-05	7.9	5/16	M20x1.5	12	62	30	24
1D258-14-6	10	-06	9.5	3/8	M22x1.5	14	69	32	27
1D258-16-8	12	-08	12.7	1/2	M24x1.5	16	73	32	27
1D258-20-12	20	-12	19.0	3/4	M30x2	20	79	33	36
1D258-25-12	20	-12	19.0	3/4	M36x2	25	81	35	41
1D258-30-16	25	-16	25.4	1	M42x2	30	95	35	46

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1C658 – Sealing Head Heavy Series Metric Swivel Nut

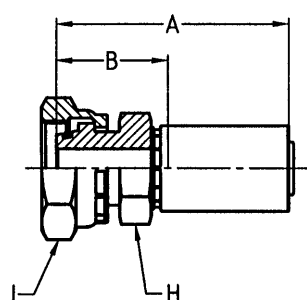


58 Series

Part No. #	DN size		mm		inch		Connection Type			
	mm	inch	mm	inch	Thread Size	Tube OD	A mm	B mm	H mm	J mm
1C658-8-3	5	-03	4.8	3/16	M16x1.5	8	53	28	17	19
1C658-10-4	6	-04	6.4	1/4	M18x1.5	10	60	28	19	22
1C658-12-5	8	-05	7.9	5/16	M20x1.5	12	64	32	22	24
1C658-12-6	10	-06	9.5	3/8	M20x1.5	12	69	32	22	24
1C658-14-6	10	-06	9.5	3/8	M22x1.5	14	66	30	24	27
1C658-14-8	12	-08	12.7	1/2	M22x1.5	14	71	30	24	27
1C658-16-8	12	-08	12.7	1/2	M24x1.5	16	72	31	27	30
1C658-20-12	20	-12	19.0	3/4	M30x2	20	84	38	32	36
1C658-25-12	20	-12	19.0	3/4	M36x2	25	82	36	36	46
1C658-30-16	25	-16	25.4	1	M42x2	30	102	42	38	50

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1C958 – 24° Sealing Cone / O-Ring Heavy Series Metric Swivel Nut DIN 20 078 P



58 Series

Part No. #	DN size		mm		inch		Connection Type			
	mm	inch	mm	inch	Thread Size	Tube OD	A mm	B mm	H mm	J mm
1C958-8-3	5	-03	4.8	3/16	M16x1.5	8	54	29	17	19
1C958-10-4	6	-04	6.4	1/4	M18x1.5	10	67	36	19	22
1C958-12-5	8	-05	7.9	5/16	M20x1.5	12	63	32	19	24
1C958-12-6	10	-06	9.5	3/8	M20x1.5	12	68	32	19	24
1C958-14-6	10	-06	9.5	3/8	M22x1.5	14	70	33	24	27
1C958-16-8	12	-08	12.7	1/2	M24x1.5	16	77	36	24	30
1C958-20-10	16	-10	15.9	5/8	M30x2	20	83	38	30	36
1C958-20-12	20	-12	19.0	3/4	M30x2	20	84	38	30	36
1C958-25-12	20	-12	19.0	3/4	M36x2	25	88	42	36	46
1C958-30-16	25	-16	25.4	1	M42x2	30	104	44	41	50

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

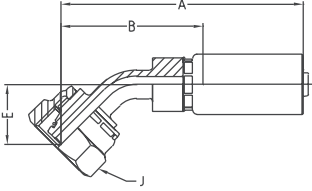
10C58 – 24° Sealing Cone / O-Ring 45° Elbow

Heavy Series

Metric Swivel Nut

DIN 20 078 P

58 Series



Part No. #	DN size mm inch				Connection Type		A mm	B mm	E mm	J mm
	mm	inch	mm	inch	Thread Size	Tube OD				
10C58-8-3	5	-03	4.8	3/16	M16x1.5	8	68	43	18	19
10C58-16-8	12	-08	12.7	1/2	M24x1.5	16	93	52	23	30

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

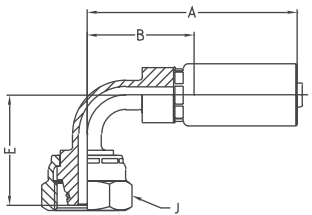
11C58 – 24° Sealing Cone / O-Ring 90° Elbow

Heavy Series

Metric Swivel Nut

DIN 20 078 P

58 Series

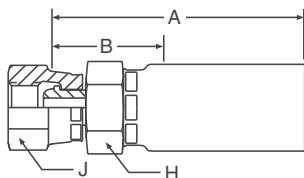


Part No. #	DN size mm inch				Connection Type		A mm	B mm	E mm	J mm
	mm	inch	mm	inch	Thread Size	Tube OD				
11C58-12-5	8	-05	7.9	5/16	M20x1.5	12	65	33	34	24
11C58-12-6	10	-06	9.5	3/8	M20x1.5	12	73	36	37	24
11C58-16-8	12	-08	12.7	1/2	M24x1.5	16	82	41	44	30

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

19258 – Sealing Head (60°) BSP Swivel Nut

58 Series



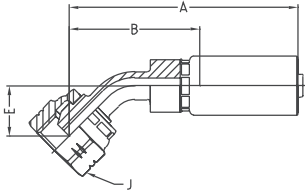
Part No. #	DN size mm inch				Connection Type		A mm	B mm	H mm	J mm
	mm	inch	mm	inch	Thread Size	Tube OD				
19258-4-3	5	-03	4.8	3/16	G 1/4	1/4	53	28	17	19
19258-4-4	6	-04	6.4	1/4	G 1/4	1/4	58	26	17	19
19258-6-5	8	-05	7.9	5/16	G 3/8	3/8	59	27	19	22
19258-6-6	10	-06	9.5	3/8	G 3/8	3/8	64	27	19	22
19258-8-8	12	-08	12.7	1/2	G 1/2	1/2	72	31	24	27
19258-10-8	12	-08	12.7	1/2	G 5/8	5/8	75	34	27	30
19258-12-12	20	-12	19.0	3/4	G 3/4	3/4	81	35	32	32
19258-16-16	25	-16	25.4	1	G 1	1	99	39	36	41

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request



1B158 – Sealing Head (60°) 45° Elbow BSP Swivel Nut

58 Series

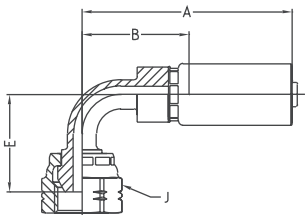


Part No. #	DN size				Connection Type		A mm	B mm	E mm	J mm
	mm	inch	mm	inch	Thread Size	Tube OD				
1B158-4-4	6	-04	6.4	1/4	G 1/4	1/4	73	41	16	19
1B158-6-5	8	-05	7.9	5/16	G 3/8	3/8	74	42	16	22
1B158-6-6	10	-06	9.5	3/8	G 3/8	3/8	81	45	17	22
1B158-8-8	12	-08	12.7	1/2	G 1/2	1/2	91	49	20	27
1B158-10-8	12	-08	12.7	1/2	G 5/8	5/8	89	48	19	30
1B158-12-12	20	-12	19.0	3/4	G 3/4	3/4	107	61	25	32
1B158-16-16	25	-16	25.4	1	G 1	1	131	71	29	41

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1B258 – Sealing Head (60°) 90° Elbow BSP Swivel Nut

58 Series

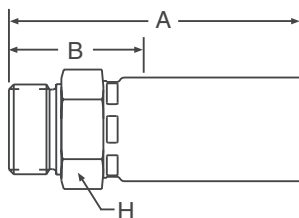


Part No. #	DN size				Connection Type		A mm	B mm	E mm	J mm
	mm	inch	mm	inch	Thread Size	Tube OD				
1B258-4-4	6	-04	6.4	1/4	G 1/4	1/4	64	32	28	19
1B258-6-5	8	-05	7.9	5/16	G 3/8	3/8	65	33	30	22
1B258-6-6	10	-06	9.5	3/8	G 3/8	3/8	73	36	33	22
1B258-8-8	12	-08	12.7	1/2	G 1/2	1/2	82	41	40	27
1B258-10-8	12	-08	12.7	1/2	G 5/8	5/8	82	41	38	30
1B258-12-12	20	-12	19.0	3/4	G 3/4	3/4	100	54	53	32
1B258-16-16	25	-16	25.4	1	G 1	1	127	67	65	41

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1D958 – BSP Male DIN 3852 Shape A

58 Series

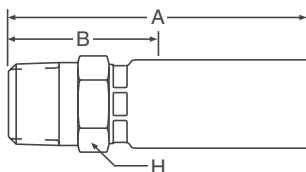


Part No. #	DN size mm inch				Connection Type		A mm	B mm	H mm
	Thread Size	Tube OD							
1D958-4-4	6	-04	6.4	1/4	G 1/4	1/4	58	26	19
1D958-6-5	8	-05	7.9	5/16	G 3/8	3/8	59	27	22
1D958-6-6	10	-06	9.5	3/8	G 3/8	3/8	64	27	22
1D958-8-8	12	-08	12.7	1/2	G 1/2	1/2	72	31	27
1D958-12-12	20	-12	19.0	3/4	G 3/4	3/4	80	34	32
1D958-16-16	25	-16	25.4	1	G 1	1	95	35	41

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

10158 – NPTF Male - 60° Flare

58 Series

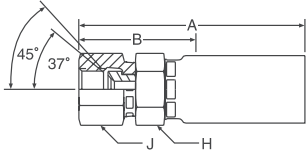


Part No. #	DN size mm inch				Connection Type		A mm	B mm	H mm
	Thread Size	Tube OD							
10158-2-2	3	-02	3.2	1/8	1/8 - 27NPTF	1/8	35	18	13
10158-2-3	5	-03	4.8	3/16	1/8 - 27NPTF	1/8	51	26	14
10158-4-3	5	-03	4.8	3/16	1/4 - 18NPTF	1/4	55	30	17
10158-6-3	5	-03	4.8	3/16	3/8 - 18NPTF	3/8	54	29	19
10158-2-4	6	-04	6.4	1/4	1/8 - 27NPTF	1/8	54	22	17
10158-4-4	6	-04	6.4	1/4	1/4 - 18NPTF	1/4	62	30	17
10158-6-4	6	-04	6.4	1/4	3/8 - 18NPTF	3/8	61	29	19
10158-4-5	8	-05	7.9	5/16	1/4 - 18NPTF	1/4	59	27	17
10158-6-5	8	-05	7.9	5/16	3/8 - 18NPTF	3/8	61	29	19
10158-4-6	10	-06	9.5	3/8	1/4 - 18NPTF	1/4	66	30	19
10158-6-6	10	-06	9.5	3/8	3/8 - 18NPTF	3/8	70	33	19
10158-8-6	10	-06	9.5	3/8	1/2 - 14NPTF	1/2	77	40	27
10158-6-8	12	-08	12.7	1/2	3/8 - 18NPTF	3/8	71	30	22
10158-8-8	12	-08	12.7	1/2	1/2 - 14NPTF	1/2	77	36	27
10158-12-12	20	-12	19.0	3/4	3/4 - 14NPTF	3/4	82	36	30
10158-16-16	25	-16	25.4	1	1 - 11 1/2NPTF	1	104	44	41

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

10658 – JIC - 37° Flare UNF Swivel Nut

58 Series

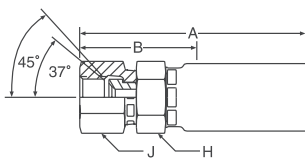


Part No. #	DN size mm inch				Connection Type		A mm	B mm	H mm	J mm
	mm	inch	mm	inch	Thread Size	Tube OD				
10658-3-2	3	-02	3.2	1/8	3/8 - 24UNF	3/16	33	16	13	14
10658-4-2	3	-02	3.2	1/8	7/16 - 20UNF	1/4	33	16	13	17
10658-4-3	5	-03	4.8	3/16	7/16 - 20UNF	1/4	55	30	16	17
10658-5-3	5	-03	4.8	3/16	1/2 - 20UNF	5/16	57	32	16	17
10658-4-4	6	-04	6.4	1/4	7/16 - 20UNF	1/4	65	33	17	17
10658-5-4	6	-04	6.4	1/4	1/2 - 20UNF	5/16	65	33	16	17
10658-6-4	6	-04	6.4	1/4	9/16 - 18UNF	3/8	67	35	17	19
10658-5-5	8	-05	7.9	5/16	1/2 - 20UNF	5/16	65	33	16	17
10658-6-5	8	-05	7.9	5/16	9/16 - 18UNF	3/8	65	33	16	19
10658-6-6	10	-06	9.5	3/8	9/16 - 18UNF	3/8	69	33	19	19
10658-8-6	10	-06	9.5	3/8	3/4 - 16UNF	1/2	72	35	19	24
10658-6-8	12	-08	12.7	1/2	9/16 - 18UNF	3/8	76	35	22	19
10658-8-8	12	-08	12.7	1/2	3/4 - 16UNF	1/2	79	38	22	22
10658-10-8	12	-08	12.7	1/2	7/8 - 14UNF	5/8	82	41	22	27
10658-12-8	12	-08	12.7	1/2	1 1/16 - 12UNF	3/4	83	42	27	32
10658-12-12	20	-12	19.0	3/4	1 1/16 - 12UNF	3/4	88	42	30	32
10658-16-12	20	-12	19.0	3/4	1 5/16 - 12UNF	1	90	44	36	38
10658-16-16	25	-16	25.4	1	1 5/16 - 12UNF	1	104	44	36	38

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

10658 – JIC - 37° Flare UNF Swivel Nut Material: Stainless Steel

58 Series



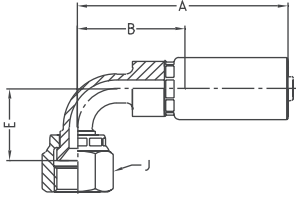
Part No. #	DN size		mm		inch		Connection Type			
	mm	inch	mm	inch	Thread Size	Tube OD	A mm	B mm	H mm	J mm
10658-4-3C	5	-03	4.8	3/16	7/16 - 20UNF	1/4	55	30	16	17
10658-4-4C	6	-04	6.4	1/4	7/16 - 20UNF	1/4	65	33	17	17
10658-6-5C	8	-05	7.9	5/16	9/16 - 18UNF	3/8	65	33	16	19
10658-6-6C	10	-06	9.5	3/8	9/16 - 18UNF	3/8	69	33	19	19
10658-8-6C	10	-06	9.5	3/8	3/4 - 16UNF	1/2	72	35	19	24
10658-8-8C	12	-08	12.7	1/2	3/4 - 16UNF	1/2	79	38	22	22
10658-10-8C	12	-08	12.7	1/2	7/8 - 14UNF	5/8	82	41	22	27
10658-12-12C	20	-12	19.0	3/4	1 1/16 - 12UNF	3/4	88	42	30	32
10658-16-16C	25	-16	25.4	1	1 5/16 - 12UNF	1	104	44	36	38

Material: Stainless Steel (AISI 316)



13958 – JIC - 37° Flare 90° Elbow UNF Swivel Nut

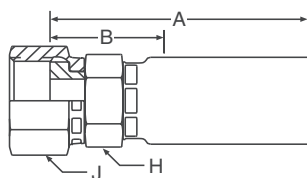
58 Series



Part No. #	DN size				Connection Type		A mm	B mm	E mm	H mm
	mm	inch	mm	inch	Thread Size	Tube OD				
13958-4-3-SM	5	-03	4.8	3/16	7/16 - 20UNF	1/4	55	30	21	17
13958-4-4-SM	6	-04	6.4	1/4	7/16 - 20UNF	1/4	64	32	21	17
13958-5-4-SM	6	-04	6.4	1/4	1/2 - 20UNF	5/16	64	32	25	17
13958-6-4-SM	6	-04	6.4	1/4	9/16 - 18UNF	3/8	64	32	22	19
13958-6-5-SM	8	-05	7.9	5/16	9/16 - 18UNF	3/8	65	33	22	19
13958-6-6-SM	10	-06	9.5	3/8	9/16 - 18UNF	3/8	73	36	28	19
13958-8-6-SM	10	-06	9.5	3/8	3/4 - 16UNF	1/2	71	34	29	22
13958-8-8-SM	12	-08	12.7	1/2	3/4 - 16UNF	1/2	77	36	29	22
13958-10-8-SM	12	-08	12.7	1/2	7/8 - 14UNF	5/8	77	36	32	27
13958-12-12-SM	20	-12	19.0	3/4	1 1/16 - 12UNF	3/4	97	51	46	32
13958-16-16-SM	25	-16	25.4	1	1 5/16 - 12UNF	1	121	61	55	41

Material: Steel, surface protection according to DIN 50 961 Fe/Zn,
special materials available upon request

1JC58 – O-Lok® ORFS (Short Version) UNF Swivel Nut

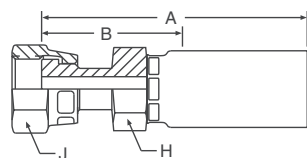


58 Series

Part No. #	DN size mm inch				Connection Type		A mm	B mm	H mm	J mm
	mm	inch	Thread Size	Tube OD						
1JC58-4-3-SM	5	-03	4.8	3/16	9/16 - 18UNF	1/4	47	22	17	17
1JC58-4-4-SM	6	-04	6.4	1/4	9/16 - 18UNF	1/4	53	22	17	17
1JC58-6-4-SM	6	-04	6.4	1/4	11/16 - 16UNF	3/8	59	27	19	22
1JC58-4-5-SM	8	-05	7.9	5/16	9/16 - 18UNF	1/4	53	22	17	17
1JC58-6-5-SM	8	-05	7.9	5/16	11/16 - 16UNF	3/8	56	25	19	22
1JC58-6-6-SM	10	-06	9.5	3/8	11/16 - 16UNF	3/8	61	25	19	22
1JC58-8-6-SM	10	-06	9.5	3/8	13/16 - 16UNF	1/2	63	27	22	24
1JC58-8-8-SM	12	-08	12.7	1/2	13/16 - 16UNF	1/2	69	27	24	24
1JC58-10-8-SM	12	-08	12.7	1/2	1 - 14UNF	5/8	73	32	30	30
1JC58-12-12-SM	20	-12	19.0	3/4	1 3/16 - 12UNF	3/4	79	33	32	36
1JC58-16-16-SM	25	-16	25.4	1	1 7/16 - 12UNF	1	96	36	36	41

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1JS58 – O-Lok® ORFS UNF Swivel Nut



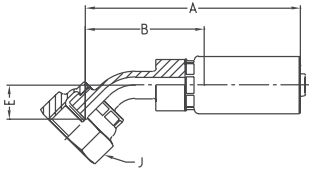
58 Series

Part No. #	DN size mm inch				Connection Type		A mm	B mm	H mm	J mm
	mm	inch	Thread Size	Tube OD						
1JS58-4-3-SM	5	-03	4.8	3/16	9/16 - 18UNF	1/4	60	35	17	17
1JS58-4-4-SM	6	-04	6.4	1/4	9/16 - 18UNF	1/4	67	35	17	17
1JS58-6-4-SM	6	-04	6.4	1/4	11/16 - 16UNF	3/8	66	35	19	22
1JS58-4-5-SM	8	-05	7.9	5/16	9/16 - 18UNF	1/4	67	35	17	17
1JS58-6-5-SM	8	-05	7.9	5/16	11/16 - 16UNF	3/8	66	35	19	22
1JS58-6-6-SM	10	-06	9.5	3/8	11/16 - 16UNF	3/8	71	35	19	22
1JS58-8-6-SM	10	-06	9.5	3/8	13/16 - 16UNF	1/2	75	38	22	24
1JS58-8-8-SM	12	-08	12.7	1/2	13/16 - 16UNF	1/2	80	38	22	24
1JS58-10-10-SM	16	-10	15.9	5/8	1 - 14UNF	5/8	90	44	30	30
1JS58-12-12-SM	20	-12	19.0	3/4	1 3/16 - 12UNF	3/4	94	48	32	36
1JS58-16-16-SM	25	-16	25.4	1	1 7/16 - 12UNF	1	112	52	36	41

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1J758 – O-Lok® ORFS 45° Elbow UNF Swivel Nut

58 Series

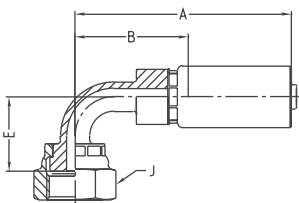


Part No. #	DN size mm inch				Connection Type		A mm	B mm	E mm	J mm
	Thread Size	Tube OD								
1J758-4-4	6	-04	6.4	1/4	9/16 - 18UNF	5/16	71	39	10	17
1J758-6-4	6	-04	6.4	1/4	11/16 - 16UNF	3/8	73	41	12	22
1J758-6-6	10	-06	9.5	3/8	11/16 - 16UNF	3/8	78	41	14	22
1J758-8-6	10	-06	9.5	3/8	13/16 - 16UNF	1/2	78	42	14	24
1J758-8-8	12	-08	12.7	1/2	13/16 - 16UNF	1/2	83	42	12	24
1J758-12-12	20	-12	19.0	3/4	1 3/16 - 12UNF	3/4	103	57	21	36
1J758-16-16	25	-16	25.4	1	1 7/16 - 12UNF	1	130	70	26	41

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1J958 – O-Lok® ORFS 90° Elbow UNF Swivel Nut

58 Series



Part No. #	DN size mm inch				Connection Type		A mm	B mm	E mm	J mm
	Thread Size	Tube OD								
1J958-4-4	6	-04	6.4	1/4	9/16 - 18UNF	5/16	67	35	21	17
1J958-6-4	6	-04	6.4	1/4	11/16 - 16UNF	3/8	68	36	23	22
1J958-6-5	8	-05	7.9	5/16	11/16 - 16UNF	3/8	67	35	23	22
1J958-6-6	10	-06	9.5	3/8	11/16 - 16UNF	3/8	72	36	29	22
1J958-8-8	12	-08	12.7	1/2	13/16 - 16UNF	1/2	82	41	29	24
1J958-12-12	20	-12	19.0	3/4	1 3/16 - 12UNF	3/4	100	54	47	36
1J958-16-16	25	-16	25.4	1	1 7/16 - 12UNF	1	128	68	64	41

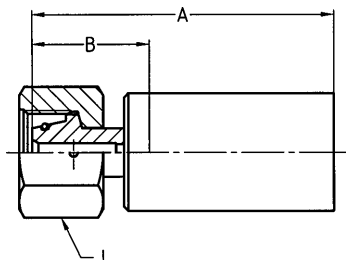
Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1C95X – 24° Sealing Cone / O-Ring

Heavy Series

Metric Swivel Nut

DIN 20 078 P



5X Series

Part No.	DN size		mm		inch	Connection Type	A	B	J
#	mm		inch			Thread Size	mm	mm	mm
1C95X-12-05	8	-05	7.9	5/16		M20x1.5	72.0	28	27
1C95X-16-08	12	-08	12.7	1/2		M24x1.5	87.5	34	32
1C95X-25-12	20	-12	19.0	3/4		M36x2	92.0	39	46

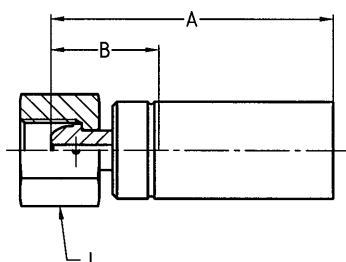
Material: Special steel, other special materials available upon request

1C35X – Sealing Head

Light Series

Metric Swivel Nut

DIN 20 078 A



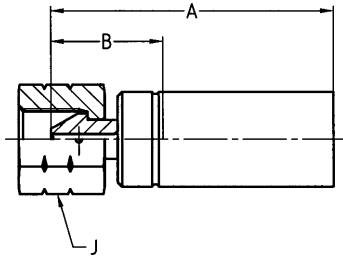
5X Series

Part No.	DN size		mm		inch	Connection Type	A	B	J
#	mm		inch			Thread Size	mm	mm	mm
1C35X-8-03	5	-03	4.8	3/16		M14x1.5	64	24.5	22



Material: Special steel, other special materials available upon request



1AY5X – 59° Sealing Cone UNF Swivel Nut

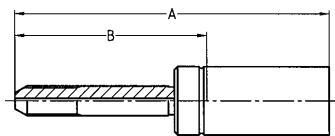


5X Series



Part No. #	DN size mm inch				Connection Type	A mm	B mm	J mm
								
1AY5X-6-03	5	-03	4.8	3/16	9/16 - 18UNF	65.5	26.0	22
1AY5X-8-05	8	-05	7.9	5/16	3/4 - 16UNF	69.0	25.0	27
1AY5X-11-08	12	-08	12.7	1/2	1 - 12UNF	80.0	26.5	32
1AY5X-16-12	20	-12	19.0	3/4	1 5/16 - 12UNF	82.0	29.0	41

Material: Special steel, other special materials available upon request

1YA5X – High Pressure Connector 59° Cone UNF - Left Hand Thread

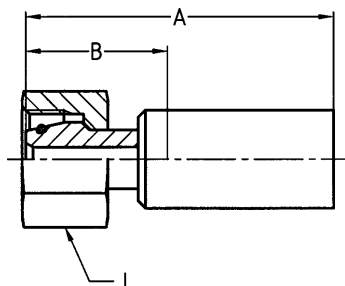


5X Series

Part No. #	DN size mm inch				Connection Type	A mm	B mm
							
1YA5X-1-025	4	-025	4.0	5/32	1/4 - 28UNF-LH	82	50.0
1YA5X-1-03	5	-03	4.8	3/16	1/4 - 28UNF-LH	92	52.5
1YA5X-3-03	5	-03	4.8	3/16	3/8 - 24UNF-LH	97	57.5
1YA5X-6-05	8	-05	7.9	5/16	9/16 - 18UNF-LH	104	60.0

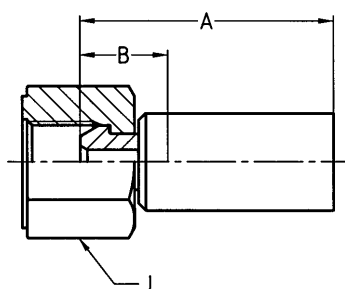
Material: Special steel, other special materials available upon request

8X Series

1C98X – 24° Sealing Cone / O-Ring**Heavy Series****Metric Swivel Nut****DIN 20 078 P****8X Series**

Part No. #	DN size				Connection Type		A mm	B mm	J mm
	mm	inch	Thread Size	Tube OD					
1C98X-8-025	4	-025	4.0	5/32	M16x1.5	8	54.0	27.0	19
1C98X-8-04	6	-04	6.4	1/4	M16x1.5	8	58.7	27.0	19
1C98X-10-04	6	-04	6.4	1/4	M18x1.5	10	64.7	33.0	22
1C98X-12-06	10	-06	9.5	3/8	M20x1.5	12	69.5	29.5	24
1C98X-14-06	10	-06	9.5	3/8	M22x1.5	14	70.0	30.0	27
1C98X-16-08	12	-08	12.7	1/2	M24x1.5	16	77.5	34.5	30

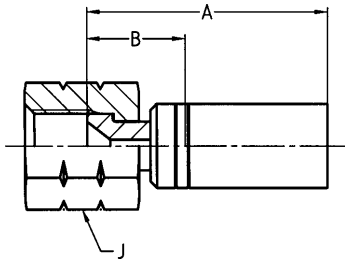
Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1928X – Sealing Head (60°)**BSP Swivel Nut****8X Series**



Part No. #	DN size				Connection Type		A mm	B mm	J mm
	mm	inch	Thread Size	Tube OD					
1928X-4-025	4	-025	4.0	5/32	BSP 1/4	4	47.5	20.0	19
1928X-4-04	6	-04	6.4	1/4	BSP 1/4	4	56.2	24.5	19
1928X-6-06	10	-06	9.5	3/8	BSP 3/8	6	58.5	18.5	22
1928X-8-06	10	-06	9.5	3/8	BSP 1/2	8	59.5	19.5	27
1928X-8-08	12	-08	12.7	1/2	BSP 1/2	8	63.0	20.0	27

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1068X – JIC 37° Flare UNF Swivel Nut

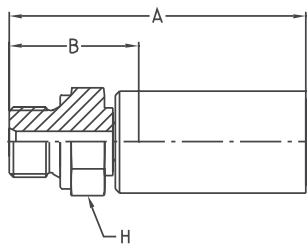


8X Series



Part No. #	DN size mm inch				Connection Type	A mm	B mm	J mm
								
1068X-4-04	6	-04	6.4	1/4	7/16 - 20UNF	57.0	26	19
1068X-5-04	6	-04	6.4	1/4	1/2 - 20UNF	55.0	24	19
1068X-6-04	6	-04	6.4	1/4	9/16 - 18UNF	55.0	24	19
1068X-6-05	8	-05	7.9	5/16	9/16 - 18UNF	55.5	16	19
1068X-8-05	8	-05	7.9	5/16	3/4 - 16UNF	57.5	18	24
1068X-10-08	12	-08	12.7	1/2	7/8 - 16UNF	63.0	19	27

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1D98X – BSP Male DIN 3852 Shape A

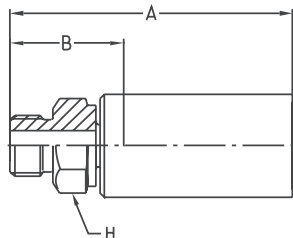


8X Series




Part No. #	DN size mm inch				Connection Type	A mm	B mm	J mm
								
1D98X-4-04	6	-04	6.4	1/4	G 1/4	67	35.0	19
1D98X-6-05	8	-05	7.9	5/16	G 3/8	70	30.5	22

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1058X – UNF Male / O-Ring

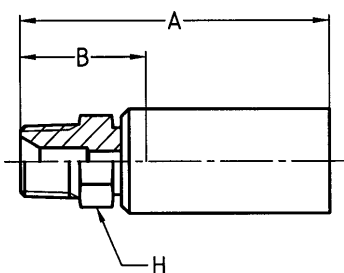


8X Series




Part No. #	DN size mm inch				Connection Type		A mm	B mm	J mm
					Thread Size 	Tube OD 			
1058X-4-04	6	-04	6.4	1/4	7/16 - 20 UNF	1/4	61	29	14
1058X-6-04	6	-04	6.4	1/4	9/16 - 18 UNF	3/8	62	30	17

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1018X – NPTF Male - 60° Flare



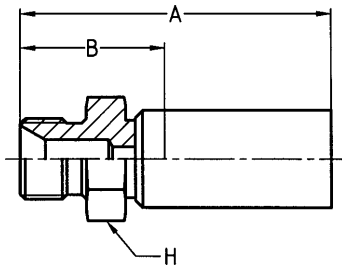
8X Series

Part No. #	DN size mm inch				Connection Type		A mm	B mm	H mm
					Thread Size 	Tube OD 			
1018X-2-025	4	-025	4.0	5/32	1/8 - 27NPTF	2	50.5	23.5	8
1018X-4-025	4	-025	4.0	5/32	1/4 - 18NPTF	4	58.5	31.5	13
1018X-4-04	6	-04	6.4	1/4	1/4 - 18NPTF	4	64.8	33.0	14
1018X-6-04	6	-04	6.4	1/4	3/8 - 18NPTF	6	66.8	35.0	19
1018X-6-05	8	-05	7.9	5/16	3/8 - 18NPTF	6	69.7	30.0	19
1018X-6-06	10	-06	9.5	3/8	3/8 - 18NPTF	6	70.5	30.5	19
1018X-8-06	10	-06	9.5	3/8	1/2 - 14NPTF	8	75.5	35.5	22
1018X-8-08	12	-08	12.7	1/2	1/2 - 14NPTF	8	79.0	36.0	22

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

13B8X – BSP Male - 60° Flare

8X Series

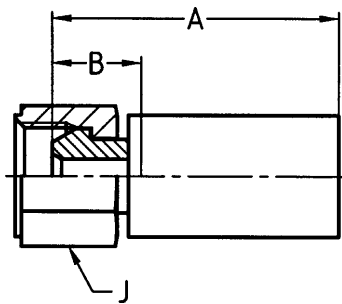


Part No. #	DN size mm inch				Connection Type	A mm	B mm	J mm
					Thread Size			
13B8X-4-025	4	-025	4.0	5/32	G 1/4	57.0	29.5	17
13B8X-4-04	6	-04	6.4	1/4	G 1/4	64.0	32.0	17
13B8X-6-04	6	-04	6.4	1/4	G 3/8	66.5	34.5	19
13B8X-6-05	8	-05	7.9	5/16	G 3/8	69.0	29.5	22
13B8X-6-06	10	-06	9.5	3/8	G 3/8	70.0	30.0	22
13B8X-8-06	10	-06	9.5	3/8	G 1/2	75.0	35.0	22
13B8X-8-08	12	-08	12.7	1/2	G 1/2	78.5	35.5	24

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1U08X – Sealing Head (60°) BSP Swivel Nut

8X Series

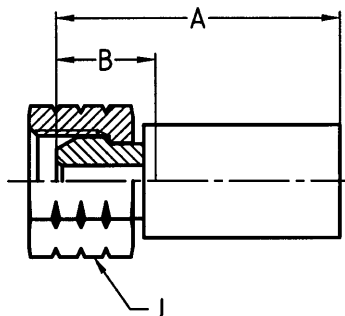


Part No. #	Part No. #	DN size mm inch				Connection Type	A mm	B mm	J mm
						Thread Size			
1U08X-4-04	1U08X-4-04 C2W	6	-04	6.4	1/4	G 1/4	58.0	27.0	19
1U08X-6-04	1U08X-6-04 C2W	6	-04	6.4	1/4	G 3/8	58.0	27.0	27
1U08X-6-05	1U08X-6-05 C2W	8	-05	7.9	5/16	G 3/8	58.5	19.0	19
1U08X-6-06	1U08X-6-06 C2W	10	-06	9.5	3/8	G 3/8	60.5	19.5	22
1U08X-8-06	1U08X-8-06 C2W	10	-06	9.5	3/8	G 1/2	60.5	19.5	27
1U08X-8-08	1U08X-8-08 C2W	12	-08	12.7	1/2	G1/2	65.5	21.5	27

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, C2W includes stainless steel nipple (material 1.4301)

1078X – 60° Sealing Cone NPSM Swivel Nut

8X Series



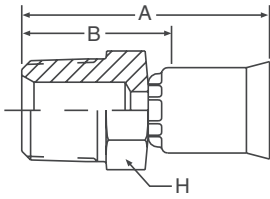
Part No. #	Part No. #	DN size mm inch				Connection Type Thread Size	A mm	B mm	J mm
		○				⌋			⬡
1078X-4-04	1078X-4-04 C2W	6	-04	6.4	1/4	1/4 - 18NPSM	59.0	27.5	19
1078X-6-05	1078X-6-05 C2W	8	-05	7.9	5/16	3/8 - 18NPSM	60.2	20.7	22
1078X-6-06	1078X-6-06 C2W	10	-06	9.5	3/8	3/8 - 18NPSM	62.2	21.2	22
1078X-8-08	1078X-8-08 C2W	12	-08	12.7	1/2	1/2 - 14NPSM	64.4	20.4	27

Material: Steel, surface protection according to DIN 50 961 Fe/Zn,
C2W includes stainless steel nipple (material 1.4301)



10191N – NPTF Male - 60° Flare

91N Series



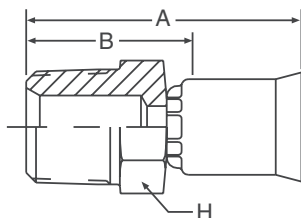
Part No. #	size ○	Connection Type Thread Size ⌋	A mm	B mm	H inch ⬡
10191N-2-4	-04	1/8 - 27NPTF	32	19	1/2
10191N-4-4	-04	1/4 - 18NPTF	38	24	1/2
10191N-4-5	-05	1/4 - 18NPTF	39	25	9/16
10191N-4-6	-06	1/4 - 18NPTF	41	24	5/8
10191N-6-6	-06	3/8 - 18NPTF	42	25	5/8
10191N-4-8	-08	1/4 - 18NPTF	50	30	7/8
10191N-6-8	-08	3/8 - 18NPTF	43	25	3/4
10191N-8-8	-08	1/2 - 14NPTF	49	32	3/4
10191N-8-10	-10	1/2 - 14NPTF	50	32	7/8
10191N-8-12	-12	1/2 - 14NPTF	61	38	1 1/8
10191N-12-12	-12	3/4 - 14NPTF	56	35	1
10191N-16-16	-16	1 - 11 1/2NPTF	60	38	1 3/8
10191N-20-20	-20	1 1/4 - 11 1/2NPTF	77	52	1 5/8

Material: Brass nipple, steel ferrule

10191N – NPTF Male - 60° Flare

Material: Stainless steel

91N Series



Part No. #	size ○	Connection Type Thread Size ⋈	A mm	B mm	H inch ⬡
10191N-2-4C	-04	1/8 - 27NPTF	32	19	1/2
10191N-4-4C	-04	1/4 - 18NPTF	38	24	1/2
10191N-4-5C	-05	1/4 - 18NPTF	39	25	9/16
10191N-4-6C	-06	1/4 - 18NPTF	41	24	5/8
10191N-6-6C	-06	3/8 - 18NPTF	42	25	5/8
10191N-4-8C	-08	1/4 - 18NPTF	50	30	7/8
10191N-6-8C	-08	3/8 - 18NPTF	43	25	3/4
10191N-8-8C	-08	1/2 - 14NPTF	49	32	3/4
10191N-8-10C	-10	1/2 - 14NPTF	50	32	7/8
10191N-8-12C	-12	1/2 - 14NPTF	61	38	1 1/8
10191N-12-12C	-12	3/4 - 14NPTF	56	35	1
10191N-16-16C	-16	1 - 11 1/2NPTF	60	38	1 3/8
10191N-20-20C	-20	1 1/4 - 11 1/2NPTF	77	52	1 5/8

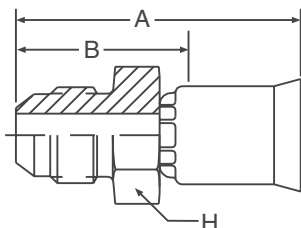
Material: Stainless steel (AISI 300 Series)

10391N – JIC Male

37° Cone



91N Series

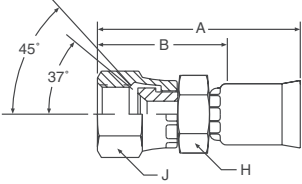


Part No. #	size ○	Connection Type Thread Size ⋈	A mm	B mm	H inch ⬡
10391N-6-6	-06	9/16 - 18UNF	42	25	11/16
10391N-8-6	-06	3/4 - 16UNF	44	27	7/8

Material: Brass nipple, steel ferrule

10691N – JIC - 37° Flare UNF Swivel Nut

91N Series

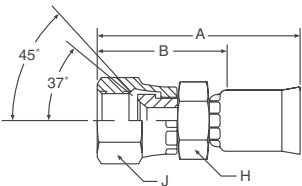


Part No. #	size	Connection Type		A mm	B mm	H inch	J inch
		Thread Size	Tube OD				
10691N-4-4	-04	7/16 - 20UNF	1/4	36	22	3/8	9/16
10691N-5-5	-05	1/2 - 20UNF	5/16	40	24	7/16	5/8
10691N-6-6	-06	9/16 - 18UNF	3/8	41	25	1/2	11/16
10691N-8-8	-08	3/4 - 16UNF	1/2	48	30	11/16	7/8
10691N-10-10	-10	7/8 - 14UNF	5/8	52	33	13/16	1
10691N-12-12	-12	1 1/16 - 12UNF	3/4	54	33	1	1 1/4
10691N-16-16	-16	1 5/16 - 12UNF	1	62	40	1 1/4	1 1/2
10691N-20-20	-20	1 5/8 - 12UNF	1 1/4	76	46	1 5/8	2

Material: Brass nipple, steel ferrule and swivel nut

10691N – JIC - 37° Flare UNF Swivel Nut Material: Stainless steel

91N Series

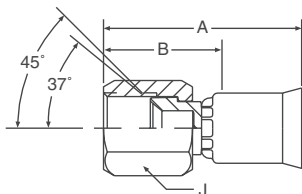


Part No. #	size	Connection Type		A mm	B mm	H inch	J inch
		Thread Size	Tube OD				
10691N-4-4C	-04	7/16 - 20UNF	1/4	36	22	3/8	9/16
10691N-5-5C	-05	1/2 - 20UNF	5/16	40	24	7/16	5/8
10691N-6-6C	-06	9/16 - 18UNF	3/8	41	25	1/2	11/16
10691N-8-8C	-08	3/4 - 16UNF	1/2	48	30	11/16	7/8
10691N-10-10C	-10	7/8 - 14UNF	5/8	52	33	13/16	1
10691N-12-12C	-12	1 1/16 - 12UNF	3/4	54	33	1	1 1/4
10691N-16-16C	-16	1 5/16 - 12UNF	1	62	40	1 1/4	1 1/2
10691N-20-20C	-20	1 5/8 - 12UNF	1 1/4	76	46	1 5/8	2

Material: Stainless Steel (AISI 300 Series)

10691N-RD – JIC - 37° Flare UNF Swivel Nut

91N Series

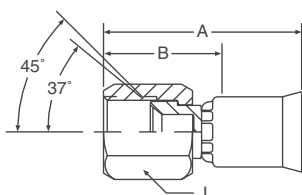


Part No. #	size	Connection Type		A mm	B mm	J inch
		Thread Size	Tube OD			
10691N-4-4-RD	-04	7/16 - 20UNF	1/4	34	21	9/16
10691N-5-5-RD	-05	1/2 - 20UNF	5/16	38	22	5/8
10691N-6-6-RD	-06	9/16 - 18UNF	3/8	41	24	11/16
10691N-8-8-RD	-08	3/4 - 16UNF	1/2	45	27	7/8
10691N-10-10-RD	-10	7/8 - 14UNF	5/8	49	30	1
10691N-12-12-RD	-12	1 1/16 - 12UNF	3/4	53	33	1 1/4
10691N-16-16-RD	-16	1 5/16 - 12UNF	1	58	33	1 1/2

Material: Brass nipple, steel ferrule and swivel nut
RD series without hexagonal ferrule

10691N-RD – JIC - 37° Flare UNF Swivel Nut Material: Stainless steel

91N Series



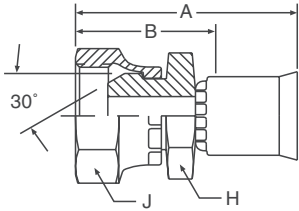
Part No. #	size	Connection Type		A mm	B mm	J inch
		Thread Size	Tube OD			
10691N-4-4C-RD	-04	7/16 - 20UNF	1/4	34	21	9/16
10691N-5-5C-RD	-05	1/2 - 20UNF	5/16	38	22	5/8
10691N-6-6C-RD	-06	9/16 - 18UNF	3/8	41	24	11/16
10691N-8-8C-RD	-08	3/4 - 16UNF	1/2	45	27	7/8
10691N-10-10C-RD	-10	7/8 - 14UNF	5/8	49	30	1
10691N-12-12C-RD	-12	1 1/16 - 12UNF	3/4	53	33	1 1/4
10691N-16-16C-RD	-16	1 5/16 - 12UNF	1	58	33	1 1/2

Material: Stainless steel (AISI 300 series)
RD Series without hexagonal ferrule



10791N – JIC - 60° Sealing Cone NPSM Swivel Nut

91N Series

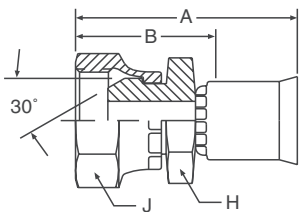


Part No. #	size	Connection Type		A mm	B mm	H inch	J inch
		Thread Size	Tube OD				
10791N-4-4	-04	1/4 - 18NPSM	1/4	38	24	9/16	3/4
10791N-6-6	-06	3/8 - 18NPSM	3/8	42	25	5/8	7/8
10791N-8-8	-08	1/2 - 14NPSM	1/2	46	29	3/4	1
10791N-12-12	-12	3/4 - 14NPSM	3/4	53	33	1	1 1/4
10791N-16-16	-16	1 - 11 1/2NPSM	1	57	33	1 3/16	1 3/8

Material: Brass nipple, steel ferrule and swivel nut

10791N – JIC - 60° Sealing Cone NPSM Swivel Nut Material: Stainless steel

91N Series

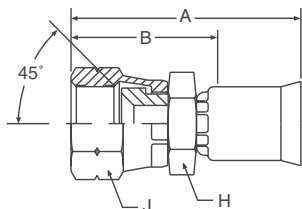


Part No. #	size	Connection Type		A mm	B mm	H inch	J inch
		Thread Size	Tube OD				
10791N-4-4C	-04	1/4 - 18NPSM	1/4	38	24	9/16	3/4
10791N-6-6C	-06	3/8 - 18NPSM	3/8	42	25	5/8	7/8
10791N-8-8C	-08	1/2 - 14NPSM	1/2	46	29	3/4	1
10791N-12-12C	-12	3/4 - 14NPSM	3/4	53	33	1	1 1/4
10791N-16-16C	-16	1 - 11 1/2NPSM	1	57	33	1 3/16	1 3/8

Material: All components stainless steel (AISI 300 series)

10891N – SAE Male 45° Flare UNF Swivel Nut

91N Series

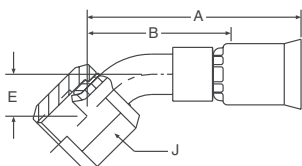


Part No. #	size	Connection Type		A mm	B mm	H inch	J inch
		Thread Size	Tube OD				
10891N-6-6	-06	5/8 - 18UNF	3/8	43	27	5/8	3/4
10891N-12-12	-12	1 1/16 - 14UNF	3/4	54	33	1	1 1/4

Material: Brass nipple, steel ferrule and swivel nut

13791N – JIC - 37° Flare 45° Elbow UNF Swivel Nut

91N Series

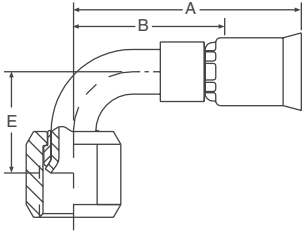


Part No. #	size	Connection Type		A mm	B mm	E mm	J inch
		Thread Size	Tube OD				
13791N-4-4	-04	7/16 - 20UNF	1/4	44	29	8	9/16
13791N-5-5	-05	1/2 - 20UNF	5/16	50	30	9	5/8
13791N-6-6	-06	9/16 - 18UNF	3/8	51	32	14	11/16
13791N-8-8	-08	3/4 - 16UNF	1/2	59	41	14	7/8
13791N-10-10	-10	7/8 - 14UNF	5/8	65	49	16	1
13791N-12-12	-12	1 1/16 - 12UNF	3/4	72	52	20	1 1/4
13791N-16-16	-16	1 5/16 - 12UNF	1	80	57	23	1 1/2
13791N-20-20	-20	1 5/8 - 12UNF	1 1/4	87	64	28	2

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

13991N – JIC - 37° Flare 90° Elbow UNF Swivel Nut

91N Series

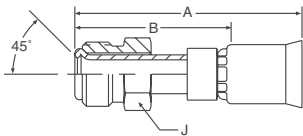


Part No. #	size	Connection Type		A mm	B mm	E mm	J inch
		Thread Size	Tube OD				
13991N-4-4	-04	7/16 - 20UNF	1/4	41	27	24	9/16
13991N-5-5	-05	1/2 - 20UNF	5/16	43	29	20	5/8
13991N-6-6	-06	9/16 - 18UNF	3/8	49	32	22	11/16
13991N-8-8	-08	3/8 - 16UNF	1/2	52	30	28	7/8
13991N-10-10	-10	7/8 - 14UNF	5/8	61	43	31	1
13991N-12-12	-12	1 1/16 - 12UNF	3/4	76	54	46	1 1/2
13991N-16-16	-16	1 5/16 - 12UNF	1	80	56	54	1 1/2

