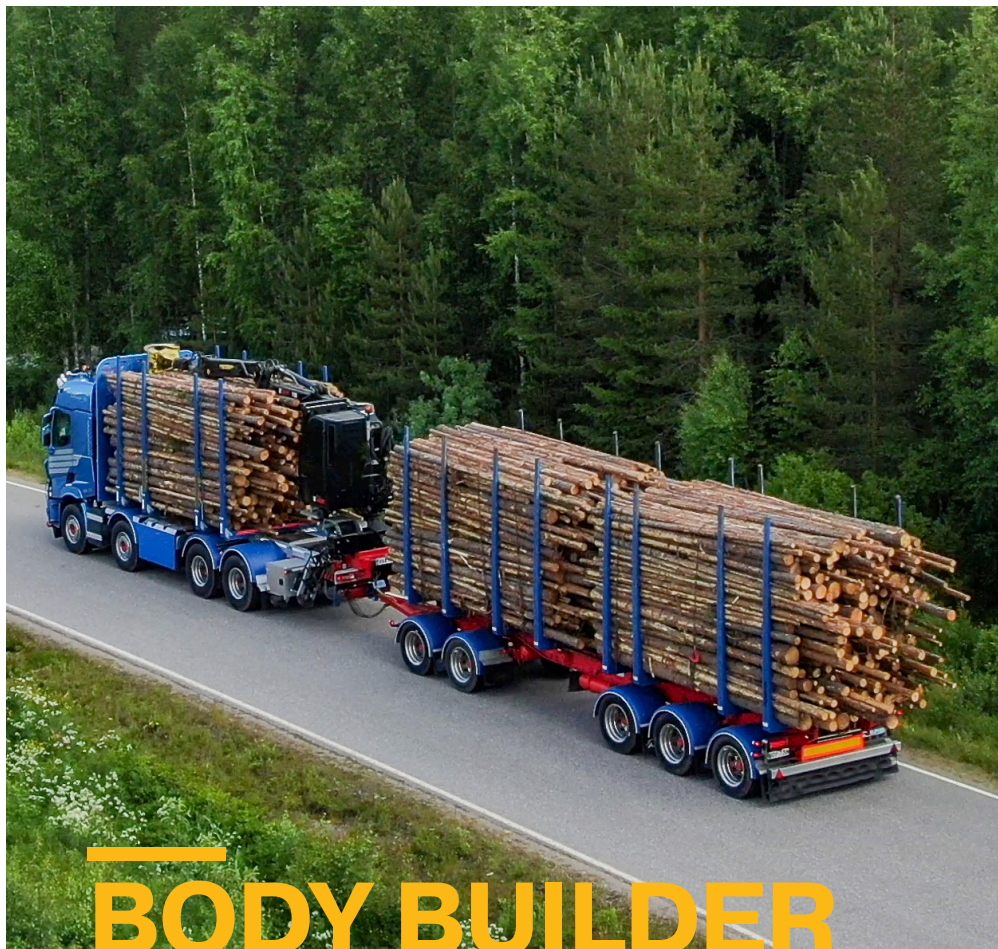




# BODY BUILDER CATALOGUE



## Basic formulas for hydraulic pumps

|                                                                  |                                                                         |
|------------------------------------------------------------------|-------------------------------------------------------------------------|
| Flow (q)                                                         | D – displacement [cm <sup>3</sup> /rev]                                 |
| $q = \frac{D \times n \times \eta_v}{1000} \text{ [l/min]}$      | n – shaft speed [rpm]                                                   |
|                                                                  | $\eta_v$ – volumetric efficiency                                        |
| Torque (M)                                                       | $\Delta p$ – differential pressure [bar]<br>(between inlet and outlet)  |
| $M = \frac{D \times \Delta p}{63 \times \eta_{hm}} \text{ [Nm]}$ | $\eta_{hm}$ – mechanical efficiency                                     |
| Power (P)                                                        | $\eta_t$ – overall efficiency<br>( $\eta_t = \eta_v \times \eta_{hm}$ ) |
| $P = \frac{q \times \Delta p}{600 \times \eta_t} \text{ [kW]}$   |                                                                         |

## Basic formulas for hydraulic motors

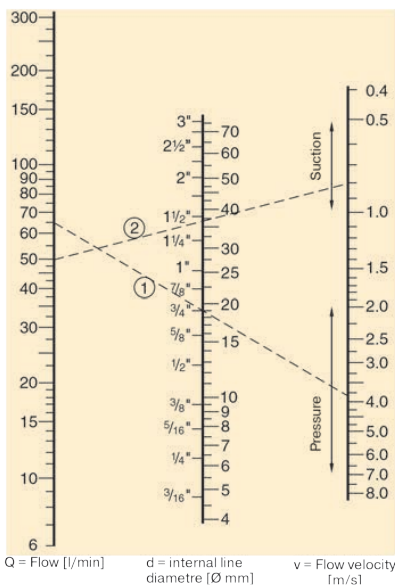
|                                                                  |                                                                         |
|------------------------------------------------------------------|-------------------------------------------------------------------------|
| Flow (q)                                                         | D – displacement [cm <sup>3</sup> /rev]                                 |
| $q = \frac{D \times n}{1000 \times \eta_v} \text{ [l/min]}$      | n – shaft speed [rpm]                                                   |
|                                                                  | $\eta_v$ – volumetric efficiency                                        |
| Torque (M)                                                       | $\Delta p$ – differential pressure [bar]<br>(between inlet and outlet)  |
| $M = \frac{D \times \Delta p \times \eta_{hm}}{63} \text{ [Nm]}$ | $\eta_{hm}$ – mechanical efficiency                                     |
| Power (P)                                                        | $\eta_t$ – overall efficiency<br>( $\eta_t = \eta_v \times \eta_{hm}$ ) |
| $P = \frac{q \times \Delta p \times \eta_t}{600} \text{ [kW]}$   |                                                                         |

## Nomogram

Flow – Line dimension – Flow velocity

Example 1  
Pressure line  
Q = 65 l/min  
d = 3/4"  
v = 3.8 m/s

Example 2  
Suction line  
Q = 50 l/min  
v = 0.8 m/s  
d = 1 1/2"



## Conversion factors

|                                                  |                   |
|--------------------------------------------------|-------------------|
| 1 kg .....                                       | 2.20 lb           |
| 1 N .....                                        | 0.225 lbf         |
| 1 Nm .....                                       | 0.738 lbf ft      |
| 1 bar .....                                      | 14.5 psi          |
| 1 l .....                                        | 0.264 US gallon   |
| 1 cm <sup>3</sup> .....                          | 0.061 cu in       |
| 1 mm .....                                       | 0.039 in          |
| $\frac{9}{5} \text{ } ^\circ\text{C} + 32$ ..... | $1^\circ\text{F}$ |
| 1 kW .....                                       | 1.34 hp           |

## Conversion factors

|                              |                                       |
|------------------------------|---------------------------------------|
| 1 lb .....                   | 0.454 kg                              |
| 1 lbf .....                  | 4.448 N                               |
| 1 lbf ft .....               | 1.356 Nm                              |
| 1 psi .....                  | 0.068948 bar                          |
| 1 US gallon .....            | 3.785 l                               |
| 1 cu in .....                | 16.387 cm <sup>3</sup>                |
| 1 in .....                   | 25.4 mm                               |
| $1^\circ\text{F} - 32$ ..... | $\frac{5}{9} \text{ } ^\circ\text{C}$ |
| 1 hp .....                   | 0.7457 kW                             |

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- 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.
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# PUMPS AND MOTORS

## F1 Pump ISO

Parker's hydraulic truck pump series F1 features high self-priming speed and high efficiency and is one of the leading truck pumps in the market. The F1 pump provides circuit reliability at speeds up to 3100 rpm at 400 bar (5,800 PSI). The F1 hydraulic pump is a very efficient and straightforward pump design with unsurpassed reliability. Its small envelope size gives a simple and inexpensive installation.

### Applications

Cargo cranes  
Hook loaders  
Skip loaders  
Forestry cranes  
Multipurpose vehicles



| Part number | Description | Displacement<br>cm <sup>3</sup> /rev | Max operating<br>pressure<br>[bar] | Max flow <sup>1)</sup><br>[l/min] | Torque <sup>1)</sup><br>[Nm] | Max Input<br>Power <sup>3)</sup><br>[kW] | Max Shaft<br>short circuited<br>pump<br>(low press.) | Speed<br>[RPM] max<br>selfpriming<br>speed <sup>2)</sup> | Weight<br>[kg] |
|-------------|-------------|--------------------------------------|------------------------------------|-----------------------------------|------------------------------|------------------------------------------|------------------------------------------------------|----------------------------------------------------------|----------------|
| 3781024     | F1-25-R     | 25.6                                 | 400                                | 78                                | 163                          | 45                                       | 3100                                                 | 3050                                                     | 8.5            |
| 3781025     | F1-25-L     | 25.6                                 | 400                                | 78                                | 163                          | 45                                       | 3100                                                 | 3050                                                     | 8.5            |
| 3781040     | F1-41-R     | 40.9                                 | 400                                | 104                               | 260                          | 61                                       | 2700                                                 | 2550                                                     | 8.5            |
| 3781041     | F1-41-L     | 40.9                                 | 400                                | 104                               | 260                          | 61                                       | 2700                                                 | 2550                                                     | 8.5            |
| 3781050     | F1-51-R     | 51.1                                 | 400                                | 125                               | 324                          | 73                                       | 2700                                                 | 2450                                                     | 8.5            |
| 3781051     | F1-51-L     | 51.1                                 | 400                                | 125                               | 324                          | 73                                       | 2700                                                 | 2450                                                     | 8.5            |
| 3781060     | F1-61-R     | 59.5                                 | 400                                | 143                               | 378                          | 83                                       | 2700                                                 | 2400                                                     | 8.5            |
| 3781061     | F1-61-L     | 59.5                                 | 400                                | 143                               | 378                          | 83                                       | 2700                                                 | 2400                                                     | 8.5            |
| 3781080     | F1-81-R     | 81.6                                 | 400                                | 180                               | 518                          | 105                                      | 2300                                                 | 2200                                                     | 12.5           |
| 3781081     | F1-81-L     | 81.6                                 | 400                                | 180                               | 518                          | 105                                      | 2300                                                 | 2200                                                     | 12.5           |
| 3781100     | F1-101-R    | 102.9                                | 400                                | 216                               | 653                          | 126                                      | 2300                                                 | 2100                                                     | 12.5           |
| 3781101     | F1-101-L    | 102.9                                | 400                                | 216                               | 653                          | 126                                      | 2300                                                 | 2100                                                     | 12.5           |

1) Theoretical values

2) Valid at an inlet pressure of 1.0 bar (abs.) when operating on mineral oil at a viscosity of 30 mm<sup>2</sup>/s (cSt).

3) Max 6 seconds in any one minute

## F1e - 61cc & 81cc

The new eSeries utilizes the highly efficient bent axis concept with the same high speed range as standard F1, and now with reduced noise level. It is utilizing the highly efficient Parker bent axis design, with the unique spherical piston concept. The well-proven gear synchronization and tapered bearing concept provide a very robust and reliable pump in demanding applications, applicable for both open and closed loop systems. Combined with our well proven track record of durable pumps, we have an outstanding uptime. Improvements in pressure pulsation and high-speed capability are ensuring pressure and flow performance at the highest levels of system efficiency together with lower noise emissions.

### Applications

Cargo cranes  
Hook loaders  
Skip loaders  
Forestry cranes  
Multipurpose vehicles



| Part number | Description | Displacement<br>cm <sup>3</sup> /rev | Max operating pressure<br>[bar] | Max flow <sup>1)</sup><br>[l/min] | Torque <sup>1)</sup><br>[Nm] | Max Input Power <sup>3)</sup><br>[kW] | Max Shaft short circuited pump<br>(low press.) | Speed<br>[RPM] max selfpriming speed <sup>2)</sup> | Weight<br>(kg) max | Reduced Noise level | Pressure pulsation |
|-------------|-------------|--------------------------------------|---------------------------------|-----------------------------------|------------------------------|---------------------------------------|------------------------------------------------|----------------------------------------------------|--------------------|---------------------|--------------------|
| 3725206     | F1e-61-R    | 59.5                                 | 400                             | 143                               | 378                          | 83                                    | 2700                                           | 2400                                               | 8,5                | < - 6               | -40 %              |
| 3725207     | F1e-81-R    | 81.6                                 | 400                             | 180                               | 518                          | 105                                   | 2300                                           | 2200                                               | 12,3               | < - 6               | -40 %              |

1) Theoretical values

2) Valid at an inlet pressure of 1.0 bar (abs.) when operating on mineral oil at a viscosity of 30 mm<sup>2</sup>/s (cSt).

3) Max 6 seconds in any one minute

## T1 Pump ISO

The Parker hydraulic truck pump series T1 features high self-priming speed and high efficiency and is one of the leading truck pumps in the market. The T1 pump was specifically designed to meet the requirements of light duty truck applications with short, non-frequent operating cycles such as tipper, and small loaders. The T1 pump provides circuit reliability at speeds up to 2000 rpm at 350 bar (5,000 psi). The T1 hydraulic pump is a very efficient and straightforward pump design with unsurpassed reliability. Its small envelope size gives a simple and inexpensive installation.

### Applications

Tipper  
Walking Floor



| Part number | Description | Displacement<br>cm <sup>3</sup> / rev | Max<br>operating<br>pressure<br>[bar] | Max flow<br><sup>1)</sup> [l/min] | Torque <sup>1)</sup><br>[Nm] | Max<br>Input<br>Power <sup>3)</sup><br>[kW] | Max Shaft<br>short circuited<br>pump<br>(low press.) | Speed [RPM]<br>max selfpri-<br>ming<br>speed <sup>2)</sup> | Weight<br>(kg)<br>max |
|-------------|-------------|---------------------------------------|---------------------------------------|-----------------------------------|------------------------------|---------------------------------------------|------------------------------------------------------|------------------------------------------------------------|-----------------------|
| 3782180     | T1-81-R     | 81.5                                  | 350                                   | 163                               | 453                          | 95                                          | 2300                                                 | 2000                                                       | 8.5                   |
| 3782181     | T1-81-L     | 81.5                                  | 350                                   | 163                               | 453                          | 95                                          | 2300                                                 | 2000                                                       | 8.5                   |
| 3782120     | T1-121-R    | 118.5                                 | 350                                   | 190                               | 658                          | 111                                         | 2300                                                 | 1600                                                       | 12.5                  |
| 3782121     | T1-121-L    | 118.5                                 | 350                                   | 190                               | 658                          | 111                                         | 2300                                                 | 1600                                                       | 12.5                  |

1) Theoretical values

2) Valid at an inlet pressure of 1.0 bar (abs.) when operating on mineral oil at a viscosity of 30 mm<sup>2</sup>/s (cSt).

3) Max 6 seconds in any one minute

## F1 motor

Parker's F1 hydraulic truck motor series features low noise, low weight, and high efficiency, making it one of the leading truck motor ranges on the market. The F1 motor provides circuit reliability at speeds up to 3000 rpm at 350 bar (5,000 PSI). The F1 hydraulic motor is a very efficient and straightforward motor design with unsurpassed reliability. Its small envelope size gives a simple and inexpensive installation.

### Applications

Sewage truck  
Tanker applications  
Thruster applications  
Multipurpose vehicles



### Specifications

| Part number | Description | Displacement<br>cm <sup>3</sup> /rev | Max operating<br>continuous | Pressure<br>[bar]<br>intermittent <sup>1)</sup> | Torque <sup>1)</sup> [Nm] |            | Max Input<br>Power <sup>3)</sup><br>[kW] | Max Shaft<br>continuous | Speed<br>[RPM]<br>intermittent | Weight<br>[kg] |
|-------------|-------------|--------------------------------------|-----------------------------|-------------------------------------------------|---------------------------|------------|------------------------------------------|-------------------------|--------------------------------|----------------|
|             |             |                                      |                             |                                                 | at 200 bar                | at 350 bar |                                          |                         |                                |                |
| 3781724     | F1-25-M     | 25.6                                 | 250                         | 350                                             | 78                        | 163        | 45                                       | 2300                    | 3000                           | 8.5            |
| 3781740     | F1-41-M     | 40.9                                 | 250                         | 350                                             | 78                        | 163        | 64                                       | 2000                    | 2700                           | 8.5            |
| 3781750     | F1-51-M     | 51.1                                 | 250                         | 350                                             | 104                       | 260        | 72                                       | 1800                    | 2400                           | 8.5            |
| 3781760     | F1-61-M     | 59.5                                 | 250                         | 350                                             | 104                       | 260        | 76                                       | 1700                    | 2200                           | 8.5            |
| 3781780     | F1-81-M     | 81.6                                 | 250                         | 350                                             | 125                       | 324        | 95                                       | 1500                    | 2000                           | 12.5           |
| 3781800     | F1-101-M    | 102.9                                | 250                         | 350                                             | 125                       | 324        | 108                                      | 1400                    | 1800                           | 12.5           |
| 3784120     | F1-121-M    | 118.5                                | 250                         | 350                                             | 143                       | 378        | 117                                      | 1300                    | 1700                           | 8.5            |

1) Max 6 seconds in any one minute.

## F2 Twin-flow pump

Parker's hydraulic truck pump series F2 is a further development of the twin-flow version of series F1, the very first bent-axis truck pump on the market to feature two entirely independent flows. With a suitable build-up of the hydraulic system, the main advantage of a Twin-Flow Pump is that three different flows can be provided at the same engine speed. Featuring a Smart System Solution, F2 pumps provide circuit reliability at speeds up to 2100 rpm at 400 bar (5,000 PSI). The F2 hydraulic pump is a very efficient and straightforward pump design with unsurpassed reliability. Its small envelope size gives a simple and inexpensive installation.

