

**Characteristics**

Hydraulically pilot operated check valves C4V allow free flow from A to B. The counter-flow direction is blocked.

When pressure is applied to control port X, the ring chamber flow from B to A is released.

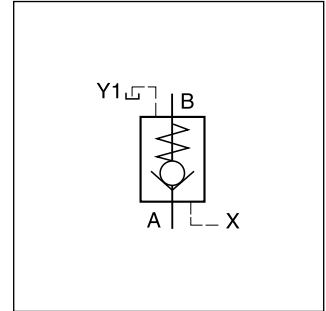
Up to four different pilot control ratios are available (see ordering code).

**Function**

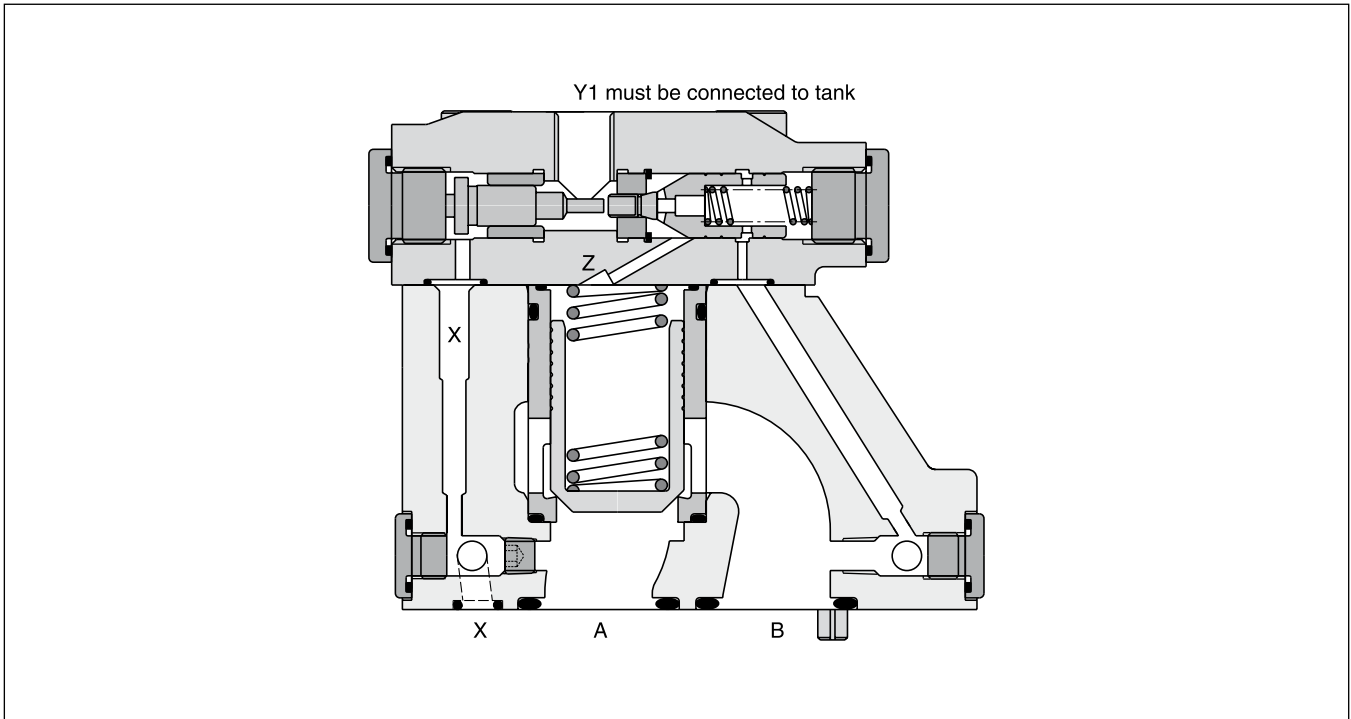
When no pressure is applied to the X-port, the flow from B to A is blocked, because the pressure in B is also in effect on top of the poppet.

Pressurizing the X port relieves the area on top of the poppet to the drain port and allows flow from B to A.

The seat design of the SVL valve series provides leak-free separation of port A and B in the closed position.

