

The NG06 directional control valve series D1VW provides high functional limits up to 80 l/min in combination with a very low, energy-saving pressure drop.

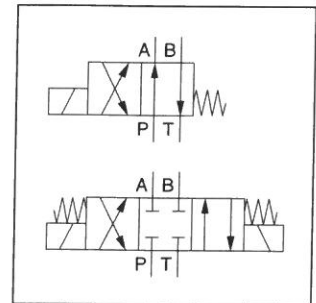
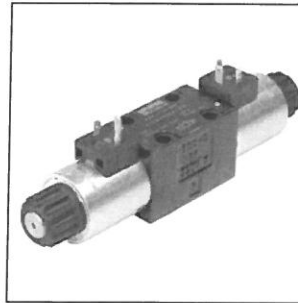
A wide variety of spool options allows to design an unlimited number of hydraulic circuits.

Versions with 8 watt coils, position control, ATEX approval, surface protection and connector variants are shown in the following chapters.

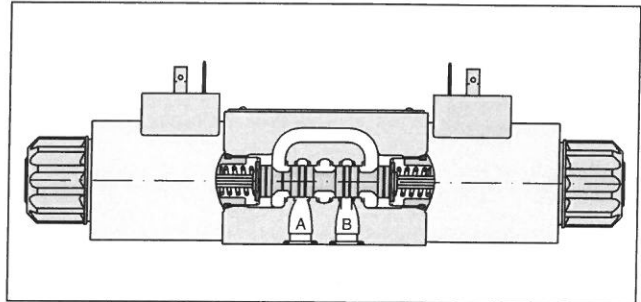
The valve is also available as sandwich type, see series Z1DW in chapter 7.

Valves with explosion proof solenoids Ex e mb II see series D1VW Explosion Proof in chapter 2 and catalogue HY11-3343.

Download: www.parker.com/euro_hcd - see "Literature"



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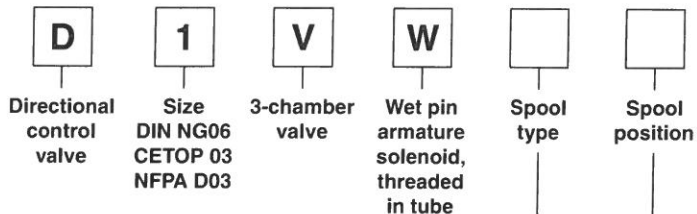


Technical data

General	
Design	Directional spool valve
Actuation	Solenoid
Nominal size	DIN NG06 / CETOP 03 / NFPA D03
Mounting interface	DIN 24340 A6 / ISO 4401 / CETOP RP 121-H / NFPA D03
Mounting position	unrestricted, preferably horizontal
Ambient temperature	[°C] -25...+60
MTTF _D value	[years] 150
Weight	[kg] 1.5 (1 solenoid), 2.1 (2 solenoids)
Vibration resistance	[g] 10 Sinus 5...2000 Hz acc. IEC 68-2-6 30 Random noise 20...2000 Hz acc. IEC 68-2-36 15 Shock acc. IEC 68-2-27
Hydraulic	
Max. operating pressure	[bar] P, A, B: 350; T: 210 (DC), T: 140 (AC)
Fluid	Hydraulic oil according to DIN 51524
Fluid temperature	[°C] -20 ... +70 (NBR: -25...+70)
Viscosity permitted	[cSt] / [mm ² /s] 2.8...400
Viscosity recommended	[cSt] / [mm ² /s] 30...80
Filtration	ISO 4406 (1999); 18/16/13
Flow max.	[l/min] 80 (see shift limits)
Leakage at 50 bar	[ml/min] Up to 10 per flow path, depending on spool, up to 15 per flow path for spool type 008 + 009
Static / Dynamic	
Step response	see table response time
Electrical characteristics	
Duty ratio	[%] 100 ED; CAUTION: coil temperature up to 150 °C possible
Max. switching frequency	[1/h] 15000 (not for soft shift)
Protection class	IP 65 in accordance with EN 60529 (with correctly mounted plug-in connector)
Code	K J U G Y T
Supply voltage	[V] 12 V = 24 V = 98 V = 205 V = 110 V at 50 Hz/ 230 V at 50 Hz/ 120 V at 60 Hz 240 V at 60 Hz
Tolerance supply voltage	[%] ±10 ±10 ±10 ±10 ±5 ±5
Current consumption hold	[A] 2.72 1.29 0.33 0.13 0.6 / 0.55 0.3 / 0.27
Current consumption in rush	[A] 2.72 1.29 0.33 0.13 2.5 / 2.4 1.25 / 1.2
Power consumption hold	32.7 W 31 W 31.9 W 28.2 W 70 / 70 VA 70 / 70 VA
Power consumption in rush	32.7 W 31 W 31.9 W 28.2 W 280 / 290 VA 280 / 290 VA
Solenoid connection	Connector as per EN 175301-803, solenoid identification as per ISO 9461 (code W).
Wiring min.	[mm ²] 3 x 1.5 recommended
Wiring length max.	[m] 50 recommended