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

12891N – SAE 45° Flare UNF Male Swivel

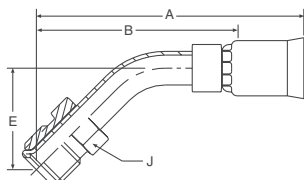
91N Series



Part No. #	size	Connection Type		A mm	B mm	J inch
		Thread Size	Tube OD			
12891N-4-4	-04	7/16 - 24UNF	1/4	53	38	7/16
12891N-5-5	-05	1/2 - 20UNF	5/16	55	40	1/2
12891N-5-6	-06	1/2 - 20UNF	3/8	57	40	1/2
12891N-6-6	-06	5/8 - 18UNF	3/8	57	40	5/8
12891N-8-8	-08	3/4 - 18UNF	1/2	59	41	3/4
12891N-10-10	-10	7/8 - 18UNF	5/8	62	44	7/8
12891N-12-12	-12	1 1/6 - 16UNF	3/4	64	43	1 1/16

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

16791N – SAE 45° Elbow 45° Flare UNF Male Swivel

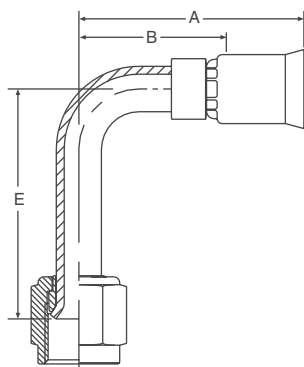


91N Series

Part No. #	size	Connection Type		A mm	B mm	E mm	J inch
		Thread Size	Tube OD				
16791N-4-4	-04	7/16 - 24UNF	1/4	47	33	16	7/16
16791N-5-5	-05	1/2 - 20UNF	5/16	64	44	18	1/2
16791N-6-6	-06	5/8 - 18UNF	3/8	66	49	24	5/8
16791N-8-8	-08	3/4 - 18UNF	1/2	67	49	23	3/4
16791N-10-10	-10	7/8 - 18UNF	5/8	69	54	26	7/8
16791N-12-12	-12	1 1/16 - 16UNF	3/4	80	64	29	1 1/16

Material: Steel, surface protection according to DIN 50 961 Fe/Zn,
special materials available upon request

14191N – JIC - 37° Flare 90° Elbow (Long Drop Length) UNF Swivel Nut



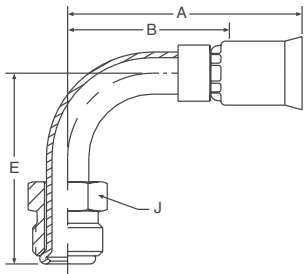
91N Series

Part No. #	size	Connection Type		A mm	B mm	E mm	J inch
		Thread Size	Tube OD				
14191N-4-4	-04	7/16 - 20UNF	1/4	39	25	46	9/16
14191N-5-5	-05	1/2 - 20UNF	5/16	42	25	45	5/8
14191N-6-6	-06	9/16 - 18UNF	3/8	50	32	55	11/16
14191N-8-8	-08	3/4 - 16UNF	1/2	54	37	62	7/8
14191N-10-10	-10	7/8 - 14UNF	5/8	75	44	65	1
14191N-12-12	-12	1 1/16 - 12UNF	3/4	78	56	95	1 1/4
14191N-16-16	-16	1 5/16 - 12UNF	1	92	67	110	1 1/2
14191N-20-20	-20	1 5/8 - 12UNF	1 1/4	102	75	134	2

Material: Steel, surface protection according to DIN 50 961 Fe/Zn,
special materials available upon request



16991N – SAE 90° Elbow 45° Flare UNF Male Swivel

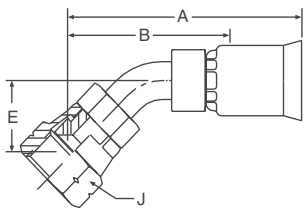


91N Series

Part No. #	size	Connection Type		A mm	B mm	E mm	J inch
		Thread Size	Tube OD				
16991N-4-4	-04	7/16 - 24UNF	1/4	39	24	30	7/16
16991N-5-5	-05	1/2 - 20UNF	5/16	49	33	42	1/2
16991N-5-6	-06	1/2 - 20UNF	3/8	51	35	42	1/2
16991N-6-6	-06	5/8 - 18UNF	3/8	53	37	43	5/8
16991N-8-8	-08	3/4 - 18UNF	1/2	56	40	47	3/4
16991N-10-10	-10	7/8 - 18UNF	5/8	60	46	55	7/8
16991N-12-12	-12	1 1/16 - 16UNF	3/4	73	52	64	1 1/16

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials on request

17791N – SAE 45° Elbow 45° Flare UNF Swivel Nut



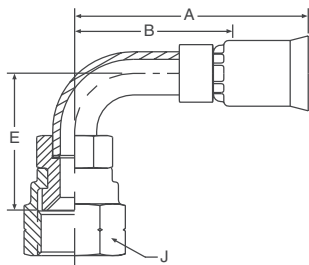
91N Series

Part No. #	size	Connection Type		A mm	B mm	E mm	J inch
		Thread Size	Tube OD				
17791N-6-6	-06	5/8 - 18UNF	3/8	52	33	10	3/4
17791N-12-12	-12	1 1/16 - 14UNF	3/4	78	62	20	1 1/4

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials on request

17991N – SAE 90° Elbow 45° Flare UNF Swivel Nut

91N Series

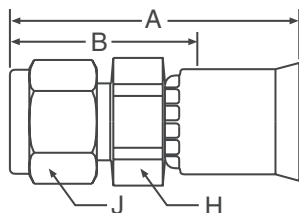


Part No. #	size	Connection Type		A mm	B mm	E mm	J inch
		Thread Size	Tube OD				
17991N-6-6	-06	5/8 - 18UNF	3/8	52	49	30	3/4
17991N-12-12	-12	1 1/16 - 14UNF	3/4	74	54	46	1 1/4

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials on request

1AL91N – A-Lok® - Connector with Clamp Ring

91N Series

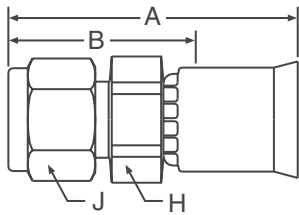


Part No. #	size	Tube OD	A mm	B mm	H inch	J inch
1AL91N-4-4C	-04	1/4	33	11	1/2	9/16
1AL91N-4-5C	-05	5/16	25	11	1/2	9/16
1AL91N-6-6C	-06	3/8	39	13	5/8	11/16
1AL91N-8-8C	-08	1/2	41	11	13/16	7/8
1AL91N-12-12C	-12	3/4	47	13	1 1/8	1 1/8
1AL91N-16-16C	-16	1	54	11	1 3/8	1 1/2

Material: Nipple, swivel nut and clamp rings stainless steel (AISI 316)
Stainless steel, ferrule (AISI 303)

1P691N – CPI® - Connector with Swivel Nut and Clamp Ring

91N Series

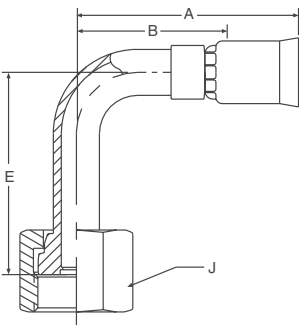


Part No. #	size	Tube OD	A mm	B mm	H inch	J inch
1P691N-4-4C	-04	1/4	33	11	1/2	9/16
1P691N-4-5C	-05	1/4	23	11	1/2	9/16
1P691N-6-6C	-06	3/8	39	13	5/8	11/16
1P691N-8-8C	-08	1/2	41	11	13/16	7/8
1P691N-12-12C	-12	3/4	47	13	1 1/8	1 1/8
1P691N-16-16C	-16	1	52	14	1 3/8	1 1/2

Material: Nipple, swivel nut and clamp rings stainless steel (AISI 316)
Stainless steel, ferrule (AISI 303)

1J191N – O-Lok® ORFS 90° Elbow (Long Drop Length) UNF Swivel Nut

91N Series

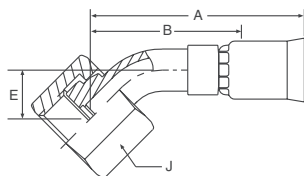


Part No. #	size	Connection Type		A mm	B mm	E mm	J inch
		Thread Size	Tube OD				
1J191N-4-4	-04	9/16 - 18UNF	1/4	42	27	46	11/16
1J191N-4-5	-05	9/16 - 18UNF	5/16	45	27	46	11/16
1J191N-6-5	-05	11/16 - 16UNF	5/16	49	30	54	13/16
1J191N-6-6	-06	11/16 - 16UNF	3/8	49	30	54	13/16
1J191N-8-6	-06	13/16 - 16UNF	3/8	51	40	64	15/16
1J191N-8-8	-08	13/16 - 16UNF	1/2	55	37	64	15/16
1J191N-10-10	-10	1 - 14UNF	5/8	32	40	70	11/16
1J191N-12-12	-12	1 3/16 - 12UNF	3/4	67	46	96	1 3/8
1J191N-16-16	-16	1 7/16 - 12UNF	1	80	57	114	1 1/2

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials on request

1J791N – O-Lok® ORFS 45° Elbow UNF Swivel Nut

91N Series

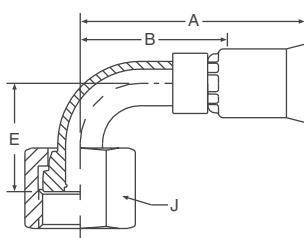


Part No. #	size	Connection Type		A mm	B mm	E mm	J inch
		Thread Size	Tube OD				
1J791N-4-4	-04	9/16 - 18UNF	1/4	44	32	10	11/16
1J791N-4-6	-06	9/16 - 18UNF	3/8	49	33	10	11/16
1J791N-6-6	-06	11/16 - 16UNF	3/8	51	35	11	13/16
1J791N-8-8	-08	13/16 - 16UNF	1/2	55	38	15	15/16
1J791N-10-10	-10	1 - 14UNF	5/8	63	44	15	1 1/8
1J791N-12-12	-12	1 3/16 - 12UNF	3/4	70	49	21	1 3/8
1J791N-16-16	-16	1 7/16 - 12UNF	1	89	64	24	1 5/8

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials on request

1J991N – O-Lok® ORFS 90° Elbow UNF Swivel Nut

91N Series

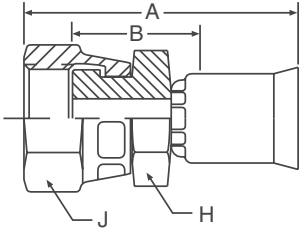


Part No. #	size	Connection Type		A mm	B mm	E mm	J inch
		Thread Size	Tube OD				
1J991N-4-4	-04	9/16 - 18UNF	1/4	45	32	21	11/16
1J991N-6-6	-06	11/16 - 16UNF	3/8	47	32	23	13/16
1J991N-8-8	-08	13/16 - 16UNF	1/2	53	35	29	15/16
1J991N-10-10	-10	1 - 14UNF	5/8	57	38	32	1 1/8
1J991N-12-12	-12	1 3/16 - 12UNF	3/4	67	48	47	1 3/8
1J991N-16-16	-16	1 7/16 - 12UNF	1	88	65	56	1 5/8
1J991N-20-20	-20	1 11/16 - 12UNF	1 1/4	99	73	64	1 7/8





Material: Nipple and ferrule: steel



1JC91N – O-Lok® ORFS (Short Version) UNF Swivel Nut



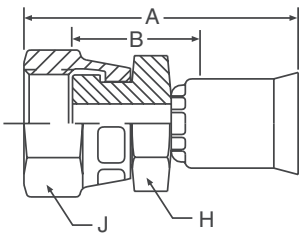
91N Series

Part No. #	size 	Connection Type Thread Size 	A mm	B mm	H inch 	J inch 
1JC91N-4-4	-04	9/16 - 18UNF	37	16	9/16	11/16
1JC91N-6-6	-06	11/16 - 16UNF	39	14	5/8	13/16
1JC91N-8-8	-08	13/16 - 16UNF	49	21	3/4	15/16
1JC91N-10-10	-10	1 - 14UNF	48	30	7/8	1 1/8
1JC91N-12-10	-10	1 3/16 - 12UNF	50	32	15/16	1 1/4
1JC91N-12-12	-12	1 3/16 - 12UNF	52	32	15/16	1 3/8
1JC91N-16-16	-16	1 7/16 - 12UNF	65	40	1.1	1 5/8
1JC91N-20-16	-16	1 11/16 - 12UNF	58	35	1 5/8	1 7/8
1JC91N-20-20	-20	1 11/16 - 12UNF	68	43	1 5/8	1 7/8


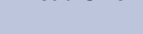


Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials on request

1JC91N – O-Lok® ORFS (Short Version) UNF Swivel Nut

Material: Stainless steel



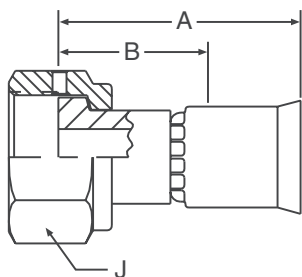
91N Series

Part No. #	size 	Connection Type Thread Size 	A mm	B mm	H inch 	J inch 
1JC91N-4-4C	-04	9/16 - 18UNF	37	16	9/16	11/16
1JC91N-6-6C	-06	11/16 - 16UNF	39	14	5/8	13/16
1JC91N-8-8C	-08	13/16 - 16UNF	49	21	3/4	15/16
1JC91N-10-10C	-10	1 - 14UNF	48	30	7/8	1 1/8
1JC91N-12-10C	-10	1 3/16 - 12UNF	50	32	15/16	1 1/4
1JC91N-12-12C	-12	1 3/16 - 12UNF	52	32	15/16	1 3/8
1JC91N-16-16C	-16	1 7/16 - 12UNF	65	40	1.1	1 5/8
1JC91N-20-16C	-16	1 11/16 - 12UNF	58	35	1 5/8	1 7/8
1JC91N-20-20C	-20	1 11/16 - 12UNF	68	43	1 5/8	1 7/8

Material: All components stainless steel (AISI 300 series)

1Q191N – “Ultra Seal” - Connector UNF Swivel Nut

91N Series



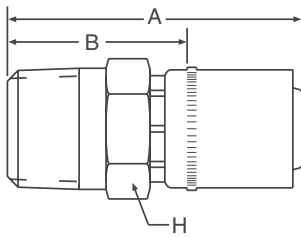
Part No. #	size	Connection Type		A mm	B mm	H inch
		Thread Size	Tube OD			
1Q191N-4-4C	-04	9/16 - 20UNF	1/4	41	19	11/16
1Q191N-6-6C	-06	3/4 - 20UNF	3/8	46	22	7/8
1Q191N-8-8C	-08	7/8 - 20UNF	1/2	41	24	1
1Q191N-12-12C	-12	1 5/16 - 20UNF	3/4	49	29	1 1/2

Material: Nipple and swivel nut stainless steel (AISI 316)
Stainless steel, ferrule (AISI 303)



10193N – NPTF Male - 60° Flare

93N Series



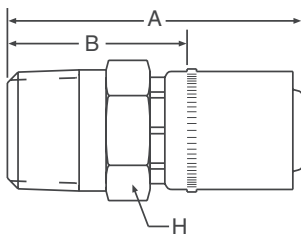
Part No. #	DN size mm inch				Connection Type Thread Size	A mm	B mm	H inch
	mm	inch	mm	inch				
10193N-8-8	12	-08	12.7	1/2	1/2 - 14NPTF	50	38	7/8
10193N-8-10	16	-10	15.9	5/8	1/2 - 14NPTF	50	38	1
10193N-12-12	20	-12	19.0	3/4	3/4 - 14NPTF	66	43	1 1/8
10193N-16-16	25	-16	25.4	1	1 - 11 1/2NPTF	76	44	1 3/8
10193N-20-20	32	-20	31.8	1 1/4	1 1/4 - 11 1/2NPTF	79	48	1 11/16
10193N-24-24	40	-24	38.1	1 1/2	1 1/2 - 11 1/2NPTF	87	52	2
10193N-32-32	50	-32	50.8	2	2 - 11 1/2NPTF	94	59	2 1/2

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

10193N – NPTF Male - 60° Flare

Material: Stainless steel

93N Series

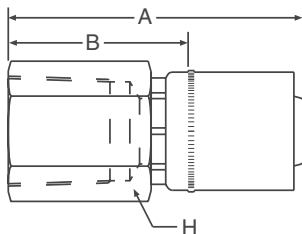



Part No. #	DN size mm inch				Connection Type Thread Size	A mm	B mm	H inch
	mm	inch	mm	inch				
10193N-8-8C	12	-08	12.7	1/2	1/2 - 14NPTF	50	38	7/8
10193N-8-10C	16	-10	15.9	5/8	1/2 - 14NPTF	50	38	1
10193N-12-12C	20	-12	19.0	3/4	3/4 - 14NPTF	66	43	1 1/8
10193N-16-16C	25	-16	25.4	1	1 - 11 1/2NPTF	76	44	1 3/8
10193N-20-20C	32	-20	31.8	1 1/4	1 1/4 - 11 1/2NPTF	79	48	1 11/16
10193N-24-24C	40	-24	38.1	1 1/2	1 1/2 - 11 1/2NPTF	87	52	2
10193N-32-32C	50	-32	50.8	2	2 - 11 1/2NPTF	94	59	2 1/2

Material: Stainless steel nipple (AISI 316), stainless steel ferrule (AISI 303)

10293N – NPTF Female rigid

93N Series

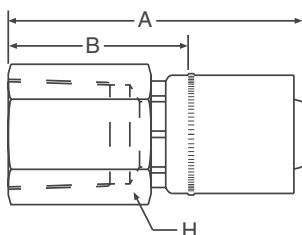



Part No. #	DN size mm inch				Connection Type	A mm	B mm	H inch
					Thread Size			
10293N-8-8	12	-08	12.7	1/2	1/2 - 14NPTF	55	44	7/8
10293N-12-12	20	-12	19.0	3/4	3/4 - 14NPTF	67	44	1 1/8
10293N-16-16	25	-16	25.4	1	1 - 11 1/2NPTF	79	51	1 3/8
10293N-20-20	32	-20	31.8	1 1/4	1 1/4 - 11 1/2NPTF	79	51	1 3/4
10293N-24-24	40	-24	38.1	1 1/2	1 1/2 - 11 1/2NPTF	91	56	2
10293N-32-32	50	-32	50.8	2	2 - 11 1/2NPTF	91	56	2 1/2

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

10293N – NPTF Female rigid Material: Stainless steel

93N Series



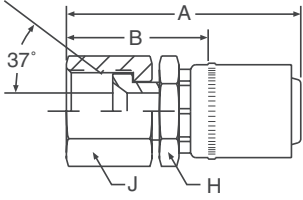
Part No. #	DN size mm inch				Connection Type	A mm	B mm	H inch
					Thread Size			
10293N-8-8C	12	-08	12.7	1/2	1/2 - 14NPTF	55	44	7/8
10293N-12-12C	20	-12	19.0	3/4	3/4 - 14NPTF	67	44	1 1/8
10293N-16-16C	25	-16	25.4	1	1 - 11 1/2NPTF	79	51	1 3/8
10293N-20-20C	32	-20	31.8	1 1/4	1 1/4 - 11 1/2NPTF	79	51	1 3/4
10293N-24-24C	40	-24	38.1	1 1/2	1 1/2 - 11 1/2NPTF	91	56	2
10293N-32-32C	50	-32	50.8	2	2 - 11 1/2NPTF	91	56	2 1/2

Material: Stainless steel nipple (AISI 316), stainless steel ferrule (AISI 303)



10693N – JIC - 37° Flare UNF Swivel Nut

93N Series

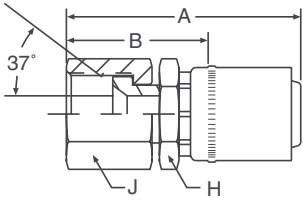


Part No. #	DN size mm inch				Connection Type Thread Size	A mm	B mm	H inch	J inch
	mm	inch	mm	inch					
10693N-8-8	12	-08	12.7	1/2	3/4 - 16UNF	48	35	7/8	7/8
10693N-10-10	16	-10	15.9	5/8	7/8 - 14UNF	63	41	1	1
10693N-12-12	20	-12	19.0	3/4	1 1/16 - 12UNF	70	44	1 1/8	1 1/4
10693N-16-16	25	-16	25.4	1	1 5/16 - 12UNF	78	46	1 3/8	1 1/2
10693N-20-20	32	-20	31.8	1 1/4	1 5/8 - 12UNF	81	49	1 3/4	1 13/16
10693N-24-24	40	-24	38.1	1 1/2	1 7/8 - 12UNF	91	57	2	2 1/8
10693N-32-32	50	-32	50.8	2	2 1/2 - 12UNF	98	62	2 1/2	2 3/4

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

10693N – JIC - 37° Flare UNF Swivel Nut Material: Stainless steel

93N Series

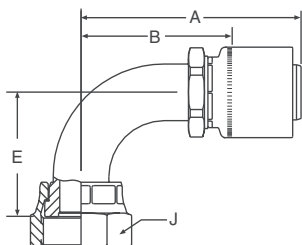


Part No. #	DN size mm inch				Connection Type Thread Size	A mm	B mm	H inch	J inch
	mm	inch	mm	inch					
10693N-8-8C	12	-08	12.7	1/2	3/4 - 16UNF	48	35	7/8	7/8
10693N-10-10C	16	-10	15.9	5/8	7/8 - 14UNF	63	41	1	1
10693N-12-12C	20	-12	19.0	3/4	1 1/16 - 12UNF	70	44	1 1/8	1 1/4
10693N-16-16C	25	-16	25.4	1	1 5/16 - 12UNF	78	46	1 3/8	1 1/2
10693N-20-20C	32	-20	31.8	1 1/4	1 5/8 - 12UNF	81	49	1 3/4	1 13/16
10693N-24-24C	40	-24	38.1	1 1/2	1 7/8 - 12UNF	91	57	2	2 1/8
10693N-32-32C	50	-32	50.8	2	2 1/2 - 12UNF	98	62	2 1/2	2 3/4

Material: Stainless steel nipple (AISI 316), stainless steel ferrule (AISI 303)

1J993N – O-Lok® ORFS 90° Elbow UNF Swivel Nut

93N



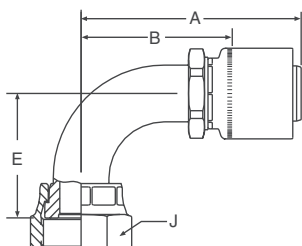
Part No. #	DN size mm inch				Connection Type		A mm	B mm	E mm	J inch
	mm	inch	Thread Size	Tube OD						
1J993N-16-16	25	-16	25.4	1	1 7/16 - 12UNF	1	101	70	56	1 5/8
1J993N-20-20	32	-20	31.8	1 1/4	1 11/16 - 12UNF	1 1/4	108	76	64	1 7/8

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials on request

1J993N – O-Lok® ORFS 90° Elbow UNF Swivel Nut

Material: Stainless steel

93N



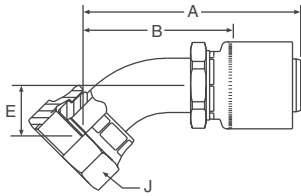
Part No. #	DN size mm inch				Connection Type		A mm	B mm	E mm	J inch
	mm	inch	Thread Size	Tube OD						
1J993N-16-16C	25	-16	25.4	1	1 7/16 - 12UNF	1	101	70	56	1 5/8
1J993N-20-20C	32	-20	31.8	1 1/4	1 11/16 - 12UNF	1 1/4	108	76	64	1 7/8




Material: Stainless steel



1J793N – O-Lok® ORFS 45° Elbow UNF Swivel Nut

93N Series



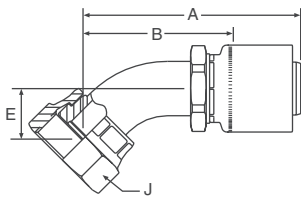
Part No. #	DN size mm inch				Connection Type		A mm	B mm	E mm	J inch
					Thread Size 	Tube OD 				
1J793N-16-16	25	-16	25.4	1	1 7/16 - 12UNF	1	102	70	24	1 5/8
1J793N-20-20	32	-20	31.8	1 1/4	1 11/16 - 12UNF	1 1/4	106	75	25	1 7/8




Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials on request

1J793N – O-Lok® ORFS 45° Elbow UNF Swivel Nut

Material: Stainless steel

93N

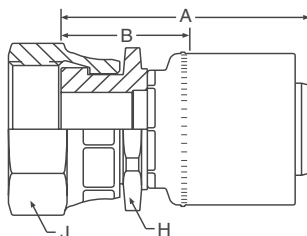


Part No. #	DN size mm inch				Connection Type		A mm	B mm	E mm	J inch
					Thread Size 	Tube OD 				
1J793N-16-16C	25	-16	25.4	1	1 7/16 - 12UNF	1	102	70	24	1 5/8
1J793N-20-20C	32	-20	31.8	1 1/4	1 11/16 - 12UNF	1 1/4	106	75	25	1 7/8

Material: Stainless steel

1JC93N – O-Lok® ORFS (Short Version) UNF Swivel Nut

93N Series

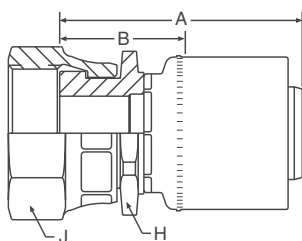


Part No. #	DN size mm inch				Connection Type		A mm	B mm	H inch	J inch
	mm	inch	Thread Size	Tube OD						
1JC93N-16-16	25	-16	25.4	1	1 7/16 - 12UNF	1	66	35	1 3/8	1 5/8
1JC93N-20-20	32	-20	31.8	1 1/4	1 11/16 - 12UNF	1 1/4	65	33	1 5/16	1 7/8

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials on request

1JC93N – O-Lok® ORFS (Short Version) UNF Swivel Nut Material: Stainless steel

93N Series

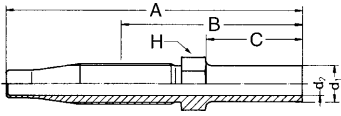


Part No. #	DN size mm inch				Connection Type		A mm	B mm	H inch	J inch
	mm	inch	Thread Size	Tube OD						
1JC93N-16-16C	25	-16	25.4	1	1 7/16 - 12UNF	1	66	35	1 3/8	1 5/8
1JC93N-20-20C	32	-20	31.8	1 1/4	1 11/16 - 12UNF	1 1/4	65	33	1 5/16	1 7/8

Material: Stainless steel nipple (AISI 316), stainless steel ferrule (AISI 303)



1DAB – Metric Standpipe – Light Series

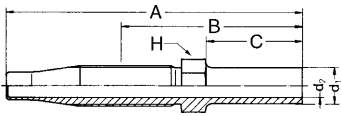


AB Series

Part No. #	DN size mm inch				Dia- meter		A mm	B mm	C mm	H mm
					d ₁	d ₂				
1DAB-6-025	4	-025	4.0	5/32	6.0	4.0	49.5	33.0	20.0	10
1DAB-8-04	6	-04	6.4	1/4	8.0	5.2	67.5	37.0	22.0	11
1DAB-10-05	8	-05	8.0	5/16	10.0	6.8	72.0	43.0	24.0	12
1DAB-12-06	10	-06	9.7	3/8	12.0	8.8	79.5	44.0	25.0	14
1DAB-15-06	10	-06	9.7	3/8	15.0	8.8	79.5	44.0	25.0	17
1DAB-15-08	12	-08	12.8	1/2	15.0	11.7	86.0	48.0	25.0	17
1DAB-18-08	12	-08	12.8	1/2	18.0	11.7	86.0	48.0	25.0	19

Material: Steel, surface protection according to A3F

3DAB – Metric Standpipe – Heavy Series

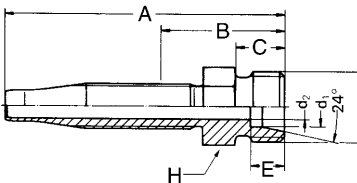


AB Series

Part No. #	DN size mm inch				Dia- meter		A mm	B mm	C mm	H mm
					d ₁	d ₂				
3DAB-8-025	4	-025	4.0	5/32	8.0	4.0	51.5	35.0	22.0	10
3DAB-10-04	6	-04	6.4	1/4	10.0	5.2	69.5	39.0	24.0	12
3DAB-12-04	6	-04	6.4	1/4	12.0	5.2	69.5	39.0	24.0	14
3DAB-12-05	8	-05	8.0	5/16	12.0	6.8	72.0	43.0	24.0	14

Material: Steel, surface protection according to A3F

D0AB – Metric Male 24° Flare – Light Series – DIN 20078D

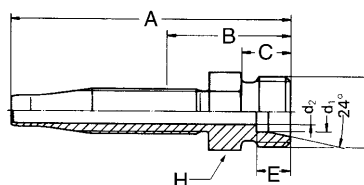


AB Series

Part No. #	DN size mm inch				Dia- meter		Thread Size	A mm	B mm	C mm	E mm	H mm
					d ₁	d ₂						
D0AB-6-025	4	-025	4.0	5/32	6.0	4.0	M12x1.5	39.5	22.0	10.0	7.0	12
D0AB-8-04	6	-04	6.4	1/4	8.0	5.2	M14x1.5	56.5	25.0	10.0	7.0	14
D0AB-10-05	8	-05	8.0	5/16	10.0	6.8	M16x1.5	59.0	27.0	11.0	7.0	17
D0AB-12-05	8	-05	8.0	5/16	12.0	6.8	M18x1.5	59.0	27.0	11.0	7.0	19
D0AB-12-06	10	-06	9.7	3/8	12.0	8.8	M18x1.5	65.6	30.0	11.0	7.0	19

Material: Steel, surface protection according to A3F

D2AB – Metric Male 24° Flare – Heavy Series – DIN 20078D

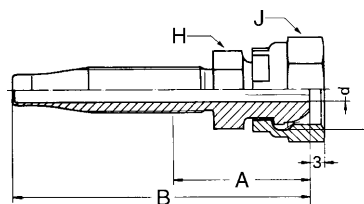


AB Series

Part No. #	DN size mm inch				Dia- meter		Thread Size	A mm	B mm	C mm	E mm	H mm
					d ₁	d ₂						
D2AB-6-025	4	-025	4.0	5/32	6.0	4.0	M14x1.5	42.0	25.0	12.0	7.0	14
D2AB-10-04	6	-04	6.4	1/4	10.0	5.2	M18x1.5	59.5	28.0	12.0	7.5	19
D2AB-12-05	8	-05	8.0	5/16	12.0	6.8	M20x1.5	60.0	28.0	12.0	7.5	22

Material: Steel, surface protection according to A3F

C3AB – Sealing Head – Light Series – Metric Swivel Nut – DIN 20078A

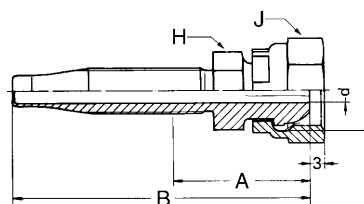


AB Series

Part No. #	DN size mm inch				Dia- meter	Thread Size	A mm	B mm	H mm	J mm
C3AB-6-025	4	-025	4.0	5/32	4.0	M12x1.5	42.5	25.0	10	17
C3AB-8-04	6	-04	6.4	1/4	5.2	M14x1.5	58.5	27.0	12	17
C3AB-10-04	6	-04	6.4	1/4	5.2	M16x1.5	59.5	27.0	14	19
C3AB-10-05	8	-05	8.0	5/16	6.8	M16x1.5	61.0	29.0	14	19
C3AB-12-05	8	-05	8.0	5/16	6.8	M18x1.5	63.0	31.0	17	22
C3AB-12-06	10	-06	9.7	3/8	8.8	M18x1.5	69.5	33.0	17	22
C3AB-15-06	10	-06	9.7	3/8	8.8	M22x1.5	70.5	34.0	22	27

Material: Steel, surface protection according to A3F

U0AB – Sealing Head – Inch Swivel Nut

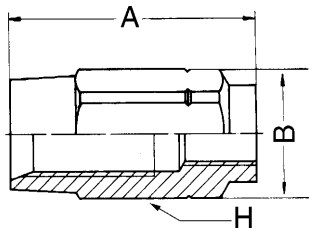


AB Series

Part No. #	DN size mm inch				Dia- meter	Thread Size	A mm	B mm	H mm	J mm
U0AB-4-025	4	-025	4.0	5/32						
U0AB-6-025	4	-025	4.0	5/32	4.0	DR1/4"-4F	42.5	25.0	12	17
U0AB-4-04	6	-04	6.4	1/4	5.2	DR1/4"-6.3F	58.5	27.0	12	17
U0AB-6-06	10	-06	9.7	3/8	8.8	DR3/8"-10F	69.5	33.0	17	22

Material: Steel, surface protection according to A3F

200AF – Reusable Socket

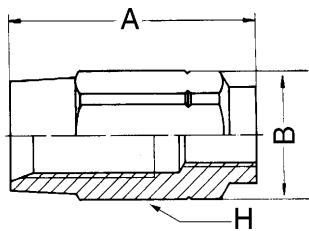


AF Series

Part No. #	DN size mm inch				A mm	B mm	H mm
200AF-025	4	-025	4.0	5/32	25.0	13.3	12
200AF-04	6	-04	6.4	1/4	36.0	18.8	17
200AF-05	8	-05	8.0	5/16	38.0	20.9	19
200AF-06	10	-06	9.7	3/8	44.5	24.0	22
200AF-08	12	-08	12.8	1/2	51.0	30.2	27

Material: Steel, surface protection according to A3F

200BF – Reusable Socket

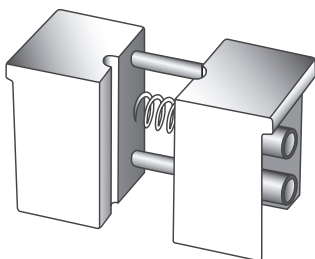


BF Series

Part No. #	DN size mm inch				A mm	B mm	H mm
200BF-025	4	-025	4.0	5/32	25.0	13.3	12
200BF-04	6	-04	6.4	1/4	36.0	18.8	17
200BF-05	8	-05	8.0	5/16	38.0	20.9	19
200BF-06	10	-06	9.7	3/8	44.5	24.0	22
200BF-08	12	-08	12.8	1/2	51.0	30.2	27

Material: Steel, surface protection according to A3F

Tools – Clamping Jaw



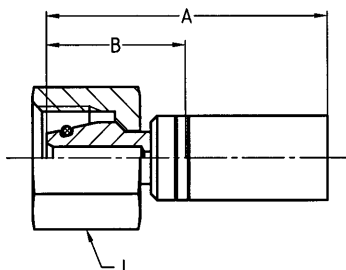
Part No. #	Hose Type PTA	Hose Type PTB
PTW-8	025	–
PTW-9	–	025
PTW-11	04	–
PTW-12	–	04
PTW-13	05	–
PTW-15	–	05
PTW-17	06	–
PTW-18	–	06
PTW-22	08	08

1C9EX – 24° Sealing Cone / O Ring

Heavy Series

Metric Swivel Nut

DIN 20 078 P



EX Series

Part No. #	DN size				Connection Type		A mm	B mm	J mm
	mm	inch	mm	inch	Thread Size	Tube OD			
1C9EX-6-012	2	-012	2.0	5/64	M14x1.5	6	32.0	21	17
1C9EX-8-012	2	-012	2.0	5/64	M16x1.5	8	37.0	26	19
1C9EX-8-02	3	-02	3.2	1/8	M16x1.5	8	32.0	22	19
1C9EX-8-025	4	-025	4.0	5/32	M16x1.5	8	44.5	22	19

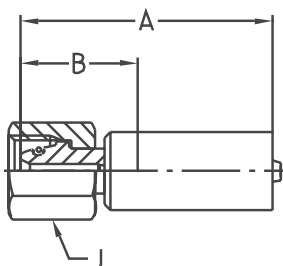
Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1CAEX – 24° Sealing Cone / O Ring

Light Series

Metric Swivel Nut

DIN 20 078 N

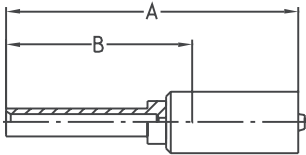


EX Series

Part No. #	DN size				Connection Type		A mm	B mm	J mm
	mm	inch	mm	inch	Thread Size	Tube OD			
1CAEX-6-012	2	-012	2.0	5/64	M12x1.5	6	32	21.0	14
1CAEX-8-012	2	-012	2.0	5/64	M14x1.5	8	37	26.0	17
1CAEX-6-025	4	-025	4.0	5/32	M12x1.5	6	42	19.5	14

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

11DEX – Metric Standpipe Light Series



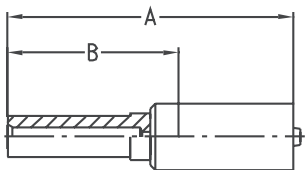
EX Series

Part No. #	DN size mm inch				Tube OD	A mm	B mm
11DEX-4-012	2	-012	2.0	5/64	4	37	26.0
11DEX-4-025	4	-025	4.0	5/32	4	52	29.5
11DEX-6-025	4	-025	4.0	5/32	6	54	31.5

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Not recommended for new constructions. Please refer to end connection C3 or CA.

13DEX – Metric Standpipe Heavy Series



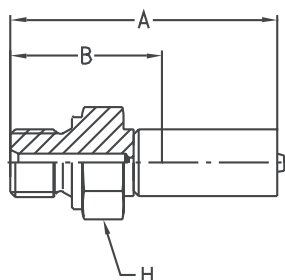
EX Series

Part No. #	DN size mm inch				Tube OD	A mm	B mm
13DEX-6-012	2	-012	2.0	5/64	6	37	26.0
13DEX-8-012	2	-012	2.0	5/64	8	37	26.0
13DEX-8-025	4	-025	4.0	5/32	8	56	33.5

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Not recommended for new constructions. Please refer to end connection C9.

1D9EX – BSP Male DIN 3852 Shape A

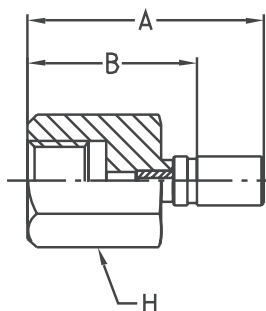


EX Series

Part No. #	DN size		mm		inch		Connection Type	A	B	H
	mm	inch	mm	inch	mm	inch	Thread Size	mm	mm	mm
1D9EX-4-012	2	-012	2.0	5/64			G 1/4	39.5	28.5	19

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1BPEX – Female BSP Rigid



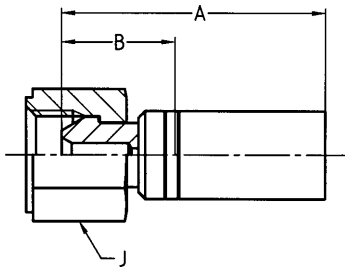
EX Series

Part No. #	DN size		mm		inch		Connection Type	A	B	H
	mm	inch	mm	inch	mm	inch	Thread Size	mm	mm	mm
1BPEX-4-012	2	-012	2.0	5/64			G 1/4	39	28	19


Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request



192EX – Sealing Head (60°) BSP Swivel Nut

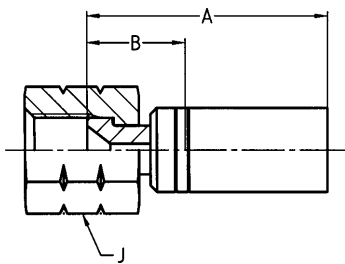


EX Series


Part No. #	DN size mm inch				Connection Type	A mm	B mm	J mm
					Thread Size			
192EX-4-025	4	-025	4.0	5/32	G 1/4	39.5	17.0	17
192EX-6-025	4	-025	4.0	5/32	G 3/9	40.0	17.5	19

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

106EX – JIC 37° Flare UNF Swivel Nut

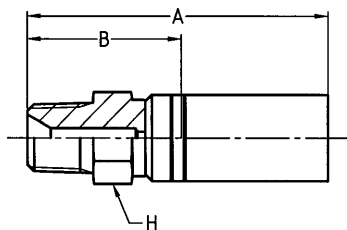


EX Series

Part No. #	DN size mm inch				Connection Type	A mm	B mm	J mm
					Thread Size			
106EX-3-012	2	-012	2.0	5/64	3/8 - 24UNF	23	12	14
106EX-4-012	2	-012	2.0	5/64	7/16 - 20UNF	25	14	17

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

101EX – NPTF Male - 60° Flare

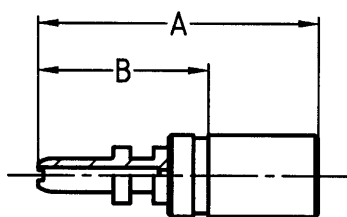


EX Series

Part No. #	DN size mm inch				Connection Type Thread Size	A mm	B mm	H mm
101EX-4-012	2	-012	2.0	5/64	1/4 - 18NPTF	39	28.0	14
101EX-2-025	4	-025	4.0	5/32	1/8 - 27NPTF	46	23.5	12
101EX-4-025	4	-025	4.0	5/32	1/4 - 18NPTF	50	27.5	14

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1YPEX – Quick Connect Fitting with Clip

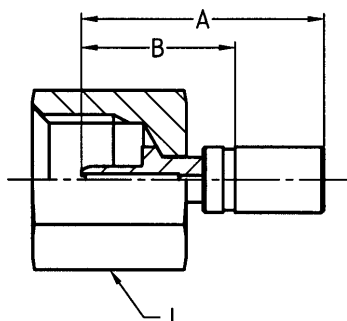


EX Series

Part No. Fitting #	Part No. Clip #	DN size mm inch				Connection Type Thread Size	A mm	B mm
1YPEX-3-012	HG-DN2	02	-12	2.0	5/64	-	28.0	17

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1YREX – Quick Connect Fitting Metric Swivel Nut



EX Series

Part No. #	DN size mm inch				Connection Type Thread Size	A mm	B mm	J mm
1YREX-10-012	2	-012	2.0	5/64	M16x1.5	30	19	19
1YREX-11-012	2	-012	2.0	5/64	M16x2	30	19	19

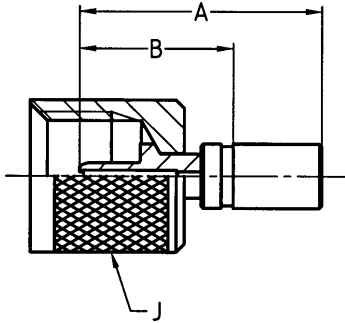
Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request






1R8EX – Quick Connect Fitting

Metric Swivel Nut

Knurled

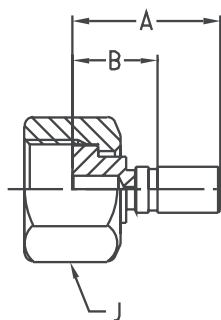


EX Series

Part No.	DN size mm inch				Connection Type	A mm	B mm
					Thread Size		
#							
1R8EX-11-012	2	-012	2.0	5/64	M16x2	30	19

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1JCEX – O-Lok® ORFS (short version) UNF Swivel Nut

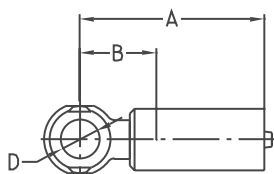


EX Series

Part No. #	DN size mm inch				Connection Type			A mm	B mm	J mm
	2	-012	2.0	5/64	Thread Size	Tube OD	J mm			
1JCEX-4-012	2	-012	2.0	5/64	9/16 - 18 UNF	1/4	27.8	16.8	14	
1JCEX-6-012	2	-012	2.0	5/64	11/16 - 16 UNF	3/8	26.0	15.0		

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

149EX – Banjo Union DIN 7642



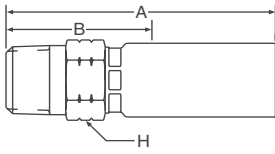
EX Series

Part No. #	DN size mm inch				Tube OD	A mm	B mm
149EX-8-02	3	-02	3.2	1/8	8	22.5	12.5
149EX-10-025	4	-025	4.0	5/32	10	44.0	21.5




Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request



101HP – NPTF Male - 60° Flare

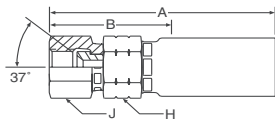


HP Series





Part No. #	DN size mm inch				Connection Type Thread Size	A mm	B mm	H inch
								
101HP-2-3	5	-03	4.8	3/16	1/8 - 27NPTF	49	30	9/16
101HP-4-3	5	-03	4.8	3/16	1/4 - 18NPTF	54	35	11/16
101HP-6-3	5	-03	4.8	3/16	3/8 - 18NPTF	56	38	3/4
101HP-2-4	6	-04	6.4	1/4	1/8 - 27NPTF	53	30	5/8
101HP-4-4	6	-04	6.4	1/4	1/4 - 18NPTF	58	35	11/16
101HP-6-4	6	-04	6.4	1/4	3/8 - 18NPTF	60	35	3/4
101HP-4-6	10	-06	9.5	3/8	1/4 - 18NPTF	68	38	3/4
101HP-6-6	10	-06	9.5	3/8	3/8 - 18NPTF	68	38	3/4
101HP-8-6	10	-06	9.5	3/8	1/2 - 14NPTF	68	44	15/16

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

106HP – JIC - 37° Flare UNF Swivel Nut



HP Series

Part No. #	DN size mm inch				Connection Type Thread Size	A mm	B mm	H inch	J inch
									
106HP-4-3	5	-03	4.8	3/16	7/16 - 20UNF	56	37	9/16	5/8
106HP-4-4	6	-04	6.4	1/4	7/16 - 20UNF	63	40	5/8	5/8
106HP-6-4	6	-04	6.4	1/4	9/16 - 18UNF	63	38	5/8	3/4
106HP-6-6	10	-06	9.5	3/8	9/16 - 18UNF	72	44	3/4	3/4

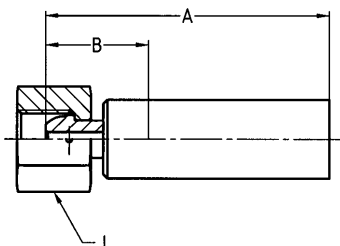
Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1C3LX – Sealing Head

Light Series

Metric Swivel Nut

DIN 20 078 A



LX Series

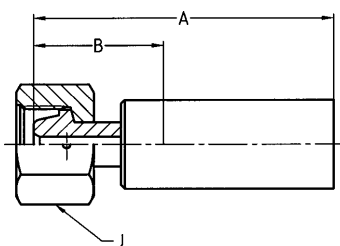
Part No. #	DN size mm inch				Connection Type Thread Size	A mm	B mm	J mm
1C3LX-8-03	5	-03	4.8	3/16	M14x1.5	64.0	24.5	22
1C3LX-8-04	6	-04	6.4	1/4	M14x1.5	69.0	25.0	22

Material: Special steel, other special materials available upon request

1C6LX – Sealing Head

Heavy Series

Metric Swivel Nut



LX Series

Part No. #	DN size mm inch				Connection Type Thread Size	A mm	B mm	J mm
1C6LX-12-05	8	-05	7.9	5/16	M20x1.5	77.5	33.5	27

Material: Special steel, other special materials available upon request

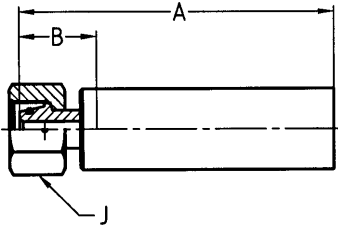


1C9LX – 24° Sealing Cone / O-Ring



Heavy Series

Metric Swivel Nut

DIN 20 078 P



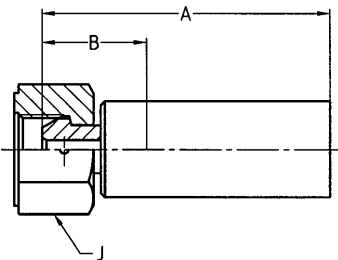
LX Series

Part No. #	DN size mm inch				Connection Type	A mm	B mm	J mm
								
1C9LX-14-06	10	-06	9.5	3/8	M22x1.5	75.0	30.5	30
1C9LX-16-08	12	-08	12.7	1/2	M24x1.5	87.5	34.0	32
1C9LX-25-12	20	-12	19.0	3/4	M36x2	92.0	39.0	46
1C9LX-30-16	25	-16	25.4	1	M42x2	98.0	45.0	50



