# **Characteristics / Ordering Code**

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).

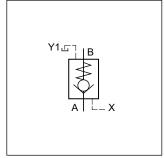
## **Function**

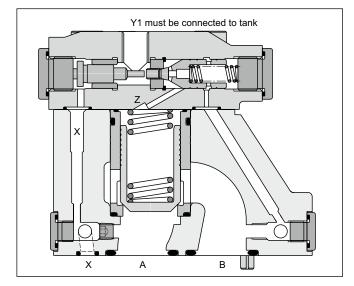
When no pressure is applied to the X-port, the flow from B to A is blocked, because the pressure in B is also in effect on top of the poppet.

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

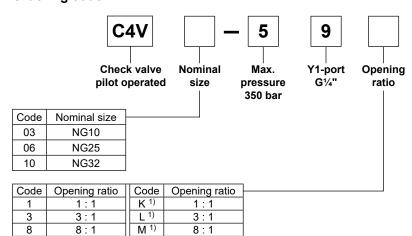
The seat design of the SVL valve series provides leak-free separation of port A and B in the closed position.







## **Ordering code**



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	В	
Approx.	Design	Seal
cracking	series	
pressure		
		Code
		1
		5

Code	Approx. cracking pressure [bar]								
	Flow	A to B	Flow B to A						
	C4V03	C4V06/10	C4V03	C4V06/10					
2	1.0	1.0	1.5	1.7					
4	4.0	3.5	5.5	6.0					
6	2.0	2.2	3.0	3.8					

N 1)

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10:1



Seal

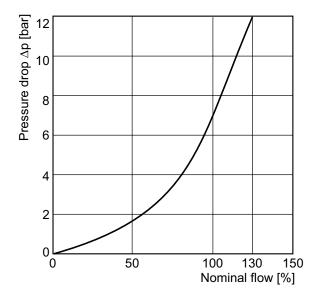
NBR FPM

<sup>1)</sup> Position control incl. amplifier for C4V06/10 only.

## **Technical data**

General	General									
Nominal size			NG10 NG25 NG32							
Subplate mounting	1		ISO 5781							
Mounting position			Unrestricted							
Ambient temperatu	ure	[°C]	-20+60							
MTTF <sub>D</sub> value		[years]	150							
Weight		[kg]	2.8	4.6	6.1					
Hydraulic										
Max. operating pre	essure	[bar]	350							
Nominal flow		[l/min]	150	270	450					
Fluid			Hydraulic oil according to DIN 51524							
Fluid temperature	Fluid temperature [°C]			-20+70 (NBR: -25+70)						
Viscosity,	permitted	[cSt] / [mm²/s]	20400							
	recommended	[cSt] / [mm²/s]	3080							
Filtration			ISO 4406; 18/16/13							

## ∆p/Q flow curve



Characteristic curve measured with HLP46 at 50 °C.



## Position control as per IEC 61076-2-101 (M12x1)

Protection class		IP65 in accordance with EN 60529
Ambient temperature	[°C]	-20+60
Supply voltage Us / ripple	[V]	1030 / ±10 %
Current consumption without load	[mA]	≤ 10
Max. output current per channel, ohmic	[mA]	200
Min. output load per channel, ohmic	[kOhm]	100
Max. output drop at 0.2 A	[V]	≤ 2
EMC		EN61000-6-4 / EN61000-6-2
Min. distance to next AC solenoid	[m]	> 0.1
Interface		M12x1 acc. to IEC 61076-2-101
Wiring min.	[mm²]	3 x 0.14 brad shield recommended
Wiring length max.	[m]	50 recommended

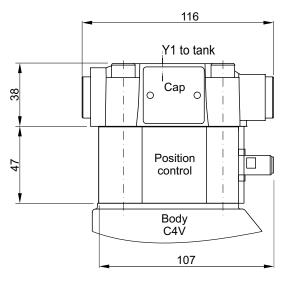
#### **Position control**

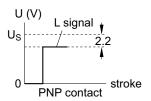
Position control by proximity switch with amplifier. The closed position is monitored.

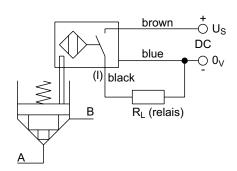
Valve open: proximity switch activated.

This proximity switch is pressure proof and has no wearing parts.

Note: Position control for C4V06 and C4V10 only.

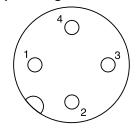




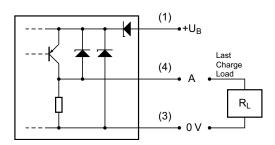


Please order plug M12 x 1 separately. Straight plug recommended – no defined position possible for angled plug.

## M12 pin assignment



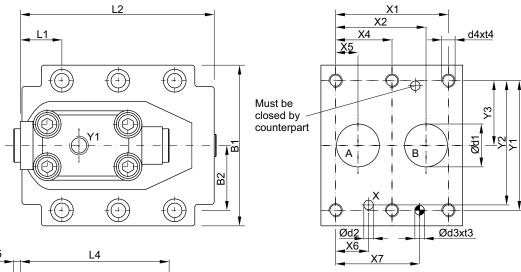
- 1 Us 10...30 V
- 2 not connected
- 3 0 V
- 4 Out A: normally open

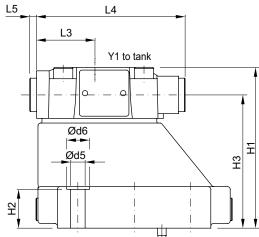


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## **Dimensions**







NG	ISO-code	<b>x1</b>	x2	х3	x4	x5	x6	х7	y1	y2	у3	y4	у5	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	Н3	H4	H5	Н6	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	5781-08-0-0-00	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	即受	6-11-	Kit		Surface finish
	1000000		Electric A	₹	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	R <sub>max</sub> 6.3
32	5781-10-13-0-00	BK506	6x M10x45 ISO 4762-12.9	63 Nm ±15 %	S26-58508-0	S26-58508-5	///////////////////////////////////////

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