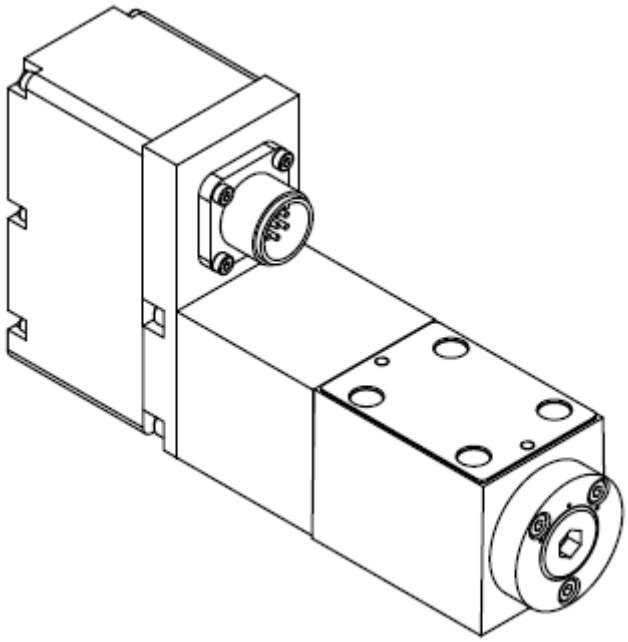
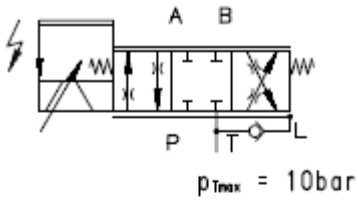
Servo Propertional valve
HVM 065

Primarily Version

Single stage electro hydraulic Proportional valve with position feedback
Mounting style NG 6/ Cetop 03





Description

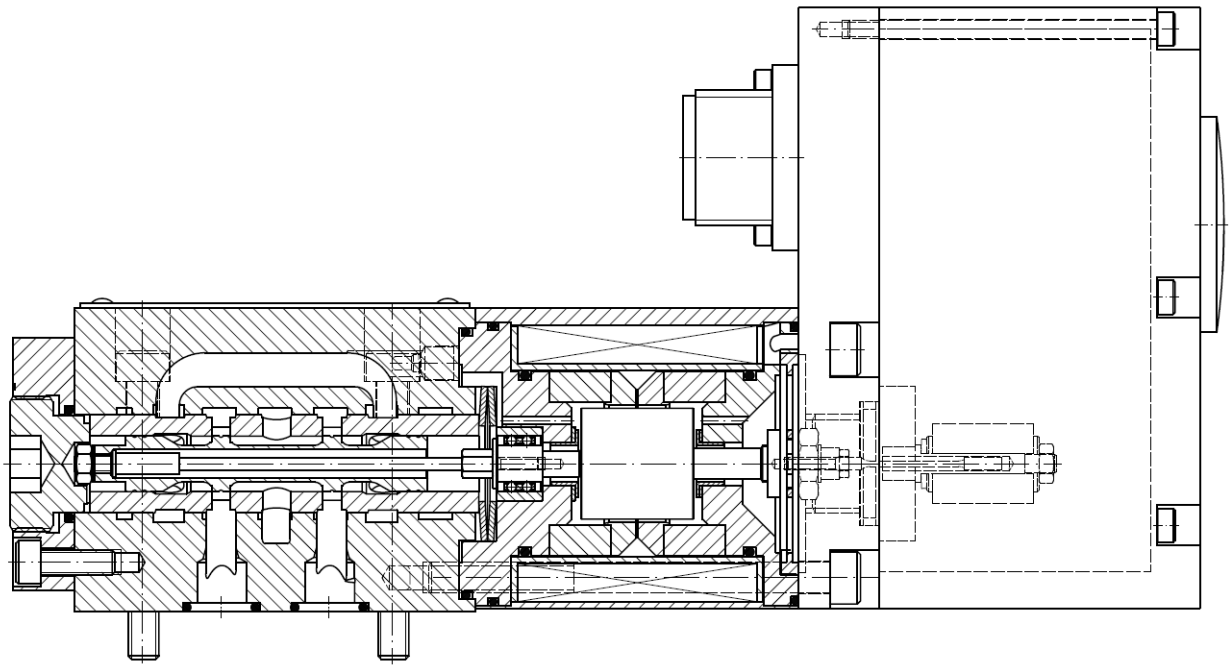
Single stage proportional valve in longitudinal piston slide building method (directly actuated) with linear motor.
The position feedback of the pilot piston is realized over a LVDT displacement gauge and digital on board electronics. By the high strength reserve of the linear motor, the valve can be operated also in hydraulic fluids of smaller categories of purity with a good resolution. Further the proportional valve HVM 065 possesses outstanding dynamic and static characteristic values.

