

**General Description:** The D1VW series directional control valves are high-performance, 4-chamber, direct operated, wet armature, solenoid controlled, 3 or 4-way valves. They are available in 2 or 3-position and conform to NFPA's D03/CETOP 3 mounting patterns.

**DIRECTIONAL CONTROL VALVES**

**SERIES D1VW**



Part No.	Description	Hydraulic Interface	Electrical Interface	Function	Center Condition	Coil Volts	In-rush (Amps)	Holding (Amps)	Max Pressure P, A, B ports (PSI)	Max Pressure T port (PSI)	Max Flow at 3000 PSI (GPM)	Max Flow at 5000 PSI (GPM)
D1VW002CNYCF5	Directional control valve	D03	DIN connector	3 Pos-4 Way	Open	110-120 AC	1.6	0.49	5000	1500	22	22
D1VW001CNYCF5	Directional control valve	D03	DIN connector	3 Pos-4 Way	Closed	110-120 AC	1.6	0.49	5000	1500	22	22
D1VW004CNYCF5	Directional control valve	D03	DIN connector	3 Pos-4 Way	Motor	110-120 AC	1.6	0.49	5000	1500	13	12.5
D1VW009CNYCF5	Directional control valve	D03	DIN connector	3 Pos-4 Way	Tandem	110-120 AC	1.6	0.49	5000	1500	15	15
D1VW002CNKWM	Directional control valve	D03	DIN connector	3 Pos-4 Way	Open	12 VDC	-	2.5	5000	1500	21	19
D1VW001CNKWM	Directional control valve	D03	DIN connector	3 Pos-4 Way	Closed	12 VDC	-	2.5	5000	1500	22	22
D1VW004CNKWM	Directional control valve	D03	DIN connector	3 Pos-4 Way	Motor	12 VDC	-	2.5	5000	1500	10	10
D1VW009CNKWM	Directional control valve	D03	DIN connector	3 Pos-4 Way	Tandem	12 VDC	-	2.5	5000	1500	15	15
D1VW002CNJWM	Directional control valve	D03	DIN connector	3 Pos-4 Way	Open	24 VDC	-	1.2	5000	1500	21	19
D1VW001CNJWM	Directional control valve	D03	DIN connector	3 Pos-4 Way	Closed	24 VDC	-	1.2	5000	1500	22	22
D1VW004CNJWM	Directional control valve	D03	DIN connector	3 Pos-4 Way	Motor	24 VDC	-	1.2	5000	1500	10	10
D1VW009CNJWM	Directional control valve	D03	DIN connector	3 Pos-4 Way	Tandem	24 VDC	-	1.2	5000	1500	15	15

**SERIES D1VW Quick Reference Data**

Model	Spool Symbol	Maximum Flow, L/M (GPM) 350 Bar (5000 PSI) w/o Malfunction	Model	Spool Symbol	Maximum Flow, L/M (GPM) 350 Bar (5000 PSI) w/o Malfunction
D1V*1		83 (22)	D1V*8		45 (12)
D1V*2		83 (22)	D1V*9		57 (15)
D1V*4		45 (12)			

Center or De-energized position is indicated by A, B, P & T port notation.

**DIRECTIONAL CONTROL VALVES**

**HOW TO ORDER**

**Series D1VW Subplates**

**SP**

Subplate

**D2**

Valve Model

**Port Size and Thread Type**

**Port Location**

**Material**

**35**

Design Series  
Required when ordering.

Code	Description
D2*	NFPA D03, NG6, CETOP3

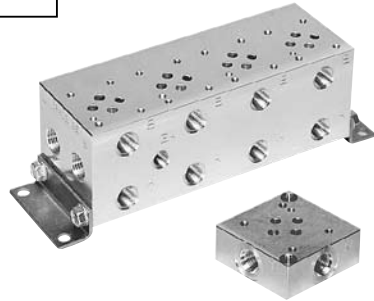
\* Consult factory for D03 subplates requiring pilot ports with D1VP.

Code	Description
2N	.25 – 18 NPTF
3N	.38 – 18 NPTF
3S	-6 SAE
4N	.50 – 14 NPTF
4S	-8 SAE
6N	.75 – 14 NPTF
6S	-12 SAE

Code	Description
Omit	Bottom
A	Side

Code	Description
Omit	Aluminum, 210 Bar (3000 PSI)
S	Ductile Iron, 345 Bar (5000 PSI)

**Note:** 35 Design Series subplates conform to NFPA mounting pattern specifications, but may be dimensionally different from previous design series.