### Applications

Hook loaders / Lift dumpers  
Large truck loaders  
Forestry cranes  
Tipper/crane combinations  
Multipurpose vehicles  
Refuse collecting vehicles



| Part number | Description | Displacement Port A | Displacement cm <sup>3</sup> /rev Port B | Max operating pressure [bar] | Intermittent pressure [bar] <sup>1)</sup> | Max Input Power <sup>2)</sup> [kW] | Max Shaft Speed (RPM) (unloaded pump, low press.) | Weight [kg] |
|-------------|-------------|---------------------|------------------------------------------|------------------------------|-------------------------------------------|------------------------------------|---------------------------------------------------|-------------|
| 3784042     | F2-42/42-R  | 43                  | 41                                       | 350                          | 400                                       | 100                                | 2550                                              | 19          |
| 3784043     | F2-42/42-L  | 43                  | 41                                       | 350                          | 400                                       | 100                                | 2550                                              | 19          |
| 3725444     | F2-45/45-R  | 43                  | 43                                       | 350                          | 400                                       | 100                                | 2550                                              | 19          |
| 3725391     | F2-45/45-L  | 43                  | 43                                       | 350                          | 400                                       | 100                                | 2550                                              | 19          |
| 3781453     | F2-53/53-R  | 55                  | 52                                       | 350                          | 400                                       | 127                                | 2550                                              | 19          |
| 3781454     | F2-53/53-L  | 55                  | 52                                       | 350                          | 400                                       | 127                                | 2550                                              | 19          |
| 3725408     | F2-57/57-R  | 55                  | 55                                       | 350                          | 400                                       | 127                                | 2550                                              | 19          |
| 3725389     | F2-57/57-L  | 55                  | 55                                       | 350                          | 400                                       | 127                                | 2550                                              | 19          |
| 3784128     | F2-55/28-R  | 55                  | 28                                       | 350                          | 400                                       | 100                                | 2550                                              | 19          |
| 3784129     | F2-55/28-L  | 55                  | 28                                       | 350                          | 400                                       | 100                                | 2550                                              | 19          |
| 3781470     | F2-70/35-R  | 69                  | 36                                       | 350                          | 400                                       | 126                                | 2550                                              | 19          |
| 3781471     | F2-70/35-L  | 69                  | 36                                       | 350                          | 400                                       | 126                                | 2550                                              | 19          |

1) Theoretical values

2) Valid at an inlet pressure of 1.0 bar (abs.) when operating on mineral oil at a viscosity of 30 mm<sup>2</sup>/s (cSt).

3) Max 6 seconds in any one minute

## F3 pump

The new, disengageable F3 series is a global innovation in mobile hydraulics. By engaging and disengaging the pump from the diesel engine on the fly, you can save substantial amounts of fuel. But you also reduce wear and tear on the pump and minimize the risk of costly downtime and standstill – while also reducing the noise level. All that is required is to press a button on the dashboard, without turning off the engine.

### Applications

Cargo cranes  
Hook loaders  
Skip loaders  
Forestry cranes  
Multipurpose vehicles



| Part Number 24VDC | Description            | Displacement cm <sup>3</sup> /rev | Max operating pressure [bar] | Max flow <sup>1)</sup> [l/min] | Torque <sup>1)</sup> [Nm] | Max Input Power <sup>3)</sup> [kW] | Max Shaft short circuited pump (low press.) | Speed [RPM] max self-priming speed <sup>2)</sup> | Weight [kg] |
|-------------------|------------------------|-----------------------------------|------------------------------|--------------------------------|---------------------------|------------------------------------|---------------------------------------------|--------------------------------------------------|-------------|
| 3720091           | F3-81-R (with sensor)  | 81.6                              | 400                          | 180                            | 518                       | 105                                | 2300                                        | 2200                                             | 16.7        |
| 3720092           | F3-81-L (with sensor)  | 81.6                              | 400                          | 180                            | 518                       | 105                                | 2300                                        | 2200                                             | 16.7        |
| 3720093           | F3-101-R (with sensor) | 102.9                             | 400                          | 216                            | 653                       | 126                                | 2300                                        | 2100                                             | 16.7        |
| 3720094           | F3-101-L (with sensor) | 102.9                             | 400                          | 216                            | 653                       | 126                                | 2300                                        | 2100                                             | 16.7        |
| 3725161           | F3-81-R (with plug)    | 81.6                              | 400                          | 180                            | 518                       | 105                                | 2300                                        | 2200                                             | 16.7        |
| 3725146           | F3-81-L (with plug)    | 81.6                              | 400                          | 180                            | 518                       | 105                                | 2300                                        | 2200                                             | 16.7        |
| 3725162           | F3-101-R (with plug)   | 102.9                             | 400                          | 216                            | 653                       | 126                                | 2300                                        | 2100                                             | 16.7        |
| 3725148           | F3-101-L (with plug)   | 102.9                             | 400                          | 216                            | 653                       | 126                                | 2300                                        | 2100                                             | 16.7        |

1) Theoretical values

2) Valid at an inlet pressure of 1.0 bar (abs.) when operating on mineral oil at a viscosity of 30 mm<sup>2</sup>/s (cSt).

3) Max 6 seconds in any one minute

## F4 Twin-flow pump

### Multi-function made easy

The new, declutchable F4 series offers a unique combination of features. The dual flow design offers a simple and flexible solution for any vehicle requiring separate flows of differing capacities — multi-function applications like salt spreaders, skip loaders, forestry cranes, sludge trucks and many others. The patented clutch function lets you engage and disengage the pump from the diesel engine on the fly, enabling substantial savings on fuel.

### The new F4 in short:

- Totally disconnected when not needed
- Save hundreds of litres on fuel
- Significant reduction of CO<sub>2</sub> emissions
- Safe limp-home in case of equipment failure
- Just push a button to activate on the go
- Thoroughly tested Parker technology
- Reduces wear on your pump and your transmission
- Compact and easy to install"

### Applications

Hook loaders / Lift dumpers  
Large truck loaders  
Forestry cranes  
Tipper/crane combinations  
Multipurpose vehicles  
Refuse collecting vehicles



| Part number | Description | Displacement Port A | Displacement Port B | Max operating pressure (bar) | Intermittent pressure [bar] <sup>2)</sup> | Max Input Power <sup>2)</sup> [kW] | Max Shaft Speed [RPM] (unloaded pump) | Weight [kg] |
|-------------|-------------|---------------------|---------------------|------------------------------|-------------------------------------------|------------------------------------|---------------------------------------|-------------|
| 3725442     | F4-45/45-R  | 43                  | 43                  | 350                          | 400                                       | 127                                | 2550                                  | 29,5        |
| 3725443     | F4-45/45-L  | 43                  | 43                  | 350                          | 400                                       | 127                                | 2550                                  | 29,5        |
| 3724262     | F4-53/53-R  | 55                  | 52                  | 350                          | 400                                       | 127                                | 2550                                  | 29,5        |
| 3724263     | F4-53/53-L  | 55                  | 52                  | 350                          | 400                                       | 127                                | 2550                                  | 29,5        |
| 3725407     | F4-57/57-R  | 55                  | 55                  | 350                          | 400                                       | 127                                | 2550                                  | 29,5        |
| 3725241     | F4-57/57-L  | 55                  | 55                  | 350                          | 400                                       | 127                                | 2550                                  | 29,5        |
| 3724153     | F4-70/35-R  | 69                  | 36                  | 350                          | 400                                       | 126                                | 2550                                  | 29,5        |
| 3724264     | F4-70/35-L  | 69                  | 36                  | 350                          | 400                                       | 126                                | 2550                                  | 29,5        |

1) Valid at an inlet pressure of 1.0 bar (abs.) when operating on mineral oil at a viscosity of 30 mm<sup>2</sup>/s (cSt).

2) Max 6 seconds in any one minute

## VP1

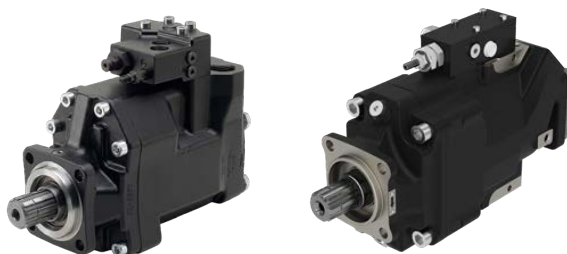
The VP1 is a variable displacement pump for truck applications. It can be close-coupled to a gearbox PTO (power take-off) or to a coupling independent PTO (e.g. an engine PTO) which meets ISO standard 7653-1985. An application that makes full use of all the features of the VP1 is truck cranes with a load sensing system. The complex systems of refuse collection vehicles and sewage trucks as well as various combinations of tippers, cranes, snow ploughs, and salt/ sand spreaders can also be greatly simplified and optimised with the VP1 pump.

The VP1 provides the hydraulic system with the correct amount of fluid at precisely the right moment, effectively reducing energy consumption and heat generation. This means a smoother and quieter hydraulic system with much reduced impact on the environment. The VP1 is highly efficient and extremely light. It is reliable, economical and easy to install. The 6 frame sizes, VP1-045, -060-075, -095, -110 and -130 have small installation dimensions.

The VP1 with e-regulator provides the hydraulic system with the correct amount of fluid at precisely the right moment, effectively reducing energy consumption and heat generation. This means a smoother and fuel-saving hydraulic system with reduced CO2 emissions.

The VP1 with e-regulator is designed with an electrical pressure control regulator. It is sturdy, yet simple, with few moving parts. The result is a reliable pump with long service life.

All VP1 sizes are available with a through-shaft option and EPC 1 and EPC 2 (electric proportional control). Find more information in Parker Truck Catalogue MSG30-8200/UK.



| Part number | Description                   | Painted black | Displacement cm <sup>3</sup> /rev | Max continuous operating pressure [bar] | Intermittent pressure [bar] <sup>1)</sup> | Max RPM short circuited pump (low press.) | Max self priming speed [RPM] <sup>2)</sup> | Weight [kg] |
|-------------|-------------------------------|---------------|-----------------------------------|-----------------------------------------|-------------------------------------------|-------------------------------------------|--------------------------------------------|-------------|
| 3780334     | VP1-045-RG-ZP-0-000-350/25-LS | No            | 45                                | 350                                     | 400                                       | 3000                                      | 3000                                       | 27          |
| 3786169     | VP1-045-RG-ZP-T-000-350/25-LS | Yes           | 45                                | 350                                     | 400                                       | 3000                                      | 3000                                       | 27          |
| 3780335     | VP1-045-LG-ZP-0-000-350/25-LS | No            | 45                                | 350                                     | 400                                       | 3000                                      | 3000                                       | 27          |
| 3786170     | VP1-045-LG-ZP-T-000-350/25-LS | Yes           | 45                                | 350                                     | 400                                       | 3000                                      | 3000                                       | 27          |
| 3722283     | VP1-060-RG-ZP-0-000-350/25-LS | No            | 60                                | 350                                     | 400                                       | 3000                                      | 2700                                       | 27          |
| 3722285     | VP1-060-RG-ZP-T-000-350/25-LS | Yes           | 60                                | 350                                     | 400                                       | 3000                                      | 2700                                       | 27          |

## VP1

| Part number | Description                   | Painted black | Displacement cm <sup>3</sup> /rev | Max continous operating pressure [bar] | Intermittent pressure [bar] <sup>1)</sup> | Max RPM short circuited pump (low press.) | Max self priming speed [RPM] <sup>2)</sup> | Weight [kg] |
|-------------|-------------------------------|---------------|-----------------------------------|----------------------------------------|-------------------------------------------|-------------------------------------------|--------------------------------------------|-------------|
| 3722284     | VP1-060-LG-ZP-0-000-350/25-LS | No            | 60                                | 350                                    | 400                                       | 3000                                      | 2700                                       | 27          |
| 3722286     | VP1-060-LG-ZP-T-000-350/25-LS | Yes           | 60                                | 350                                    | 400                                       | 3000                                      | 2700                                       | 27          |
| 3780336     | VP1-075-RG-ZP-0-000-350/25-LS | No            | 75                                | 350                                    | 400                                       | 3000                                      | 2500                                       | 27          |
| 3786171     | VP1-075-RG-ZP-T-000-350/25-LS | Yes           | 75                                | 350                                    | 400                                       | 3000                                      | 2500                                       | 27          |
| 3780337     | VP1-075-LG-ZP-0-000-350/25-LS | No            | 75                                | 350                                    | 400                                       | 3000                                      | 2500                                       | 27          |
| 3786172     | VP1-075-LG-ZP-T-000-350/25-LS | Yes           | 75                                | 350                                    | 400                                       | 3000                                      | 2500                                       | 27          |
| 3786000     | VP1-095-RA-Z0-0-000-350/25-LS | No            | 95                                | 400                                    | 420                                       | 3000                                      | 2300*                                      | 27          |
| 3786003     | VP1-095-RA-Z0-T-000-350/25-LS | Yes           | 95                                | 400                                    | 420                                       | 3000                                      | 2300*                                      | 27          |
| 3786001     | VP1-095-LA-Z0-0-000-350/25-LS | No            | 95                                | 400                                    | 420                                       | 3000                                      | 2300*                                      | 27          |
| 3786002     | VP1-095-LA-Z0-T-000-350/25-LS | Yes           | 95                                | 400                                    | 420                                       | 3000                                      | 2300*                                      | 27          |
| 3784110     | VP1-110-RA-Z0-0-000-350/25-LS | No            | 110                               | 400                                    | 420                                       | 3000                                      | 2200*                                      | 27          |
| 3783814     | VP1-110-RA-Z0-T-000-350/25-LS | Yes           | 110                               | 400                                    | 420                                       | 3000                                      | 2200*                                      | 27          |
| 3784111     | VP1-110-LA-Z0-0-000-350/25-LS | No            | 110                               | 400                                    | 420                                       | 3000                                      | 2200*                                      | 27          |
| 3783815     | VP1-110-LA-Z0-T-000-350/25-LS | Yes           | 110                               | 400                                    | 420                                       | 3000                                      | 2200*                                      | 27          |
| 3784500     | VP1-130-RA-Z0-0-000-350/25-LS | No            | 128                               | 400                                    | 420                                       | 3000                                      | 2100*                                      | 27          |
| 3784507     | VP1-130-RA-Z0-T-000-350/25-LS | Yes           | 128                               | 400                                    | 420                                       | 3000                                      | 2100*                                      | 27          |
| 3784501     | VP1-130-LA-Z0-0-000-350/25-LS | No            | 128                               | 400                                    | 420                                       | 3000                                      | 2100*                                      | 27          |
| 3784508     | VP1-130-LA-Z0-T-000-350/25-LS | Yes           | 128                               | 400                                    | 420                                       | 3000                                      | 2100*                                      | 27          |

### Through Shaft option on size -095/-110/-130

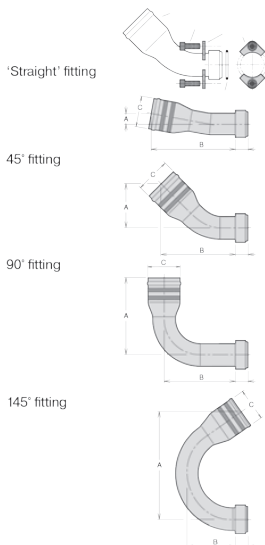
| Part number | Description                   | Painted black | Displacement cm <sup>3</sup> /rev | Max continous operating pressure [bar] | Intermittent pressure [bar] <sup>1)</sup> | Max RPM short circuited pump (low press.) | Max self priming speed [RPM] <sup>2)</sup> | Weight [kg] | Max transmitted torque Nm |
|-------------|-------------------------------|---------------|-----------------------------------|----------------------------------------|-------------------------------------------|-------------------------------------------|--------------------------------------------|-------------|---------------------------|
| 3723519     | VP1-095-RA-ZP-T-000-350/25-LS | Yes           | 95                                | 400                                    | 420                                       | 3000                                      | 2300*                                      | 30,5        | 720                       |
| 3723520     | VP1-095-LA-ZP-T-000-350/25-LS | Yes           | 95                                | 400                                    | 420                                       | 3000                                      | 2300*                                      | 30,5        | 720                       |
| 3723521     | VP1-110-RA-ZP-T-000-350/25-LS | Yes           | 110                               | 400                                    | 420                                       | 3000                                      | 2200*                                      | 30,5        | 720                       |
| 3723522     | VP1-110-LA-ZP-T-000-350/25-LS | Yes           | 110                               | 400                                    | 420                                       | 3000                                      | 2200*                                      | 30,5        | 720                       |
| 3724134     | VP1-130-RA-ZP-T-000-350/25-LS | Yes           | 128                               | 400                                    | 420                                       | 3000                                      | 2100*                                      | 30,5        | 720                       |
| 3724135     | VP1-130-LA-ZP-T-000-350/25-LS | Yes           | 128                               | 400                                    | 420                                       | 3000                                      | 2100*                                      | 30,5        | 720                       |

1) Max 6 seconds in any one minute.

2) At an inlet pressure of 1.0 bar (abs.) with mineral oil at a viscosity of 30 mm<sup>2</sup>/s (cSt).

\* Valid with 3" inlet (suction) line

A 'suction fitting' consists of a straight, 45°, 90° or 135° suction fitting, clamps, cap screws and O-ring.



