

Hydraulic Cetop Control Valves

Industries most adaptable range

ERIKS

Directional Control Valves



Parker offers the industry's largest selection of hydraulic directional control valves, providing solenoid controlled as well as manually operated valves controlled by levers, cams, air or oil pilot.

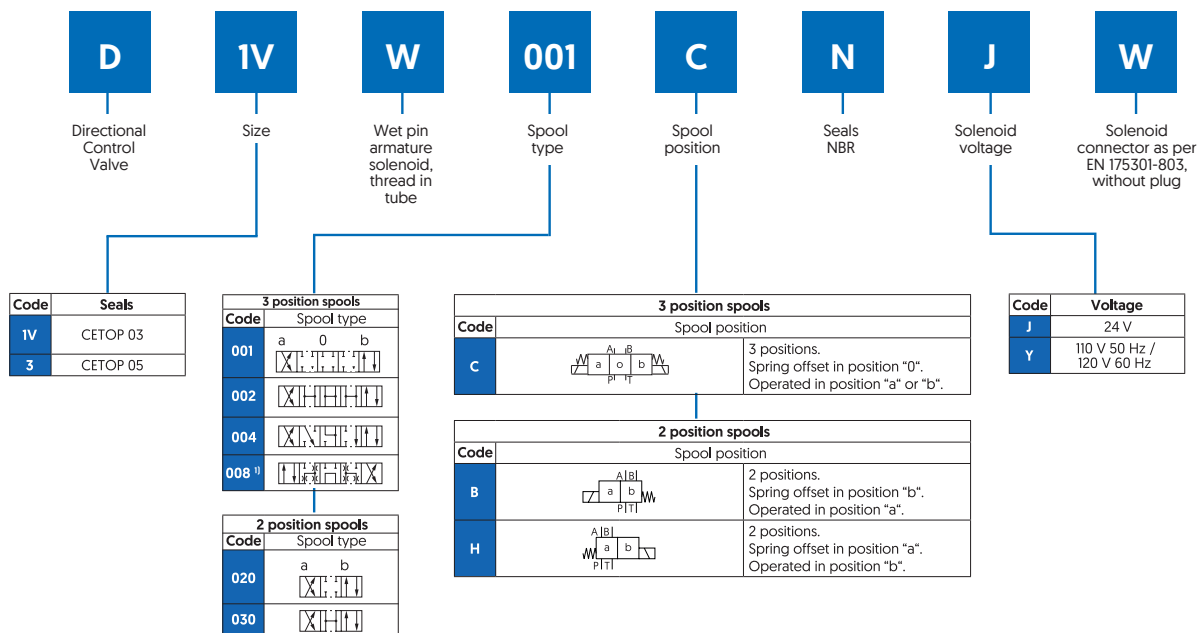
Parker valves are some of industry's most adaptable, with a large number of spool options available.

This is just a small selection of the range available, for further details contact your local service centre.

Markets Include

- Machine tools
- Power generation
- Metal forming
- Compacting and bailing
- Materials testing
- Ground support
- Primary metals processing

Part Numbering



Series D1VW

Parker's directional control valve series D1VW in NG06 [CETOP 03 / NFPA D03] provides high functional limits up to 80 l/min in combination with a very low, energy-saving pressure drop due to optimised flow passages. The maximum pressure is 350 bar.



PERFORMANCE CHARACTERISTICS

- Nominal Size NG06 / CETOP 03
- Mounting Style Subplate mounted
- Operation Style Direct
- Maximum Flow Rate 80 Litres/Min (depending on spool)
- Actuation Solenoid
- Connection Type Plug connector as per EN 175301-803, (not included)
- Weight 1.5 Kg [D1VW with 1 solenoid], 2.1 Kg [D1VW with 2 solenoids]

Part No.	Voltage	Spool in Neutral	Spring Arrangement	Spool Code
D1VW001CNYW	110V AC 50Hz	All Ports Blocked	Spring Centred	001
D1VW001CNJW	24V DC	All Ports Blocked	Spring Centred	001
D1VW002CNYW	110V AC 50Hz	All Ports Connected	Spring Centred	002
D1VW002CNJW	24V DC	All Ports Connected	Spring Centred	002
D1VW004CNYW	110V AC 50Hz	P Blocked, A and B to T	Spring Centred	004
D1VW004CNJW	24V DC	P Blocked, A and B to T	Spring Centred	004
D1VW008CNYW	110V AC 50Hz	P to T, A and B Blocked	Spring Centred	008
D1VW008CNJW	24V DC	P to T, A and B Blocked	Spring Centred	008
D1VW020BNYW	110V AC 50Hz	P to A, B to T	Spring offset in Pos B	020
D1VW020BNJW	24V DC	P to A, B to T	Spring offset in Pos B	020
D1VW020HNYW	110V AC 50Hz	P to A, B to T	Spring offset in Pos A	020
D1VW020HNJW	24V DC	P to A, B to T	Spring offset in Pos A	020
D1VW030BNYW	110V AC 50Hz	P to A, B to T	Spring offset in Pos B	030
D1VW030BNJW	24V DC	P to A, B to T	Spring offset in Pos B	030
D1VW030HNYW	110V AC 50Hz	P to A, B to T	Spring offset in Pos A	030
D1VW030HNJW	24V DC	P to A, B to T	Spring offset in Pos A	030