With electrical connections the protective conductor (PE ⚡) must be connected according to the relevant regulations.

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3 position spools	
Code	Spool type
	a 0 b
001	
002	
003	
004	
005	
006	
007	
008 ¹⁾	
009 ¹⁾	
010	
011	
014	
015	
016	
021	
022	
031	
032	
034	
035	
061	
081	
082	
102	
204 ¹⁾	
205 ¹⁾	

2 position spools	
Code	Spool type
	a b
020	
026	
030	
083 ¹⁾	
101	
208	

3 position spools		
Code	Spool position	
C		3 positions. Spring offset in position "0". Operated in position "a" or "b".
	Standard	Spool type 008,009, 204, 205
E		2 positions. Spring offset in position "0".
	Operated in position "a".	Operated in position "b".
F		2 positions. Operated in position "0".
	Spring offset in position "b".	Spring offset in position "a".
K		2 positions. Spring offset in position "0".
	Operated in position "b".	Operated in position "a".
M		2 positions. Operated in position "0".
	Spring offset in position "a".	Spring offset in position "b".

2 position spools		
Code	Spool position	
	Standard	Spool type 083
B		2 positions. Spring offset in position "b". Operated in position "a".
D		2 positions. Operated in position "a" or "b". No center or offset position.
H		2 positions. Spring offset in position "a". Operated in position "b".

¹⁾ Consider specific spool position.
²⁾ To be used in combination with rectifier plugs at 120 VAC / 230 VAC power supply.
³⁾ DC only



Code	Solenoid option
omit	manual override (Standard)
T	without manual override
S2 ³⁾	Soft shift orifice size 0.5 mm.
S3 ³⁾	Soft shift orifice size 0.75 mm.
4N ³⁾	with lockable manual override

Code	Voltage
K	12 V =
J	24 V =
U ²⁾	98 V =
G ²⁾	205 V =
Y	110 V 50 Hz / 120 V 60 Hz
T	230 V 50 Hz / 240 V 60 Hz

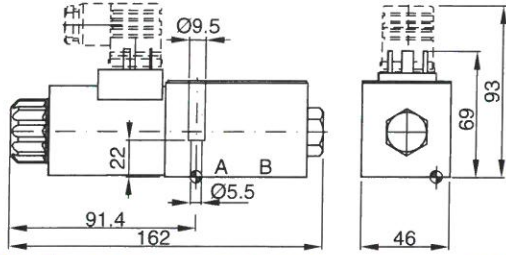
Code	Seals
N	NBR
V	FPM

Bold letters =
 Short-term availability

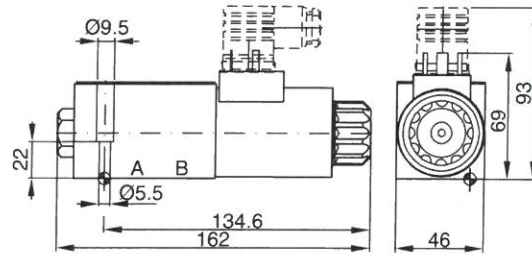
Further spool types, solenoid voltages and connectors on request.

