



aerospace climate control electromechanical filtration fluid & gas handling hydraulics pneumatics process control sealing & shielding





Truck Hydraulics Innovative Products and System Solutions





ENGINEERING YOUR SUCCESS.

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Parker Hannifin Corporation ENGINEERING YOUR SUCCESS.



The Parker Brand Promise

Parker is the global leader in motion and control technologies, partnering with its customers to increase their productivity and profitability. A global Fortune 300 company with customers in 48 countries, Parker Hannifin is the world's leading supplier of hydraulic, pneumatic, and electromechanical systems and components. Customers rely on Parker for engineering excellence, world-class manufacturing and outstanding customer service to provide comprehensive application solutions that are second to none.

- More than USD 12.1 billion in sales
- 298 plants worldwide
- 12,000 distributors
- 449,000 customers
- Serving 1,200 distinct markets
- Listed as PH on the New York Stock Exchange

aerospace climate control electromechanical filtration

fluid & gas handling hydraulics pneumatics process control sealing & shielding

Dedication to the truck industry

The Parker Hannifin Corporation is the most dynamic hydraulics motion and control components and solutions provider in the truck industry. Parker hydraulics technology and components, including Chelsea product offerings, makes Parker the leading choice to fill your heavyduty truck needs. With our qualified factory support and network of distribution, being your single source supplier for components, kits and solutions has never been easier. Our truck hydraulics, market-focused staff is ready to assist you with application expertise, innovative designs and state-of-the-art manufacturing and engineering technology. Total systems capability makes Parker Hannifin today's complete supplier. Our customers can reduce their number of vendors without compromising quality, and buying from a single source saves both time and money.











Truck Hydraulics

Fluid Power/Truck Focus

Although Parker serves many industries including Aerospace, Construction, Agriculture, Mining, Automotive, Refrigeration, etc., we are exclusively concentrated on controlling fluid motion and pressure. We have created a market-focused hydraulics truck team to focus solely on the needs of the customers in various vocational truck markets.

Total Systems From the Ground Up

Parker will assist you to determine your component(s) and/or systems requirements and help design a solution. We have the ability to capture exact system details through our high levels of data acquisition. Parker's staff of highly qualified engineers - application engineers, research and development teams, and system solution specialists, assures you that nobody knows truck hydraulic applications and products better than Parker. Parker's extensive breadth of product line allows for unlimited solution possibilities. Our worldwide network manufacturing and distribution facilities ensures quick deliver of your engineered solution, from components to kits to entire system solutions.

Manufacturing

Parker continues to invest in our world class ISO 9001 certified manufacturing facilities. Our factories are equipped with the most modern technology to meet the demands of both quality and delivery. Our manufacturing is backed by a highly qualified engineering staff, working with today's latest tools and technology. This investment ensures that we maintain control of the manufacturing process and components, as well as the ability to look forward to new design ideas and solutions. Our truck hydraulic components are core to our business and investments. We do not outsource our components and solutions - we manufacture them.











Parker's Value Proposition







Parker's Value Proposition

Parker is the leading hydraulics supplier worldwide. We have a powerful reputation, unparalleled breadth of products, and world-class customer service. However, Parker's greatest distinguishing benefits can be found in its Value Proposition. Parker believes that it takes more than our great products, competitive prices, and on-time delivery to satisfy customer demands. It takes a commitment to provide exceptional value.

At Parker, value is not a commodity. It is the result of personal relationships built around the customer's use of Parker's extensive resources. Our customer services include:

- Truck Analysis and Troubleshooting
- Design-Engineering Support
- System Design
- Components Selection
- New Product Development
- Custom-Component Manufacturing
- Assemblies and Kits
- Sub-System Configuration
- Global Support and Service
- ISO Certification





Value Added Programs





Premier Customer Service

Parker's Premier Customer Service leads the industry in response. In addition to assured product quality, Parker provides engineering assistance, consolidated shipments, ontime delivery, extensive product information, and customer training. Our employees are empowered to do whatever it takes to meet or exceed customer expectations.

Field Sales Team

Parker's highly trained truck hydraulics field sales force provides knowledgeable assistance to your product and system requirements, working hand in hand with your local Parker distributor. These experts are strategically located throughout the world.

Kitting

In those instances where you require multiple components and sub-assemblies for a specific application, Parker offers the added benefit of a Kitting Service. Within a kit, everything you need is delivered in one convenient package, ready for installation.

Training

Parker is recognized as the industry leader in the development and presentation of technical training for hydraulic and pneumatic technology. We offer complete and comprehensive texts, along with hands-on classroom opportunities to our employees, distributors, and customers. This includes web based training, On site training, and classroom training at various Parker locations. Our focus is on a practical approach to training, stressing active participation to increase students' confidence and understanding of motion control technology.







Gear

GPA



- Low noise
- High efficiency
- **Bi-rotational**
- Compact design
- Low weight / Aluminium body
- Pressure and suction connection in the rear and on the side



| Frame Size GPA | 008 | 012 | 016 | 019 |
|-------------------------------------|------|------|------|------|
| Displacement (cm ³ /rev) | 8 | 12 | 16 | 19 |
| Max cont pressure (bar) | 250 | 250 | 250 | 230 |
| Max operating speed (rpm) | 2000 | 2000 | 2000 | 2000 |
| Weight (kg) | 4.6 | 4.8 | 5.1 | 5.3 |



Frame Size GP1

Weight (kg)

Displacement (cm³/rev)

Max. cont. pressure (bar)

Max. operating speed (rpm)

- Low noise
- High efficiency •
- **Bi-rotational** •
- **Exceptional durability**

029

29

240

2000

7.1

036

36

230

2000

7.5

041

41

210

2000

7.8

- Compact design •
- Low weight •

023

23

250

2000

6.7

019

19

260

2000

6.3

016

16

270

2000

6.0

Pressure and suction connection in the rear or on the side

046

46

200

2000

8.1

050

50

300

2000

12.5



| 060 | 070 | 080 | 100 | |
|------|------|------|------|--|
| 60 | 70 | 80 | 100 | |
| 280 | 240 | 200 | 170 | |
| 1800 | 1700 | 1600 | 1400 | |
| 13.0 | 13.5 | 14.0 | 15.0 | |

Valves





Motors

Compact Hydraulics

Power Take Off

Vane – SAE

Single



- 275 bar max pressure for T6CM. 240 bar for T6DM & T6EM
- Silent technology even under high pressure .
- Wide range of displacements •
- User friendly = easy conversions & evolutions
- Wide number of shafts available (SAE, ISO & specials)
- Double shaft seal option possible (T6CP, T6DP & T6EP)
- Rear drive train options available (SAE A, SAE B or SAE C)

zvp 01

| | | | | | | | | | | | | | 1 |
|--|-------------------|-------|------|------|------------|-------|-------|-------------|-------|-------|---------------------|------------|-------|
| Frame size TB | 003 | 004 | 005 | 006 | 800 | 009 | 011 | 012 | | | | | |
| Displacement (cm ³ /rev) | 8.8 | 12.8 | 16.0 | 20.7 | 26.1 | 31.5 | 35.6 | 39.7 | | | | | |
| Max cont pressure (bar) | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | | | | | |
| Max operating speed ¹ (rpm) | 3500 | 3500 | 3400 | 3400 | 3300 | 3300 | 3200 | 3200 | | | | | |
| Input power ² (kW) | 3.3 | 5.8 | 7.2 | 9.2 | 11.5 | 13.9 | 15.7 | 17.5 | | | | | |
| Weight (kg) | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | | | | | |
| | | | | | | | | | | | | | |
| Frame size T6CM | B03 | B05 | B06 | B08 | B10 | B12 | B14 | B17 | B20 | B22 | B25 | B28 | B31 |
| Displacement (cm ³ /rev) | 10.8 | 17.2 | 21.3 | 26.4 | 34.1 | 37.1 | 46.0 | 58.3 | 63.8 | 70.3 | 79.3 | 88.8 | 100.0 |
| Max cont pressure (bar) | 240 | 240 | 240 | 240 | 240 | 240 | 240 | 240 | 240 | 240 | 240 | 160 | 160 |
| Max operating speed ¹ (rpm) | 2800 | 2800 | 2800 | 2800 | 2800 | 2800 | 2800 | 2800 | 2800 | 2800 | 2500 | 2500 | 2500 |
| Input power ² (kW) | 5.3 ³⁾ | 12.2 | 14.7 | 17.7 | 22.3 | 24.1 | 29.5 | 36.9 | 40.2 | 44.1 | 49.5 | 48.54) | 54.44 |
| Weight (kg) | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 |
| | | | | | | | | | | | | | |
| Frame size T6DM | B14 | B17 | B20 | B24 | B28 | B31 | B35 | B 38 | B42 | B45 | B50 | | |
| Displacement (cm ³ /rev) | 47.6 | 58.2 | 66.0 | 79.5 | 89.7 | 98.3 | 111.0 | 120.3 | 136.0 | 145.7 | 158.0 | | |
| Max cont pressure (bar) | 210 | 210 | 210 | 210 | 210 | 210 | 210 | 210 | 210 | 210 | 160 | | |
| Max operating speed ¹ (rpm) | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 | 2200 | 2200 | 2200 | | |
| Input power ² (kW) | 30.6 | 37.0 | 41.7 | 49.8 | 55.9 | 61.0 | 68.7 | 74.3 | 83.7 | 89.5 | 85.0 ⁴) | | |
| Weight (kg) | 24.0 | 24.0 | 24.0 | 24.0 | 24.0 | 24.0 | 24.0 | 24.0 | 24.0 | 24.0 | 24.0 | | |
| | | | | | | | | | | | | | |
| Frame size T6EM | 042 | 045 | 050 | 052 | 054 | 057 | 062 | 066 | 072 | | | | |
| Diaple compart (am3/rev) | 100.0 | 140.4 | 1505 | 1010 | 1710 | 100.0 | 100 7 | 010.0 | 007 1 | | | | |

| | VTL | 040 | 000 | UUL | 004 | 001 | 002 | 000 | 012 |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Displacement (cm ³ /rev) | 132.3 | 142.4 | 158.5 | 164.8 | 171.0 | 183.3 | 196.7 | 213.3 | 227.1 |
| Max cont pressure (bar) | 210 | 210 | 210 | 210 | 210 | 210 | 210 | 210 | 210 |
| Max operating speed ¹ (rpm) | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 |
| Input power ² (kW) | 82.6 | 88.7 | 98.3 | 102.1 | 105.8 | 113.2 | 121.3 | 131.2 | 139.5 |
| Weight (kg) | 43.3 | 43.3 | 43.3 | 43.3 | 43.3 | 43.3 | 43.3 | 43.3 | 43.3 |