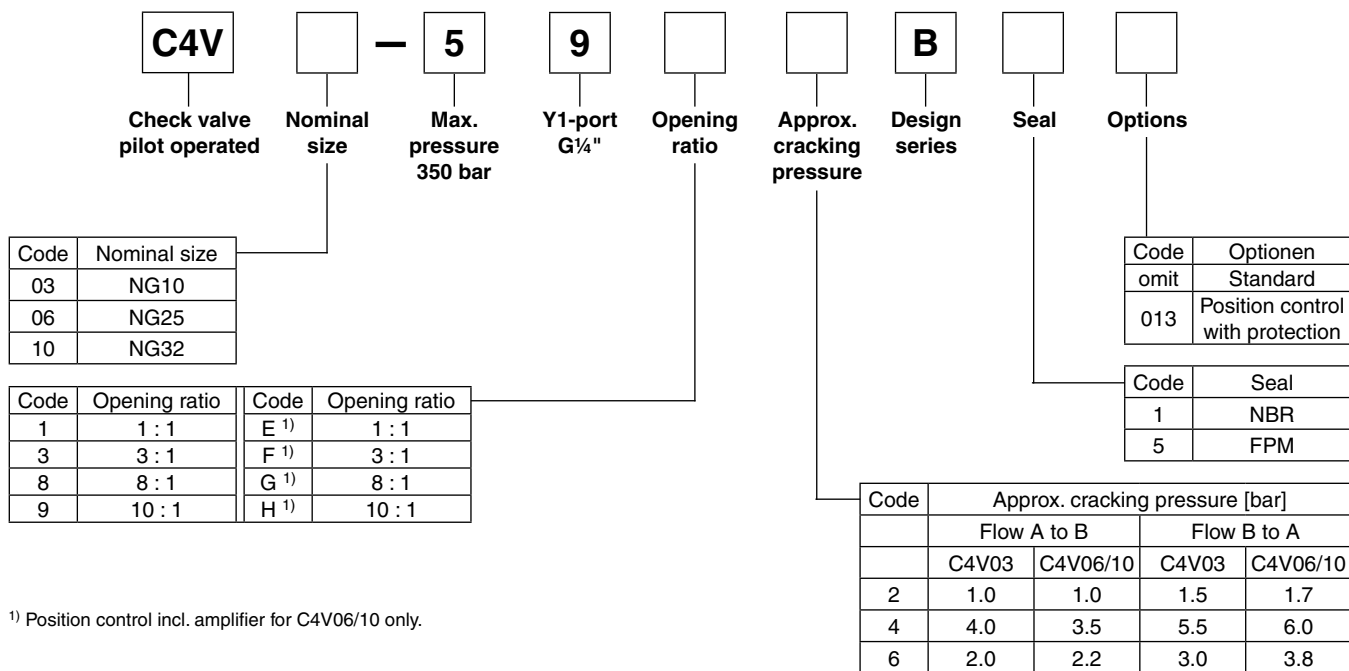


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Ordering Code / Technical Data

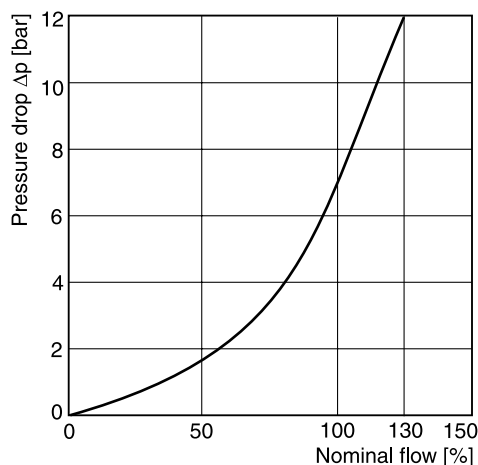
Ordering code



Technical data

General		NG10	NG25	NG32
Nominal size				
Subplate mounting		ISO 5781		
Mounting position		Unrestricted		
Ambient temperature	[°C]	-20...+60		
MTTF <sub>D</sub> value	[years]	150		
Weight	[kg]	2.8	4.6	6.1
Hydraulic				
Max. operating pressure	[bar]	350		
Nominal flow	[l/min]	150	270	450
Fluid		Hydraulic oil according to DIN 51524		
Fluid temperature	[°C]	-20...+70 (NBR: -25...+70)		
Viscosity, permitted	[cSt] / [mm²/s]	20...400		
Viscosity, recommended	[cSt] / [mm²/s]	30...80		
Filtration		ISO 4406 (1999); 18/16/13		

Δp/Q flow curve



**Position control**

Position control by proximity switch with amplifier. The closed position is monitored.

