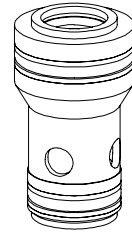
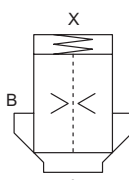
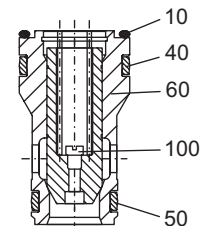


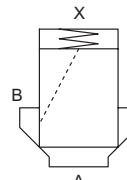
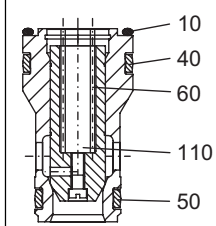
**2 position, 2 way cartridge valve**

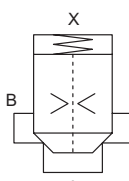
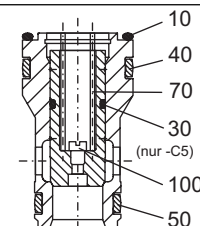
- $Q_{max} = 1'200 \text{ l/min}$
- $p_{max} = 350 \text{ bar}$

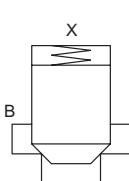
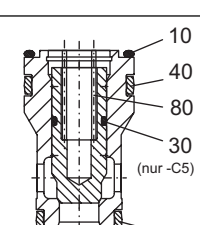
**NG 40**  
 ISO 7368  
 DIN 24342

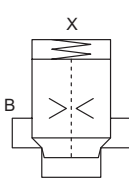
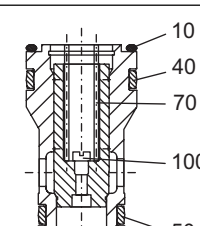


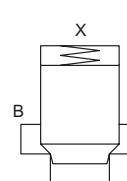
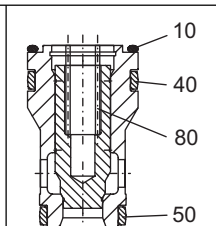
<b>Type:</b> CS40-10/.. <b>General application:</b> Pressur relief valve	<b>Symbol:</b>  Opening ratio: 1:1	 Opening pressure: A → B 0.5; 2.0; 5.0 bar
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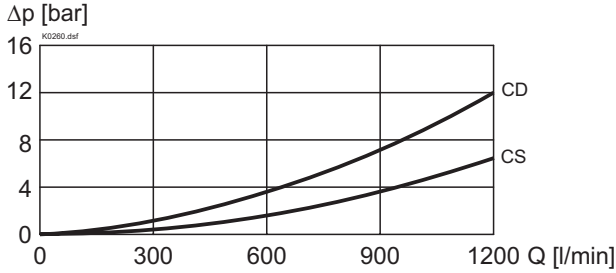
<b>Type:</b> CS40-10/..-C7 <b>General application:</b> Non-return valve	<b>Symbol:</b>  Opening ratio: 1:1	 Opening pressure: A → B 0.5; 2.0; 5.0 bar
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<b>Type:</b> CS40-12/.. <b>General application:</b> Spool valve  <b>Type:</b> CS40-12/..-C5 <b>General application:</b> Poppet valve	<b>Symbol:</b>  Opening ratio: 1:1,2	 Opening pressure: A → B 0.5; 2.0; 5.0 bar
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<b>Type:</b> CS40-20/.. <b>General application:</b> Spool valve  <b>Type:</b> CS40-20/..-C5 <b>General application:</b> Poppet valve	<b>Symbol:</b>  Opening ratio: 1:2	 Opening pressure: A → B 0.5; 2.0; 5.0 bar
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<b>Type:</b> CD40-12/.. <b>General application:</b> Flow valve	<b>Symbol:</b>  Opening ratio: 1:1,2	 Opening pressure: A → B 0.5; 2.0; 5.0 bar
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<b>Type:</b> CD40-20/..- <b>General application:</b> Flow valve	<b>Symbol:</b>  Opening ratio: 1:2	 Opening pressure: A → B 0.5; 2.0; 5.0 bar
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**CHARACTERISTICS** Oil viscosity  $\nu = 30 \text{ mm}^2/\text{s}$ 