3 Position Spools

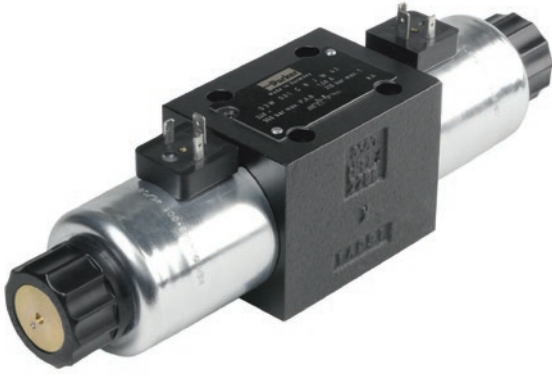
Code	Spool Type
001	
002	
004	
008	

2 Position Spools

Code	Spool Type
020	
030	

Series D3W

Parker's direct operated directional control valve series D3W in NG10 (CETOP 05/ NFFA D05) features low energy losses due to optimised flow passages for economical operation. It offers high functional limits up to 150 l/min and a maximum pressure of 350 bar.



PERFORMANCE CHARACTERISTICS

■ Nominal Size	NG10/CETOP 5
■ Mounting Style	Sub-plate mounting
■ Operation Style	Direct
■ Max Flow Rate	S150 l/min [depending on spool]
■ Actuation	Solenoid
■ Connection Type	Plug connector as per EN-175301-083 [not included]
■ Weight [Kg]	4.8 [1 solenoid], 6.3 [2 solenoids]

Part No.	Voltage	Spool in Neutral	Spring Arrangement	Spool Code
D3W001CNYW	110V AC 50Hz	All Ports Blocked	Spring Centred	001
D3W001CNJW	24V DC	All Ports Blocked	Spring Centred	001
D3W002CNYW	110V AC 50Hz	All Ports Connected	Spring Centred	002
D3W002CNJW	24V DC	All Ports Connected	Spring Centred	002
D3W004CNYW	110V AC 50Hz	P Blocked, A and B to T	Spring Centred	004
D3W004CNJW	24V DC	P Blocked, A and B to T	Spring Centred	004
D3W008CNYW	110V AC 50Hz	P to T, A and B Blocked	Spring Centred	008
D3W008CNJW	24V DC	P to T, A and B Blocked	Spring Centred	008
D3W020BNYW	110V AC 50Hz	P to A, B to T	Spring offset in Pos B	020
D3W020BNJW	24V DC	P to A, B to T	Spring offset in Pos B	020
D3W020HNYW	110V AC 50Hz	P to A, B to T	Spring offset in Pos A	020
D3W020HNJW	24V DC	P to A, B to T	Spring offset in Pos A	020
D3W030BNYW	110V AC 50Hz	P to A, B to T	Spring offset in Pos B	030
D3W030BNJW	24V DC	P to A, B to T	Spring offset in Pos B	030
D3W030HNYW	110V AC 50Hz	P to A, B to T	Spring offset in Pos A	030
D3W030HNJW	24V DC	P to A, B to T	Spring offset in Pos A	030

3 Position Spools

Code	Spool Type
001	
002	
004	
008	

2 Position Spools

Code	Spool Type
020	
030	

Direct Operated Pressure Relief Valve



The direct operated pressure relief valves series RDM are a sandwich design for easy configuration of stack systems. They relieve the pressure of the hydraulic system to the adjusted value.

Direct Operated Pressure Reducing Valve



Series PRDM are direct operated pressure reducing valves to regulate pressure in one area of a hydraulic circuit at a predetermined level below normal system pressure. Additionally, an integral pressure relieving function for the secondary reduced pressure circuit is incorporated into the design.

FEATURES

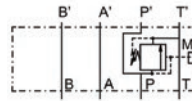
- 3-way design for pressure relieving of the secondary side. The direct operated, cushioned piston design results in fast response, low leakage and minimal hysteresis.
- Reduced pressure in the 'P', 'A' or 'B' port.

FUNCTION

PT... pressure is relieved from P to T

FEATURES

The direct operated, cushioned piston design results in fast response, low leakage and minimal hysteresis.