Valve open: proximity switch activated.

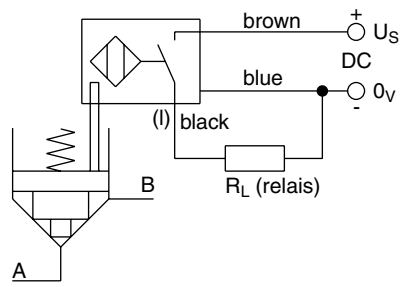
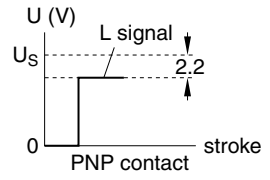
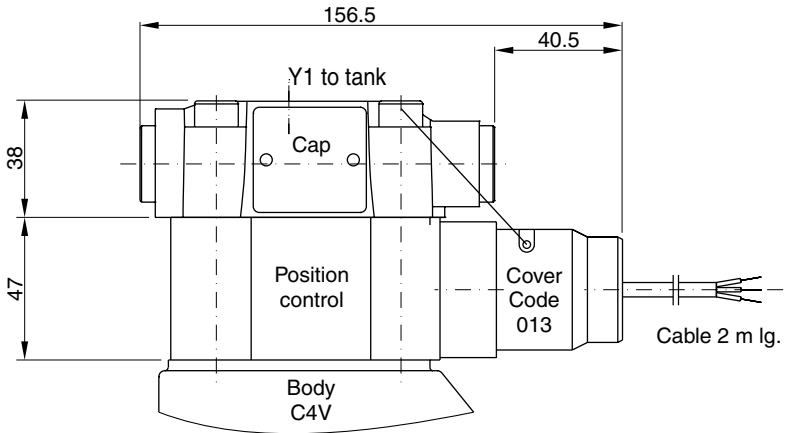
This proximity switch is pressure proof and has no wear-ing parts.

Note: Position control for C4V06 and C4V10 only.

