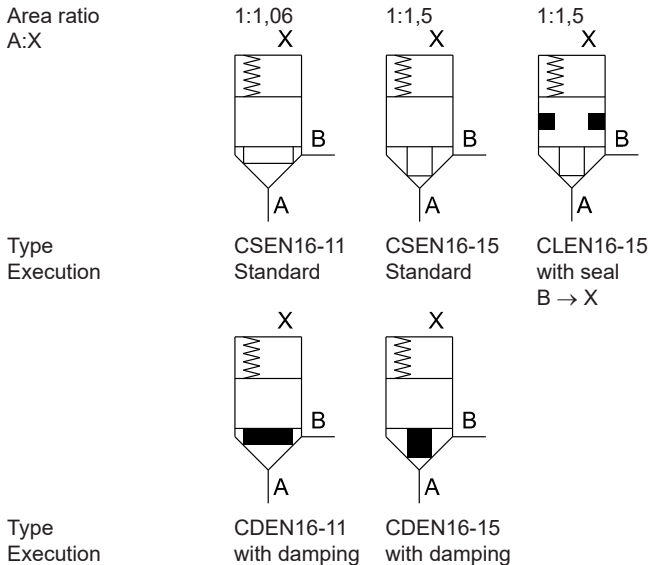
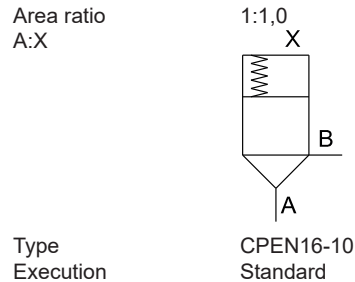


2/2-way slip-in cartridge valves

- $Q_{max} = 360 \text{ l/min}$
- $p_{max} = 630 \text{ bar}$

NG 16
 DIN ISO 7368

2/2-WAY FUNCTION

PRESSURE RELIEF

TYPE CODE

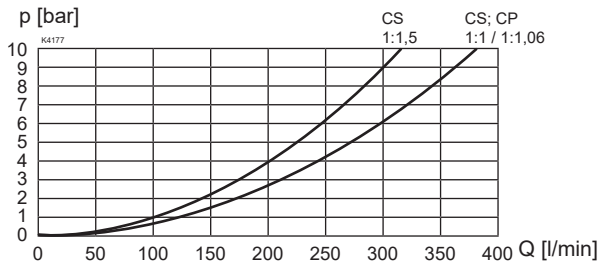
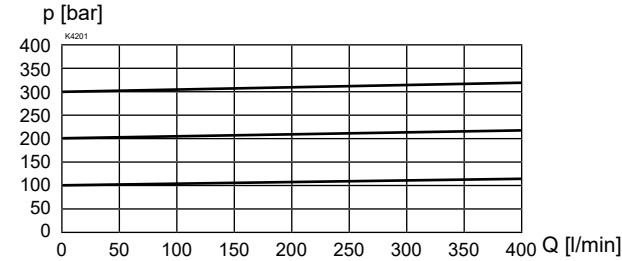
2/2-way slip-in cartridge valve		C		EN16 - □ / □ / □ - □ # □	
Seat construction	S				
Seat construction with seal	L				
Seat construction with damping	D				
Pressure function	P				
Nominal size 16, Enhanced					
Area ratio	1:1	10	For pressure function only		
	1:1,06	11			
	1:1,5	15			
Opening pressure A to B	0 bar (without spring)	0	Not for type CLEN		
Nominal	0.5 bar	05	Not for type CLEN		
	1.0 bar	10			
	2.0 bar	20			
	4.0 bar	40			
Orifice in poppet spool	closed				
Sealing material	NBR				
	FKM	D1	(Viton)		
Design-Index (subject to change)					

GENERAL SPECIFICATIONS

Construction	2/2-way slip-in cartridge valves
Mounting position	any
Mounting dimensions	according to DIN ISO 7368
Ambient temperature	-30...+80 °C
Weight spool	m = 0,035 kg (1:1,5)
Weight total	m = 0,180 kg (1:1,5; without spring)
MTTFd	150 years