1) Shaft speed for petroleum based fluids. For higher speeds. please contact Parker 4) 210 bar max

2) 1500 rpm at 240 bar (except TB at 175 bar) 3) 140 bar

Double



Triple



| 5 | 4 | |
|---|---|---|
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| 6 | 1 | Ľ |
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| | 3 | |
| U | Ð | |
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| | | |



- Very low noise
- SAE or ISO standards •
- One piece shaft (no internal torque limitations)
- Single common inlet
- 32 porting orientations available, 16 different double pump frames
- 819 displacement possibility (from 10.8 to 227.1 cm³/rev) with a max displacement of 454.2 cm³/rev
- Displacement combinations with above T6CM T6DM & T6EM
- High power to weight ratio
- Wide range of options available = different shafts, threads, pilots •
- Double shaft seal option available (T6CCP, T6DCP, T6ECP & T6EDP)
- Special shafts for tractors (J718c) T6CCMW, T6DCMW, T6ECM & T6EDM)
- Very low noise ٠
- Single common inlet
- 128 porting orientations available
- 6766 displacement combinations (from 10.8 to 227.1 cm³/rev) with a max displacement of 552 cm³/rev
 - One piece shaft (no internal torque limitation)
- · High power to weight ratio
- 15 different triple pump frames available

Pumps

Filtration

Vane

Single & Double





- Special PTO shaft DIN 5462
- Silent technology
- Designed for radial load capability
- Flexibility in the porting
- Two pilot options = 4 bolts Ø 80.0 or 3 bolts Ø 52.0
- Maximum working pressure 275 bar
- Double pump available (T6GCC)

| C.C. | |
|------|----|
| zvp | 01 |

| Frame size T6GC - T6ZC | B03 | B05 | B 06 | B 08 | B10 | B12 | B14 | B17 | B20 | B22 | B25 | B28 | B31 |
|--|------|------|-------------|-------------|---------|--------|----------|-------|---------|------|------|------------|-------|
| Displacement (cm ³ /rev) | 10.8 | 17.2 | 21.3 | 26.4 | 34.1 | 37.1 | 46.0 | 58.3 | 63.8 | 70.3 | 79.3 | 88.8 | 100.0 |
| Max cont pressure (bar) | 240 | 240 | 240 | 240 | 240 | 240 | 240 | 240 | 240 | 240 | 240 | 160 | 160 |
| Max operating speed ¹ (rpm) | 2800 | 2800 | 2800 | 2800 | 2800 | 2800 | 2800 | 2800 | 2800 | 2800 | 2500 | 2500 | 2500 |
| Max input power ² (kW) | - | 12.2 | 14.7 | 17.7 | 22.3 | 24.1 | 29.5 | 36.9 | 40.2 | 44.1 | 49.5 | 48.5 | 54.4 |
| Weight (kg) | | | | T60 | GC = 18 | .0 T6Z | ZC = 14. | 0 T6G | CC = 27 | .2 | | | |

1) Shaft speed for petroleum based fluids. For higher speeds, please contact Parker Denison

2) 1500 rpm at 240 bar

Vane – Cardan Shaft

Double – T6CCZ



- High radial & axial loads capabilities
- 3 different keyed shafts available
- One inlet
- Displacements = on P1 from 10 to 100 cm³/rev & P2 from 10 to 100 cm³/rev
- Pressure: up to 275 bar on P1 & P2



9

Axial Piston



- Intermittent pressures up to 400 bar
- · High power capability
- High shaft speed
- Low weight
- Bi-directional
- Volumetric efficiency 98 %
- Also SAE-B available sizes 25 up to 61



| Frame size F1 | 25 | 41 | 51 | 61 | 81 | 101 |
|-------------------------------------|------|------|------|------|------|-------|
| Displacement (cm ³ /rev) | 25.6 | 40.9 | 51.1 | 59.5 | 81.6 | 102.9 |
| Max cont pressure (bar) | 350 | 350 | 350 | 350 | 350 | 350 |
| Max operating speed* (rpm) | 2700 | 2700 | 2700 | 2700 | 2300 | 2300 |
| Max operating speed** (rpm) | 2600 | 2400 | 2200 | 2200 | 2000 | 1800 |
| Input torque at 350 bar (Nm) | 142 | 227 | 284 | 331 | 453 | 572 |
| Max cont input power (kW) | 31 | 46 | 52 | 61 | 76 | 86 |
| Weight (kg) | 8.5 | 8.5 | 8.5 | 8.5 | 12.5 | 12.5 |

* Unloaded pump (BPV) ** In service 350 bar



- Twin Flow / Dual displacement
- High power capability
- High shaft speed
- Easy to install
- Smart System Solutions
- Proven reliability



| Frame size F2 | 42/42 | 55/28 | 53/53 | 70/35 | 70/70 |
|-------------------------------------|-------|-------|-------|-------|-------|
| Displacement (cm ³ /rev) | 43/41 | 54/52 | 55/28 | 69/36 | 68/68 |
| Max cont pressure (bar) | 350 | 350 | 350 | 350 | 300 |
| Max operating speed* (rpm) | 2550 | 2550 | 2550 | 2550 | 2550 |
| Max operating speed** (rpm) | 1800 | 1800 | 1800 | 1800 | 1650 |
| Input torque at 350 bar (Nm) | 467 | 461 | 589 | 583 | 648 |
| Max cont input power (kW) | 88 | 88 | 110 | 110 | 112 |
| Weight (kg) | 19 | 19 | 19 | 19 | 19 |

* Unloaded pump (BPV) ** In service 350 bar



- - Pressures up to 350 bar
 - Shaft speed to 2300 rpm
 - High overall efficiency
 - Bi-directional
 - Proven reliability



| Frame size T1 | 51 | 81 | 121 |
|-------------------------------------|------|------|-------|
| Displacement (cm ³ /rev) | 50.0 | 81.5 | 118.5 |
| Max cont pressure (bar) | 200 | 200 | 200 |
| Max operating speed* (rpm) | 2300 | 2300 | 2300 |
| Max operating speed** (rpm) | 2100 | 2000 | 1600 |
| Input torque at 200 bar (Nm) | 158 | 258 | 375 |
| Max cont input power (kW) | 27 | 54 | 71 |
| Weight (kg) | 7.2 | 8.5 | 12.5 |

* Unloaded pump (BPV)

** In service 350 bar

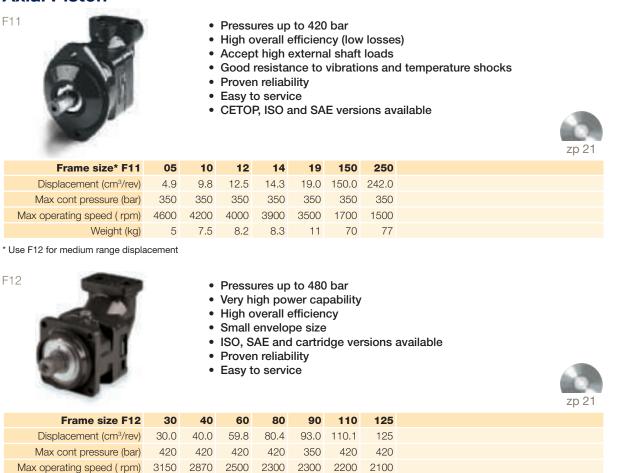


Comp Hydrau

Filtration

Pneumatic

Axial Piston



BLA



Weight (kg)

12

16.5

21

The boost unit provides filtration and make-up fluid to replace pump and motor volumetric losses, while maintaining sufficient pump inlet pressure to avoid cavitation. The semi-closed system could be built with a smaller and lighter reservoir at the same time as, the pump speed is possible to increase. The Boost Units BLA are available in two different sizes:

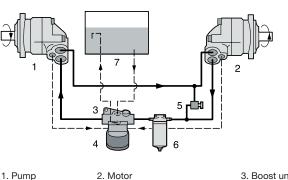
BLA 4 for flow 25–160 litres per minute, BLA 6 for flow 150–400 litres per minute.