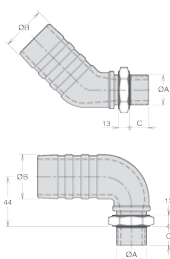
## Suction fittings for F1, F2, F3 and VP1-095, -110 and -130

| Part number           | Description          | A mm | B mm | C di. mm (inch) |
|-----------------------|----------------------|------|------|-----------------|
| 3780635 <sup>*)</sup> | Straight suction     | 0    | 85   | 38 (1 1/2")     |
| 3780636 <sup>*)</sup> | Straight suction     | 17   | 136  | 50 (2")         |
| 3780637 <sup>*)</sup> | Straight suction     | 25   | 145  | 63 (2 1/2")     |
| 3783523 <sup>*)</sup> | Straight suction     | 32   | 174  | 75 (3")         |
| 3781234 <sup>*)</sup> | 45° suction fitting  | 60   | 104  | 32 (1 1/4")     |
| 3780633 <sup>*)</sup> | 45° suction fitting  | 60   | 104  | 38 (1 1/2")     |
| 3780364 <sup>*)</sup> | 45° suction fitting  | 67   | 110  | 50 (2")         |
| 3780634 <sup>*)</sup> | 45° suction fitting  | 75   | 117  | 63 (2 1/2")     |
| 3783367 <sup>*)</sup> | 45° suction fitting  | 95   | 138  | 75 (3")         |
| 3781062               | 45° suction fitting  | 67   | 110  | 40              |
| 3780975               | 45° suction fitting  | 67   | 110  | 45              |
| 3780978 <sup>*)</sup> | 90° suction fitting  | 126  | 83   | 38 (1 1/2")     |
| 3780979 <sup>*)</sup> | 90° suction fitting  | 135  | 83   | 50 (2")         |
| 3781980 <sup>*)</sup> | 90° suction fitting  | 147  | 83   | 63 (2 1/2")     |
| 3780976               | 90° suction fitting  | 135  | 83   | 45              |
| 3788690 <sup>*)</sup> | 90° suction fitting  | 185  | 83   | 75 (3")         |
| 3781867               | 145° suction fitting | 165  | 73   | 50 (2")         |

<sup>\*)</sup> Recommended for frame size F1-25.

2) Recommended for frame size F1-41,-51,-61,-81, -101.

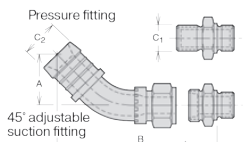
3) (3 clamps and 3 screws)



## Suction fittings for F1 and VP1-045, -060 and -075 with BSP port treads

| Part number | Description         | ØA inch              | ØB inch | C mm |
|-------------|---------------------|----------------------|---------|------|
| 509035016   | 45° suction fitting | BSP 1" <sup>*)</sup> | 2"      | 18   |
| 509035116   | 45° suction fitting | BSP 1 1/4"           | 2"      | 18   |
| 509021916   | 45° suction fitting | BSP 1 1/4"           | 2 1/2"  | 18   |
| 509034516   | 90° suction fitting | BSP 1" <sup>*)</sup> | 2"      | 18   |
| 509034616   | 90° suction fitting | BSP 1 1/4"           | 2"      | 18   |

<sup>\*)</sup> Not for VP1-045/-060/-075



## Fitting kits for VP1-045/-060/-075

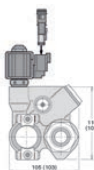
| Part number | Description         | C <sub>1</sub>       | OC <sub>2</sub> inch | A mm | B mm |
|-------------|---------------------|----------------------|----------------------|------|------|
| 379 9563    | 45° suction fitting | BSP 3/4"             | 2"                   | 71   | 154  |
| 379 9562    | 45° suction fitting | BSP 1" <sup>*)</sup> | 2 1/2"               | 64   | 147  |

## Auxiliary Valves

Bypass Valves and Unloading Valves for F1, F2, T1 and VP1 Pumps dimensions. Find more information in Parker Truck Catalogue MSG30-8200/UK..

### BPV-F1 and BPV-T1 Bypass valve

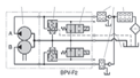
The bypass valve is mainly utilised in applications where the F1 pump is driven from the crank-shaft through a cardan shaft, or when it is installed on an engine PTO. The BPV bypass valve should be dis-engaged during transportation when the pump is operating constantly and the engine is running at max rpm; the hydraulic system is not sized for the large flow that would otherwise go through it. The BPV valve substantially reduces the energy loss during transportation.



| Part number | For F1 and T1 size                                      | Pressure constant bar | Voltage V | Torque Nm |
|-------------|---------------------------------------------------------|-----------------------|-----------|-----------|
| 3787201     | F1- 025 (°), -041, -051, -081 and T1-81                 | 350                   | 24        | 50        |
| 3784179     | Manual override F1- 025 (°), -041, -051, -081 and T1-81 | 350                   | 24        | 50        |
| 3787203     | F1-081, -101 and T1-121                                 | 350                   | 24        | 100       |
| 3784180     | Manual override F1-081, -101 and T1-121                 | 350                   | 24        | 100       |
| 3781640     | Drainkit (°) for F1-025, must be ordered separately     |                       |           |           |
| 3783036     | Drainkit other F1, T1 and F2                            |                       |           |           |

### BPV-F2 Bypass valve

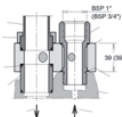
An F2 twin pump fitted with a bypass valve can be utilised in applications where the pump is operating constantly i.e. when the pump is driven from the crankshaft through a cardan shaft, or when it is installed on an engine-PTO. In addition, it can be used when, temporarily, one of the two circuits is not required; the power loss is thus reduced as the non-required flow is not forced through lines and 'open center' valves.



| Part number | For F2 size                                             | Pressure constant bar | Voltage V | Torque Nm |
|-------------|---------------------------------------------------------|-----------------------|-----------|-----------|
| 3787424     | 42/42, 45/45, 53/53, 55/28, 57/57,70/35                 | 350                   | 24        | 50        |
| 3784377     | Manual override 42/42, 45/45, 53/53, 55/28, 57/57,70/35 | 350                   | 24        | 50        |

### BPV-VP1 Unloading Valve

The BPV-VP1 unloading valve is utilized in hydraulic systems where the pump is in constant operation. The valve protects the pump from being overheated in the off-load mode by allowing a small flow through the pump.



| Part number | For VP1 pumps             |
|-------------|---------------------------|
| 3798799     | see assembly instructions |

## PTO engine Adapter Kits for F1, F2 and VP1 pumps

### Scania

| Part number | Description                  | Max torque NM | Pump rotation                |
|-------------|------------------------------|---------------|------------------------------|
| 3789592     | ED-120, bearing 19", 37".55" | 600           | clockwise F1 and VP1         |
| 3789970     | ED-160, bearing 19", 37".55" | 600           | counter clockwise F1 and VP1 |

### Mercedes

| Part number | Description | Torque NM | Pump rotation                  |
|-------------|-------------|-----------|--------------------------------|
| 0050706404  | R6          | 330       | right hand Replaces 0013706404 |
| 00507012104 | V6, V8      | 390       | right hand Replaces 0050709604 |

### MAN

| Part number | Description | Torque NM | Pump rotation |
|-------------|-------------|-----------|---------------|
| 0050081903  | D20, D26    | 400       | right hand    |

## PTO, Power Take-Off

Parker Chelsea is a market leader in Power Take-Off products for the truck and mobile vocational markets. Our PTOs are designed with a wide range of internal speeds, torque capacities and output options to match up with virtually all driven equipment requirements. We offer a complete line of Power Take-Offs for North America, Asia Pacific, Australia, China, India and Europe, including cast iron 6-Bolt, 8-Bolt, 10-Bolt, countershaft, split-shaft and front engine mount applications. Features include mechanical shift, powershift, constant engaged shift options, overspeed controls and flanges for direct or remote mounting of hydraulic pumps, blowers, water pumps, product pumps and generators. Bottom line is if you need a reliable and rugged performer, think Parker Chelsea.

### One example of Chelsea products: 880 PTO



Chelsea 880 Series Power Take-Offs (PTO) fit most manual transmissions with an 8-Bolt aperture. Ideal for product blowers, oil rigs, fire trucks, large cap tow vehicles and other tough challenges.

The 880 is excellent for heavy duty applications.

For our complete offering and further details on pump and motors, please refer to the Parker Truck Catalog MSG30-820/UK or website at [parker.com](http://parker.com)

# HYDRAULIC FILTERS

## EPF iprotect® Series Ecological High Pressure Filter

The EPF Series is a highly compact, eco-friendly inline hydraulic oil filter that features re-useable element core. Capable of flows up to 700 l/min. Maximum allowable operating pressure 450 bar.

Compact solutions are possible because the element remains in the filter bowl during the service. Easy to integrate into hydraulic manifold solutions.



| Part number      | Flow L/min | Micron Rating | Connection | Spare Element |
|------------------|------------|---------------|------------|---------------|
| EPF1110QIBPMG081 | 40         | 10            | G1/2       | 944420Q       |
| EPF2210QIBPMG121 | 140        | 10            | G3/4       | 944432Q       |
| EPF3210QIBPMG161 | 250        | 10            | G1         | 944440Q       |

### Differential pressure indicators

| Description                                  | 5 bar setting P/N |
|----------------------------------------------|-------------------|
| M3 - Visual differential pressure indicator  | DPIM3MVS08MX1     |
| T1 - Electrical differential pressure switch | DPIT1MVS08MDC1    |

## GMF iprotect® Series Medium Pressure in-line Filter

The GMF Series is a highly compact, eco-friendly inline hydraulic oil filter that features re-useable element core. Capable of flows up to 600 l/min. Maximum allowable operating pressure 70 bar.

Patented iProtect elements safeguard filtration quality. Typically 50% reduction in waste with re-useable element core.



| Part number      | Flow L/min | Micron Rating | Connection | Spare Element |
|------------------|------------|---------------|------------|---------------|
| GMF2210QIVPKG164 | 90         | 10            | G1         | 938901Q       |
| GMF3110QIVPKG244 | 120        | 10            | G1 1/2     | 938905Q       |
| GMF3210QIVPKG244 | 230        | 10            | G1 1/2     | 938909Q       |

### Differential pressure indicators

| Description                                  | 2,5 bar setting P/N |
|----------------------------------------------|---------------------|
| M3 - Visual differential pressure indicator  | DPIM3KVS08MX1       |
| T1 - Electrical differential pressure switch | DPIT1KVS08MDC1      |

## GLF iprotect® Series

### Tank Top Return Line Filter

The GLF Series is a tank top return line hydraulic oil filter designed for high flow and long element life. Capable of flows up to 1700 l/min. Maximum allowable operating pressure 10 bar.

Pre-filtration with magnet column to extend element life. No system re-contamination during the element change / service because of in-to-out filtration.



| Part number        | Flow L/min | Micron Rating | Connection | Spare Element |
|--------------------|------------|---------------|------------|---------------|
| GLF1210QIBP2GG16MF | 140        | 10            | G1         | 944835Q       |
| GLF2110QIBP2GG16MF | 250        | 10            | G1         | 944850Q       |
| GLF2210QIBP2GG20MF | 350        | 10            | G1 1/4     | 944851Q       |
| GLF3110QIBP2GG20MF | 450        | 10            | G1 1/4     | 944868Q       |
| GLF3210QIBP2GG24MF | 600        | 10            | G1 1/2     | 944869Q       |

#### Pressure indicators

| Description                   | 1,2 bar setting P/N |
|-------------------------------|---------------------|
| G2 - Pressure Gauge           | FMUG2EBPG02L        |
| S1 - Pressure Switch 48V N.O. | LPSS1EBG02MRP1      |
| S2 - Pressure Switch 48V N.C. | LPSS2EBG02MRP1      |

#### Spare Parts

| Description                       | Part Number |
|-----------------------------------|-------------|
| Air Breather Sab.5101 (GLF2 only) | AB685101    |

## Reservoir Equipment

The EAB Series is an eco-friendly reservoir breather / air filter suited for a wide range of hydraulic systems. The AB Series comprises a broad range of top-mounted metal or plastic breathers and filter breathers. The breathers protect hydraulic systems from airborne particle ingress, while allowing sufficient air flow in and out of the fluid reservoir.



| Part number   | Flow L/min | Micron Rating | Connection         | Spare Element |
|---------------|------------|---------------|--------------------|---------------|
| EAB10P020GE16 | 1000       | 2             | G1                 | EAC10P020     |
| EAB10P020HC73 | 1000       | 2             | 6 hole fixing 73mm | EAC10P020     |
| AB116310      | 430        | 10            | 6 hole fixing 73mm | -             |
| SAB.1562.10   | 430        | 10            | G3/4               | -             |

Reservoir equipment and tank accessories are designed to ensure the performance and reliability of hydraulic systems, including dual-purpose fluid level / temperature gauges, capacitive level switches and float level switches.

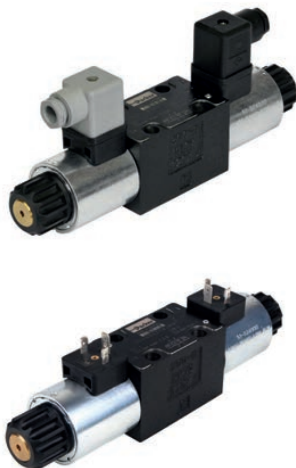


| Part number | Description       | Centres | Connection |
|-------------|-------------------|---------|------------|
| FL69123     | Level/temperature | 76 mm   | M12        |
| FL69113     | Level             | 76 mm   | M12        |
| FL69223     | Level/temperature | 127 mm  | M12        |
| FL69213     | Level             | 127 mm  | M12        |
| FL69323     | Level/temperature | 254 mm  | M12        |
| FL69313     | Level             | 254 mm  | M12        |

# CETOP VALVES

## CETOP Valves

The D1VW in NG06 (CETOP 03) is an on/off valve which provides high functional limits in combination with a very low, energy-saving pressure drop.



### CETOP 3, NG6 directional valves

| Part number | Description              | Note       |
|-------------|--------------------------|------------|
| D1VW001CNJW | D1VW001CNJW91            | 24VDC      |
| D1VW002CNJW | D1VW002CNJW91            | 24VDC      |
| D1VW004CNJW | D1VW004CNJW91            | 24VDC      |
| D1VW006CNJW | D1VW006CNJW91            | 24VDC      |
| D1VW008CNJW | D1VW008CNJW91            | 24VDC      |
| D1VW020BNJW | D1VW020BNJW91            | 24VDC      |
| D1VW030BNJW | D1VW030BNJW91            | 24VDC      |
|             |                          |            |
| D1VW001CNKW | D1VW001CNKW91            | 12VDC      |
| D1VW002CNKW | D1VW002CNKW91            | 12VDC      |
| D1VW004CNKW | D1VW004CNKW91            | 12VDC      |
| D1VW006CNKW | D1VW006CNKW91            | 12VDC      |
| D1VW008CNKW | D1VW008CNKW91            | 12VDC      |
| D1VW020BNKW | D1VW020BNKW91            | 12VDC      |
| D1VW030BNKW | D1VW030BNKW91            | 12VDC      |
|             |                          |            |
| 5001710     | DIN 43650A PG9 CONNECTOR | Hirschmann |

### CETOP 3, NG6 Sandwich Valves

| Part number | Description | Note                             |
|-------------|-------------|----------------------------------|
| FM2DDKV     | FM2DOKV55   | Check Valve                      |
| CPOM2AAV    | CPOM2AAV56  | Pilot operated check valve in A  |
| CPOM2BBV    | CPOM2BBV56  | Pilot operated check valve in B  |
| CPOM2DDV    | CPOM2DDV56  | Pilot operated check valve in AB |
| CM2PPV      | CM2PPV55    | Check valve in P                 |
| CM2TTV      | CM2TTV55    | Check valve in T                 |



### CETOP 3, NG6 Subplates



| Part number  | Description  | Note                                           |
|--------------|--------------|------------------------------------------------|
| SPD23B910    | SPD23B910    | 1 x CETOP 3, BSPP 3/8" downwards               |
| MSP1D23BA910 | MSP1D23BA910 | 1 x CETOP 3, PT BSPP 1/2", AB 3/8" on the side |
| MSP2D23BA910 | MSP2D23BA910 | 2 x CETOP 3, PT BSPP 1/2", AB 3/8" on the side |
| MSP3D23BA910 | MSP3D23BA910 | 3 x CETOP 3, PT BSPP 1/2", AB 3/8" on the side |
| MSP4D23BA910 | MSP4D23BA910 | 4 x CETOP 3, PT BSPP 1/2", AB 3/8" on the side |
| MSP5D23BA910 | MSP5D23BA910 | 5 x CETOP 3, PT BSPP 1/2", AB 3/8" on the side |
| MSP6D23BA910 | MSP6D23BA910 | 6 x CETOP 3, PT BSPP 1/2", AB 3/8" on the side |
| MSP7D23BA910 | MSP7D23BA910 | 7 x CETOP 3, PT BSPP 1/2", AB 3/8" on the side |

### CETOP 3, NG6 Sandwich Valves



| Part number  | Description    | Note                                  |
|--------------|----------------|---------------------------------------|
| RDM2PT06SVG  | RDM2PT06SVG15  | Pressure relief P-T 1.5-64 bar        |
| RDM2PT16SVG  | RDM2PT16SVG15  | Pressure relief P-T 3-160 bar         |
| RDM2PT21SVG  | RDM2PT21SVG15  | Pressure relief P-T 3-210 bar         |
| RDM2PT35SVG  | RDM2PT35SVG15  | Pressure relief P-T 5-350 bar         |
| 098-91203-0  | ZDV-A011SOD1   | Pressure relief A-T max 70 bar        |
| 098-91204-0  | ZDV-A015SOD1   | Pressure relief A-T max 350 bar       |
| 098-91205-0  | ZDV-B011SOD1   | Pressure relief B-T max 70 bar        |
| 098-91206-0  | ZDV-B015SOD1   | Pressure relief B-T max 350 bar       |
| 098-91207-0  | ZDV-AB011SO01  | Pressure relief A-T & B-T max 70 bar  |
| 098-91208-0  | ZDV-AB015SO01  | Pressure relief A-T & B-T max 350 bar |
|              |                |                                       |
| PRDM2PP06SVG | PRDM2PP06SVG15 | Pressure reduction PP 64 bar          |
| PRDM2PP16SVG | PRDM2PP16SVG15 | Pressure reduction PP 160 bar         |
| PRDM2PP21SVG | PRDM2PP21SVG15 | Pressure reduction PP 210 bar         |
| PRDM2PP35SVG | PRDM2PP35SVG15 | Pressure reduction PP 350 bar         |
| PRDM2AA06SVG | PRDM2AA06SVG15 | Pressure reduction AA 64 bar          |
| PRDM2AA16SVG | PRDM2AA16SVG15 | Pressure reduction AA 160 bar         |
| PRDM2AA21SVG | PRDM2AA21SVG15 | Pressure reduction AA 210 bar         |
| PRDM2AA35SVG | PRDM2AA35SVG15 | Pressure reduction AA 350 bar         |
| PRDM2BB06SVG | PRDM2BB06SVG15 | Pressure reduction BB 64 bar          |
| PRDM2BB16SVG | PRDM2BB16SVG15 | Pressure reduction BB 160 bar         |
| PRDM2BB21SVG | PRDM2BB21SVG15 | Pressure reduction BB 210 bar         |
| PRDM2BB35SVG | PRDM2BB35SVG15 | Pressure reduction BB 350 bar         |

## CETOP Valves

The NG10 direct operated directional control valve series D3W provides high functional limits up to 150 l/min in combination with a low, energy saving pressure drop.



