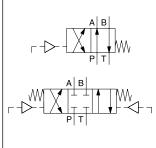
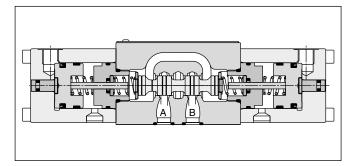
Pneumatically controlled directional control valves of series D1VA are based on the standard D1VW design.

The main spool is operated via an auxiliary spool of larger diameter. Thus enables low operating pressures from 3 to 5 bar.

Pneumatic connection via thread G1/8 in the end caps.







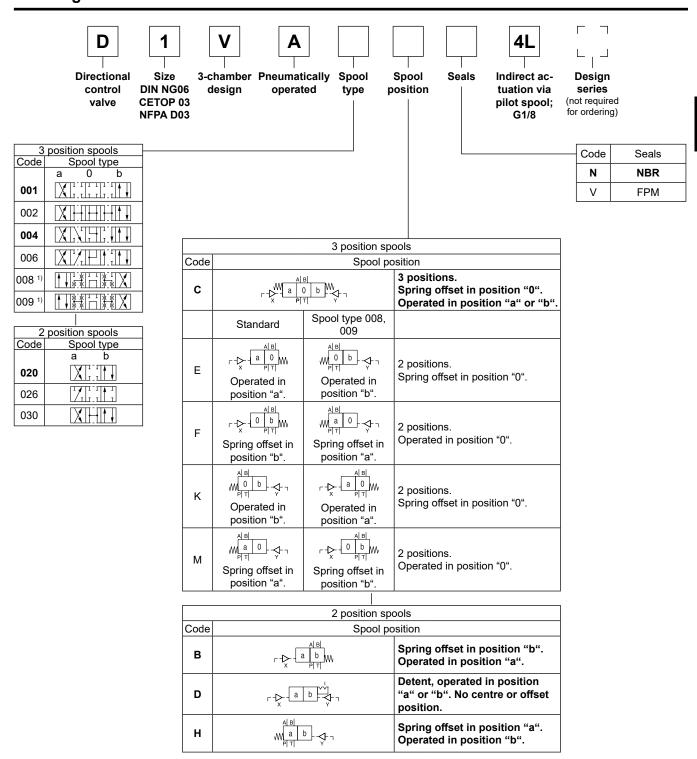
Technical data

General					
Design			Directional spool valve		
			•		
Actuation			Pneumatic		
Size			DIN NG06 / CETOP 03 / NFPA D03		
Mounting interface			DIN 24340 A06, ISO 4401, NFPA D03, CETOP RP 121-H		
Mounting position			unrestricted, preferably horizontal		
Ambient temperature		[°C]	-25+60		
MTTF _D value		[years]	150		
Weight		[kg]	1.3		
Hydraulic					
Max. operating pressure		[bar]	P, A B: 350; T: 105		
Fluid			Hydraulic oil according to DIN 51524		
Fluid temperature		[°C]	-20 +70 (NBR: -25+70)		
Viscosity permitted	[cSt] / [mm²/s]		2.8400		
Viscosity recommended	[cSt] /	[mm²/s]	3080		
Filtration			ISO 4406 (1999); 18/16/13		
Flow max.		[l/min]	60 ¹⁾		
Leakage at 350 bar (per flow path) [ml/min]		[ml/min]	up to 60 ¹⁾		
Operating pressure w/o tank pressure [bar]			min. 3		
		[bar]	min. 5		
Static / Dynamic					
Step response			The response times depend on the pilot oil pressure and on the speed of the increase / decrease of the pilot pressure.		
Recommended values are (a depending on pilot pressure a		[ms]	13/28		

¹⁾ Depending on spool.



Ordering Code



Bold letters = Short-term availability

Further spool types and styles on request.



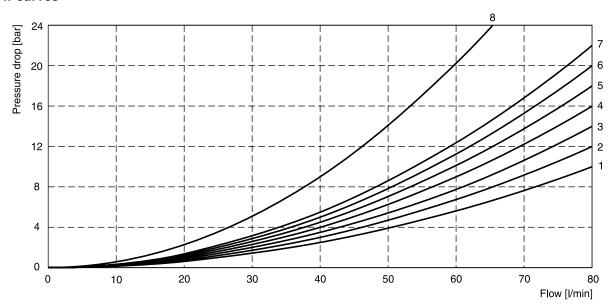
¹⁾ Consider specific spool position.

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.

	Positi	on "b"	Positi	on "a"	Position "0"				
Spool	P->A	B->T	P->B	A->T	P->A	P->B	A->T	B->T	P->T
001	2	2	2	2	_	_	_	_	_
002	1	4	1	4	1	1	5	5	2
004	2	3	2	3	_	_	7	7	_
006	1	4	1	4	7	7	_	_	_
020	4	4	2	3	_	_	_	_	_
026	4	_	4	_	-	-	_	-	-
030	2	3	1	2	_	_	_	_	_
	P->B	A->T	P->A	B->T	P->A	P->B	A->T	B->T	P->T
800	4	5	4	5	-	_	_	_	8
009	5	5	6	7	_	_	_	_	7

Flow curves



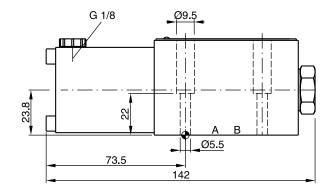
All characteristic curves measured with HLP46 at 50 °C.

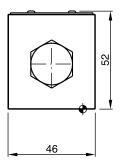
Shift limits

Spool	Shift limit [l/min]
001	
002	
004	60
006	00
020	
030	
800	40
009	40
026	20

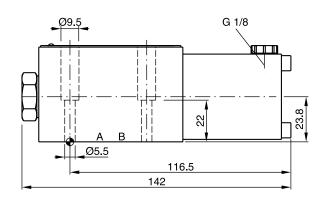


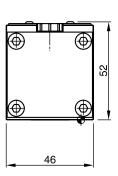
B, E, F -style



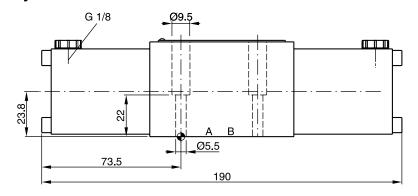


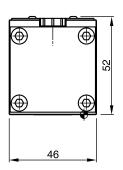
H, K, M -style





C, D -style







Surface finish	Film Kit	即引	5	◯ Kit
√R _{max} 6.3	BK375	4x M5x30 ISO 4762-12.9	7.6 Nm ±15 %	NBR: SK-D1VA-N-91 FPM: SK-D1VA-V-91