Material: Special steel, other special materials available upon request

192LX – Sealing Cone (60°)

BSP Swivel Nut

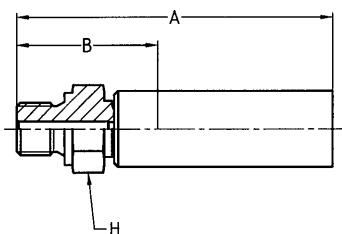


LX Series

Part No. #	DN size mm inch				Connection Type	A mm	B mm	J mm
								
192LX-4-03	5	-03	4.8	3/16	G 1/4	64	24.5	22
192LX-6-05	8	-05	7.9	5/16	G 3/8	69	25.0	27
192LX-8-06	10	-06	9.5	3/8	G 1/2	66	21.5	30
192LX-8-08	12	-08	12.7	1/2	G 1/2	74.5	21.0	32
192LX-16-12	20	-12	19.0	3/4	G 1	77	24.0	41
192LX-20-16	25	-16	25.4	1	G 1 1/4	78	25.0	50

Material: Special steel, other special materials available upon request

1D9LX – BSP Male DIN 3852 Shape A

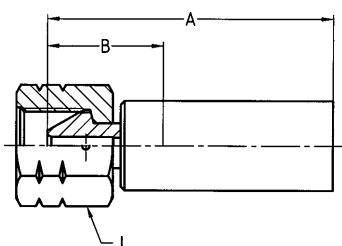


LX Series

Part No. #	DN size mm inch		Connection Type Thread Size		A mm	B mm	J mm
1D9LX-4-04	6	-04	6.4	1/4	79.5	35.5	19

Material: Special steel, other special materials available upon request

1AYLX – 59° Sealing Cone UNF Swivel Nut



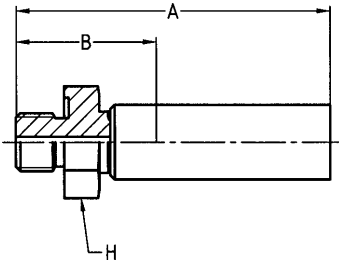
LX Series

Part No. #	DN size mm inch		Connection Type Thread Size		A mm	B mm	J mm
1AYLX-6-03	5	-03	4.8	3/16	65.5	26.0	22
1AYLX-8-05	8	-05	7.9	5/16	74.0	30.0	27
1AYLX-8-06	10	-06	9.5	3/8	70.0	25.5	27
1AYLX-11-08	12	-08	12.7	1/2	80.0	26.5	32
1AYLX-16-12	20	-12	19.0	3/4	82.0	29.0	41

Material: Special steel, other special materials available upon request

1Y9LX – BSP Male - for USIT Ring

LX Series



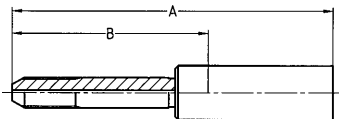
Part No. #	DN size mm inch				Connection Type	A	B	J
	mm	inch	mm	inch	Thread Size	mm	mm	mm
1Y9LX-4-03	5	-03	4.8	3/16	G 1/4	71.5	32.0	22

Material: Special steel, other special materials available upon request

USIT-Ring = Part No. 5954

1YALX – High Pressure Connector 59° Cone UNF - Left Hand Thread

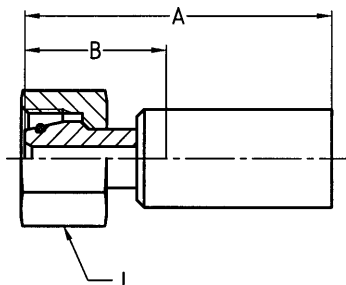
LX Series



Part No. #	DN size mm inch				Connection Type	A	B
	mm	inch	mm	inch	Thread Size	mm	mm
1YALX-1-025	4	-025	4.0	5/32	1/4 - 28UNF-LH	87.0	50.0
1YALX-1-03	5	-03	4.8	3/16	1/4 - 28UNF-LH	92.0	52.5
1YALX-3-03	5	-03	4.8	3/16	3/8 - 24UNF-LH	97.0	57.5

Material: Special steel, other special materials available upon request

1C9NX – 24° Sealing Cone / O-Ring Heavy Series Metric Swivel Nut DIN 20 078 P

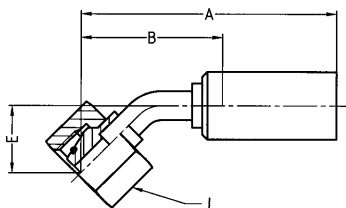


NX Series

Part No. #	DN size				Connection Type		A mm	B mm	J mm
	mm	inch	Thread Size	Tube OD					
1C9NX-8-04	6	-04	6.4	1/4	M14x1.5	8	59.5	27.5	19
1C9NX-10-04	6	-04	6.4	1/4	M18x1.5	10	64.8	33.0	22
1C9NX-12-05	8	-05	7.9	5/16	M20x1.5	12	63.0	29.0	24
1C9NX-14-06	10	-06	9.5	3/8	M22x1.5	14	70.5	30.0	27
1C9NX-16-08	12	-08	12.7	1/2	M24x1.5	16	77.5	34.5	30
1C9NX-20-10	16	-10	15.9	5/8	M30x2	20	91.0	39.5	36
1C9NX-25-12	20	-12	19.0	3/4	M36x2	25	95.5	44.5	46
1C9NX-30-16	25	-16	25.4	1	M42x2	30	98.0	47.0	50
1C9NX-38-20	32	-20	31.8	1 1/4	M52x2	38	113.0	52.0	60

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

10CNX – 24° Sealing Cone / O-Ring 45° Elbow Heavy Series Metric Swivel Nut DIN 20 078 P



NX Series

Part No. #	DN size				Connection Type		A mm	B mm	E mm	J mm
	mm	inch	Thread Size	Tube OD						
10CNX-10-04	6	-04	6.4	1/4	M18x1.5	10	81.8	50	24	22
10CNX-12-05	8	-05	7.9	5/16	M20x1.5	12	76.0	42	20	24
10CNX-12-06	10	-06	9.5	3/8	M20x1.5	12	80.5	40	19	24
10CNX-14-06	10	-06	9.5	3/8	M22x1.5	14	80.5	40	19	27
10CNX-16-08	12	-08	12.7	1/2	M24x1.5	16	96.0	53	23	30
10CNX-20-10	16	-10	15.9	5/8	M30x2	20	119.5	68	30	36
10CNX-25-12	20	-12	19.0	3/4	M36x2	25	136.5	85	37	46
10CNX-30-16	25	-16	25.4	1	M42x2	30	136.0	85	43	50

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

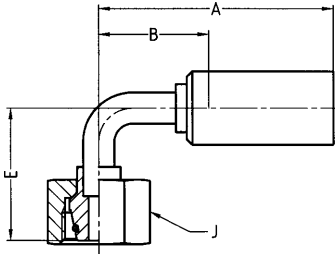
11CNX – 24° Sealing Cone / O-Ring 90° Elbow

Heavy Series

Metric Swivel Nut

DIN 20 078 P

NX Series



Part No. #	DN size mm inch				Connection Type		A mm	B mm	E mm	J mm
	mm	inch	Thread Size	Tube OD						
11CNX-10-04	6	-04	6.4	1/4	M18x1.5	10	65.8	34	36	22
11CNX-12-05	8	-05	7.9	5/16	M20x1.5	12	64.0	30	36	24
11CNX-14-06	10	-06	9.5	3/8	M22x1.5	14	70.5	30	36	27
11CNX-16-08	12	-08	12.7	1/2	M24x1.5	16	85.0	42	44	30
11CNX-20-10	16	-10	15.9	5/8	M30x2	20	104.5	53	61	36
11CNX-25-12	20	-12	19.0	3/4	M36x2	25	116.5	65	62	46
11CNX-30-16	25	-16	25.4	1	M42x2	30	116.0	65	76	50

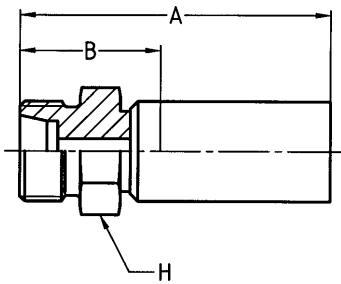
Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1D2NX – Metric Male 24° Flare

Heavy Series

DIN 20 078 E

NX Series



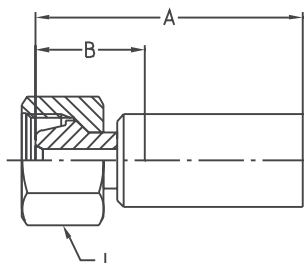
Part No. #	DN size mm inch				Connection Type		A mm	B mm	J mm
	mm	inch	Thread Size	Tube OD					
1D2NX-10-04	6	-04	6.4	1/4	M18x1.5	10	64.8	33.0	19
1D2NX-12-05	8	-05	7.9	5/16	M20x1.5	12	62.0	28.0	22
1D2NX-14-06	10	-06	9.5	3/8	M22x1.5	14	71.0	30.5	22
1D2NX-16-08	12	-08	12.7	1/2	M24x1.5	16	74.0	31.0	24
1D2NX-20-10	16	-10	15.9	5/8	M30x2	20	88.0	36.5	30
1D2NX-25-12	20	-12	19.0	3/4	M36x2	25	90.0	39.0	36
1D2NX-30-16	25	-16	25.4	1	M42x2	30	92.0	41.0	46

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1C6NX – 24° Sealing Cone

Heavy Series

Metric Swivel Nut



NX Series

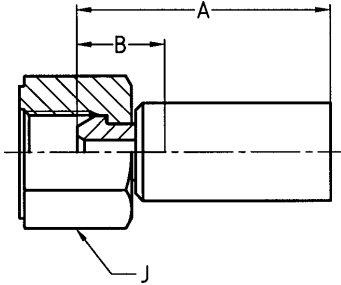
Part No. #	DN size		mm		inch		Connection Type		A mm	B mm	J mm
	mm	inch	mm	inch	Thread Size	Tube OD					
1C6NX-8-04	6	-04	6.4	1/4	M16x1.5	8	58.0	26.0	19		
1C6NX-10-04	6	-04	6.4	1/4	M18x1.5	10	59.0	27.0	22		
1C6NX-12-05	8	-05	7.9	5/16	M20x1.5	12	57.5	23.5	24		
1C6NX-14-06	10	-06	9.5	3/8	M22x1.5	14	64.0	23.5	27		
1C6NX-16-08	12	-08	12.7	1/2	M24x1.5	16	67.0	24.0	30		
1C6NX-20-10	16	-10	15.9	5/8	M30x2	20	78.5	27.0	36		
1C6NX-25-12	20	-12	19.0	3/4	M36x2	25	81.0	30.0	46		
1C6NX-30-16	25	-16	25.4	1	M42x2	30	82.0	31.0	50		



Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request



192NX – Sealing Head (60°) BSP Swivel Nut

NX Series

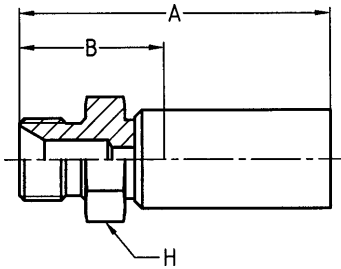




Part No. #	DN size mm inch				Connection Type	A mm	B mm	J mm
					Thread Size 			
192NX-4-04	6	-04	6.4	1/4	G 1/4	56.3	24.5	19
192NX-6-05	8	-05	7.9	5/16	G 3/8	52.0	18.0	22
192NX-6-06	10	-06	9.5	3/8	G 3/8	59.0	18.5	22
192NX-8-06	10	-06	9.5	3/8	G 1/2	60.0	19.5	27
192NX-8-08	12	-08	12.7	1/2	G 1/2	63.0	20.0	27
192NX-12-10	16	-10	15.9	5/8	G 3/4	73.0	21.5	32
192NX-12-12	20	-12	19.0	3/4	G 3/4	76.5	25.5	32
192NX-16-12	20	-12	19.0	3/4	G 1	77.0	26.0	41
192NX-16-16	25	-16	25.4	1	G 1	87.5	26.5	41
192NX-20-16	25	-16	25.4	1	G 1 1/4	77.0	26.0	50

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

13BNX – BSP Male 60° Flare

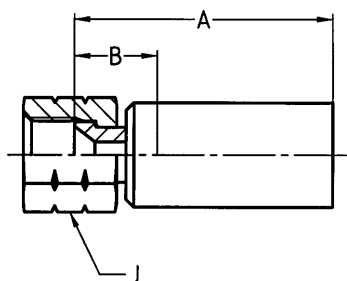
NX Series





Part No. #	DN size mm inch				Connection Type	A mm	B mm	J mm
					Thread Size 			
13BNX-4-04	6	-04	6.4	1/4	G 1/4	63.8	32.0	17
13BNX-6-05	8	-05	7.9	5/16	G 3/8	63.5	29.5	22
13BNX-6-06	10	-06	9.5	3/8	G 3/8	70.5	30.0	22
13BNX-8-06	10	-06	9.5	3/8	G 1/2	75.5	35.0	22
13BNX-8-08	12	-08	12.7	1/2	G 1/2	78.5	35.5	24
13BNX-12-10	16	-10	15.9	5/8	G 3/4	92.0	40.5	32
13BNX-12-12	20	-12	19.0	3/4	G 3/4	92.0	41.0	32
13BNX-16-12	20	-12	19.0	3/4	G 1	100.5	49.5	36
13BNX-16-16	25	-16	25.4	1	G 1	100.5	49.5	36
13BNX-20-16	25	-16	25.4	1	G 1 1/4	102.5	51.5	50
13BNX-24-20	32	-20	31.8	1 1/4	G 1 1/2	117.5	56.5	55

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

106NX – JIC - 37° Flare UNF Swivel Nut

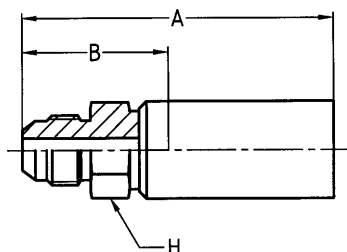


NX Series



Part No. #	DN size mm inch				Connection Type	A mm	B mm	J mm
					Thread Size 			
106NX-5-04	6	-04	6.4	1/4	1/2 - 20UNF	54.8	23.0	19
106NX-6-05	8	-05	7.9	5/16	9/16 - 18UNF	50.0	16.0	19
106NX-6-06	10	-06	9.5	3/8	9/16 - 18UNF	58.5	18.0	22
106NX-8-06	10	-06	9.5	3/8	3/4 - 16UNF	59.0	18.5	24
106NX-8-08	12	-08	12.7	1/2	3/4 16UNF	63.5	20.5	27
106NX-10-08	12	-08	12.7	1/2	7/8 - 14UNF	62.0	19.0	27
106NX-10-10	16	-10	15.9	5/8	7/8 - 14UNF	73.5	22.0	27
106NX-12-10	16	-10	15.9	5/8	1 1/16 - 12UNF	73.0	21.5	32
106NX-12-12	20	-12	19.0	3/4	1 1/16 - 12UNF	79.0	28.0	36
106NX-16-12	20	-12	19.0	3/4	1 5/16 - 12UNF	75.0	24.0	41
106NX-16-16	25	-16	25.4	1	1 5/16 - 12UNF	76.5	25.5	41
106NX-20-16	25	-16	25.4	1	1 5/8 - 12UNF	75.0	24.0	50

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

103NX – JIC Male - 37° Cone

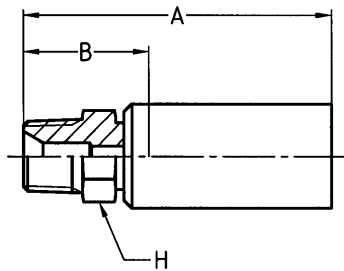


NX Series



Part No. #	DN size mm inch				Connection Type	A mm	B mm	J mm
					Thread Size 			
103NX-5-04	6	-04	6.4	1/4	1/2 - 20UNF	66.8	35.0	14
103NX-6-05	8	-05	7.9	5/16	9/16 - 18UNF	64.0	30.0	17
103NX-8-06	10	-06	9.5	3/8	3/4 - 16UNF	74.0	33.5	22
103NX-10-08	12	-08	12.7	1/2	7/8 - 14UNF	82.5	39.5	24
103NX-12-10	16	-10	15.9	5/8	1 1/16 - 12UNF	94.0	42.5	30
103NX-16-12	20	-12	19.0	3/4	1 5/16 - 12UNF	95.0	44.0	36
103NX-20-16	25	-16	25.4	1	1 5/8 - 12UNF	96.5	45.5	46
103NX-24-20	32	-20	31.8	1 1/4	1 7/8 - 12UNF	109.5	48.5	50

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

101NX – NPTF Male - 60° Flare

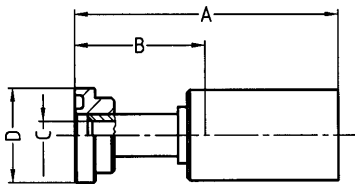


NX Series


Part No. #	DN size mm inch				Connection Type	A mm	B mm	J mm
								
101NX-4-04	6	-04	6.4	1/4	1/4 - 18NPTF	64.8	33.0	14
101NX-6-05	8	-05	7.9	5/16	3/8 - 18NPTF	64.0	30.0	19
101NX-6-06	10	-06	9.5	3/8	3/8 - 18NPTF	71.0	30.5	19
101NX-8-06	10	-06	9.5	3/8	1/2 - 14NPTF	76.0	35.5	22
101NX-8-08	12	-08	12.7	1/2	1/2 - 14NPTF	79.0	36.0	22
101NX-12-10	16	-10	15.9	5/8	3/4 - 14NPTF	89.0	37.5	27
101NX-12-12	20	-12	19.0	3/4	3/4 - 14NPTF	91.0	40.0	27
101NX-16-12	20	-12	19.0	3/4	1 - 11 1/2NPTF	96.0	45.0	36
101NX-16-16	25	-16	25.4	1	1 - 11 1/2NPTF	96.0	45.0	36
101NX-20-16	25	-16	25.4	1	1 1/4 - 11 1/2NPTF	97.0	46.0	46

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

115NX – SAE Flange Head Standard Series DIN 20 078 R



NX Series

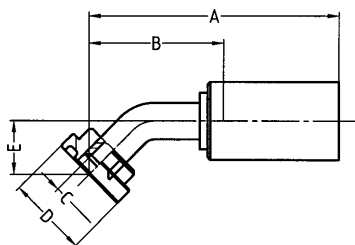
Part No. #	DN size mm inch				A mm	B mm	C mm	D mm
								
115NX-8-08	12	-08	12.7	1/2	87.0	44	9.0	30.2
115NX-12-10	16	-10	15.9	5/8	95.5	44	12.0	38.1
115NX-12-12	20	-12	19.0	3/4	99.5	48	14.8	38.1
115NX-16-16	25	-16	25.4	1	106.0	55	19.0	44.5
115NX-20-20	32	-20	31.8	1 1/4	117.0	56	25.5	50.8

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

117NX – SAE Flange Head 45° Elbow

Standard Series

DIN 20 078 R



NX Series

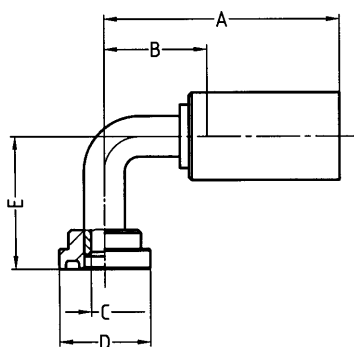
Part No. #	DN size		mm inch		A mm	B mm	C mm	D mm	E mm
117NX-8-08	12	-08	12.7	1/2	95.0	52.5	9.0	30.2	20
117NX-12-10	16	-10	15.9	5/8	113.5	62.0	12.0	38.1	24
117NX-12-12	20	-12	19.0	3/4	128.5	77.0	14.8	38.1	30
117NX-16-16	25	-16	25.4	1	125.0	74.0	19.0	44.5	32
117NX-20-20	32	-20	31.8	1 1/4	174.0	113.0	25.5	50.8	37

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

119NX – SAE Flange Head 90° Elbow

Standard Series

DIN 20 078 R

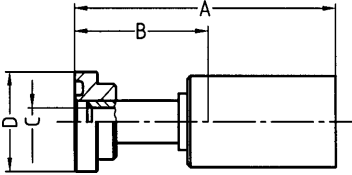


NX Series

Part No. #	DN size		mm inch		A mm	B mm	C mm	D mm	E mm
119NX-8-08	12	-08	12.7	1/2	78.0	35.0	9.0	30.2	44
119NX-12-10	16	-10	15.9	5/8	98.5	47.0	12.0	38.1	54
119NX-12-12	20	-12	19.0	3/4	106.5	55.0	14.8	38.1	63
119NX-16-16	25	-16	25.4	1	116.0	65.0	19.0	44.5	69
119NX-20-20	32	-20	31.8	1 1/4	165.0	104.0	25.5	50.8	82

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

16ANX – SAE Flange Head Heavy Series DIN 20 078 S

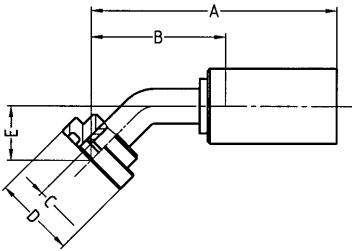


NX Series

Part No. #	DN size mm inch				A mm	B mm	C mm	D mm
16ANX-8-08	12	-08	12.7	1/2	88.0	45.0	9.0	31.7
16ANX-12-10	16	-10	15.9	5/8	103.0	51.5	12.0	41.3
16ANX-12-12	20	-12	19.0	3/4	103.5	52.0	14.8	41.3
16ANX-16-16	25	-16	25.4	1	113.0	62.0	19.0	47.6
16ANX-20-20	32	-20	31.8	1 1/4	126.0	65.0	25.5	54.0

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

16FNX – SAE Flange Head 45° Elbow Heavy Series DIN 20 078 S



NX Series

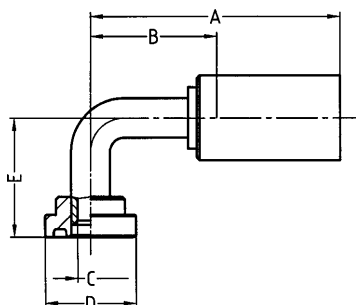
Part No. #	DN size mm inch				A mm	B mm	C mm	D mm	E mm
16FNX-8-08	12	-08	12.7	1/2	95.0	52.0	9.0	31.7	21
16FNX-12-10	16	-10	15.9	5/8	117.5	66.0	12.0	41.3	28
16FNX-12-12	20	-12	19.0	3/4	130.5	79.0	14.8	41.3	32
16FNX-16-16	25	-16	25.4	1	130.0	79.0	19.0	47.6	37
16FNX-20-20	32	-20	31.8	1 1/4	180.0	119.0	25.5	54.0	44

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

16NNX – SAE Flange Head 90° Elbow

Heavy Series

DIN 20 078 S



NX Series

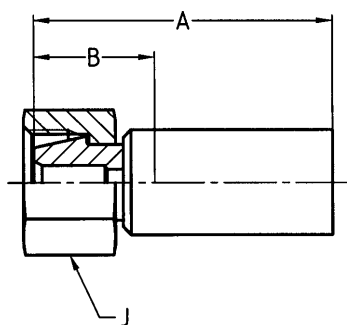
Part No. #	DN size		mm inch		A mm	B mm	C mm	D mm	E mm
16NNX-8-08	12	-08	12.7	1/2	87.0	44	9.0	31.7	41
16NNX-12-10	16	-10	15.9	5/8	104.5	53	12.0	41.3	54
16NNX-12-12	20	-12	19.0	3/4	116.5	65	14.8	41.3	63
16NNX-16-16	25	-16	25.4	1	116.0	65	19.0	47.6	75
16NNX-20-20	32	-20	31.8	1 1/4	165.0	104	25.5	54.0	91

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1F4NX – 24° Sealing Cone

French Gas Series

Metric Swivel Nut



NX Series

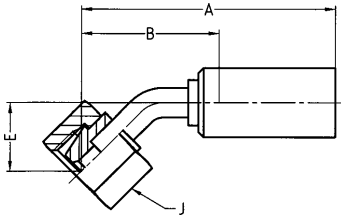
Part No. #	DN size		mm inch		Connection Type		A mm	B mm	J mm
					Thread Size	Tube OD			
1F4NX-13-04	6	-04	6.4	1/4	M20x1.5	13	59.8	28.0	24
1F4NX-13-05	8	-05	7.9	5/16	M20x1.5	13	57.0	23.0	24
1F4NX-17-05	8	-05	7.9	5/16	M24x1.5	17	60.5	26.5	30
1F4NX-13-06	10	-06	9.5	3/8	M20x1.5	13	64.0	23.5	24
1F4NX-17-06	10	-06	9.5	3/8	M24x1.5	17	67.5	27.0	30
1F4NX-17-08	12	-08	12.7	1/2	M24x1.5	17	70.5	27.5	30
1F4NX-21-08	12	-08	12.7	1/2	M30x1.5	21	69.5	26.5	36
1F4NX-21-10	16	-10	15.9	5/8	M30x1.5	21	79.5	28.0	36
1F4NX-27-12	20	-12	19.0	3/4	M36x1.5	27	81.0	30.0	42
1F4NX-33-16	25	-16	25.4	1	M45x1.5	33	83.0	32.0	55

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1F1NX – 24° Sealing Cone 45° Elbow

French Gas Series

Metric Swivel Nut



NX Series

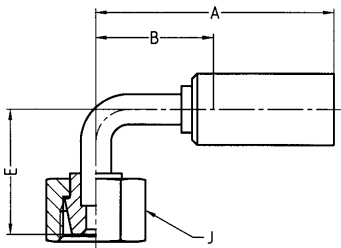
Part No. #	DN size		mm inch		Connection Type		A mm	B mm	E mm	J mm
	mm	inch	Thread Size	Tube OD						
1F1NX-13-04	6	-04	6.4	1/4	M20x1.5	13	66.8	35	18	24
1F1NX-13-05	8	-05	7.9	5/16	M20x1.5	13	74.0	40	20	24
1F1NX-17-05	8	-05	7.9	5/16	M24x1.5	17	74.0	40	21	30
1F1NX-13-06	10	-06	9.5	3/8	M20x1.5	13	83.5	43	20	24
1F1NX-17-06	10	-06	9.5	3/8	M24x1.5	17	83.5	43	21	30
1F1NX-17-08	12	-08	12.7	1/2	M24x1.5	17	94.0	51	22	30
1F1NX-21-08	12	-08	12.7	1/2	M30x1.5	21	94.0	51	24	36
1F1NX-21-10	16	-10	15.9	5/8	M30x1.5	21	105.5	54	29	36
1F1NX-27-12	20	-12	19.0	3/4	M36x1.5	27	121.5	70	33	42
1F1NX-33-16	25	-16	25.4	1	M45x1.5	33	121.0	70	36	55

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1F2NX – 24° Sealing Cone 90° Elbow

French Gas Series

Metric Swivel Nut

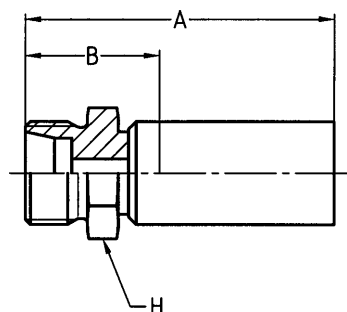


NX Series

Part No. #	DN size		mm inch		Connection Type		A mm	B mm	E mm	J mm
	mm	inch	Thread Size	Tube OD						
1F2NX-13-04	6	-04	6.4	1/4	M20x1.5	13	59.8	28	31	24
1F2NX-13-05	8	-05	7.9	5/16	M20x1.5	13	67.0	33	35	24
1F2NX-17-05	8	-05	7.9	5/16	M24x1.5	17	67.0	33	35	30
1F2NX-13-06	10	-06	9.5	3/8	M20x1.5	13	76.5	36	40	24
1F2NX-17-06	10	-06	9.5	3/8	M24x1.5	17	76.5	36	41	30
1F2NX-17-08	12	-08	12.7	1/2	M24x1.5	17	85.0	42	45	30
1F2NX-21-08	12	-08	12.7	1/2	M30x1.5	21	85.0	42	49	36
1F2NX-21-10	16	-10	15.9	5/8	M30x1.5	21	101.5	50	54	36
1F2NX-27-12	20	-12	19.0	3/4	M36x1.5	27	107.5	56	67	42
1F2NX-33-16	25	-16	25.4	1	M45x1.5	33	116.0	65	74	55

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1FGNX – Metric Male 24° Flare French Gas Series



NX Series

Part No. #	DN size				Connection Type		A mm	B mm	J mm
	mm	inch	mm	inch	Thread Size	Tube OD			
1FGNX-13-04	6	-04	6.4	1/4	M20x1.5	13	62.8	31.0	22
1FGNX-13-05	8	-05	7.9	5/16	M20x1.5	13	60.0	26.0	22
1FGNX-17-05	8	-05	7.9	5/16	M24x1.5	17	66.0	32.0	24
1FGNX-13-06	10	-06	9.5	3/8	M20x1.5	13	69.0	28.5	22
1FGNX-17-06	10	-06	9.5	3/8	M24x1.5	17	73.0	32.5	24
1FGNX-17-08	12	-08	12.7	1/2	M24x1.5	17	76.0	33.0	24
1FGNX-21-08	12	-08	12.7	1/2	M30x1.5	21	76.0	33.0	30
1FGNX-21-10	16	-10	15.9	5/8	M30x1.5	21	86.0	34.5	30
1FGNX-27-12	20	-12	19.0	3/4	M36x1.5	27	86.0	35.0	36
1FGNX-33-16	25	-16	25.4	1	M45x1.5	33	91.0	40.0	46

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

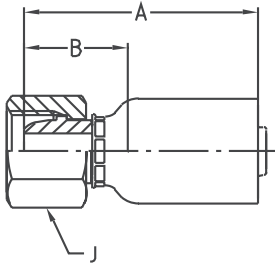


1C3NX – Sealing Head

Light Series

Metric Swivel Nut

DIN 20 078 A



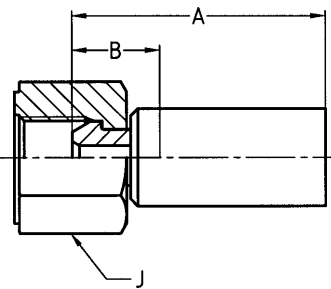
NX Series

Part No. #	Part No. #	DN size mm inch				Connection Type				
						Thread Size	Tube OD	A mm	B mm	J mm
1C3NX-8-04	1C3NX-8-04 C2W	6	-04	6.4	1/4	M14x1.5	8	46.0	18.0	17
1C3NX-10-04	1C3NX-10-04 C2W	6	-04	6.4	1/4	M16x1.5	10	46.0	18.0	19
1C3NX-10-05	1C3NX-10-05 C2W	8	-05	7.9	5/16	M16x1.5	10	46.0	18.0	19
1C3NX-10-06	1C3NX-10-06 C2W	10	-06	9.5	3/8	M16x1.5	10	49.0	19.5	22
1C3NX-12-06	1C3NX-12-06 C2W	10	-06	9.5	3/8	M18x1.5	12	48.0	19.0	22
1C3NX-12-08	1C3NX-12-08 C2W	12	-08	12.7	1/2	M18x1.5	12	51.5	20.0	24
1C3NX-15-08	1C3NX-15-08 C2W	12	-08	12.7	1/2	M22x1.5	15	51.0	20.0	27

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, C2W includes stainless steel nipple (material 1.4301)

1U0NX – Sealing Head (60°)

BSP Swivel Nut



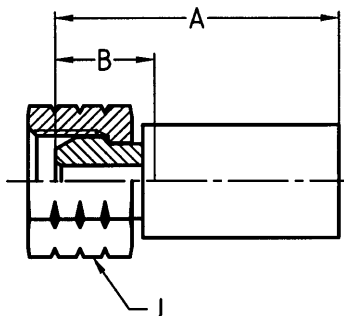
NX Series

Part No. #	Part No. #	DN size mm inch				Connection Type			
						Thread Size	A mm	B mm	J mm
1U0NX-4-04	1U0NX-4-04 C2W	6	-04	6.4	1/4	G 1/4	44.5	16.5	17
1U0NX-6-04	1U0NX-6-04 C2W	6	-04	6.4	1/4				
1U0NX-6-05	1U0NX-6-05 C2W	8	-05	7.9	5/16	G 3/8	45.0	17.0	19
1U0NX-6-06	1U0NX-6-06 C2W	10	-06	9.5	3/8	G 3/8	48.0	18.5	22
1U0NX-8-06	1U0NX-8-06 C2W	10	-06	9.5	3/8	G 1/2	48.0	19.0	27
1U0NX-8-08	1U0NX-8-08 C2W	12	-08	12.7	1/2	G 1/2	52.5	21.0	27
1U0NX-12-10	1U0NX-12-10 C2W	16	-10	15.9	5/8	G 3/4	50.0	19.0	32
1U0NX-12-12	1U0NX-12-12 C2W	20	-12	19.0	3/4	G 3/4	56.0	21.0	32
1U0NX-16-12	1U0NX-16-12 C2W	20	-12	19.0	3/4	G 1	56.0	21.5	41

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, C2W includes stainless steel nipple (material 1.4301)

107NX – 60° Sealing Cone NPSM Swivel Nut

NX Series

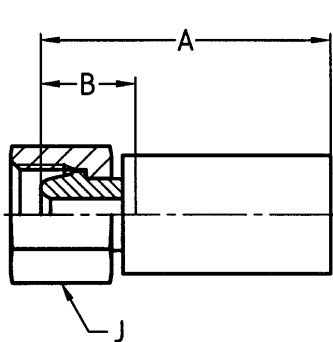


Part No. #	Part No. #	DN size mm inch				Connection Type Thread Size	A mm	B mm	J mm
		○				⌘			⬡
107NX-4-04	107NX-4-04 C2W	6	-04	6.4	1/4	1/4 - 18NPSM	46.5	18.5	19
107NX-6-05	107NX-6-05 C2W	8	-05	7.9	5/16	3/8 - 18NPSM	47.7	19.7	22
107NX-6-06	107NX-6-06 C2W	10	-06	9.5	3/8	3/8 - 18NPSM	49.7	20.7	22
107NX-8-08	107NX-8-08 C2W	12	-08	12.7	1/2	1/2 - 14NPSM	50.4	19.4	27
107NX-12-10	107NX-12-10 C2W	16	-10	15.9	5/8	3/4 - 14NPSM	52.6	21.6	32
107NX-12-12	107NX-12-12 C2W	20	-12	19.0	3/4	3/4 - 14NPSM	58.6	23.6	32

Material: Steel, surface protection according to DIN 50 961 Fe/Zn,
C2W includes stainless steel nipple (material 1.4301)



1C3PX – Sealing Head Light Series – Metric Swivel Nut – DIN 20 078 A

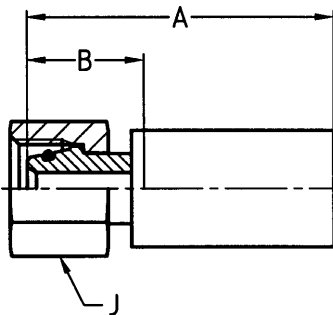


PX Series

Part No. #	Part No. #	DN size mm inch				Connection Type			A mm	B mm	J mm
						Thread Size	Tube OD				
1C3PX-6-02	1C3PX-6-02 C2W	3	-02	3.2	1/8	M12x1.5	6	32.0	16.0	14	
1C3PX-6-03	1C3PX-6-03 C2W	5	-03	4.8	3/16	M12x1.5	6	43.0	18.0	14	
1C3PX-8-03	1C3PX-8-03 C2W	5	-03	4.8	3/16	M14x1.5	8	43.0	17.5	17	
1C3PX-10-03	1C3PX-10-03 C2W	5	-03	4.8	3/16	M16x1.5	10	43.0	17.5	19	
1C3PX-8-04	1C3PX-8-04 C2W	6	-04	6.4	1/4	M14x1.5	8	46.0	18.0	17	
1C3PX-10-04	1C3PX-10-04 C2W	6	-04	6.4	1/4	M16x1.5	10	46.0	18.0	19	
1C3PX-10-05	1C3PX-10-05 C2W	8	-05	7.9	5/16	M16x1.5	10	46.0	18.0	19	
1C3PX-10-06	1C3PX-10-06 C2W	10	-06	9.5	3/8	M16x1.5	10	49.0	19.5	22	
1C3PX-12-06	1C3PX-12-06 C2W	10	-06	9.5	3/8	M18x1.5	12	48.0	19.0	22	
1C3PX-12-08	1C3PX-12-08 C2W	12	-08	12.7	1/2	M18x1.5	12	51.5	20.0	24	
1C3PX-15-08	1C3PX-15-08 C2W	12	-08	12.7	1/2	M22x1.5	15	51.0	20.0	27	

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, C2W includes stainless steel nipple (material 1.4301)

1CAPX – 24° Sealing Cone / O Ring Light Series – Metric Swivel Nut – DIN 20 078 N



PX Series

Part No. #	DN size mm inch				Connection Type			A mm	B mm	J mm
					Thread Size	Tube OD				
1CAPX-6-03	5	-03	4.8	3/16	M12x1.5	6	45.0	20.0	14	
1CAPX-6-04	6	-04	6.4	1/4	M12x1.5	6	47.5	19.5	17	
1CAPX-8-04	6	-04	6.4	1/4	M14x1.5	8	51.0	23.0	17	
1CAPX-10-04	6	-04	6.4	1/4	M16x1.5	10	50.0	22.0	19	
1CAPX-10-05	8	-05	7.9	5/16	M16x1.5	10	50.0	22.0	19	
1CAPX-12-05	8	-05	7.9	5/16	M18x1.5	12	49.5	21.5	22	
1CAPX-10-06	10	-06	9.5	3/8	M16x1.5	10	51.0	21.5	22	
1CAPX-12-06	10	-06	9.5	3/8	M18x1.5	12	52.0	23.0	22	
1CAPX-15-08	12	-08	12.7	1/2	M22x1.5	15	59.0	28.0	27	
1CAPX-18-10	16	-10	15.9	5/8	M26x1.5	18	56.0	25.0	32	
1CAPX-22-12	20	-12	19.0	3/4	M30x2	22	61.5	27.0	36	
1CAPX-28-16	25	-16	25.4	1	M36x2	28	63.5	29.0	41	

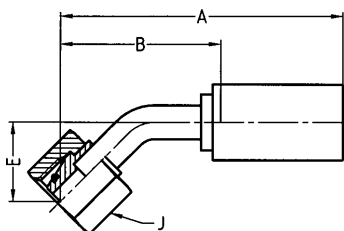
Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1CEPX – 24° Sealing Cone / O Ring 45° Elbow

Light Series

Metric Swivel Nut

DIN 20 078 N



PX Series

Part No. #	DN size mm inch				Connection Type		A mm	B mm	E mm	J mm
					Thread Size 	Tube OD 				
1CEPX-6-03	5	-03	4.8	3/16	M12x1.5	6.0	57.5	32	17	14
1CEPX-6-04	6	-04	6.4	1/4	M12x1.5	6.0	71.5	43	23	17
1CEPX-8-04	6	-04	6.4	1/4	M14x1.5	8.0	71.5	43	23	17
1CEPX-10-05	8	-05	7.9	5/16	M16x1.5	10.0	71.5	43	20	19
1CEPX-10-06	10	-06	9.5	3/8	M16x1.5	10.0	69.5	40	18	19
1CEPX-12-06	10	-06	9.5	3/8	M18x1.5	12.0	69.5	40	18	22
1CEPX-15-08	12	-08	12.7	1/2	M22x1.5	15.0	82.5	51	21	27
1CEPX-18-10	16	-10	15.9	5/8	M26x1.5	18.0	96.0	65	27	32
1CEPX-22-12	20	-12	19.0	3/4	M30x2	22.0	114.0	79	32	36
1CEPX-28-16	25	-16	25.4	1	M36x2	28.0	112.0	77	35	41

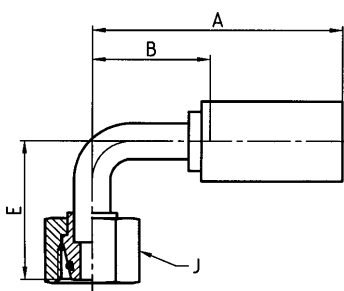
Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1CFPX – 24° Sealing Cone / O Ring 90° Elbow

Light Series

Metric Swivel Nut

DIN 20 078 N

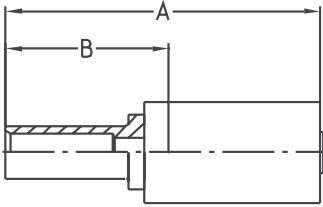


PX Series

Part No. #	DN size mm inch				Connection Type		A mm	B mm	E mm	J mm
					Thread Size 	Tube OD 				
1CFPX-6-03	5	-03	4.8	3/16	M12x1.5	6.0	47.5	22	26	14
1CFPX-6-04	6	-04	6.4	3/8	M12x1.5	6.0	58.5	30	33	17
1CFPX-8-04	6	-04	6.4	1/4	M14x1.5	8.0	58.5	30	33	17
1CFPX-10-05	8	-05	7.9	5/16	M16x1.5	10.0	58.5	30	33	19
1CFPX-10-06	10	-06	9.5	3/8	M16x1.5	10.0	59.5	30	35	19
1CFPX-12-06	10	-06	9.5	3/8	M18x1.5	12.0	59.5	30	35	22
1CFPX-15-08	12	-08	12.7	1/2	M22x1.5	15.0	73.5	42	42	27
1CFPX-18-10	16	-10	15.9	5/8	M26x1.5	18.0	84.0	53	52	32
1CFPX-22-12	20	-12	19.0	3/4	M30x2	22.0	100.0	65	62	36
1CFPX-28-16	25	-16	25.4	1	M36x2	28.0	100.0	65	72	41

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

11DPX – Metric Standpipe Light Series



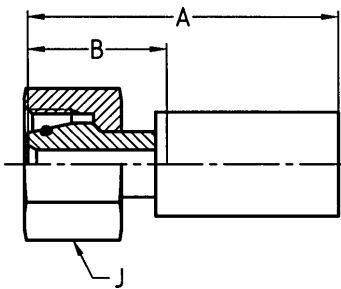
PX Series

Part No. #	DN size		mm		inch		Tube OD	A mm	B mm
	mm	inch	mm	inch	mm	inch			
11DPX-6-03	5	-03	4.8	3/16	6.0	55	26.5		
11DPX-8-04	6	-04	6.4	1/4	8.0	58	29.5		
11DPX-10-05	8	-05	7.9	5/16	10.0	59	30.5		
11DPX-10-06	10	-06	9.5	3/8	10.0	79	31.5		
11DPX-12-06	10	-06	9.5	3/8	12.0	79	31.5		
11DPX-15-08	12	-08	12.7	1/2	15.0	65	33.5		
11DPX-18-10	16	-10	15.9	5/8	18.0	66	35.0		
11DPX-22-12	20	-12	19.0	3/4	22.0	72	37.0		
11DPX-28-16	25	-16	25.4	1	28.0	74	39.0		

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Not recommended for new constructions. Please refer to end connections C3 or CA.