26

26

36

36



5. Pressure relief valve

Boost unit (with injector and nozzle)
 Full-flow filter (when required)



4. Filter cartridge

7. Reservoir

Pumps - Variable Displacement

| Axial Piston | | • • • | Suitat Spline Light Moun Strong | ble for a d shaft and con ting flan g and re | nge and shaft meet the ISO Standard |
|-------------------------------------|-------|-------------|---|--|-------------------------------------|
| Frame size* VP1 | 45 | 75 | 95 | 120 | |
| Displacement (cm ³ /rev) | 45 | 75 | 95 | 120 | |
| Max cont pressure (bar) | 350 | 350 | 400 | 360 | |
| Max operating speed (rpm) | 2400* | 2200* | 2200** | 1900* | |
| Input power (kW) | 63 | 96 | 139 | 137 | |
| Weight (kg) | 27 | 27 | 27 | 27 | |

* 2 1/2" suction line ** 3" suction line



Axial Piston & Fixed Vane Combination

Double & Triple



- Variable piston & vane pump combination
- Wide range of displacements:
 Variable piston unit of 42 cm³/rev (SAE B) or 62 cm³/rev (SAE C)
 Vane unit from 6 cm³/rev to 158 cm³/rev
- One inlet, one shaft (no internal torque limitations)
- Pressure controls (standard, ventable & ventable by electronic valve, load sensing)
- Very compact unit
- Splined & keyed shafts available
- 10 frame size available

Comp Hydrau

Pneumatic





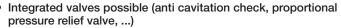
Motors - Fixed Displacement

Vane

Fan – M5



- Heavy duty bearing
- High overall effiency



- Low noise
- Bi-rotational technology
- Internal or external drain possible with the uni-rotational option

| (| 62 | 9 | |
|---|-----|----|--|
| 1 | zvp | 01 | |

DENISON[®]

| Frame size M5AF | 006 | 010 | 012 | 016 | 018 | 025 | M5BF | 012 | 018 | 023 | 028 | 036 | 045 | 050 |
|--|------|------|------|------|------|-------|------|------|------|-------|-------|-------|-------|-------|
| Displacement (cm ³ /rev) | 6.3 | 10.0 | 12.5 | 16.0 | 18.0 | 25.0 | | 12.0 | 18.0 | 23.0 | 28.0 | 36.0 | 45.0 | 50.0 |
| Max cont pressure (bar) | 300 | 300 | 300 | 300 | 300 | 280 | | 290 | 290 | 290 | 290 | 290 | 260 | 260 |
| Max operating speed ¹ (rpm) | 4000 | 4000 | 4000 | 4000 | 4000 | 2500 | | 4000 | 4000 | 3000 | 3000 | 3000 | 2500 | 2500 |
| Max output torque ² (Nm) | 26.1 | 43.8 | 55.7 | 72.4 | 82.0 | 107.5 | | 50.6 | 81.2 | 117.1 | 132.1 | 172.8 | 190.0 | 211.0 |
| Output power ² (kW) | 5.5 | 9.1 | 11.7 | 15.1 | 17.1 | 22.5 | | 10.6 | 17.0 | 24.5 | 27.7 | 36.2 | 39.8 | 44.0 |
| Weight (kg) | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | | 18.5 | 18.5 | 18.5 | 18.5 | 18.5 | 18.5 | 18.5 |

1) Max shaft speed at max pressure

2) Output at 2000 rpm, 24 cSt & M5B* at 320 bar, 045 & 050 at 280 bar, M5AF at 300 bar

Gerotor



ТG



Frame size TE

Frame size TE Displacement (cm³/rev)

Displacement (cm³/rev)

Max cont pressure (bar)

Max operating speed (rpm)

Weight. code L and H (kg)

Max cont pressure (bar)

Max operating speed (rpm)

Weight. code L and H (kg)

Max cont output torque (Nm)

Max cont output torque (Nm)

0036

36

140

55

6.7

0330

328

100

228

443

9.1

1141

0045

41

140

1024

71

6.8

0365

370

95

203

467

9.4

•

•

- High volumetric efficiency
- Long life

0050

49

140

1020

90

6.9

392

85

191 445

9.6

Long life

0390

- Full flow spline cooling
- High pressure shaft seal
- High flow shaft seal cooling

0080

82

140

695

160

7.1

- High starting torque
- High side load capacity

0065

65

140

877

125

7.0

· High volumetric efficiency

Full flow spline cooling

High pressure shaft seal High flow shaft seal cooling High starting torque High side load capacity

Balanced performance in both directions of rotation

0130

130

140

438

255

7.6

0165

163

140

348

310

7.8

0195

195

140

292

390

8.1

0230

228

120

328

380

8.3

0260

260

110

287

400

8.6

0100

98

140

582

190

7.2



293

100

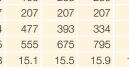
256

428

8.8

zm 06

| Frame size TG | 0140 | 0170 | 0195 | 0240 | 0280 | 0310 | 0335 | 0405 | 0475 | 0530 | 0625 | 0785 | 0960 |
|-------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Displacement (cm ³ /rev) | 141 | 169 | 195 | 238 | 280 | 310 | 337 | 405 | 477 | 528 | 623 | 786 | 959 |
| Max cont pressure (bar) | 207 | 207 | 207 | 207 | 207 | 207 | 207 | 172 | 138 | 138 | 121 | 103 | 69 |
| Max operating speed (rpm) | 660 | 554 | 477 | 393 | 334 | 303 | 277 | 232 | 237 | 213 | 182 | 143 | 118 |
| Max cont output torque (Nm) | 390 | 475 | 555 | 675 | 795 | 924 | 965 | 940 | 885 | 980 | 985 | 1045 | 775 |
| Weight code H and V (kg) | 14.6 | 14.8 | 15.1 | 15.5 | 15.9 | 16.1 | 16.3 | 16.9 | 17.5 | 18.3 | 19.0 | 20.5 | 22.2 |





Motors

Pumps

Valves

Motors - Fixed Displacement

Gerotor

ΤK

F1

F11



- · High volumetric efficiency
- Flow through internal spline and shaft seal cooling •
- High pressure shaft seal / no drainline
- High starting torque •
- · High side load capacity

Pressures up to 350 bar

Very low weight

Long life

• •



| Frame size TK | 0250 | 0315 | 0400 | 0500 | 0630 | 0800 | 1000 |
|-------------------------------------|------|------|------|------|------|------|------|
| Displacement (cm ³ /rev) | 250 | 315 | 400 | 500 | 630 | 800 | 1000 |
| Max cont pressure (bar) | 241 | 241 | 207 | 207 | 207 | 190 | 172 |
| Max operating speed (rpm) | 523 | 413 | 373 | 298 | 237 | 276 | 218 |
| Max cont output torque (Nm) | 814 | 1029 | 1153 | 1439 | 1617 | 1916 | 2413 |
| Weight (kg) | 30.8 | 31.4 | 32.3 | 33.2 | 34.5 | 36.0 | 37.9 |

Axial Piston





| | | | | | | | | 2010 |
|-------------------------------------|------|------|------|------|------|-------|-------|------|
| Frame size F1 | 25-M | 41-M | 51-M | 61-M | 81-M | 101-M | 121-M | |
| Displacement (cm ³ /rev) | 25.6 | 40.9 | 51.1 | 59.5 | 81.6 | 102.9 | 118.5 | |
| Max cont pressure (bar) | 250 | 250 | 250 | 250 | 250 | 250 | 250 | |
| Max operating speed (rpm) | 3000 | 2700 | 2400 | 2200 | 2000 | 1800 | 1700 | |
| utput torque at 200 bar (Nm) | 81 | 130 | 162 | 189 | 259 | 327 | 376 | |
| Output power (kW) | 20 | 27 | 31 | 34 | 41 | 48 | 51 | |
| Weight (kg) | 8.5 | 8.5 | 8.5 | 8.5 | 12.5 | 12.5 | 12.5 | |
| | | | | | | | | |

Positive synchronization with timing gear

· High overall efficiency withstand high acceleration

Shaft end and mounting flange meet the ISO standard for all sizes

- · Very high operating speeds and fast accelerations
- Anti cavitation valve available
- Pressures up to 420 bar
- High overall efficiency (low losses)
- Accept high external shaft loads
- Good resistance to vibrations and temperature shocks
- Proven reliability
- Easy to service
- CETOP, ISO and SAE versions available



zp 21

| | | | | | | | | I- |
|-------------------------------------|-------|-------|------|------|------|-------|-------|----|
| Frame size* F11 | 05 | 10 | 12 | 14 | 19 | 150 | 250 | |
| Displacement (cm ³ /rev) | 4.9 | 9.8 | 12.5 | 14.3 | 19.0 | 150.0 | 242.0 | |
| Max cont pressure (bar) | 350 | 350 | 350 | 350 | 350 | 350 | 350 | |
| Max operating speed (rpm) | 12800 | 10200 | 9400 | 9000 | 8100 | 3200 | 2700 | |
| Output torque at 100 bar (Nm) | 7.8 | 15.6 | 19.8 | 22.7 | 30.2 | 238 | 384 | |
| Weight (kg) | 5 | 7.5 | 8.2 | 8.3 | 11 | 70 | 77 | |

* Use F12 for medium range displacement



Max cont pressure (bar)

Max operating speed (rpm)

Output torque at 100 bar (Nm)

- · Very high operating speeds and
- High starting torque
- Very high power capability •
- High overall efficiency •
- Small envelope size •

60

59.8

420

5300

94.9

21

40

40.0

420

6100

63.5

16,5

30

30.0

420

6700

47.6

12

- · Accessory valves available
- ISO, SAE and cartridge versions available
- Proven reliability
- · Easy to service

125

125

420

4200

198

36

 Super-shockless swing relief valve

Weight (kg)



Motors

Pumps

Accumulators

| fast accelerations | |
|---|--|
| Pressures up to 480 bar | |
| 1 M 1 M 1 M | |

80

80.4

420

4800

128

26

90

93.0

350

4600

148

26

110

420

4400

175

36

110.1

Compact Hydraulics

Hand Pump Series 700

With Built-in 4-way Valve



Series 108

• Pressures up to 175 bar

- 8.2 cm³/stroke
- Operating Range: -40 to +70 °C (Depending on Fluid Used)
- Very Compact Size
- Excellent Backup Power Supply
- Up to 61 cm Handle Available



zu 01



Series 165

- AC or DC motor
- 4 pump sizes up to 3 l/min •
- Single or bidirectional rotation •
- Fixed relief valve
- · Locking check valves available on all models
- · Variety of hydraulic circuits
- Reservoirs from 0.45 to 5.5 litres
- 241 bar rating
- - 0,75 kW, 12 VDC electric motor
 - 3 pump sizes (0.52, 0.82 and 1.06 cm³/rev)
 - Variety of circuits
 - Many reservoir choices
 - Up to 240 bar operating pressure
 - · Soft seat load hold check valves
 - · Vertical or horizontal mounting







- Numerous motors to 1.5 kW
- 6 pump sizes flows from 1 to 11.4 l/min
- Externally adjustable relief valve
- Variety of reservoirs
- Operating pressure to 210 bar
- NG6 pad or standard P and T ports





