Technical Information



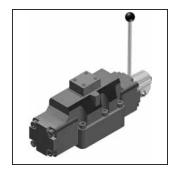
General Description

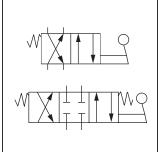
Series D4L valves are 5 chamber, directional control valves and are available in 2 or 3-position styles. They are operated by a hand lever which is directly connected to the spool.

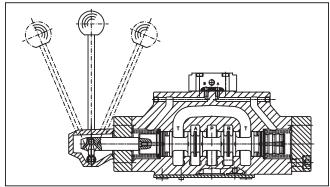
The hand lever can be located either on the A or B side. Spring offset and detent designs are available.

Features

- Low force required to shift spool.
- Hardened spools provide long life.
- Low pressure drop design.







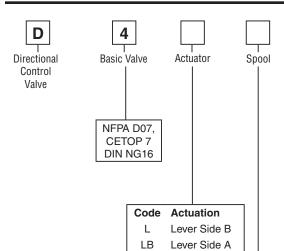
Specifications

opcomoduono			
General			
Design	Directional spool valve		
Actuation	Lever		
Size	NG16		
Mounting interface	DIN 24340 A16, ISO 4401, NFPA D07, CETOP RP 121-H		
Mounting Position	Unrestricted, preferably horizontal		
Ambient Temperature [°C]	-25+50; (-13°F+122°F)		
Hydraulic			
Maximum Operating Pressure	External Drain: P, A B, T 350 Bar (5075 PSI); X, Y 10 Bar (145 PSI)		
	Internal Drain: P, A B 350 Bar (5075 PSI); T, X, Y 10 Bar (145 PSI)		
Fluid	Hydraulic oil in accordance with DIN 51524 / 51525		
Fluid Temperature [°C]	-25 +70; (-13°F+158°F)		
	2.8400 (131854 SSU) 3080 (139371 SSU)		
Filtration	ISO 4406 (1999); 18/16/13 (meet NAS 1638: 7)		
Maximum Flow	300 LPM (79.4 GPM)		
Leakage at 350 Bar (per flow path) [ml/min]	up to 200 (0.05 GPM) (depending on spool)		



** Pressure T-port < 10 bar

Ordering Information



3 Position Spools						
Code	Code Spool Type					
	a 0 k)				
1		Ţ				
2	XHHHI	V				
3		Ţ				
4		Ţ				
6		Ţ				
7		Ţ				
9						
11		Ţ				
14		Ţ				
15		Ţ				

2 Position Spools

Spool Type

Code

20 30

Weight: 9.0 kg (19.8 lbs.)

Further spool types on request.

—Parker

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Sty	rle	Pilot Supply and Drain		Sea	al	Design Series NOTE: Not required when ordering.
			Code	Desci	ription	
			N	Nitrile		
			V	Fluoro	ocarbon	
	Code	Description]		
	2*	External Pilot	External	Drain		
	5**	External Pilot	Internal [Orain		
	* Pressu	ure T-port > 10 bar			_	