1C9PX – 24° Sealing Cone / O Ring Heavy Series Metric Swivel Nut DIN 20 078 P



PX Series

Part No. #	DN size		mm		inch		Connection Type		
	mm	inch	mm	inch	Thread Size	Tube OD	A mm	B mm	J mm
1C9PX-6-03	5	-03	4.8	3/16	M14x1.5	6	46.0	21.0	17
1C9PX-8-03	5	-03	4.8	3/16	M16x1.5	8	47.0	22.0	19
1C9PX-10-04	6	-04	6.4	1/4	M18x1.5	10	55.0	27.0	22
1C9PX-12-05	8	-05	7.9	5/16	M20x1.5	12	56.0	28.0	24
1C9PX-12-06	10	-06	9.5	3/8	M20x1.5	12	53.5	24.5	24
1C9PX-14-06	10	-06	9.5	3/8	M22x1.5	14	58.5	29.5	27
1C9PX-16-08	12	-08	12.7	1/2	M24x1.5	16	64.5	33.5	30
1C9PX-20-10	16	-10	15.9	5/8	M30x2	20	68.0	37.0	36
1C9PX-25-12	20	-12	19.0	3/4	M36x2	25	76.5	42.0	46
1C9PX-30-16	25	-16	25.4	1	M42x2	30	79.0	44.5	50

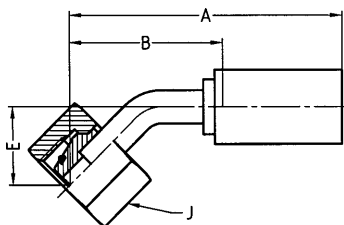
Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

10CPX – 24° Sealing Cone / O Ring 45° Elbow

Heavy Series

Metric Swivel Nut

DIN 20 078 P



PX Series

Part No. #	DN size mm inch				Connection Type		A mm	B mm	E mm	J mm
	mm	inch	Thread Size	Tube OD						
10CPX-8-03	5	-03	4.8	3/16	M16x1.5	8	60.5	35	20	19
10CPX-10-04	6	-04	6.4	1/4	M18x1.5	10	73.5	45	24	22
10CPX-12-05	8	-05	7.9	5/16	M20x1.5	12	70.5	42	20	24
10CPX-14-06	10	-06	9.5	3/8	M22x1.5	14	69.5	40	19	27
10CPX-16-08	12	-08	12.7	1/2	M24x1.5	16	84.5	53	23	30
10CPX-20-10	16	-10	15.9	5/8	M30x2	20	99.0	68	29	36

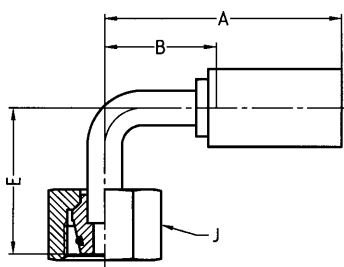
Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

11CPX – 24° Sealing Cone / O Ring 90° Elbow

Heavy Series

Metric Swivel Nut

DIN 20 078 P



PX Series

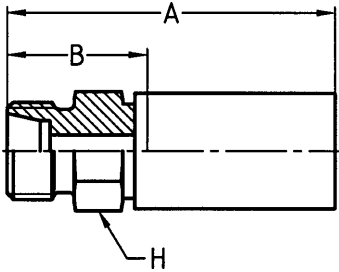
Part No. #	DN size mm inch				Connection Type		A mm	B mm	E mm	J mm
	mm	inch	Thread Size	Tube OD						
11CPX-8-03	5	-03	4.8	3/16	M16x1.5	8	47.5	22	28	19
11CPX-6-04	6	-04	6.4	1/4	M14x1.5	6	58.5	30	29	17
11CPX-10-04	6	-04	6.4	1/4	M18x1.5	10	58.5	30	36	22
11CPX-12-05	8	-05	7.9	5/16	M20x1.5	12	58.5	30	36	24
11CPX-14-06	10	-06	9.5	3/8	M22x1.5	14	59.5	30	36	27
11CPX-16-08	12	-08	12.7	1/2	M24x1.5	16	73.5	42	44	30
11CPX-20-10	16	-10	15.9	5/8	M30x2	20	84.0	53	61	36

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1D0PX – Metric Male 24° Flare

Light Series

DIN 20 078 D



PX Series

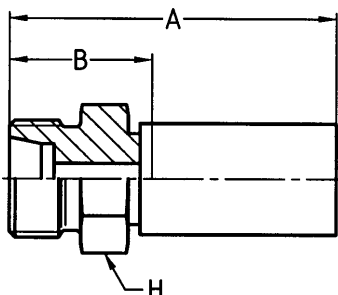
Part No. #	DN size				Connection Type		A mm	B mm	H mm
	mm	inch	mm	inch	Thread Size	Tube OD			
1D0PX-6-03	5	-03	4.8	3/16	M12x1.5	6	48.0	22.5	12
1D0PX-6-04	6	-04	6.4	1/4	M12x1.5	6	51.0	22.5	14
1D0PX-8-04	6	-04	6.4	1/4	M14x1.5	8	51.0	22.5	14
1D0PX-8-05	8	-05	7.9	5/16	M14x1.5	8	53.0	24.5	17
1D0PX-10-05	8	-05	7.9	5/16	M16x1.5	10	54.0	25.5	17
1D0PX-12-05	8	-05	7.9	5/16	M18x1.5	12	54.0	25.5	19
1D0PX-12-06	10	-06	9.5	3/8	M18x1.5	12	56.0	26.5	19
1D0PX-10-06	10	-06	9.5	3/8	M16x1.5	10	56.5	27.0	17
1D0PX-15-06	10	-06	9.5	3/8	M22x1.5	15	57.0	27.5	22
1D0PX-15-08	12	-08	12.7	1/2	M22x1.5	15	59.0	27.5	22
1D0PX-18-10	16	-10	15.9	5/8	M26x1.5	18	59.0	28.0	27
1D0PX-22-12	20	-12	19.0	3/4	M30x2	22	67.0	32.0	30
1D0PX-28-16	25	-16	25.4	1	M36x2	28	67.0	32.0	36

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1D2PX – Metric Male 24° Flare

Heavy Series

DIN 20 078 E



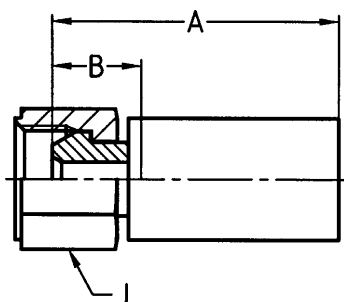
PX Series

Part No. #	DN size				Connection Type		A mm	B mm	H mm
	mm	inch	mm	inch	Thread Size	Tube OD			
1D2PX-8-03	5	-03	4.8	3/16	M16x1.5	8	50	24.5	17
1D2PX-8-04	6	-04	6.4	1/4	M16x1.5	8	56	27.5	17
1D2PX-10-04	6	-04	6.4	1/4	M18x1.5	10	55	26.5	19
1D2PX-12-05	8	-05	7.9	5/16	M20x1.5	12	55	26.5	22
1D2PX-14-05	8	-05	7.9	5/16	M22x1.5	14	57	28.5	22
1D2PX-14-06	10	-06	9.5	3/8	M22x1.5	14	59	29.5	22
1D2PX-12-06	10	-06	9.5	3/8	M22x1.5	12	57	27.5	22
1D2PX-16-08	12	-08	12.7	1/2	M24x1.5	16	61	29.5	24
1D2PX-20-10	16	-10	15.9	5/8	M30x2	20	65	34.0	30
1D2PX-25-12	20	-12	19.0	3/4	M36x2	25	71	36.0	36
1D2PX-30-16	25	-16	25.4	1	M42x2	30	73	38.0	46

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

192PX – Sealing Head (60°) 90° Elbow

BSP Swivel Nut

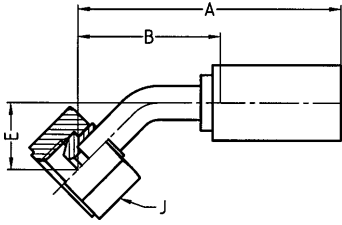


PX Series



Part No. #	DN size				Connection Type		A mm	B mm	J mm
	mm	inch	mm	inch	Thread Size	Tube OD			
192PX-2-02	3	-02	3.2	1/8	G 1/8	26.0	10.5	12	
192PX-2-03	5	-03	4.8	3/16	G 1/8	41.0	15.5	17	
192PX-4-03	5	-03	4.8	3/16	G 1/4	41.5	16.0	17	
192PX-4-04	6	-04	6.4	1/4	G 1/4	44.5	16.5	17	
192PX-6-05	8	-05	7.9	5/16	G 3/8	45.0	17.0	19	
192PX-6-06	10	-06	9.5	3/8	G 3/8	48.0	18.5	22	
192PX-8-06	10	-06	9.5	3/8	G 1/2	48.0	19.0	27	
192PX-8-08	12	-08	12.7	1/2	G 1/2	52.5	21.0	27	
192PX-12-10	16	-10	15.9	5/8	G 3/4	50.0	19.0	32	
192PX-12-12	20	-12	19.0	3/4	G 3/4	56.0	21.0	32	
192PX-16-12	20	-12	19.0	3/4	G 1	56.0	21.5	41	
192PX-16-16	25	-16	25.4	1	G 1	57.0	22.0	41	
192PX-20-16	25	-16	25.4	1	G 1 1/4	58.0	23.5	50	

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1B1PX – Sealing Head (60°) 45° Elbow BSP Swivel Nut

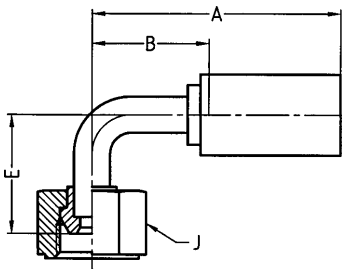


PX Series



Part No. #	DN size mm inch				Connection Type	A mm	B mm	E mm	J mm
					Thread Size 				
1B1PX-4-03	5	-03	4.8	3/16	G 1/4	57.5	32	17	17
1B1PX-4-04	6	-04	6.4	1/4	G 1/4	69.5	41	21	17
1B1PX-6-05	8	-05	7.9	5/16	G 3/8	67.5	39	17	22
1B1PX-6-06	10	-06	9.5	3/8	G 3/8	65.5	36	14	22
1B1PX-8-06	10	-06	9.5	3/8	G 1/2	66.5	37	15	27
1B1PX-8-08	12	-08	12.7	1/2	G 1/2	85.5	54	18	27
1B1PX-12-10	16	-10	15.9	5/8	G 3/4	99.0	68	26	32
1B1PX-12-12	20	-12	19.0	3/4	G 3/4	117.0	82	30	32
1B1PX-16-16	25	-16	25.4	1	G 1	120.0	85	43	41
1B1PX-20-16	25	-16	25.4	1	G 1 1/4	116.0	81	34	50

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1B2PX – Sealing Head (60°) 90° Elbow BSP Swivel Nut

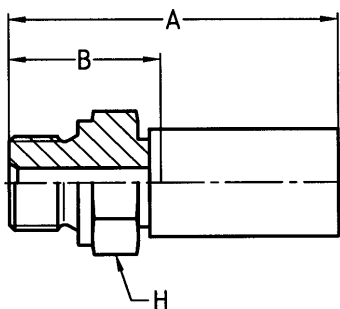


PX Series



Part No. #	DN size mm inch				Connection Type	A mm	B mm	E mm	J mm
					Thread Size 				
1B2PX-4-03	5	-03	4.8	3/16	G 1/4	47.5	22	24	17
1B2PX-4-04	6	-04	6.4	1/4	G 1/4	58.5	30	30	17
1B2PX-6-05	8	-05	7.9	5/16	G 3/8	58.5	30	28	22
1B2PX-6-06	10	-06	9.5	3/8	G 3/8	59.5	30	30	22
1B2PX-8-06	10	-06	9.5	3/8	G 1/2	59.5	30	31	27
1B2PX-8-08	12	-08	12.7	1/2	G 1/2	73.5	42	38	27
1B2PX-12-10	16	-10	15.9	5/8	G 3/4	84.0	53	50	32
1B2PX-12-12	20	-12	19.0	3/4	G 3/4	100.0	65	60	32
1B2PX-20-16	25	-16	25.4	1	G 1 1/4	100.0	65	70	50

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1D9PX – BSP Male Din 3852 Shape A

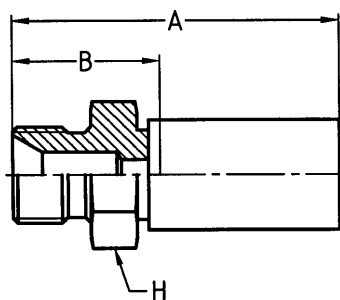


PX Series



Part No. #	DN size mm inch				Connection Type	A mm	B mm	J mm
								
1D9PX-2-02	3	-02	3.2	1/8	G 1/8	38.0	21.0	14
1D9PX-2-03	5	-03	4.8	3/16	G 1/8	47.5	22.0	14
1D9PX-4-03	5	-03	4.8	3/16	G 1/4	54.0	28.5	19
1D9PX-4-04	6	-04	6.4	1/4	G 1/4	57.0	28.5	19
1D9PX-6-05	8	-05	7.9	5/16	G 3/8	57.5	29.0	22
1D9PX-6-06	10	-06	9.5	3/8	G 3/8	59.5	30.0	22
1D9PX-8-06	10	-06	9.5	3/8	G 1/2	62.0	32.5	27
1D9PX-8-08	12	-08	12.7	1/2	G 1/2	64.0	32.5	27
1D9PX-12-10	16	-10	15.9	5/8	G 3/4	66.0	35.0	32
1D9PX-12-12	20	-12	19.0	3/4	G 3/4	72.0	37.0	32
1D9PX-16-12	20	-12	19.0	3/4	G 1	74.0	39.0	41
1D9PX-20-16	25	-16	25.4	1	G 1 1/4	76.0	41.0	50

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

13BPX – BSP Male - 60° Flare

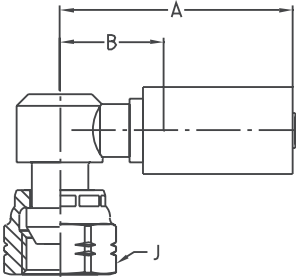


PX Series



Part No. #	DN size mm inch				Connection Type	A mm	B mm	J mm
								
13BPX-2-03	5	-03	4.8	3/16	G 1/8	47.5	22.0	14
13BPX-4-03	5	-03	4.8	3/16	G 1/4	51.0	25.5	17
13BPX-4-04	6	-04	6.4	1/4	G 1/4	54.0	25.5	17
13BPX-6-05	8	-05	7.9	5/16	G 3/8	56.5	28.0	22
13BPX-6-06	10	-06	9.5	3/8	G 3/8	58.5	29.0	22
13BPX-8-06	10	-06	9.5	3/8	G 1/2	63.5	34.0	24
13BPX-8-08	12	-08	12.7	1/2	G 1/2	65.5	34.0	24
13BPX-12-10	16	-10	15.9	5/8	G 3/4	69.0	38.0	32
13BPX-12-12	20	-12	19.0	3/4	G 3/4	73.0	38.0	32
13BPX-16-12	20	-12	19.0	3/4	G 1	81.5	46.5	36
13BPX-16-16	25	-16	25.4	1	G 1	81.5	46.5	36
13BPX-20-16	25	-16	25.4	1	G 1 1/4	83.5	48.5	50

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1B4PX – BSP Swivel Female 90° Compact Elbow

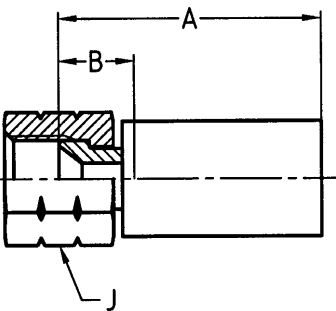


PX Series



Part No. #	DN size mm inch				Connection Type	A mm	B mm	J mm
					Thread Size 			
1B4PX-4-04	6	-04	6.4	1/4	G 1/4	47.0	18.5	19
1B4PX-6-05	8	-05	7.9	5/16	G 3/8	51.3	22.8	22
1B4PX-6-06	10	-06	9.5	3/8	G 3/8	53.3	23.8	22
1B4PX-8-08	12	-08	12.7	1/2	G 1/2	57.0	22.5	27

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

106PX – JIC - 37° Flare UNF Swivel Nut

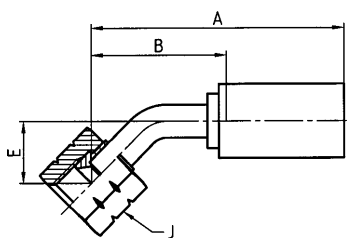


PX Series



Part No. #	DN size mm inch				Connection Type	A mm	B mm	J mm
					Thread Size 			
106PX-4-02	3	-02	3.2	1/8	7/16 - 20UNF	29.0	13.0	17
106PX-4-03	5	-03	4.8	3/16	7/16 - 20UNF	40.0	15.0	17
106PX-4-04	6	-04	6.4	1/4	7/16 - 20UNF	43.0	15.0	17
106PX-5-04	6	-04	6.4	1/4	1/2 - 20UNF	43.0	15.0	19
106PX-6-05	8	-05	7.9	5/16	9/16 - 18UNF	45.0	17.0	19
106PX-6-06	10	-06	9.5	3/8	9/16 - 18UNF	47.0	18.0	19
106PX-8-06	10	-06	9.5	3/8	3/4 - 16UNF	48.0	19.0	24
106PX-10-08	12	-08	12.7	1/2	7/8 - 20UNF	48.5	17.5	27
106PX-12-10	16	-10	15.9	5/8	1 1/16 - 12UNF	50.0	19.0	32
106PX-16-12	20	-12	19.0	3/4	1 5/16 - 12UNF	56.0	21.5	41
106PX-20-16	25	-16	25.4	1	1 5/8 - 12UNF	56.0	21.5	50

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

137PX – JIC - 37° Flare - 45° Elbow UNF Swivel Nut

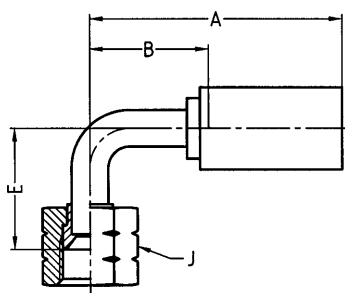


PX Series



Part No. #	DN size mm inch				Connection Type	A mm	B mm	E mm	J mm
					Thread Size 				
137PX-4-03	5	-03	4.8	3/16	7/16 - 20UNF	56.5	31	16	17
137PX-5-04	6	-04	6.4	1/4	1/2 - 20UNF	69.5	41	21	19
137PX-6-05	8	-05	7.9	5/16	9/16 - 18UNF	66.5	38	16	19
137PX-8-06	10	-06	9.5	3/8	3/4 - 16UNF	66.5	37	15	24
137PX-10-08	12	-08	12.7	1/2	7/8 - 14UNF	80.5	49	19	27
137PX-12-10	16	-10	15.9	5/8	1 1/16 - 12UNF	96.0	65	27	32
137PX-16-12	20	-12	19.0	3/4	1 5/16 - 12UNF	114.0	79	32	41
137PX-20-16	25	-16	25.4	1	1 5/8 - 12UNF	113.0	78	36	50

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

139PX – JIC - 37° Flare - 90° Elbow UNF Swivel Nut

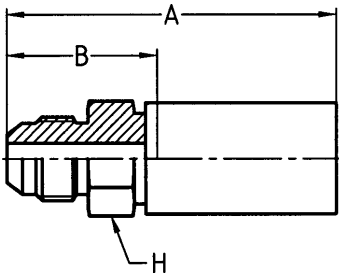


PX Series



Part No. #	DN size mm inch				Connection Type	A mm	B mm	E mm	J mm
					Thread Size 				
139PX-4-03	5	-03	4.8	3/16	7/16 - 20UNF	47.5	22	24	17
139PX-5-04	6	-04	6.4	1/4	1/2 - 20UNF	58.5	30	31	19
139PX-6-05	8	-05	7.9	5/16	9/16 - 18UNF	58.5	30	28	19
139PX-8-06	10	-06	9.5	3/8	3/4 - 16UNF	59.5	30	31	24
139PX-10-08	12	-08	12.7	1/2	7/8 - 14UNF	73.5	42	39	27
139PX-12-10	16	-10	15.9	5/8	1 1/16 - 12UNF	84.0	53	52	32
139PX-16-12	20	-12	19.0	3/4	1 5/16 - 12UNF	100.0	65	62	41
139PX-20-16	25	-16	25.4	1	1 5/8 - 12UNF	100.0	65	73	50

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

103PX – JIC Male - 37° Cone

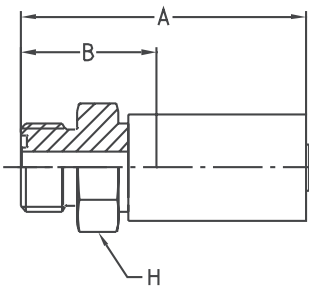


PX Series


Part No. #	DN size mm inch				Connection Type		A mm	B mm	H mm
					Thread Size				
103PX-4-03	5	-03	4.8	3/16	7/16 - 20UNF		52.0	26.5	14
103PX-5-04	6	-04	6.4	1/4	1/2 - 20UNF		57.0	28.5	14
103PX-6-04	6	-04	6.4	1/4	9/16 - 18UNF		57.0	28.5	17
103PX-6-05	8	-05	7.9	5/16	9/16 - 18UNF		57.0	28.5	17
103PX-8-06	10	-06	9.5	3/8	3/4 - 16UNF		62.0	32.5	22
103PX-10-08	12	-08	12.7	1/2	7/8 - 14UNF		69.5	38.0	24
103PX-12-10	16	-10	15.9	5/8	1 1/16 - 12UNF		71.0	40.0	30
103PX-16-12	20	-12	19.0	3/4	1 5/16 - 12UNF		76.0	41.0	36
103PX-20-16	25	-16	25.4	1	1 5/8 - 12UNF		77.5	42.5	46

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1JMPX – O-Lok® ORFS Male

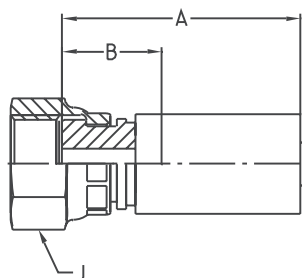


PX Series

Part No. #	DN size mm inch				Connection Type		A mm	B mm	H mm
					Thread Size	Tube OD			
1JMPX-4-04	6	-04	6.4	1/4	9/16 - 18 UNF	5/16	51.0	22.5	14
1JMPX-6-06	10	-06	9.5	3/8	11/16 - 16 UNF	3/8	56.0	26.5	17
1JMPX-8-06	10	-06	9.5	3/8	13/16 - 16 UNF	1/2	58.0	28.5	22
1JMPX-8-08	12	-08	12.7	1/2	13/16 - 16 UNF	1/2	60.0	28.5	22
1JMPX-12-12	20	-12	19.0	3/4	1 3/16 - 12 UNF	3/4	70.0	35.0	30
1JMPX-16-16	25	-16	25.4	1	1 7/16 - 12 UNF	1	70.5	35.5	36

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1JCPX – O-Lok® ORFS (short version) UNF Swivel Nut

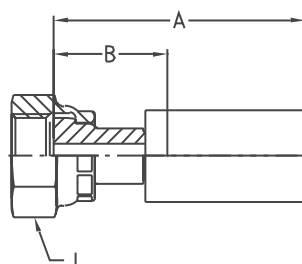


PX Series

Part No. #	DN size				Connection Type		A mm	B mm	J mm
	mm	inch	Thread Size	Tube OD					
1JCPX-4-03	5	-03	4.8	3/16	9/16 - 18 UNF	5/16	41.0	15.5	17
1JCPX-4-04	6	-04	6.4	1/4	9/16 - 18 UNF	5/16	44.0	15.5	17
1JCPX-6-04	6	-04	6.4	1/4	11/16 - 16 UNF	3/8	45.0	16.5	22
1JCPX-4-05	8	-05	7.9	5/16	9/16 - 18 UNF	5/16	44.0	15.5	17
1JCPX-6-05	8	-05	7.9	5/16	11/16 - 16 UNF	3/8	45.0	16.6	22
1JCPX-6-06	10	-06	9.5	3/8	11/16 - 16 UNF	3/8	47.0	17.5	22
1JCPX-8-06	10	-06	9.5	3/8	13/16 - 16 UNF	1/2	48.5	19.0	24
1JCPX-8-08	12	-08	12.7	1/2	13/16 - 16 UNF	1/2	50.5	19.0	24
1JCPX-12-12	20	-12	19.0	3/4	1 3/16 - 12 UNF	3/4	58.5	23.5	36
1JCPX-16-16	25	-16	25.4	1	1 7/16 - 12 UNF	1	60.0	25.0	41

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1JSPX – O-Lok® ORFS UNF Swivel Nut

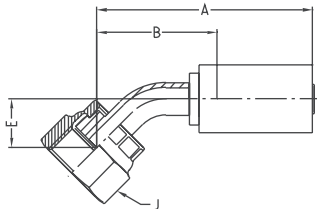


PX Series

Part No. #	DN size				Connection Type		A mm	B mm	J mm
	mm	inch	Thread Size	Tube OD					
1JSPX-4-03	5	-03	4.8	3/16	9/16 - 18 UNF	5/16	45.0	19.5	17
1JSPX-4-04	6	-04	6.4	1/4	9/16 - 18 UNF	5/16	49.5	21.0	17
1JSPX-6-04	6	-04	6.4	1/4	11/16 - 16 UNF	3/8	48.0	19.5	22
1JSPX-4-05	8	-05	7.9	5/16	9/16 - 18 UNF	5/16	49.5	21.0	17
1JSPX-6-05	8	-05	7.9	5/16	11/16 - 16 UNF	3/8	51.5	23.5	22
1JSPX-6-06	10	-06	9.5	3/8	11/16 - 16 UNF	3/8	52.5	23.0	22
1JSPX-8-06	10	-06	9.5	3/8	13/16 - 16 UNF	1/2	51.5	21.5	24
1JSPX-8-08	12	-08	12.7	1/2	13/16 - 16 UNF	1/2	54.5	23.0	24
1JSPX-12-12	20	-12	19.0	3/4	1 3/16 - 12 UNF	3/4	63.0	28.0	36
1JSPX-16-16	25	-16	25.4	1	1 7/16 - 12 UNF	1	66.5	31.5	41

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1J7PX – O-Lok® ORFS 45° Elbow UNF Swivel Nut

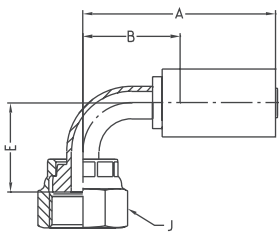


PX Series

Part No. #	DN size mm inch				Connection Type					
					Thread Size	Tube OD	A mm	B mm	E mm	J mm
1J7PX-4-03	5	-03	4,8	3/16	9/16 - 18 UNF	5/16	55,5	30	15	17
1J7PX-4-04	6	-04	6,4	1/4	9/16 - 18 UNF	5/16	63,5	35	15	17
1J7PX-6-04	6	-04	6,4	1/4	11/16 - 16 UNF	3/8	63,5	35	15	22
1J7PX-4-05	8	-05	7,9	5/16	9/16 - 18 UNF	5/16	63,5	35	15	17
1J7PX-6-05	8	-05	7,9	5/16	11/16 - 16 UNF	3/8	63,5	35	17	22
1J7PX-6-06	10	-06	9,5	3/8	11/16 - 16 UNF	3/8	66,5	37	17	22
1J7PX-8-06	10	-06	9,5	3/8	13/16 - 16 UNF	1/2	66,5	37	17	24
1J7PX-8-08	12	-08	12,7	1/2	13/16 - 16 UNF	1/2	73,5	42	17	24
1J7PX-12-12	20	-12	19,0	3/4	1 3/16 - 12 UNF	3/4	100,0	65	25	36
1J7PX-16-16	25	-16	25,4	1	1 7/16 - 12 UNF	1	108,0	73	39	41

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1J9PX – O-Lok® ORFS 90° Elbow UNF Swivel Nut

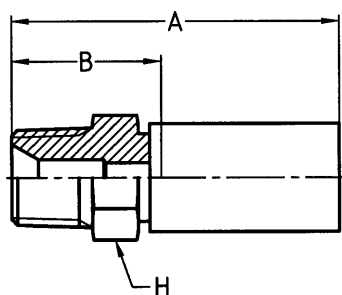


PX Series

Part No. #	DN size mm inch				Connection Type					
					Thread Size	Tube OD	A mm	B mm	E mm	J mm
1J9PX-4-03	5	-03	4,8	3/16	9/16 - 18 UNF	5/16	47,5	22	23	17
1J9PX-4-04	6	-04	6,4	1/4	9/16 - 18 UNF	5/16	58,5	30	29	17
1J9PX-6-04	6	-04	6,4	1/4	11/16 - 16 UNF	3/8	58,5	30	29	22
1J9PX-4-05	8	-05	7,9	5/16	9/16 - 18 UNF	5/16	58,5	30	27	17
1J9PX-6-05	8	-05	7,9	5/16	11/16 - 16 UNF	3/8	58,5	30	27	22
1J9PX-6-06	10	-06	9,5	3/8	11/16 - 16 UNF	3/8	59,5	30	27	22
1J9PX-8-06	10	-06	9,5	3/8	13/16 - 16 UNF	1/2	59,5	30	27	24
1J9PX-8-08	12	-08	12,7	1/2	13/16 - 16 UNF	1/2	73,5	42	32	24
1J9PX-12-12	20	-12	19,0	3/4	1 3/16 - 12 UNF	3/4	100,0	65	60	36
1J9PX-16-16	25	-16	25,4	1	1 7/16 - 12 UNF	1	100,0	65	67	41

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

101PX – NPTF Male - 60° Flare



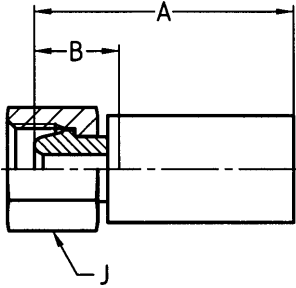
PX Series

Part No. #	DN size mm inch				Connection Type Thread Size	A mm	B mm	J mm
	○				⌋			⬡
101PX-2-03	5	-03	4.8	3/16	1/8 - 27NPTF	48	22.5	12
101PX-4-03	5	-03	4.8	3/16	1/4 - 18NPTF	52	26.5	14
101PX-4-04	6	-04	6.4	1/4	1/4 - 18NPTF	55	26.5	14
101PX-6-04	6	-04	6.4	1/4	3/8 - 18NPTF	57	28.5	19
101PX-6-05	8	-05	7.9	5/16	3/8 - 18NPTF	57	28.5	19
101PX-4-06	10	-06	9.5	3/8	1/4 - 18NPTF	57	27.5	14
101PX-6-06	10	-06	9.5	3/8	3/8 - 18NPTF	59	29.5	19
101PX-8-06	10	-06	9.5	3/8	1/2 - 14NPTF	64	34.5	22
101PX-6-08	12	-08	12.7	1/2	3/8 - 18NPTF	61	29.5	19
101PX-8-08	12	-08	12.7	1/2	1/2 - 14NPTF	66	34.5	22
101PX-12-10	16	-10	15.9	5/8	3/4 - 14NPTF	66	35.0	27
101PX-12-12	20	-12	19.0	3/4	3/4 - 14NPTF	70	35.0	27
101PX-16-12	20	-12	19.0	3/4	1 - 11 1/2NPTF	77	42.0	36
101PX-16-16	25	-16	25.4	1	1 - 11 1/2NPTF	77	42.0	36

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request



1U0PX – Sealing Head BSP Swivel Nut

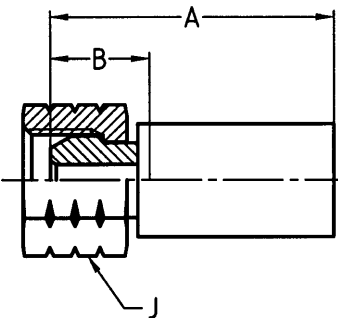


PX Series

Part No. #	Part No. #	DN size mm inch				Connection Type Thread Size	A mm	B mm	J mm
1U0PX-4-02	1U0PX-4-02 C2W	3	-02	3.2	1/8	G 1/4	35.0	19.0	17
1U0PX-4-03	1U0PX-4-03 C2W	5	-03	4.8	3/16	G 1/4	41.5	16.0	17
1U0PX-4-04	1U0PX-4-04 C2W	6	-04	6.4	1/4	G 1/4	44.5	16.5	17
1U0PX-6-03	1U0PX-6-03 C2W	5	-03	4.8	3/16	G 3/8	43.0	17.5	19
1U0PX-6-04	1U0PX-6-04 C2W	6	-04	6.4	1/4	G 3/8	46.5	18.0	19
1U0PX-6-05	1U0PX-6-05 C2W	8	-05	7.9	5/16	G 3/8	45.0	17.0	19
1U0PX-6-06	1U0PX-6-06 C2W	10	-06	9.5	3/8	G 3/8	48.0	18.5	22
1U0PX-8-06	1U0PX-8-06 C2W	10	-06	9.5	3/8	G 1/2	48.0	19.0	27
1U0PX-8-08	1U0PX-8-08 C2W	12	-08	12.7	1/2	G 1/2	52.5	21.0	27
1U0PX-12-10	1U0PX-12-10 C2W	16	-10	15.9	5/8	G 3/4	50.0	19.0	32
1U0PX-12-12	1U0PX-12-12 C2W	20	-12	19.0	3/4	G 3/4	56.0	21.0	32
1U0PX-16-12	1U0PX-16-12 C2W	20	-12	19.0	3/4	G 1	56.0	21.5	41
1U0PX-16-16	1U0PX-16-16 C2W	25	-16	25.4	1	G 1	57.0	22.0	41
1U0PX-20-16	1U0PX-20-16 C2W	25	-16	25.4	1	G 1 1/4	58.0	23.5	50

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, C2W includes stainless steel nipple (material 1.4301)

107PX – Sealing Head – 37° Cone NPSM Swivel Nut

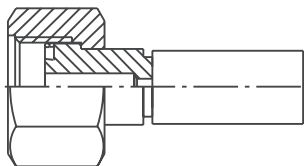


PX Series

Part No. #	Part No. #	DN size mm inch				Connection Type Thread Size	A mm	B mm	J mm
107PX-4-02	107PX-4-02 C2W	3	-02	3.2	1/8	1/4 - 18NPSM	35.7	19.7	17
107PX-4-03	107PX-4-03 C2W	5	-03	4.8	3/16	1/4 - 18NPSM	44.0	18.5	17
107PX-2-03	107PX-2-03 C2W	5	-03	4.8	3/16	1/8 - 27NPSM	46.5	21.0	17
107PX-4-04	107PX-4-04 C2W	6	-04	6.4	1/4	1/4 - 18NPSM	46.5	18.5	19
107PX-6-05	107PX-6-05 C2W	8	-05	7.9	5/16	3/8 - 18NPSM	47.7	19.7	22
107PX-6-06	107PX-6-06 C2W	10	-06	9.5	3/8	3/8 - 18NPSM	49.7	20.7	22
107PX-8-08	107PX-8-08 C2W	12	-08	12.7	1/2	1/2 - 14NPSM	50.4	19.4	27
107PX-12-10	107PX-12-10 C2W	16	-10	15.9	5/8	3/4 - 14NPSM	52.6	21.6	32
107PX-12-12	107PX-12-12 C2W	20	-12	19.0	3/4	3/4 - 14NPSM	58.6	23.6	32

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, C2W includes stainless steel nipple (material 1.4301)

1GAPX – Female Gas Joint according to NEN 176



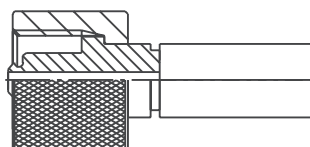
PX Series

Part No. #	DN size mm inch				Connection Type			A mm	B mm	J mm
	6	-04	6.4	1/4	Thread Size	Tube OD	J			
1GAPX-8-04BF	6	-04	6.4	1/4	W21,8 x 1/14	8	56,5	28	30	
1GAPX-8-04C	6	-04	6.4	1/4	W21,8 x 1/14	8	56,5	28	30	
1GAPX-12-04BF	6	-04	6.4	1/4	W24,32 x 1/14	12	56,5	28	32	
1GAPX-12-04C	6	-04	6.4	1/4	W24,32 x 1/14	12	56,5	28	32	

Material: BF: Brass
C: stainless steel

Only for CO₂ applications.

1GAPX – Female Gas Joint according to ISO/NFE 29650



PX Series

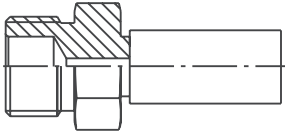
Part No. #	DN size mm inch				Connection Type			A mm	B mm	J mm
	6	-04	6.4	1/4	Thread Size	Tube OD	J			
1GAPX-8-04BF2	6	-04	6.4	1/4	121,7 x 1.814	8	66	37.5	30	
1GAPX-8-04CS	6	-04	6.4	1/4	121,7 x 1.814	8	66	37.5	30	

Material: BF2: Brass
CS: stainless steel

Only for CO₂ applications.



13BPX – BSP Male 60° Flare according to NEN 176



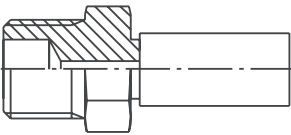
PX Series

Part No. #	DN size mm inch				Connection Type		A mm	B mm	H mm
	6	-04	6.4	1/4	Thread Size	Tube OD			
13BPX-8-04BF	6	-04	6.4	1/4	W21.8 x 1/14	8	60	31.5	24
13BPX-8-04C	6	-04	6.4	1/4	W21.8 x 1/14	8	60	31.5	24

Material: BF: Brass
C: stainless steel

Only for CO₂ applications.

13BPX – BSP Male 60° Flare according to ISO/NFE 29650



PX Series

Part No. #	DN size mm inch				Connection Type		A mm	B mm	H mm
	6	-04	6.4	1/4	Thread Size	Tube OD			
13BPX-8-04BF2	6	-04	6.4	1/4	121,7 x 1.814	8	63	34.5	24
13BPX-8-04CS	6	-04	6.4	1/4	121,7 x 1.814	8	63	34.5	24

Material: BF2: Brass
CS: stainless steel

Only for CO₂ applications.

191PX – Male BSP Taper Pipe – Rigid – Straight according to DIN



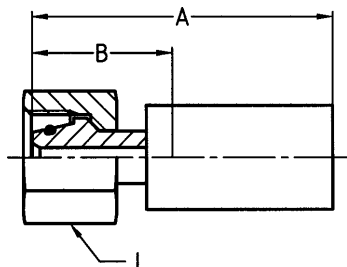
PX Series

Part No. #	DN size mm inch				Connection Type		A mm	B mm	H mm
	6	-04	6.4	1/4	Thread Size	Tube OD			
191PX-4-04BF	6	-04	6.4	1/4	R1/4	4	55	26.5	14
191PX-4-04C	6	-04	6.4	1/4	R1/4	4	55	26.5	14



Material: BF: Brass
C: stainless steel

Only for CO₂ applications.

1C9RX – 24° Sealing Cone / O-Ring Heavy Series Metric Swivel Nut DIN 20 078 P

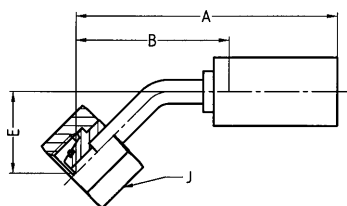


RX Series



Part No. #	DN size mm inch				Connection Type	A mm	B mm	J mm
								
1C9RX-8-04	6	-04	6.4	1/4	M16x1.5	54.5	23.5	19
1C9RX-10-04	6	-04	6.4	1/4	M18x1.5	58.0	27.0	22
1C9RX-12-05	8	-05	7.9	5/16	M20x1.5	59.0	28.0	24
1C9RX-14-06	10	-06	9.5	3/8	M22x1.5	61.5	29.5	27
1C9RX-16-08	12	-08	12.7	1/2	M24x1.5	67.5	33.5	30

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

10CRX – 24° Sealing Cone /O-Ring 45° Elbow Heavy Series Metric Swivel Nut DIN 20 078 P



RX Series

Part No. #	DN size mm inch				Connection Type	A mm	B mm	E mm	J mm
									
10CRX-10-04	6	-04	6.4	1/4	M18x1.5	76.5	45	24	22
10CRX-12-05	8	-05	7.9	5/16	M20x1.5	73.5	42	20	24
10CRX-14-06	10	-06	9.5	3/8	M22x1.5	72.5	40	19	27
10CRX-16-08	12	-08	12.7	1/2	M24x1.5	87.5	53	23	30

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

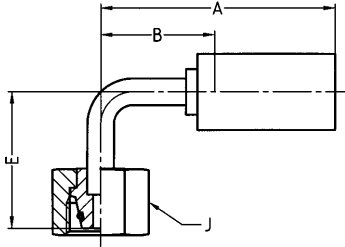


11CRX – 24° Sealing Cone / O-Ring 90° Elbow

Heavy Series

Metric Swivel Nut

DIN 20 078 P

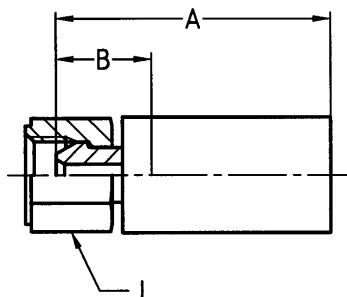


RX Series



Part No.	DN size mm inch				Connection Type	A mm	B mm	E mm	J mm
#	○				Thread Size				⬡
					⚓				
11CRX-10-04	6	-04	6.4	1/4	M18x1.5	61.5	30	36	22
11CRX-12-05	8	-05	7.9	5/16	M20x1.5	61.5	30	36	24
11CRX-14-06	10	-06	9.5	3/8	M22x1.5	62.5	30	36	27
11CRX-16-08	12	-08	12.7	1/2	M24x1.5	76.5	42	44	30

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

192RX – Sealing Head (60°) BSP Swivel Nut

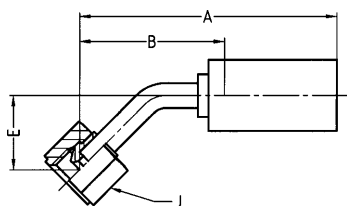


RX Series



Part No. #	DN size mm inch				Connection Type	A mm	B mm	J mm
					Thread Size 			
192RX-4-04	6	-04	6.4	1/4	G 1/4	47.5	16.5	17
192RX-6-05	8	-05	7.9	5/16	G 3/8	58.0	17.0	19
192RX-6-06	10	-06	9.5	3/8	G 3/8	51.0	18.5	22
192RX-8-06	10	-06	9.5	3/8	G 1/2	51.0	19.0	27
192RX-8-08	12	-08	12.7	1/2	G 1/2	55.5	21.0	27

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1B1RX – Sealing Head (60°) 45° Elbow BSP Swivel Nut



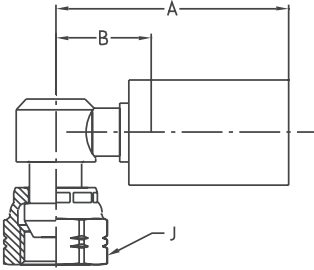
RX Series



Part No. #	DN size mm inch				Connection Type	A mm	B mm	E mm	J mm
					Thread Size 				
1B1RX-4-04	6	-04	6.4	1/4	G 1/4	61.5	41	21	17
1B1RX-6-05	8	-05	7.9	5/16	G 3/8	70.5	39	17	22
1B1RX-6-06	10	-06	9.5	3/8	G 3/8	68.5	36	14	22
1B1RX-8-06	10	-06	9.5	3/8	G 1/2	69.5	37	15	27
1B1RX-8-08	12	-08	12.7	1/2	G 1/2	88.5	54	18	27

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1B4RX – BSP Swivel Female 90° Compact Elbow

RX Series

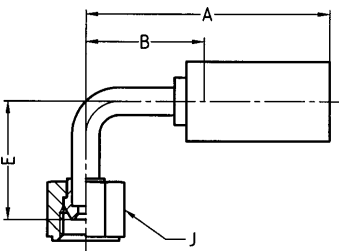




Part No. #	DN size mm inch				Connection Type	A mm	B mm	J mm
								
1B4RX-4-04	6	-04	6.4	1/4	G 1/4	50.0	18.5	19
1B4RX-6-05	8	-05	7.9	5/16	G 3/8	54.3	22.8	22
1B4RX-6-06	10	-06	9.5	3/8	G 3/8	56.3	23.8	22
1B4RX-8-08	12	-08	12.7	1/2	G 1/2	60.0	25.5	27

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1B2RX – Sealing Head (60°) 90° Elbow BSP Swivel Nut

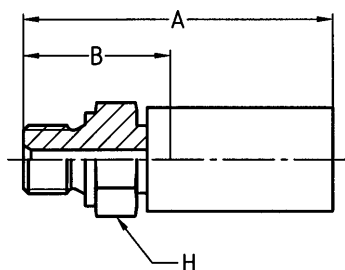
RX Series




Part No. #	DN size mm inch				Connection Type	A mm	B mm	E mm	J mm
									
1B2RX-4-04	6	-04	6.4	1/4	G 1/4	61.5	30	30	17
1B2RX-6-05	8	-05	7.9	5/16	G 3/8	61.5	30	28	22
1B2RX-6-06	10	-06	9.5	3/8	G 3/8	62.5	30	30	22
1B2RX-8-06	10	-06	9.5	3/8	G 1/2	62.5	30	31	27
1B2RX-8-08	12	-08	12.7	1/2	G 1/2	76.5	42	38	27

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1D9RX – BSP Male DIN 3852 Shape A

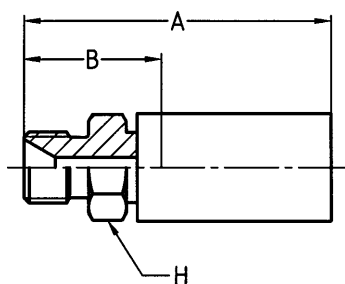


RX Series


Part No. #	DN size mm inch				Connection Type	A mm	B mm	J mm
					Thread Size			
1D9RX-4-04	6	-04	6.4	1/4	G 1/4	60.0	28.5	19
1D9RX-6-05	8	-05	7.9	5/16	G 3/8	60.5	29.0	22
1D9RX-6-06	10	-06	9.5	3/8	G 3/8	62.5	30.0	22
1D9RX-8-06	10	-06	9.5	3/8	G 1/2	71.0	32.5	27
1D9RX-8-08	12	-08	12.7	1/2	G 1/2	67.0	32.5	27

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

13BRX – BSP Male - 60° Flare



RX Series

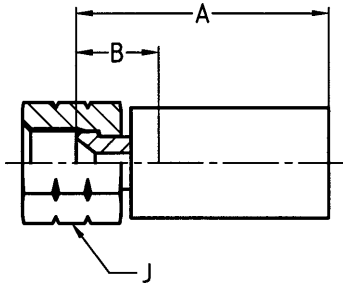
Part No. #	DN size mm inch				Connection Type	A mm	B mm	J mm
					Thread Size			
13BRX-4-04	6	-04	6.4	1/4	G 1/4	57.0	25.5	17
13BRX-6-05	8	-05	7.9	5/16	G 3/8	59.5	28.0	22
13BRX-6-06	10	-06	9.5	3/8	G 3/8	61.5	29.0	22
13BRX-8-06	10	-06	9.5	3/8	G 1/2	66.5	34.0	24
13BRX-8-08	12	-08	12.7	1/2	G 1/2	68.5	34.0	24

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request



106RX – JIC - 37° Flare UNF Swivel Nut

RX Series

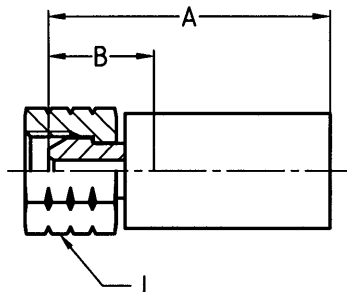




Part No. #	DN size		mm		inch		Connection Type	A	B	J
	mm	inch	mm	inch	Thread Size	mm	mm	mm		
106RX-5-04	6	-04	6.4	1/4	1/2 - 20UNF	46.0	15.0	19		
106RX-6-05	8	-05	7.9	5/16	9/16 - 18UNF	48.0	17.0	19		
106RX-8-06	10	-06	9.5	3/8	3/4 - 16UNF	51.0	19.0	24		
106RX-10-08	12	-08	12.7	1/2	7/8 - 14UNF	51.5	17.5	27		

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

107RX – Sealing Head 37° Cone NPSM Swivel Nut

RX Series

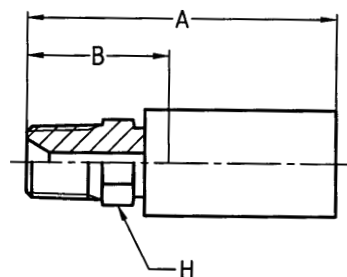




Part No. #	DN size mm inch				Connection Type	A mm	B mm	J mm
								
107RX-4-04	6	-04	6.4	1/4	1/4 - 18NPSM	49.5	18.5	19
107RX-6-05	8	-05	7.9	5/16	3/8 - 18NPSM	50.7	19.7	22
107RX-6-06	10	-06	9.5	3/8	3/8 - 18NPSM	52.7	20.7	22
107RX-8-08	12	-08	12.7	1/2	1/2 - 14NPSM	53.4	19.4	27

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

101RX – NPTF Male - 60° Flare

RX Series



Part No. #	DN size mm inch				Connection Type	A mm	B mm	J mm
								
101RX-4-04	6	-04	6.4	1/4	1/4 - 18NPTF	58	26.5	14
101RX-6-04	6	-04	6.4	1/4	3/8 - 18NPTF	60	28.5	19
101RX-6-05	8	-05	7.9	5/16	3/8 - 18NPTF	60	28.5	19
101RX-4-06	10	-06	9.5	3/8	1/4 - 18NPTF	60	27.5	14
101RX-6-06	10	-06	9.5	3/8	3/8 - 18NPTF	62	29.5	19
101RX-6-08	12	-08	12.7	1/2	1/2 - 14NPTF	64	29.5	19
101RX-8-08	12	-08	12.7	1/2	3/8 - 18NPTF	69	34.5	22

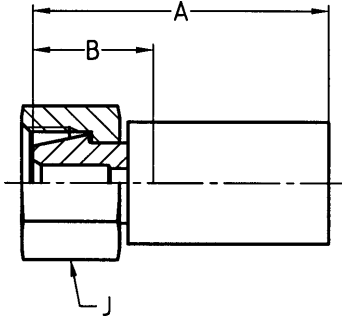
Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1F4RX – 24° Sealing Cone

French Gas Series

Metric Swivel Nut

RX Series



Part No. #	DN size				Connection Type		A mm	B mm	J mm
	mm	inch	mm	inch	Thread Size	Tube OD			
1F4RX-13-04	6	-04	6.4	1/4	M20x1.5	13	53.0	21.5	24
1F4RX-13-05	8	-05	7.9	5/16	M20x1.5	13	53.0	21.5	24
1F4RX-17-05	8	-05	7.9	5/16	M24x1.5	17	58.5	27.0	30
1F4RX-13-06	10	-06	9.5	3/8	M20x1.5	13	55.0	23.0	24
1F4RX-17-06	10	-06	9.5	3/8	M24x1.5	17	58.5	26.5	30
1F4RX-17-08	12	-08	12.7	1/2	M24x1.5	17	59.5	25.5	30

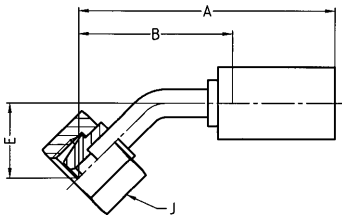
Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1F1RX – 24° Sealing Cone 45° Elbow

French Gas Series

Metric Swivel Nut

RX Series

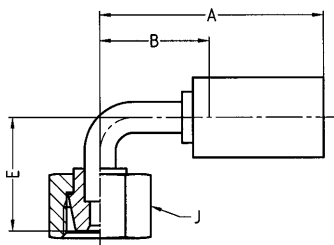


Part No. #	DN size				Connection Type		A mm	B mm	E mm	J mm
	mm	inch	mm	inch	Thread Size	Tube OD				
1F1RX-13-04	6	-04	6.4	1/4	M20x1.5	13	63.5	32	18	24
1F1RX-13-05	8	-05	7.9	5/16	M20x1.5	13	78.5	47	23	24
1F1RX-13-06	10	-06	9.5	3/8	M20x1.5	13	79.5	47	23	24
1F1RX-17-06	12	-08	12.7	1/2	M24x1.5	17	90.5	56	28	30

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1F2RX – 24° Sealing Head 90° Elbow French Gas Series Metric Swivel Nut

RX Series

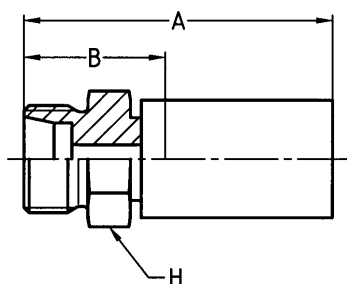


Part No. #	DN size mm inch				Connection Type		A mm	B mm	E mm	J mm
	mm	inch	mm	inch	Thread Size	Tube OD				
1F2RX-13-04	6	-04	6.4	1/4	M20x1.5	13	55.5	24	28	24
1F2RX-13-05	8	-05	7.9	5/16	M20x1.5	13	61.5	31	30	24
1F2RX-13-06	10	-06	9.5	3/8	M20x1.5	13	66.5	39	34	24
1F2RX-17-06	12	-08	12.7	1/2	M24x1.5	17	76.5	44	42	30

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1FGRX – Metric Male 24° Flare French Gas Series

RX Series



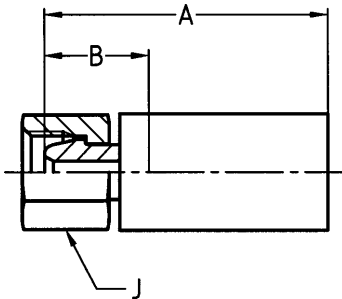
Part No. #	DN size mm inch				Connection Type		A mm	B mm	J mm
	mm	inch	mm	inch	Thread Size	Tube OD			
1FGRX-13-04	6	-04	6.4	1/4	M20x1.5	13	58	26.5	22
1FGRX-13-05	8	-05	7.9	5/16	M20x1.5	13	58	26.5	22
1FGRX-13-06	10	-06	9.5	3/8	M20x1.5	13	60	27.5	22
1FGRX-17-06	12	-08	12.7	1/2	M24x1.5	17	66	31.5	27

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1C3YX – Sealing Head

Light Series – Metric Swivel Nut

DIN 20 078 A



YX Series

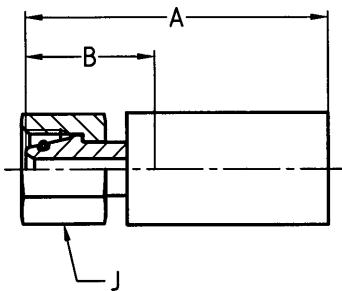
Part No. #	Part No. #	DN size mm inch		Connection Type Thread Size		A mm	B mm	J mm	
		○		⋈				⬡	
1C3YX-6-03	1C3YX-6-03 C2W	5	-03	4.8	3/16	M12x1.5	43.0	18.0	14
1C3YX-8-03	1C3YX-8-03 C2W	5	-03	4.8	3/16	M14x1.5	43.0	17.5	17
1C3YX-10-03	1C3YX-10-03 C2W	5	-03	4.8	3/16	M16x1.5	43.0	17.5	19
1C3YX-8-04	1C3YX-8-04 C2W	6	-04	6.4	1/4	M14x1.5	46.0	18.0	17
1C3YX-10-04	1C3YX-10-04 C2W	6	-04	6.4	1/4	M16x1.5	46.0	18.0	19
1C3YX-10-05	1C3YX-10-05 C2W	8	-05	7.9	5/16	M16x1.5	46.0	18.0	19
1C3YX-10-06	1C3YX-10-06 C2W	10	-06	9.5	3/8	M16x1.5	49.0	19.5	22
1C3YX-12-06	1C3YX-12-06 C2W	10	-06	9.5	3/8	M18x1.5	48.0	19.0	22
1C3YX-12-08	1C3YX-12-08 C2W	12	-08	12.7	1/2	M18x1.5	51.5	20.0	24
1C3YX-15-08	1C3YX-15-08 C2W	12	-08	12.7	1/2	M22x1.5	51.0	20.0	27
1C3YX-18-10	-	16	-10	15.9	5/8	M26x1.5	51	20.0	32
1C3YX-18-12	-	20	-12	19.0	3/4	M26x1.5	57	22.0	32
1C3YX-22-12	-	20	-12	19.0	3/4	M30x2	57	22.5	36
1C3YX-28-16	-	25	-16	25.4	1	M36x2	59	24.5	41

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, C2W includes stainless steel nipple (material 1.4301). Stainless steel (1.4571) fittings available on request.