### CETOP 5, NG10 directional valves

| Part number | Description              | Note        |
|-------------|--------------------------|-------------|
| D3W001CNJW  | D3W001CNJW42             | 24VDC       |
| D3W002CNJW  | D3W002CNJW42             | 24VDC       |
| D3W004CNJW  | D3W004CNJW42             | 24VDC       |
| D3W008CNJW  | D3W008CNJW42             | 24VDC       |
| D3W020BNJW  | D3W020BNJW42             | 24VDC       |
| D3W001CNKW  | D3W001CNKW42             | 12VDC       |
| D3W002CNKW  | D3W002CNKW42             | 12VDC       |
| D3W004CNKW  | D3W004CNKW42             | 12VDC       |
| D3W008CNKW  | D3W008CNKW42             | 12VDC       |
| D3W020BNKW  | D3W020BNKW42             | 12VDC       |
| D3W001CNTW  | D3W001CNTW42             | 230VAC/50Hz |
| D3W002CNTW  | D3W002CNTW42             | 230VAC/50Hz |
| D3W004CNTW  | D3W004CNTW42             | 230VAC/50Hz |
| D3W008CNTW  | D3W008CNTW42             | 230VAC/50Hz |
| D3W020BNTW  | D3W020BNTW42             | 230VAC/50Hz |
| 500T710     | DIN 43650A PG9 CONNECTOR | Hirschmann  |

### CETOP 5, NG10 Pressure sandwich valves



| Part number | Description   | Note                                  |
|-------------|---------------|---------------------------------------|
| RDM3PT21SVG | RDM3PT21SVG15 | Pressure relief P-T 3-210 bar         |
| 098-91034-0 | ZDV-P021S0D1  | Pressure relief P-T max 70 bar        |
| 098-91035-0 | ZDV-P025S0D1  | Pressure relief P-T max 350 bar       |
| 098-91036-0 | ZDV-A021S0D1  | Pressure relief A-T max 70 bar        |
| 098-91037-0 | ZDV-A025S0D1  | Pressure relief A-T max 350 bar       |
| 098-91038-0 | ZDV-B021S0D1  | Pressure relief B-T max 70 bar        |
| 098-91039-0 | ZDV-B025S0D1  | Pressure relief B-T max 350 bar       |
| 098-91040-0 | ZDV-AB021S0D1 | Pressure relief A-T & B-T max 70 bar  |
| 098-91041-0 | ZDV-AB025S0D1 | Pressure relief A-T & B-T max 350 bar |

## CETOP 5, NG10 Pressure sandwich valves



| Part number  | Description    | Note                          |
|--------------|----------------|-------------------------------|
| PRDM3PP01SVG | PRDM3PP01SVG15 | Pressure reduction PP 19 bar  |
| PRDM3PP05SVG | PRDM3PP05SVG15 | Pressure reduction PP 50 bar  |
| PRDM3PP15SVG | PRDM3PP15SVG15 | Pressure reduction PP 150 bar |
| PRDM3PP21SVG | PRDM3PP21SVG15 | Pressure reduction PP 210 bar |
| PRDM3AA01SVG | PRDM3AA01SVG15 | Pressure reduction AA 19 bar  |
| PRDM3AA05SVG | PRDM3AA05SVG15 | Pressure reduction AA 50 bar  |
| PRDM3AA15SVG | PRDM3AA15SVG15 | Pressure reduction AA 150 bar |
| PRDM3AA21SVG | PRDM3AA21SVG15 | Pressure reduction AA 210 bar |
| PRDM3BB01SVG | PRDM3BB01SVG15 | Pressure reduction BB 19 bar  |
| PRDM3BB05SVG | PRDM3BB05SVG15 | Pressure reduction BB 50 bar  |
| PRDM3BB15SVG | PRDM3BB15SVG15 | Pressure reduction BB 150 bar |
| PRDM3BB21SVG | PRDM3BB21SVG15 | Pressure reduction BB 210 bar |

## CETOP 5, NG10 Sandwich Valves



| Part number | Description | Note                             |
|-------------|-------------|----------------------------------|
| FM3DDKV     | FM3DOKV55   | Check Valve                      |
| CPOM3AAV    | CPOM3AAV56  | Pilot operated check valve in A  |
| CPOM3BBV    | CPOM3BBV56  | Pilot operated check valve in B  |
| CPOM3DDV    | CPOM3DDV56  | Pilot operated check valve in AB |
| CM3PPV      | CM3PPV55    | Check valve in P                 |
| CM3TTV      | CM3TTV55    | Check valve in T                 |

## CETOP 5, NG10 Subplates



| Part number  | Description  | Note                                          |
|--------------|--------------|-----------------------------------------------|
| SPD34B920    | SPD34B920    | 1 x CETOP 5, BSPP 1/2" downwards              |
| MSP1D34BA930 | MSP1D34BA930 | 1 x CETOP 5, P BSPP 3/4", AB 1/2" on the side |
| MSP2D34BA930 | MSP2D34BA930 | 2 x CETOP 5, P BSPP 3/4", AB 1/2" on the side |
| MSP3D34BA930 | MSP3D34BA930 | 3 x CETOP 5, P BSPP 3/4", AB 1/2" on the side |
| MSP4D34BA930 | MSP4D34BA930 | 4 x CETOP 5, P BSPP 3/4", AB 1/2" on the side |
| MSP5D34BA930 | MSP5D34BA930 | 5 x CETOP 5, P BSPP 3/4", AB 1/2" on the side |
| MSP6D34BA930 | MSP6D34BA930 | 6 x CETOP 5, P BSPP 3/4", AB 1/2" on the side |
| MSP7D34BA930 | MSP7D34BA930 | 7 x CETOP 5, P BSPP 3/4", AB 1/2" on the side |
| MSP8D34BA930 | MSP8D34BA930 | 8 x CETOP 5, P BSPP 3/4", AB 1/2" on the side |

# COOLERS

## Air oil cooler with DC motor - LDC Series - (Europe)

The LDC air oil cooler series with 12 or 24V DC motor is optimized for use in the mobile industry and is available in a range of cooling capacities from 1kW to 30 kW. Please use the sizing software for proper cooler sizing.



| Description            | Flow l/min | Motor Type | Size H,L,W mm | Part number |
|------------------------|------------|------------|---------------|-------------|
| LDC-007-B-0-00-000-0-0 | 130        | 24VDC      | 345, 178, 330 | 5837007007  |
| LDC-016-B-0-00-000-0-0 | 200        | 24VDC      | 466, 218, 464 | 5827016012  |

## Quiet air water glycol cooler with DC motor - QDC series - (Europe)

The QDC air oil cooler series with 24V DC brushless motor is optimized for use in the mobile, electrification market and is available in a range of cooling capacities from 1kW to 26 kW.



| Description            | Flow l/min | Motor Type | Size H,L,W mm | Part number |
|------------------------|------------|------------|---------------|-------------|
| QDC-008-B-0-00-000-0-0 | 120        | 24VDC      | 345, 239, 335 | 5847008001  |
| QDC-017-B-0-00-000-0-0 | 200        | 24VDC      | 464, 240, 466 | 5847017001  |

## Quiet air water glycol cooler with DC motor - QDC series - (Europe)

The QDC air oil cooler series with 24V DC and up to 850 D VC Fan drive is optimized for use in the mobile, electrification market and is available in a range of cooling capacities from 1kW to 26 kW.

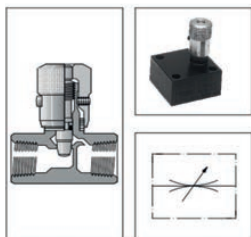


| Description                  | Flow l/min | Motor Type | Size H,L,W mm | Part number |
|------------------------------|------------|------------|---------------|-------------|
| QDC-006-B-0-00-01X-F-0-0-0-0 | 100        | 24VDC      | 450, 281, 190 | 5847006001  |
| QDC-006-A-0-00-01X-F-0-0-0-0 | 100        | 12VDC      | 450, 281, 190 | 5847006002  |
| QDC-006-B-0-ST-01X-F-0-0-0-2 | 100        | 24VDC      | 550, 281, 210 | 5847006500  |
| QDC-006-A-0-ST-01X-F-0-0-0-2 | 100        | 12VDC      | 552, 283, 212 | 5847006520  |
| QDC-006-B-0-ST-01X-F-0-0-0-3 | 40         | 24VDC      | 550, 281, 300 | 5847006501  |
| QDC-006-B-0-ST-01X-F-0-0-0-1 | 40         | 24VDC      | 550, 281, 210 | 5847006502  |
| QDC-006-A-0-ST-01X-F-0-0-0-1 | 40         | 12VDC      | 553, 284, 213 | 5847006522  |

# MANATROL VALVES

## Pipe Mounted Throttle Valves, manual adjustment

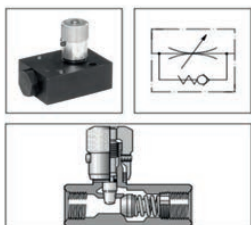
Manatrol stop and throttle valves with 2-stage needle cone. Fine adjustment for the first stage can be achieved with 3 rotations of the adjustment knob. The second stage with normal throttle characteristics is achieved with 3 further rotations. A cylindrical needle with a rectangular slot is provided to reduce the viscosity effect for sizes 200 up to 600. The flow is dependent on pressure and viscosity.



| Part number | Description  | Note      |
|-------------|--------------|-----------|
| 9N200S      | Needle valve | BSPP 1/8" |
| 9N400S      | Needle valve | BSPP 1/4" |
| 9N600S      | Needle valve | BSPP 3/8" |
| 9N800S      | Needle valve | BSPP 1/2" |
| 9N1200S     | Needle valve | BSPP 3/4" |
| 9N1600S     | Needle valve | BSPP 1"   |

## Pipe Mounted Throttle Valves, manual fine adjustment

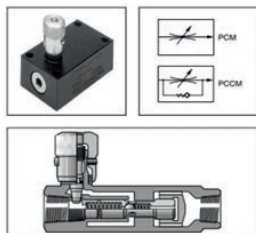
Manatrol throttle check valves of series F with fine adjustment of the flow rate for a defined flow direction. The built-in check valve allows free flow in the counter direction with low flow resistance. A 2-stage needle provides very exact setting of smaller flow rates with the first three rotations of the adjustment knob. After 3 more rotations, the valve is completely open.



| Part number | Description  | Note                         |
|-------------|--------------|------------------------------|
| 9F200S      | Needle valve | BSPP 1/8"                    |
| 9F200S4     | Needle valve | BSPP 1/8", Extra fine tuning |
| 9F400S      | Needle valve | BSPP 1/4"                    |
| 9F400S4     | Needle valve | BSPP 1/4", Extra fine tuning |
| 9F600S      | Needle valve | BSPP 3/8"                    |
| 9F600S4     | Needle valve | BSPP 3/8", Extra fine tuning |
| 9F800S      | Needle valve | BSPP 1/2"                    |
| 9F1200S     | Needle valve | BSPP 3/4"                    |
| 9F1600S     | Needle valve | BSPP 1"                      |

## Pipe Mounted Flow Control Valves

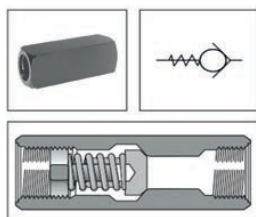
Manatrol 2-way flow control valves for pressure compensated regulation of the flow rate. As a consequence of pressure changes, the set value can vary by  $\pm 5\%$  within the tolerance range. Viscosity changes have the same effect and must be observed.



| Part number | Description                             | Note      |
|-------------|-----------------------------------------|-----------|
| 9PCCM400S   | Flow Control Valve with free flow check | BSPP 1/4" |
| 9PCCM600S   | Flow Control Valve with free flow check | BSPP 3/8" |
| 9PCCM800S   | Flow Control Valve with free flow check | BSPP 1/2" |
| 9PCCM1200S  | Flow Control Valve with free flow check | BSPP 3/4" |

## Pipe Mounted Check Valves

Manatrol check valves of series C for pipe mounting provide free flow in one direction and block flow in the counter direction. Depending on material specification, these valves are suited for use in hydraulic and pneumatic systems. Specific poppets and poppet guides ensure reliable functional integrity even at high flow rates and/or pulsations.



| Part number | Description                 | Note      |
|-------------|-----------------------------|-----------|
| 9C200S      | Direct operated Check Valve | BSPP 1/8" |
| 9C400S      | Direct operated Check Valve | BSPP 1/4" |
| 9C600S      | Direct operated Check Valve | BSPP 3/8" |
| 9C800S      | Direct operated Check Valve | BSPP 1/2" |
| 9C1200S     | Direct operated Check Valve | BSPP 3/4" |
| 9C1600S     | Direct operated Check Valve | BSPP 1"   |

# ACCUMULATORS

## Piston Accumulator with crimped end cap design - ACP series - (Europe)

Piston Accumulator designed for Mobile applications up to 30 litres, with a 100 mm bore and a maximum pressure of 275 bar. The ACP piston accumulator offers long, reliable service life and due to its compact & cost effective design it is ideally suited for the mobile market.



| Part number     | Volume l | Bore mm | Height mm | Weight kg | Max pressure bar |
|-----------------|----------|---------|-----------|-----------|------------------|
| ACP04EA032R2KRA | 0,32     | 40      | 347       | 1,3       | 260              |
| ACP04EA050R2KRA | 0,5      | 40      | 523       | 1,9       | 260              |
| ACP05EA100E2KRB | 0,95     | 50      | 557       | 4,1       | 275              |
| ACP05EA200E2KRB | 2        | 50      | 1062      | 7,2       | 275              |
| ACP08EA400E2KRC | 4        | 80      | 1003      | 16,8      | 275              |

More sizes and versions available on request.

# HOSES AND HOSE FITTINGS

## Hoses

For our complete offering and further details, please refer to our main hose catalog or website at [parker.com](http://parker.com).



