General Description

Series D6P directional control valves are 5-chamber, pilot operated valves. They are available in 2 or 3-position styles. These valves are manifold or subplate mounted, and conform to NFPA's D08, CETOP 8 mounting patterns.

Features

- Low pressure drop design.
- Hardened spools provide long life.
- Fast response option available.

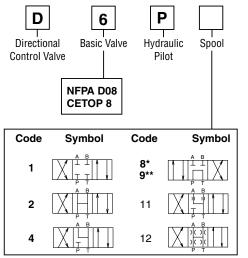
Specifications

Mounting PatternNFPA D08, CETOP 8, NG25Max. Operating Press.207 Bar (3000 PSI)Max. Tank Line Press.207 Bar (3000 PSI)Max. Drain Pressure207 Bar (3000 PSI)Min. Pilot Pressure5.1 Bar* (75 PSI)Max. Pilot Pressure207 Bar (3000 PSI)Nominal Flow189 Liters/Min (50 GPM)Maximum FlowSee Reference Chart	-		
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	Max. Pilot Pressure	207 Bar (3000 PSI)	
Maximum Flow See Reference Chart	Nominal Flow	189 Liters/Min (50 GPM)	
	Maximum Flow	See Reference Chart	

* 6.9 Bar (100 PSI) for 2, 8, 9 & 12 spools

For flow path, pilot drain and pilot pressure details, see Installation Information.

Ordering Information

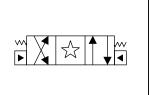


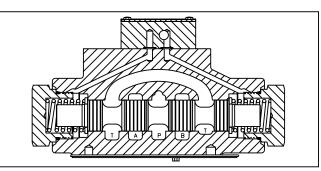
* 8 spool has closed crossover.
** 9 spool has open crossover.

Valve schematic symbols are per NFPA/ANSI standards, providing flow P to A when energizing operator X. Note operators reverse sides for #8 and #9 spools. See installation information for details.

Valve Weight: 11.0 kg (24.2 lbs.) Standard Bolt Kit: BK227 Metric Bolt Kit: BKM227





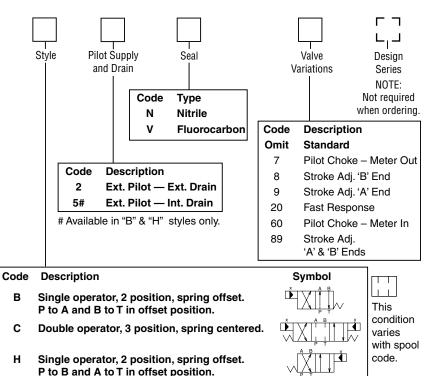


Response Time

Response time will vary with pilot line size, pilot line length, pilot pressure shift time and flow capacity of the control valve.

Shift Volume

The pilot chamber requires a volune of 0.54 in^3 for center to end and 1.08 in^3 for end to end.



Bold: Designates Tier I products and options.

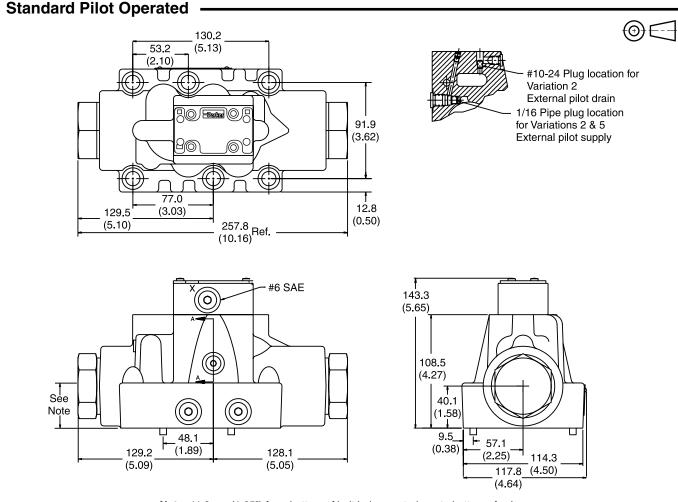
Non-Bold: Designates Tier II products and options. These products will have longer lead times.



Return to ALPHA TOC Return to SECTION TOC

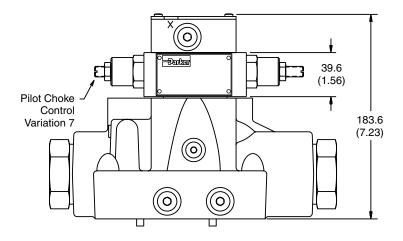
Return to ALPHA TOC Return to SECTION TOC

Inch equivalents for millimeter dimensions are shown in $(\ensuremath{^{\star\star}})$



Note: 41.9mm (1.65") from bottom of bolt hole counterbore to bottom of valve.

Pilot Operated with Pilot Choke Control



Note: 41.9mm (1.65") from bottom of bolt hole counterbore to bottom of valve.

D61.indd, dd



FOR MAXIMUM VALVE RELIABILITY, ADHERE TO THE FOLLOWING INSTALLATION INFORMATION.

The following is important installation information which applies to all directional control valves described in this catalog.

Mounting Position

Detent – Horizontal Spring Offset – Unrestricted Spring Centered – Unrestricted

Fluid Recommendations

Premium quality hydraulic oil with a viscosity range between 32-54 cSt. (150-250 SSU) At 38°C (100°F) is recommended. The absolute operating viscosity range is from 16-220 cSt. (80-1000 SSU). Oil should have maximum anti-wear properties and rust and oxidation treatment.

Fluids and Seals

Valves using synthetic, fire-resistant fluids require special seals. When phosphate esters or its blends are used, FLUOROCARBON seals are required. Waterglycol, water-in-oil emulsions and petroleum oil may be used with STANDARD seals.

Filtration

For maximum valve and system component life, the system should be protected from contamination at a level not to exceed 125 particles greater than 10 microns per milliliter of fluid (SAE class 4/ISO 16/13).

Silting

Silting can cause any sliding spool valve to stick and not spring return if held under pressure for long periods of time. The valve should be cycled periodically to prevent sticking.

Special Installations

Consult your Parker representative for any application requiring the following:

- Pressure above rating.
- Fluid other than those specified.
- Oil temperature above 71.1°C (160°F).
- Flow path other than normal.

Mounting Patterns

Series	NFPA	Size
D61V*, D6P	D08, CETOP 8	3/4"

Torque Specifications

The recommended torque values for the bolts which mount the valve to the manifold or subplate are as follows: 135.6 Nm (100 ft-lbs).

D61.indd, dd