1CAYX – 24° Sealing Cone / O-Ring

Light Series – Metric Swivel Nut

DIN 20 078 N



YX Series

Part No. #	DN size mm inch		Connection Type Thread Size		A mm	B mm	J mm	
	○		⋈				⬡	
1CAYX-6-03	5	-03	4.8	3/16	M12x1.5	45.0	20	14
1CAYX-8-04	6	-04	6.4	1/4	M14x1.5	50.0	23	17
1CAYX-10-04	6	-04	6.4	1/4	M16x1.5	50.0	22	19
1CAYX-10-05	8	-05	7.9	5/16	M16x1.5	50.0	22	19
1CAYX-12-06	10	-06	9.5	3/8	M18x1.5	50.0	23	22
1CAYX-15-08	12	-08	12.7	1/2	M22x1.5	59.0	28	27
1CAYX-18-10	16	-10	15.9	5/8	M26x1.5	56.0	25	32
1CAYX-22-12	20	-12	19.0	3/4	M30x2	61.5	27	36
1CAYX-28-16	25	-16	25.4	1	M36x2	63.5	29	41

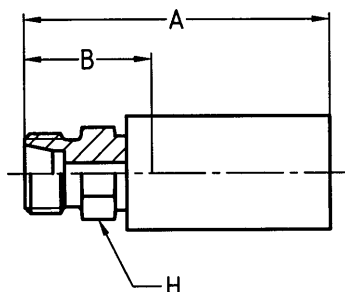
For Viton seals please add "V";
i.e.: 1CAYX-8-10V

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request.. Stainless steel (1.4571) fittings available on request.

1D0YX – Metric Male 24° Flare

Light Series

DIN 20 078 D



YX Series

Part No. #	DN size mm inch				Connection Type Thread Size	A mm	B mm	J mm
1D0YX-6-03	5	-03	4.8	3/16	M12x1.5	48	22.5	12
1D0YX-8-04	6	-04	6.4	1/4	M14x1.5	50	22.5	14
1D0YX-10-05	8	-05	7.9	5/16	M16x1.5	54	25.5	17
1D0YX-12-06	10	-06	9.5	3/8	M18x1.5	54	26.5	19
1D0YX-15-08	12	-08	12.7	1/2	M22x1.5	59	27.5	22
1D0YX-18-10	16	-10	15.9	5/8	M26x1.5	59	28.0	27
1D0YX-22-12	20	-12	19.0	3/4	M30x2	67	32.0	30
1D0YX-28-16	25	-16	25.4	1	M36x2	67	32.0	36

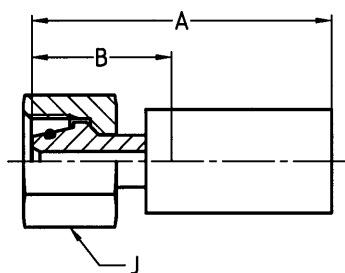
Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request.
Stainless steel (1.4571) fittings available on request.

1C9YX – 24° Sealing Cone / O-Ring

Heavy Series

Metric Swivel Nut

DIN 20 078 P



YX Series

Part No. #	DN size mm inch				Connection Type		A mm	B mm	J mm
					Thread Size	Tube OD			
1C9YX-8-03	5	-03	4.8	3/16	M16x1.5	8	47.0	22.0	19
1C9YX-8-04	6	-04	6.4	1/4	M16x1.5	8	50.5	23.5	19
1C9YX-10-04	6	-04	6.4	1/4	M18x1.5	10	54.0	27.0	22
1C9YX-12-05	8	-05	7.9	5/16	M20x1.5	12	56.0	28.0	24
1C9YX-14-06	10	-06	9.5	3/8	M22x1.5	14	56.5	29.5	27
1C9YX-16-08	12	-08	12.7	1/2	M24x1.5	16	64.5	33.5	30
1C9YX-20-10	16	-10	15.9	5/8	M30x2	20	68.0	37.0	36
1C9YX-25-12	20	-12	19.0	3/4	M36x2	25	76.5	42.0	46
1C9YX-30-16	25	-16	25.4	1	M42x2	30	79.0	44.5	50

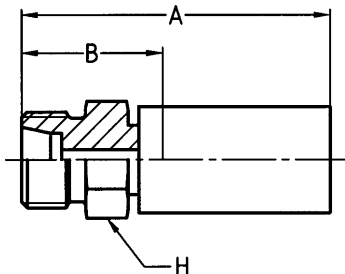
For Viton seals please add "V";
i.e.: 1C9YX-10-04V

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request.
Stainless steel (1.4571) fittings available on request.




1D2YX – Metric Male 24° Flare

Heavy Series

DIN 20 078 E



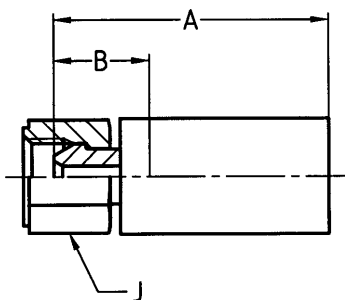
YX Series

Part No. #	DN size mm inch				Connection Type		A mm	B mm	J mm
					Thread Size 	Tube OD 			
1D2YX-8-03	5	-03	4.8	3/16	M16x1.5	8	50	24.5	17
1D2YX-10-04	6	-04	6.4	1/4	M18x1.5	10	54	26.5	19
1D2YX-12-05	8	-05	7.9	5/16	M20x1.5	12	55	26.5	22
1D2YX-14-06	10	-06	9.5	3/8	M22x1.5	14	57	29.5	22
1D2YX-16-08	12	-08	12.7	1/2	M24x1.5	16	61	29.5	24
1D2YX-20-10	16	-10	15.9	5/8	M30x2	20	65	34.0	30
1D2YX-25-12	20	-12	19.0	3/4	M36x2	25	71	36.0	36
1D2YX-30-16	25	-16	25.4	1	M42x2	30	73	38.0	46




Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request.
Stainless steel (1.4571) fittings available on request.

192YX – Sealing Head (60°)

BSP Swivel Nut



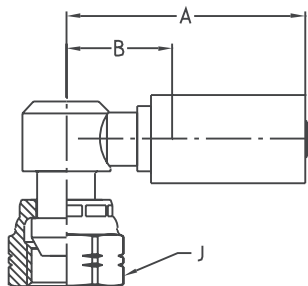
YX Series

Part No. #	DN size mm inch				Connection Type		A mm	B mm	J mm
					Thread Size 	Tube OD 			
192YX-4-03	5	-03	4.8	3/16	G 1/4	41.5	16.0	17	
192YX-4-04	6	-04	6.3	1/4	G 1/4	43.5	16.5	17	
192YX-6-05	8	-05	7.9	3/16	G 3/8	45.0	17.0	19	
192YX-6-06	10	-06	9.5	3/8	G 3/8	46.0	18.5	22	
192YX-8-06	10	-06	9.5	3/8	G 1/2	46.0	19.0	27	
192YX-8-08	12	-08	12.7	1/2	G 1/2	52.2	21.0	27	
192YX-12-10	16	-10	15.9	5/8	G 3/4	50.0	19.0	32	
192YX-12-12	20	-12	19.0	3/4	G 3/4	56.0	21.0	32	
192YX-16-12	20	-12	19.0	3/4	G 1	56.0	21.5	41	
192YX-16-16	25	-16	25.4	1	G 1	57.0	22.0	41	
192YX-20-16	25	-16	25.4	1	G 1 1/4	58.0	23.5	50	

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request.
Stainless steel (1.4571) fittings available on request.

1B4YX – BSP Swivel Female 90° Compact Elbow

YX Series

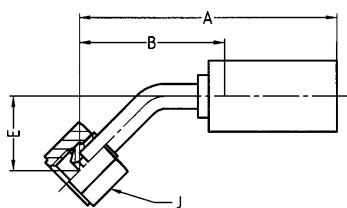


Part No. #	DN size		mm		inch		Connection Type	A	B	J
	mm	inch	mm	inch	mm	inch	Thread Size	mm	mm	mm
1B4YX-4-04	6	-04	6.3	1/4			G 1/4	46.0	18.5	19
1B4YX-6-05	8	-05	7.9	3/16			G 3/8	51.3	22.8	22
1B4YX-6-06	10	-06	9.5	3/8			G 3/8	51.3	23.8	22
1B4YX-8-08	12	-08	12.7	1/2			G 1/2	57.0	25.5	27

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request.
Stainless steel (1.4571) fittings available on request.

1B1YX – Sealing Head (60°) 45° Elbow BSP Swivel Nut

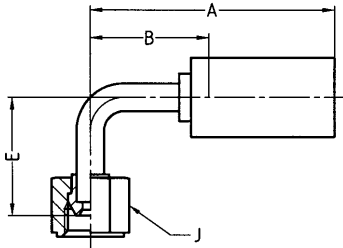
YX Series



Part No. #	DN size		mm		inch		Connection Type	A	B	E	J
	mm	inch	mm	inch	mm	inch	Thread Size	mm	mm	mm	mm
1B1YX-4-03	5	-03	4.8	3/16			G 1/4	57.5	32	17	17
1B1YX-4-04	6	-04	6.4	1/4			G 1/4	68.5	41	21	17
1B1YX-6-05	8	-05	7.9	5/16			G 3/8	67.5	39	17	22
1B1YX-6-06	10	-06	9.5	3/8			G 3/8	63.5	36	14	22
1B1YX-8-06	10	-06	9.5	3/8			G 1/2	64.5	37	15	27
1B1YX-8-08	12	-08	12.7	1/2			G 1/2	85.5	54	18	27
1B1YX-12-10	16	-10	15.9	5/8			G 3/4	99.0	68	26	32
1B1YX-12-12	20	-12	19.0	3/4			G 3/4	117.0	82	30	32
1B1YX-16-16	25	-16	25.4	1			G 1	120.0	85	43	41
1B1YX-20-16	25	-16	25.4	1			G 1 1/4	116.0	81	34	50

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request.
Stainless steel (1.4571) fittings available on request.

1B2YX – Sealing Head (60°) 90° Elbow BSP Swivel Nut

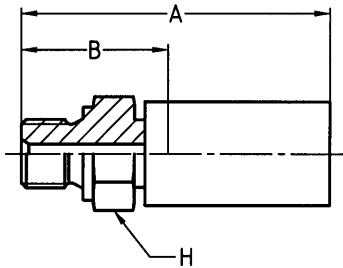


YX Series

Part No. #	DN size mm inch				Connection Type Thread Size	A mm	B mm	E mm	J mm
	5	-03	4.8	3/16					
1B2YX-4-03	5	-03	4.8	3/16	G 1/4	47.5	22	24	17
1B2YX-4-04	6	-04	6.4	1/4	G 1/4	57.5	30	30	17
1B2YX-6-05	8	-05	7.9	5/16	G 3/8	58.5	30	28	22
1B2YX-6-06	10	-06	9.5	3/8	G 3/8	57.5	30	30	22
1B2YX-8-06	10	-06	9.5	3/8	G 1/2	57.5	30	31	27
1B2YX-8-08	12	-08	12.7	1/2	G 1/2	73.5	42	38	27
1B2YX-12-10	16	-10	15.9	5/8	G 3/4	84.0	53	50	32
1B2YX-12-12	20	-12	19.0	3/4	G 3/4	100.0	65	60	32
1B2YX-16-16	25	-16	25.4	1	G 1	100.0	65	69	41
1B2YX-20-16	25	-16	25.4	1	G 1 1/4	100.0	65	70	50

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request.
Stainless steel (1.4571) fittings available on request.

1D9YX – BSP Male DIN 3852 Shape A



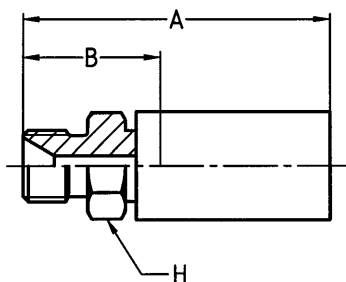
YX Series

Part No. #	DN size mm inch				Connection Type Thread Size	A mm	B mm	J mm
	5	-03	4.8	3/16				
1D9YX-2-03	5	-03	4.8	3/16	G 1/8	47.5	22.0	14
1D9YX-4-03	5	-03	4.8	3/16	G 1/4	54.0	28.5	19
1D9YX-4-04	6	-04	6.4	1/4	G 1/4	58.0	28.5	19
1D9YX-6-05	8	-05	7.9	5/16	G 3/8	57.5	29.0	22
1D9YX-4-06	10	-06	9.5	3/8	G 1/4	57.0	29.5	19
1D9YX-6-06	10	-06	9.5	3/8	G 3/8	57.5	30.0	22
1D9YX-8-06	10	-06	9.5	3/8	G 1/2	60.0	32.5	27
1D9YX-8-08	12	-08	12.7	1/2	G 1/2	64.0	32.5	27
1D9YX-12-10	16	-10	15.9	5/8	G 3/4	66.0	35.0	32
1D9YX-12-12	20	-12	19.0	3/4	G 3/4	72.0	37.0	32
1D9YX-16-12	20	-12	19.0	3/4	G 1	74.0	39.0	41
1D9YX-20-16	25	-16	25.4	1	G 1 1/4	76.0	41.0	50

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request.
Stainless steel (1.4571) fittings available on request.

13BYX – BSP Male - 60° Flare

YX Series

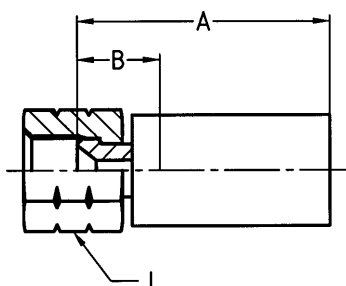


Part No. #	DN size mm inch				Connection Type	A mm	B mm	J mm
					Thread Size 			
13BYX-2-03	5	-03	4.8	3/16	G 1/8	47.5	22.0	14
13BYX-4-03	5	-03	4.8	3/16	G 1/4	51.0	25.5	17
13BYX-4-04	6	-04	6.4	1/4	G 1/4	53.0	25.5	17
13BYX-6-05	8	-05	7.9	5/16	G 3/8	56.5	28.0	22
13BYX-6-06	10	-06	9.5	3/8	G 3/8	56.5	29.0	22
13BYX-8-06	10	-06	9.5	3/8	G 1/2	61.5	34.0	24
13BYX-8-08	12	-08	12.7	1/2	G 1/2	65.5	34.0	24
13BYX-12-10	16	-10	15.9	5/8	G 3/4	69.0	38.0	32
13BYX-12-12	20	-12	19.0	3/4	G 3/4	73.0	38.0	32
13BYX-16-12	20	-12	19.0	3/4	G 1	81.5	46.5	36
13BYX-16-16	25	-16	25.4	1	G 1	81.5	46.5	36
13BYX-20-16	25	-16	25.4	1	G 1 1/4	83.5	48.5	50

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request.
Stainless steel (1.4571) fittings available on request.

106YX – JIC - 37° Flare UNF Swivel Nut

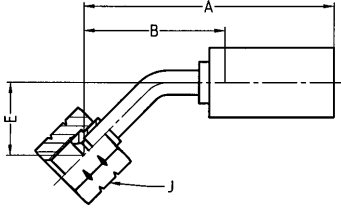
YX Series




Part No. #	DN size mm inch				Connection Type	A mm	B mm	J mm
					Thread Size 			
106YX-4-03	5	-03	4.8	3/16	7/16 - 20UNF	40.0	15.0	17
106YX-5-04	6	-04	6.4	1/4	1/2 - 20UNF	42.0	15.0	19
106YX-6-05	8	-05	7.9	5/16	9/16 - 18UNF	45.0	17.0	19
106YX-8-06	10	-06	9.5	3/8	3/4 - 16UNF	46.0	19.0	24
106YX-10-08	12	-08	12.7	1/2	7/8 - 14UNF	48.5	17.5	27
106YX-12-10	16	-10	15.9	5/8	1 1/16 - 12UNF	50.0	19.0	32
106YX-16-12	20	-12	19.0	3/4	1 5/16 - 12UNF	56.0	21.5	41
106YX-20-16	25	-16	25.4	1	1 5/8 - 12UNF	56.0	21.5	50

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request.
Stainless steel (1.4571) fittings available on request.

137YX – JIC - 37° Flare 45° Elbow UNF Swivel Nut

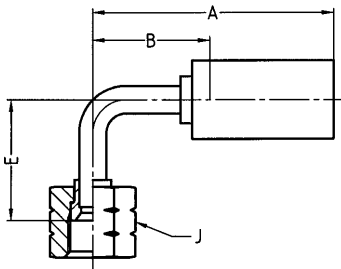


YX Series


Part No. #	DN size mm inch				Connection Type	A mm	B mm	E mm	J mm
					Thread Size				
137YX-4-03	5	-03	4.8	3/16	7/16 - 20UNF	56.5	31	16	17
137YX-5-04	6	-04	6.4	1/4	1/2 - 20UNF	68.5	41	21	19
137YX-6-05	8	-05	7.9	5/16	9/16 - 18UNF	66.5	38	16	19
137YX-8-06	10	-06	9.5	3/8	3/4 - 16UNF	64.5	37	15	24
137YX-10-08	12	-08	12.7	1/2	7/8 - 14UNF	80.5	49	19	27
137YX-12-10	16	-10	15.9	5/8	1 1/16 - 12UNF	96.0	65	27	32
137YX-16-12	20	-12	19.0	3/4	1 5/16 - 12UNF	114.0	79	32	41
137YX-20-16	25	-16	25.4	1	1 5/8 - 12UNF	113.0	78	36	50

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request.
Stainless steel (1.4571) fittings available on request.

139YX – JIC - 37° Flare 90° Elbow UNF Swivel Nut



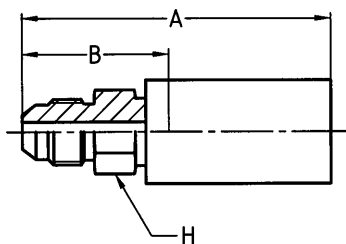
YX Series



Part No. #	DN size mm inch				Connection Type	A mm	B mm	E mm	J mm
					Thread Size				
139YX-4-03	5	-03	4.8	3/16	7/16 - 20UNF	47.5	22	24	17
139YX-5-04	6	-04	6.4	1/4	1/2 - 20UNF	57.5	30	31	19
139YX-6-05	8	-05	7.9	5/16	9/16 - 18UNF	58.5	30	28	19
139YX-8-06	10	-06	9.5	3/8	3/4 - 16UNF	57.5	30	31	24
139YX-10-08	12	-08	12.7	1/2	7/8 - 14UNF	73.5	42	39	27
139YX-12-10	16	-10	15.9	5/8	1 1/16 - 12UNF	84.0	53	52	32
139YX-16-12	20	-12	19.0	3/4	1 5/16 - 12UNF	100.0	65	62	41
139YX-20-16	25	-16	25.4	1	1 5/8 - 12UNF	100.0	65	73	50

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request.
Stainless steel (1.4571) fittings available on request.

103YX – JIC Male 37° Cone

YX Series

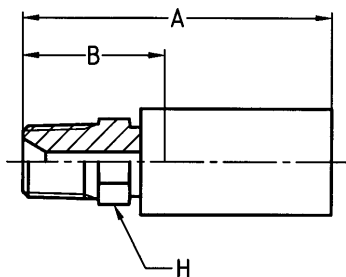




Part No. #	DN size mm inch				Connection Type	A mm	B mm	J mm
					Thread Size 			
103YX-4-03	5	-03	4.8	3/16	7/16 - 20UNF	52.0	26.5	14
103YX-5-04	6	-04	6.4	1/4	1/2 - 20UNF	56.0	28.5	14
103YX-6-05	8	-05	7.9	5/16	9/16 - 18UNF	57.0	28.5	17
103YX-8-06	10	-06	9.5	3/8	3/4 - 16UNF	60.0	32.5	22
103YX-10-08	12	-08	12.7	1/2	7/8 - 14UNF	69.5	38.0	24
103YX-12-10	16	-10	15.9	5/8	1 1/16 - 12UNF	71.0	40.0	30
103YX-16-12	20	-12	19.0	3/4	1 5/16 - 12UNF	76.0	41.0	36
103YX-20-16	25	-16	25.4	1	1 5/8 - 12UNF	77.5	42.5	46

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request.
Stainless steel (1.4571) fittings available on request.

101YX – NPTF Male - 60° Flare

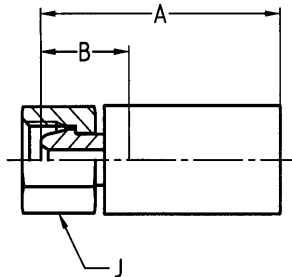
YX Series



Part No. #	DN size mm inch				Connection Type	A mm	B mm	J mm
					Thread Size 			
101YX-2-03	5	-03	4.8	3/16	1/8 - 27NPTF	48	22.5	12
101YX-4-03	5	-03	4.8	3/16	1/4 - 18NPTF	52	26.5	14
101YX-4-04	6	-04	6.4	1/4	1/4 - 18NPTF	54	26.5	14
101YX-6-04	6	-04	6.4	1/4	3/8 - 18NPTF	56	28.5	19
101YX-6-05	8	-05	7.9	5/16	3/8 - 18NPTF	57	28.5	19
101YX-4-06	10	-06	9.5	3/8	1/4 - 18NPTF	55	27.5	14
101YX-6-06	10	-06	9.5	3/8	3/8 - 18NPTF	57	29.5	19
101YX-6-08	12	-08	12.7	1/2	3/8 - 18NPTF	61	29.5	19
101YX-8-08	12	-08	12.7	1/2	1/2 - 14NPTF	66	34.5	22
101YX-12-10	16	-10	15.9	5/8	3/4 - 14NPTF	66	35.0	27
101YX-12-12	20	-12	19.0	3/4	3/4 - 14NPTF	70	35.0	27
101YX-16-12	20	-12	19.0	3/4	1 - 11 1/2NPTF	77	42.0	36
101YX-16-16	25	-16	25.4	1	1 - 11 1/2NPTF	78	42.0	36

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request.
Stainless steel (1.4571) fittings available on request.

1U0YX – Sealing Head BSP Swivel Nut

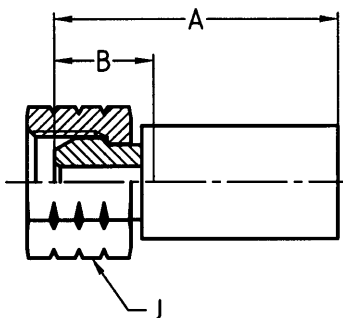


YX Series

Part No. #	Part No. #	DN size mm inch				Connection Type Thread Size	A mm	B mm	J mm
		mm	inch	mm	inch				
1U0YX-2-03	–	5	-03	4.8	3/16	G 1/8	43.0	18.0	17
1U0YX-4-03	1U0YX-4-03 C2W	5	-03	4.8	3/16	G 1/4	41.5	16.0	17
1U0YX-6-03	–	5	-03	4.8	3/16	G 1/4	43.0	17.5	17
1U0YX-4-04	1U0YX-4-04 C2W	6	-04	6.4	1/4	G 1/4	44.5	16.5	17
1U0YX-6-03	1U0YX-6-03 C2W	5	-03	4.8	3/16	G 3/8			
1U0YX-6-04	1U0YX-6-04 C2W	6	-04	6.4	1/4	G 3/8			
1U0YX-6-05	1U0YX-6-05 C2W	8	-05	7.9	5/16	G 3/8	45.0	17.0	19
1U0YX-6-06	1U0YX-6-06 C2W	10	-06	9.5	3/8	G 3/8	48.0	18.5	22
1U0YX-8-06	1U0YX-8-06 C2W	10	-06	9.5	3/8	G 1/2	48.0	19.0	27
1U0YX-8-08	1U0YX-8-08 C2W	12	-08	12.7	1/2	G1/2	52.5	21.0	27
1U0YX-10-08	–	12	-08	12.7	1/2	G 5/8	51.0	20.0	27
1U0YX-12-10	1U0YX-12-10 C2W	16	-10	15.9	5/8	G 3/4	50.0	19.0	32
1U0YX-12-12	1U0YX-12-12 C2W	20	-12	19.0	3/4	G 3/4	56.0	21.0	32
1U0YX-16-12	1U0YX-16-12 C2W	20	-12	19.0	3/4	G 1	56.0	21.5	41
1U0YX-16-16	1U0YX-16-16 C2W	25	-16	25.4	1	G 1	57.0	22.0	41
1U0YX-20-16	1U0YX-20-16 C2W	25	-16	25.4	1	G 1 1/4	58.0	23.5	50

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, C2W includes stainless steel nipple (material 1.4301). Stainless steel (1.4571) fittings available on request.

107YX – 60° Sealing Cone NPSM Swivel Nut



YX Series

Part No. #	Part No. #	DN size mm inch				Connection Type Thread Size	A mm	B mm	J mm
		mm	inch	mm	inch				
107YX-4-03	107YX-4-03 C2W	5	-03	4.8	3/16				
107YX-2-03	107YX-2-03 C2W	5	-03	4.8	3/16	1/8 - 27NPSM	46.5	21.0	17
107YX-4-04	107YX-4-04 C2W	6	-04	6.4	1/4	1/4 - 18NPSM	46.5	18.5	19
107YX-6-05	107YX-6-05 C2W	8	-05	7.9	5/16	3/8 - 18NPSM	47.7	19.7	22
107YX-6-06	107YX-6-06 C2W	10	-06	9.5	3/8	3/8 - 18NPSM	49.7	20.7	22
107YX-8-08	107YX-8-08 C2W	12	-08	12.7	1/2	1/2 - 14NPSM	50.4	19.4	27
107YX-12-10	107YX-12-10 C2W	16	-10	15.9	5/8	3/4 - 14NPSM	52.6	21.6	32
107YX-12-12	107YX-12-12 C2W	20	-12	19.0	3/4	3/4 - 14NPSM	58.6	23.6	32

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, C2W includes stainless steel nipple (material 1.4301). Stainless steel (1.4571) fittings available on request.

L – Thermoplastic Tubing

presto single tubes and tube bundles	L2
presto polyurethane tubes – Single tubes	L3
presto polyurethane tubes – Twin-line tubes	L4
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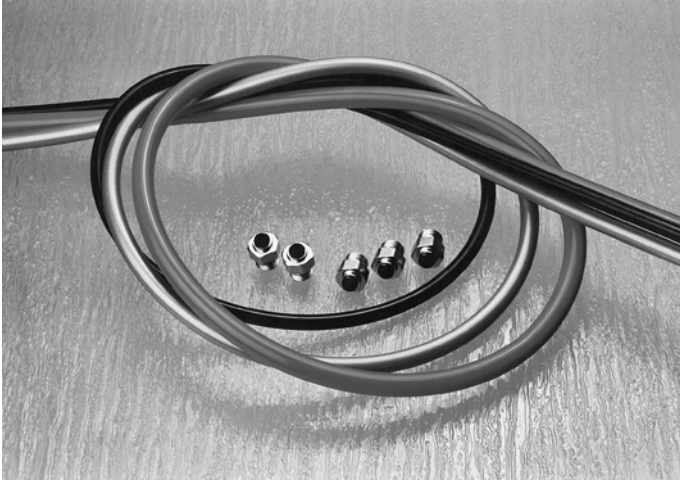
L

presto single tubes and tube bundles

The **presto** polyurethane tubing features excellent flexibility and kink resistance. In combination with the wide range of Parker fittings it provides the optimum solution for pressurised air applications.

Working pressures shown are based on a design factor of 3:1.

presto Tubing is not approved for food applications.



All **presto** tubing in metric and imperial dimensions is TÜV and MUC-KSP-A 039 A III tested and manufactured to international standards.

The **prestolok** push in fitting range is also TÜV tested for outside tube dimensions.

presto tubing is manufactured to be fully compatible with Parkers wide range of compression, push-in & screw type fittings. Refer to **Pneumatic connectors handbook 0093-GB** and catalogue **4660-World Standard** for TrueSeal™ and Fast & Tite® products.








Standard Packaging of all **presto** tube products is polyethylene bags. Dispensing cardboard boxes (K) are available on request.

prestolok polyurethane tubes (52 Shore D)

– Single tubes –






Working pressures shown are based on a design factor of 3:1.
Temperature range: -35 °C up to +80 °C

Polyurethane (TPU) metric single tubes with O.D. within the limits of CETOP RP 54P

Part No. PU metric #	Tube size		Maximum working pressure MPa			Minimum bend radius mm 	Weight g/m 
	O.D. mm 	I.D. mm 	-35 °C to +23 °C	-35 °C to +40 °C 	-35 °C to +60 °C		
TPU 3 x 0.5	3.0	2.0	1.2	0.9	0.8	13	5
TPU 4 x 0.75	4.0	2.5	1.4	1.1	0.9	17	9
TPU 6 x 1	6.0	4.0	1.2	0.9	0.8	27	20
TPU 8 x 1.25	8.0	5.5	1.1	0.9	0.7	37	31
TPU 10 x 1.5	10.0	7.0	1.0	0.8	0.7	54	50
TPU 12 x 2	12.0	8.0	1.2	0.9	0.8	62	78
TPU 16 x 2.5	16.0	11.0	1.1	0.9	0.7	88	131

For Prestolok push-in fittings (TÜV tested).

Polyurethane (TPU) single tubes (imperial)

Part No. PU inch #	Tube size				Maximum working pressure MPa			Minimum bend radius inch 	Weight g/m 
	O.D. inch mm 		I.D. inch mm 		-35 °C to +23 °C	-35 °C to +40 °C 	-35 °C to +60 °C		
TPU 1/8	1/8	3.2	0.089	2.3	1.0	0.8	0.7	0.520	5
TPU 5/32	5/32	4.0	0.102	2.6	1.2	1.0	0.8	0.669	9
TPU 3/16	3/16	4.8	0.114	2.9	1.4	1.2	1.0	0.787	13
TPU 1/4	1/4	6.4	0.158	4.0	1.3	1.1	0.9	0.866	23
TPU 5/16	5/16	7.9	0.224	5.7	1.0	0.8	0.7	1.457	30
TPU 3/8	3/8	9.5	0.256	6.5	1.1	0.9	0.8	1.732	49
TPU 1/2	1/2	12.7	0.343	8.7	1.1	0.9	0.7	2.560	84

For Prestolok push-in fittings (TÜV tested).

Polyurethane single tube tolerances in mm	Tube O.D. 3 to 8 mm ± 0,1	Tube O.D. 10 to 16 mm ± 0,15
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Colour codes:






Natural 1	Red 2	Blue 3	Green 4	Black 5	Brown 6	Yellow 7	Orange 8	Gray 9	Purple 10	Pink 11	White 12	Silver 13
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presto polyurethane Tubes – Twin-line tubes –

Two tubes are permanently joined to make a pair. For assembly, the tube pair is separated at either end to the required length. Additional multi-line tubes are available on request.

Working pressures shown are based on a design factor of 3:1.
 Temperature range: -35 °C up to +80 °C

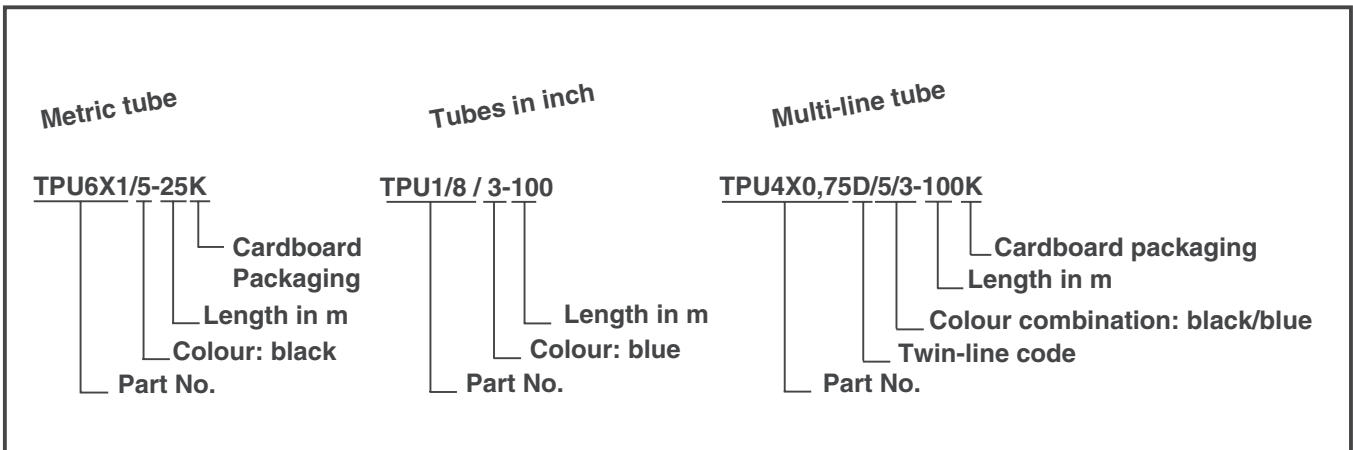
Polyurethane (TPU) metric twin-line tubes with O.D. within the limits of CETOP RP 54P

Part No. PU metric #	Tube size		Maximum working pressure MPa			Minimum bend radius mm 	Weight g/m 
	O.D. mm 	I.D. mm 	-35 °C to +23 °C	-35 °C to +40 °C 	-35 °C to +60 °C		
TPU 4 x 0.75D	4.0	2.5	1.0	0.9	0.7	17	18
TPU 6 x 1D	6.0	4.0	1.0	0.9	0.7	27	38
TPU 8 x 1.25D	8.0	5.5	1.0	0.9	0.7	37	60
TPU 10 x 1.5D	10.0	7.0	1.0	0.9	0.7	54	98

For Prestolok push-in fittings (TÜV tested).

Ordering keys for single and multi-line tubes

Examples:



Colour codes:

Natural 1	Red 2	Blue 3	Green 4	Black 5	Brown 6	Yellow 7	Orange 8	Gray 9	Purple 10	Pink 11	White 12	Silver 13
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presto polyamide tubes – Single tubes –



Polyamide tubing is extruded in polyamide PA12. This heat & light stabilised material meets or exceeds the DIN 73378, BS5409 PT 1 and the CETOP RP54P requirements.

DIN 74 324 tubing available on request (for airbrake applications).

Working pressures shown are based on a design factor of 3:1.

Temperature range: -40 °C up to +100 °C (acc. DIN 74324)

Polyamide (PA) metric single tubes

Part No. #	Tube O.D. x wall thickness 	Maximum working pressure MPa			Minimum bend radius mm 	Weight g/m
		-40 °C to +23 °C	-40 °C to +40 °C	-40 °C to +60 °C		
N3X0.60	3 x 0.60 mm	3.3	2.5	1.9	15	5
N4X0.65	4 x 0.65 mm	2.6	1.9	1.5	30	7
N4X1	4 x 1 mm	4.4	3.3	2.5	20	10
N5X1	5 x 1 mm	3.3	2.5	1.9	30	13
N6X1	6 x 1 mm	2.7	2.0	1.5	30	16
N8X1	8 x 1 mm	1.9	1.4	1.1	40	23
N8X1.25	8 x 1.25 mm	2.5	1.8	1.4	35	28
N10X1	10 x 1 mm	1.5	1.1	0.8	60	29
N10X1.25	10 x 1.25 mm	1.9	1.4	1.1	60	36
N10X1.5	10 x 1.5 mm	2.4	1.7	1.3	60	42
N12X1	12 x 1 mm	1.2	0.9	0.7	85	36
N12X1.5	12 x 1.5 mm	1.9	1.4	1.1	60	51
N12X1.75	12 x 1.75 mm	2.3	1.7	1.3	60	59
N14X1.5	14 x 1.5 mm	1.6	1.2	0.9	75	61
N16X1.5	16 x 1.5 mm	1.4	1.0	0.8	105	71
N16X2	16 x 2 mm	1.9	1.4	1.1	95	91
N22X2.5	22 x 2.5 mm	1.7	1.3	1.0	125	159

Polyamide (PA) single tubes (imperial)

2X022N	1/8 x .022 in	3.2 x 0.56 mm	2.8	2.1	1.6	20	8
2X025N	1/8 x .025 in	3.2 x 0.64 mm	3.3	2.5	1.9	20	8
3X025N	3/16 x .025 in	4.8 x 0.64 mm	2.1	1.5	1.2	35	18
4X030N	1/4 x .030 in	6.4 x 0.76 mm	1.8	1.3	1.0	45	32
4X040N	1/4 x .040 in	6.4 x 1.02 mm	2.5	1.9	1.4	30	32
5X031N	5/16 x .031 in	7.9 x 0.79 mm	1.5	1.1	0.8	40	51
6X055N	3/8 x .055 in	9.5 x 1.40 mm	2.3	1.7	1.3	60	73
6X062N	3/8 x .062 in	9.5 x 1.57 mm	2.6	2.0	1.5	60	72
8X062N	1/2 x .062 in	12.7 x 1.57 mm	1.9	1.4	1.1	75	130
10X062N	5/8 x .062 in	15.9 x 1.57 mm	1.5	1.1	0.8	100	204
12X078N	3/4 x .078 in	19.0 x 1.98 mm	1.5	1.1	0.9	120	293

*1 MPa = 10 bar

Polyamide single tube tolerances in mm	Tube O.D. 3 to 5 mm + 0,05 / - 0,08	Tube O.D. 6 to 16 mm + 0,05 / - 0,10
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Thermoplastic Tubing
Polyethylene tubes – Single tubes

presto polyethylene tubes
– Single tubes –

presto soft polyethylene tubing is manufactured to ASTM D-1248, type 1, E5 to achieve maximum environmental stress cracking resistance.

Working pressures shown are based on a design factor of 3:1.
 Temperature range: -30 °C up to +60 °C

Polyethylene (PE) metric single tubes

Part No. #	Tube O.D. x wall thickness 	Maximum working pressure MPa 			Minimum bend radius mm 	Weight g/m 
		0 °C to +23 °C	0 °C to +40 °C	0 °C to +60 °C		
L4X1	4 x 1 mm	2.14	1.60	1.07	25	9
L6X1	6 x 1 mm	1.31	0.98	0.66	35	15
L8X1	8 x 1 mm	0.93	0.70	0.47	55	21
L10X1	10 x 1 mm	0.72	0.54	0.36	85	27
L12X2	12 x 2 mm	1.24	0.93	0.62	75	47
L16X2	16 x 2 mm	0.97	0.72	0.48	90	84

Polyethylene (PE) single tubes (imperial)

2X022L	1/8 x .022 in	3.2 x 0.56 mm	1.38	1.03	0.69	20	7
4X040L	1/4 x .040 in	6.4 x 1.02 mm	1.24	0.93	0.62	30	29
6X062L	3/8 x .062 in	9.5 x 1.57 mm	1.31	0.98	0.66	60	66
8X062L	1/2 x .062 in	12.7 x 1.57 mm	0.97	0.72	0.48	75	119
8X080L	1/2 x .080 in	12.7 x 2.03 mm	1.21	0.91	0.60	75	117
10X080L	5/8 x .080 in	15.9 x 2.03 mm	0.97	0.72	0.48	90	185

*1 MPa = 10 bar

Correction factors for working pressures at lower temperatures	-30 °C to -20 °C: 0.7	-20 °C to 0 °C: 0.8
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Polyethylene single tube tolerances in mm	Tube O.D. 3 to 5 mm + 0,05 / - 0,08	Tube O.D. 6 to 16 mm + 0,05 / - 0,10
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Ordering key

Examples: **N6X1/5-25K** **2X022L/1-100**

└─ Cardboard packaging	└─ Length in m
└─ Length in m	└─ Length in m
└─ Colour: black	└─ Colour: natural
└─ Wall thickness in mm	└─ Polyethylene
└─ O.D. in mm	└─ Wall thickness in inch
└─ Polyamide	└─ O.D. in inch

Colour codes:

Natural 1	Red 2	Blue 3	Green 4	Black 5	Brown 6	Yellow 7	Orange 8	Gray 9	Purple 10	Pink 11	White 12	Silver 13
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Available types and colours

Part No.	Natural	Red	Blue	Green	Black	Brown	Yellow	Orange	Grey	Purple	Pink	White	Silver
TPU3X0,5			●		●								●
TPU4X0,75			●		●								●
TPU6X1			●		●								●
TPU8X1,25			●		●								●
TPU10X1,5			●		●								●
TPU12X2			●		●								●
TPU16X2,5			●		●								●
TPU1/8"													
TPU5/32"													
TPU3/16"													
TPU1/4"													
TPU5/16"													
TPU3/8"													
TPU1/2"													
TPU4X0,75D													
TPU6X1D													
TPU8X1,25D													
TPU10X1,5D													

Items marked by a dot are standard products.

For non standard items minimum order quantities are applicable.

Part No.	Natural	Red	Blue	Green	Black	Brown	Yellow	Orange	Grey	Purple	Pink	White	Silver
N3x0.60	●		●		●								
N4x0.65	●		●		●								
N4x1	●		●		●								
N5x1	●		●		●								
N6x1	●		●		●								
N8x1	●		●		●								
N8x1.25	●		●		●								
N10x1	●		●		●								
N10x1.25	●		●		●								
N10x1.5	●		●		●								
N12x1	●		●		●								
N12x1.5	●		●		●								
N12x1.75													
N14x1.5	●		●		●								
N16x1.5													
N16x2													
N22x2.5													
2x022N													
2x025N													
3x025N													
4x030N													
4x040N													
5x031N													
6x055N													
6x062N													
8x062N													
10x062N													
12x078N													
L4x1													
L6x1													
L8x1													
L10x1													
L12x2													
L16x2													
2x022L													
4x040L													
6x062L													
8x062L													
8x080L													
10x080L													

Single line tubing PVC sheathed



For applications where the tubing requires additional protection from abrasion or the environment.

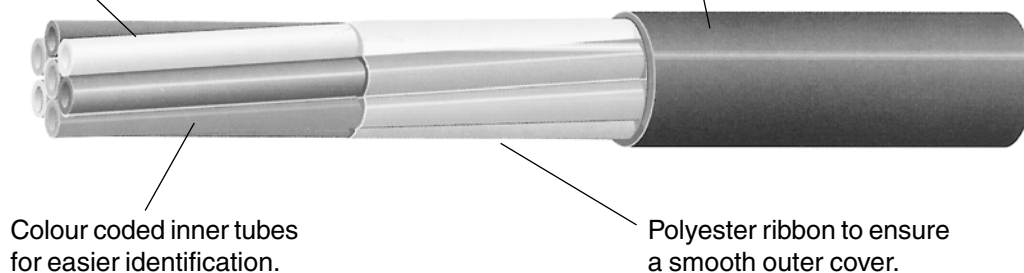
The standard product has a natural coloured core tube with a black PVC sheath. Other colour combinations are available on request.