**Mounting Bolt Kits**

**UNC Bolt Kits for use with D1V Directional Control Valves & Manapaks/Cartpaks (D1V\*-75 Design, Solenoid Operated)**

	Number of Manapaks/Cartpaks @ 1.58" (40mm) thickness				
	0	1	2	3	4
D1V-75	BK209 1.25"	BK243 2.88"	BK225 4.38"	BK244 6.00"	BK245 7.50"
D1V-75 Plus Tapping Plate	BK176 2.25"	BK56 3.81"	BK212 5.38"	BK107 7.00"	BK106 8.50"

**Note:** All bolts are SAE grade 8, 10-24 UNC-2A thread, torque to 5.6 N.m. (50 in.-lbs.)

**Mounting Hardware supplied with subplate includes:**

Subplates	Mounting Hardware	Qty.
SPD22N**	.25-20 UNC x .88 LG. SHCS	2
SPD23N**	.25-20 UNC x .88 LG. SHCS	2
SPD23S**	.25-20 UNC x .88 LG. SHCS	2
SPD24N**	.25-20 UNC x 1.5 LG. SHCS	2
SPD24S**	.25-20 UNC x 1.5 LG. SHCS	2
SPD26N*	.38-16 UNC x 1.50 LG. SHCS	2
SPD26S*	.38-16 UNC x 1.50 LG. SHCS	2
SPD26NA*	.38-16 UNC x 1.75 LG. SHCS	2
SPD26SA*	.38-16 UNC x 1.75 LG. SHCS	2

**Series D1VW Subplates and Accessories**

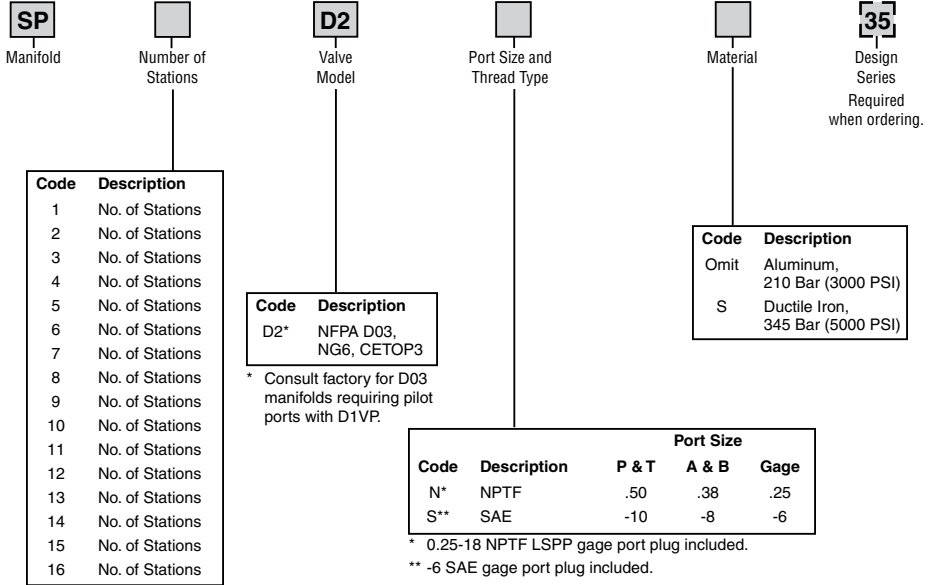
Part No.	Description	Hydraulic Interface
SPD24SS35	SUBPLATE - bottom ports - 3/4"-16 SAE	D03
SPD22NS35	SUBPLATE - bottom ports - 1/4" NPT	D03
SPD24SAS35	SUBPLATE - side ports - 3/4"-16 SAE	D03
692914	DIN PLUG - Black	
692915	DIN PLUG - Grey	
BK209	Bolt Kit for CETOP-3 Valves	

Valve mounting threads:  
#10-24 UNC x 0.63 DP.  
Used for SAE and NPTF ports.  
Metric M5-0.8mm ISO 6H x 16 DP.  
Used for BSPP, BSPT and ISO ports.

**DIRECTIONAL CONTROL VALVES**

**HOW TO ORDER**

**Series D1VW Manifolds**



**Note:** 35 Design Series manifolds conform to NFPA mounting pattern specifications, but may be dimensionally different from previous design series.

**Mounting Bolt Kits**

UNC Bolt Kits for use with D1V Directional Control Valves & Manapaks/Cartpaks (D1V*-75 Design, Solenoid Operated)					
	Number of Manapaks/Cartpaks @ 1.58" (40mm) thickness				
	0	1	2	3	4
D1V-75	BK209 1.25"	BK243 2.88"	BK225 4.38"	BK244 6.00"	BK245 7.50"
D1V-75 Plus Tapping Plate	BK176 2.25"	BK56 3.81"	BK212 5.38"	BK107 7.00"	BK106 8.50"

Mounting hardware supplied with manifold includes:  
(2) steel brackets  
For SAE and NPTF ports: (8) 5/16-18 UNC x .63 hex washer cap screws.  
Valve mounting threads:  
#10-24 UNC x 0.63 DP. Used for SAE and NPTF ports.

**Note:** All bolts are SAE grade 8, 10-24 UNC-2A thread, torque to 5.6 N.m. (50 in.-lbs.)

No. Stations	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
Wgt., Alum, kg (lbs.)	1.4 (3)	1.8 (4)	2.7 (6)	3.6 (8)	4.1 (9)	5.0 (11)	5.4 (12)	6.4 (14)	7.3 (16)	8.2 (18)	9.1 (20)	9.6 (21)	10.1 (22)	11.0 (24)	11.9 (26)	12.3 (27)
Wgt., Iron, kg (lbs.)	2.3 (5)	4.1 (9)	5.9 (13)	7.7 (17)	9.5 (21)	11.8 (26)	13.6 (30)	15.4 (34)	17.4 (38)	19.2 (42)	21.5 (47)	23.3 (51)	25.1 (55)	27.0 (59)	28.8 (63)	31.1 (68)