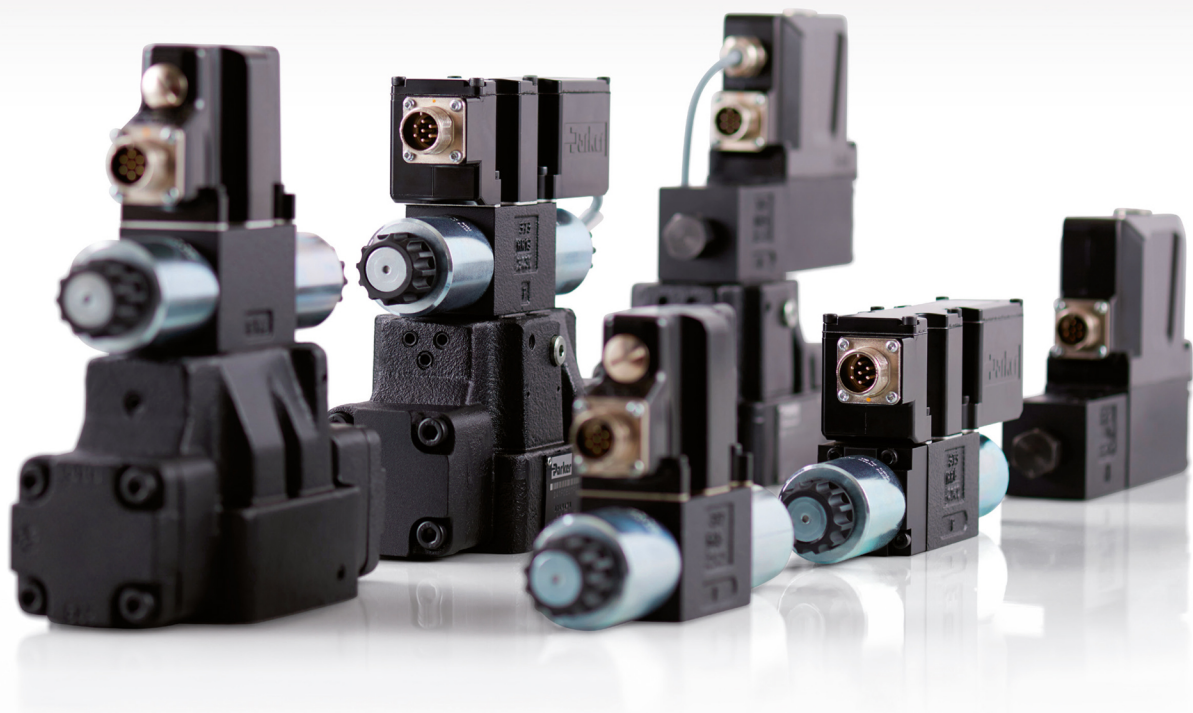


MSG11-3500/UK Hydraulic Valves Industrial Standard



HYDRAULIC VALVES INDUSTRIAL STANDARD



Alphanumeric product index, product index by function

Directional Control Valves

Seated valves, spool valves, direct and pilot operated

2

Proportional DC Valves

Standard, high repeatability, VCD® performance

3

Pressure Valves

Subplate and screw-in mounting

4

Flow Valves

Throttle and flow control valves, subplate and screw-in mounting

5

Check Valves

Shuttle valves, direct and pilot operated check valves, subplate and screw-in mounting