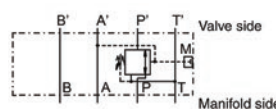
Part No.	Cetop	Pressure Range
RDM2PT2ISVG	3	up to 210 bar
RDM3PT2ISVG	5	up to 210 bar

Part No.	Cetop	Reduced pressure Port	Pressure Range
PRDM2PP2ISVG	3	P	up to 210 bar
PRDM2AA2ISVG	3	A	up to 210 bar
PRDM2BB2ISVG	3	B	up to 210 bar
PRDM3PP2ISVG	5	P	up to 210 bar
PRDM3AA2ISVG	5	A	up to 210 bar
PRDM3BB2ISVG	5	B	up to 210 bar

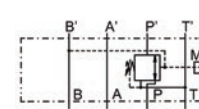
FUNCTION

These valves are "normally open" devices that allow fluid to flow through the controlled port during their non-actuated or "at rest" condition. When downstream pressure exceeds the value set by the spring force, the control piston moves off its seat, closing off the flow path and thus reducing the fluid passing through from the main system. The cushioned piston modulates to maintain the preset pressure in this branch of the hydraulic circuit. If, due to external forces, the pressure continues to rise in this branch circuit, the piston will keep moving against the spring force allowing fluid to be drained to the tank, thereby limiting maximum pressure to the valve's setting.

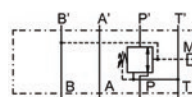
PRDM*AA



PRDM*BB



PRDM*PP



Flow Control Valve

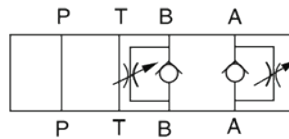
Double-throttle check valves from the Parker Manapak series FM are a sandwich design for easy configuration of stack systems. Throttle and check valves are located in ports A and B.



Part No.	Cetop	Pressure Range
FM2DDSV	3	Throttle check valve in the working port A and B
FM3DDSV	5	Throttle check valve in the working port A and B

FEATURES

- Adjustment via Hexagon socket
- Meter in/meter out (depending on orientation)
- FPM Seal



Pilot Operated Check Valve

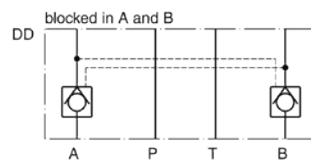
The valve bodies of the Parker Manapak valve series CPOM are made of steel.



Part No.	Cetop	Pressure Range	Poppet Style
CPOM2DDV	3	1.0 bar	A and B
CPOM3DDV	5	1.0 bar	A and B

FEATURES

- The valve poppet is precisely guided into the steel sleeve and ensures a good seal on the seat.
- When the valve poppet is open, the large cross-section allows high flow rates at low differential pressure.



Subplates Series SPD



Part No.	Cetop	Port Size	Port Entry
SPD23B910	3	P, A, B and T =G 3/8	Bottom Entry
SPD23BA910	3	P, A, B and T =G 3/8	Side Entry
SPD34B920	5	P, A, B and T =G 1/2	Bottom Entry

Multi Station Manifolds

Multi-station manifolds are used to save space when connecting several directional control valves to a common pressure and return line.

Diverse switching arrangements are possible in combination with sandwich and directional control valves. Plugs without designations must not be removed.



Part No.	Cetop	Stations	Port Size	Location
MSP2D23BA910	3	2	P + T =G 1/2 A + B =G 3/8	A+B side
MSP3D23BA910	3	3	P + T =G 1/2 A + B =G 3/8	A+B side
MSP4D23BA910	3	4	P + T =G 1/2 A + B =G 3/8	A+B side
MSP5D23BA910	3	5	P + T =G 1/2 A + B =G 3/8	A+B side
MSP2D34BA930	5	2	P = G 3/4 T =G1 A + B =G 1/2	A+B side
MSP3D34BA930	5	3	P = G 3/4 T =G1 A + B =G 1/2	A+B side
MSP4D34BA930	5	4	P = G 3/4 T =G1 A + B =G 1/2	A+B side
MSP5D34BA930	5	5	P = G 3/4 T =G1 A + B =G 1/2	A+B side

FUNCTION

- Very low pressure drop due to large drilling parameters
- P- and T-ports on both end faces
- Also available with gauge ports G $\frac{1}{4}$ [add 'C' to end of code]
- Separation in P or T channel optional - please consult your local ERIKS
- Interface : DIN24340 Form A CETOP ISO
- Working pressure Max 350 bar

Bolt Kits (Socket Head Cap Screw)

- For stacks larger than 3 items, use stud bar



Part No.	Size
BK375 (D1VW)	M5 x 30
BK400	M5 x 70
BK405	M5 x 110
BK424	M5 x 130
BK385 (D3W)	M6 x 40
BK412	M6 x 90

Hirschman Plugs

- Protection class IP65 for Voltages up to 250 V



Part No.	Colour
5001716	PG11 Black
5001717	PG11 Grey

eriks.co.uk



For your local Service Centre UK or Ireland Call: 0121 508 6000

ERIKS UK & Ireland Head Office:

Amber Way, Halesowen, West Midlands, B62 8WG

Let's make industry work better

ERIKS