Pumps

Fluid Connectors





zu 06

Allison World Transmissions Power Take-Offs



267



- Constant Mesh (non-shiftable) PTO ideal for applications requiring continuous power
- · Five speed ratios and a wide range of output options available
- SuperTorque[™] gears available for 20 % higher intermittent torque ratings
- No backlash to adjust
- Tapered cone bearings for high torque rating and long service life

| Series 267 | В | D | G | м | S | SB* | SD* | SG* | SM* | SS* | |
|--|-----|-----|-------|-----|-------|-------|-----|-------|-----|-------|--|
| Standard Output Shaft Size | 1¼" | 1¼" | 11⁄4" | | 11⁄4" | 11/4" | 1¼" | 11⁄4" | 1¼" | 11⁄4" | |
| Intermittent Torque Rating (Nm) | 325 | 325 | 300 | 265 | 250 | 545 | 529 | 488 | 431 | 359 | |
| Power Rating for Intermittent Service: at 500 rpm of Output Shaft | 24 | 23 | 21 | 19 | 18 | 29 | 28 | 26 | 23 | 19 | |
| at 1000 rpm of Output Shaft (kW) | 48 | 46 | 43 | 38 | 36 | 57 | 56 | 51 | 45 | 38 | |

* SuperTorque[™]

277



- Exceeds the torque capacity of a 6-bolt PTO while offering the tighter sealing of a 10-bolt pattern
- Five speed ratios and a wide range of output options available
- SuperTorque™ gears available for 20 % higher intermittent torque ratings
 Electronic Overspeed Control available to protect driven equipment from overspeeding
- Tapered cone bearings for high torque rating and long service life

| Series 277 | В | D | G | М | S | SB* | SD* | SG* | SM* | SS* | |
|--|---------|---------|-----|-------|-----|-----|-----|-------|-----|-----|--|
| Standard Output Shaft Size | 1¼" | 11⁄4" | 1¼" | 11⁄4" | 1¼" | 1¼" | 1¼" | 11⁄4" | 1¼" | 1¼" | |
| Intermittent Torque Rating (Nm) | 454 | 441 | 407 | 359 | 339 | 545 | 529 | 488 | 431 | 359 | |
| Power Rating for Intermittent Service: at 500 rpm of Output Shaft | | 23 | 21 | 19 | 18 | 29 | 28 | 26 | 23 | 19 | |
| at 1000 Worth Pressure Litues leaft (WWW | Standar | d Lubie | 43 | 38 | 36 | 57 | 56 | 51 | 45 | 38 | |

* SuperTorque™



- Highest torque capacities of any PTO offered for the Allison World transmissions
- PTO Torque ratings from 386 to 780 Nm
- Electronic Overspeed Control available to protect driven equipment from overspeeding
- Advanced gear design for increased tooth-contact ratio for quieter operation

| Series 859 | G | J | М | R | S | т | W |
|---|-----|-----|-----|-----|----------|-----------|--------|
| Standard Output Shaft Size | | | | 11/ | ź" 10 sp | line with | 1410 · |
| Intermittent Torque Rating (Nm) | 780 | 712 | 664 | 563 | 522 | 475 | 386 |
| Power Rating for Intermittent Service: at 500 rpm of Output Shaft | | 37 | 35 | 30 | 27 | 25 | 20 |
| at 1000 rpm of Output Shaft (kW) | 82 | 75 | 70 | 59 | 55 | 50 | 41 |

867



- Constant Mesh (non-shiftable) PTO ideal for applications requiring continuous power
- Four speed ratios and five output options
- Torque ratings from 475 to 780 Nm

| Series 867 | G | М | R | т | |
|--|-----|-----|-----|-----|----------------------------------|
| Standard Output Shaft Size | | | | | 11/2" 10 spline with 1410 flange |
| Intermittent Torque Rating (Nm) | 780 | 664 | 563 | 475 | |
| Power Rating for Intermittent Service: at 500 rpm of Output Shaft | 41 | 35 | 30 | 25 | |
| at 1000 rpm of Output Shaft (kW) | 82 | 70 | 59 | 50 | |



Motors

Filtration

Pneumatic

Fluid Connectors

16

Powershift ("Shift-on-the-go") Power Take Offs

230/231



| ٠ | Optional | Internal | Self-Adjusting | Shaft Brake | |
|---|----------|----------|----------------|-------------|--|
|---|----------|----------|----------------|-------------|--|

- Electric-over-air shifting
- 231 offers low profile housing for avoiding clearance problems
- Pressure lubrication option available for both units



CHELSEA[®]

| Series 230/231 | 230 ¹⁾ A,B,D,K & Q | 230 ²⁾ A,B,D,K & Q | 231 ¹⁾ A,B,D,K & Q | 231 ²⁾ A,B,D,K & Q |
|--|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| Standard Output Shaft Size | 11⁄4" | 11⁄4" | 11⁄4" | 11⁄4" |
| Intermittent Torque Rating (Nm) | 407 | 339 | 339 | 305 |
| Power Rating for Intermittent Service: at 500 rpm of Output Shaft | 21 | 18 | 18 | 16 |
| at 1000 rpm of Output Shaft (kW) | 43 | 36 | 36 | 32 |

¹⁾ With Pressure Lube ²⁾ With Standard Lube

236



- Optional Internal Self-Adjusting Shaft Brake
- Wide selection of input gears for virtually all currently produced transmissions
- Helical gears and optional pressure lubrication to extend PTO service life
 Inspection cover for adjusting backlash

| Series 236 | D, K & Q | U |
|--|----------|-------|
| Standard Output Shaft Size | 1¼" | 11⁄4" |
| Intermittent Torque Rating (Nm) | 339 | 305 |
| Power Rating for Intermittent Service: at 500 rpm of Output Shaft | | 16 |
| at 1000 rpm of Output Shaft (kW) | 36 | 32 |

270/271



| • | Designed | for | automatic | transmissions |
|---|----------|-----|-----------|---------------|
|---|----------|-----|-----------|---------------|

- Electric-over-hydraulic shifting
- 271 offers low profile housing for avoiding clearance problems
- Pressure lubrication available for both units

| Series 270/271 | 270 ¹⁾ A, B, D & K | 270 ²⁾ A, B, D & K | 271 ³⁾ A, B, D & K | |
|--|-------------------------------|-------------------------------|-------------------------------|--|
| Standard Output Shaft Size | 11⁄4" | 11⁄4" | 11⁄4" | |
| Intermittent Torque Rating (Nm) | 407 | 339 | 339 | |
| Power Rating for Intermittent Service: at 500 rpm of Output Shaft | 21 | 18 | 18 | |
| at 1000 rpm of Output Shaft (kW) | 43 | 36 | 36 | |
| ¹⁾ With Pressure Lube ²⁾ With Standard Lube | | | | |

Mechanical 6 & 8 Bolt Power Take-Offs

442



· Engineered to work with virtually all existing transmission applications

- Economical workhorse features a cast iron housing
- Tapered cone bearings for high torque rating and long service life
- · Slip fit idler pin for easy interchange from one transmission to another
- Easy to set backlash
- Wide range of shift and output options
- Now available on the Allison 1000, 2000/2400 Transmissions

| Series 442 | Α | С | F | н | L | Q | R | S | U | W | Х | |
|--|-------|-------|-------|-----|-------|-------|-----|-----|-----|-------|-----|--|
| Standard Output Shaft Size | 11⁄4" | 11⁄4" | 11⁄4" | 1¼" | 11⁄4" | 11⁄4" | 1¼" | 1¼" | 1¼" | 11⁄4" | 1¼" | |
| Intermittent Torque Rating (Nm) | 339 | 339 | 339 | 339 | 339 | 305 | 305 | 271 | 264 | 237 | 190 | |
| Power Rating for Intermittent Service: at 500 rpm of Output Shaft | 18 | 18 | 18 | 18 | 18 | 16 | 16 | 14 | 14 | 12 | 10 | |
| at 1000 rpm of Output Shaft (kW) | 36 | 36 | 36 | 36 | 36 | 32 | 32 | 28 | 28 | 25 | 20 | |



Motors

Filtration

Mechanical 6 & 8 Bolt Power Take-Offs





- 442 Series family, but with an 8-bolt mounting flange
 No adapter plate needed
- Less installation time, less expense and less chance of leakage
- Wide range of shifters options and pump flanges



| Series 489 | Α | С | F | н | L | Q | R | S | U | W | Х |
|--|-----|-------|-----|-----|-----|-----|-----|-----|-------|-------|-----|
| Standard Output Shaft Size | 1¼" | 11⁄4" | 1¼" | 1¼" | 1¼" | 1¼" | 1¼" | 1¼" | 11⁄4" | 11⁄4" | 1¼" |
| Intermittent Torque Rating (Nm) | 339 | 339 | 339 | 339 | 339 | 305 | 305 | 271 | 264 | 237 | 190 |
| Power Rating for Intermittent Service: at 500 rpm of Output Shaft | 18 | 18 | 18 | 18 | 18 | 16 | 16 | 14 | 14 | 12 | 10 |
| at 1000 rpm of Output Shaft (kW) | 36 | 36 | 36 | 36 | 36 | 32 | 32 | 28 | 28 | 25 | 20 |



880

912

- Wide coverage for tough applications
- Speed ratios for high and low speed applications
- Removable shift cover for adjusting backlash
- Dual-pump output for mounting a pump on each end of the PTO

| Series 800 | В | D | G | J | М | Q | R | Т |
|--|-----|-----|-----|-----|----------|-----------|-----------|-----|
| Standard Output Shaft Size | | | | 1½" | 10 splir | ne with 1 | 1410 flar | nge |
| Intermittent Torque Rating (Nm) | 678 | 678 | 678 | 678 | 678 | 610 | 542 | 475 |
| Power Rating for Intermittent Service: at 500 rpm of Output Shaft | | 36 | 36 | 36 | 36 | 32 | 28 | 25 |
| at 1000 rpm of Output Shaft (kW) | 71 | 71 | 71 | 71 | 71 | 64 | 57 | 50 |

Split Shaft Power Take-Offs

• Three 8-Bolt openings that allow you to operate a variety of auxiliary equipment

- Wide variety of 6-Bolt, 8-Bolt, PowerShift and Reversible PTO's fit the 912 Series
- Air and Lever shift available



