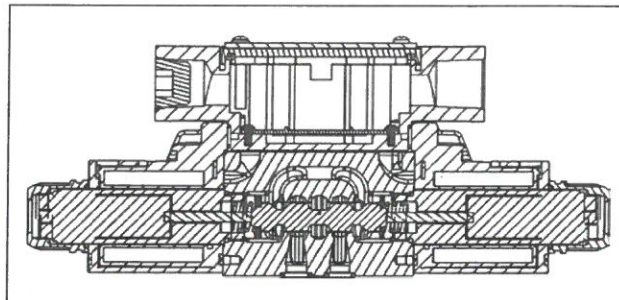
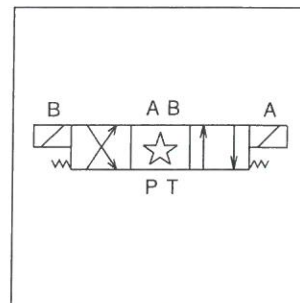
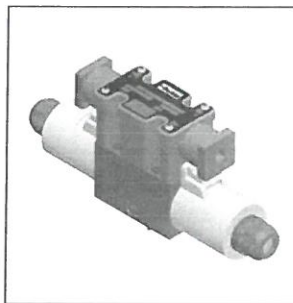


**General Description**

Series D1VW 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.

**Features**

- Soft shift available.
- 19 standard spool styles available (for other spools – Consult Factory).
- Proportional spools.
- DC surge suppression.
- Eight electrical connection options.
- AC & DC lights available (CSA approval for solenoids and lights).
- Internally ground.
- Easy access mounting bolts.
- Waterproof (meets NEMA 4, up to IP67 on some models).
- Explosion proof.
- CSA approvals.



- U.L. recognized available - Contact the division.
- No tools required for coil removal.
- AC rectified coils.

**Specifications**

<b>Mounting Pattern</b>	NFPA D03, CETOP 3, NG 6	<b>Leakage Rates*</b> <b>100 SSU @</b> <b>49°C (120°F)</b>	Maximum Allowable: 19.7 cc (1.2 Cu. in.) per Minute/Land @ 69 Bar (1000 PSI)* 73.8 cc (4.5 Cu. in.) per Minute/Land @ 207 Bar (3000 PSI)*  Typical: 4.9 cc (0.3 Cu. in.) per Minute/Land @ 69 Bar (1000 PSI)* 26.2 cc (1.6 Cu. in.) per Minute/Land @ 345 Bar (5000 PSI)
<b>Mounting Interface</b>	DIN 24340-A6 ISO 4401-AB-03-4-A CETOP R35H 4.2-4-03, NFPA D03		
<b>Maximum Pressure</b>	P, A, B 345 Bar (5000 PSI) Standard 207 Bar (3000 PSI) 10 Watt CSA  276 Bar (3750 PSI) Tank: 103 Bar (1500 PSI) AC only 207 Bar (3000 PSI) DC/AC Rectified Standard 207 Bar (3000 PSI) AC Optional CSA  103 Bar (1500 PSI)		

\*#008 and #009 Spools may exceed these rates. Consult Factory

**Response Time**

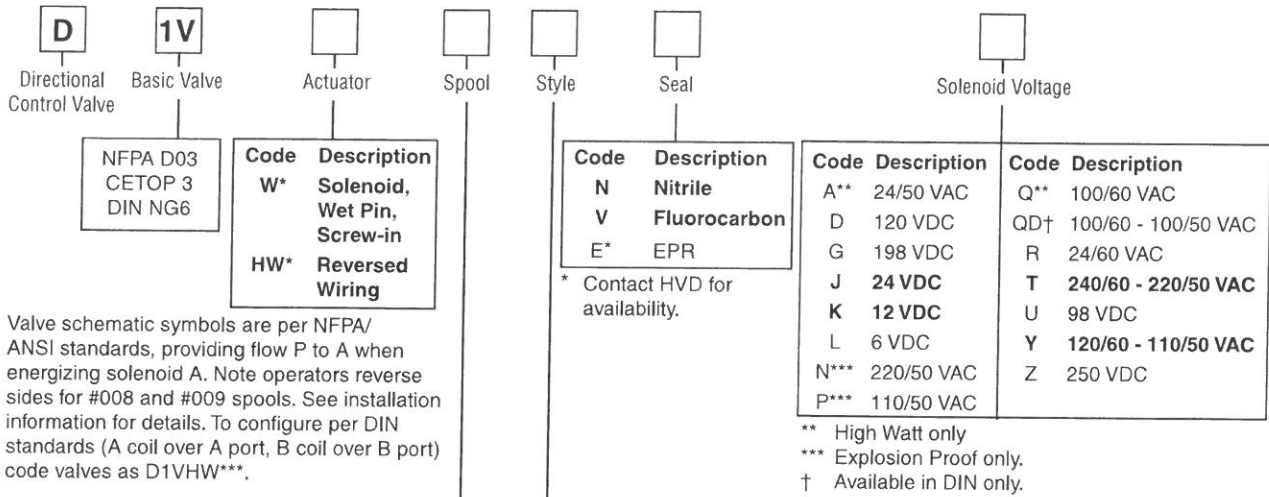
Response time (milliseconds) at 345 Bar (5000 PSI) is 32 LPM (8.5 GPM).