**Technical data proximity switch**

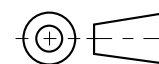
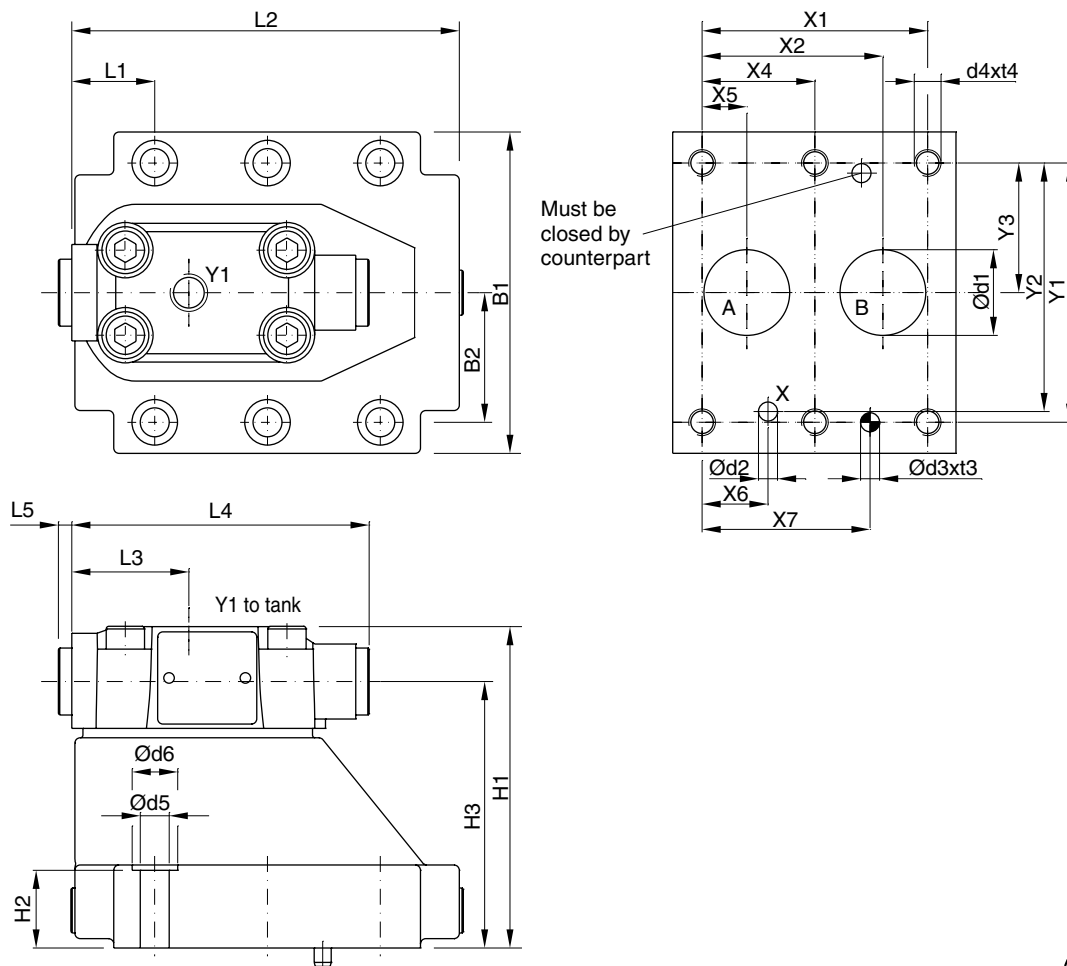
Function		PNP, contact
Supply voltage (U <sub>s</sub> )	[VDC]	10...30
Supply voltage ripple	[%]	≤ 10
Current consumption	[mA]	max. 8
Residual voltage L-signal	[V]	U <sub>s</sub> - 2.2 at Imax
Output current (I)	[mA]	≤ 200
Protection class		IP67
Ambient temperature	[C°]	-25...+70
Wire cross section	[mm <sup>2</sup> ]	3 x 0.5

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**Dimensions**

**Hydraulically Pilot Operated Check Valve  
Series C4V**



**6**

NG	ISO-code	x1	x2	x3	x4	x5	x6	x7	y1	y2	y3	y4	y5	y6
10	5781-06-07-0-00	42.9	35.8	-	-	7.2	21.5	31.8	66.7	58.8	33.4	-	-	-
25	5781-08-10-0-00	60.3	49.2	-	-	11.1	20.6	44.5	79.4	73	39.7	-	-	-
32	5781-10-13-0-00	84.2	67.5	-	42.1	16.7	24.6	62.7	96.8	92.8	48.4	-	-	-

Tolerance for all dimensions ±0.2

NG	ISO-code	B1	B2	H1	H2	H3	H4	H5	H6	L1	L2	L3	L4	L5	L6
10	5781-06-07-0-00	87.3	33.4	83	21	62.5	-	-	-	29.4	95.2	43.7	111	5	-
25	5781-08-10-0-00	105	39.7	107.5	29	87	-	-	-	35.1	127.2	43.7	111	5	-
32	5781-10-13-0-00	120	48.4	120	30	99.5	-	-	-	31	144.7	43.7	111	5	-

NG	ISO-code	d1max	d2max	d3	t3	d4	t4	d5	d6
10	5781-06-07-0-00	15	7	7.1	8	M10	16	10.8	17
25	5781-08-10-0-00	23.4	7.1	7.1	8	M10	18	10.8	17
32	5781-10-13-0-00	32	7.1	7.1	8	M10	20	10.8	17

NG	ISO-code	Bolt kit			Kit		Surface finish
					NBR	FPM	
10	5781-06-07-0-00	BK505	4x M10x35 ISO 4762-12.9	63 Nm ±15 %	S26-58507-0	S26-58507-5	
25	5781-08-10-0-00	BK485	4x M10x45 ISO 4762-12.9	63 Nm ±15 %	S26-58475-0	S26-58475-5	
32	5781-10-13-0-00	BK506	6x M10x45 ISO 4762-12.9	63 Nm ±15 %	S26-58508-0	S26-58508-5	

C4V pilot oper. UK.INDD CM 16.04.15