Special characteristics

* Robust and compact design
* Position closed loop adjustable with USB interface
* High power reserve of the Linear motor
* Reduced dirty oil sensitive
* Flow Q_{max} = 40 l/min with Δp = 35 bar/edge
* Pressure p_{max} = 315 bar
* Hydraulic and electric zero adjustment
* Emergency movement without electrical power possible

Schneider Servohydraulics GmbH
Südstraße 4 | D-32457 Porta Westfalica
office@schneider-servohydraulics.com
www.schneider-servohydraulics.com

Cutting view HVM 065



Technical data

A Hydraulic data

1.	Operating pressure	p_b	210 bar
2.	max pressure	p_{max}	315 bar
3.	Return pressure max.	p_{Rmax}	10 bar
4.	Leakage oil pressure		L internal with T conn.
5.	Rated flow at Δp 70 bar	Q_N	10/20/40 l/min
6.	Zero flow	Q_{01+02}	< 4 %
7.	Hysteresis	H	< 0,1%
8.	Threshold sensivity	E	< 0,1 %
9.	Threshold span	S	< 0,1 %
10.	Lineartity deviation	L	< ±5 % Q_N
11.	Pressure gain	V_p	> 0,2 p_B/1%Soll
12.	Overlap standard	h	-1 to +3 %
13.	Step response time	t	< 8 ms
14.	Operating temperature range	ϑ	253 to 353 K
15.	Temperature drift		< 1 % / 50 K
16.	Viscosity range of fluid		10 to 1000 mm^2/s
17.	Fluid standard		ISO VG 10 to 68
18.	Filtation (recommended)		ISO4406Klasse16/14/11

B Electrical data

Electrical connection 6 Pin + PE DIN 43563

1.	Power supply	24V DC (20…28V)
2.	Signal input	
	a. voltage	0…±10V
	b. current	4 up to 20 mA
3.	Signal direction	from Pin D to Pin E
4.	Flow direction	+10V = P to A and B to T
5.	Protection level	IP 65
6.	EMV	EN 61000-6-2 EN 61000-6-4
7.	Service connection	USB Type B

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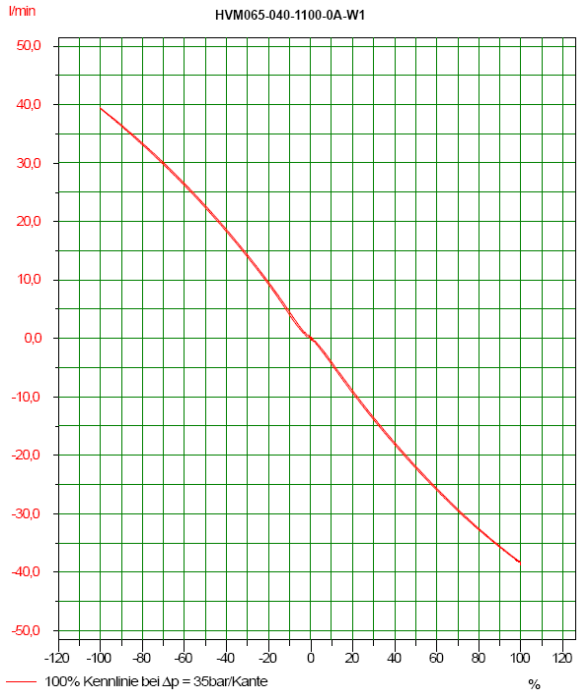
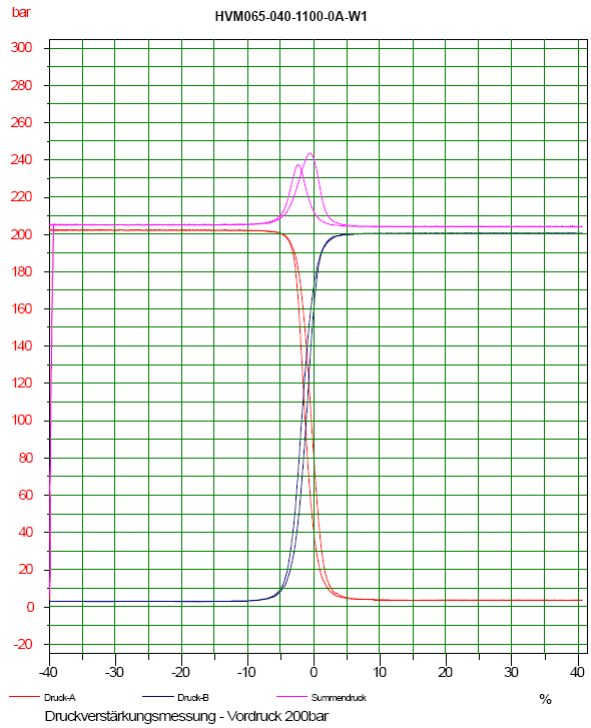
Diagram