### HT2

2 wire braided No-Skive Compact hose for many mobile and industrial applications. Typical usage in agricultural machines or in power steering.

| Part number | Hose I.D. | Hose O.D. | Max. Working pressure Mpa/psi | Min. burst pressure | Min. bend radius mm | weight kg | Fitting series |
|-------------|-----------|-----------|-------------------------------|---------------------|---------------------|-----------|----------------|
| HT2-4       | 1/4       | 13.4      | 35.0 / 5000                   | 140.0 / 20000       | 50                  | 0.30      | 48             |
| HT2-5       | 5/16      | 15.0      | 29.7 / 4250                   | 118.8 / 17000       | 55                  | 0.35      | 48             |
| HT2-6       | 3/8       | 17.2      | 28.0 / 4000                   | 112.0 / 16000       | 65                  | 0.42      | 48             |
| HT2-8       | 1/2       | 20.4      | 24.5 / 3500                   | 98.0 / 14000        | 90                  | 0.52      | 48             |
| HT2-10      | 5/8       | 23.9      | 19.2 / 2750                   | 76.8 / 11000        | 100                 | 0.66      | 48             |
| HT2-12      | 3/4       | 27.7      | 15.7 / 2250                   | 62.8 / 9000         | 120                 | 0.86      | 48             |
| HT2-16      | 1         | 35.4      | 14.0 / 2000                   | 56.0 / 8000         | 150                 | 1.17      | 48             |



### 412

1 wire braided hose for pilot lines. No-Skive Compact hose with very tight bending radii.

| Part number | Hose I.D. | Hose O.D. | Max. Working pressure Mpa/psi | Min. burst pressure | Min. bend radius mm | weight kg | Fitting series |
|-------------|-----------|-----------|-------------------------------|---------------------|---------------------|-----------|----------------|
| 412-3       | 3/16      | 9.1       | 12.0 / 1700                   | 48.0 / 6800         | 20                  | 0.08      | 47 series      |
| 412-4       | 1/4       | 11.0      | 12.0 / 1700                   | 48.0 / 6800         | 25                  | 0.14      | nipple and     |
| 412-5       | 5/16      | 13.0      | 12.0 / 1700                   | 48.0 / 6800         | 3040                | 0.18      | 10049          |
| 412-6       | 3/8       | 14.0      | 12.0 / 1700                   | 48.0 / 6800         | 90                  | 0.23      | shell          |



### 692PU

2 wire braided No-Skive Compact hose with Polyurethane Cover for material handling industry where tight bend radii, flexibility, ozone, abrasion and shock resistance are needed and required. Ideal for over-the-sheave or reel applications.

| Part number | Hose I.D. | Hose O.D. | Max. Working pressure Mpa/psi | Min. burst pressure | Min. bend radius mm | weight kg | Fitting series |
|-------------|-----------|-----------|-------------------------------|---------------------|---------------------|-----------|----------------|
| 692PU-4     | 1/4       | 11.5      | 21.0 / 3045                   | 84.0 / 12180        | 40                  | 0.18      | 46             |
| 692PU-5     | 5/16      | 13.6      | 21.0 / 3045                   | 84.0 / 12180        | 40                  | 0.21      | 46             |
| 692PU-6     | 3/8       | 15.5      | 21.0 / 3045                   | 84.0 / 12180        | 40                  | 0.25      | 46             |
| 692PU-8     | 1/2       | 20.4      | 21.0 / 3045                   | 84.0 / 12180        | 50                  | 0.52      | 46             |



**492** 1 wire braided No-Skive Compact hose (EN857 1SC – ISO 11237 Type 1SC) for medium pressure hydraulic applications.

| Part number | Hose I.D. | Hose O.D. | Max. Working pressure Mpa/psi | Min. burst pressure | Min. bend radius mm | weight kg | Fitting series |
|-------------|-----------|-----------|-------------------------------|---------------------|---------------------|-----------|----------------|
| 492-4       | 1/4       | 11.5      | 28.0 / 4060                   | 112.0 / 16240       | 75                  | 0.18      | 46             |
| 492-6       | 3/8       | 15.5      | 22.5 / 3260                   | 90.0 / 13050        | 90                  | 0.25      | 46             |
| 492-8       | 1/2       | 18.9      | 19.0 / 2755                   | 76.0 / 11020        | 130                 | 0.33      | 46             |
| 492-10      | 5/8       | 22.2      | 15.0 / 2175                   | 60.0 / 8700         | 150                 | 0.41      | 46             |
| 492-12      | 3/4       | 26.0      | 15.0 / 2175                   | 60.0 / 8700         | 180                 | 0.56      | 46             |
| 492-16      | 1         | 33.3      | 11.0 / 1595                   | 44.0 / 6380         | 230                 | 0.75      | 46             |



**461LT** 2 wire braided No-Skive Compact hose (EN 857 2SC) for low temperatures environments. Such as forestry machines and refrigerated warehouses.

| Part number | Hose I.D. | Hose O.D. | Max. Working pressure Mpa/psi | min. burst pressure | Min. bend radius mm | weight kg | Fitting series |
|-------------|-----------|-----------|-------------------------------|---------------------|---------------------|-----------|----------------|
| 461LT-4     | 1/4       | 13        | 42.5 / 6160                   | 170.0 / 24640       | 75                  | 0.3       | 46 / 48        |
| 461LT-6     | 3/8       | 17        | 35.0 / 5075                   | 140.0 / 20300       | 90                  | 0.42      | 46 / 48        |
| 461LT-8     | 1/2       | 21        | 31.0 / 4495                   | 124.0 / 17980       | 130                 | 0.52      | 46 / 48        |
| 461LT-10    | 5/8       | 24        | 28.0 / 4060                   | 112.0 / 16240       | 160                 | 0.66      | 46 / 48        |
| 461LT-12    | 3/4       | 28        | 28.0 / 4060                   | 112.0 / 16240       | 195                 | 0.86      | 46 / 48        |
| 461LT-16    | 1         | 35        | 21.0 / 3045                   | 84.0 / 12180        | 250                 | 1.17      | 46 / 48        |



**462 and 462TC** 2 wire braided No-Skive Compact hose Exceeds EN 857-2SC - ISO 11237 Type 2SC Demanding medium pressure hydraulic applications in all markets

| Part number       | Hose I.D. | Hose O.D. | Max. Working pressure Mpa/psi | Min. burst pressure | Min. bend radius mm | weight kg | Fitting series |
|-------------------|-----------|-----------|-------------------------------|---------------------|---------------------|-----------|----------------|
| 462-4 / 462TC-4   | 1/4       | 13,4      | 42.5 / 6160                   | 170.0 / 24640       | 50                  | 0.3       | 46 / 48        |
| 462-6 / 462TC-6   | 3/8       | 17,2      | 35.0 / 5075                   | 140.0 / 20300       | 65                  | 0.42      | 46 / 48        |
| 462-8 / 462TC-8   | 1/2       | 20,4      | 31.0 / 4495                   | 124.0 / 17980       | 80                  | 0.52      | 46 / 48        |
| 462-10 / 462TC-10 | 5/8       | 23,9      | 28.0 / 4060                   | 112.0 / 16240       | 100                 | 0.66      | 46 / 48        |
| 462-12 / 462TC-12 | 3/4       | 27,7      | 28.0 / 4060                   | 112.0 / 16240       | 120                 | 0.86      | 46 / 48        |
| 462-16 / 462TC-16 | 1         | 35,4      | 21.0 / 3045                   | 84.0 / 12180        | 150                 | 1.17      | 46 / 48        |
| 462-20 / 462TC-20 | 1 1/4     | 45,1      | 17.2 / 2495                   | 68.8 / 9980         | 335                 | 1.8       | 46 / 48        |



**477** 2 wire braided No-Skive Compact hose for truck cranes and lifting equipment where small bending radii and reduced outside diameter brings a significant advantage. Restriction: Should not be used for high impulse hydraulic applications to replace spiral construction hoses.

| Part number | Hose I.D. | Hose O.D. | Max. Working pressure Mpa/psi | Min. burst pressure | Min. bend radius mm | weight kg | Fitting series |
|-------------|-----------|-----------|-------------------------------|---------------------|---------------------|-----------|----------------|
| 477-4       | 1/4       | 13.1      | 45.0 / 6500                   | 180.0 / 26000       | 65                  | 0.32      | 48             |
| 477-6       | 3/8       | 17.2      | 40.0 / 5800                   | 160.0 / 23200       | 75                  | 0.42      | 48             |
| 477-8       | 1/2       | 20.4      | 38.0 / 5500                   | 152.0 / 22000       | 105                 | 0.55      | 48             |
| 477-10      | 5/8       | 23.4      | 35.0 / 5000                   | 140.0 / 20000       | 160                 | 0.65      | 48             |
| 477-12      | 3/4       | 27.2      | 35.0 / 5000                   | 140.0 / 20000       | 200                 | 1.10      | 48             |
| 477-16      | 1         | 34.8      | 28.0 / 4000                   | 112.0 / 16000       | 250                 | 1.34      | 48             |



**371LT** 3 wire braided No-Skive Compact hose for low temperature for forestry machines and refrigerated warehouses. Excellent ozone resistance.

| Part number | Hose I.D. | Hose O.D. | Max. Working pressure Mpa/psi | Min. burst pressure | Min. bend radius mm | weight kg | Fitting series |
|-------------|-----------|-----------|-------------------------------|---------------------|---------------------|-----------|----------------|
| 371LT-6     | 3/8       | 21.4      | 44.5 / 6500                   | 178.0 / 25800       | 120                 | 0.73      | 70             |
| 371LT-8     | 1/2       | 24.6      | 41.5 / 6000                   | 166.0 / 24000       | 160                 | 0.90      | 70             |
| 371LT-10    | 5/5       | 28.2      | 35.0 / 5000                   | 140.0 / 20000       | 210                 | 1.09      | 70             |
| 371LT-12    | 3/4       | 32.2      | 35.0 / 5000                   | 140.0 / 20000       | 260                 | 1.36      | 70             |
| 371LT-16    | 1         | 39.7      | 28.0 / 4000                   | 112.0 / 16000       | 310                 | 1.78      | 70             |



**797TC** No-Skive GlobalCore Compact Spiral™ Tough Cover for high pressure applications. MSHA approved. Highly abrasion resistant Tough Cover.

| Part number | Hose I.D. | Hose O.D. | Max. Working pressure Mpa/psi | Min. burst pressure | Min. bend radius mm | weight kg | Fitting series |
|-------------|-----------|-----------|-------------------------------|---------------------|---------------------|-----------|----------------|
| 797TC-8     | 1/2       | 21.1      | 42.2 / 6000                   | 168.0 / 24000       | 100                 | 0.67      | 77             |
| 797TC-10    | 5/8       | 23.9      | 42.2 / 6000                   | 168.0 / 24000       | 115                 | 0.80      | 77             |
| 797TC-12    | 3/4       | 27.9      | 42.2 / 6000                   | 168.0 / 24000       | 135                 | 1.16      | 77             |
| 797TC-16    | 1         | 35.7      | 42.2 / 6000                   | 168.0 / 24000       | 165                 | 1.74      | 77             |
| 797TC-20    | 1 1/4     | 44.9      | 42.2 / 6000                   | 168.0 / 24000       | 225                 | 2.89      | 77             |
| 797TC-24    | 1 1/2     | 52.8      | 42.2 / 6000                   | 168.0 / 24000       | 305                 | 3.96      | 77             |
| 797TC-32    | 2         | 67.6      | 42.2 / 6000                   | 168.0 / 24000       | 380                 | 6.50      | 77             |



**811** No-Skive (SAE 100R4) Suction and Return Line applications. Small bend radii.

| Part number | Hose I.D. | Hose O.D. | Max. Working pressure Mpa/psi | Min. burst pressure | Vacuum kPa | Min. bend radius mm | weight kg | Fitting series |
|-------------|-----------|-----------|-------------------------------|---------------------|------------|---------------------|-----------|----------------|
| 811-12      | 3/4       | 30.0      | 2.1 / 300                     | 8.3 / 1200          | 85         | 65                  | 0.63      | 48             |
| 811-16      | 1         | 38.0      | 1.7 / 250                     | 6.9 / 1000          | 85         | 75                  | 0.96      | 48             |
| 811-20      | 1 1/4     | 45.0      | 1.4 / 200                     | 5.5 / 800           | 85         | 100                 | 1.22      | 48             |
| 811-24      | 1 1/2     | 52.0      | 1.0 / 150                     | 4.1 / 600           | 85         | 130                 | 1.55      | 48             |
| 811-32      | 2         | 64.0      | 0.7 / 100                     | 2.8 / 400           | 85         | 150                 | 1.87      | 48             |
| 811-40      | 2 1/2     | 75.0      | 0.4 / 62                      | 1.6 / 248           | 85         | 180                 | 2.45      | IF             |
| 811-48      | 3         | 90.0      | 0.4 / 62                      | 1.6 / 248           | 85         | 230                 | 3.20      | IF             |



## Multipurpose Transfer Hose - E-Z Form™ MP

| Part number   | Hose I.D. | Hose O.D. | Max. Working pressure Mpa/psi | Vacuum kPa | Min. bend radius mm | weight kg |
|---------------|-----------|-----------|-------------------------------|------------|---------------------|-----------|
| IH72191500/10 | 1 1/2     | 38.0      | 0.5 / 75                      | 0.9        | 74                  | 0.85      |
| IH72192000/10 | 2         | 51.0      | 0.5 / 75                      | 0.9        | 117                 | 1.44      |
| IH72192000/40 | 2         | 51.0      | 0.5 / 75                      | 0.9        | 117                 | 1.44      |
| IH72192500/10 | 2 1/2     | 64.0      | 0.5 / 75                      | 0.9        | 183                 | 1.74      |
| IH72192500/40 | 2 1/2     | 64.0      | 0.5 / 75                      | 0.9        | 183                 | 1.74      |
| IH72193000/10 | 3         | 76.0      | 0.5 / 75                      | 0.9        | 223                 | 2.23      |
| IH72193000/40 | 3         | 76.0      | 0.5 / 75                      | 0.9        | 223                 | 2.23      |



## 801PLUS Push-Lok Plus for low pressure applications

Parker's Push-Lok 801PLUS is a flexible all-round product with a nitrile (NBR) inner tube and a working pressure of up to 2.4 MPa, available in six different colors and compatible with 82 Series Push-Lok fittings in steel, stainless steel, and brass.

| Part number       | Hose I.D. | Hose O.D. | Max. Working pressure Mpa/psi | Min. burst pressure | Vacuum kPa | Min. bend radius mm | weight kg | Fitting series |
|-------------------|-----------|-----------|-------------------------------|---------------------|------------|---------------------|-----------|----------------|
| 801PLUS-4-XXX-RL  | ¼         | 12.1      | 2.4 / 350                     | 9.7 / 1400          | 95         | 65                  | 0.13      | 82             |
| 801PLUS-6-XXX-RL  | 3/8       | 15.6      | 2.4 / 350                     | 9.7 / 1400          | 95         | 75                  | 0.16      | 82             |
| 801PLUS-8-XXX-RL  | ½         | 19.4      | 2.1 / 300                     | 8.4 / 1200          | 95         | 125                 | 0.27      | 82             |
| 801PLUS-10-XXX-RL | 5/8       | 23.1      | 2.1 / 300                     | 8.4 / 1200          | 51         | 150                 | 0.28      | 82             |
| 801PLUS-12-XXX-RL | ¾         | 25.7      | 2.1 / 300                     | 8.4 / 1200          | 51         | 180                 | 0.36      | 82             |



## 221FR No-Skive Fire Retardant hose with Marine approval

| Part number | Hose I.D. | Hose O.D. | Max. Working pressure Mpa/psi | Min. burst pressure | Vacuum kPa | Min. bend radius mm | weight kg | Fitting series |
|-------------|-----------|-----------|-------------------------------|---------------------|------------|---------------------|-----------|----------------|
| 221FR-5     | 1/4       | 15        | 3.5 / 500                     | 14.0 / 2000         | 81         | 35                  | 0.28      | 26             |
| 221FR-6     | 5/16      | 17        | 3.5 / 500                     | 14.0 / 2000         | 81         | 30                  | 0.34      | 26             |
| 221FR-8     | 13/32     | 20        | 3.5 / 500                     | 14.0 / 2000         | 81         | 45                  | 0.42      | 26             |
| 221FR-10    | 1/2       | 23        | 3.5 / 500                     | 14.0 / 2000         | 81         | 55                  | 0.58      | 26             |
| 221FR-12    | 5/8       | 27        | 3.5 / 500                     | 14.0 / 2000         | 81         | 70                  | 0.61      | 26             |
| 221FR-16    | 7/8       | 31        | 3.5 / 500                     | 14.0 / 2000         | 81         | 90                  | 0.70      | 26             |



## 520N/528N – SAE 100R8 Hydraulic Hose

The high-pressure hose Parflex 520N/528N offers superior characteristics such as lower weight and improved bending capability and combines a range of advantages to meet the requirements of applications in the expanding fluid handling and industrial pneumatics markets.

| Part number | Part number Non-Conductive | Hose I.D. | Hose O.D. | Max. Working pressure 23°C Mpa/psi | Min. bend radius mm | weight kg | Fitting series |
|-------------|----------------------------|-----------|-----------|------------------------------------|---------------------|-----------|----------------|
| 520N-3      | 528N-3                     | 5         | 10.9      | 34.5 / 5000                        | 38.0                | 0.07      | 56             |
| 520N-4      | 528N-4                     | 6.3       | 13.0      | 34.5 / 5000                        | 51.0                | 0.10      | 56             |
| 520N-5      | 528N-5                     | 8         | 14.5      | 31.0 / 4500                        | 64.0                | 0.12      | 56             |
| 520N-6      | 528N-6                     | 10        | 16.5      | 27.6 / 4000                        | 64.0                | 0.13      | 56             |
| 520N-8      | 528N-8                     | 12.5      | 20.6      | 24.1 / 3500                        | 102.0               | 0.20      | 56             |

## WAVEMASTER™ Marine Barrier Fuel Line Hose

ISO 7840 A1 hose for Fuel, Biodiesel, ethanol, for Marine applications.



| Part number | Dia Ø mm |
|-------------|----------|
| 7165-25250  | 6,3      |
| 7165-31250  | 7,9      |
| 7165-38250  | 9,5      |
| 7165-50250  | 12,5     |
| 7165-63250  | 16       |

## Presto Tubing, DIN73378

PA 12 Presto Tubing is a reliable solution for demanding applications. Made of premium material the tubing has a superior chemical resistance for enhanced service life.



| Polyamide Presto Tube DIN73378 PA12 | Description                   |
|-------------------------------------|-------------------------------|
| N6X1/5-50                           | Black 6x1 mm tube, reel 50 m  |
| N8X1/5-50                           | Black 8x1 mm tube, reel 50 m  |
| N10X1/5-50                          | Black 10x1 mm tube, reel 50 m |
| N12X1/5-50                          | Black 12x1 mm tube, reel 50 m |

DIN74324 NTA-Polyurethane hose for Air-Brakes

## Ball Valves, Brass for general applications

Parker's BVGL & BVGLOCK series ball valves are manufactured with long female threads in accordance to DIN 2999/ISO 228. This enables the valves to be used with Prestolok and brass adaptors but also Parker's range of steel hydraulic fittings, e.g. Triple-Lok, O-Lok, EO, and BSPP coned adaptors.



| Part number | Description | Connection G |
|-------------|-------------|--------------|
| BVG4-1/4L   | Ball Valve  | 1/4"         |
| BV4-3/8L    | Ball Valve  | 3/8"         |
| BVG4-1/2L   | Ball Valve  | 1/2"         |
| BVG4-3/4L   | Ball Valve  | 3/4"         |
| BVG4-1L     | Ball Valve  | 1"           |

# TUBES AND FITTINGS

## Seamless EO steel tubes, material E235+N/St.37.4



### Design pressure

| Part number | Out mm | Wall thickness (mm) | DIN 2413 I static PN bar | DIN 2413 III dynamic PN bar | Burst pressure bar | Weight kg/m |
|-------------|--------|---------------------|--------------------------|-----------------------------|--------------------|-------------|
| R06X1CF     | 6      | 1                   | 444                      | 372                         | 1650               | 0.123       |
| R08X1CF     | 8      | 1                   | 333                      | 288                         | 1175               | 0.173       |
| R10X1CF     | 10     | 1                   | 282                      | 248                         | 900                | 0.222       |
| R10X1.5CF   | 10     | 1.5                 | 423                      | 357                         | 1450               | 0.314       |
| R12X1.5CF   | 12     | 1.5                 | 353                      | 303                         | 1150               | 0.388       |
| R15X1.5CF   | 15     | 1.5                 | 282                      | 248                         | 950                | 0.499       |
| R16X2CF     | 16     | 2                   | 353                      | 303                         | 1175               | 0.691       |
| R20X2CF     | 20     | 2                   | 212                      | 190                         | 675                | 0.684       |
| R20X2.5CF   | 20     | 2.5                 | 353                      | 303                         | 1100               | 1.079       |
| R22X2CF     | 22     | 2                   | 256                      | 227                         | 775                | 0.986       |
| R22X2.5CF   | 22     | 2.5                 | 320                      | 278                         | 1025               | 1.202       |
| R25X2.5CF   | 25     | 2.5                 | 282                      | 248                         | 850                | 1.387       |
| R25X3CF     | 25     | 3                   | 338                      | 292                         | 1025               | 1.628       |
| R28X2.5CF   | 28     | 2.5                 | 252                      | 223                         | 750                | 1.572       |
| R30X3CF     | 30     | 3                   | 282                      | 248                         | 850                | 1.998       |

For more information, see the Industrial Tube Fitting Europe catalogue.



