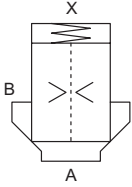
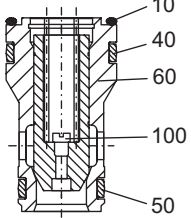
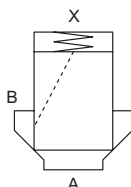
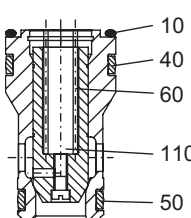
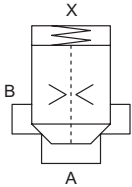
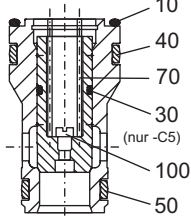
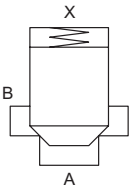
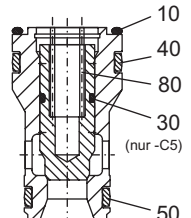
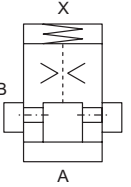
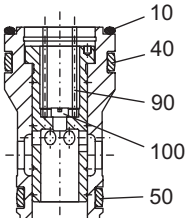
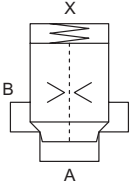
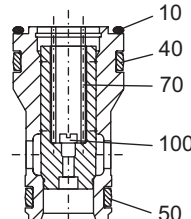
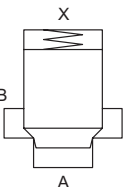
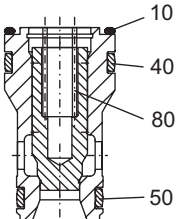
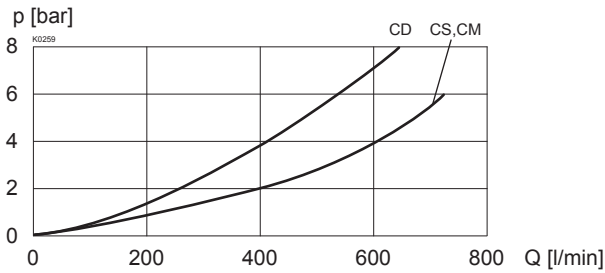


2 position, 2 way cartridge valve

- $Q_{max} = 700 \text{ l/min}$
- $p_{max} = 350 \text{ bar}$

NG 32
 ISO 7368


<p>Type: CS32-10/..</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>	<p>Type: CS32-10/..-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>
<p>Type: CS32-12/..</p> <p>General application: Spool valve</p> <p>Type: CS32-12/..-C5</p> <p>General application: Poppet 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: CS32-20/..</p> <p>General application: Spool valve</p> <p>Type: CS32-20/..-C5</p> <p>General application: Poppet 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: CM32-10/..</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>
<p>Type: CD32-12/..</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>	<p>Type: CD32-20/..-</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>

CHARACTERISTICS Oil viscosity $\nu = 30 \text{ mm}^2/\text{s}$
 $\Delta p = f(Q)$ Pressure loss / flow characteristics

 Opening pressure $B \rightarrow A = f$ (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 2.13-1023
Ambient temp.	-20...+50 °C
Weight spool	m = 0,267 kg
Weight total	m = 0,895 kg

HYDRAULIC SPECIFICATIONS

Fluid	Mineral oil, other fluid on request
Contamination	ISO 4406:1999, class 18/16/13
Efficiency	Required filtration grade (B6...10≥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	$p_{\max} = 350 \text{ bar}$ (Connections A, B, X)
Max. volume flow	$Q_{\max} = 700 \text{ l/min}$
Pilot oil volume	$Q_{st} = 7,8 \text{ cm}^3$

TYPE CODE

Slip-in cartridge		C	<input type="checkbox"/>	32	-	<input type="checkbox"/>	/	<input type="checkbox"/>	/	<input type="checkbox"/>	-	<input type="checkbox"/>	#	<input type="checkbox"/>
Poppet spool		S												
Poppet spool with damping		D												
Spool		M												
Size 32														
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	<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	160.2522	O-Ring ID 52,39x3,53
30	160.2266	O-Ring ID 26,64x2,62
40	49.0600	Cover-Seal PU 83 rd 60/53,8x6,1
50	49.0451	Cover-Seal PU 83 rd 45/40,5x5,1
60	53.5401	Spring 2x20,5x82,1
	53.6901	Spring 2,8x20,5x83,7
	53.7900	Spring 3,8x20,5x78,4
70	53.4900	Spring 1,8x20,5x79,4
	53.6902	Spring 2,6x20,5x79,3
	53.7403	Spring 3,4x20,5x77,5

Position	Article	Description
80	53.3900	Spring 1,5x20,5x70,2
	53.5901	Spring 2,2x20,5x67,3
	53.7404	Spring 3x20,5x63,5
90	52.6405	Spring 2,5x22,5x54
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