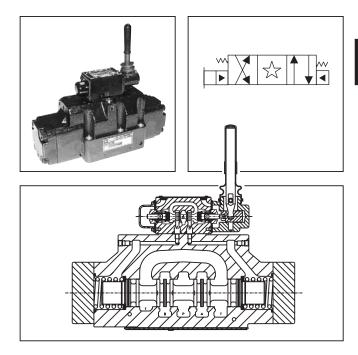
Parker D81VL Series Lever Operated Directional Control Valve **Service Manual**

General Description

Series D81VL directional control valves are 5-chamber, lever operated valves. They are available in 2 or 3position styles. These valves are manifold or subplate mounted, and conform to NFPA's D08, CETOP 8 mount - ing pattern.

Specifications

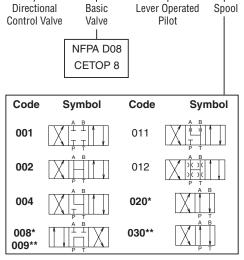
Mounting Pattern	NFPA D08, CETOP 8, NG25
Max. Operating	350 Bar (5000 PSI)
Pressure	
Max. Tank Line	Internal Drain Model
Pressure	34 Bar (500 PSI)
	External Drain Model
	350 Bar (5000 PSI)
Maximum Drain	34 Bar (500 PSI)
Pressure	
Maximum Flow	See Reference Data Charts
Pilot	Oil Min 6.9 Bar (100 PSI)
Pressure	Oil Max 350 Bar (5000 PSI)
Response Time	Varies with pilot line size and length,
	pilot pressure, pilot valve shift time &
	flow capacity (GPM)



Ordering Information

81V

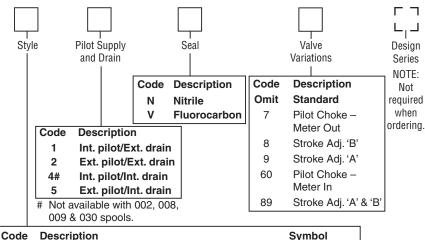
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- 008 & 020 spools have closed crossover.
- ** 009 & 030 spools have open crossover.

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

Valve Weight: 19.6 kg (43.2 lbs.) Standard Bolt Kit: BK228 **Metric Bolt Kit: BKM228**



Description

- Sgl. operator, 2 position, spring offset. P to A and B to T in offset position.
- С Dbl. operator, 3 position, spring centered.
- Dbl. operator, 2 position, detent. D_†
- Е Sgl. operator, 2 position, spring centered. P to B and A to T in shifted position.
- Sgl. operator, 2 position, spring offset. P to B and A to T in offset position.
 - Sgl. operator, 2 position. Spring centered. P to A and B to T in shifted position.



This condition varies with spool code.

† Available with 020 & 030 spools only.

Bold: Designates Tier I products and options.

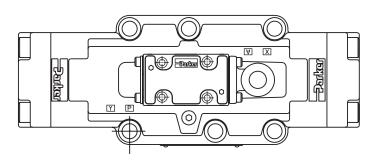
Non-Bold: Designates Tier II products and options. These products will have longer lead times. D81.indd, dd

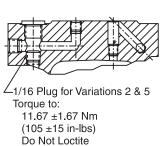


Inch equivalents for millimeter dimensions are shown in (**)

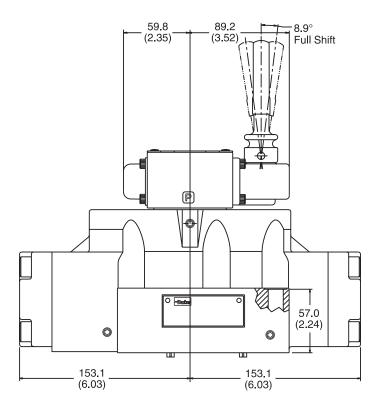
Lever Operated -

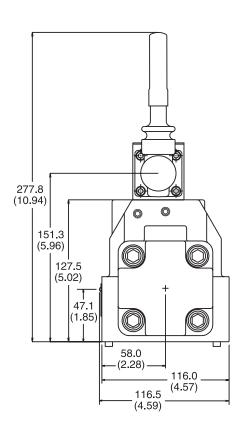






M6 x 1 Plug for Variations 1 & 2 Torque to: 1.78 ±0.22 Nm (16 ±2 in-lbs) Do Not Loctite







Note: 57mm (2.24") from bottom of bolt hole counterbore to bottom of valve.

