Auxiliary Valves - Threaded Cartridge Valves

Directional Control Valves

zv 40
HY15-3501/USA/EU

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

Proportional Control Valves

zv 41

Valve Type	Max Working Pressure (bar)	Flow Capacity (l/min)	
Solenoid operated, two-way NC or NO proportional flow control valves	207	226	
Solenoid operated, two-way NO, proportional pressure control valves	207	150	
Solenoid operated, two-way NC throttle valves	207	20	
Solenoid operated, proportional pressure reducing valves	207	40	
Solenoid operated, three-way, proportional pressure control valves	207	11	

Auxiliary Valves - Threaded Cartridge Valves

Load Holding Valves


zv 42

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

Pressure Control Valves


zv 43

Valve Type	Max Working Pressure (bar)	Max Setting Pressure (bar)	Flow Capacity (l/min)	
Direct acting relief valves	345	345	0–150	
Cross-over relief valves	240	240	0–75	
Dual relief with anti-cavitation checks	345	345	0–60	
Pilot operated relief valves	345	345	0–375	
Pressure sensing valves	345		0–190	
Reducing/relieving valves	345	345	0–150	
Direct acting pressure reducing valves	345	345	0–60	
Pressure reducing valves	345	345	0–60	
Pressure reducing spools	345		0–19	
Sequence valves	345	345	0–150	
Unloading relief valves	240	207	0–6	
Logic elements	250	250	0–19	
Thermal relief	250	250	0–30	

Flow Control Valves


zv 44

Valve Type	Max Working Pressure (bar)	Max Flow Setting (l/min)	Flow Capacity (l/min)	
Needle valves	240		0–190	
Rotary adjust needle valves	240		0–60	
Flow divider/combiner valves	207		0–45	
Pilot control flow control valves	207		0–60	
Flow control valves	240		0–45	
Restrictive-type, pressure compensated valves	240		0–150	
Priority-type, pressure compensated valves	240	0–40	0–60	
Restrictive-type, pressure compensated flow regulator valves	240		0–60	
Priority-type, pressure compensated flow regulator valves	240	0–35	0–60	
Priority-type, pressure compensated flow regulator with relief	240	0–35	0–60	
Velocity fuses	207		0–30	

Auxiliary Valves

Threaded Cartridge Valves

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

zv 21

Valve Type	Max Working Pressure bar	Max Setting Pressure bar	Flow Capacity l/min	
Pressure relief valves	600	25-550	0-350	

Auxiliary Valves

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

- Stackable
- Reduce pipe work
- Reduce number of fittings
- Reduce number of directional control valves spool sections

The pressure reducing valve is of three-way design.

- Compact
- Easy to adjust
- Factory set and sealed

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

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

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

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

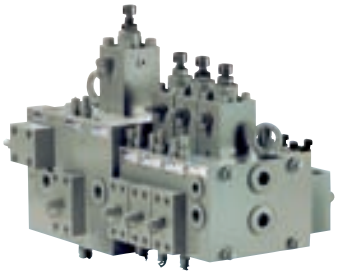
zv 21

Valve Type	Max Working Pressure bar	Flow Capacity l/min	
Stackable, 2-position, 4-way, solenoid operated, circuit selector control valves	210	40	
Pressure reducer valve	250	25	
Sequence valve	250	25	
Shuttle valve	250	20	

Hydraulic Manifold Blocks

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

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



Manifold blocks can be flanged to one or more directional valves as well as to pumps, cylinders, motors and filters. Some cartridge valve products offered by Parker include:

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

Parker's Hydraulic Cartridge Systems Europe Division offers value-added services such as manifold design using 3D CAD and CAM software, application engineering assistance and assembly and testing capabilities.

When you need finished integrated hydraulic circuits with extremely short lead times, the Parker 'Speed Shop' is the place to go. Parker's expert application engineers along with the latest computer-aided design technology can bring advanced new custom products to market faster. The solution to your problem is only minutes away when Parker's Quick Design proposals and quotes that are created using 3D CAD. Once the design is finalized, the 'Speed Shop' process is further streamlined by utilizing electronic communications and approvals. When design specifications meet customer requirements, Parker's CAD linked prototype machining produces fully functional hydraulic integrated circuits. All prototypes are fully tested and documented before being released to production. In today's highly competitive market, speed and quality are critical for success.

zv 22

SAE Flange Valves

SAE flange connections are the standard in hydraulic systems. In many cases there is a huge advantage to mount components such as pressure relief valves or check valves directly on the outlet flange of pumps or the inlet flange of actuators. Additionally the Parker flange-mounted product range offers the possibility to build complete functions or systems with standard components. Pressure, flow, check and directional seat valves with SAE flange:

- Compact and space-saving solutions
- Leakage prevention
- Easy mounting and reduced piping
- Modular concept of control units
- All hydraulic standard functions can be achieved

zv 23