Tube bundles

for maximum safety and minimum installation work

Helically wound inner tubes
for maximum flexibility.

PVC sheath for protection
against damage.



Parker tube bundles are a high-quality thermoplastic product designed specifically for process control and monitoring applications.

Parker tube bundles are excellent for use in hydraulic and pneumatic systems.

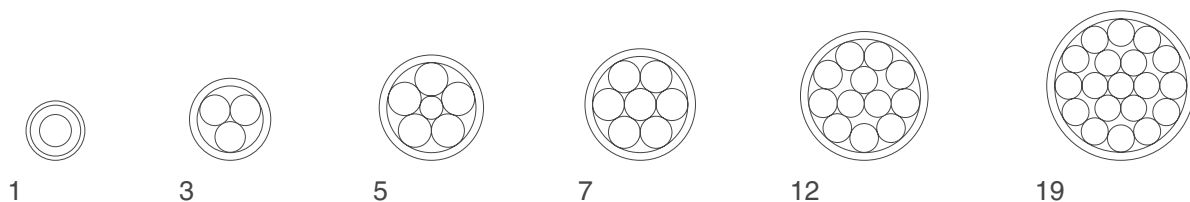
The PVC coat protects the product against mechanical and chemical damage.

The combination of different tube materials in a **Parker** tube bundle allows their application in almost all industrial areas.









Each tube can be easily and quickly identified by its colour and position within the helically wound bundle. The single tubes are marked in intervals of max. 500 mm as standard.

In addition to the standard range (STS), extra thick sheath (ETS), and steel wire armour (SWA) constructions are also available.

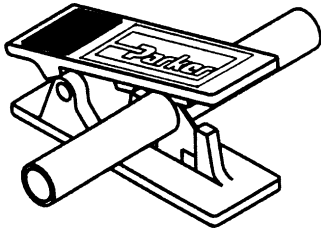
Standard configurations are available in lengths of max. 1000 m.



Technical details and packaging information

Configuration	Part No. #	Thickness of Sheath mm	Nominal O.D. mm	Min. Bend Radius mm 	Weight kg/100m 	100m Coil Dimensions Dia x Width mm	Standard Length m
	P01N4X0.65STS	1.0	6.0	20	3.1	400 x 80	100
	P01N6X1STS	1.0	8.0	30	4.9	500 x 80	100
	P01N8X1STS	1.0	10.0	40	6.6	700 x 80	100
	P01N8X1.25STS	1.0	10.0	35	7.1	700 x 80	100
	P01N10X1STS	1.0	12.0	60	8.0	700 x 80	100
	P01N10X1.25STS	1.0	12.0	60	8.9	700 x 80	100
	P01N12X1STS	1.0	14.0	85	9.8	700 x 150	100
	P01N12X1.5STS	1.0	14.0	60	11.3	700 x 150	100
	P01N14X1.5STS	1.0	16.0	75	13.3	700 x 150	100
	P03N4X0.65STS	2.0	13.0	65	13.0	700 x 150	100
	P03N6X1STS	2.0	17.0	90	19.0	700 x 150	100
	P03N8X1STS	2.0	22.0	105	25.0	850 x 280	100
	P05N4X0.65STS	2.0	15.0	75	16.0	700 x 150	100
	P05N6X1STS	2.0	20.0	105	26.0	800 x 280	100
	P05N8X1STS	2.5	27.0	135	41.0	950 x 300	100
	P07N4X0.65STS	2.0	16.0	80	19.0	700 x 150	100
	P07N6X1STS	2.0	22.0	115	32.0	850 x 280	100
	P07N8X1STS	2.5	29.0	150	48.0	950 x 320	100
	P12N4X0.65STS	2.0	21.0	105	27.0	850 x 280	100
	P12N6X1STS	2.0	29.0	150	48.0	1000 x 300	100
	P12N8X1STS	2.5	38.0	185	70.0	1100 x 320	100
	P19N6X1STS	2.5	35.0	180	72.0	1100 x 320	100

Plastic tube cutter



An easy to handle razor/edged tube cutter, assuring clean and square cuts.
May be used with polyethylene, polypropylene, nylon and other plastic tubing.

Part Number: **PTC**

Replacement blades: **PTC-001-RB**

Dismantling tool for single line tubing PVC sheathed

The HEXACUT tool provides a safe and clean cut avoiding any damages to the Polyamide inner core tube. A solid casing and quick and easy handling makes it an efficient tool.





Part No. #	Related Prestoweld tube
HEXACUT14/4	P01N4x0.65STS P01N14x1.5STS
HEXACUT8/6	P01N6x1STS P01N8x1STS P01N8x1.25STS
HEXACUT12/10	P01N10x1.25STS P01N12x1STS P01N12x1.25STS

FEP, PFA and TFE tubing





Safety factor: 3:1

Standard length: 100 m





FEP tubing Temperature range: -200 °C up to +200 °C

Part No. #	Tube O.D. x wall thickness in mm 	Maximum working pressure in MPa psi at +23°C 		Minimum bend radius mm 	Weight g/m 
FEP 4 x 1	4 x 1	2.7	390	20	20.0
FEP 6 x 1	6 x 1	1.6	230	30	33.3
FEP 8 x 1	8 x 1	1.1	160	40	46.6
FEP 10 x 1	10 x 1	0.9	130	60	59.9
FEP 12 x 1	12 x 1	0.7	100	85	73.3

PFA tubing Temperature range: -200 °C up to +260 °C

Part No. #	Tube O.D. x wall thickness in mm 	Maximum working pressure in MPa psi at +23°C 		Minimum bend radius mm 	Weight g/m 
PFA 4 x 1	4 x 1	2.7	390	20	20.0
PFA 6 x 1	6 x 1	1.6	230	30	33.3
PFA 8 x 1	8 x 1	1.1	160	40	46.6
PFA 10 x 1	10 x 1	0.9	130	60	59.9
PFA 12 x 1	12 x 1	0.7	100	85	73.3

TFE tubing Temperature range: -200 °C up to +260 °C







Part No. #	Tube O.D. x wall thickness in mm 	Maximum working pressure in MPa psi at +23°C 		Minimum bend radius mm 	Weight g/m 
TFE 4 x 1	4 x 1	2.7	390	20	20.5
TFE 6 x 1	6 x 1	1.6	230	30	34.2
TFE 8 x 1	8 x 1	1.1	160	40	47.8
TFE 10 x 1	10 x 1	0.9	130	60	61.5
TFE 12 x 1	12 x 1	0.7	100	85	75.2

Correction factors for working pressures at higher temperatures

Temperature °C	Correction factor
50	0.87
75	0.77
100	0.68
150	0.53
200	0.39
250	0.28

prestoweld 2 Polyurethane tubes – weld spark resistant

prestoweld 2 tubing is made of weld spark resistant Polyurethane and therefore the ideal solution for water and air supply of welding robots. **prestoweld 2** guarantees a simple, fast and reliable assembly without additional tools.

Part number #	Inside Diameter mm 	Outside Diameter mm 	Max. Working Pressure at 23 °C MPa psi 		Min. Burst Pressure MPa psi 		Min. Bend Radius mm 	Weight g/m 
PWPU 4x1	2.0	4.0	2.8	406	8.4	1,218	8	12.0
PWPU 6x1	4.0	6.0	1.6	232	5.0	725	15	20.0
PWPU 8x1,5	5.0	8.0	1.9	276	5.8	841	16	38.9
PWPU 8x2	4.0	8.0	2.8	406	8.4	1,218	16	47.9
PWPU 10x2	6.0	10.0	2.1	305	6.3	914	21	63.9
PWPU 12x2	8.0	12.0	1.6	232	5.0	725	30	79.9
PWPU 14x2	10.0	14.0	1.6	232	4.2	609	47	95.8

Correction factors for burst and working pressures at higher temperatures

Temperature °C	Correction factor
-30 to +23	1.00
+40	0.77
+60	0.56
+80	0.46
+90	0.42

For **prestoweld 2** push-in fittings refer to Pneumatic connectors handbook 0093-GB

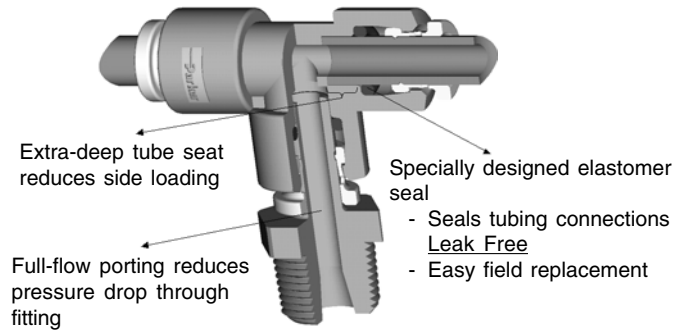
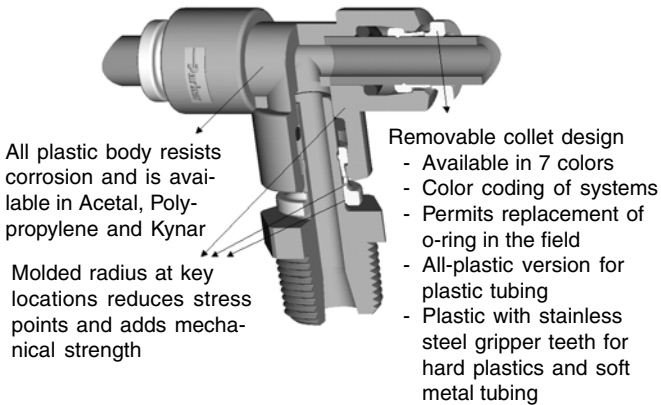
M – TrueSeal™ Fittings

TrueSeal™ Thermoplastic Push-In Fittings	M2
Fittings Overview	M3 - M4



TrueSeal™ Thermoplastic Push-In Fittings

The patented Parker TrueSeal™ push to connect thermoplastic fittings are light weight, reusable, and connect to plastic tubing without the use of tools.



Standard Materials

Material	Fitting Colour	O-Ring
Acetal	Grey	Nitrile
Polypropylene	White	EPDM
Kynar®	Natural	Viton

BSPT and BSW end configurations are only available made of Acetal.

Working Pressures

TrueSeal fittings are rated for the pressures listed below or at 1/4 (one-fourth) of the rated burst pressure of the tubing being used (whichever is less). One-half inch fittings with metal gripper collets are rated at 3.3:1 burst safety factor.

Fitting Size	Acetal	Polypropylene	Kynar®
3/16"	300 psi		
1/4"	300 psi	150 psi	300 psi
5/16"	300 psi		
3/8"	300 psi	150 psi	300 psi
1/2"	250 psi		
Temp. Range	-20 °F (-29 °C) to +180 °F (85 °C)	0 °F (-18 °C) to +255 °F (110 °C)	0 °F (-18 °C) to +275 °F (135 °C)

These pressure ratings are based on tests conducted with Series NR tubing at 73 °F. Actual working pressures may be lower at elevated temperatures. Consult Parker.

Ordering key

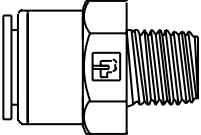
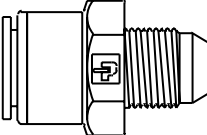
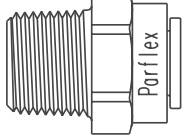
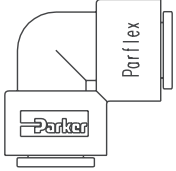
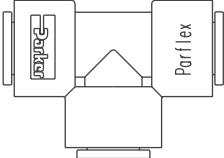
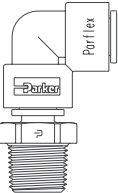
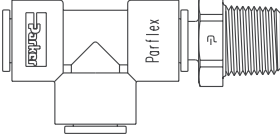
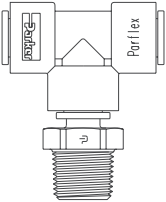
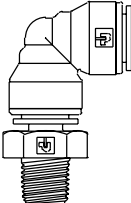
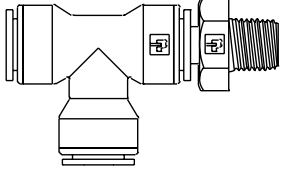
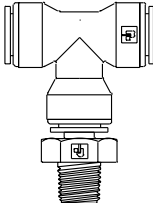
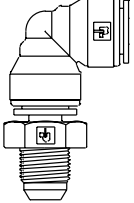
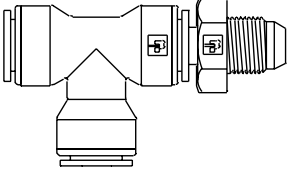
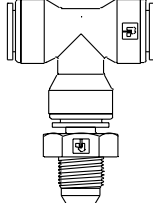
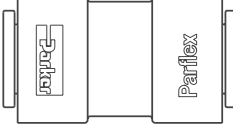
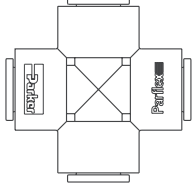
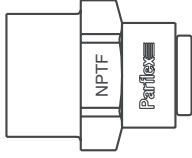
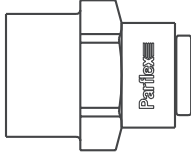
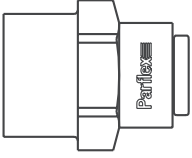
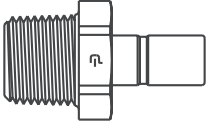
Examples: **A 4 MC 4 (-MG)**

Fitting body material: A = Acetal
 PP = Polypropylene
 F = Kynar (PVDF)

Tube O.D. in 1/16 inch: 4
 Body style: MC
 End termination size: 4
 "MG" = Metal Gripper Collet

TrueSeal fittings are used in a number of different industries, in the Beverage and Soft Drink industry, they find extensive use because they are suitable for potable water, beers, syrups and other foodstuffs, as well as for mixed gases and CO₂ lines. Parker's range of TrueSeal fittings is complemented by tubing and hoses for Drink Dispense systems.

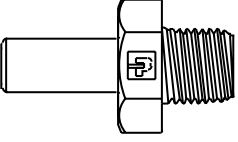
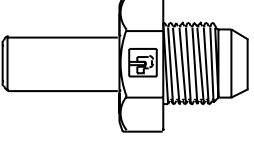
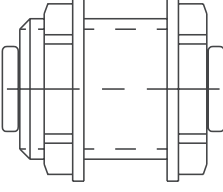
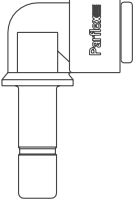
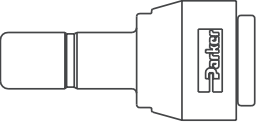
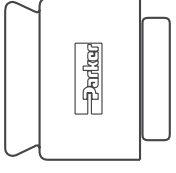
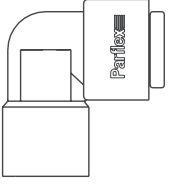
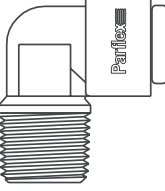
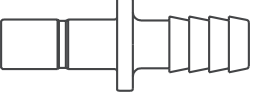
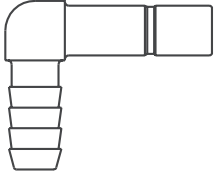
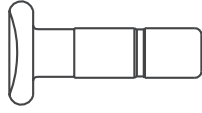

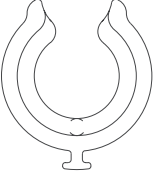
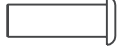
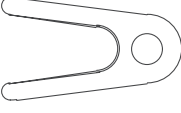
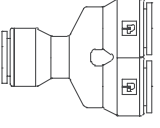
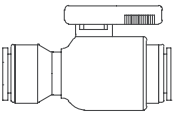
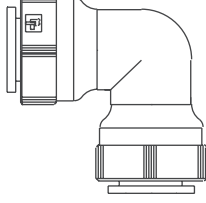
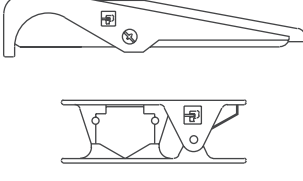
Fittings Overview

Fittings Overview			
			
TC - Male Connectors BSPT	WC - Male Connectors BSW	MC - Male Connectors NPTF	EU - Elbow Union
			
TU - Tee Union	MES - Male Elbow Swivel NPTF	MRS - Male Run Swivel NPTF	MTS - Male Tee Swivel NPTF
			
TES - Male Elbow Swivel BSPT	TRS - Male Run Swivel BSPT	TTS - Male Tee Swivel BSPT	WES - Male Elbow Swivel BSW
			
WRS - Male Run Swivel BSW	WTS - Male Tee Swivel BSW	UC - Union Connector	CU - Cross Union
			
FC - Female Connector NPTF	FA - Tap Adaptor UNS-2B	FF - Female Flare UNF-2BT	TMC - Tube Stem Adaptor

For details please refer to catalogue 4464 (Extrudit)



TrueSeal™ Fittings
Fittings Overview

Fittings Overview			
			
TTC - Tube Stem Adaptor BSPT	TWC - Tube Stem Adaptor BSW	BU - Bulkhead Union	TEU - Tube Elbow Union
			
RD - Tube Reducer	CAP - Tube Cap	FE - Female Elbow NPTF	ME - Male Elbow NPTF
			
TCB - Tube To Barb Connector	TEB - Tube To Barb Elbow	TPL - Plug	TSC - Cartridge Insert
			
SC - Safety Clips	TS - Tube Supports	Quick Release Tool	WY - Y Connector
			
VUC - Ball Valve Union Connector	AquaSeal 15 mm Connections	Cutters page L10	

For details please refer to catalogue 4464 (Extrudit)

N - Accessories

Selection Guide for Parker Spring Guards and Armour Guards	N2
Bulk Steel Spring Guards	N3
Special Cut-to-length Spring Guards	N3
High Pressure Safety Guard Kit	N4
Parflex CNG Hose Guard Kit	N4
PVC-S – Anti-Abrasion Sleeve	N5
HS – Containment Grips	N5
KNH – Anti-kink Sleeve	N6
Tape	N6

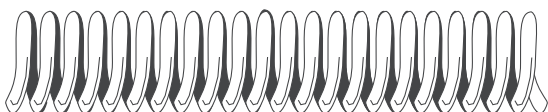


Selection Guide for Parker Spring Guards and Armour Guards

Parker hose guards prolong the life of hoses that are exposed to rugged operating conditions. In addition to protecting the hose from abrasion and cutting, they distribute the bending radii to help prevent kinking.

Hose Style	Armour Guards/Spring Guards								
	55AG-3 55SG-3	55AG-4 55SG-4	55AG-5 55SG-5	55AG-6 55SG-6	55AG-8 55SG-8	55AG-12 55SG-12	55AG-16 55SG-16	58AG-12 58SG-12	58AG-16 58SG-16
510A/510C/518C	-2, -3	-4	-5	-6	-8	-12	-16		
520N/528N	-2	-4	-5	-6	-8				
540N	-2, -3	-4	-5	-6	-8	-12			
550H/55LT	-2, -3	-4	-5	-6	-8	-10, -12	-16		
575X	-3	-4		-6	-8		-12		
580N/588N				-4	-6	-8, -10		-12	-16
573X/573XL	-3								-16
590	-3	-4		-6	-8	-10		-12	-16
GPH	-3	-4, -5	-5	-6	-8	-10, -12	-16		
515H	-3, -4	-5	-6		-8				

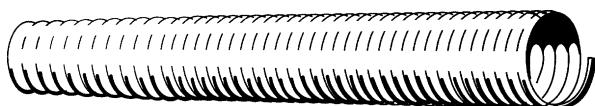
Bulk Steel Spring Guards (electroplated hard drawn-steel wire)



Part No. #	Guard I.D. mm	Standard Length m
55SG-3	11.9	7.62
55SG-4	13.9	7.62
55SG-5	15.5	7.62
55SG-6	17.0	7.62
55SG-8	21.1	7.62
55SG-12	27.7	3.05
55SG-16	34.3	3.05
58SG-12	29.9	3.05
58SG-16	38.4	3.05

For hose type please refer to selection guide page N-2.

Special Cut-to-length Spring Guards (plated, hard drawn-steel wire)



Special configurations available upon request. Contact factory

Standard

Part No. #	Guard I.D. mm	Standard Length mm
55SSG-3	11,9	127.0
55SSG-4	14.0	127.0
55SSG-5	15,5	127.0
55SSG-6	17,3	127.0
55SSG-8	21,1	127.0
55SSG-12	27,7	177.8

For hose type please refer to selection guide page N-2.

For Hose Types 2040N/2040H/2245N/2370N/2380N

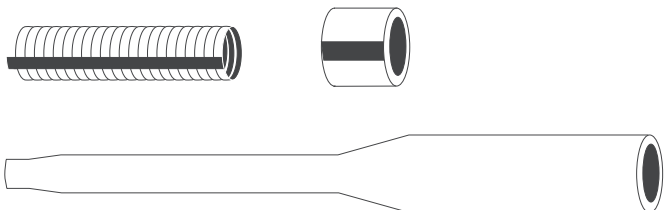
Part No. #	Hose Type			Standard Length mm
1709	2040N-02V22			100
1713,5	2040H-04	2040N-04		140
1715,5	2245N-04			160
1717	2040H-05	2040N-05	2370N-04	170
1718,5	2040H-06	2040N-06	2370N-05	200
1718,5/16	2380N-04			200
1721	2370N-06			200
1728	2040H-10			180

For CNG Hose

Part No. #	Guard I.D. mm	Standard Length mm
3PSG-2	9.9	116.8
3PSG-3	11,7	134.6
3PSG-4	13,7	158.8
3PSG-6	18.3	165.1
5PSG-4	16.0	158.8
5PSG-6	19.8	165.1
5PSG-8	22.9	165.1

High Pressure Safety Guard Kit for Parker HP®- or HP8®-Hose

Each guard kit contains two colour-coded, preassembled guards (305 mm or 585 mm) with warning tag and assembly instructions.
Colour: blue for HP® hose and orange for HP8® hose.



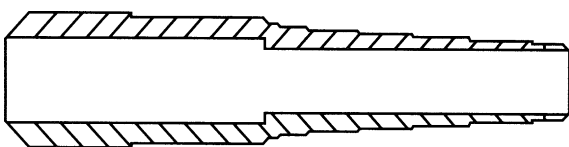
Part No. * blue #	Part No. ** orange #	Hose Size	Weight per item kg	Swage Die Part No. #
HPG3-12K	HPG3-12K-ORG	-3	0,122	80C-G03
HPG3-23K	HPG3-23K-ORG	-3	0,168	80C-G03
HPG4-12K	HPG4-12K-ORG	-4	0,145	80C-G04
HPG4-23K	HPG4-23K-ORG	-4	0,191	80C-G04
HPG6-12K	HPG6-12K-ORG	-6	0,181	80C-G06
HPG6-23K	HPG6-23K-ORG	-6	0,236	80C-G06

* for HP® hose

** for HP8® hose

Parflex CNG Hose Guard Kit

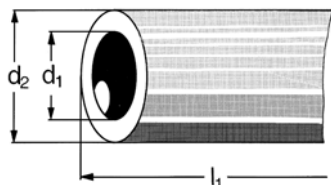
Use with Parflex CNG hose. Each guard kit contains two vinyl hose guards and warning tag.



Hose Part No. #	Hose Guard Kit Part No. #
3CNG	CNGG3-4-KIT
3CNG	CNGG3-6-KIT
3CNG	CNGG-62-KIT
4CNG	CNGG3-6-KIT
5CNG	CNGG5-3-KIT
5CNG	CNGG5-4-KIT
5CNG	CNGG5-6-KIT
5CNG	CNGG5-8-KIT
5CNG	CNGG5-12-KIT
5CNG	CNGG5-16-KIT

PVC-S – Anti-Abrasion Sleeve

Colour: yellow/nature

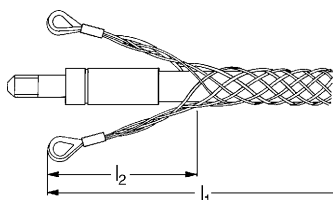


Protective Sleeve #	Clamp Ferrule	For Tubing				Diameter in mm		For Hose	Max. Mountable Length in m l1
		DN	size	mm	inch	d1	d2		
PVC-S-03	KL-03	5	-03	4.8	3/16	22	28	2640D-03	20/40
PVC-S-05	KL-05	8	-05	7.9	5/16	27	33	2640D-05	20/40
PVC-S-08	KL-08	12	-08	12.7	1/2	35	45	2640N-08	20
PVC-S-12	KL-12	20	-12	19.0	3/4	45	55	2640N-12	20
PVC-S-16	KL-16	25	-16	25.4	1	55	65	2640N-16	20
PVC-S-DN14-NATUR *	KL15-18					14	17	2420D-03V32	20
PVC-S-DN18-NATUR *	KL23-27					18	22	2640D-03V32	20

As an alternative, rubber anti-abrasion sleeves are available, colour: black

* colour: nature

HS – Containment Grips



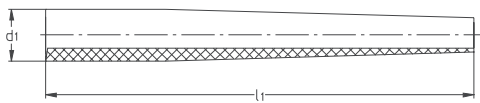
Part No. #	For Tubing				Ø mm	F-KN*	Total Length	
	DN	size	mm	inch			l1	l2
HS-03	5	-03	4.8	3/16	9-15	3/9	600	200
HS-05	8	-05	7.9	5/16	12-20	6/18	600	200
HS-08	12	-08	12.7	1/2	20-30	11/33	600	200
HS-12	20	-12	19.0	3/4	30-40	11/33	600	200
HS-16	25	-16	25.4	1	40-50	16/48	600	200

Material: electrogalvanized steel wire

* F-KN 3/9: working load 3 KN, breaking load 9 KN, e.g. DN5



KNH – Anti-kink Sleeve



Part No. #	d1	l1	For Hose Type
KNHA2106PU	24	140	2380N-04V00

Material: Polyurethane

Tape

For fixing the pressure reinforcement

Part No. #	Type	Description
8.204	Tape	for regular thermoplastic hoses with wire reinforcement where temperatures are not involved
8.207	Glass silk tape	for Teflon hoses where high temperatures are applied

O – Tooling and Workshop Equipment

KarryKrimp® 1 crimping press 82CE	02
Hand pump 82C-2HP	02
Air / Hydraulic Pump 82CE-0AP	02
Hose assembly 82C-00L	02
KarryKrimp® 2 crimping press 85CE-061	03
Hand pump 85CE-0HP	03
Turbo air pump 85C-0AP	03
Power pump 82CE-0EP	03
PHastkrimp crimping press 89CE-061	04
Parkrimp® 2 crimping press 83CE	04
Parkrimp Dies for Parflex® Hose	05
ST250 Hose Cutting Tool	06
TH4-4 Sleeve Marking Tool	06
SMM100 Hose Assembling Machine	06
TH5-3 Hose Test Rig	06



KarryKrimp® 1 crimping press 82CE

Parker's KarryKrimp® with crimping capability from DN 6 up to DN32, and SAE 100R1, 100R2, 100R7, 100R8, 100R9, and 100R14 gives you true field-crimping capability. Using Parker's patented unitized dies, (the same as Parkrimp® 1 and 2), this lightweight machine is easily carried to the job site for quick, easy field assemblies.

Complete with hand pump, hose assembly and 2 die rings
 Dimensions: H 686 mm x W 380 mm x D 305 mm
 Weight: approx. 23 kg **Part No. 82CE-061**

Press without pump
 Weight: approx. 18 kg **Part No. 82C-061**

KarryKrimp® 1 press
 Weight: approx. 16,5 kg **Part No. 82C-080**

Die rings: silver **Part No. 82C-R01**



KarryKrimp® 1 with Air Hydraulic Pump

This version has an air hydraulic pump 82CE-OAP and can be operated from all air supply points with a pressure of min. 7 bar. The combined machine and hydraulic pump have a total weight of approx. 25 kg. It is only 1,5 kg heavier than the hand pump model and is just as easy to transport.

Part No. (complete machine): 82CE-003



The following pumps can be used with the KarryKrimp® 1 crimping press.

Hand pump 82C-2HP

Working pressure: max. 70 MPa
 Dimensions: L 530 mm x W 121 mm x H 178 mm
 Weight: 4,1 kg
 Hydraulic oil: H-LP32 - 1,2 l
 Leverforce: 53 kg
Part No.: 82C-2HP



Air / Hydraulic Pump 82CE-0AP

Working pressure: max. 70 MPa at 6 to 8 bar
 Connection: Hydr. 3/8-18NPTF thread
 Air 1/4-18NPTF thread
 Dimensions: L 395 mm x W 148 mm x H 145 mm
Part No.: 82CE-0AP



Hose assembly 82C-00L

Hose assembly to connect either hand pump or air-hydraulic pump to the press.

Length: 1830 mm
 Port size: 1. 3/8-18NPT male
 2. Coupling 3/8"
 Working pressure: max. 700 bar
Part No.: 82C-00L

KarryKrimp® 2 crimping press 85CE-061

KarryKrimp® 2 is portable, compact and ruggedly built. You have everything you need to crimp hoses from DN 6 to DN32. Model 85C-061 includes crimping machine, take-apart stand, die rings and connection hose with quick coupling.

For Parker hose with textile and steel wire reinforcements up to 4SP DN 32 and 4SH/100 R13 up to DN 25.

Complete with hose assembly and quick coupling, 2 die rings and take-apart stand.

Dimensions (with stand):

H 762,0 mm x W 355,6 mm x J 381,0 mm

Weight: ca. 46 kg

Part No.: **85CE-061**



The following pumps can be used with the KarryKrimp® 2 crimping press.

Hand pump 85CE-0HP

Working pressure: max. 70 MPa

Dimensions: L 539 mm x W 417 mm x H 151 mm

Weight: 11,6 kg

Tank capacity: 2294 ccm

Lever Force: 55 kg

Part No.: **85CE-0HP**



Turbo air pump 85C-0AP

Working pressure: 70 MPa

Dimensions: L 320 mm x W 320 mm x H 480 mm

Weight: 8,4 kg

Tank capacity: 662 ccm

Compressed-air supply: 1/4-18NPTF thread

Part No.: **85C-0AP**



Power pump 82CE-0EP

Working pressure: 70 MPa with 3/2 hand valve

Dimensions: L 320 mm x W 320 mm x H 480 mm

Weight: 12 kg

Tank capacity: 2000 ccm

Connection: single phase / 230 V

Part No.: **82CE-0EP**



Note: All pumps also suitable for KarryKrimp® 82C-061.



PHastkrimp crimping press 89CE-061

For Parker hose with textile and steel wire braids as well as spiral steel wire layers up to DN 32. With hydraulic device and base frame, but without dies.

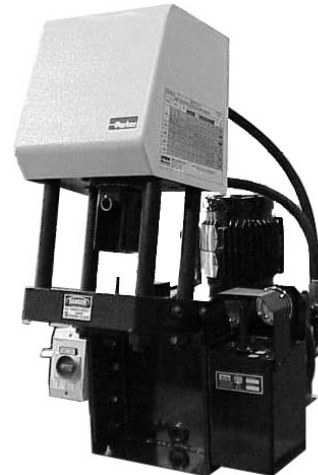
High crimping rate.

PHastkrimp crimping press with two die rings (silver and black)

Part No. 89CE- 061

Technical Details

Electrical power: 400 V / 16 A
Dimensions: H 1477 mm x W 866 mm x D 1298 mm
Weight: 249 kg



Parkrimp® 2 crimping press 83CE

For Parker hose with textile and steel wire braids as well as spiral steel wire layers up to DN 50. With hydraulic device and base frame, but without dies.

Complete machine with power unit, but without die sets.

Bench mounted.

Electrical power: 380 / 420 V - 3,0 KW - 50Hz
Electrical connection: 16 A
Dimensions: H 1130 mm x W 490 mm x D 820 mm
Weight: Packed: 392 kg
Unpacked: 342 kg

Part No. 83CE- 083

Power unit

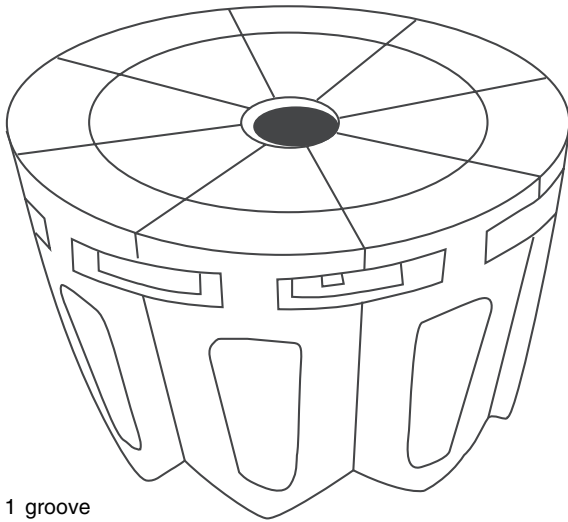
Part No. 83CE- 380



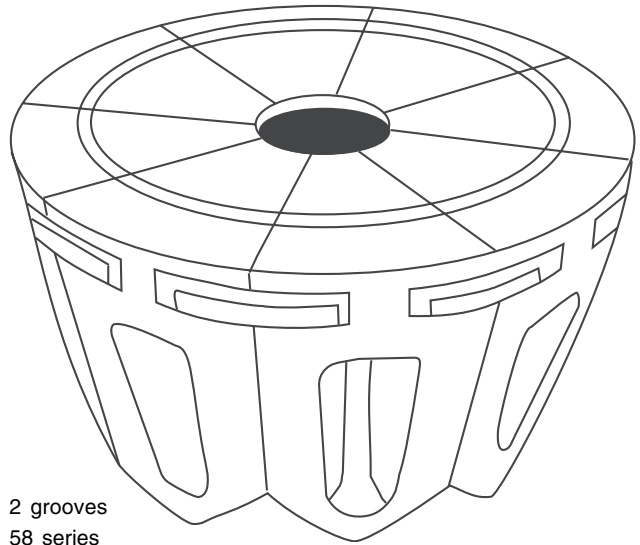
Parflex® Parkrimp® Dies

Parflex® Parkrimp® dies are specifically engineered for Parflex® hose. The die segments are linked together, and each die is well defined with identification grooves to indicate the fitting series. Also, the dies are colour coded to specify the fitting size. These dies are for use with the Parker ParkKrimp® and KarryKrimp® units.

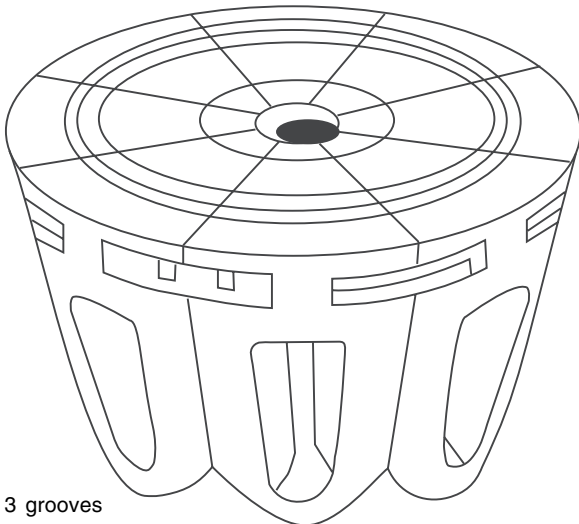
Note: Parflex® dies have been designed for use with the silver die ring.



1 groove
55 series / 56 series



2 grooves
58 series



3 grooves
91N, 93N series

Parkrimp® silver die ring

Part No.:
80C-R01

KarryKrimp® silver die ring

Part No.:
82C-R01

Used with all Parflex® hoses.

Note: See Swage and Crimp Die Selection Chart for proper crimp or swage die part number, crimp diameter on pages P22 - P25

ST250 Hose Cutting Tool

The polyflex® ST 250 hose cutting tool is used for cutting off hose with metal or fibre reinforcement (up to six spiral layers) up to size DN 25.

Part No.:

ST250 Hose cutting tool with circular blade



TH4-4 Sleeve Marking Tool

The polyflex® TH4-4 is for the permanent marking of hose assemblies or the crimp ferrule of the hose fitting. The standard model includes the table top device with base plate, height adjustable handwheel, fixable type holder, and a letter case with hardened steel type.

Part no.:

TH4-4 Embossing tool with type holder (for one row of type) and letter case.

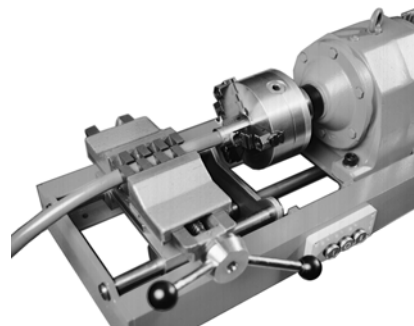


SMM100 Hose Assembling Machine

The polyflex® SMM 100 hose assembly machine facilitates the attachment of fittings. The standard model includes electrical cabinet, foot switch, and safety three-segment chuck. The SMM 100 is suitable for fittings up to size DN 32.

Part No.:

SMM100Hose assembly machine with three-segment chuck.



TH 5-3 Hose Test Rig

This workshop test rig is used for static pressure testing of hose assemblies ready for installation. Its test pressure ranges from 12 to 145 MPa. Almost all standard fittings can be tested.

Part No.:

TH 5-3 Hose Test Rig



Test rigs for higher pressures on request

P – Technical and Design Information

Selection, Installation, and Maintenance of Hose and Hose Assemblies P2

Flow Capacity Nomogram P3

Chemical Resistance P4 - P8

Reusable Hose Fittings Assembly Procedures P9

Karrykrimp Fitting Assembly Procedures P12

Parkrimp II Fitting Assembly Procedures P16

Assembly Instructions for Push-Lok® Self-Grip Hose P21

Selection Charts for Crimp Diameter and Tools for Parflex® Hose P22 - P24

Choosing the Correct Length..... P25

Installation Tips P26

Unit Conversion Table P27



Selection, Installation, and Maintenance of polyflex® / Parflex® Hose and Hose Assemblies

Hose and hose assemblies have a finite life span and many factors can reduce this time. This recommended practice should be read by designers and users of hose to assist them in the proper selection of hose. These guidelines, while not exhaustive, will assist the user in maintaining hydraulic and pneumatic systems.

READ THE PARKER SAFETY GUIDE CONTAINED IN THIS CATALOGUE IN ITS ENTIRETY.

PART 1 - HOW TO SELECT HOSE

- **Pressure** - Maximum operating pressure of the hose must be greater than or equal to the system pressure. Pressure surges or system “spikes” in excess of the maximum operating pressure will shorten hose life and must be avoided.
- **Temperature** - Ambient and fluid temperatures must not exceed the hose/fittings rated design temperature. Attempt to route hose or shield hose from high temperature sources.
- **Size** - Adequately size hose and fittings to avoid damaging hose with excessive turbulence, or heat build-up, while maintaining proper flow and pressure. (Refer to fluid velocity nomogram.)
- **Fluid Resistance** - Refer to Chemical Resistance Guide in this catalogue for use of fluids with various materials. If unsure of an application, contact the factory.
- **Environment**- Conditions such as ozone, UV light, harsh chemicals, salt water, and other airborne contaminants can degrade hose and shorten its life.
- **Length** - Hose length changes with pressure. This, along with equipment movement, must be considered in the system design.
- **Proper couplings** - Always follow manufacturers specifications and do not mix components of different manufacturers.
- **Mechanical loads** - Conditions such as tensile and side loads, vibration, excessive flexing, and twist will reduce hose life. Use swivel fittings and adaptors to avoid hose twisting. Test the hose if the application is potentially problematic or unusual.

PART 2 - INSTALLATION AND MAINTENANCE

- **Inspect components** - Check hose for cover cracks, blisters, cleanliness, kinks, cracks or core tube obstructions or other defects. Examine fittings for poor threads, obstructions, cracks, rust. Do not use hose or fittings if these problems exist.
- **Assemble per instructions contained in this catalogue.**
- **Do not exceed specified minimum bend radius** - Use stress relievers to prevent sharp bends at the hose and fitting juncture. These can be spring guards or other stress relieving members.
- **After installation, eliminate air entrapped in system, pressurise to maximum operating pressure, and check for leaks and proper system function.**
- **After installation, periodically (frequency depends on severity of application and potential risk) inspect the system for the following:**
 1. Blistered, degraded, or loose hose covers.
 2. Stiff, cracked, or charred hose.
 3. Cuts or abrasion of hose. Look for exposed reinforcement.
 4. Leaks in hose or fittings.
 5. Damaged or corroded fittings.
 6. Excessive build up of dirt, grease, oils, etc.
 7. Defective or broken accessories (clamping devices, kink guards)
 8. Kinks in hoses.

Upon discovery of any of these items, replace it.

DO NOT IGNORE IT!

- **Retest the system after all maintenance procedures.**
- **Establish replacement schedules based on previous service life, or when failures could result in damage, personal injury, excessive or unacceptable downtime.**

Flow Capacity Nomogram

Flow capacities of Parker hose at recommended flow velocities

The chart below is provided as an aid in the determination of the correct hose size.

Example:

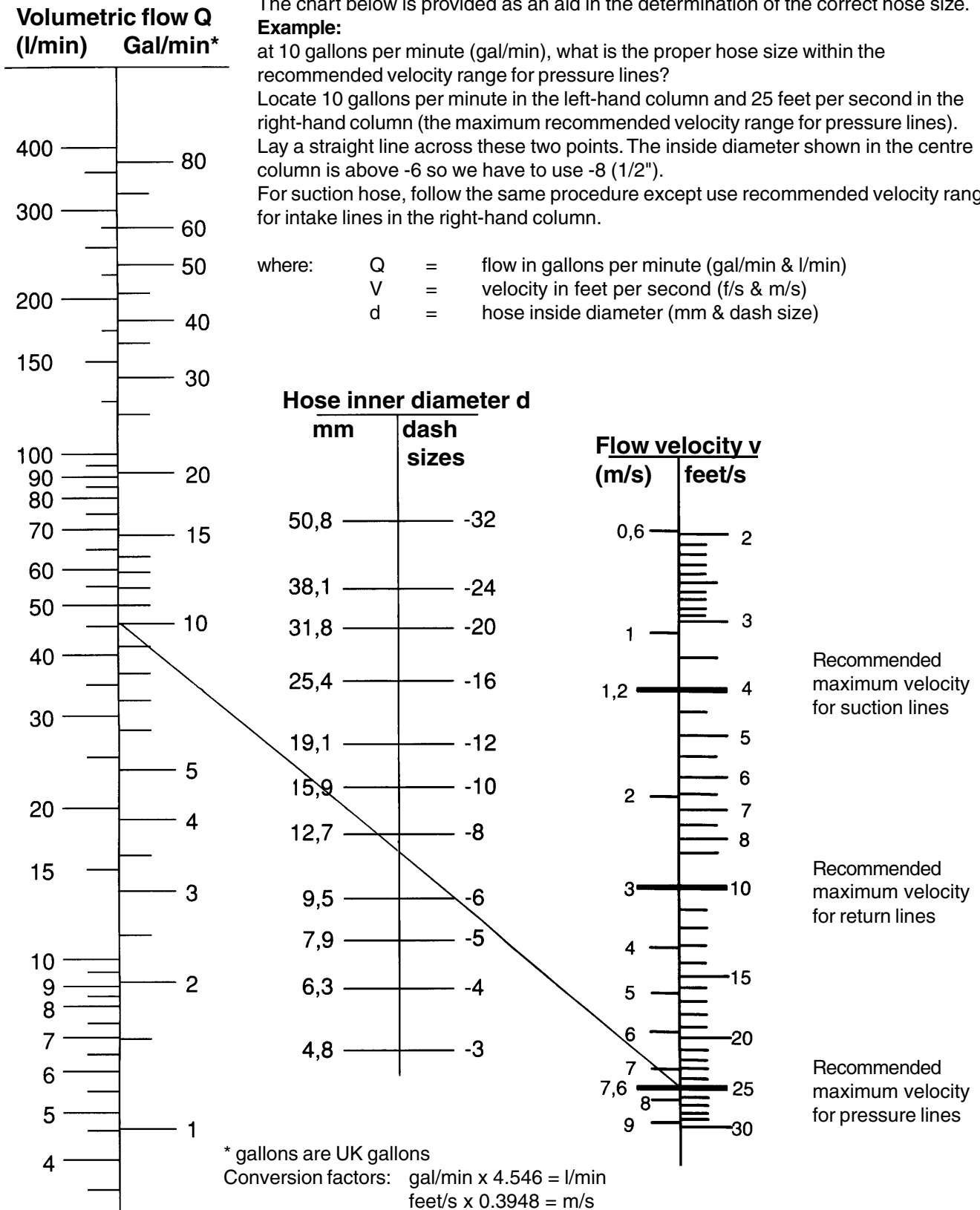
at 10 gallons per minute (gal/min), what is the proper hose size within the recommended velocity range for pressure lines?

Locate 10 gallons per minute in the left-hand column and 25 feet per second in the right-hand column (the maximum recommended velocity range for pressure lines).

Lay a straight line across these two points. The inside diameter shown in the centre column is above -6 so we have to use -8 (1/2").

For suction hose, follow the same procedure except use recommended velocity range for intake lines in the right-hand column.

where: Q = flow in gallons per minute (gal/min & l/min)
 V = velocity in feet per second (f/s & m/s)
 d = hose inside diameter (mm & dash size)



* Recommended velocities are according to hydraulic fluids of maximum viscosity 315 S.S.U. at 38 °C working at roomtemperature within 18 ° and 68 °C.

Technical and Design Information

Chemical Resistance

Ratings Code

G - Good to excellent. Little or no swelling, tensile or surface changes. Preferred choice.

L - Marginal or conditional. Noticeable effects but not necessarily indicating lack of safety. Further testing suggested for specific application.

P - Poor or unsatisfactory. Not recommended without extensive and realistic testing.

– -Indicates that this was not tested.

Material Code for Hose Core Tubes		polyflex® / Parflex® Part Numbers
H	Polyester elastomer	2040H, 2370H, 515H, 518B, 518C, 550H, 558H, 55LT, 560, 590, 593, 1202LT
N	Polyamide	2010N, 2020N, 2X20N, 2040N, 2244N, 2245N, 2370N, 2440N, 2380N, 2640N, 520N, 540N, 573X, 573XL, 575X, 580N, 588N, HP, HP8
PV	Polyvinylchloride (PVC)	GPH
NC	Nylon co polymer	510A, 515A
TFE	Polytetrafluorethylene (PTFE)	2030T, 2033T, 919, 929, 939/939B, 919U
POM	Polyoxymethylene	2440D, 2640D
Material Code for Hose Covers		
U	Polyurethane	2010N, 2040N, 2040H, 2244N, 2245N, 2370H, 2370N, 2380N, 510, 830, 838, 515A, 515H, 510A, 518B, 540N, 550H, 558H, 560, 520N, 580N, 588N, 590, 593, HP, HP8, 919U
HF	Special elastomer	55LT, 1202LT
PV	Polyvinylchloride (PVC)	GPH
H	Polyester elastomer	2040N
PFX	Special elastomer	518C
N	Polyamide	2010N, 2020N, 2X20N, 2440D, 2440N, 2640D, 2245N, 2244N
Material Code for Sealing Components		
V	FKM O-rings	

Notes on the Chemical Resistance Table

- (1) The fluid resistance tables are simplified rating tabulations based on immersion tests at 24° C. Higher temperatures tend to reduce ratings. **Since final selection depends on pressure, fluid and ambient temperature and other factors not known to Parker Hannifin, no performance guarantee is expressed or implied.** The indications do not imply any compliance with standards and regulations and do not refer to possible changes of colour, taste or smell. For food and drinking water specially approved materials have to be used. For fluids not listed or for advice on particular applications, please consult Parker Hannifin GmbH, Polyflex Division in Hüttenfeld, Germany.
- (2) Hose applications for these fluids must take into account legal and insurance regulations. The chemical resistance indicated does not express or imply approval by certain institutions.
- (3) Satisfactory at some concentrations and temperatures, unsatisfactory at others.
- (4) For gas applications, the cover should be pin-pricked and the pressure must not be released quickly. Special safety guard accessories are to be used to prevent damage or personal injury in the event of failure..
- (5) Chemical resistance does not imply low permeation rates. Please consult Parker Hannifin for a recommendation for your specific requirements.
- (6) The indication of chemical resistance does not imply any special food compatibility; it refers only to the chemical resistance of the material.
- (7) Chemical resistance does not imply acceptability for use in airless paintspray applications. These applications require a special, electrically conductive hose.

