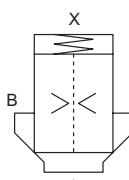
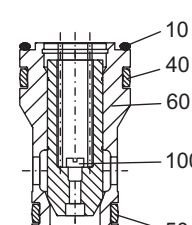


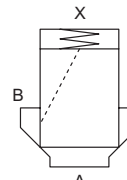
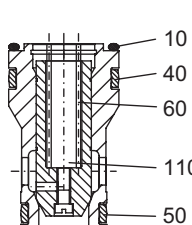
2 position, 2 way cartridge valve

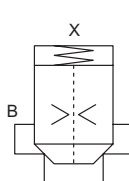
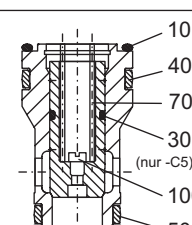
- $Q_{max} = 400$ l/min
- $p_{max} = 350$ bar

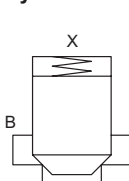
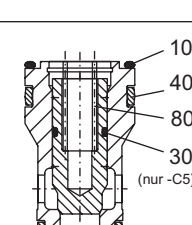
NG 25
ISO 7368

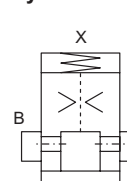
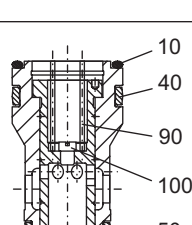


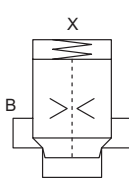
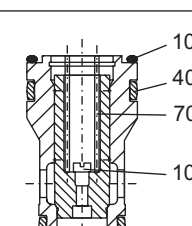
<p>Type: CS25-10/..</p> <p>General application: Pressure relief valve</p>	<p>Symbol:</p>  <p>Opening ratio: 1:1</p>	 <p>Opening pressure: A → B 0.5; 2.0; 5.0 bar</p>
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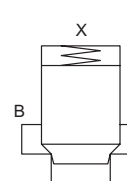
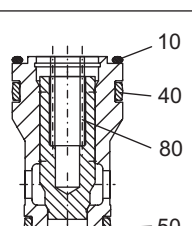
<p>Type: CS25-10/..-C7</p> <p>General application: Non-return valve</p>	<p>Symbol:</p>  <p>Opening ratio: 1:1</p>	 <p>Opening pressure: A → B 0.5; 2.0; 5.0 bar</p>
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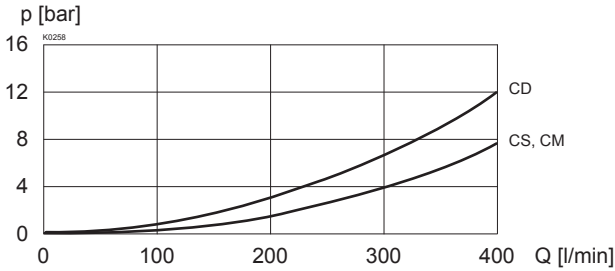
<p>Type: CS25-12/..</p> <p>General application: Spool valve</p>	<p>Symbol:</p>  <p>Opening ratio: 1:1,2</p>	 <p>Opening pressure: A → B 0.5; 2.0; 5.0 bar</p>
<p>Type: CS25-12/..-C5</p> <p>General application: Poppet valve</p>		

<p>Type: CS25-20/..</p> <p>General application: Spool valve</p>	<p>Symbol:</p>  <p>Opening ratio: 1:2</p>	 <p>Opening pressure: A → B 0.5; 2.0; 5.0 bar</p>
<p>Type: CS25-20/..-C5</p> <p>General application: Poppet valve</p>		

<p>Type: CM25-10/..</p> <p>General application: Pressure reducing valve</p>	<p>Symbol:</p>  <p>Opening ratio: 1:1</p>	 <p>Closing pressure: B → A 3.0 bar</p>
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<p>Type: CD25-12/..</p> <p>General application: Flow valve</p>	<p>Symbol:</p>  <p>Opening ratio: 1:1,2</p>	 <p>Opening pressure: A → B 0.5; 2.0; 5.0 bar</p>
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<p>Type: CD25-20/..-</p> <p>General application: Flow valve</p>	<p>Symbol:</p>  <p>Opening ratio: 1:2</p>	 <p>Opening pressure: A → B 0.5; 2.0; 5.0 bar</p>
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CHARACTERISTICS Oil viscosity $\nu = 30 \text{ mm}^2/\text{s}$
 $\Delta p = f(Q)$ Pressure loss / flow characteristics

 Opening pressure $B \rightarrow A = f(\text{Area ratio Opening pressure } A \rightarrow B)$

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 24 342 refer to data sheet 2.13-1022
Ambient temp.	-20...+50 °C
Weight spool	m = 0,140 kg
Weight total	m = 0,420 kg

HYDRAULIC SPECIFICATIONS

Fluid	Mineral oil, other fluid on request
Contamination	ISO 4406:1999, class 18/16/13
Efficiency	Required filtration grade ($\beta_{6...10} \geq 75$) (refer to data sheet Nr. 1.0-50/2)
Viscosity range	12 mm ² /s...320 mm ² /s
Fluid temperature	-20...+70 °C
Working pressure	$p_{\text{max}} = 350 \text{ bar}$ (connections A, B, X)
Max. volume flow	$Q_{\text{max}} = 400 \text{ l/min}$
Pilot oil volume	$Q_{\text{st}} = 3,7 \text{ cm}^3$

TYPE CODE

Slip-in cartridge		C		<input type="checkbox"/>	25	-	<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														
Spool	<input type="checkbox"/> M														
Size 25															
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													
	3.0 bar (only CM)	<input type="checkbox"/> 30													
	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															
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	160.2372	O-Ring ID 37,70x3,53
30	160.2203	O-Ring ID 20,29x2,62
40	049.0450	Cover-Seal PU 83 rd 45/38,8x6,1
50	049.0340	Cover-Seal PU 83 rd 34/29,5x5,1
60	053.4801 053.6302 052.6701	Spring 1,8x15,7x60,2 Spring 2,4x15,7x62,2 Spring 2,8x15x64
70	053.4300 053.5800 053.6800	Spring 1,6x15,7x57,3 Spring 2,25x15,7x59,5 Spring 2,6x15,7x62,3

Position	Article	Description
80	053.2800 053.4301 053.5900	Spring 1,1x15,2x57,6 Spring 1,7x15,7x56,2 Spring 2,1x15,7x60,5
90	053.6301	Spring 2,3x15,3x34
100	246.1003 118.1041 117.1003 117.1005 117.1007	Cyl. screw M4x4 VSM 213302 Orifice M4 / 0,4 Orifice bing M4 / 0,6 Orifice bing M4 / 0,8 Orifice bing M4 / 1,0
110	246.1003	Cyl. screw M4x4 VSM 213302