## **Characteristics**

Hydraulically operated directional control valves are available in 5 sizes:

D1VP\*4L NG06 – operated via end caps

D1VP\*90 NG06 – operated via end caps and mounting

interface (X, Y)

D3DP NG10 – operated via mounting interface (X, Y)
D4P NG16 – operated via mounting interface (X, Y)
D9P NG25 – operated via mounting interface (X, Y)
D11P NG32 – operated via mounting interface (X, Y)
Size NG06 (D1VP) is available in two different designs:

- D1VP\*4L for operating pressure >10 bar (over tank pressure) with control ports in the end caps.
- D1VP\*90 for operating pressure >15 bar with control ports in the end caps and mounting interface (X, Y).

All other series are operated only via mounting interface (X, Y).

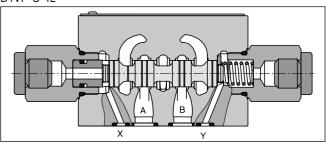
The shifting time is depending on the pilot pressure. For safe operation the minimum pilot pressure has to be ensured in all operating conditions. The maximum pilot pressure varies from the maximum operating pressure in some sizes.





D1VP\*B\*4L D1VP\*90

D1VP\*C\*4L



D1VP\*90

## **Technical data**

General							
Design	Directional sp	Directional spool valve					
Actuation	Hydraulic						
Series	D1VP*4L	D1VP*90	D3DP	D4P	D9P	D11P	
Size	NG06	NG06	NG10	NG16	NG25	NG32	
Weight [H	g] 1.3	1.3	3.7	9.0	17.0	66.0	
Mounting interface	DIN 24340 A06	DIN 24340 A06	DIN 24340 A10	DIN 24340 A16	DIN 24340 A25	DIN 24340 A32	
	ISO 4401	ISO 4401	ISO 4401	ISO 4401	ISO 4401	ISO 4401	
	NFPA D03	NFPA D03	NFPA D05	NFPA D07	NFPA D08	NFPA D10	
		CETOP RP 121-H					
Mounting position		unrestricted, preferably horizontal					
Ambient temperature [°	C]   -25+60	-25+60					
MTTF <sub>p</sub> value [yea	s]   150						
Hydraulic							
Max. operating pressure [b.	r] P, A B: 350; T: 140	P, A B; T: 350; X. Y: 210	P, A B, T: 350; X, Y: 210	P, A B, T: 350; X, Y: 350	P, A B, T: 350; X, Y: 350	P, A B, T: 350; X, Y: 350	
Fluid		ccording to DIN		Λ, 1. 330	Λ, 1. 330	Λ, 1. 550	
Fluid temperature [°		-20 +70 (NBR: -25+70)					
	s] 2.8400						
Viscosity recommended [cSt] / [mm²	s]   3080						
Filtration		ISO 4406 (1999); 18/16/13					
Flow max. [I/m	n] 60 <sup>1)</sup>	60 <sup>1)</sup>	130	300	700	2000	
Leakage at 350 bar (per flow path) [ml/m	n] up to 60 <sup>2)</sup>	up to 60 2)	up to 100 2)	up to 200 2)	up to 800 2)	up to 5000 2)	
Operating pressure (min/max) [b.	ır] 10 <sup>3</sup> /210	15 / 210	15 / 210	5 / 350	5 / 350	5 / 350	
Pilot volume (start position to end position) [cr	<sup>3</sup> ] 0.59	0.34	1.1	4.2	12.3	59.7	
Static / Dynamic							
Step response	The response	The response times depend on the pilot oil pressure and on the speed of the increase /					
	decrease of the pilot pressure.						

<sup>1)</sup> Depending on spool, see shift limits.

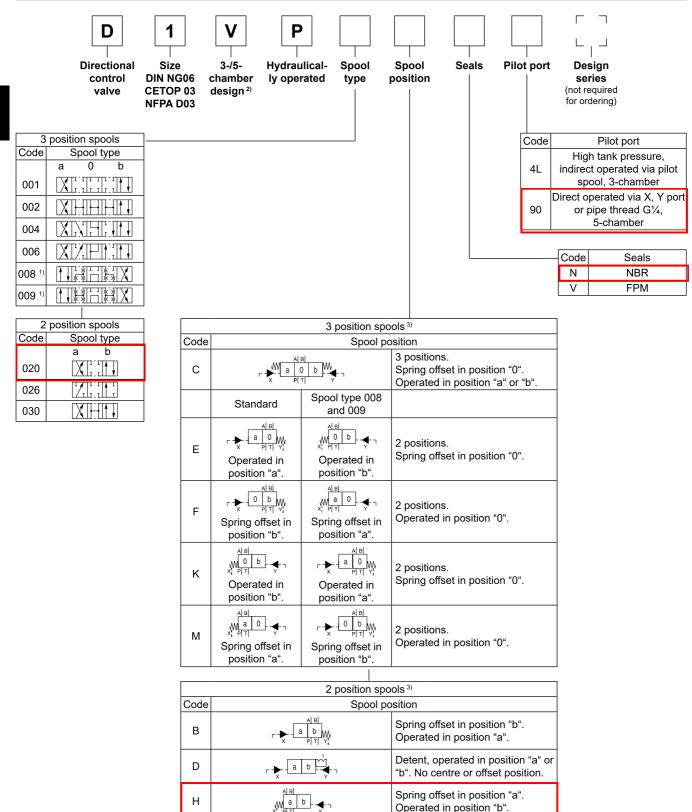




<sup>&</sup>lt;sup>2)</sup> Depending on spool.

<sup>3) &</sup>gt; tank pressure.

## **Ordering Code**



<sup>1)</sup> Consider specific spool position.

Further spool types and styles on request.



D\_P UK.indd 27.07.22

<sup>2)</sup> Depending on pilot port

<sup>&</sup>lt;sup>3)</sup> Code 4L without ports X and Y.