Opening pressures B→A = f (Area ratio opening pressure A→B)

Area ratio	Opening pressure [bar]	
	A → B	B → A
1:1,2	0.5	2.5
1:1,2	2.0	10.0
1:1,2	5.0	25.0
1:2	0.5	0.5
1:2	2.0	2.0
1:2	5.0	5.0

**GENERAL SPECIFICATIONS**

Design	2 way cartridge valve
Installation	any
Installation dimension	to ISO 7368 / DIN 24342 refer to data sheet 2.13-1024
Ambient temp.	-20...+50°C
Weight spool	m = 0,485 kg
Weight total	m = 1,650 kg

**HYDRAULIC SPECIFICATIONS**

Fluid	Mineral oil, other fluid on request
Contamination	ISO 4406:1999, class 18/16/13
Efficiency	Required filtration grade (β6...10≥75) (refer to data sheet Nr. 1.0-50/2)
Viscosity range	12 mm <sup>2</sup> /s...320 mm <sup>2</sup> /s
Fluid temperature	-20...+70°C
Working pressure	p <sub>max</sub> = 350 bar (Connections A, B, X)
Max. volume flow	Q <sub>max</sub> = 1'200 l/min
Pilot oil volume	Q <sub>st</sub> = 15.1 cm <sup>3</sup>

**TYPE CODE**

Slip-in cartridge		C	<input type="checkbox"/>	40	-	<input type="checkbox"/>	/	<input type="checkbox"/>	/	<input type="checkbox"/>	-	<input type="checkbox"/>	#	<input type="checkbox"/>
Poppet spool	<input type="checkbox"/> S													
Poppet spool with damping	<input type="checkbox"/> D													
Size 40														
Area ratio:	1:1	<input type="checkbox"/> 10												
	1:1,2	<input type="checkbox"/> 12												
	1:2	<input type="checkbox"/> 20 *												
Opening pressure A → B: 0 bar (no spring)		<input type="checkbox"/> 0												
	0.5 bar	<input type="checkbox"/> 05												
	2.0 bar	<input type="checkbox"/> 20												
	5.0 bar	<input type="checkbox"/> 50												
Orifice in poppet spool: plugged		<input type="checkbox"/> 0												
	0.4 mm	<input type="checkbox"/> 0,4												
	0.6 mm	<input type="checkbox"/> 0,6												
	usw.													
Omit if ordered without orifice or plug														
* Omitted as no provision for orifice made														
Special features for poppet spools only:														
Check function X connected to B port		<input type="checkbox"/> C7												
additional seal on poppet spool		<input type="checkbox"/> C5												

Design-Index (subject to change)

**PARTS LIST**

Position	Article	Description
10	160.2628	O-Ring ID 62,87x5,33
30	160.2328	O-Ring ID 32,92x3,53
40	49.0750	Cover-Seal PU 83 rd 75/65,6x8,8
50	49.0550	Cover-Seal PU 83 rd 55/48,8x6,1
60	53.6403	Spring 2,5x26x105
	53.7902	Spring 3,6x26x104,2
	53.8903	Spring 4,5x26x102,3
70	53.6404	Spring 2,5x26x96,5
	53.7901	Spring 3,6x26x94,7
	53.8400	Spring 4,25x26x98,1

Position	Article	Description
80	53.5400	Spring 2x26x83,6
	53.7402	Spring 3x26x82,7
	53.7903	Spring 3,6x26x83
100	246.1003	Cyl. screw M4x4 VSM 213302
	117.1001	Orifice bing M4 / 0,4
	117.1003	Orifice bing M4 / 0,6
	117.1005	Orifice bing M4 / 0,8
	117.1007	Orifice bing M4 / 1,0
110	246.1003	Cyl. screw M4x4 VSM 213302