# DIAGNOSTICS INSTRUMENTS

## ServiceJunior Kit

The ServiceJunior stands out for its easy operation. It measures and displays pressures in a single device. Measured values are shown with high precision on a 4-digit. display. Pressure peaks are securely captured at a scanning rate of 10 ms.



| Part number  | Description  | Product Series | Comment |
|--------------|--------------|----------------|---------|
| SCJN-KIT-016 | -1...016 bar | ServiceJunior  | blue    |
| SCJN-KIT-100 | 0...100 bar  | ServiceJunior  | green   |
| SCJN-KIT-400 | 0...400 bar  | ServiceJunior  | orange  |
| SCJN-KIT-600 | 0...600 bar  | ServiceJunior  | red     |

**Included in the supply package:** Equipment case, ServiceJunior SCJN-xxx-01 (accuracy  $\pm 0,5\%$  FS), Adapter SCA-1/4-EMA-3, Adapter SCA-EMA-3/3 and Testhose 1500 mm (SMA3-1500). There is Senso Control ServiceJunior Datalogger available. Option, All ServiceJuniors are available also with Calibration certificate. Ask more from your local dealer.

## Serviceman Plus Kit

Serviceman Plus is a mobile, extremely robust and easy to use measuring device for a large range of measuring tasks in mobile hydraulics or stationary hydraulic applications. With the automatic sensor recognition you can simply plug in pressure, temperature, flow or speed sensors and start measuring immediately. There is no need for parameterise the sensors because the measuring ranges are automatically scaled and the measured value shown on the display. Innovative memory system with nano USB stick. PC connection.



| Part number    | Description                  | Product Series | Comment                    |
|----------------|------------------------------|----------------|----------------------------|
| SCKIT-155-0-00 | Serviceman Plus kit (analog) | ServiceMan     | Sensors ordered separately |
| SCKIT-155-2-00 | Serviceman Plus kit (CAN)    | ServiceMan     | Sensors ordered separately |

**Included in the supply package:** Equipment case, Parker Serviceman Plus, USB stick, Power supply unit, PC connector cable, PC Software SensoWin®, 2xConnection cables, 2xAdapter SCA-EMA-3/3, 2xTesthose SMA3-1500CF. Option, All Serviceman Plus are available with Calibration certificate. Ask more from your local dealer.

## Service Master COMPACT

**The perfect blend of advanced features, robustness, and affordability without any compromises.**

Despite its advanced features, it's user-friendly, cost-effective, and designed for technicians of all experience levels, enhancing efficiency and productivity. Its compact, lightweight design makes it ideal for transportation and use in different locations.

Housed in a robust IP65 casing with a 4.3" touch screen, it allows on-site initial analyses and swift rectification of machine defects. The device, available in three versions, is compatible with various Parker sensors and comes with complimentary SensoWin 7 software for easy data upload and documentation.

The Parker Service Master COMPACT is a versatile, innovative device ideal for service applications in sectors like construction, agriculture, railway, and defense. It provides real-time monitoring and diagnostics of key parameters such as pressure, temperature, and flow rate, enabling proactive issue detection.



| Part number       | Description                                    | Product Series              | Comment                                                                                                 |
|-------------------|------------------------------------------------|-----------------------------|---------------------------------------------------------------------------------------------------------|
| SCKIT-370-0-02    | Analogue AUX device                            | Service Master COMPACT Kits | 4 Inputs for Parker analogue sensors + 2 inputs for standard industrial sensors                         |
| SCKIT-370-1-05    | CAN AUX device                                 | Service Master COMPACT Kits | Interface for up to 6 Parker CAN sensors + 2 inputs for standard industrial sensors                     |
| SCKIT-370-2-05    | CAN device                                     | Service Master COMPACT Kits | Interface for up to 6 Parker CAN sensors                                                                |
| SCKIT-370-0-PTQ   | Analogue AUX device                            | Service Master COMPACT Kits | 4 Inputs for Parker analogue sensors + 2 inputs for standard industrial sensors + Sensors and flowmeter |
| K-SCKIT-370-0-02  | Analogue AUX device<br>Calibrated acc. ISO9001 | Service Master COMPACT Kits | 4 Inputs for Parker analogue sensors + 2 inputs for standard industrial sensors                         |
| K-SCKIT-370-1-05  | CAN AUX device<br>Calibrated acc. ISO9001      | Service Master COMPACT Kits | Interface for up to 6 Parker CAN sensors + 2 inputs for standard industrial sensors                     |
| K-SCKIT-370-0-PTQ | Analogue AUX device<br>Calibrated acc. ISO9001 | Service Master COMPACT Kits | 4 Inputs for Parker analogue sensors + 2 inputs for standard industrial sensors + Sensors and flowmeter |

## Service Master CONNECT

The Parker Service Master CONNECT is a powerful diagnostic measuring device for mobile, stationary hydraulic applications, e.g. in the area of service, commissioning and development. It safely and accurately records values such as pressure, temperature, flow and frequency. Thanks to the robust IP65 design, it offers comprehensive protection against moisture and dirt and is resistant to impacts. Therefore, the device is very suitable for use in harsh environments.



| Part number | Description            | Product Series       | Comment                    |
|-------------|------------------------|----------------------|----------------------------|
| SMC-600-00  | Service Master Connect | ServiceMasterConnect | Sensors ordered separately |
| SCMI-600-01 | Input module analogue  | ServiceMasterConnect | Sensors ordered separately |
| SCMI-600-02 | Input module CAN       | ServiceMasterConnect | Sensors ordered separately |

**Included in the supply package:** Power supply with country adapters: EUR/UK/US/AUS, USB-2.0 cable (2 m), PC software

For our complete offering and further details, please refer to catalog CAT-4054-UK or the website at [parker.com](http://parker.com).

# QUICK COUPLERS

## ISO A, 6600-Series

The couplings of the 6600 series meet the requirements and dimensions of the ISO 7241-1 A standard. Used for a wide range of agricultural applications as well as mobile and construction equipment.



| Part number<br>Coupling | Body Size | Connection, BSPP | Seal | Max. Operation<br>Pressure Bar |
|-------------------------|-----------|------------------|------|--------------------------------|
| 6603-4-4                | 1/4"      | 1/4"             | NBR  | 350                            |
| 6603-6-6                | 3/8"      | 3/8"             | NBR  | 280                            |
| 6603-8-10               | 1/2"      | 1/2"             | NBR  | 280                            |
| 6603-12-12              | 3/4"      | 3/4"             | NBR  | 280                            |
| 6603-16-16              | 1"        | 1"               | NBR  | 280                            |



| Part number<br>Plug | Body Size | Connection, BSPP | Seal | Max. Operation<br>Pressure Bar |
|---------------------|-----------|------------------|------|--------------------------------|
| 6605-4-4            | 1/4"      | 1/4"             | NBR  | 350                            |
| 6605-6-6            | 3/8"      | 3/8"             | NBR  | 280                            |
| 6605-8-10           | 1/2"      | 1/2"             | NBR  | 280                            |
| 6605-12-12          | 3/4"      | 3/4"             | NBR  | 280                            |
| 6605-16-16          | 1"        | 1"               | NBR  | 280                            |

Dust Protection see catalogue CAT-3800-HYD\_UK

## T-Series

The T-series is characterized by a low pressure drop and maximum flow capacity. The coupling system is available as a double shut-off or straight-through version; the 2500 series can also be used as a single shut-off version. Sizes range from 1/8" to 2", also in stainless steel, with various seal options and dust caps. Sizes 3/8"-1 1/2" are also available with pressure eliminator.



| Part number<br>Coupling | Body Size | Connection, BSPP | Seal | Max. Operation<br>Pressure Bar |
|-------------------------|-----------|------------------|------|--------------------------------|
| 2510-QC                 | 1/4"      | 1/4"             | NBR  | 450                            |
| 3810                    | 3/8"      | 3/8"             | NBR  | 350                            |
| 5010                    | 1/2"      | 1/2"             | NBR  | 300                            |
| 7510                    | 3/4"      | 3/4"             | NBR  | 280                            |
| 10010                   | 1"        | 1"               | NBR  | 250                            |

| Part number<br>Plug | Body Size | Connection, BSPP | Seal | Max. Operation<br>Pressure Bar |
|---------------------|-----------|------------------|------|--------------------------------|
| 2520                | 1/4"      | 1/4"             | NBR  | 450                            |
| 3820                | 3/8"      | 3/8"             | NBR  | 350                            |
| 5020                | 1/2"      | 1/2"             | NBR  | 320                            |
| 7520-QC             | 3/4"      | 3/4"             | NBR  | 300                            |
| 10020               | 1"        | 1"               | NBR  | 280                            |

## ISOB, IB-Series

The ISOB, IB-series conform to ISO Standard 7241-1, Series B, and are compatible with other series with the same standard. To optimize performance and corrosion resistance, the female is made from brass and the male is made from hardened steel. Sizes range from 1/4" to 1", with various seal options and dust caps. An option with a pressure-eliminator function allows effortless connection with static and residual pressure, up to operating pressure. An option with a heavy-duty sleeve provides longer lifetime in very tough applications.



| Part number<br>Coupling | Body Size | Connection, BSPP | Seal | Max. Operation<br>Pressure Bar |
|-------------------------|-----------|------------------|------|--------------------------------|
| IB2510                  | 1/4"      | 1/4"             | NBR  | 400                            |
| IB3810                  | 3/8"      | 3/8"             | NBR  | 320                            |
| IB5010                  | 1/2"      | 1/2"             | NBR  | 300                            |
| IB7510                  | 3/4"      | 3/4"             | NBR  | 300                            |
| IB10010                 | 1"        | 1"               | NBR  | 250                            |

| Part number<br>Plug | Body Size | Connection, BSPP | Seal | Max. Operation<br>Pressure Bar |
|---------------------|-----------|------------------|------|--------------------------------|
| IB2520              | 1/4"      | 1/4"             | NBR  | 400                            |
| IB3820              | 3/8"      | 3/8"             | NBR  | 320                            |
| IB5020              | 1/2"      | 1/2"             | NBR  | 300                            |
| IB7520              | 3/4"      | 3/4"             | NBR  | 300                            |
| IB10020             | 1"        | 1"               | NBR  | 300                            |

## FF-series

The FF series offers high-performance, flat-face, spill-free couplings in sizes from 1/4" to 1". Designed for outstanding working pressure and flow performance, they can be operated easily with one hand. The plug features double seals, and a pressure eliminator is also available. Different seal options are available to suit various applications.



| Part number<br>Coupling | Body Size | Connection, BSPP | Seal | Max. Operation<br>Pressure Bar |
|-------------------------|-----------|------------------|------|--------------------------------|
| FF2510                  | 1/4"      | 1/4"             | NBR  | 800                            |
| FF3810                  | 3/8"      | 3/8"             | NBR  | 500                            |
| FF5010                  | 1/2"      | 1/2"             | NBR  | 450                            |
| FF7510                  | 3/4"      | 3/4"             | NBR  | 400                            |
| FF10010                 | 1"        | 1"               | NBR  | 350                            |

| Part number<br>Plug | Body Size | Connection, BSPP | Seal | Max. Operation<br>Pressure Bar |
|---------------------|-----------|------------------|------|--------------------------------|
| FF2520              | 1/4"      | 1/4"             | NBR  | 800                            |
| FF3820              | 3/8"      | 3/8"             | NBR  | 500                            |
| FF5020              | 1/2"      | 1/2"             | NBR  | 450                            |
| FF7520              | 3/4"      | 3/4"             | NBR  | 400                            |
| FF10020             | 1"        | 1"               | NBR  | 350                            |

## ISO 16028, FEM-series

The FEM series meets and exceeds ISO 16028 and is compatible with other series to the same standard. These flat-face couplings provide spill-free disconnection, minimal oil loss, easy cleaning, and low pressure drop for efficient performance. They feature ZnNi surface treatment for high corrosion resistance, standard sleeve locking, and one-hand operation. They are available in sizes from 1/4" to 1", including stainless steel and plate-mounted versions, as well as various seal and dust cap options.

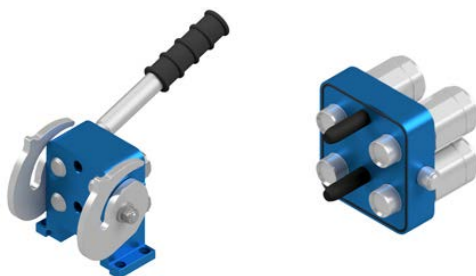


| Part number<br>Coupling | Body<br>Size | Connection,<br>G | Seal | Max. Operation<br>Pressure Bar |
|-------------------------|--------------|------------------|------|--------------------------------|
| FEM-251-4FB             | 1/4"         | 1/4"             | NBR  | 350                            |
| FEM-371-6FB             | 3/8"         | 3/8"             | NBR  | 350                            |
| FEM-501-8FB             | 1/2"         | 1/2"             | NBR  | 350                            |
| FEM-621-12FB            | 5/8"         | 3/4"             | NBR  | 350                            |
| FEM-751-12FB            | 3/4"         | 3/4"             | NBR  | 350                            |
| FEM-1001-16FB           | 1"           | 1"               | NBR  | 350                            |

| Part number<br>Plug | Body<br>Size | Connection,<br>G | Seal | Max. Operation<br>Pressure Bar |
|---------------------|--------------|------------------|------|--------------------------------|
| FEM-252-4FB         | 1/4"         | 1/4"             | NBR  | 350                            |
| FEM-372-6FB         | 3/8"         | 3/8"             | NBR  | 350                            |
| FEM-502-8FB         | 1/2"         | 1/2"             | NBR  | 350                            |
| FEM-622-12FB        | 5/8"         | 3/4"             | NBR  | 350                            |
| FEM-752-12FB        | 3/4"         | 3/4"             | NBR  | 350                            |
| FEM-1002-16FB       | 1"           | 1"               | NBR  | 350                            |

## Multi-Line

Multi-Line is a manual hydraulic multi-coupling system designed for the construction and industrial sectors, offering high functionality, long service life, and safety. It features spill-free flat-face couplings for pressures up to 350 bar and flows up to 240 l/min, with multiple coupling sizes, electrical connection options, standard pressure eliminators, and alternative locking lever functions.



For our complete offering and further details, please refer to catalog CAT/3800/UK or the website at [parker.com](http://parker.com).

# LEGRIS LOW PRESSURE COUPLERS

## Prestomatic Push-In Fittings

### Prestomatic Brass - Stud Fittings

#### Straights

F8UNPMB



F2NPMB



WEONPMB



WF8UNPMB



#### Elbows

C8UNPMB



V8UNPMB



#### F Connector

CS8UNPMB



#### Tees

S8UNPMB



R8UNPMB



### Adaptors and Accessories for Braking Systems

#### Elbows

D8C8UB



D8V8UB



#### Tees

MR08UB



MMS8UB



MM08BKT



#### Reducers

F8UG8B



#### Conversion Fittings

F8UGB



#### Straight Fittings

F8UHA8UB



#### Bulkhead Fittings

WGG88B



WG8FUB



#### Test Points

PPR8UM



P8UNBL



#### Plugs and Accessories

VDPF8UM



3126



WLN8



## LF3000® Low temperature Push-In Fittings

### Tube-to-Tube Fittings

3106

3102

3104

3140

3144



### Multiple Fittings

### Bulkhead Fitting

3116



### Plug-in-Fittings & Accessories

3182

3813

3188

3142

3120

3126



## Fuel Fittings

## Cartridges

### Prestomatic Fuel Fittings

F8UNDVB-V

C8UNDVB-V



### SAE Fuel Fittings

F8USAEVB



3100

3400



## PA Tubing

### PA Tubing - DIN74324



For our complete offering and further details, please refer to catalog CAT/0214/UK or the website at [parker.com](http://parker.com).