Dimensions

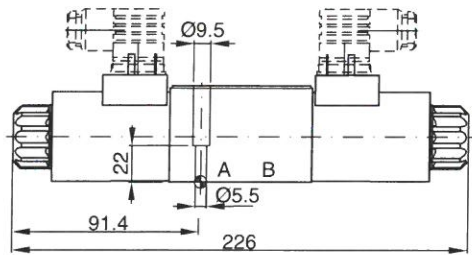
**Interface EN 175301-803, DC solenoid
B, E, F-style**



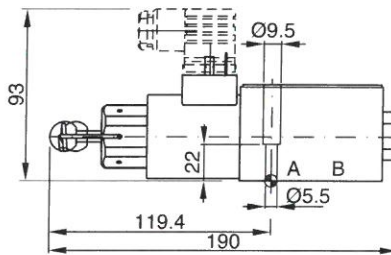
H, K, M-style



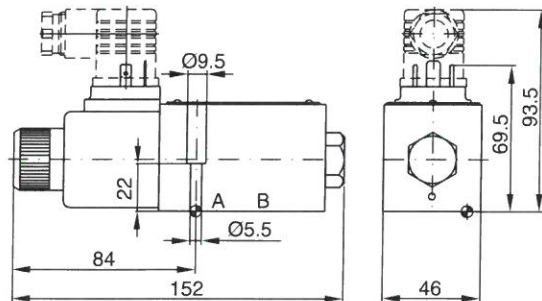
C, D-style



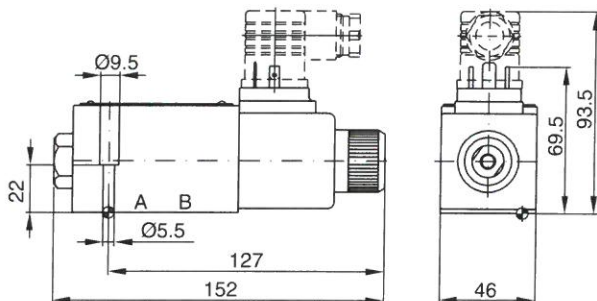
**Option 4N, with lockable manual override
(available for all styles, DC only)**



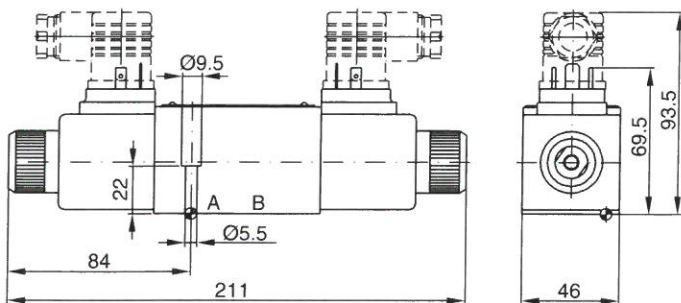
**Interface EN 175301-803, AC solenoid
B, E, F-style**



H, K, M-style



C, D-style



Surface finish	Kit	Kit	Kit	Kit
$\sqrt{R_{max}6.3}$ \downarrow $\square 0.01/100$	BK375	4x M5x30 ISO 4762-12.9	7.6 Nm ±15 %	NBR: SK-D1VW-N-91 FPM: SK-D1VW-V-91

The space necessary to remove the plug per EN 175301-803, design type AF is at least 15 mm.
The torque for the screw M3 of the plug has to be 0.5 to 0.6 Nm.