Static flow diagram



Pressure gain



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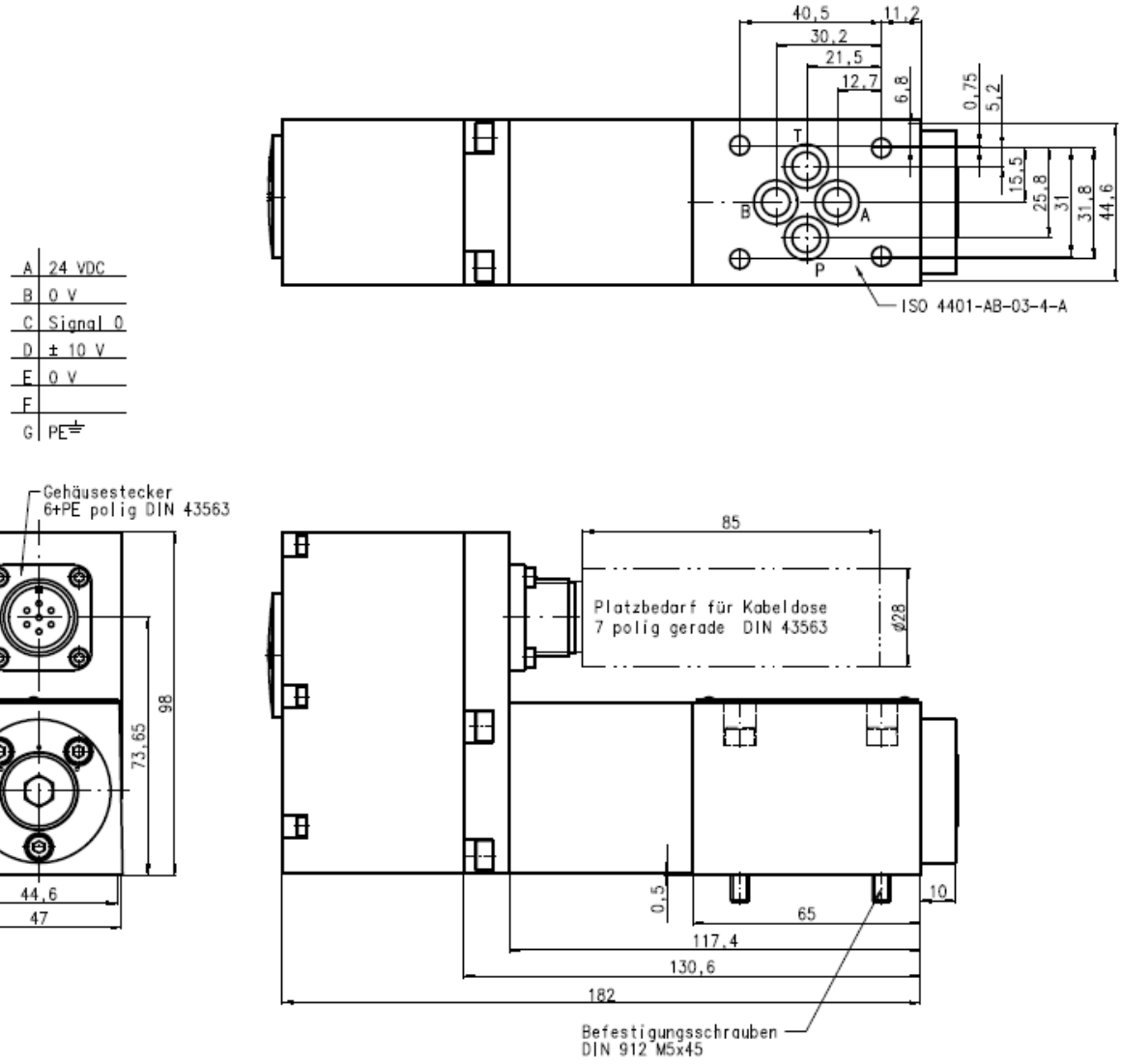
Dimensions