- Smaller version of the 912 Series with three 6-bolt openings
- Designed for Class 3, 4, 5 and 6 trucks with automatic and manual transmissions with no PTO openings or trucks requiring additional PTO's
 - A wide range of 6-bolt and reversible PTO's will fit on the 941

| | Serie | es 941 |
|---|------------------|---------|
| Standard Output Shaft Size | 1 1/2" 12 spline | |
| Max Thru Torque Capacity w/Diesel Engine: Automatic Transmission | 3100 lbs ft | 4203 Nm |
| Manual Transmission | 2900 lbs ft | 3932 Nm |
| Max Thru Torque Capacity w/Gas Engine: Automatic Transmission | 4200 lbs ft | 5694 Nm |
| Manual Transmission | 3900 lbs ft | 5288 Nm |



Motors

Filtration

Fluid Connectors

Rear Mount Power Take-Offs

522

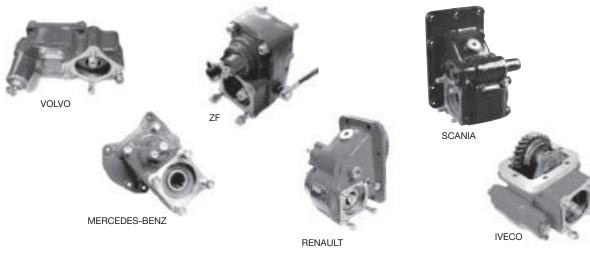




- · Designed for ZF, Eaton and Iveco transmissions
- Direct mount pump flanges available
- Installation is quick and easy
- Internal shift mechanism to protect transmission



| Series 522 | т | v |
|--|------------------|------------|
| | Rear Mount | Rear Mount |
| Standard Output Shaft Size | 1-1/4" [31.75mm] | Keyed |
| Intermittent Torque Rating (Nm) | 350 | 350 |
| Power rating for Intermittent Service At 500 rpm of the Output Shaft (kW) | 18 | 18 |
| At 1000 rpm of the Output Shaft (kW) | 37 | 37 |



Parker PTO's

Parker's power take-off units are designed to meet the requirement of the majority of today's truck applications. The PTO range covers a great many trucks and is being continually updated to fit new gearboxes. The PTO's are used in a variety of applications such as Tippers, Hook Loaders, Skip Loaders and Cranes, and are specifically designed to close-couple pumps with the current ISO-Standard mounting flange. Alternatively, the units can be fitted with our cardan shaft adaptor to enable them to be used for a wide range of propshaft driven applications.

- Tailor made for the Parker Truck Hydraulics pumps
- Possibility to close-couple any ISO-standard pump
- Shaft-driven adaptor for other applications
- Competitively priced
- · Easy to install
- Electrical indicator available on latest PTO's.

Parker can, with its range of PTO units, the F1, F2, T1 and VP1 truck pumps and a great number of accessories, offer the total truck hydraulic package. Parker have become synonymous with extraordinary quality. Many body builders and chassis manufacturers now include our products as a standard part of their programme.



Motors



Directional Control Valves

Pumps

Fluid Connectors



VO40



Directional control valves known for good manoeuvrability and high performance. Section-built for maximum flexibility and integrated functions to simplify the machine layout. Valves for all types of systems such as open centre, constant pressure and load sensing are available. The valves can be adapted to a wide range of application with different level of demands. This is just a selection of our wide range of valves. Parker valves can be obtained with a large number of optional components and mountings such as:

- · Options for variable or fixed pumps discplacement
- Pump unloading with blocked pump channel for emergency stop
- For single or multi-pump operation
- For single or multi-valve operation
- Counter pressure valve
- Pressure relief valve
- Port relief valves with or without anti cavitation function
- Anti cavitation valves
- Application adapted spools
- Load check valve
- Port specific force feedback
- Sections with pressure compensators

(Options vary for different valves)

F130CF



L90LS





| Operation | | | | | | | |
|-----------|-----------------|--------------|--------|-----------|-----------|------------------|--|
| Valve | Pump Flow I/min | Pressure bar | Manual | Pneumatic | Hydraulic | Electrohydraulic | |
| VO40 | 40 | 300 | Х | Х | Х | Х | |
| P70CF | 70 | 320 | Х | Х | Х | Х | |
| P70LS | 90 | 320 | | | Х | Х | |
| F130CF | 110 | 320 | Х | Х | Х | Х | |
| L90LS | 200 | 320 | Х | Х | Х | Х | |



Remote Control System

System Type Control pressure range

Control flow

Control curves with straight characteristics Friction brake for retention in any position

Mechanical end-position detent

Pneumatic

Hydraulic

PCL4



The VP04 is a pneumatic pilot valve for the proportional remote control of directional control valves, positioning cylinders, etc. Either linear or joystick lever versions of the VP04 are available. Principal applications include the proportional remote control of pneumatic spool-actuators and positioning cylinders in mobile or industrial hydraulic systems.

All connections are furnished with couplings of the plug-in type.

0–8 bar max. 7 nl/s

Х

X X

The PCL4 is a hydraulic pilot valve for the proportional remote control

of directional control valves, pumps, motors, etc. It is available with joystick lever-units, as well as linear units for hand or foot control. The PCL4 is intended primarily for the remote control of hydraulically operated spool actuators and pump regulators in all kinds of mobile

Pneumatic Pilot Pressure

zr 21

| | | zr 11 |
|---|--------------------------|-------|
| System Type | Hydraulic Pilot Pressure | |
| Control pressure range | 1–75 bar | |
| Control flow | max. 15 l/min | |
| Max supply pressure | 100 bar | |
| Individual control characteristics for each direction | Х | |
| Selectable start and final pressures | Х | |
| Selectable lever force | Х | |
| Curves with straight characteristics | Х | |
| Curves with two-step characteristics | Х | |
| Curves with forced opening (final step) | Х | |
| Friction brake for retention in any position | Х | |
| Mechanical or solenoid end position detent | Х | |
| | | |

and industrial applications.

Electrohydraulic



Series PVC6 is a bankable valve assembly used for remote control of directional control valves. The proportional pressure reducing valve creates a pressure proportional to the inlet current. Solenoid Coil Voltage is available in 12 or 24 Volt. The inlet section can be equipped with a pressure reducing valve to protect the control sections (max inlet pressure to control section is 50 bar).





Remote Control Systems

Electronic Control Systems

IQAN



IQAN is a state-of-the-art system, developed by Parker, for electronically controlling and monitoring hydraulics in mobile machines. IQAN communicates with the other systems in the machinery, such as diesel engines and transmission systems. IQAN master units display data from these systems and also allows control of them.

IQAN is user-programmable via a high level graphical design tool, which dramatically simplifies development. Simulation of the control system takes place in parallel with the programming of machine functions. The IQAN software tools cover all phases of a machine's life cycle, from development through production to after sales.

Mobility:

Hardware designed and tested for mobile hydraulic equipment. Simplicity: Implement complex machine functionality without specialized programming knowledge. Time to Market: IQAN's simple programming environment and modular hardware reduces development time. Machine Management: IQAN has the software tools to benefit the entire life cycle of a machine. This allows you to reduce cost from design through after sales support.

Components







IQANdesign platform

An advanced expandable modular control system with software tools, IQAN Creative Studios, to add modules and build functionality and simulation tools.



| System Types | IQANdesign platform |
|------------------|--|
| CANbus Master | IQAN-MDL2, IQAN-MD3, IQAN-MC2 |
| CANbus Modules | IQAN-XA2, IQAN-XS2, IQAN-XT2 |
| CANbus Joysticks | IQAN-LL, IQAN-LM |
| Analog Joysticks | IQAN-LSL, IQAN-LST, IQAN-LF1, ICL4, ICM4 |
| Sensors | IQAN-SP035, IQAN-SP500, IQAN SENSORS |

Stand Alone Concept



IQANdevelop Task oriented control system with software tools to build functionality together with the Stand-alone Controls IQAN-TOC8 and IQAN-TOC2.



Filtration

Auxiliary Valves - Threaded Cartridge Valves





Directional Control Valves

| | HY15-3501/USA/EU | | |
|--|-------------------------------|--------------------------|--|
| Valve Type | Max Working Pressure (bar) | Flow Capacity (I/min) | |
| Manual valves | 240 | 50 | |
| Manual three-way valves | 240 | 25 | |
| Manual four-way valves | 240 | 8 | |
| Pilot operated valves | 240 | 40 | |
| Solenoid, poppet-type, two-way valves | 345 | 265 | |
| Solenoid, poppet-type, bi-directional valves | 345 | 20 | |
| Solenoid, spool-type, two-way valves | 345 | 75 | |
| Solenoid, spool-type, three-way valves | 345 | 65 | |
| Solenoid, spool-type, four-way valves | 345 | 30 | |
| Double solenoid, spool-type, four-way valves | 345 | 25 | |

Proportional Control Valves

| Valve Type | Max Working Pressure (bar) | Flow Capacity (I/min) |
|---|-------------------------------|--------------------------|
| Solenoid operated, two-way NC or NO proportional flow control valves | | 225 |
| Solenoid operated, two-way NO, proportional pressure control valves | | 150 |
| Solenoid operated, two-way NC throttle valves | | 20 |
| Solenoid operated, proportional pressure reducing valves | | 40 |
| Solenoid operated, three-way, proportional pressure control valves | | 11 |



ΖV





Auxiliary Valves - Threaded Cartridge Valves

Load Holding Valves

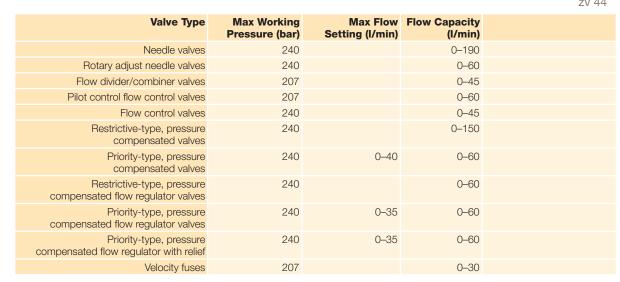
| Valve Type | Max Working Pressure (bar) | Flow Capacity (I/min) |
|------------------------------------|-------------------------------|--------------------------|
| Counterbalance valves | 345 | 0-750 |
| Check valves | 345 | 0–375 |
| Soft seat check valves | 207 | 0–60 |
| Vent-to-open check valves | 240 | 0–225 |
| Pilot-to-close check valves | 240 | 0–150 |
| Single pilot operated check valves | 207 | 0–190 |
| Double pilot operated check valves | 207 | 0–190 |
| Shuttle valves | 240 | 0–25 |