Solenoid Type	Pull-In	Drop-Out
AC	13	20
DC 10 Watt	61	22
DC 30 Watt	51	21

Soft Shift	Orifice Size	Spool Center Condition					
		Closed		Open		2-Position	
		Energize	De-Energize	Energize	De-Energize	Energize	De-Energize
S2	0.020	125 ms	920 ms	200 ms	275 ms	51 ms	100 ms
S5	0.050	51 ms	675 ms	50 ms	27 ms	51 ms	21 ms



**A**



\* Valve schematic symbols are per NFPA/ANSI standards, providing flow P to A when energizing solenoid A. Note operators reverse sides for #008 and #009 spools. See installation information for details. To configure per DIN standards (A coil over A port, B coil over B port) code valves as D1VHW\*\*\*.

Code	Symbol	Code	Symbol
001		011	
002		014	
003		015	
004		016	
005		020*	
006		026*	
007		030**	
008*, 009**		081	
010		082	

\* 008, 020 & 026 spools have closed crossover.  
 \*\* 009 & 030 spools have open crossover.

Code	Description	Symbol
<b>B*</b>	<b>Single solenoid, 2 position, spring offset. P to A and B to T in offset position.</b>	
<b>C</b>	<b>Double solenoid, 3 position, spring centered.</b>	
<b>D†</b>	<b>Double solenoid, 2 position, detent.</b>	
<b>E</b>	Single solenoid, 2 position, spring centered. P to B and A to T when energized.	
<b>F‡</b>	Single solenoid, 2 position. Spring offset, energized to center. Position spool spacer on A side. P to A and B to T in spring offset position.	
<b>H*</b>	<b>Single solenoid, 2 position, spring offset. P to B and A to T in offset position.</b>	
<b>K</b>	Single solenoid, 2 position, spring centered. P to A and B to T when energized.	
<b>M‡</b>	Single solenoid, 2 position, spring offset, energized to center position. Spool spacer on B side. P to B and A to T in spring offset position.	

\* 020, 026 and 030 spools only.  
 † 020 and 030 spools only.  
 ‡ High Watt only.

**Bold: Designates Tier I products and options.**

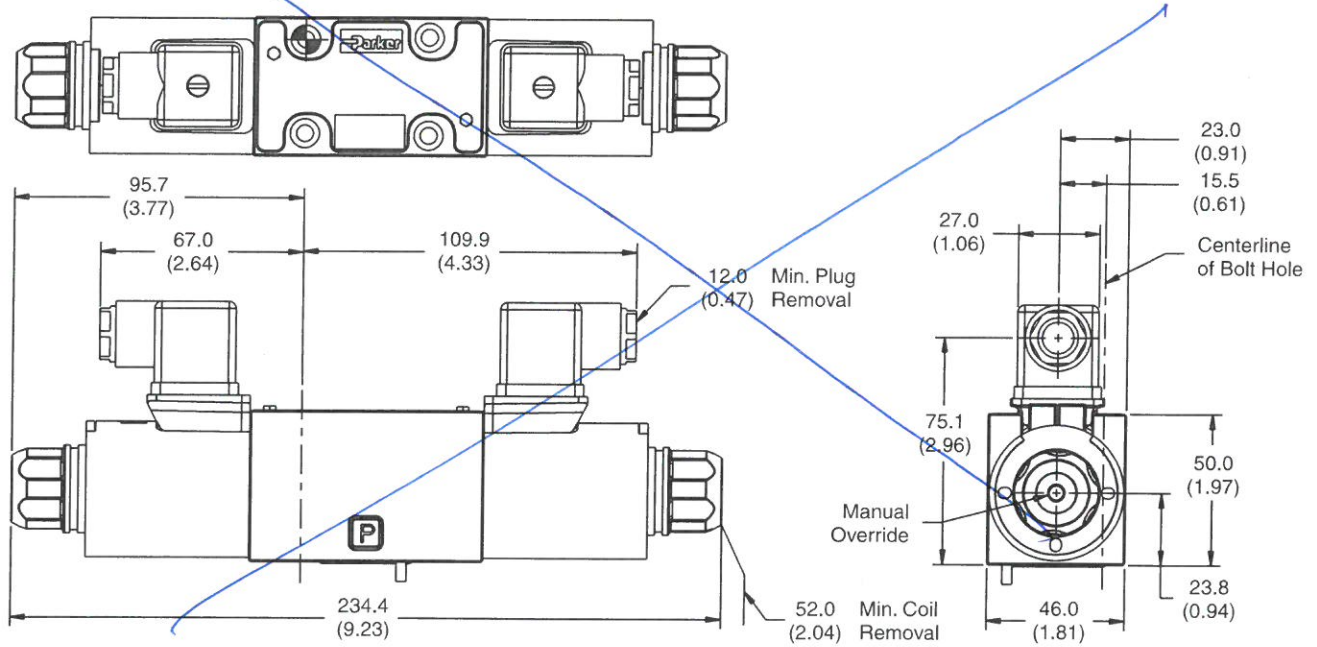
**Non-Bold: Designates Tier II products and options. These products will have longer lead times.**