6

Sandwich Valves

For pressure, check and flow functions

7

Slip-In Cartridge Valves

According to ISO 7368, with pressure, directional, flow and check functions

8

SAE Flange Valves

For pressure, directional, flow and check functions

9

Valves for Pipe Mounting

With pressure, directional, flow and check functions

10

Electronics

Amplifiers, axis controllers and accessories

11

Accessories

Subplates, pressure gauge valves, pressure switches, pressure intensifiers

12



Series	Description	Direct operated					Pilot operated				Page
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	Seat valves, electrically operated										
D1SE		•									2-2
	Spool valves, electrically operated										
D1VW	Standard, soft shift	•									2-5
D1VW	8 Watt solenoid	•									2-13
D1VW	Inductive position control	•									2-19
D1VW	Explosion proof (conform to ATEX and IECEx)	•									2-28
D1MW	For wash down applications	•									2-33
D3W	Standard		•								2-39
D3W	Inductive position control		•								2-46
D3MW	For wash down applications		•								2-55
D31DW	Standard and position control						•				2-61
D31NW	Highest flow						•				
D41VW	Standard and inductive position control							•			
D91VW	Standard and inductive position control								•		
D111VW	Standard and inductive position control									•	
	Spool valves, hydraulically operated										
D1VP		•									2-74
D3DP			•								
D4P				•							
D9P					•						
D11P						•					
	Spool valves, pneumatically operated										
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D1VL		•									2-89
D3DL			•								
	Accessories										
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	O-rings and seal kits										2-98
	Slip-in orifices										2-99
	Mounting patterns										2-100

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Series	Description	Size	Operation		Electronics		LVDT	Spool Design			Page
		DIN/ISO	direct	pilot	external	onboard		Overlap	Zero lap	Spool/sleeve	
Introduction											3-2
	Standard										
D1FB		NG06	•		•			•	optional	optional	3-3
D1FB OBE		NG06	•			•		•	optional	optional	
D3FB		NG10	•		•			•		optional	3-14
D3FB OBE		NG10	•			•		•		optional	
D31FB		NG10		•	•			•			3-24
D31FB OBE		NG10		•		•		•			
D41FB		NG16		•	•			•			
D41FB OBE		NG16		•		•		•			
D91FB		NG25		•	•			•			
D91FB OBE		NG25		•		•		•			
D111FB		NG32		•	•			•			
D111FB OBE		NG32		•		•		•			
D1FV*3	Pilot valve	NG06	•		•			•			3-39
D1FV*3 OBE	Pilot valve	NG06	•			•		•			
	High repeatability										
D1FC		NG06	•			•	•	•			3-47
D3FC		NG10	•			•	•	•			3-55
D31FC		NG10		•		•	•	•			3-63
D41FC		NG16		•		•	•	•			
D91FC		NG25		•		•	•	•			
D111FC		NG32		•		•	•	•			
	VCD® performance*, for closed loop applications										
D1FP		NG06	•			•	•	•	•	•	3-73
D3FP		NG10	•			•	•	•	•	•	3-80
D1FP*D	w. freely config. control circuit	NG06		•		•	•	•	•	•	3-87
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D31FP		NG10		•		•	•	•	•		3-105
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D91FP		NG25		•		•	•	•	•		
D111FP		NG32		•		•	•	•	•		
D*FP, D*1FP	EtherCAT		•	•		•	•	•	•	•	3-115
	Accessories										
	Plug-in connectors										3-118
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* VCD® = Voice Coil Drive technology

Series	Description	Size						Mounting			Operation		Page
	Parker Standard DIN / ISO	06	10	06	10	25	32	Subplate	Panel	Screw-in	Direct	Pilot	
	Pressure relief valves, manual operation												
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VB				•				•			•		4-5
EVSA		•	•							•			4-8
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R4V/R6V					•	•	•	•				•	4-14
R4V/R6V	According to directive 97/23/EG (TÜV)				•	•	•	•				•	4-23
	Pressure relief valves, proportional operation												
RE06M*W	Onboard electronics			•				•			•		4-32
RE06M*T				•				•			•		4-36
R4V/R6V					•	•	•	•				•	4-42
R4V/R6V					•	•	•	•				•	4-48
VBV*K				•				•				•	4-56
	Unloading and sequence valves, manual operation												
R4U					•	•	•	•				•	4-61
R4S					•	•	•	•				•	4-67
	Pressure reducing valves, manual operation												
VM				•				•			•		4-70
R4R					•	•	•	•				•	4-73
	Pressure reducing valves, proportional operation												
R4R					•	•	•	•				•	4-77
	Accessories												
	Plug-in connectors												4-81

More pressure valves are presented in the following chapters:

Chapter 7: Sandwich Valves

Chapter 8: Slip-In Cartridge Valves

Chapter 9: SAE Flange Valves

Chapter 10: Valves for Pipe Mounting

Series	Description	Size						Mounting		Page
	Parker Standard DIN / ISO	1/4	3/8	1/2	3/4	1	06	10	16	Subplate Screw-in
Throttle valves, manual adjustment										
MVI		•	•	•	•					5-2
NS		•	•	•	•	•			•	5-4
FS	With free return flow	•	•	•	•	•			•	5-6
Flow control valves, manual adjustment										
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GFG2							•		•	5-10

More flow valves are presented in the following chapters:

Chapter 7: Sandwich Valves

Chapter 8: Slip-In Cartridge Valves

Chapter 9: SAE Flange Valves

Chapter 10: Valves for Pipe Mounting

Series	Description	Size												Mounting			Page
	Parker Standard DIN / ISO	1/8	1/4	3/8	1/2	3/4	1		06	10	16	25	32	Subplate	Screw-in	Slip-in	
	Shuttle valves																
SSR									•	•					•		6-2
	Check valves, direct operated																
RK / RB		•	•	•	•	•	•								•		6-4
CS			•	•	•	•	•							•			6-7
SPZBE											•	•	•			•	6-9
C4V										•		•	•	•			6-11
	Check valves, pilot operated																
C4V										•		•	•	•			6-14
	2/2-way seat valves																
D4S										•		•	•	•			6-18
	Accessories																
	Plugs																6-28

More check valves are presented in the following chapters:

Chapter 7: Sandwich Valves

Chapter 8: Slip-In Cartridge Valves

Chapter 9: SAE Flange Valves

Chapter 10: Valves for Pipe Mounting

Series	Description	Size				Page
	DIN / ISO	06	10	16	25	
	DC valve					
Z1DW	Shut-off valve					7-2
	Pressure relief valves, manual operation					
RDM	Direct operated	•	•			7-9
RM	Pilot operated			•	•	7-13
ZDV	Pilot operated, high performance	•	•			7-18
	Pressure reducing valves, manual operation					
PRDM	Direct operated, 3-way	•	•			7-22
PRM	Pilot operated, 2-way			•	•	7-27
ZDR	Pilot operated, 2-way, high performance	•	•			7-31
	Pressure reducing valves, proportional operation					
PRPM	Pilot operated, 3-way	•	•			7-35
	Throttle check valves					
FM		•	•	•	•	7-39
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CM		•	•			7-51
	Check valves, pilot operated					
CPOM		•	•	•	•	7-55
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ZNS	Pilot operated	•	•			7-60
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	Mounting patterns, general information					7-63

Further sandwich valves are presented in chapter 8 „slip-in cartridge valves“, see „accessories, pilot valves“