Pressure Control Valves

| | | | 20 43 |
|-------------------------------|--|---|---|
| Max Working Pressure (bar) | Max Setting Pressure (bar) | Flow Capacity (I/min) | |
| 345 | 345 | 0–150 | |
| 240 | 240 | 0–75 | |
| 345 | 345 | 0–60 | |
| 345 | 345 | 0–375 | |
| 345 | | 0–190 | |
| 345 | 345 | 0–150 | |
| 345 | 345 | 0–60 | |
| 345 | 345 | 0–60 | |
| 345 | | 0–19 | |
| 345 | 345 | 0–150 | |
| 240 | 207 | 0–6 | |
| 250 | 250 | 0–19 | |
| 250 | 250 | 0–30 | |
| | Pressure (bar) 345 240 345 345 345 345 345 345 345 345 | Pressure (bar) Pressure (bar) 345 345 240 240 345 345 | Pressure (bar) Pressure (bar) (I/min) 345 345 0-150 240 240 0-75 345 345 0-60 345 345 0-375 345 345 0-375 345 345 0-375 345 345 0-190 345 345 0-150 345 345 0-60 345 345 0-60 345 345 0-60 345 345 0-60 345 345 0-60 345 345 0-60 345 345 0-60 345 345 0-60 345 345 0-60 345 0-150 0-150 345 345 0-150 345 345 0-150 345 345 0-150 345 345 0-150 345 207 0-68 |

Flow Control Valves



Compa Hydraul

Filtration



Auxiliary Valves

Threaded Cartridge Valves



Directly controlled pressure-relief valves with anti-cavitation function. The valves have good pressure characteristics together with very short reaction times. They are compact, tight, reliable and not sensitive to contamination.

| (| 8 |) |
|---|-------|---|
| | zv 21 | |
| | | |

| Valve Type | Max Working Pressure bar | | | |
|------------------------|-----------------------------|--------|-------|--|
| Pressure relief valves | 600 | 25-550 | 0-350 | |

Auxiliary Valves



Parker's stackable selector valve is operated by a wet pin solenoid. The valve is capable of switching from one circuit to another at a variety of flows and pressures. If more than two circuits are to be controlled then additional units can be stacked together. Alternatively, the valve can be connected to a pump and used to direct the flow to either one of two different circuits.

- Stackable
- Reduce pipe work
- Reduce number of fittings

Reduce number of directional control valves spool sections

The pressure reducing valve is of three-way design.

- Compact
- Easy to adjust
- Factory set and sealed

The sequence valve is designed to open or close a hydraulic pilot signal when it reaches a predetermined pressure level.

- Compact
- Several pressure ranges available
- Can be factory set and sealed

The shuttle valve enables two signal flows in a hydraulic system to be directed alternately into a common service line. The flow with the highest pressure takes priority.

- Small dimensions
- Rapid switching
- Negative overlapping
- Reacts on very small flows
- Minimal leakage



| Valve Type | Max Working Pressure bar | Flow Capacity I/min |
|--|-----------------------------|------------------------|
| Stackable, 2-position, 4-way, solenoid operated, circuit selector control valves | | 40 |
| Pressure reducer valve | 250 | 25 |
| Sequence valve | 250 | 25 |
| Shuttle valve | 250 | 20 |



Filtration

Hydraulic Manifold Blocks

Hydraulic Cartridge Systems







Hydraulic Manifold Blocks are designed to meet the many demands on mobile hydraulic equipment. Manifold blocks offer you the following benefits:

- Minimum number of tubing, hoses
- and couplings
- Fewer components
- Fewer leakage points
- Less space required
- Simplified assembly and service instructions
- Complete system solution with optimized functions

Manifold blocks can be flanged to one or more directional valves as well as to pumps, cylinders, motors and filters.

Some cartridge valve products offered by Parker include:

- Directional Control Valves
- Logic Elements and Flow Controls
- Pressure Controls
- Proportional Valves
- Powershift Transmission Controls
- Load Holding Valves

Parker offers value-added services such as manifold design using 3D CAD and CAM software, application engineering assistance and assembly and testing capabilities.

When you need finished integrated hydraulic circuits with extremely short lead times, the Parker 'Speed Shop' is the place to go. Parker's expert application engineers along with the latest computer-aided design technology can bring advanced new custom products to market faster.

The solution to your problem is only minutes away when Parker's Quick Design proposals and quotes that are created using 3D CAD. Once the design is finalized, the 'Speed Shop' process is further streamlined by utilizing electronic communications and approvals. When design specifications meet customer requirements, Parker's CAD linked prototype machining produces fully functional hydraulic integrated circuits. All prototypes are fully tested and documented before being released to production. In today's highly competitive market, speed and quality are critical for success.





Actuators / Cylinders

Multi-stage, Double-acting Telescopic with Mechanical Plunger and Load Holding Valve



Multi-stage, Single-acting Telescopic



MWA/MWB & HC20 Single Stage Cylinder



Double-sided Steering Cylinder



Parker offers single- or double-acting single stage and telescopic mobile cylinders. Custom cylinders can be built in batch sizes from one piece to hundreds. We work with our customers to develop specifications in a wide range of sizes, pressures and mounting styles.

- Bore sizes up to 500 mm diameter
- Any practicable stroke length
- Operating pressures up to 500 bar •
- · Seal compounds to suit all standard fluids
- · A wide range of materials and coatings
 - stainless steel
 - electroless nickel
 - nitriding
 - chrome and double-chrome plating
- Options include
 - loadholding valves
 - electro-hydraulic transducers
 - position switches
 - end of stroke hydraulic damping
 - protective rod boots
 - flow controls
 - flow fuses



| Cylinder | Cyl. Bore Ø mm | Pressure bar | Max Stroke mm | Load Holding Valves | Optional Seal Types | Position Switches | Customized Variants |
|----------|-------------------|--------------|------------------|------------------------|------------------------|----------------------|------------------------|
| MWA | 50-200 | 250 | 4000 | Х | V | Х | Х |
| MWB | 32-200 | 160 | 4000 | Х | Х | Х | Х |
| HC20 | 25-200 | 160 | 2800 | Х | Х | Х | Х |

HTR Rotary Actuators



Rack and pinion rotary actuators deliver constant torque, in both directions. Parker offers single rack and double rack versions, with 'specials' to customer order.

- Output torques up to 68,000 Nm
- Standard rotations 90°, 180°, 360°
- · Specials up to five revolutions or more
- Up to 210 bar operating pressure



Filtration





Accumulators - Piston, Bladder and Diaphragm

Parker's comprehensive range of CE approved piston accumulators

maintains high pressure for safe braking and manoeuvring. Ride control and load/boom damping systems enhance productivity and



ADE Series Diaphragm Accumulators

- 11 standard capacities from 0.075 litres to 3.5 litres
- Up to 250 bar maximum working pressure depending on model
- Nitrile and epichlorohydrine bladder compounds for operating temperatures from -30°C to +80°C
- · Flow rates up to 60 l/min
- BSPP threaded ports as standard; other thread forms available to order
- Meet conformity assessment procedures of PED 97/23/EC



Accumulator Charging Kits and Mounting Accessories

- · Charging and gauging equipment
- Gauge adapters and assemblies
- Mounting clamps and base brackets U-bolt mounting assemblies •
- •
- Accumulator repair tools







Pneumatic





za 01

A Series

Pumps

Filtration and Fluid Analysis

Total Product Offering



For Parker Filtration, our commitment to re-think, re-engineer and realign ourselves to fulfil the needs of our customers and their customers, is best demonstrated by our Total 'Global' Product Offering. In addition to the products highlighted here, a comprehensive catalogue is available.

- Various mounting configurations
- High capacity/high efficiency Microglass III media and 'e' series environmentally friendly media options
- Visual and electrical indicators with several connector styles
- Tank mounted and in-tank models
- Integral indicator options





Medium Pressure

Low Pressure



High Pressure





| Model | Max Flow Rate (I/min) | Max Pressure (bar) | Mounting Style |
|----------------|--------------------------|-----------------------|-----------------------------------|
| Suction Return | 250 | 10 | Tank Top |
| TTF Series | 500 | 10 | Tank Top |
| ETF series | 140 | 6 | Tank Top |
| Tank Topper | 650 | 10 | Tank Top + Integrated Breather |
| IN-AGB | 2400 | 10 | inside Tank |

- · Various port options
- High capacity/high efficiency Microglass III and 'e' series, environmentally friendly media options
- Cartridge style by-pass valve
- · Visual and electrical indicators with several connector styles



| | | | 21 02 |
|------------------|---------------------------|----|----------------|
| Model | Max. Flow Rate (I/min) | | Mounting Style |
| CN Series | 600 | 70 | Inline |
| 45 Series | 260 | 40 | Inline |

- Various mounting configurations
- High capacity/high efficiency Microglass III and 'e' Series, environmentally friendly media options
- Visual and electrical indicators with several connector styles
- Flows up to 520 l/min at 414 bar

| | | | zf 03 |
|-----------|--------------------------|-----------------------|----------------|
| Model | Max Flow Rate (I/min) | Max Pressure (bar) | Mounting Style |
| 8 Series | 700 | 414 | Inline |
| 70 Series | 450 | 420 | Inline |

LaserCM – Portable Particle Counter

There are many reasons why the LaserCM, the latest in an impressive line-up of portable particle counters, is destined to become a worldleader. Some users will be attracted to its proven performance in the field, on the production line or in the laboratory. Others will recognize the manufacturing quality, its reliability, its potential for reducing machine downtime, and its effective predictive maintenance programmes.