# PNEUMATIC CYLINDERS

## ISO 15552 Pneumatic Cylinders, Smooth Profile Design - P1F Series

The P1F Series in bore sizes  $\varnothing 32$  to 125mm is an ISO 15552 pneumatic cylinder suitable for standard, low & high temperatures. With various piston rod materials and wiper/rod sealing options for a wide range of applications. Strokes up to 2500 mm.



| Part number         |                    |
|---------------------|--------------------|
| P1F-S032LSxxxx-0000 | yyyy= Length in mm |
| P1F-S040LSxxxx-0000 | yyyy= Length in mm |
| P1F-S050LSxxxx-0000 | yyyy= Length in mm |
| P1F-S063LSxxxx-0000 | yyyy= Length in mm |
| P1F-S080LSxxxx-0000 | yyyy= Length in mm |
| P1F-S100LSxxxx-0000 | yyyy= Length in mm |
| P1F-S125LSxxxx-0000 | yyyy= Length in mm |

### Pneumatic Cylinders, Accessory

Flange MF1 /MF2



Foot brackets MS1



Pivot brackets with rigid bearing AB7



Swivel eye bracket MP6



Clevis bracket MP2



|                   |          |          |           |           |           |
|-------------------|----------|----------|-----------|-----------|-----------|
| $\varnothing 32$  | P1C-4KMB | P1C-4KMF | P1C-4KMDB | P1C-4KMSB | P1C-4KMTB |
| $\varnothing 40$  | P1C-4LMB | P1C-4LMF | P1C-4LMDB | P1C-4LMSB | P1C-4LMTB |
| $\varnothing 50$  | P1C-4MMB | P1C-4MMF | P1C-4MMDB | P1C-4MMSB | P1C-4MMTB |
| $\varnothing 63$  | P1C-4NMB | P1C-4NMF | P1C-4NMDB | P1C-4NMSB | P1C-4NMTB |
| $\varnothing 80$  | P1C-4PMB | P1C-4PMF | P1C-4PMDB | P1C-4PMSB | P1C-4PMTB |
| $\varnothing 100$ | P1C-4QMB | P1C-4QMF | P1C-4QMDB | P1C-4QMSB | P1C-4QMTB |
| $\varnothing 125$ | P1C-4RMB | P1C-4RMF | P1C-4RMDB | P1C-4RMSB | P1C-4RMTB |

Clevis bracket MP4



Clevis bracket AB6



Pivot brackets with swivel bearing CS7



3 and 4 position flange JP1



Pivot brackets AT4

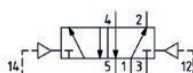
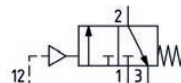
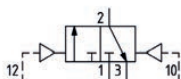


|                   |           |            |           |          |            |
|-------------------|-----------|------------|-----------|----------|------------|
| $\varnothing 32$  | P1C-4KMEB | P1C-4KMCEB | P1C-4KMAF | P1E-6KB0 | 9301054261 |
| $\varnothing 40$  | P1C-4LEMB | P1C-4LMCEB | P1C-4LMAF | P1E-6LB0 | 9301054262 |
| $\varnothing 50$  | P1C-4MMEB | P1C-4MMCEB | P1C-4MMAF | P1E-6MB0 | 9301054262 |
| $\varnothing 63$  | P1C-4NMEB | P1C-4NMCEB | P1C-4NMAF | P1E-6NB0 | 9301054264 |
| $\varnothing 80$  | P1C-4PMEB | P1C-4PMCEB | P1C-4PMAF | P1E-6PB0 | 9301054264 |
| $\varnothing 100$ | P1C-4QMEB | P1C-4QMCEB | P1C-4QMAF | P1E-6QB0 | 9301054266 |
| $\varnothing 125$ | P1C-4REMB | P1C-4RMCEB | P1C-4RMDB |          | 9301054266 |

# PNEUMATIC SOLENOID VALVES

## Pneumatic Solenoid Valve for Extreme Environments - Viking Xtreme Series

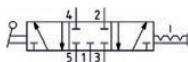
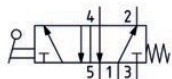
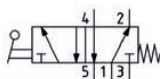
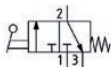
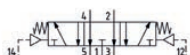
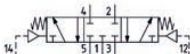
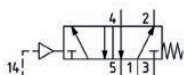
Viking Xtreme is a harsh industrial inline valve. It is a solenoid air piloted valve with bar manifold options and mobile rated coils. Salt-spray- and vibration-resistant. Temperature -40°C to +60°C, pressure vacuum to 16 bar. Port sizes: 1/8 to 1/2.



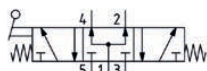
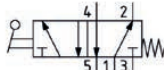
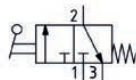
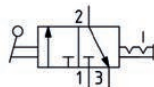
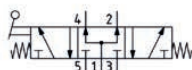
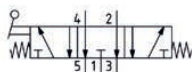
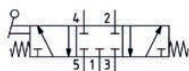
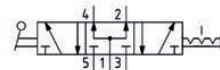
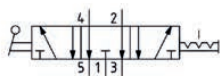
| Part number | Description         | Note                |
|-------------|---------------------|---------------------|
| P2LAX311PP  | 3/2, air-air, G1/8" | max pressure 16 bar |
| P2LBX312PP  | 3/2, air-air, G1/4" | max pressure 16 bar |
| P2LCX313PP  | 3/2, air-air, G3/8" | max pressure 12 bar |
| P2LDX314PP  | 3/2, air-air, G1/2" | max pressure 12 bar |

|            |                        |                     |
|------------|------------------------|---------------------|
| P2LAX311PS | 3/2, air-spring, G1/8" | max pressure 16 bar |
| P2LBX312PS | 3/2, air-spring, G1/4" | max pressure 16 bar |
| P2LCX313PS | 3/2, air-spring, G3/8" | max pressure 12 bar |

|            |                     |                     |
|------------|---------------------|---------------------|
| P2LAX511PP | 5/2, air-air, G1/8" | max pressure 16 bar |
| P2LBX512PP | 5/2, air-air, G1/4" | max pressure 16 bar |
| P2LCX513PP | 5/2, air-air, G3/8" | max pressure 12 bar |
| P2LDX514PP | 5/2, air-air, G1/2" | max pressure 12 bar |



| Part number | Description                     | Note                |
|-------------|---------------------------------|---------------------|
| P2LAX511PS  | 5/2, air-spring, G1/8"          | max pressure 16 bar |
| P2LBX512PS  | 5/2, air-spring, G1/4"          | max pressure 16 bar |
| P2LCX513PS  | 5/2, air-spring, G3/8"          | max pressure 12 bar |
| P2LDX514PS  | 5/2, air-spring, G1/2"          | max pressure 12 bar |
| P2LAX611PP  | 5/3, air-air, G1/8" closed      | max pressure 16 bar |
| P2LBX612PP  | 5/3, air-air, G1/4" closed      | max pressure 16 bar |
| P2LCX613PP  | 5/3, air-air, G3/8" closed      | max pressure 12 bar |
| P2LDX614PP  | 5/3, air-air, G1/2" closed      | max pressure 12 bar |
| P2LAX811PP  | 5/3, air-air, G1/8" open        | max pressure 16 bar |
| P2LBX812PP  | 5/3, air-air, G1/4" open        | max pressure 16 bar |
| P2LCX813PP  | 5/3, air-air, G3/8" open        | max pressure 12 bar |
| P2LDX814PP  | 5/3, air-air, G1/2" open        | max pressure 12 bar |
| P2LAX711PP  | 5/3, air-air, G1/8" pressurized | max pressure 16 bar |
| P2LBX712PP  | 5/3, air-air, G1/4" pressurized | max pressure 16 bar |
| P2LCX713PP  | 5/3, air-air, G3/8" pressurized | max pressure 12 bar |
| P2LDX714PP  | 5/3, air-air, G1/2" pressurized | max pressure 12 bar |
| P2LAX311VV  | 3/2, hand-hand, G1/8"           | max pressure 16 bar |
| P2LBX312VV  | 3/2, hand-hand, G1/4"           | max pressure 16 bar |
| P2LCX313VV  | 3/2, hand-hand, G3/8"           | max pressure 12 bar |
| P2LDX314VV  | 3/2, hand-hand, G1/2"           | max pressure 12 bar |
| P2LAX311VS  | 3/2, hand-spring, G1/8"         | max pressure 16 bar |
| P2LBX312VS  | 3/2, hand-spring, G1/4"         | max pressure 16 bar |
| P2LCX313VS  | 3/2, hand-spring, G3/8"         | max pressure 12 bar |
| P2LDX314VS  | 3/2, hand-spring, G1/2"         | max pressure 12 bar |
| P2LAX511VV  | 5/2, hand-hand, G1/8"           | max pressure 16 bar |
| P2LBX512VV  | 5/2, hand-hand, G1/4"           | max pressure 16 bar |
| P2LCX513VV  | 5/2, hand-hand, G3/8"           | max pressure 12 bar |
| P2LDX514VV  | 5/2, hand-hand, G1/2"           | max pressure 12 bar |
| P2LAX511VS  | 5/2, hand-spring, G1/8"         | max pressure 16 bar |
| P2LBX512VS  | 5/2, hand-spring, G1/4"         | max pressure 16 bar |
| P2LCX513VS  | 5/2, hand-spring, G3/8"         | max pressure 12 bar |
| P2LDX514VS  | 5/2, hand-spring, G1/2"         | max pressure 12 bar |
| P2LAX61122  | 5/3, hand, closed, G1/8"        | max pressure 16 bar |
| P2LBX61222  | 5/3, hand, closed, G1/4"        | max pressure 16 bar |
| P2LCX61322  | 5/3, hand, closed, G3/8"        | max pressure 12 bar |
| P2LDX61422  | 5/3, hand, closed, G1/2"        | max pressure 12 bar |



| Part number | Description            | Note                |
|-------------|------------------------|---------------------|
| P2LAX81122  | 5/3, hand, open, G1/8" | max pressure 16 bar |
| P2LBX81222  | 5/3, hand, open, G1/4" | max pressure 16 bar |
| P2LCX81222  | 5/3, hand, open, G3/8" | max pressure 12 bar |
| P2LDX81422  | 5/3, hand, open, G1/2" | max pressure 12 bar |

|            |                               |                     |
|------------|-------------------------------|---------------------|
| P2LAX71122 | 5/3, hand, pressurized, G1/8" | max pressure 16 bar |
| P2LBX71222 | 5/3, hand, pressurized, G1/4" | max pressure 16 bar |
| P2LCX71322 | 5/3, hand, pressurized, G3/8" | max pressure 12 bar |
| P2LDX71422 | 5/3, hand, pressurized, G1/2" | max pressure 12 bar |

|            |                                           |                     |
|------------|-------------------------------------------|---------------------|
| P2LAX61111 | 5/3, hand, closed, spring centered G1/8"  | max pressure 16 bar |
| P2LBX61211 | 5/3, hand, closed, spring centered G1/4"  | max pressure 16 bar |
| P2LCX61311 | 5/3, hand, closed, spring centered, G3/8" | max pressure 12 bar |

|            |                                         |                     |
|------------|-----------------------------------------|---------------------|
| P2LAX81111 | 5/3, hand, open, spring centered, G1/8" | max pressure 16 bar |
| P2LBX81211 | 5/3, hand, open, spring centered, G1/4" | max pressure 16 bar |
| P2LCX81311 | 5/3, hand, open, spring centered, G3/8" | max pressure 12 bar |
| P2LDX81411 | 5/3, hand, open, spring centered, G1/2" | max pressure 12 bar |

|            |                                                |                     |
|------------|------------------------------------------------|---------------------|
| P2LAX71111 | 5/3, hand, pressurized, spring centered, G1/8" | max pressure 16 bar |
| P2LBX71211 | 5/3, hand, pressurized, spring centered G1/4"  | max pressure 16 bar |
| P2LCX71311 | 5/3, hand, pressurized, spring centered G3/8"  | max pressure 12 bar |
| P2LDX71411 | 5/3, hand, pressurized, spring centered G1/2"  | max pressure 12 bar |

|            |                |                     |
|------------|----------------|---------------------|
| P2LBX312ZZ | 3/2, hand-hand | max pressure 16 bar |
|------------|----------------|---------------------|

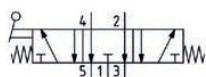
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|------------|------------------|---------------------|
| P2LBX312ZS | 3/2, hand-spring | max pressure 16 bar |
|------------|------------------|---------------------|

|            |               |                     |
|------------|---------------|---------------------|
| P2LBX512ZZ | 5/2 Hand-hand | max pressure 16 bar |
|------------|---------------|---------------------|

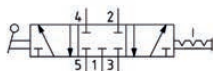
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| P2LBX512ZS | 5/2, hand-spring | max pressure 16 bar |
|------------|------------------|---------------------|

|            |                                    |                     |
|------------|------------------------------------|---------------------|
| P2LBX61255 | 5/3, hand, closed, spring centered | max pressure 16 bar |
|------------|------------------------------------|---------------------|

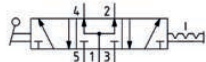
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|------------|-----------------------------------------|---------------------|
| P2LBX71255 | 5/3, hand, pressurized, spring centered | max pressure 16 bar |
|------------|-----------------------------------------|---------------------|



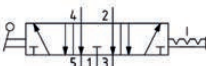
| Part number | Description                      | Note                |
|-------------|----------------------------------|---------------------|
| P2LBX81255  | 5/3, hand, open, spring centered | max pressure 16 bar |



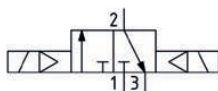
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| P2LBX61266 | 5/3, hand, closed | max pressure 16 bar |
|------------|-------------------|---------------------|



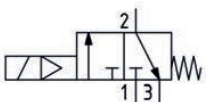
|            |                        |                     |
|------------|------------------------|---------------------|
| P2LBX71266 | 5/3, hand, pressurized | max pressure 16 bar |
|------------|------------------------|---------------------|



|            |                 |                     |
|------------|-----------------|---------------------|
| P2LBX81266 | 5/3, hand, open | max pressure 16 bar |
|------------|-----------------|---------------------|



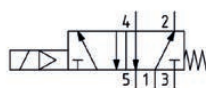
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|----------------|-------------------------------|---------------------|
| P2LAX311EEHDDN | 3/2, electric-electric, G1/8" | max pressure 16 bar |
| P2LBX312EEHDDN | 3/2, electric-electric, G1/4" | max pressure 16 bar |
| P2LCX313EEHDDN | 3/2, electric-electric, G3/8" | max pressure 12 bar |
| P2LDX314EEHDDN | 3/2, electric-electric, G1/2" | max pressure 12 bar |



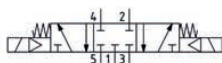
|                |                             |                     |
|----------------|-----------------------------|---------------------|
| P2LAX311ESHDDN | 3/2, electric-spring, G1/8" | max pressure 16 bar |
| P2LBX312ESHDDN | 3/2, electric-spring, G1/4" | max pressure 16 bar |
| P2LCX313ESHDDN | 3/2, electric-spring, G3/8" | max pressure 12 bar |
| P2LDX314ESHDDN | 3/2, electric-spring, G1/2" | max pressure 12 bar |



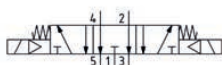
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|----------------|-------------------------------|---------------------|
| P2LAX511EEHDDN | 5/2, electric-electric, G1/8" | max pressure 16 bar |
| P2LBX512EEHDDN | 5/2, electric-electric, G1/4" | max pressure 16 bar |
| P2LCX513EEHDDN | 5/2, electric-electric, G3/8" | max pressure 12 bar |
| P2LDX514EEHDDN | 5/2, electric-electric, G1/2" | max pressure 12 bar |



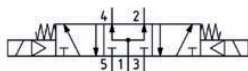
|                |                             |                     |
|----------------|-----------------------------|---------------------|
| P2LAX511ESHDDN | 5/2, electric-spring, G1/8" | max pressure 16 bar |
| P2LBX512ESHDDN | 5/2, electric-spring, G1/4" | max pressure 16 bar |
| P2LCX513ESHDDN | 5/2, electric-spring, G3/8" | max pressure 12 bar |
| P2LDX514ESHDDN | 5/2, electric-spring, G1/2" | max pressure 12 bar |



|                |                                               |                     |
|----------------|-----------------------------------------------|---------------------|
| P2LAX611EEHDDN | 5/3, electric, closed, spring centered, G1/8" | max pressure 16 bar |
| P2LBX612EEHDDN | 5/3, electric, closed, spring centered, G1/4" | max pressure 16 bar |
| P2LCX613EEHDDN | 5/3, electric, closed, spring centered, G3/8" | max pressure 12 bar |
| P2LDX614EEHDDN | 5/3, electric, closed, spring centered, G1/2" | max pressure 12 bar |



|                |                                   |                     |
|----------------|-----------------------------------|---------------------|
| P2LAX811EEHDDN | 5/3, open, spring centered, G1/8" | max pressure 16 bar |
| P2LBX812EEHDDN | 5/3, open, spring centered, G1/4" | max pressure 16 bar |
| P2LCX813EEHDDN | 5/3, open, spring centered, G3/8" | max pressure 12 bar |
| P2LDX814EEHDDN | 5/3, open, spring centered, G1/2" | max pressure 12 bar |



| Part number    | Description                              | Note                |
|----------------|------------------------------------------|---------------------|
| P2LAX711EEHDDN | 5/3, pressurized, spring centered, G1/8" | max pressure 16 bar |
| P2LBX712EEHDDN | 5/3, pressurized, spring centered, G1/4" | max pressure 16 bar |
| P2LCX713EEHDDN | 5/3, pressurized, spring centered, G3/8" | max pressure 12 bar |
| P2LDX714EEHDDN | 5/3, pressurized, spring centered, G1/2" | max pressure 12 bar |

| Part number | Description                         | Note                    |
|-------------|-------------------------------------|-------------------------|
| P2FCB447    | Coil 22mm, DIN B, 12 VDC            | If two solenoid valves, |
| P2FCB448    | Coil 22mm, DIN B, 24VDC             | remember to order       |
| 3EVI0V10    | Plug STD IP65, 12-24VDC             | 2 coils.                |
| 3EVI0V20-24 | Plug 24VDC, LED + protection, 24VDC |                         |

# VALVES FOR WATER

## 2-Way Normally Closed 1/2" Solenoid Brass Valves for General Purpose

Parkers' 2-Way Normally Closed G 1/2" Solenoid Valves provide operating pressures up to 40 bar and flow factors up to 4.7 m3/h. They offer multiple body and sealing materials for all general purpose fluid control applications.