Technical and Design Information
Chemical Resistance

Chemical	H	N	U/HF	V	NC	O	OC	PFX	HFR	FEP	TFE	POM
Acetaldehyde	G	L	L	P	-	L	P	L	G	G	G	-
Acetic Acid Glacial	L	L	L	G	P	G	L	L	L	L	G	-
Acetone	L	G	P	P	G	P	P	P	L	G	G	L
Acetylene	-	-	-	-	-	-	-	-	-	-	-	-
Air (4)	G	G	G	G	G	G	G	G	G	G	G	G
Ammonium Chloride	G	P	G	G	P	G	G	G	G	L	G	-
Ammonium Hydroxyde	L	G	P	L	-	G	G	P	L	G	G	-
Anhydrous Ammonia	P	P	P	P	P	P	P	P	P	-	P	-
Aniline	P	P	P	P	P	L	P	P	P	G	G	-
Animal Oils (6)	G	G	G	G	G	P	P	G	G	-	G	-
Aromatic Hydrocarbons	L	G	L	P	G	P	-	L	L	-	G	-
Asphalt	G	G	G	G	G	L	L	G	G	L	G	-
Baygon (insecticide)	L	G	P	-	-	-	-	P	L	-	G	-
Beer	G	G	G	G	-	G	G	G	G	G	G	-
Benzene	L	G	L	P	L	P	P	L	L	G	G	-
Brake Fluid (DOT #3)	-	G	P	P	-	P	P	P	-	-	G	L
Butane (2) (4)	G	G	L	L	P	L	P	L	G	-	-	-
Butter (6)	G	G	G	G	-	G	G	G	G	-	G	-
Calcium Chloride	G	-	G	L	-	G	G	G	G	G	G	-
Carbon Dioxide (4)	G	G	G	G	G	G	G	G	G	-	-	-
Carbon Monoxide (4)	G	-	G	G	-	L	-	G	G	-	-	-
Carbon Tetrachloride	L	G	P	L	G	P	P	P	L	G	G	-
Castor Oil	G	L	L	G	L	P	P	L	G	-	G	-
Chlordane (insecticide)	L	G	P	-	-	-	-	P	L	-	-	-
Chlorinated Hydrocarbon Base Fluids	L	G	L	P	-	-	-	L	L	-	G	-
Chlorinated Petroleum Oil	G	G	L	-	L	-	-	L	G	-	-	-
Chlorinated Solvents	P	-	P	L	-	L	L	P	P	-	G	-
Chlorine, Gaseous, Dry	P	P	P	G	P	L	P	P	P	-	-	-
Chloroform	P	P	P	P	P	P	P	P	P	G	G	-
Chromic Acid	P	-	P	G	P	-	L	P	P	L	G	-
Citric Acid Solutions	G	G	L	G	G	G	G	L	G	G	G	-
Crude Petroleum Oil	G	G	G	G	G	P	P	G	G	-	G	G
Cyclohexane (2)	G	G	G	-	-	P	P	G	G	G	G	-
Cygon (insecticide)	L	G	P	-	-	-	-	P	L	-	-	-
Diazion (insecticide)	L	G	P	-	-	-	-	P	L	-	-	-
Diesel Fuel (2)	G	G	G	L	G	P	P	G	G	-	G	G
Diester Oils	L	G	P	P	-	P	P	P	L	-	G	-
Enamels	G	G	G	L	-	L	L	G	G	-	G	-
Ethanol (6)	G	G	L	L	L	G	G	L	G	-	G	G
Ethers	L	G	P	L	G	L	P	P	L	G	G	P
Ethylene Glycol	G	G	L	G	G	G	G	L	G	G	G	G
Ethylene Oxide	G	G	L	P	-	L	L	L	G	-	-	-
Fatty Acids	G	G	-	G	G	L	L	-	G	G	G	-
Formaldehyde	L	L	P	L	L	G	L	P	L	G	G	-
Formic Acid J	P	P	P	G	P	G	G	P	P	G	G	-

P

Technical and Design Information
Chemical Resistance

Chemical	H	N	U/HF	V	NC	O	OC	PFX	HFR	FEP	TFE	POM
Freon 12 (5)	P	G	L	G	G	L	-	L	P	-	-	-
Freon 22 (5)	P	G	L	G	G	L	-	L	P	-	-	-
Fruit Juices	G	G	G	G	-	G	G	G	G	-	G	-
Fuel Oil (2)	G	G	L	L	G	P	P	L	G	G	G	G
Gas (Oil) (2)	G	G	G	G	G	P	P	G	G	-	G	-
Gasoline	G	G	-	P	G	P	P	-	G	G	G	-
Glue	-	-	-	-	-	-	-	-	-	-	-	-
Glycerine	G	G	L	G	G	G	G	L	G	G	G	-
Glycols (to 1350 °F)	G	G	L	G	G	-	-	L	G	G	G	G
Grease (petroleum base)	G	G	G	G	G	L	L	G	G	-	G	G
Heptachlor (insecticide)	L	G	P	L	-	P	P	P	L	-	G	-
Hexane (2)	G	G	G	L	G	P	P	G	G	G	G	-
Houghto Safe-1000 Series (phosphate esters)	L	G	P	G	G	P	P	P	L	-	G	-
Houghto Safe-600 Series (hydraulic fluid)	G	G	L	G	G	G	L	L	G	-	G	-
Hydraulic Fluid (petroleum base)	G	G	G	G	G	L	L	G	G	L	G	G
Hydraulic Fluid (phosphate ester base)	L	G	L	L	G	P	P	P	L	-	G	-
Hydraulic Fluid (water glycol base)	G	G	G	L	G	-	-	G	G	-	G	-
Hydraulic Oil (petroleum base)	G	G	G	G	G	L	P	G	G	L	G	G
Hydrochloric Acid	P	L	P	L	P	L	P	P	P	G	G	-
Hydrofluoric Acid	P	P	P	L	P	L	P	P	P	G	G	-
Hydrogen, Gaseous (2) (4) (5)	G	G	G	G	G	G	G	G	G	-	-	-
Hydrolube (hydraulic fluid/water glycol base)	G	G	L	G	G	G	G	L	G	-	G	-
IRUS 902 (hydraulic fluid/water-oil emulsion)	G	G	G	G	G	L	P	G	G	-	G	-
Isocyanates (2)	L	L	L	P	-	L	P	L	L	-	G	-
Isooctane (2)	G	G	G	L	G	L	P	L	G	G	G	-
Isopropyl Alcohol	G	G	L	L	G	G	L	L	G	G	G	-
Kerosene (2)	G	G	L	L	G	L	P	P	G	G	G	-
Ketones	L	G	P	P	G	G	P	P	L	G	G	-
Lacquer Solvents	L	G	P	P	-	L	-	P	L	L	G	-
Lactic Acid	P	G	P	G	G	G	G	P	P	G	G	-
Lime (calcium oxide)	G	G	G	G	-	G	G	G	G	G	G	-
Lindol (hydraulic fluid/phosphate esters)	L	G	P	-	-	-	-	P	L	-	G	-
Linseed Oil	G	G	G	L	G	L	P	G	G	G	G	G
LP-Gas	-	-	-	-	-	-	-	-	-	-	-	-
Lubricating Oils (diester base)	L	G	P	-	G	-	-	P	L	-	G	-
Lubricating Oils (petroleum base)	G	G	G	G	G	L	P	G	G	G	G	G
Magnesium Hydroxide	L	G	L	G	-	G	G	L	L	G	G	-
Magnesium Salts	-	G	G	G	-	G	-	G	-	-	G	-
Malathion (insecticide)	L	G	P	-	-	-	-	P	L	-	G	-
Mercury	G	G	G	G	G	G	G	G	G	G	G	-
Meropa Oil (sulphur base)	G	G	-	-	-	-	-	-	-	-	G	-

Technical and Design Information
Chemical Resistance

Chemical	H	N	U/HF	V	NC	O	OC	PFX	HFR	FEP	TFE	POM
Methane	-	-	-	-	-	-	-	-	-	-	-	-
Methanol	G	G	P	P	G	L	P	P	G	-	G	-
Methoxychlor (insecticide)	L	G	P	-	-	-	-	P	L	-	G	-
Methyl Alcohol (6)	G	G	P	P	G	L	P	P	G	G	G	G
Methyl Ethyl Ketone (MEK)	L	G	P	P	G	G	L	P	L	G	G	L
Methyl Ethyl Ketone Peroxide (MEKP)	-	L	P	-	-	-	-	P	-	-	G	-
Methyl Isobutyl Ketone (MIBK)	L	G	P	P	G	L	P	P	L	G	G	-
Methylene Chloride	P	L	P	L	P	L	P	P	P	G	G	P
Milk (6)	G	G	G	G	-	G	G	G	G	G	G	-
Mineral Oil	G	G	G	G	G	L	P	G	G	G	G	G
Mineral Spirits	P	-	L	P	-	-	-	L	P	-	G	-
Motor Oils	G	G	G	G	G	-	-	G	G	G	G	-
Naphta	L	G	P	P	G	P	P	P	L	G	G	G
Natural Gas (4)	-	-	-	-	-	-	-	-	-	-	-	-
Nitric Acid	P	P	P	L	P	P	P	P	P	L	G	-
Nitrobenzene	P	G	P	P	G	P	P	P	P	G	G	-
Nitrogen, Gaseous (4) (5)	G	G	G	G	G	G	G	G	G	G	G	-
Nitrous Oxide	-	L	-	G	-	L	-	G	-	-	-	-
Oil (SAE)	G	G	G	G	G	L	L	G	G	-	G	G
Oil of Turpentine	G	G	P	G	G	P	P	P	G	-	G	-
Oleic Acid	G	G	G	L	G	L	L	G	G	G	G	-
OS 45 Type 3 Hydraulic Fluid (silicate esters)	L	G	L	P	-	P	P	L	L	-	-	-
Oxygen, Gaseous (4) (5) (6)	G	G	G	G	G	G	G	G	G	G	G	-
Ozone	L	P	L	G	P	L	G	P	L	G	G	-
Paint (Oil Base) (7)	G	G	G	P	-	L	P	G	G	-	G	-
Paint Solvents (Oil base)	L	G	L	P	-	P	P	L	L	-	G	-
Pentane (2)	G	G	L	L	-	P	P	L	G	G	G	-
Perchloric Acid	P	P	P	L	P	P	P	P	P	L	G	-
Perchloroethylene	P	P	P	L	P	P	P	P	P	-	G	L
Petroleum Ether	-	-	-	P	-	P	P	-	-	-	-	-
Petroleum Oils	G	G	G	G	G	L	P	G	G	-	G	-
Phenols	P	P	P	L	P	P	P	P	P	-	G	-
Phosphate Esters (above 135 °F)	P	G	P	P	-	P	P	P	L	-	G	-
Phosphate Esters (to 135 °F)	G	G	P	P	G	P	P	P	G	-	G	-
Polyol Esters	L	G	P	P	-	-	-	P	L	-	G	-
Potassium Hydroxide, 50%	P	P	P	L	-	L	L	P	P	G	G	-
Propane (4) (5)	-	-	-	-	-	-	-	-	-	-	-	-
Propylene Glycol	-	-	G	G	-	G	L	-	-	G	G	-
Pydraul 312C, 625 (to 135 °F)	P	G	P	P	G	P	P	P	G	-	G	-
Pydraul F-9, 150, 160 (to 135 °F)	G	G	P	P	G	P	P	P	G	-	G	-
Quintolubric 822 Fluid	-	G	G	-	-	-	-	-	-	-	G	-
Salt Water	-	-	-	-	-	-	-	-	-	G	G	-
Sevin (insecticides in water)	G	G	G	-	-	-	-	G	G	-	G	-
Silicone Greases	G	G	G	G	G	-	-	G	G	-	G	-

Technical and Design Information
Chemical Resistance

Chemical	H	N	U/HF	V	NC	O	OC	PFX	HFR	FEP	TFE	POM
Silicone Oils	G	G	G	G	G	–	–	G	G	–	G	–
Skydrol 500 & 7000	L	G	P	P	G	P	P	P	L	G	G	–
Soap Solutions	G	G	G	G	G	G	G	G	G	G	G	–
Soda Water	G	G	G	G	G	–	–	G	G	–	G	–
Sodium Borate	G	G	G	G	G	G	G	G	G	G	G	–
Sodium Carbonate	–	–	–	–	–	–	–	–	–	–	–	–
Sodium Chloride Solutions	G	G	G	G	–	G	–	G	G	G	G	–
Sodium Hydroxide, 50%	L	P	P	L	P	L	L	P	L	G	G	–
Sodium Hypochloride	L	P	P	L	–	–	–	P	L	G	G	–
Steam	P	P	P	P	P	P	P	P	P	G	G	–
Stoddard Solvent	P	G	P	L	G	P	P	P	P	G	G	–
Straight Synthetic Oils (phosphate esters)	L	G	P	P	G	–	–	P	L	–	G	–
Sulphur	G	G	G	G	–	L	G	G	G	G	G	–
Sulphur Dioxide	P	L	L	L	–	P	–	L	P	G	G	–
Sulphur Hexafluoride Gas (4) (5)	G	G	G	G	–	G	–	G	G	–	G	–
Sulphuric Acid	P	P	P	–	P	P	P	P	P	–	G	–
Toluol, Toluene	L	G	L	P	G	P	P	P	L	G	G	G
Transmission Fluid	G	G	G	P	G	–	–	G	G	–	G	–
Trichlorethylene	P	L	P	L	G	P	P	P	P	G	G	L
Trisodium Phosphate Solutions	L	G	P	G	G	G	G	P	L	G	G	–
Turpentine	G	G	L	L	G	P	P	P	G	G	G	–
Ucon (hydraulic fluid/water glycol base)	G	G	L	G	G	–	–	L	G	–	G	–
Varnish	G	G	G	P	G	G	L	G	G	–	G	G
Vinegar (6)	L	G	L	G	G	G	G	L	L	G	G	–
Water (above 60 °C) (6)	P	G	P	L	–	P	P	P	P	L	G	–
Water (to 60 °C) (6)	G	G	G	G	G	G	G	L	G	G	G	G
Water Glycols (above 60 °C)	P	G	P	L	–	P	P	P	P	–	G	–
Water Glycols (to 60 °C)	G	G	L	G	G	L	L	L	G	–	G	–
Water in oil Emulsions (above 60 °C)	P	G	P	L	–	–	–	P	P	–	G	–
Water in oil Emulsions (to 60 °C)	G	G	L	G	G	–	–	L	G	–	G	G
Whiskey, Wines (6)	G	G	L	G	G	G	G	G	G	G	G	–
Wood Oils	G	G	L	G	G	–	–	G	G	–	G	G
Xylene	L	G	P	P	G	P	P	P	L	G	G	G
Zinc Chloride	G	G	G	G	P	G	G	G	G	G	G	–

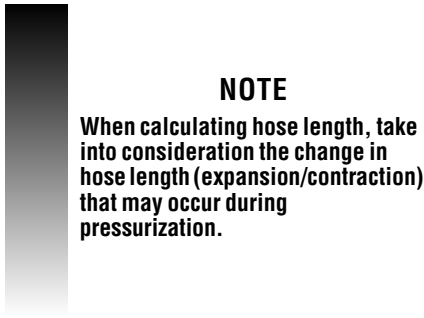
Reusable Hose Fittings Assembly Procedures

Measure and Cut Hose to Length



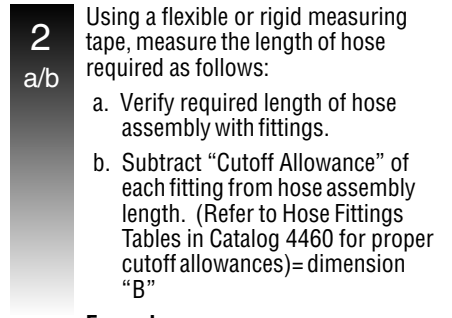
1

Verify the type and size hose printed on layline match work order.



NOTE

When calculating hose length, take into consideration the change in hose length (expansion/contraction) that may occur during pressurization.



2
a/b

Using a flexible or rigid measuring tape, measure the length of hose required as follows:

- a. Verify required length of hose assembly with fittings.
- b. Subtract "Cutoff Allowance" of each fitting from hose assembly length. (Refer to Hose Fittings Tables in Catalog 4460 for proper cutoff allowances)= dimension "B"

Example:

Hose assembly length with fittings = 500 mm

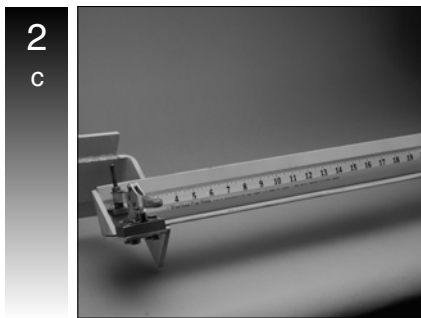
Fitting Cutoff Allowance (2C651-12-6) 36 mm

Fitting Cutoff Allowance (2D251-12-6) 34 mm

Total Cutoff Allowance 70 mm

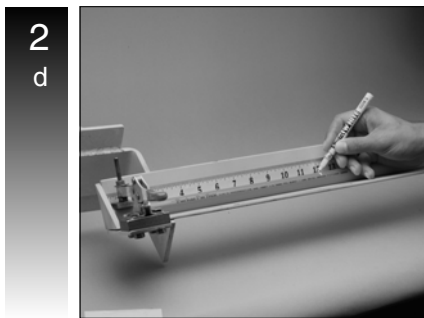
500 mm – 70 mm = 430 mm

Length of hose required = 430 mm



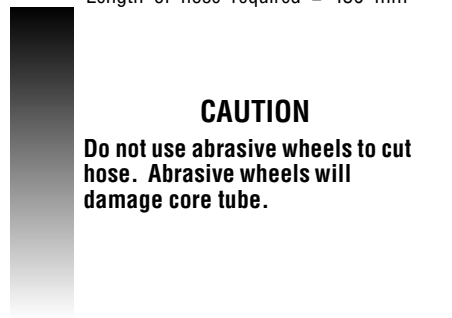
2
c

Secure hose in some type of fixture to ensure straightness.



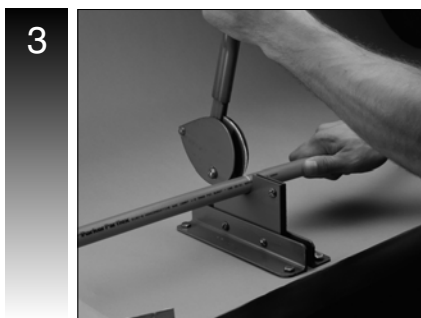
2
d

Measure and mark hose.



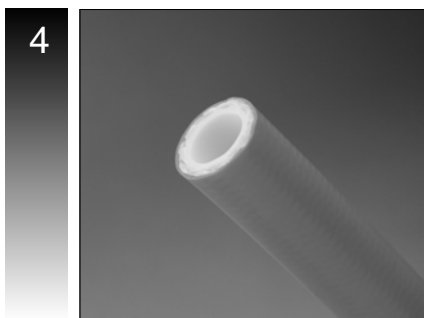
CAUTION

Do not use abrasive wheels to cut hose. Abrasive wheels will damage core tube.



3

Using a Parker Model 316 cutoff tool, Parflex PHC hand cutter or other sharp cutter, cut hose squarely to correct length.



4

Visually inspect both ends of hose for squareness. Remove any burrs on core tube with a sharp knife.

Inspect Fittings

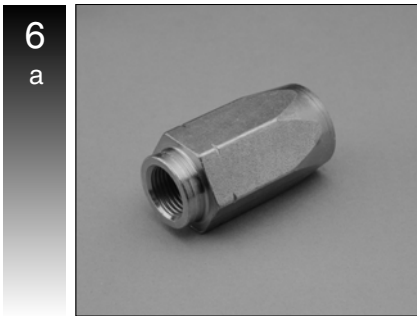


5

Verify fitting part number(s) match work order.

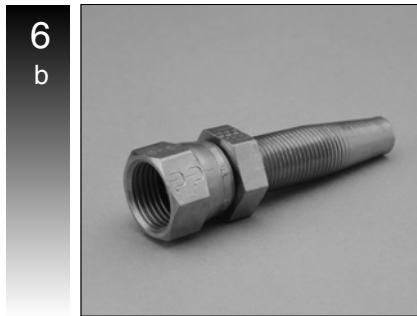


Assemble Hose



6
a

Visually inspect fitting(s) as follows:
Inspect socket for threads in shoulder, threads in shell and damage.



6
b

Inspect nipple for a through-hole, threads, hexagon and damage. Ensure swivel nut is properly crimped, has threads and turns freely.



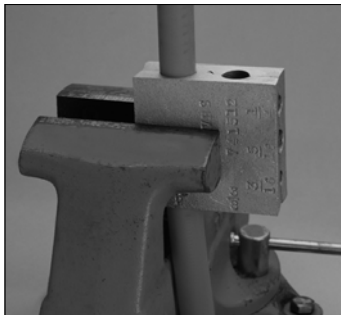
7

Using Parker Hoze-Oil or an SAE 20 lubricating oil, lightly lubricate inside and outside of hose end.

CAUTION

Ensure hose is installed in correct size hole of vice block. Clamping hose in a smaller hole will crush hose.

8



Using a Parker VBS or VBL vice block, place hose in proper hole of vice block and place in bench vice. Ensure enough hose extends from vice block to install socket.

CAUTION

Socket should be firm when tightened but not difficult to turn. If socket is difficult to install, check hose for proper lubrication. Re-apply lubricating oil as necessary. Installation of socket without proper lubrication may damage hose.

9
&
10



Using a wrench, screw socket onto hose counterclockwise until it bottoms. Ensure end of hose is against inside shoulder. Back off socket 1/4 turn clockwise.

CAUTION

When tightening socket in vice, do not over tighten vice jaws. Over tightening vice jaws will distort internal threads of socket and hamper installation of nipple.

11
&
12



Remove vice block and hose from vice.

Place hexagon portion of socket into vice and tighten vice. Ensure socket extends past vice jaws enough to allow for installation of nipple.

13

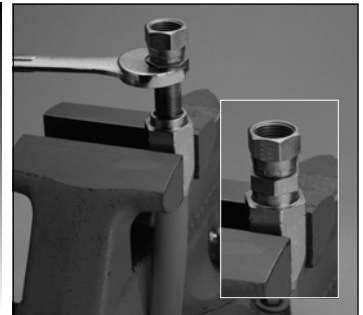


Using Parker Hoze-Oil or an SAE 20 lubricating oil, generously lubricate nipple threads and hose I.D..

CAUTION

Nipple should be firm when tightened but not difficult to turn. If nipple is difficult to install, check hose for proper lubrication. Re-apply lubricating oil as necessary. Installation of nipple without proper lubrication will damage core tube.

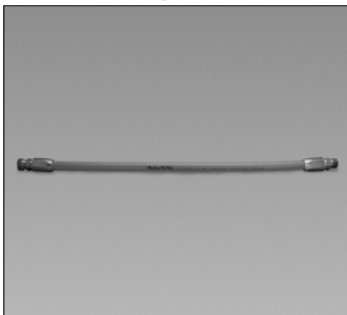
14



Using a wrench on the nipple hexagon, screw nipple into socket clockwise until nipple bottoms against socket shoulder.

Measure and Inspect Hose Assembly

15
&
16



Measure and verify hose assembly length matches work order.

Pressure test hose assembly if required.



Karrykrimp Fitting Assembly Procedures

Measure and Cut Hose to Length



Verify the type and size hose printed on layline match work order.



NOTE

When calculating hose length, take into consideration the change in hose length (expansion/contraction) that may occur during pressurization.

2
a/b

Using a flexible or rigid measuring tape, measure the length of hose required as follows:

- Verify required length of hose assembly with fittings.
- Subtract "Cutoff Allowance" of each fitting from hose assembly length. (Refer to Hose Fittings Tables in Catalog 4460 for proper cutoff allowances)= dimension "B"

Example:

Hose assembly length with fittings = 500 mm

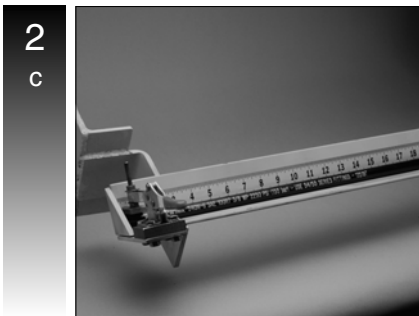
Fitting Cutoff Allowance (1B255-6-6) 36 mm

Fitting Cutoff Allowance (1D955-6-6) 27 mm

Total Cutoff Allowance 63 mm

500 mm – 63 mm = 437 mm

Length of hose required = 437 mm



Secure hose in some type of fixture to ensure straightness.



Measure and mark hose.



CAUTION

Do not use abrasive wheels to cut hose. Abrasive wheels will damage core tube.



Using a Parker Model 316 cutoff tool, Parflex PHC hand cutter or other sharp cutter, cut hose squarely to correct length.



Visually inspect both ends of hose for squareness.



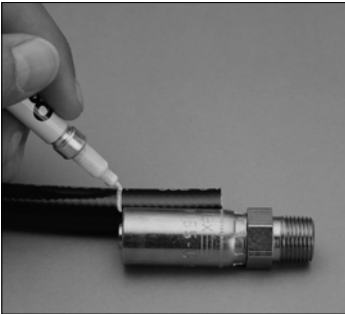
Verify fitting part number(s) match work order.

Visually inspect fitting(s) for a through-hole, threads and damage.

Inspect Fittings

Assemble Hose

7



Mark hose end with proper insertion depth line. (Insertion depth = dimension "A" minus "B" according to hose fitting tables in section "K")

WARNING

Do not use lubricating oil when installing fittings on hose used in oxygen service. When installing fittings on hose used in oxygen service lubricate with a non-oil based soap solution. Failure to do so may result in an explosion and personal injury when hose is used.

8



Using Parker Hoze-Oil or an SAE 20 lubricating oil, lightly lubricate inside of hose end. (Use non-oil based soap solution for oxygen service)

9



Push hose into fitting all the way to depth insertion mark. (If fitting does not readily slide onto hose, perform the next step)

10
a



Tap fitting onto hose as follows: Using Parker VBS or VBL vice blocks, place hose with fitting into proper hole of vice block and place in bench vice.

CAUTION

Ensure hose extends from vice blocks only enough to clear depth insertion mark. Failure to do this may result in harmful kinking to the hose.

10
b
&
11



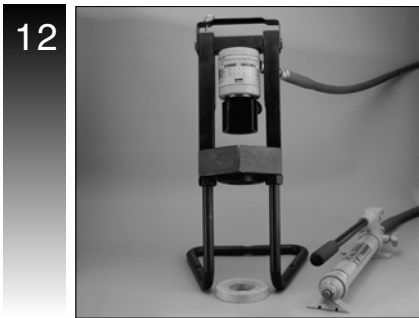
Using a rubber mallet, tap fitting onto hose until bottom of fitting shell is aligned with depth insertion mark.

Repeat Steps 7-10 for other end of hose if required.

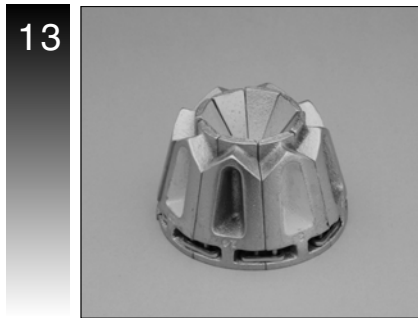
NOTE

The following steps are performed using the Parker Karrykrimp.

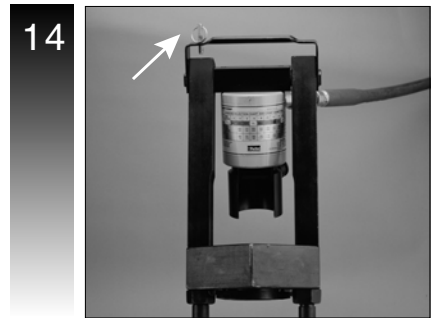
P



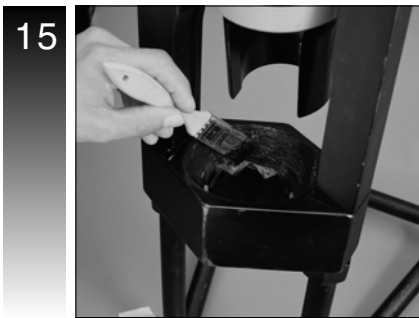
Assemble Karrykrimp if not already assembled.



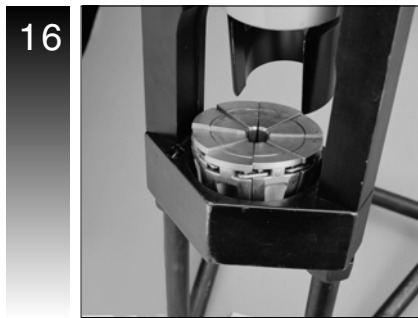
Select proper Parkrimp die set. (See Swage and Crimp Die Selection Chart in this catalog section for proper part number selection.)



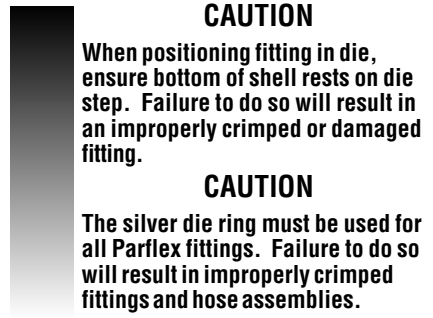
Pull pin at top of unit and push cylinder towards the rear.



Using a molybdenum disulfide type grease, apply a thin layer of grease on bowl of crimper base plate.



Place die set into bowl.



CAUTION

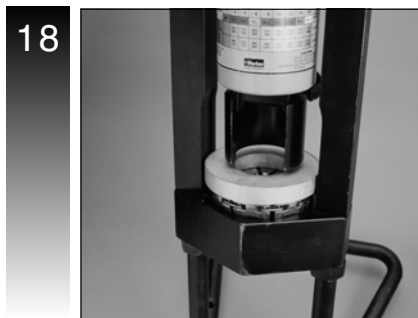
When positioning fitting in die, ensure bottom of shell rests on die step. Failure to do so will result in an improperly crimped or damaged fitting.

CAUTION

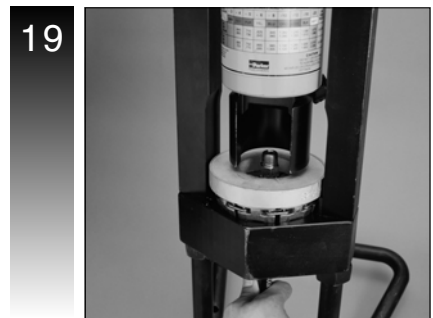
The silver die ring must be used for all Parflex fittings. Failure to do so will result in improperly crimped fittings and hose assemblies.



Place silver die ring on top of die. Position ring so it is centered on die.



Reposition cylinder and replace pin.



Insert hose and fitting from bottom of crimper and up through die. Position fitting so bottom of fitting shell rests on die step.

NOTE

Parker Karrykrimp machines are available with four optional pump units; 82C-OAP Air/Oil Pump, 82C-OEP Electric Pump, 82C-OBP Battery-Powered Pump and 82C-OHP Hand Pump. Operate your unit according to type pump installed.

20



Operate pump until die ring contacts base plate.

21



Release pump pressure.

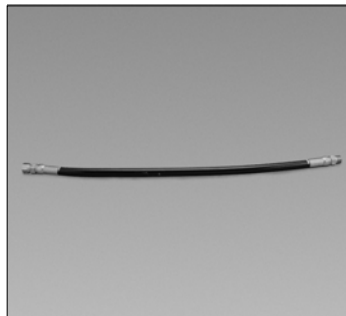
Measure and Inspect Hose Assembly

22
&
23



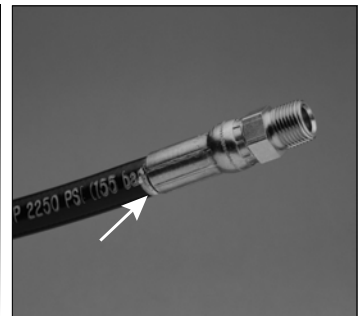
Remove hose assembly.
 Repeat Steps 13-22 for the other end of hose if required.

24



Measure and verify hose assembly length matches work order.

25



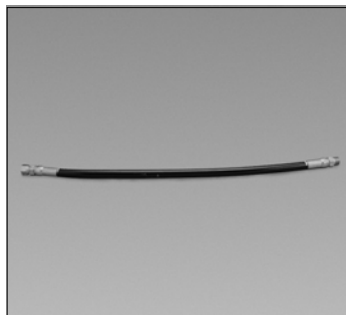
Inspect insertion depth mark at fitting ends. Insertion mark must be visible and within 1/8" of bottom of fitting shell.

26



Measure crimp diameter of each fitting at top, middle and bottom of shell. Take measurements at a minimum of three places around shell circumference. Verify crimp diameter is within tolerances. (See Crimp Specification & Tool Selection Chart in this catalog section for proper crimp diameters.)

27



Pressure test hose assembly if required.

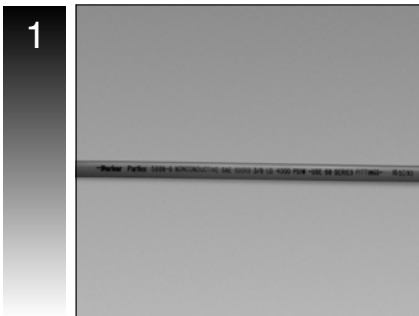
NOTE

The illustration shows a 55 series fitting. The appearance of other fitting series might be different.



Parkrimp II Fitting Assembly Procedures

Measure and Cut Hose to Length



1

Verify the type and size hose printed on layline match work order.



NOTE

When calculating hose length, take into consideration the change in hose length (expansion/contraction) that may occur during pressurization.



2
a/b

Using a flexible or rigid measuring tape, measure the length of hose required as follows:

- a. Verify required length of hose assembly with fittings.
- b. Subtract "Cutoff Allowance" of each fitting from hose assembly length. (Refer to Hose Fittings Tables in Catalog 4460 for proper cutoff allowances)= dimension "B"

Example:

Hose assembly length with fittings = 500 mm

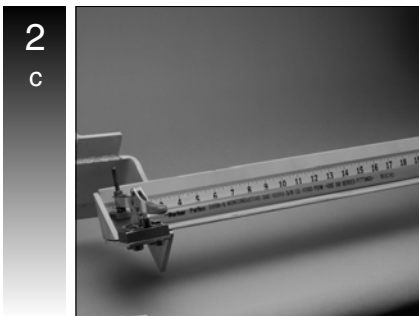
Fitting Cutoff Allowance (1B255-6-6) 36 mm

Fitting Cutoff Allowance (1D955-6-6) 27 mm

Total Cutoff Allowance 63 mm

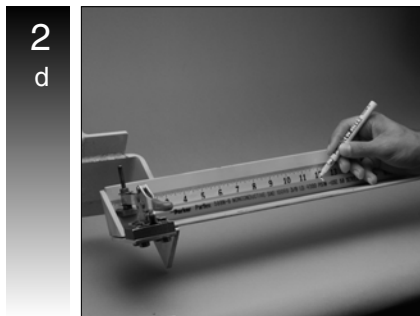
500 mm – 63 mm = 437 mm

Length of hose required = 437 mm



2
c

Secure hose in some type of fixture to ensure straightness.



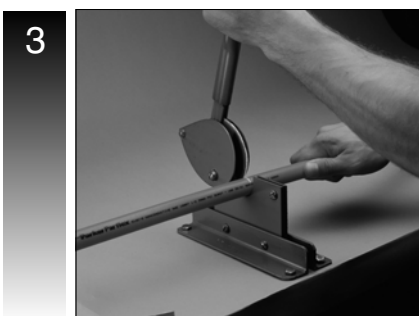
2
d

Measure and mark hose.



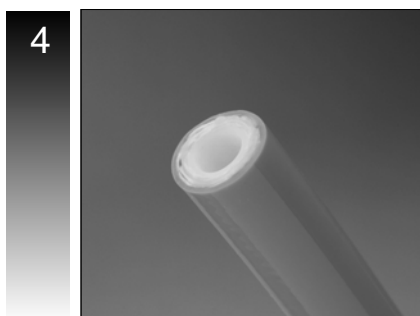
CAUTION

Do not use abrasive wheels to cut hose. Abrasive wheels will damage core tube.



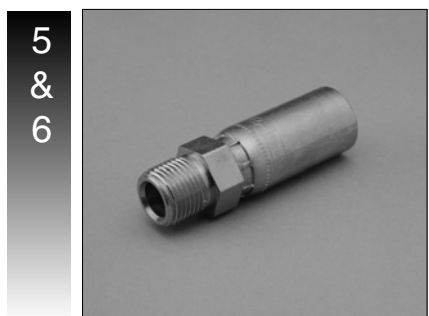
3

Using a Parker Model 316 cutoff tool, Parflex PHC hand cutter or other sharp cutter, cut hose squarely to correct length.



4

Visually inspect both ends of hose for squareness.



5
&
6

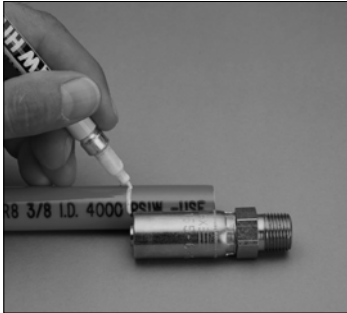
Verify fitting part number(s) match work order.

Visually inspect fitting(s) for a through-hole, threads and damage.

Inspect Fittings

Assemble Hose

7



Mark hose end with proper insertion depth line. (Insertion depth = dimension "A" minus "B" according to hose fitting tables in section "K")

WARNING

Do not use lubricating oil when installing fittings on hose used in oxygen service. When installing fittings on hose used in oxygen service lubricate with a non-oil based soap solution. Failure to do so may result in an explosion and personal injury when hose is used.

8



Using Parker Hoze-Oil or an SAE 20 lubricating oil, lightly lubricate inside of hose end. (Use soap solution for oxygen service.)

9



Push hose into fitting all the way to depth insertion mark. (If fitting does not readily slide onto hose, perform the next step.)

10
a



Tap fitting onto hose as follows: Using Parker VBS or VBL vice blocks, place hose with fitting into proper hole of vice block and place in bench vice.

CAUTION

Ensure hose extends from vice blocks only enough to clear depth insertion mark. Failure to do this may result in harmful kinking of hose.

10
b
11



Using a rubber mallet, tap fitting onto hose until bottom of fitting shell is aligned with depth insertion mark.

Repeat Steps 7-10 for other end of hose if required.

NOTE

The following steps are performed using the Parker Parkrimp II.

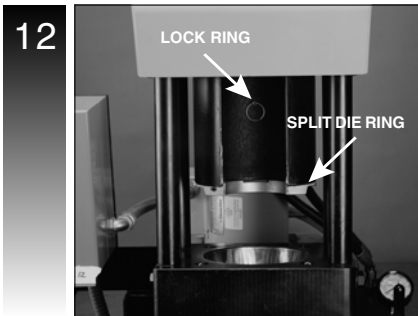
NOTE

Pusher slide pin is located inside rear of pusher.

CAUTION

Do not use the black spacer ring on Parflex fittings. Use of the black spacer ring will result in improperly crimped fittings and hose assemblies.

P

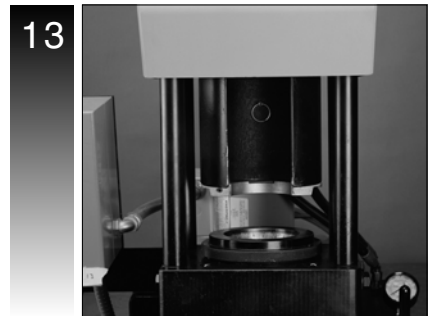


With pusher in full up position, position rear half of split die ring in rear of pusher. Lock ring in position by pushing in slide pin.



NOTE

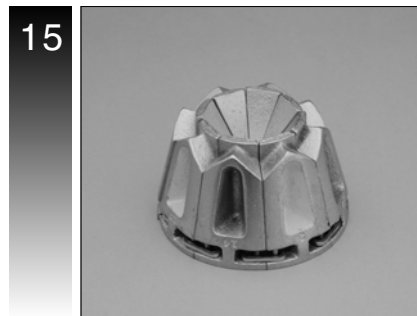
When installing adaptor bowl, tilt bowl toward back of crimper during insertion.



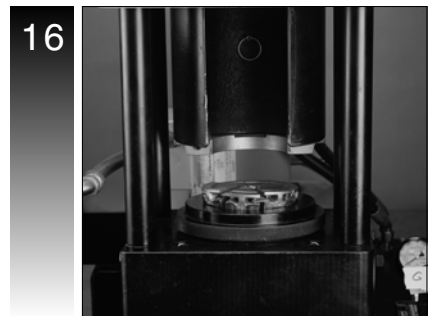
Install adaptor bowl in base plate of crimper for hose sizes 4 thru 20.



Using a molybdenum disulfide type grease, apply a thin layer of grease on inside of adaptor bowl.



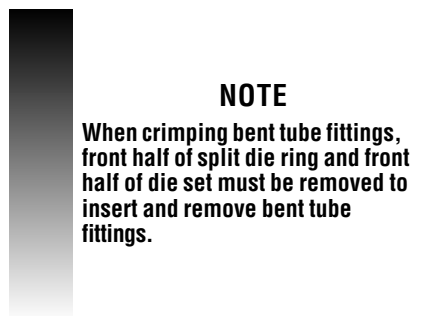
Select proper Parkrimp die set. (See Swage and Crimp Die Selection Chart in this catalog section for proper part number selection.)



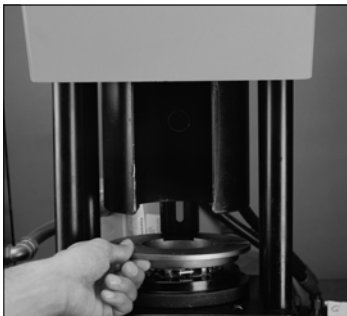
Place die set into bowl.



Lower rear half of split die ring onto dies by pulling slide pin forward.



18

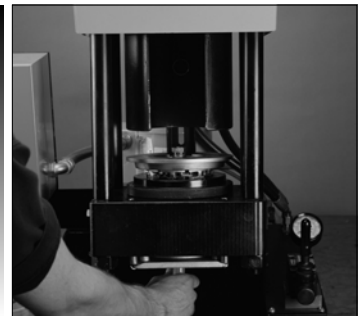


Insert front half of split die ring aligning pin in rear half with hole in front half.

CAUTION

When positioning fitting in die, ensure bottom of shell rests on die step. Failure to do so will result in an improperly crimped or damaged fitting.

19



Insert hose and fitting from bottom of crimper and up through die. Position fitting so bottom of fitting shell rests on die step.

20



Press ON switch to turn on pump.

NOTE

Pump on crimper should not exceed 5000 psi. Parker Hannifin will not accept responsibility for the operation of or provide warranty coverage for a crimper that is operated by a power unit other than equipment supplied by Parker Hannifin for the express purpose of operating the crimper.

WARNING

Keep fingers and hands away from die-pusher area. Failure to do so may result in personal injury.

21



While holding hose and fitting in position on die step, lower pusher by pulling valve handle forward.

22



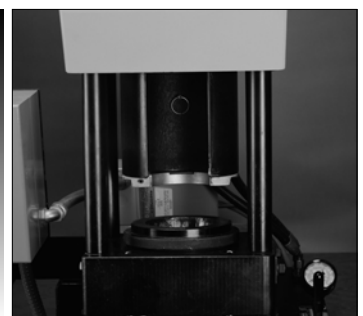
Crimp fitting onto hose until die ring contacts base plate.

23



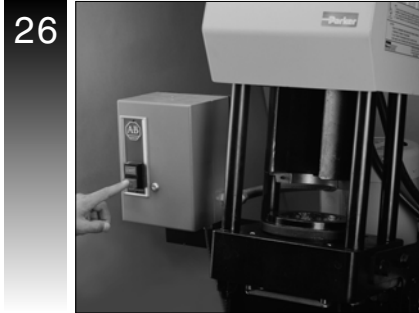
Push valve handle towards the rear to retract pusher and open die set.

24
&
25

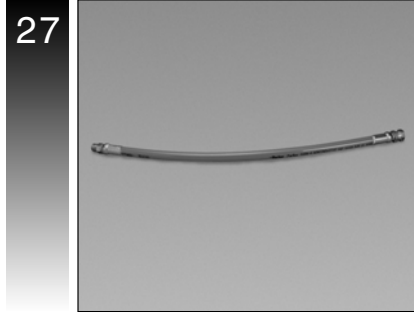


Remove hose assembly and die set. Repeat Steps 13-24 for the other end of hose if required.

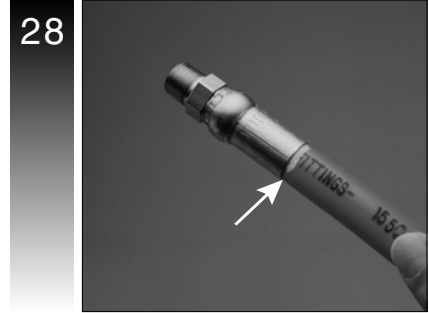
Measure and Inspect Hose Assembly



Press OFF switch to turn off pump.



Measure and verify hose assembly length matches work order.



Inspect depth insertion mark at fitting ends. Insertion mark must be visible and within 1/8" of bottom of fitting shell.

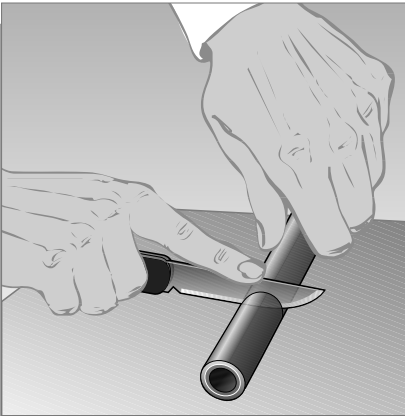


Measure crimp diameter of each fitting at top, middle and bottom of shell. Take measurements at a minimum of three places around shell circumference. Verify crimp diameter is within tolerances. (See Crimp Specification & Tool Selection Chart in this catalog section for proper crimp diameters.)
Pressure test hose assembly if required.

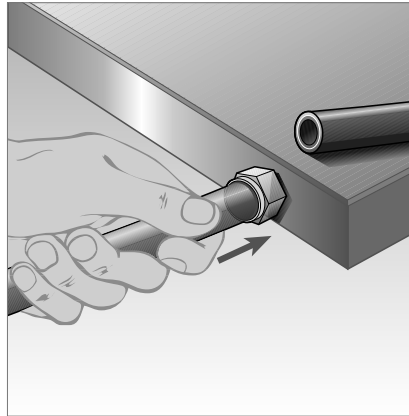
NOTE

The illustration shows a 55 series fitting. The appearance of other fitting series might be different.