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Series	Description	Size										Page
		DIN / ISO	16	25	32	40	50	63	80	100	125	
	2-way slip-in cartridge valves											
	Introduction, hydraulic symbols, installation dimensions											8-2
CE / CP	2-way cartridge		•	•	•	•	•	•	•	•		8-4
C*A	Cover without auxiliary function		•	•	•	•	•	•	•	•		8-8
C*B	Cover with stroke limiter		•	•	•	•	•	•	•	•		8-9
C*C	Cover for pilot system mounting		•	•	•	•	•	•	•	•		8-11
C*F	Cover for pressure relief function		•	•	•							8-14
C*G	Cover for pressure relief function plus pilot system mounting		•	•	•							8-15
C*V	Cover with shuttle valve		•	•	•	•	•	•				8-16
C*W	Cover with shuttle valve plus pilot system mounting		•	•	•	•	•	•				8-17
	Accessories											
	Pilot valves											8-18
	Cover-, sandwich, adaptor plates											8-28
	Spare parts, seal kits											8-30
	Orifice diagram, orifice kits											8-31
	Complete valves and combination examples, pressure function											
R / RS*E	Pressure relief valves, manual adjustment		•	•	•	•	•	•				8-32
DSDU	Pilot operated pressure relief valve		•	•	•							8-38
RE*E*W	Pressure relief valves, proportional adjustment		•	•	•	•	•	•				8-41
RE*E*T	Pressure relief valves, proportional adjustment, OBE		•	•	•	•	•	•				8-45
UR*E/US*E	Pressure unloading valves		•	•	•	•	•	•				8-51
	Combination examples, pressure function		•	•	•	•	•	•				8-57
	Complete valves and combination examples, 2-way and check function											
C1DB	Direct operated check valve		•	•	•	•	•	•	•	•		8-75
SVLB	Pilot operated check valve		•	•	•	•	•					8-77
	Combination examples 2-way and check functions		•	•	•	•	•	•	•	•		8-80
	Complete valves, directional function with position control											
C10C*E			•	•	•	•	•	•	•	•		8-85
	Complete valves, active cartridges											
TDW				•	•	•	•	•	•	•	•	8-91
	Complete valves, flow function											
TDA	2-way proportional throttle valve		•	•	•	•	•	•	•	•		8-102
TEA	2-way proportional throttle valve with shut-off valve			•	•	•	•	•	•	•		8-106
TDC	2-way high performance proportional throttle valve			•	•	•	•					8-109
TDP	2-way servo proportional valve with VCD® technology			•	•	•	•	•	•	•	•	8-117
TEP	2-way servo proportional valve with shut-off valve			•	•	•	•	•	•	•	•	8-127
TFP	2-way servo proportional valve with VCD® technology						•	•	•	•		8-138
TPQ	3-way servo proportional valve with VCD® technology			•	•	•	•	•	•			8-158

Series	Description	Size				Mounting		Configuration		Page
	DIN / ISO	¾	1	1¼	1½	SAE61	SAE62	2-port	3-port	
	Pressure valves, manual operation									
R5V	Pressure relief function	•	•	•	•	•	•	•	•	9-2
R5U	Pressure unloading function	•	•	•		•			•	9-7
R5S	Pressure sequence function	•	•	•		•		•	•	9-12
	Pressure valves, proportional operation									
R5V*P2	Pressure relief function	•	•	•	•	•	•	•	•	9-15
	Directional seat valves									
D5S		•	•	•	•	•		•	•	9-20
	Flow valves									
F5C	Throttle valves, proportional	•	•	•		•		•		9-30
R5P	3-way pressure compensator	•	•	•		•			•	9-34
	Check valves									
C5V	Direct operated	•	•	•	•	•	•	•		9-41
	Accessories									
	Bolt kits, flanges, plugs									9-45

Series	Description	Size										Body		Page
	DIN / ISO	1⁄8	1⁄4	3⁄8	1⁄2	3⁄4	1	1¼	1½	2	L-port	T-port		
	Pressure valves, manual operation													
R4V	Pressure relief function				•	•	•	•			•	•	10-2	
R4R	Pressure reducing function				•	•	•	•			•	•	10-8	
	Pressure valves, proportional operation													
R4V*P2	Pressure relief function				•	•	•	•			•	•	10-14	
R4R*P2	Pressure reducing function				•	•	•	•			•	•	10-19	
	Directional seat valves													
D4S	In-line mounted				•	•	•	•			•	•	10-24	
	Flow valves													
MV / 9MV	Throttle valve, with handle	•	•	•	•	•	•						10-33	
N / 9N	Throttle valve, with knob	•	•	•	•	•	•						10-35	
F / 9F	Throttle check valve, with knob	•	•	•	•	•	•	•	•	•			10-37	
PCM / 9PCM	Flow control valve, with knob		•	•	•	•	•						10-39	
	Check valves													
C / 9C	Direct operated	•	•	•	•	•	•						10-41	
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	Amplifiers for proportional valves																	
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PWDXX	For valves with position transducer or valves in closed loop systems	•				•		•		•	•	•	•		•		•	11-8
PCD00	For up to 2 single solenoid valves w/o transducer					•		•		•	•	•	•		•		•	11-12
	Electronics for command signal processing																	
PZD00	Min/max adjustment, 6 command channels, 6+1 ramps		•	•	•		•		•						•		•	11-16
	Axis controller																	
PID00	For position, pressure and speed control in closed loop systems		•	•	•		•		•						•		•	11-20
PAC120	Parker Automation Controller																	11-24
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EX-M05	Test unit for items with integrated electronics																	11-30