Dimensions

Inch equivalents for millimeter dimensions are shown in (\*\*)

DC DIN with Plug Connector, Double Solenoid  
"P" Option Shown

**A**

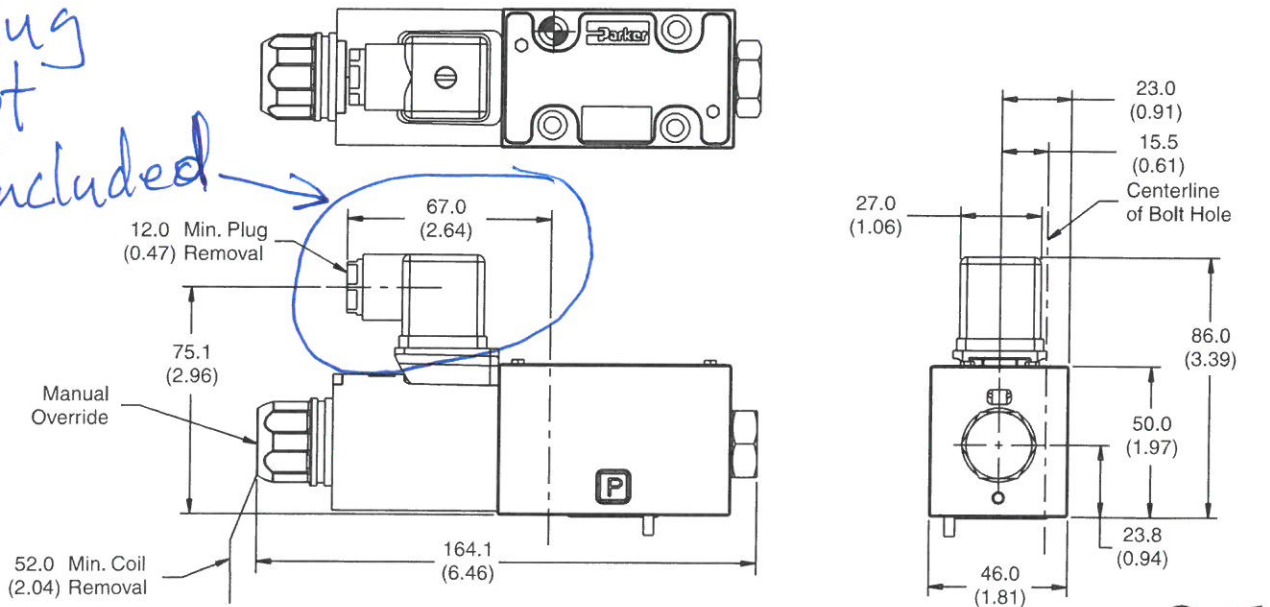


Note: 22.0 mm (0.87") from bottom of bolt hole counterbore to bottom of valve.

DC DIN Connector, Single Solenoid  
"P" Option Shown

*Weight = 3.5 Pounds*

*Plug Not Included*



Note: 22.0 mm (0.87") from bottom of bolt hole counterbore to bottom of valve.