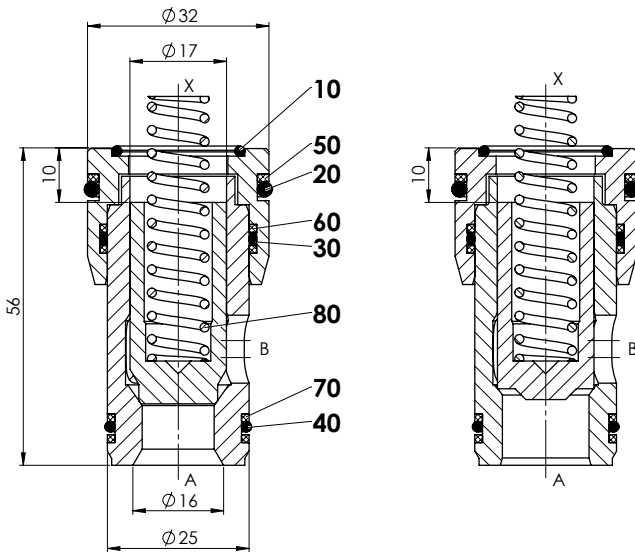
HYDRAULIC SPECIFICATIONS

Fluid	Mineral oil, other fluid on request
Contamination efficiency	ISO 4406:1999, class 18/16/13 (Required filtration grade $\beta_{6...10} \geq 75$) refer to data sheet no. 1.0-50/2
Viscosity range	12 mm ² /s...320 mm ² /s
Fluid temperature	-20...+80 °C (FKM) -30...+80 °C (NBR)
Operating pressure	$p_{max} = 630 \text{ bar}$ (connections A, B, X) CLEN $p_{max} = 420 \text{ bar}$ CPEN connection X, X-A = < 420 bar max. cover pressure to be observed
Max. volume flow	$Q_{max} = 360 \text{ l/min}$ at v = 30 m/s
Pilot oil volume	$Q_{st} = 2,2 \text{ cm}^3$


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

 $p = f(Q)$ Pressure volume flow characteristics

DIMENSIONS

CSEN16-15

CPEN16-10


INSTALLATION NOTES

Mounting type Slip-in cartridge
 Mounting position Any, preferably horizontal
 Dismounting Dismounting tool
 DW-C.E.16
 Article no. 983.3015

 **Note!** The length of the cover fixing screws to be used depends on the base material of the valve body and on the maximum system pressure.

CHARACTERISTICS

Nominal	Opening pressure [bar]			
	0,5	1,0	2,0	4,0

Area ratio	Flow direction A to B			
	0,4	0,8	1,6	3,2
1:1				
1:1,06				
1:1,5				

Area ratio	Flow direction B to A			
	-	-	-	-
1:1				
1:1,06				
1:1,5				

Pressure spring	Article no.			
	053.2201	053.2702	053.3203	053.4210

PARTS LIST

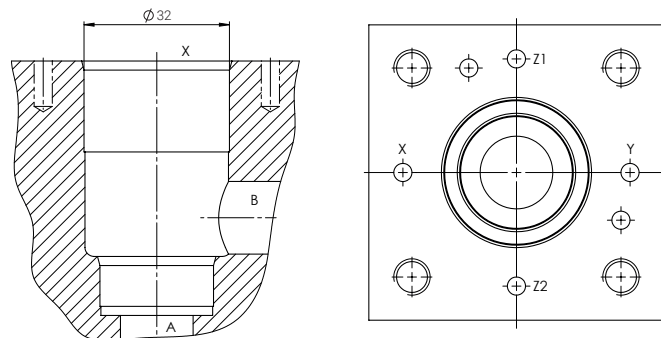
Position	Description	Seal kit
10	O-ring ID 20,35 x 1,78	•
20	O-ring ID 26,64 x 2,62	•
30	O-ring ID 25,12 x 1,78	•
40	O-ring ID 21,95 x 1,78	•
50	Backup ring rd 25,7 x 29,8 x 1,4	
60	Backup ring rd 25,0 x 27,7 x 1,4	
70	Backup ring rd 20,1 x 22,8 x 1,4	
80	Pressure spring 10,9	


SEAL KIT

251.6810	Seal kit C.E.16	NBR
251.6811	Seal kit C.E.16	VITON

HYDRAULIC CONNECTION

Cavity drawing according to ISO 7368



 **Important!** For detailed cavity drawing and cavity tools see data sheet 2.13-1021