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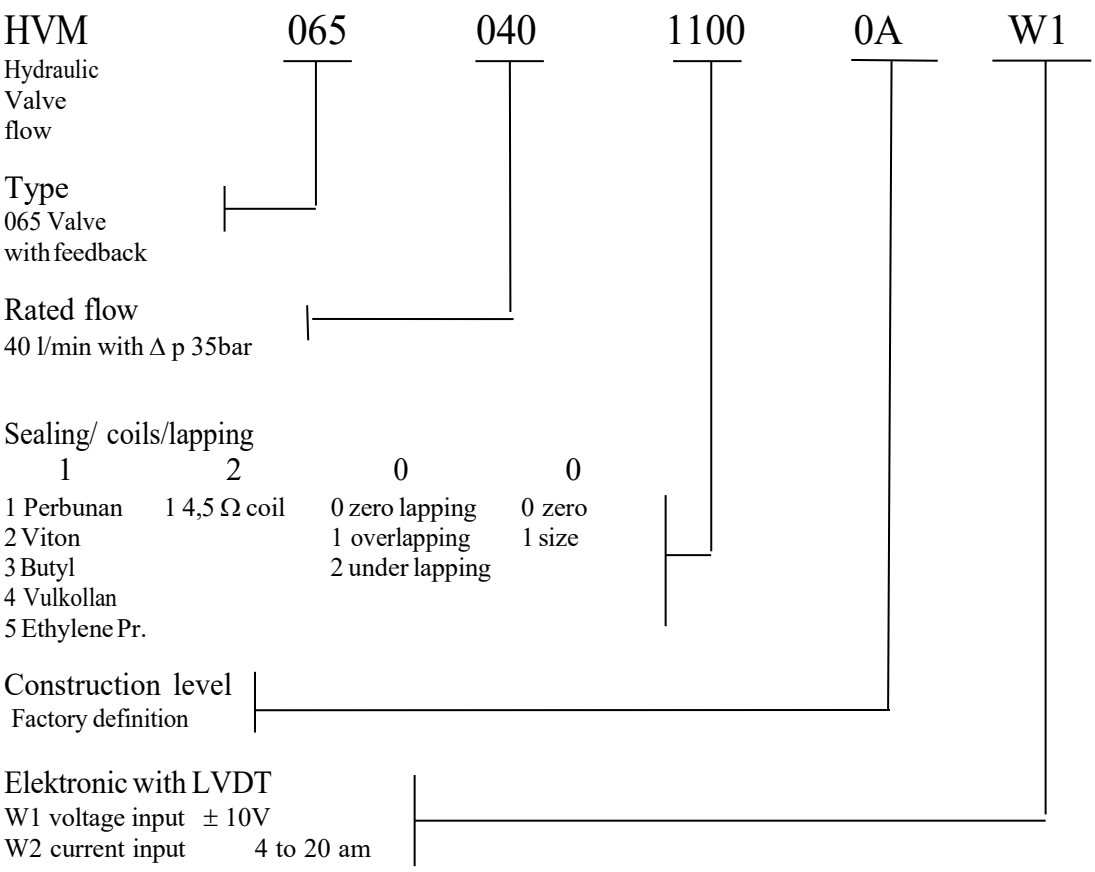
Order code



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