Motors

Filtration

Fuel Filtration and Separation

Racor Spin On Series

Racor Turbine Series



SAE J1488/J1839 and ISO 4020 water separation and ISO TR13353 particle efficiency Install a compact Spin On filter/separator with an integral beater and

- Install a compact Spin On filter/separator with an integral heater and see-through bowl
- Replaceable Aquabloc elements and multiple ports
- 400 Series primer pump option allows bus and truck fleet operators to tailor a filter/separator system specifically to their operating needs



- The heavy duty, high capacity water separation and fuel filtration solution
 Genuine Aquabloc elements
- New design, clear-view bowls, die cast aluminium construction
- Heater and metal bowl options
- Drain valve + water sensor options



Crankcase Ventilation System (CCV)



Engine Air Filtration Systems



- A compact, patented package that provides superior oil coalascence and crankcase pressure control under the severest conditions
- Enabling engines to meet Euro Tier 4 and 5 requirements while protecting turbo and intercooler systems



- Pamic Range 2 and 3 stage air cleaners designed to ensure low maintenance costs operating efficiency
- Eco Range lightweight easy-fit air cleaners
- Dynacell range low profile, multi-stage air cleaners for light through to extra heavy service



Transmission + Back Axle Filters and Cabin Air



- A good filtration ratio with a specially designed 'clogging layer'. High burst pressure demand.
- · Air intake filters designed to protect motors and extend thier life
- Fresh air filters for truck cabin filtration to remove impurities from air, sand, pollen, asphalt etc



Truck Tyre Saver 1 – Tyre Filling with Nitrogen



- Specially designed for filling truck tyres delivering 10, 20, 30 and 40 nm³/h at 95 % purity and 10 bar (g)
- · Automatic pneumatic switch-off when there is no nitrogen demand
- Compact design using a high-performance membrane
- Lower fuel consumption and longer tyre life



Fluid Connectors





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Pneumatic

Truck Valves





Highly versatile range of poppet to inline air-control panels for on and/or off-road vehicles assisting air suspension stability.

- Reduced frictionless seal technology
- Low pressure drop loss in actuation
- · Robust die cast, plastic and anodized material
- Push button or toggle technology
- Normally open/normally closed operation
- Mono or bi-stable position operation



Load distribution legislations in various countries utilize solenoid or vacuum, including hand-lever valves, to manually or automatically operate rugged, light and heavy freight operation.

- Wide operating temperature -40 °C to +70 °C
- Environmental conditions IP67
- Electric conditions between 12-24 VDC
- Stable seal performance technology
- Wide range of body sizes 1/8-3/4 (3 mm-19 mm)
- · Easily accessible adjustments

Truck Air Prep





Provides moisture-free and dry compressed air to the equipment and applications which require continuous and uninterrupted regulated operation.

- · One-piece filter cartridge for fast maintenance
- Robust metal shell for extra safety
- Key lock metal bonnet
- · Ideal for low and high flow applications
- Space saving package for optimal performance
- Precise regulation with balanced poppet
- Multi-porting options

Chassis



Low operating noise, with the ability to withstand vibration while operating in extreme conditions.

- · Flexible design suitable for retrofitting systems
- · Compact and light weight housing material
- · Electric or pneumatic drains
- · Solid control piston for extended life
- · Removable, non-rising knob for panel mounting
- Dual or three-unit combinations

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Motors

Compact Hydraulics

Power Take Off

Valves

Actuators



Pneumatic

Thermoplastic Hoses

Polyflex/Parflex

Thermoplastic Hoses for Hydraulic Applications



For pressures up to 700 bar. Single and multiple lines with permanently attached end fittings for self assembly with Polykrimp/ Parkrimp systems.

Applications: low pressure to high pressure hydraulic, pneumatic and surface finishing, PTFE hoses. Construction: thermoplastic hoses with synthetic fibre/steel wire reinforcement.

Size range: from 1/4" to 1.1/4". Working pressure: 700 bar on 1/4" and 275 bar on 1.1/4". Temperature range: -57 °C to +150 °C.



Preformed

Polyflex Presto Tubing for Pneumatics The preform technology enables Parker to supply tailor- made hose and thermoplastic tubing solutions for a variety of applications such as airbrake, fuel lines, low and also high pressure hydraulic lines. Benefits:

- It is common for Preformed Thermoplastic products to cost less than the tube or hose/tube combination it will replace. The difference is mainly achieved by reducing the number of fittings on a given routing
- In cases where Parker preformed products have more expensive parts than the comparable product, the time saved during the handling and installation has made up more than the original costs
- Avoid leakage points by reducing the number of fittings
- Optimum usage of confined spaces

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- Easy assembly in hard-to-reach areas
- Weight reduction



Actuators

Accumulators



Thermoplastic single and multicore tubing bundles for most pneumatic applications. Tubing bundles for instrumentation, controls and systems monitoring.

Materials: Polyethylene (PE), Polyurethane (TPU), Polyamide (PA). Size range: 2 to 16 mm (1/8" to 1"). Temperature range: -40 °C to +80 °C



Hydraulic Fittings

EO-Plus, EO2-Plus, EO2 Form

EO-PLUS



EO2-PLUS



EO2-FORM



New, chromium(VI)-free fitting generation, consisting of: EO-Plus for metallic sealed connections, EO2-Plus for soft sealed connections and EO2-Form for soft sealed cold-formed tube connections. Gives maximum safety even at extreme pressures, 500 hours corrosion resistance against white rust.

Product range: Series L from 6 to 42 mm tube o.d. Series S from 6 to 38 mm tube o.d.

Material: steel. Sealing material (EO2-Plus/EO2-Form): NBR/FPM. Nominal pressure Pn: Series L up to 500 bar Series S up to 800 bar. Sizes 20S 38S: 420 bar.



Parker Universal Push-to-Connect



The Parker Universal Push-to-Connect is the standardised pushin system for Parker 24° DIN fitting bodies with tube and hose terminations. Saves time and costs through simple, rapid assembly. Repair-friendly even with very dirt connectors. Disassembly with ordinary standard tools. Maximum assembly safety through visual assembly inspection. 100% leak-free. High corrosion resistance thanks to environment-friendly Cr(VI)-free surfaces. Available worldwide.

SensoControl Test Points and Adaptors



Broad range of EMA-measuring points and adaptors in Cr(VI)-free finish for rapid, clean and simple adaption of sensors and measuring equipment to hydraulic systems.

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Pneumatic

Connectors

Filtration

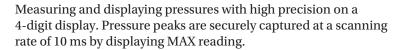
SensoControl

SensoControl

Hand-held Measuring Devices



ServiceJunior Kit / ServiceJunior Wireless Kit



- Digital pressure gauge with illuminated display
- · Bar graph display with Peak & Hold function
- · Pressure peaks in ms
- 4-key menu
- · Robust metal housing



- · Wireless transmissions up to 50 metres
- Read-out data from measured data memory to the PC via radio interface
- · Monitor several measurement points (network operations)
- Long-term monitoring



- Complete kit including Test Point Adaptors and Test Hoses
- Ready to start



The Parker ServiceMaster EASY



- Rapid fault diagnosis = high quality maintenance
- Pressure spike measurement 1 msec
- Measured value storage to record pressure sequences with various storage functions (auto trigger, start-stop, etc)
- USB PC interface
- Setting and evaluation of measurement data with SensoWIN software

Pressure sensors in robust stainless steel housings for mobile use.

SensoControl – Sensors







Motors

Filtration

Pneumatic

Fluid Connectors

Pneumatic Fittings

Prestolok 2

Push-in Fittings – Thermoplastic Body



Prestolok 2 is an instant fitting for plastic tubing, may be used with a protective cap.

Material: polyamide, threaded parts in nickel plated brass. Sizes: tude o.d. 4 to 14 mm. Threads: BSPT, BSPP 1/8" to 1/2", metric M3 to M22. Working pressure: up to 18 bar. Working temperature: -25 °C to +80 °C (depending on tube specification)



Prestomatic 2

Airbrake Fittings



Re-usable push-in brass fitting for use with polyamide airbrake tubing.

Material: brass. Sizes: tube o.d. from 6 to 16 mm. Threads: from M10x1.0 to M22x1.5, NPT, BSPT. Working pressure: up to 17 bar. Working temperature: -40 °C to +100 °C.



Metrulok

Medium Pressure Brass Tube Fittings



Metrulok is a one-piece ready to use bite type fitting for use with either copper or plastic tubing. The cutting ring is retained within the nut. Metrulok fittings are reusable.

Material: brass. Sizes: tube o.d. 4 to 22 mm. Threads: NPT, BSPT, BSPP 1/16" to 3/4", metric M5 to M22. Working pressure: copper tubing up to 180 bar, plastic tubing up to 39 bar. (depending on tube size) Working temperature: -60 °C to +190 °C.



Pneumatic



Rubber Hoses

SAE 100R5 Air Brake/Refrigerant and 2TE Hydraulic Hoses



Parker's airbrake and refrigerant hoses are the optimum solution for air brake systems, diesel engine cooling systems as well as air conditioning applications. Parker is offering for this hose types a special range of fittings (Series 26) as a No-Skive system. Some of the available hose types include high performance of fire resistance construction.

The hose constructions are dependent on working pressure and contain different layers of textile or steel wires and synthetic rubber material for tube and cover.

Working pressure: up to 207 bar. Temperature range: -50 °C to +150 °C. Dimensions: size -4 to -32.



441 Compact *No-Skive* High Pressure SAE 100 R16 Hose – ideal for Power Steering



Parker's upgraded 441 hose provides 2-wire braided performance with only 1 high quality wire braid and is now approved for a working temperature of up to +125 °C.

The Hi-Pac construction of the hose braid allows the technical characteristics of an SAE 100 R16 hose to be met, but offers higher flexibility and therefore improved ease of installation in machines or equipment.

The 441 hose is ideal for many industrial and mobile applications, with typical usage seen on agricultural machines or in power steering circuits.