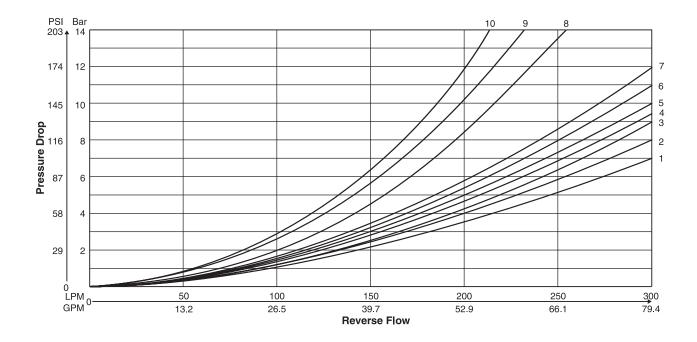
3 Position Spools							
Code	All 3 Position Spools						
С	A B W P T		3 positions. Spring offset in position "0". Operated in position "a" or "b".				
	Standard	Spool Type 9					
E	A B A O N P T T Operated in position "a".	A B O B P T T Operated in position "b".	2 positions. Spring offset in position "0".				
F	P'T Operated in position "0".	A B a 0 P T T Operated in position "0".	2 positions. Spring offset in position "b".				
К	A ₁ B W 0 b P' T Operated in position "b".	Operated in position "a".	2 positions. Spring offset in position "0".				
М	A B a 0 P T Operated in position "0".	Operated in position "0".	2 positions. Spring offset in position "a".				
N	No center in offset position.	a 0 b WV No center in offset position.	3 positions, detent. Operated in position "a", "0" or "b".				
R	No center in offset position.	No center in offset position.	2 positions, detent. Operated in position "0" or "b".				
S	No center in offset position.	No center in offset position.	2 positions, detent. Operated in position "0" or "a". No center in offset position.				

2 Position Spools					
Code	de Spool Position				
В	A ₁ B ₁ B ₂ A ₃ b ₄ A ₄ A ₅	Spring offset in position "b". Operated in position "a".			
D	o a b ₩	Detent, operated in position "a" or "b". No center or offset position.			
Н	A ₁ 1B Wa b P ¹ T	Spring offset in position "a". Operated in position "b".			

Parker Hannifin Corporation Hydraulic Valve Division Elyria, Ohio, USA The flow curve diagram shows the flow versus pressure drop curves for all spool types. The relevant curve number for each spool type, operating position and flow direction is given in the table below.

Spool	Curve Number						
Code	P-A	P-B	P-T	A-T	В-Т		
1	1	1	_	4	5		
2	1	2	6	4	6		
3	1	2	-	5	6		
4	1	1	-	5	5		
6	1	2	-	3	6		
7	1	1	6	4	5		
9	2	9	8	7	10		
11	1	1	_	4	5		
14	1	1	6	5	4		
15	2	1	_	6	5		
20	3	5	_	3	5		
30	2	3	_	6	7		

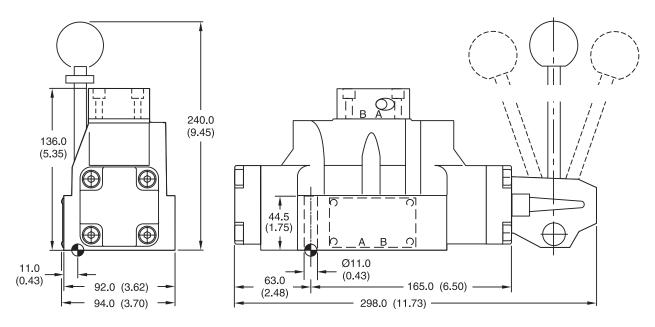
All characteristic curves measured with HLP46 at 50°C.



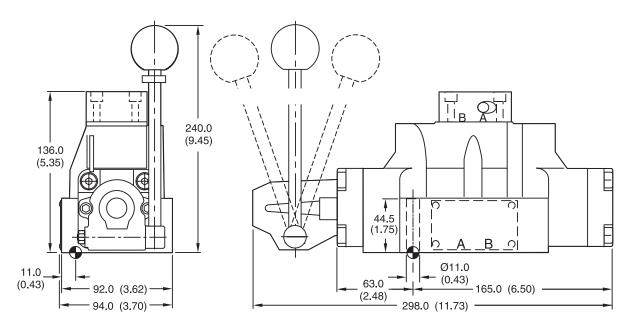
A

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

D4L



D4LB





Surface Finish	Kit	野哥	2	Seal O Kit
√R _{max} 6.3 √ □0.01/100	BK320	4x M10x60 2x M6x55 DIN 912 12.9	63 Nm (46.5 lbft.) 13.2 Nm (9.7 lbft.) ±15%	Nitrile: SK-D4LN60 Fluorocarbon: SK-D4LV60

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