Fluid temperature: -40 to +90 °C

2-Way Normally Closed 1/2" Solenoid Brass Valves for General Purpose, port size 10 mm.

### Barb Fitting



| Part number | Housing | Coil   | Voltage V | Sealing |
|-------------|---------|--------|-----------|---------|
| 321K1535    | 2168    | 495294 | 12        | EPDM    |
| 321K1535    | 2169    | 495294 | 24        | EPDM    |
| 321K1535    | 2168    | 496193 | 12        | EPDM    |
| 321K1535    | 2169    | 496193 | 24        | EPDM    |

### Pipe Mounting

| Part number | Housing | Coil   | Voltage V | Sealing | Port size |
|-------------|---------|--------|-----------|---------|-----------|
| 321K1537    | 2168    | 495294 | 12        | EPDM    | 15,9 mm   |
| 321K1537    | 2169    | 495294 | 24        | EPDM    | 15,9 mm   |
| 321K1537    | 2168    | 496193 | 12        | EPDM    | 15,9 mm   |
| 321K1537    | 2169    | 496193 | 24        | EPDM    | 15,9 mm   |

**NOTICE:** Complete solenoid valves are available. For more information, please contact your local Distributor.

# AIR PREPARATION

## Global Modular Preparation Systems for Compressed Air

Full featured particulate and coalescing filters, regulators, filter/regulators, and lubricators are available with a wide range of standard options to meet air preparation needs. The comprehensive Global Air Preparation System is available in three body sizes with either BSPP (EMEA) or NPT (US) to accommodate thread type requirements. Individual units can easily be assembled into various combinations, utilizing patented modular lightweight body connectors.



### P31 Mini Series 1/4" ports 40mm body width

Technical details, see page 14, main catalogue

| Part number    | Description      | Details                                     | Port size |
|----------------|------------------|---------------------------------------------|-----------|
| P31FB12EGMN    | Filter           | Poly Bowl, Manual Drain, 5µm filter element | 1/4"      |
| P31RB12BNNP    | Regulator        | 8 bar, without Gauge                        | 1/4"      |
| P31RB12BNTP    | Regulator        | 8 bar, with Square gauge                    | 1/4"      |
| P31EB12EGMBNTP | Filter/Regulator | 8 bar, Poly Bowl, Manual Drain, Gauge       | 1/4"      |
| P31KA00ESE     | Filter Element   | 5µ particle filter element                  |           |
| P31KB00MR      | Bracket          | Angle Bracket (attaches via panel nut)      |           |
| P31KA00MW      | Bracket          | C-bracket (fits to body)                    |           |
| P31KA00CB      | Body Connector   | For P31 Series                              |           |

### P32 Compact Series 1/4", 3/8" and 1/2" 60mm body width

| Part number    | Description      | Details                                     | Port size |
|----------------|------------------|---------------------------------------------|-----------|
| P32FB13EGAN    | Filter           | Poly Bowl, Auto Drain                       | 3/8"      |
| P32FB14EGAN    | Filter           | Poly Bowl, Auto Drain                       | 1/2"      |
| P32RB13BNNP    | Regulator        | 8 bar, without Gauge                        | 3/8"      |
| P32RB13BNGP    | Regulator        | 8 bar, with Round Gauge                     | 3/8"      |
| P32RB14BNNP    | Regulator        | 8 bar, without Gauge                        | 1/2"      |
| P32RB14BNGP    | Regulator        | 8 bar, with Round Gauge                     | 1/2"      |
| P32EB13EGMBNGP | Filter/Regulator | 8 bar, Poly Bowl, Manual Drain, Gauge       | 3/8"      |
| P32EB14EGMBNGP | Filter/Regulator | 8 bar, Poly Bowl, Manual Drain, Gauge       | 1/2"      |
| P32KA00ESE     | Filter Element   | 5µ particle filter element                  |           |
| P32KA00ML      | Bracket          | L-bracket (fits to body)                    |           |
| P32KB00MR      | Bracket          | Angle Bracket (fits to panel mount threads) |           |
| P32KA00CB      | Body connector   | For P32 Series                              |           |
| P3D-KAB1ANN    | Gauge            | 0-11 bar, Ø40 mm, R1/8"                     |           |
| P6G-ERB2110    | Gauge            | 0-11 bar, Ø50 mm, R1/4"                     |           |

## Accessories for Pneumatics

Technical details, see page 14, main catalogue



| Part number | Description            | Details               | Port size |
|-------------|------------------------|-----------------------|-----------|
| 0670 00 10  | Silencer               | Sintered Bronze, male | R 1/8"    |
| 0670 00 13  | Silencer               | Sintered Bronze, male | R 1/4"    |
| 0670 00 17  | Silencer               | Sintered Bronze, male | R 3/8"    |
| 0670 00 21  | Silencer               | Sintered Bronze, male | R 1/2"    |
| 0670 00 27  | Silencer               | Sintered Bronze, male | R 3/4"    |
| 7140 10 10  | Flow Control Regulator | Nickel-Plated Brass   | G1/8"     |
| 7140 13 13  | Flow Control Regulator | Nickel-Plated Brass   | G 1/4"    |
| 7140 17 17  | Flow Control Regulator | Nickel-Plated Brass   | G 3/8"    |
| 7140 21 21  | Flow Control Regulator | Nickel-Plated Brass   | G 1/2"    |

For our complete offering and further details, please refer to catalog PNDE3800DSUK or the website at [parker.com](http://parker.com).

# IQAN

## Master Display module - IQAN-MD5

Parker's IQAN-MD5 display controller is a family of master display units for IQAN control systems. The IQAN-MD's are fully programmable for use in any machine application as a master controller. The displays are available in three popular sizes.



| Part number | Model Number                        |
|-------------|-------------------------------------|
| 20085201    | Master Display Module 5"            |
| 20085202    | Master Display Module 8"            |
| 20085203    | Master Display Module 10,1"         |
| 20085204    | Master Display Module 12,3"         |
| 20085205    | Cable MX123 56P                     |
| 20085206    | Cable MX64-M12 Ethernet             |
| 20085207    | Connector Kit MX123 56P             |
| 20085208    | IQAN-MD5-5 Panel Mounting Kit       |
| 20085209    | IQAN-MD5-8/10/12 Panel Mounting Kit |

## Master controllers - IQAN-MC41/MC42/MC43

Parker's IQAN-MC4x is a family of master controllers. The three sizes are designed to suit different application needs:

- MC41 for cost-effective task oriented control
- MC42 for mid-size applications and I/O distribution
- MC43 for large space-saving centralized control



| Part number | Model Number    |
|-------------|-----------------|
| 20085111    | IQAN-MC41       |
| 20085112    | IQAN-MC42       |
| 20085113    | IQAN-MC43       |
| 20085121    | IQAN-MC41FS     |
| 20085122    | IQAN-MC42FS     |
| 20085123    | IQAN-MC43FS     |
| 20085211    | IQAN-MC41-M24   |
| 20085212    | IQAN-MC42-M24   |
| 20085213    | IQAN-MC43-M24   |
| 20085221    | IQAN-MC41FS-M24 |
| 20085222    | IQAN-MC42FS-M24 |
| 20085223    | IQAN-MC43FS-M24 |

## Expansion Controllers - IQAN-XC41/XC42/XC43/XC44

Parker's IQAN-XC4x expansion modules are perfect for increasing I/O in an IQAN system. They have voltage, current, digital and timer inputs. The outputs are proportional and digital. The modules communicate with an IQAN master module over a CAN bus.



| Part number | Model Number    |
|-------------|-----------------|
| 20085181    | IQAN-XC41       |
| 20085182    | IQAN-XC42       |
| 20085183    | IQAN-XC43       |
| 20085184    | IQAN-XC44       |
| 20085231    | IQAN-XC41 - M24 |
| 20085232    | IQAN-XC42 - M24 |
| 20085233    | IQAN-XC43 - M24 |

## Expansion controllers - IQAN-XC21/XC22/XC23

Parker's IQAN-XC21/XC22/XC23 expansion modules can be added to an IQAN system to increase I/O. They have voltage, digital, PWM and frequency inputs. The outputs are digital. The modules communicate with an IQAN master module over a CAN bus connection.



| Part number | Model Number |
|-------------|--------------|
| 20077775    | IQAN-XC21    |
| 20077784    | IQAN-XC22    |
| 20077792    | IQAN-XC23    |

## IQAN-LC5-X05 Large Analogue, Hall Effect, 2-axis Joysticks

The IQAN-LC5-X05 is a large, analogue, coordinate joystick. The base has 2 proportional axis and the handle can provide up to 2 additional axis plus a number of buttons. The IQAN-LC5-X05 is designed to withstand harsh operating conditions in mobile equipment.



| Part number | Model Number               |
|-------------|----------------------------|
| 20076317    | No handle                  |
| 20076318    | No handle, bellow included |
| 20076319    | Ball knob                  |
| 20076320    | MPB2W0T0 handle            |
| 20076321    | MPB2W0T1 handle            |
| 20076322    | MPB2W2T0 handle            |
| 20076323    | MPB2W2T1 handle            |
| 20076324    | MPB4W0T0 handle            |
| 20076325    | MPB4W0T1 handle            |
| 20076326    | MPB4W1T0 handle            |
| 20076327    | MPB4W1T1 handle            |
| 20076328    | MPB8W0T0 handle            |
| 20076329    | MPB8W0T1 handle            |
| 20077692    | N2 handle                  |
| 20077694    | N4T handle                 |
| 20077695    | N2T handle                 |
| 20077699    | N4 handle                  |
| 20077721    | MPBOW0T0 handle            |
| 20077722    | MPBOW0T1 handle            |
| 20077753    | G handle                   |

## IQAN-LC6-X05 Analogue Joysticks

The IQAN-LC6-X05 is a small, analogue, coordinate joystick. The base has 2 proportional axis and the handle can provide up to 2 additional axis. The IQAN-LC6-X05 is designed to withstand harsh operating conditions in mobile equipment.



| Part number | Model Number  |
|-------------|---------------|
| 20077757    | No handle     |
| 20077758    | H1R1K0 handle |
| 20077759    | H1R1K1 handle |

## IQAN-LC5-X05 Large Analogue, Hall Effect, 2-axis Joysticks

The IQAN-LC5-X05 is a large, analogue, coordinate joystick. The base has 2 proportional axis and the handle can provide up to 2 additional axis plus a number of buttons. The IQAN-LC5-X05 is designed to withstand harsh operating conditions in mobile equipment.



| Part number | Model Number       |
|-------------|--------------------|
| 20011365    | IQAN-LSL-E0-/-/-S  |
| 20011366    | IQAN-LSL-E0-DN-/-S |
| 20011367    | IQAN-LSL-E0-/-L1-S |
| 20011368    | IQAN-LSL-E0-/-L2-S |
| 20011369    | IQAN-LSL-E0-/-L3-S |
| 20011370    | IQAN-LSL-E1-/-/-S  |
| 20011371    | IQAN-LSL-E1-DN-/-S |
| 20014069    | IQAN-LSL-E0-/-/-D  |
| 20070174    | IQAN-LSL-E0-/-L2-D |
| 20076217    | IQAN-LSL-E1-/-L1-D |
| 20076218    | IQAN-LSL-E1-/-L2-D |
| 20076219    | IQAN-LSL-E1-/-L3-D |
| 20077706    | IQAN-LSL-E1-/-L4-D |
| 20077707    | IQAN-LSL-E1-/-L5-D |
| 20077714    | IQAN-LSL-E0-/-L4-D |
| 20077715    | IQAN-LSL-E0-/-L5-D |
| 20077749    | IQAN-LSL-E1-/-/-D  |
| 20077769    | IQAN-LSL-U0-/-L4-D |
| 20077770    | IQAN-LSL-U0-/-L5-D |
| 20077789    | IQAN-LSL-E0-/-L1-D |
| 20011381    | IQAN-LST-S         |
| 20014070    | IQAN-LST-D         |
| 20077729    | IQAN-LST-MF        |

## IQAN-G12 Bluetooth adapter

The IQAN-G12 is a Bluetooth® device that allows wireless connection to IQAN master modules using your smartphone or tablet. This adapter may be used on-site for diagnostics or provide off-site connectivity to technicians over the internet.



| Part number | Model Number |
|-------------|--------------|
| 20085200    | IQAN-G12     |

## IQAN-SV vision system camera

The IQAN-SV is an Ethernet (IP) camera that provides a vision system to vehicles using the IQAN-MD4 family of master display modules. This camera may be used as a mobile vehicle blind spot monitor or rear view camera in an IQAN control system.



| Part number | Model Number |
|-------------|--------------|
| 20085106    | IQAN-SV      |

## IQAN sensors

The IQAN-SP pressure transducers belong to the family of IQAN accessories developed to complement IQAN control systems. IQAN-SP is a range of pressure transducers for mobile hydraulic applications.



| Part number | Model Number | Connection |
|-------------|--------------|------------|
| 20073657    | IQAN-ST-G-B  |            |
| 20073658    | IQAN-ST-U-D  |            |
| 20073659    | IQAN-ST-M-B  |            |
| 2820008     | 0-35         | Deutsch DT |
| 2820009     | 0-500        | Deutsch DT |
| 5020026     | 0-35         | AMP/Tyco   |
| 5020027     | 0-500        | AMP/Tyco   |

## IQAN product connector kits

IQAN connector kits include all housing parts, terminals, and seals required for each controller's mating connector. Connector kits are available for AMP/Tyco, Deutsch, and Molex connectors.



| Part number | Model Number                                                    | Connection     |
|-------------|-----------------------------------------------------------------|----------------|
| 20085114    | IQAN-MC41, -MC42, -MC43, -XC44, -XC43, -XC42                    | Molex MX123    |
| 20085115    | IQAN-MC43, -XC44, -XC43, -XC41                                  | Molex MX123    |
| 5031097     | IQAN-LSL, -LST                                                  | AMP/Tyco       |
| 5031098     | IQAN-LSL options                                                | AMP/Tyco       |
| 5031113     | IQAN-LSL, -LST                                                  | Deutsch DT06   |
| 5035007     | IQAN-LC5-C0x                                                    | Deutsch DTM06  |
| 5035014     | IQAN-LSL-E0-//Lx-D                                              | Deutsch DT06   |
| 5035015     | IQAN-LSL-E1-//Lx-D                                              | Deutsch DT06   |
| 5035017     | IQAN-LC5-X05-N, G or MP handle                                  | Deutsch DTM04  |
| 5035018     | IQAN-LC5-X05-MP handle                                          | Deutsch DTM04  |
| 20072406    | IQAN-G1, -XC22                                                  | Deutsch DTM06  |
| 20072408    | IQAN-LC5-X05, -XC22, -XC23                                      | Deutsch DTM06  |
| 20077764    | IQAN-LC6-X05                                                    | Molex MicroFit |
| 20077776    | IQAN-XC21                                                       | Molex MicroFit |
| 5031086     | IQAN-SP, -ST                                                    | AMP/Tyco       |
| 5035010     | Sensors FP2000, FP3000, RM50                                    | Deutsch DTM06  |
| 5035011     | Sensors RF50, RF55, RS52, RS53, GS50, GS60, ATS50, ADS50, ACC50 | Deutsch DTM06  |
| 5035012     | Sensors FP4000, ATS90                                           | Deutsch DTM06  |
| 20085109    | IQAN-SV                                                         | Deutsch DTM06  |

## “IQAN Software Suite”



### For Programming:

IQANdesign is a high-level graphical design tool that simplifies application development for your mobile machine and reduces development time. This tool is mainly used for system layout and machine function design. There is a wide range of predefined building blocks available, such as closed-loop control, signal processing, calculations, communication protocols (e.g., SAE J1939), and system diagnostics.

A yearly subscription fee ensures that you always stay up to date with the latest version of IQANdesign. You can download and try IQANdesign before buying. Without a license, IQANdesign can only be used together with IQANsimulate (nothing can be downloaded to a real system).

### For Production and Service:

IQANrun is a user-friendly service, production and machine owner tool which lets you diagnose, measure, configure, adjust and update your machine. Future software updates are included with the IQANrun purchase. You can download and try IQANrun before buying. Without a license, IQANrun can only be used together with IQANsimulate (no communication with a real system).

### For Remote Diagnostics:

IQANconnect is our remote diagnostic service that lets you connect to your machines over the Internet. Once you are connected you can for example measure and adjust values in real-time, read logs and download new software.

## This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

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