Assembly Instructions for Push-Lok® Self-Gripping Hose



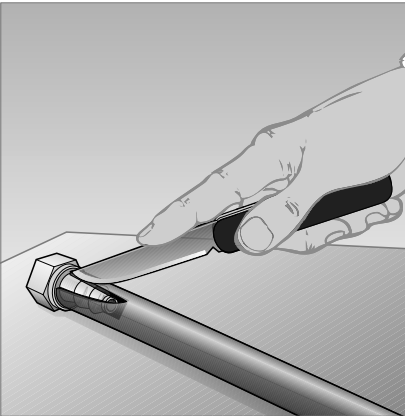
1. Cut hose perpendicularly with a sharp knife. If necessary, lubricate fitting end with water or soap and water solution (5% liquid soap + 95% water) for ease of assembly.



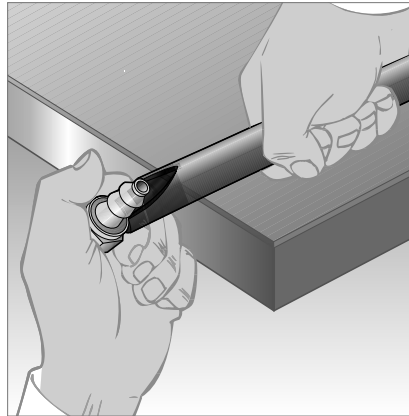
2. Insert fitting into hose and push with steady force until fitting is completely in hose. Grip hose approximately 2.5 cm from end. As an alternative, use the Parker 611050G assembly tool.

Caution: Push-Lok® fittings will provide an effective grip only when the Push-Lok® hose is pushed fully onto the insert, where the cropped end of the hose should be fully concealed by the plastic collar.

Disassembly



1. Cut the hose longitudinally along a line at approximately a 20° angle from the centre line of the hose. Make sure not to nick the barbs of the fitting.



2. Pull fitting out of hose.

Caution: Before reusing the fitting, check fitting for damages. Damaged fittings result in leakage.

Push-Lok® Assembly Tool

For easy assembly of Parker self-gripping hose.

Overall length: approx. 320 mm

Weight: approx. 2.2 kg

Part No.: 611050G



P

Technical and Design Information
Crimping Diameter and Tooling Selection Chart for Parflex® Hose

Parflex® Hose

Hose Type	Dash-Size			Fitting-Series	Parkrimp®	Colour Code	Crimp Diameter in mm (from / to)	
	DN	mm	Inch					
GPH	5	-03	4.8	3/16	55/56	P03	grey	12.19 / 12.70
GPH	6	-04	6.3	1/4	55/56	P04J	red	13.59 / 14.10
GPH	10	-06	9.5	3/8	55/56	P06	yellow	17.15 / 17.65
GPH	12	-08	12.7	1/2	55/56	P08	blue	21.34 / 21.84
GPH	20	-12	19.1	3/4	55	P12	green	27.94 / 28.45
510A	5	-03	4.8	3/16	55/56	80C-P03	grey	12.15 / 12.65
510A	6	-04	6.3	1/4	55/56	80C-P04J	red	13.55 / 14.05
510A	8	-05	7.9	5/16	55/56	80C-P05	purple	15.75 / 16.25
510A	10	-06	9.5	3/8	55/56	80C-P06	yellow	17.15 / 17.65
510A	12	-08	12.7	1/2	55/56	80C-P08	blue	21.35 / 21.85
510A	20	-12	19.1	3/4	55	80C-P12	green	27.95 / 28.45
518C	3	-02	3.2	1/8	58	80C-P02H	brown	10.05 / 10.55
518C	5	-03	4.8	3/16	55/56	80C-P03	grey	12.15 / 12.65
518C	6	-04	6.3	1/4	55/56	80C-P04J	red	13.55 / 14.05
518C	8	-05	7.9	5/16	55/56	80C-P05	purple	15.75 / 16.25
518C	10	-06	9.5	3/8	55/56	80C-P06	yellow	17.15 / 17.65
518C	12	-08	12.7	1/2	55/56	80C-P08	blue	21.35 / 21.85
518C	16	-10	15.9	5/8	58	80C-P10H	orange	25.45 / 25.95
518C	20	-12	19.1	3/4	55	80C-P12	green	27.95 / 28.45
518C	25	-16	25.4	1	55	80C-P16	black	34.15 / 34.65
520N	5	-03	4.8	3/16	55/56	80C-P03	grey	12.15 / 12.65
520N	6	-04	6.3	1/4	55/56	80C-P04	red	14.25 / 14.75
520N	8	-05	7.9	5/16	55/56	80C-P05	purple	15.75 / 16.25
520N	10	-06	9.5	3/8	55/56	80C-P06	yellow	17.15 / 17.65
520N	12	-08	12.7	1/2	55/56	80C-P08	blue	21.35 / 21.85
528N	5	-03	4.8	3/16	55/56	80C-P03	grey	12.15 / 12.65
528N	6	-04	6.3	1/4	55/56	80C-P04	red	14.25 / 14.75
528N	8	-05	7.9	5/16	55/56	80C-P05	purple	15.75 / 16.25
528N	10	-06	9.5	3/8	55/56	80C-P06	yellow	17.15 / 17.65
528N	12	-08	12.7	1/2	55/56	80C-P08	blue	21.35 / 21.85
540N	3	-02	3.2	1/8	58	80C-P02H	brown	10.05 / 10.55
540N	5	-03	4.8	3/16	55/56	80C-P03	grey	12.15 / 12.65
540N	6	-04	6.3	1/4	55/56	80C-P04	red	14.25 / 14.75
540N	8	-05	7.9	5/16	55/56	80C-P05	purple	15.75 / 16.25
540N	10	-06	9.5	3/8	55/56	80C-P06	yellow	17.15 / 17.65
540N	12	-08	12.7	1/2	55/56	80C-P08	blue	21.35 / 21.85
540N	20	-12	19.1	3/4	55	80C-P12	green	27.95 / 28.45
550H	5	-03	4.8	3/16	55/56	80C-P03	grey	12.15 / 12.65
550H	6	-04	6.3	1/4	55/56	80C-P04	red	14.25 / 14.75
550H	8	-05	7.9	5/16	55/56	80C-P05	purple	15.75 / 16.25
550H	10	-06	9.5	3/8	55/56	80C-P06	yellow	17.15 / 17.65
550H	12	-08	12.7	1/2	55/56	80C-P08	blue	21.35 / 21.85
550H	16	-10	15.9	5/8	58	80C-P10H	orange	25.45 / 25.95
550H	20	-12	19.1	3/4	55	80C-P12	green	27.95 / 28.45
550H	25	-16	25.4	1	55	80C-P16	black	34.15 / 34.65

Technical and Design Information
Crimping Diameter and Tooling Selection Chart for Parflex® Hose

Parflex® Hose

Hose Type	Dash-Size				Fitting-Series	Parkrimp®	Colour Code	Crimp Diameter in mm (from / to)
	DN	mm	Inch					
55LT	3	-02	3.2	1/8	58	80C-P02H	brown	10.05 / 10.55
55LT	5	-03	4.8	3/16	55/56	80C-P03	grey	12.15 / 12.65
55LT	6	-04	6.3	1/4	55/56	80C-P04	red	14.25 / 14.75
55LT	8	-05	7.9	5/16	55/56	80C-P05	purple	15.75 / 16.25
55LT	10	-06	9.5	3/8	55/56	80C-P06	yellow	17.15 / 17.65
55LT	12	-08	12.7	1/2	55/56	80C-P08	blue	21.35 / 21.85
55LT	20	-12	19.1	3/4	55	80C-P12	green	27.95 / 28.45
1202LT	5	-03	4.8	3/16	55/56	80C-P03	grey	12.19 / 12.70
1202LT	6	-04	6.3	1/4	55/56	80C-P04	red	14.22 / 14.73
1202LT	8	-05	7.9	5/16	55/56	80C-P05	purple	15.75 / 16.25
1202LT	10	-06	9.5	3/8	55/56	80C-P06	yellow	17.15 / 17.65
560	5	-03	4.8	3/16	55/56	80C-P03	grey	12.15 / 12.65
560	6	-04	6.3	1/4	55/56	80C-P04	red	14.25 / 14.75
560	8	-05	7.9	5/16	55/56	80C-P05	purple	15.75 / 16.25
560	10	-06	9.5	3/8	55/56	80C-P06	yellow	17.15 / 17.65
560	12	-08	12.7	1/2	55/56	80C-P08J	blue	20.75 / 21.25
560	20	-12	19.1	3/4	55	80C-P12H	green	29.25 / 29.75
575X	5	-03	4.8	3/16	55/56	80C-P03	grey	12.15 / 12.65
575X	6	-04	6.3	1/4	55/56	80C-P04	red	14.25 / 14.75
575X	10	-06	9.5	3/8	55/56	80C-P06	yellow	17.15 / 17.65
575X	12	-08	12.7	1/2	55/56	80C-P08	blue	21.35 / 21.85
580N	6	-04	6.3	1/4	58	80C-P04H	red	16.95 / 17.45
580N	10	-06	9.5	3/8	58	80C-P06H	yellow	19.95 / 20.45
580N	12	-08	12.7	1/2	58	80C-P08H	blue	22.85 / 23.35
580N	20	-12	19.1	3/4	58	80C-P12H	green	29.25 / 29.75
580N	25	-16	25.4	1	58	80C-P16H	black	37.45 / 37.95
588N	6	-04	6.3	1/4	58	80C-P04H	red	16.95 / 17.45
588N	10	-06	9.5	3/8	58	80C-P06H	yellow	19.95 / 20.45
588N	12	-08	12.7	1/2	58	80C-P08H	blue	22.85 / 23.35
588N	16	-10	15.9	5/8	58	80C-P10H	orange	25.45 / 25.95
588N	20	-12	19.1	3/4	58	80C-P12H	green	29.25 / 29.75
588N	25	-16	25.4	1	58	80C-P16H	black	37.45 / 37.95
590	5	-03	4.8	3/16	55/56	80C-P03	grey	12.15 / 12.65
590	6	-04	6.3	1/4	55/56	80C-P04	red	14.25 / 14.75
590	10	-06	9.5	3/8	55/56	80C-P06	yellow	17.15 / 17.65
590	12	-08	12.7	1/2	55/56	80C-P08J	blue	20.75 / 21.25
590	16	-10	15.9	5/8	58	80C-P10H	orange	25.45 / 25.95
590	20	-12	19.1	3/4	58	80C-P12H	green	29.25 / 29.75
590	25	-16	25.4	1	58	80C-P16J	black	36.85 / 37.35
919		-03	3.2	1/8	91	80C-T03	grey	7.49 / 7.74
919		-04	4.7	3/16	91N	80C-T04N	red	8.51 / 9.02
919/919B		-05	6.3	1/4	91N	80C-T05N	purple	9.78 / 10.29
919/919B		-06	7.9	5/16	91N	80C-T06N	yellow	11.94 / 12.45
919/919B		-08	10.3	13/32	91N	80C-T08N	blue	14.35 / 14.86
919		-10	12.7	1/2	91N	T10N	orange	16.89 / 17.40
919		-12	15.9	5/8	91N	T12N	green	20.07 / 20.57
919		-16	22.2	7/8	91N	T16N	black	26.54 / 27.05
919		-20	28.6	1 1/8	91	80C-T20	white	35.94 / 36.45



Thermoplastic Hose

Determining the Hose Length for Over-the-Sheaf Applications

The exact cut-off length for an optimum over-the-sheaf assembly depends on the particular mechanical arrangement of the machine. A method for finding an approximate starting point is as follows:

1. Assemble hose with one coupling, as shown in diagram.

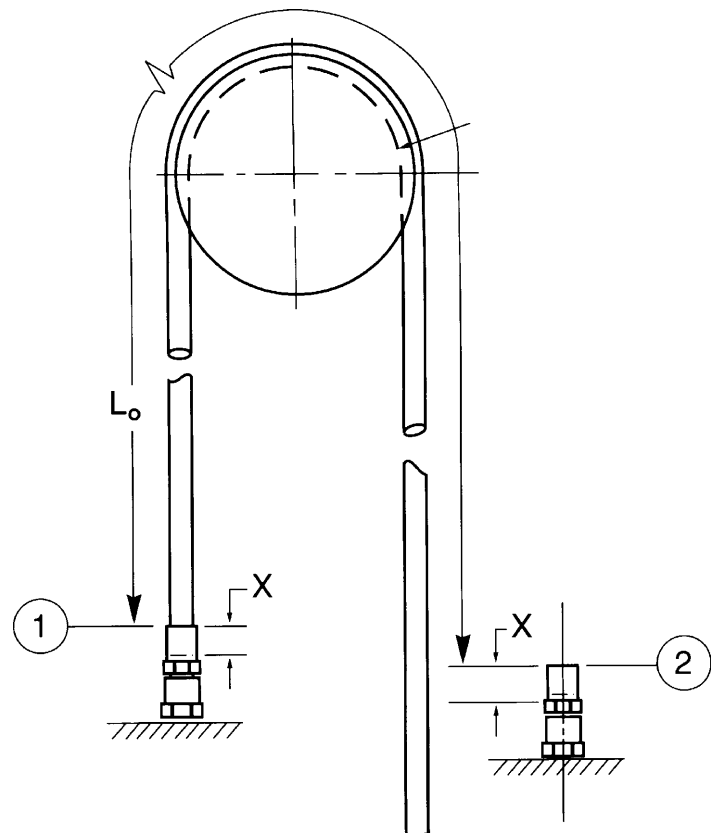
2. Measure hose length from point 1 to point 2 with hose taut (L_o = length).

3. Calculate hose cut-off or free length L_f :

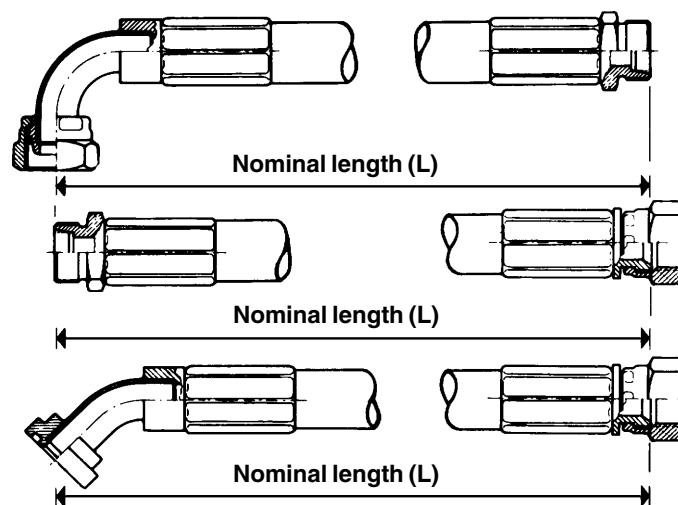
$$L_f = 0.985 L_o + 2x$$

Where L_f includes coupling insert allowance on both ends. The coupling insert allowance (x) may be found from the fitting tables as well as from the related drawing (difference measurement A-B) or from direct measuring on the coupling. A 1.5% stretch allowance is provided in this formula.

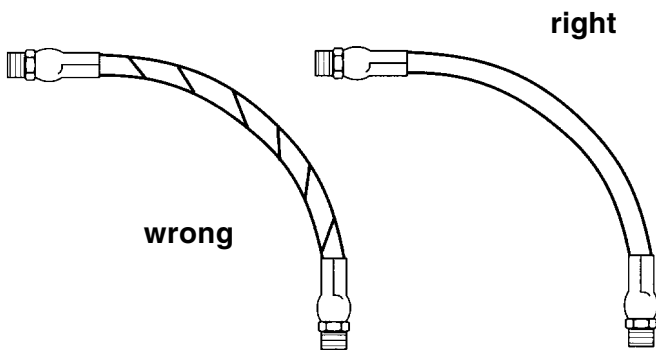
4. Couple the remaining hose end and assemble on the machine.



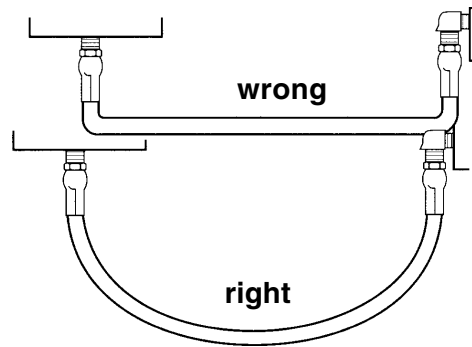
Definition of nominal length



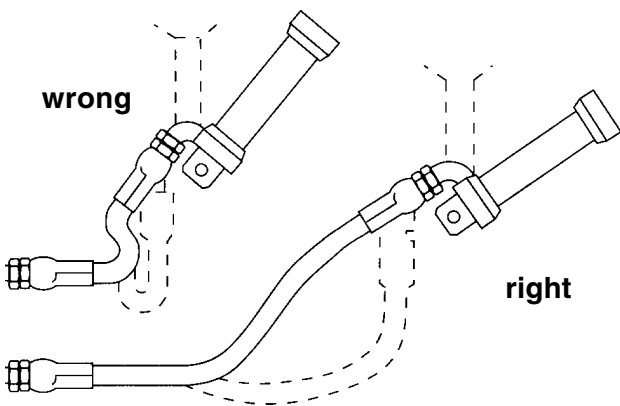
Installation Tips



Hose is weakened when installed in twisted position. Also, pressure pulses in twisted hose tend to fatigue wire and loosen fitting connections. Design so that machine motion produces bending rather than torsion.

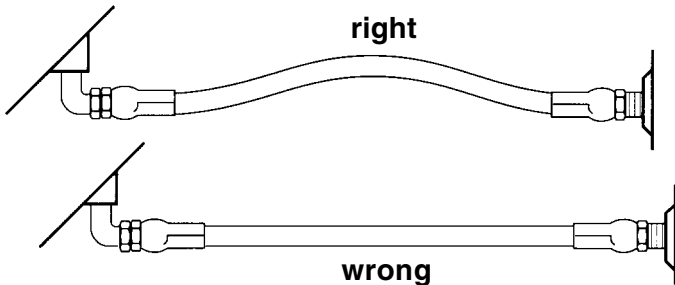


Hose should exit coupling in a straight position rather than side loaded. The minimum bend radius must not be exceeded to avoid kinking of hose and flow restriction.

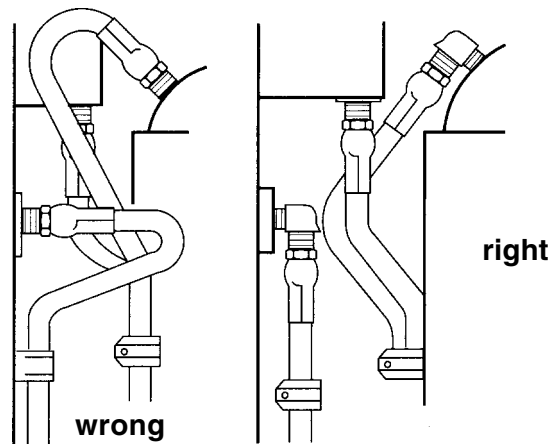


When hose assembly is installed in a flexing application, remember that metal hose fittings are not part of the flexible portion.

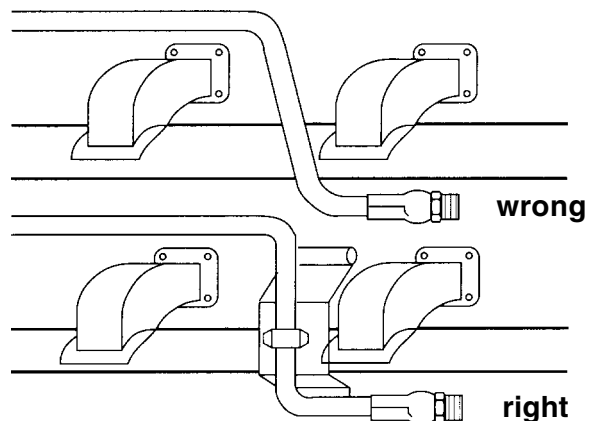
Free hose length allowance:



Pressure can change hose in length by as much as $\pm 2\%$. This must be considered when cutting hose to appropriate length.



Use elbows or adaptors as necessary to eliminate excess hose length and to ensure neater installation and easier maintenance.



Avoid installing hose assemblies close to heat sources. However, if this should be required, insulate hose.

Unit Conversion Table

Physical value	Unit	Abbreviation	Conversion Unit	Factor
Length	1 inch	in	mm	25.4
	1 millimeter	mm	in	0.03934
	1 foot	ft	m	0.3048
	1 meter	m	ft	3.28084
Surface	1 square inch	sq in	cm ²	6.4516
	1 square centimeter	cm ²	sq in	0.1550
Cubic content	1 gallon (UK)	gal	l	4.54596
	1 liter	l	gal (UK)	0.219976
	1 gallon (US)	gal	l	3.78533
	1 liter	l	gal (US)	0.264177
Weight	1 pound	lb	kg	0.453592
	1 kilogram	kg	lb	2.204622
Pressure	1 pound per square inch	psi	bar	0.06895
	1 bar	bar	psi	14.5035
	1 pound per square inch	psi	MPa	0.006895
	1 mega pascal	MPa	psi	145.035
	1 kilo pascal	kPa	bar	0.01
	1 bar	bar	kPa	100
	1 mega pascal	MPa	bar	10
	1 bar	bar	MPa	0.1
Velocity	1 foot per second	ft/s	m/s	0.3048
	1 meter per second	m/s	ft/s	3.28084
Flow rate	1 gallon per minute (UK)	gal/min.	l/min.	4.54596
	1 liter per minute	l/min.	gal/min. (UK)	0.219976
	1 gallon per minute (US)	gal/min.	l/min.	3.78533
	1 liter per minute	l/min.	gal/min. (US)	0.264178
Temperature	Fahrenheit	F	°C	$\frac{5}{9}(F-32)$
	Celsius	°C	F	$\frac{°C \times 9}{5} + 32$

(UK) = Unit used in the United Kingdom
(US) = Unit used in the Unites States of America

Q – Approvals and Guidelines

Approvals	Q2
Installation Guidelines	Q3
Parker Safety Guidelines	Q4 - Q7

For Your Safety!

Hose assemblies are used to transmit various kinds of fluids at considerable pressures. The critical zone of a hose assembly is the connection between flexible hose and rigid fitting (crimping area). Only the use of original polyflex® components (hose, fittings and tooling) and full compliance with the polyflex® assembly instructions can guarantee safety and conformity with standards.

When making and testing hose assemblies in connection with the respective field of application the guidelines and technical regulations as well as protection and hazard prevention rulings must be adhered to.

You as the manufacturer of polyflex® hose assemblies are obliged to mark the hose assemblies according to the regulations and to verify their safety by a final pressure test.

Non-compliance with these rules can lead to the failure of a hose assembly and the loss of warranty.

Approvals and Guidelines

Approvals

Standards and Certificates	Approved Polyflex® / Parflex® Hose
Flame Resistance: USCG, 46 CFR SAEJ1942	520N, 540N, 550H, 560, 590, 919 (with fire sleeve) 919 (with fire sleeve)
Dry Food Contact: FDA, CFR21 Part 177	919, 929
Hydraulic Service: SAE 100R7 SAE 100R8 SAE 100R14	2010H, 540N, 550H, 558H, 55LT, 510A, 518C 520N, 580N, 588N 919
International Standards: ISO (International Standards Organisation) ISO 3949-1 ISO 3449-2	540N, 550H 520N, 580N, 588N
DIN (Deutsches Institut für Normung): DIN 24951-2KT DIN 20022 Part 1 (Performance Requirements) DIN 20022 Part 2	2010H, 540N, 550H, 558H 2040N, 560 2040H, 2245N/2244N
Electrical Non-Conductivity: SAE J517, Pitman E-00094 Ontario Hydro, SAE J517	518C, HP8, 518C, 588N
DNV: Det Norske Veritas Marine Steel Ships, Mobile Offshore and Fixed Offshore Drilling Units	520N, 580N, 588N, 550H, 558N, 540N 573X, 573XL, 575X HP, HP8 590, 593, 560 2040N, 2040H, 2010N, 2010H, 2020N, 2245N, 2244N
LOBA (Landesoberbergbauamt)	2244N-20
Germanischer Lloyd 92590-97HH	2040N
CNG TUEV and AGA AGA/CSA IAS-U.S. 1-93	2370N-04V01, 2370N-05V01, 2370N-06V01, 2370N-08V01 5CNG
Deutsche Bahn acc. DIN 5510/2 053 973 40/1 053 973 40/2	2030T-03V70 2030T-16V70
TUEV MUK-KSP-A 039	TPU Tubing

Hose Installation Tips

Establish hose size (I. D.) and style based upon flow rate (l/min), pressure drop, and chemical resistance with liquid or gaseous fluid. Other significant factors to be considered in hose selection and installation are the following:

Burst Pressure and Working Pressure

The specified burst pressure for each hose style and dash size are for unaged hoses tested at normal laboratory temperature in accordance with SAE J343 specification for normal service and technically ideal installations. The maximum recommended working pressure is 1/4 of the minimum rated burst pressure, except as otherwise specifically stated in those product specifications. For more severe service, a higher rated working pressure hose may have to be selected.

Operating Temperature

The temperature range for satisfactory service (maximum hose life) depends to a great extent upon the fluid being conveyed. Use of a hose above maximum specified temperature ratings will shorten hose life due, but not limited, to oxidation, chemical degradation and loss of compression within the coupling.

Pressure Effects

Pressure surges and system shocks (spikes) are common in hydraulic systems. The normal 1:4 safety factor should reflect these transient pressures. Where these surges and shocks are considered severe or hazardous, the safety factor should be increased.

When hose is under pressure, it may change in length by as much as +2/ -4%. Installation should compensate for shortening by providing an appropriate amount of slack and for lengthening by allowing space for this growth to be absorbed.

Bend Radius

The minimum bend radii listed in this catalogue are valid at rated working pressures and indicated service temperatures. Service life of a hose may be shortened if the minimum radius is exceeded or if the hose is flexed continuously in use.

Ambient Temperature

Exceedingly high or low ambient temperatures will affect the materials from which the hose is constructed and will negatively influence hose life. When at all possible, the hose should be routed in such a manner as to protect it from heat sources. In extreme cold applications, the equipment should be designed with remote relief valves to allow circulation and warming of the oil before hose articulation is attempted.

Abrasion

Abrasion occurs in numerous forms. Among the more common are the typical rubbing or chafing, with the second being very high frequency, low amplitude friction. This type of abrasion results from pump pressure pulses depending on the pump characteristics. It can also be caused by equipment vibration or resonance. Abrasion may occur when two hose lines cross or when a hose line rubs or bears against a fixed point. Abrasion resistance is also a function of temperature and attack of the cover material by aggressive chemicals.

Protective sleeving can ward off premature hose failure resulting from abrasion.

Routing and Clamping

Maximum efforts should be made to route hose so it flexes in a single plane. Routing hoses in flexure through compound bends results in torsion. When this is unavoidable, the torsion should be distributed over the maximum hose length possible. Wire reinforced hoses suffer the most rapid and severe loss of service life when applied in torsion. Extremely tight and improperly located clamps focus this torsion over short distances.

Analysis of the hose function is required before the proper clamping techniques can be selected. In some applications, hoses must be contained to stay out of harm's way and at the same time be free to come and go with equipment articulation. Other applications may require restrictive clamping, in which case a protective material should be used around the hose to provide the grasp without deformation of the hose by the clamp.



Parker Safety Guide for Selecting and Using Hose, Fittings and Related Accessories

! Danger: Failure or improper selection or improper use of hose, fittings, or related accessories can cause death, personal injury and property damage. Possible consequences of failure or improper selection or improper use of hose, fittings, or related accessories include but are not limited to:

- Fittings thrown off at high speed.
- High velocity fluid discharge.
- Explosion or burning of the conveyed fluid.
- Electrocution from high voltage electric power lines or other sources of electricity.
- Contact with suddenly moving or falling objects that are to be held in position or moved by the conveyed fluid.
- Dangerously whipping hose.
- Contact with conveyed fluids that may be hot, cold, toxic or otherwise injurious.
- Sparking or explosion caused by static electricity build-up.
- Sparking or explosion while paint or flammable liquid spraying.

Before selecting or using any Parker hose or fittings or related accessories, it is important that you read and follow the following instructions.

1.0 General Hints

1.1 Scope: This safety guide provides instructions for selecting and using (including assembling, installing, and maintaining) hose (including all rubber and/or plastic products commonly called hose or tubing), fittings (including all products commonly called fittings or couplings for attachment to hose), and related accessories (including crimping and swaging machines and tooling). This safety guide is a supplement to and is to be used with, specific Parker publications for the specific hose, fittings and related accessories that are being considered for use.

1.2 Fail Safe: Hose and hose assemblies can and do fail without warning for many reasons. Design all systems and equipment in a fail-safe mode, so that failure of the hose or hose assembly will not endanger persons or property.

1.3 Distribution: Provide a copy of this safety guide to each person that is responsible for selecting or using hose and fitting products. Do not select or use hose and fittings without thoroughly reading and understanding this safety guide as well as the specific Parker publications for the products considered or selected.

1.4 User Responsibility: Due to the wide variety of operating conditions and uses for hose and fittings, Parker and its distributors do not represent or warrant that any particular hose or fitting is suitable for any specific end use system. This safety guide does not analyse all technical parameters that must be considered in selecting a product. The user, through his own analysis and testing, is solely responsible for:

- Making the final selection of the hose and fitting.
- Assuring that the user's requirements are met and that the use presents no health or safety hazards.
- Providing all appropriate health and safety warnings on the equipment on which the hose and fittings are used.

1.5 Additional Questions: Call the appropriate Parker technical service department if you have any questions or require any additional information. See the Parker publication for the product being considered or used, for telephone numbers of the appropriate technical service department.

2.0 Hose and Fitting Selection Instructions

2.1 Electrical Conductivity: Certain applications require that a hose be non-conductive to prevent electrical current flow. Other applications require the hose to be sufficiently conductive to drain off static electricity. Extreme care must be exercised when selecting hose and fittings for these or any other applications in which electrical conductivity or non-conductivity is a factor. For applications that require hose to be electrically non-conductive, including but not limited to applications near high voltage electric lines, only special non-conductive hose can be used. The manufacturer of the equipment in which the non-conductive hose is to be used must be consulted to be certain that the hose and fittings selected are proper for the application. Do not use any Parker hose or fitting for any such application requiring non-conductive hose, including but not limited to applications near high voltage electric lines, unless (1) the application is expressly approved in the Parker technical publication for the product, (2) the hose is both orange colour and marked *non-conductive*, and (3) the manufacturer of the equipment on which the hose is to be used specifically approves the particular Parker hose and fitting for such use.

The electrical conductivity or non-conductivity of hose and fittings is dependent upon many factors and may be susceptible to change. These factors include but are not limited to the various materials used to make the hose and the fittings' manufacturing methods (including moisture control), how the fittings contact the hose, age and amount of deterioration or damage or other changes, moisture content of the hose at any particular time and other factors.

Parker manufactures a special hose for conveying paint in airless paint spraying applications. This hose is labelled Electrically Conductive Airless Paint Spray Hose on its layline and on its packaging. This hose must be properly connected to Parker fittings and properly grounded in order to dissipate dangerous static charge build-up which occurs in all airless paint spraying. Do not use any other hose, even if electrically conductive, for airless paint spraying. Use of any other hose or failure to properly connect the hose can cause a fire or an explosion resulting

in death, personal injury, and property damage.

Parker manufactures a special hose for certain compressed natural gas (CNG) applications where static electricity build-up may occur. This hose is labelled Electrically Conductive for CNG Use on its layline and on its packaging. This hose must be properly connected to Parker fittings and properly grounded in order to dissipate dangerous static charge build-up which occurs in, for example, high velocity CNG dispensing or transfer. Do not use any other hose, even if electrically conductive, for CNG transfer where static charge build-up may occur. Use of any other hose in such application or failure to properly connect this hose can cause a fire or an explosion resulting in death, personal injury, and property damage. Care must also be taken to protect against dangerous gas permeation through the hose wall. See section 2.6, Permeation of Fluids, for more information.

2.2 Pressure: Hose selection must be made so that the published maximum recommended working pressure of the hose is equal to or greater than the maximum system pressure. Surge pressures in the system higher than the published maximum recommended working pressure will cause failure or shorten hose life. Do not confuse burst pressure or other pressure values for this purpose.

2.3 Suction: Hoses used for suction applications must be selected to insure that the hose will withstand the vacuum and pressure of the system. Improperly selected hose may collapse in suction applications.

2.4 Temperature: Be certain that fluid and ambient temperatures, both steady and transient, do not exceed the limitations of the hose. Care must be taken when routing hose near hot objects such as manifolds.

2.5 Fluid Resistance: Hose selection must assure resistance of the hose tube, cover, reinforcement, and fittings with the fluid media used. See the fluid resistance chart in the Parker publication for the product being considered or used.

2.6 Permeation: Permeation (that is seepage through the hose) will occur from inside the hose to outside when hose is used with gases, liquid and gas fuels, and refrigerants (including but not limited to such materials as helium, fuel oil, natural gas, or Freon[®]). This permeation may result in high concentrations of vapours which are potentially flammable, explosive, or toxic, and in loss of fluid. Dangerous explosions, fires, and other hazards can result when using the wrong hose for such applications. The system designer must take into account the fact that this permeation will take place and must not use hose if this permeation could be hazardous. The system designer must take into account all legal, government, insurance, or any other special regulations which govern the use of fuels and refrigerants. Never use a hose even though its fluid resistance is acceptable without considering the potential hazardous effects that can result from permeation through the hose assembly.

Permeation of moisture from outside the hose to inside the hose will also occur in hose assemblies, regardless of internal pressure. If this moisture permeation would have detrimental effects (particularly but not limited to refrigeration and air conditioning systems), incorporation of sufficient drying capacity in the system or other appropriate system safeguards should be selected and used.

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2.7 Size: Transmission of power by means of pressurised fluid varies with pressure and rate of flow. The size of the components must be adequate to keep pressure losses to a minimum and avoid damage due to heat generation or excessive fluid velocity.

2.8 Routing: Attention must be given to optimum routing to minimise inherent problems (kinking or flow restriction due to hose collapse).

2.9 Environment: Care must be taken to ensure that the hose and fittings are either compatible with or protected from the environment (that is, surrounding conditions) to which they are exposed. Environmental conditions, including but not limited to ultraviolet radiation, sunlight, heat, ozone, moisture, water, salt water, chemicals, and air pollutants, can cause degradation and premature failure.

2.10 Mechanical Loads: External forces can significantly reduce hose life or cause failure. Mechanical loads which must be considered include excessive flexing, twisting, kinking, tensile or side loads, bend radius, and vibration. Use of swivel type fittings or adaptors may be required to ensure no twist is put into the hose. Unusual applications may require special testing prior to hose selection.

2.11 Physical Damage: Care must be taken to protect hose from wear, snagging and cutting, which can cause premature hose failure.

2.12 Proper End Fitting: See instruction 3.2 to 3.5 below. These recommendations may be substantiated by testing to industry standards such as SAE J517.

2.13 Length: When establishing a proper hose length, motion absorption, hose length changes due to pressure, and hose and machine tolerances must be considered.

2.14 Specifications and Standards: When selecting hose and fittings, government, industry, and Parker specifications and recommendations must be reviewed and followed as applicable.

2.15 Hose Cleanliness: Hose components may vary in cleanliness levels. Care must be taken to ensure that the assembly selected has an adequate level of cleanliness for the application.

2.16 Fire Resistant Fluids: Some fire resistant fluids require the same hose as petroleum oil. Some use a special hose, while a few fluids will

Approvals and Guidelines

Parker Safety Guidelines

not work with any hose at all. See instructions 2.5 and 1.5. The wrong hose may fail after a very short service. In addition, all liquids but pure water may burn fiercely under certain conditions, and even pure water leakage may be hazardous.

2.17 Radiant Heat: Hose can be heated to destruction without contact by such nearby items as hot manifolds or molten metal. The same heat source may then initiate a fire. This can occur despite the presence of cool air around the hose.

2.18 Welding and Brazing: When using a torch or arc welder in close proximity to hydraulic lines, the hydraulic lines should be removed or shielded with appropriate fire resistant materials. Flame or weld spatter could burn through the hose and possibly ignite escaping fluid resulting in a catastrophic failure. Heating of plated parts, including hose fittings and adaptors, above 232°C) such as during welding, brazing, or soldering may emit deadly gases.

2.19 Atomic Radiation: Atomic radiation affects all materials used in hose assemblies. Since the long-term effects may be unknown, do not expose hose assemblies to atomic radiation.

3.0 Hose and Fitting Assembly and Installation Instructions

3.1 Pre-Installation Inspection: Prior to installation, a careful examination of the hose must be performed. All components must be checked for correct style, size, catalogue number and length. In addition, the hose must be examined for cleanliness, obstructions, blisters, cover looseness, or any other visible defects.

3.2 Hose and Fitting Assembly: Do not assemble a Parker fitting on a Parker hose that is not specifically listed by Parker for that fitting unless authorised in writing by the chief engineer of the appropriate Parker division. Do not assemble a Parker fitting on another manufacturer's hose or a Parker hose on another manufacturer's fitting unless (1) the chief engineer of the appropriate Parker division approves the assembly in writing, and (2) the user verifies the assembly and the application through analysis and testing. See instruction 1.4 above.

The Parker published instructions must be followed for assembling the fittings on the hose. These instructions are provided in the Parker Fitting Catalogue for the specific Parker fitting being used.

3.3 Related Accessories: Do not crimp or swage any Parker hose or fitting with anything but the proper listed Parker swage or crimp machine and dies and in accordance with Parker published instructions. Do not crimp or swage another manufacturer's hose fitting with a Parker crimp or swage die unless authorised in writing by the chief engineer of the appropriate Parker division.

3.4 Parts: Do not use any Parker hose fitting part (including but not limited to socket and nipple) except with the correct Parker mating parts, in accordance with Parker published instructions, unless authorised in writing by the chief engineer of the appropriate Parker division.

3.5 Reusable Fittings: Do not reuse any reusable hose fitting that was blown or pulled off a hose. Do not reuse a Parker permanent hose fitting (that is, crimped or swaged) or any part thereof.

3.6 Minimum Bend Radius: Installation of a hose at less than the minimum listed bend radius may significantly reduce the hose life. Particular attention must be given to preclude sharp bending at the hose/fitting juncture.

3.7 Twist Angle and Orientation: Hose installations must be such that relative motion of machine components does not produce twisting.

3.8 Securement: In many applications, it may be necessary to restrain, protect, or guide the hose to protect it from damage by unnecessary flexing, pressure surges, and contact with other mechanical components. Care must be taken to ensure such restraints do not introduce additional stress or wear points.

3.9 Proper Connection of Ports: Proper physical installation of the hose requires a correctly installed port connection while ensuring that no twist or torque is transferred to the hose.

3.10 External Damage: Proper installation is not complete without ensuring that tensile loads, side loads, kinking, flattening, potential abrasion, thread damage, or damage to sealing surfaces are corrected or eliminated. See instruction 2.10.

3.11 System Checkout: All air entrapment must be eliminated and the system pressurised to the maximum system pressure and checked for proper function and freedom from leaks. Personnel must stay out of potential hazardous areas while testing and using.

3.12 Routing: Hose should be routed in such a manner that if a failure does occur, oil mist will not come into contact with hot surfaces, open flame, or sparks, and the chance of personal injury is minimised.

4.0 Hose and Fitting Maintenance Instructions

4.1 Even with proper selection and installation, hose life may be significantly reduced without a continuing maintenance program. Frequency should be determined by the severity of the application and risk potential. A maintenance program must be established and followed by the user and must include the following as a minimum

4.2 Visual Inspection of Hose/Fitting: Any of the following conditions require immediate shut down and replacement of the hose assembly:

- Fitting slippage on hose
- Damage, cut or abraded cover (any reinforcement exposed)
- Hard, stiff, heat cracked, or charred hose
- Cracked, damaged, or badly corroded fittings
- Leaks at fitting or in hose
- Kinked, crushed, flattened or twisted hose
- Blistered, soft, degraded, or loose cover.

4.3 Visual Inspection All Other: The following items must be tightened, repaired, removed or replaced as required:

- Leaking port conditions.
- Excess dirt build-up.
- Clamps, guards, shields
- System fluid level, fluid type and any air entrapment.

4.4 Functional Test: Operate the system at maximum operating pressure and check for possible malfunctions and freedom from leaks. Personnel must avoid potential hazardous areas while testing and using.

4.5 Replacement Intervals: Specific replacement intervals must be considered based on previous service life, industry recommendations, or when failures could result in unacceptable downtime, damage, or injury risk. See instruction 1.2.

4.6 Inspecting a Pressurised System: Hydraulic power is accomplished by utilising high-pressure fluids to do work. Hoses, fittings and hose assemblies all contribute to doing work by transmitting fluids at high pressures. Fluids under pressure can be dangerous and potentially lethal and, therefore, extreme caution must be exercised when working with fluids under pressure and handling the hoses transporting the fluids. Usually these failures are the result of some form of misapplication, abuse, or simply wear. When hoses fail, generally the high-pressure fluids inside escape in some sort of stream which may or may not be visible to the user. High-pressure fluids can and will penetrate the skin and cause severe tissue damage and possibly loss of limb. Even seemingly minor hydraulic fluid injection injuries must be treated by a physician with knowledge of the tissue damaging properties of hydraulic fluid.

If a hose failure occurs, immediately shut down the equipment and leave the area until pressure has been completely released from the hose assembly. Simply shutting down the hydraulic pump may or may not eliminate the pressure in the hose assembly. Many times check valves, etc., are employed in a system and can cause pressure to remain in a hose assembly even when pumps or equipment are not operating. Tiny holes in the hose, commonly known as pinholes, can eject small, dangerously powerful but hard to see streams of hydraulic fluid. It may take several minutes or even hours for the pressure to be relieved so that the hose assembly may be examined safely.

Once the pressure has been reduced to zero, the hose assembly may be taken off the equipment and examined. It must always be replaced if a failure has occurred. Never attempt to patch or repair a hose assembly that has failed. Consult the nearest Parker distributor or the appropriate Parker division for hose assembly replacement information.

Never touch or examine a failed hose assembly unless it is obvious that the hose no longer contains fluid under pressure. The high-pressure fluid is extremely dangerous and can cause serious and potentially fatal injury.

4.7 Refrigerant Gases: Special care should be taken when working with refrigeration systems. Sudden escape of refrigerant gases can cause blindness if the escaping gases contact the eye and can cause freezing or other severe injuries if it contacts any other part of the body.

For Your Safety!

Hose assemblies are used to transmit various kinds of fluids at considerable pressures. The critical zone of a hose assembly is the connection between flexible hose and rigid fitting (crimping area). Only the use of original polyflex® components (hose, fittings and tooling) and full compliance with the polyflex® assembly instructions can guarantee safety and conformity with standards.

When making and testing hose assemblies in connection with the respective field of application the guidelines and technical regulations as well as protection and hazard prevention rulings must be adhered to.

You as the manufacturer of polyflex® hose assemblies are obliged to mark the hose assemblies according to the regulations and to verify their safety by a final pressure test.

Non-compliance with these rules can lead to the failure of a hose assembly and the loss of warranty.



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FluidConnectors Europe Sales Offices

Parker Hannifin GmbH
Badener Straße 12
A - 2700 Wiener Neustadt
Tel: (+43) (0) (26 22) 23 501
Fax: (+43) (0) (26 22) 66 212

Parker Hannifin S.A.-N.V.
Parc Industriel Sud
Zone II
15, rue du Bosquet
B - 1400 Nivelles
Tel: (+32) (0) 67 280 900
Fax: (+32) (0) 67 280 999

Parker Hannifin s.r.o.
Dopravaku 723
CZ - 184 00 Prague 8
Tel: (+420) (0) (2) 830 85221
Fax: (+420) (0) (2) 830 85360

Parker Hannifin GmbH
Geschäftsbereich Ermeto
Am Metallwerk 9
D - 33659 Bielefeld
Tel: (+49) (0) (521) 4048-0
Fax: (+49) (0) (521) 4048-4280

Parker Hannifin GmbH
Fluid Verbindungsteile
Freiherr-vom-Stein-Straße 1
D - 35325 Mücke
Tel: (+49) (0) (6400) 922-0
Fax: (+49) (0) (6400) 922-102

Parker Hannifin GmbH
Geschäftsbereich Polyflex
An der Tuchbleiche 4
D - 68623 Lampertheim
Tel: (+49) (0) (6256) 81-0
Fax: (+49) (0) (6256) 81-100

Parker Hannifin Danmark A/S
Industrigrenen 11
DK - 2635 Ishøj
Tel: (+45) 43 56 04 00
Fax: (+45) 43 73 31 07

Parker Hannifin España S.A
P.I. Las Monjas -
C/.Estaciones, 8
E - 28850 Torrejón de Ardoz
(Madrid)
Tel: (+34) 91 675 73 00
Fax: (+34) 91 675 77 11

Parker Hannifin SA
17, Rue des Büchillons
Z.I. du Mt Blanc - BP 524
F - 74112 Annemasse Cedex
Tel: (+33) (0) 4 50 87 80 80
Fax: (+33) (0) 4 50 37 86 85

Parker Hannifin Oy
Ylästöntie 16
FIN - 01510 Vantaa
Tel: (+358) (0) (9) 476 731
Fax: (+358) (0) (9) 476 732 00

Parker Hannifin plc
Haydock Park Road
GB - Derby DE24 8JA
Tel: (+44) (0) 1332 36 56 31
Fax: (+44) (0) 1332 36 80 38

Parker Hannifin S.p.A.
Via Privata Archimede 1
I - 20094 Corsico (MI)
Tel: (+39) 02 451921
Fax: (+39) 02 4479340

Parker Sales Ireland Ltd
Bracetown Business Park
Clonee, County Meath
IE - Republic of Ireland
Tel: (+353) (0) (1)801 4010
Fax: (+353) (0) (1)801 4132

Parker Hannifin Corp.
701, Gateway Plaza
Hiranandani Garden, Powai
IN - Mumbai 400076
Tel: (+91) (0) (22)-5705881
Fax: (+91) (0) (22)-5705880

Parker Hannifin A/S
Berghagan - P.O. Box 3008
N - 1402 Ski
Tel: (+47) 64 91 10 00
Fax: (+47) 64 91 10 90

Parker Hannifin B.V.
Edisonstraat 1
Postbus 340
NL - 7570 AH Oldenzaal
Tel: (+31) (0) 541 585000
Fax: (+31) (0) 541 585459

Parker Hannifin Sp.z.o.o.
ul. Parowcowa 8B
PL - 02-445 Warszawa
Tel: (+48) (0) (22) 863 49 42
Fax: (+48) (0) (22) 863 49 44

Parker Hannifin Portugal,Lda
Travessa da Bateria,
184 - r/c Drto / 1° Esq.
PT - 4450-625 Leça da Palmeira
Tel: (+351) 22 9997360
Fax: (+351) 22 9961527

Parker Hannifin Corporation
Komsomolsky Prospect 42
Office 434
RU - 119827 GSP Moscow
G-48
Tel/Fax: (+7) (095) 234 0054

Parker Hannifin AB
Fagerstagatan 51
Box 8314
S - 16308 Spånga-Stockholm
Tel: (+46) (0) 8 5979 5000
Fax: (+46) (0) 8 5979 5110

Parker Hannifin Corporation
vul. Velyka Vasylykivska 9/2
Office 59
UA - 01004 Kiev
Tel: (+380) (44) 2207 432
Fax: (+380) (44) 2206 534

Internet: <http://www.parker.com/europe>

**For further information on other Parker Products, call the European Product Information Centre
free of charge on 00800 27 27 5374.**



Parker Hannifin GmbH
Geschäftsbereich Polyflex
An der Tuchbleiche 4
D - 68623 Lampertheim
Tel : 06256 81-0
Fax : 06256 81-100

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