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Series	Description	Size										Page
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SPD	Subplates, BSPP threads, DC valves	•	•	•	•							12-2
A	Subplates, metric threads, DC valves	•	•									12-7
SPP	Subplates, BSPP threads, pressure valves, DIN / ISO		•		•	•						12-8
A102	Subplates for pressure valves, styles VB and VM		•									12-11
MSP	Multi-station manifold, DC valves	•	•									12-12
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	Symbols											12-19
PADA	Sandwich and adaptor plates	•	•									12-21
H06	Sandwich plates	•										12-22
CS06	Sandwich and cover plates	•										12-26
D51*	Cover plates	•	•									12-28
CB	Cartridge manifold block			•	•	•	•	•	•	•	•	12-30
	Accessories for manifolds and systems											
BK	Bolt kits											12-32
TK	Tie rod kits											12-33
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WM	Pressure gauge selector valve											12-34
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PSB	Pressure switches											12-36
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SD500	Pressure intensifiers											12-47

Product Index, Alphanumeric

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A102	Subplate for pressure valves	12-11
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C*B	2-way slip-in cartridge valve with stroke limiter	8-9
C*C	2-way slip-in cartridge valve for pilot system mounting	8-11
C*F	2-way slip-in cartridge valve for pressure relief function	8-14
C*G	2-way slip-in cartridge valve for pressure relief function plus pilot system mounting	8-15
C*H	2-way slip-in cartridge valve with stroke limiter	8-16
C*V	2-way slip-in cartridge valve with shuttle valve	8-19
C*W	2-way slip-in cartridge valve with shuttle valve	8-20
C10C*E	2-way slip-in cartridge valve with position control	8-85
C1DB	2-way slip-in cartridge valve, check valve	8-75
C4V	Check valve, direct operated	6-11
C4V	Check valve, pilot operated	6-14
C5V	Check valve, direct operated, SAE flange	9-41
CB	Cartridge block	12-30
CE, CP	2-way slip-in cartridge valve without cover	8-4
CM	Check valve, direct operated	7-51
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D*1VW	DC valve, pilot operated	2-61
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D1FC	DC valve, direct operated, proportional	3-47
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D1FP	DC valve, direct operated, with EtherCAT	3-115
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D3DP	DC valve, direct operated, hydraulically	2-85
D3FB	DC valve, direct operated, proportional, with / w/o OBE	3-14
D3FC	DC valve, direct operated, proportional	3-55
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D3FP	DC valve, direct operated, with EtherCAT	3-115
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D3W	DC valve, direct operated, with inductive position control	2-46
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FM	Throttle check valve	7-39
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GFG2	Flow control valve, 2-way	5-10
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NS	Needle valve	5-4
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PACHC	Electrohydraulic control module	11-27
PADA	Adaptor plate	12-21
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PCD00	E-module for proportional pressure flow control valves	11-12
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R1E02	Pressure relief valve, direct operated	4-11
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R4R	Pressure reducing valve, pilot operated, subplate mounting	4-73
R4R*P2	Pressure reducing valve, pilot operated, proportional, pipe mounting	10-19
R4R*P2	Pressure reducing valve, pilot operated, proportional, subplate mounting	4-77
R4S	Sequence valve, pilot operated, subplate mounting	4-67
R4U	Unloading valve, subplate mounting	4-61
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R5P	Pressure compensator, 3-way, SAE flange	9-34
R5S	Sequence valve, pilot operated, SAE flange	9-12
R5U	Unloading valve, pilot operated, SAE flange	9-7
R5V*P2	Pressure relief valve, pilot operated, proportional, SAE flange	9-15
RDM	Pressure relief valve, direct operated	7-9
RE*E*T	Pressure relief valve, pilot operated, proportional, OBE, cartridge	8-45
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