Synthetic rubber tube; one braid of high tensile steel wire reinforcement; oil, weather and abrasion resistant black synthetic rubber cover.

Temperature range: -40 to +125 °C Exceptions: air max. +70 °C, water max. +85 °C

CARBONBLUE N/L 10 – 20 / CARBONBLUE HEATED



CARBOBLUE N/L 10 - 20 is an automotive hose for trucks, specially designed for additive that reduces the amount of polluted substances released into the environment. These objectives are included in the European parameters EURO IV and EURO V.

CARBOBLUE HEATED underlines our engagement towards an environment friendly attitude. This hose is equipped with electric resistances and is capable to stand also extremely cold temperatures, while keeping its main features in terms of performances, flexibility and resistance to stress and cracking.

Tube: Black, smooth, antistatic R<1M Ω /m and sulphur free EPDM rubber compound nitrosamine-free with peroxide curing. Composed of 32 % urea aqueous (AUS 32/AIR1-AdBlue). Reinforcement: Synthetic textile fabrics. Cover: Black, smooth, antistatic R<1M Ω /m, EPDM rubber compound nitrosamine free, ageing, heat and weather resistant.



Filtration

Fluid Connectors

Motors

CARBURITE 10

Suction and Delivery Hose



CARBURITE 10 is a light weight and very flexible hose, manufactured with a premium NBR rubber compound and applicable for a wide range of hydraulic fluids. Based on its product features, CARBURITE 10 is the ideal hose for suction and return lines in hydraulic systems.

Reinforcement: Synthetic textile fabrics and embedded steel wire helix. Cover: Black, smooth, antistatic (R<1M Ω /m).

NBR/SBR rubber compound, oil, fuel, abrasion, ageing and weather resistant.

Suction: Max. 0,8 bar (600 mm Hg).

OILPRESS N/L 20 - 30

Fuel Hose



OILPRESS is the ideal fuel line hose and applicable for all types of fuels (including alternative fluids) and for petroleum products with an aromatic content not exceeding 50 %. Based on its temperature range from -30 °C to +100 °C combined with the high resistance to a wide range of fluids, this hose type is ideal for power steering applications in trucks.

Tube: Smooth, black, oil and fuel resistant NBR rubber compound, suitable for petroleum products.

Reinforcement: Synthetic textile yarns.

Cover: Smooth, black, self-extinguishing, antistatic ($R > 1M \Omega/m$. Heat, oil, abrasion and weather resistant CR rubber compound.

AIRBRAKE DIN 74310

Air Brake System Hose



Based on the special EPDM rubber compound, used for both tube and cover, the product features are low permeability to air and an excellent flexibility even in case of low temperatures. The premium rubber compounds gives resistance to high temperatures, weathering, abrasion and oil traces. Based on this product features, AIRBRAKE DIN 74310 is widely used in automotive and air brake systems.

Tube: Black, smooth EPDM nitrosamine-free rubber compound. Reinforcement: Stress-resistant, synthetic textile yarns. Cover: Black, abrasion, ageing and weather-resistant, smooth EPDM nitrosamine free rubber compound.

RADIOR DIN 6 Cooling System Hose



RADIOR DIN 6 is designed for a constant working pressure of 6 bar. Also the increased temperature range from -40 °C up to +125 °C makes this hose to the preferred product for cooling systems of automotive engines, stationary engines and for refrigerant systems.

Tube: Black, smooth, heat resistant EPDM rubber compound. Reinforcement: Synthetic textile fabrics yarns. Cover: Black, smooth, wrapped finish, heat, ageing and weatherresistant EPDM rubber compound.

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Valves

Pneumatic

Parker's Motion & Control Technologies

At Parker, we're guided by a relentless drive to help our customers become more productive and achieve higher levels of profitability by engineering the best systems for their requirements. It means looking at customer applications from many angles to find new ways to create value. Whatever the motion and control technology need, Parker has the experience, breadth of product and global reach to consistently deliver. No company knows more about motion and control technology than Parker. For further info call 00800 27 27 5374.



AEROSPACE Kev Market

- Aircraft engines
- Business & general aviation
- Commercial transports Land-based weapons systems
- Military aircraft
- Missiles & launch vehicles
- Regional transports
- Unmanned aerial vehicles

Key Products

- Flight control systems & components
- Fluid conveyance systems Fluid metering delivery & atomization devices
- •
- Fuel systems & components Hydraulic systems & components
- Inert nitrogen generating systems
- Pneumatic systems & components
- Wheels & brakes

HYDRAULICS

Aerospace

Agriculture

Construction machinery

Power generation & energy

Hydraulic motors & pumps

Hydraulic valves & controls

Industrial machinerv

Truck hydraulics

Diagnostic equipment

Hydraulic cylinders & accumulators

Hydraulic systems

Aerial lift

Forestry

Mining

Oil & gas

Key Products

Kev Markets

CLIMATE CONTROL

- Key Market Agriculture
- Air conditioning •
- Food, beverage & dairy
- Life sciences & medical
- Precision cooling
- Processing Transportation

Key Products

- CO² controls
- Electronic controllers
- Filter driers
- Hand shut-off valves •
- Hose & fittings Pressure regulating valves
- Refrigerant distributors
- Safety relief valves Solenoid valves •
- Thermostatic expansion valves

ELECTROMECHANICAL Key Markets

FILTRATION

Food & beverage

Life sciences

Industrial machinery

Mobile equipment

Power generation

Analytical gas generators

Condition monitoring

Hydraulic, lubrication & coolant filters Process, chemical, water

& microfiltration filters

air generators

Nitrogen, hydrogen & zero

SEALING & SHIELDING

Chemical processing

Energy, oil & gas

General industrial

Information technology

Kev Markets

Aerospace

Consumer

Fluid power

Life sciences

Semiconductor

Transportation

Dynamic seals

EMI shielding

Elastomeric o-rings

Extruded & precision-cut,

Homogeneous & inserted elastomeric shapes

Metal & plastic retained

composite seals Thermal management

fabricated elastomeric seals

High temperature metal seals

Telecommunications

Military

Key Products

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Compressed air & gas filters

Engine air, fuel & oil filtration & systems

Transportation

Key Markets

Marine

Process

Kev Products

• Oil & gas

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- Aerospace
- Factory automation Food & beverage
- Life science & medical
- Machine tools
- Packaging machinery
- Paper machinery
- Plastics machinery & converting
- Primary metals Semiconductor & electronics
- Textile
- Wire & cable

Kev Products

- AC/DC drives & systems .
- Electric actuators
- Controllers
- Gantry robots
- Gearheads Human machine interfaces
 - Industrial PCs
 - Inverters
- Linear motors, slides and stages
- Precision stages
- Stepper motors
- Servo motors, drives & controls
- Structural extrusions

PROCESS CONTROL

Chemical & refining

Medical & dental

Microelectronics

Power generation

products & systems

valves & regulators

& regulators

fittings, valves & pumps

Oil & gas

Kev Products

Food, beverage & dairy

Analytical sample conditioning

Fluoropolymer chemical delivery

High purity gas delivery fittings,

Instrumentation fittings, valves

Process control manifolds

Medium pressure fittings & valves

Kev Markets



FLUID & GAS HANDLING

- Kev Market
- Aerospace .
- Agriculture • Bulk chemical handling
- Construction machinery
- Food & beverage
- Fuel & gas delivery •
 - Industrial machinery
- Mohile
- Oil & gas
- Transportation
- Welding

Key Products

- Brass fittings & valves
- Diagnostic equipment
- . Fluid conveyance systems
- Industrial hose

& couplings

PTFE & PFA hose, tubing & plastic fittings Rubber & thermoplastic hose

Tube fittings & adapters

Quick disconnects

Power take-offs Rubber & thermoplastic hose

Darke

- & couplings Tube fittings & adapters
 - Quick disconnects



PNEUMATICS

- **Kev Markets**
- Aerospace •
- Conveyor & material handling •
- Factory automation Food & beverage
- Life science & medical
- Machine tools Packaging machinery
- Transportation & automotive
- **Key Products**
- Air preparation
- Compact cylinders

Miniature fluidics

Rodless cylinders

Rotary actuators

Tie rod cylinders

Pneumatic accessories

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Pneumatic actuators & grippers

Pneumatic valves and controls

Vacuum generators, cups & sensors

- Field bus valve systems Grippers
- Guided cylinders Manifolds

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Notes

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DVD Information

System Requirements

To view the DVD, the following are required:

- Pentium®-class processor
- Win® XP
- 128 MB of RAM (512 MB recommended)
- 335 MB of available hard-disk space if Acrobat Reader need to be installed.

Acrobat Reader

Catalogue files are viewed using a customized document viewer based on Adobe Acrobat Reader. If you do not have Acrobat Reader 8.0 installed on your PC, you will be given the option to install Acrobat Reader 8.0 from the DVD.

To View the DVD

The document viewer application will launch, and the opening page will appear on your monitor. If the application don't start when you have inserted the disc, right-click on the DVD icon in the Explorer view and select Explore. Double click on start.bat. From this page you can navigate in to the different sections of the DVD.

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Using the DVD search codes provided in this catalogue will take you directly to the section for that product or to a page to select different languages of that product.

Contact Us!

Phone:

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DVD Catalogue

WARNING — USER RESPONSIBILITY

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

- This document and other information from Parker-Hannifin Corporation, its subsidiaries and authorized distributors provide product or system options for further investigation by users having technical expertise.

- The user, through its own analysis and testing, is solely responsible for making the final selection of the system and components and assuring that all performance, endurance, maintenance, safety and warning requirements of the application are met. The user must analyze all aspects of the application, follow applicable industry standards, and follow the information concerning the product in the current product catalog and in any other materials provided from Parker or its subsidiaries or authorized distributors.

- To the extent that Parker or its subsidiaries or authorized distributors provide component or system options based upon data or specifications provided by the user, the user is responsible for determining that such data and specifications are suitable and sufficient for all applications and reasonably foreseeable uses of the components or systems.

Offer of Sale

Please contact your Parker representation for a detailed 'Offer of Sale'.



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