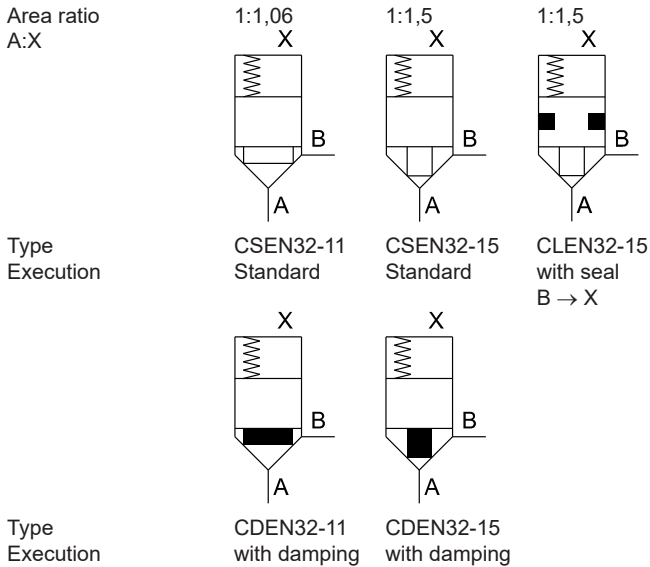
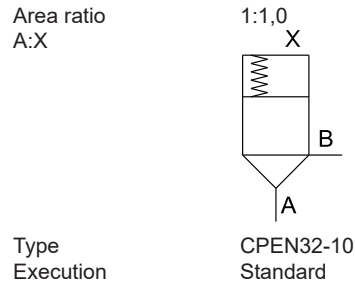


## 2/2-way slip-in cartridge valves

- $Q_{max} = 1450$  l/min
- $p_{max} = 630$  bar

**NG 32**  
 DIN ISO 7368

**2/2-WAY FUNCTION**

**PRESSURE RELIEF**

**TYPE CODE**

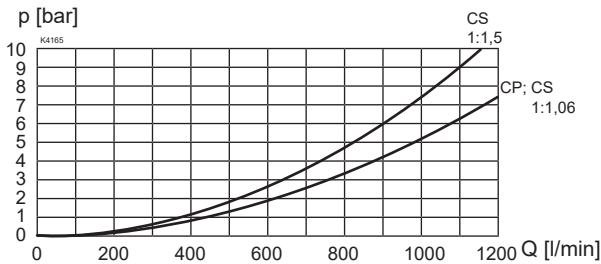
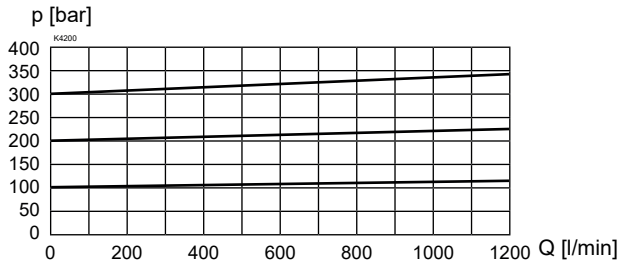
2/2-way slip-in cartridge valve	C	<input type="checkbox"/>	EN32	-	<input type="checkbox"/>	/	<input type="checkbox"/>	/	<input type="checkbox"/>	/	<input type="checkbox"/>	-	<input type="checkbox"/>	#	<input type="checkbox"/>
Seat construction	<input type="checkbox"/>	S													
Seat construction with seal	<input type="checkbox"/>	L													
Seat construction with damping	<input type="checkbox"/>	D													
Pressure function	<input type="checkbox"/>	P													
Nominal size 32, Enhanced															
Area ratio	1:1	<input type="checkbox"/>	10												For pressure function only
	1:1,06	<input type="checkbox"/>	11												
	1:1,5	<input type="checkbox"/>	15												
Opening pressure A to B	0 bar (without spring)	<input type="checkbox"/>	0												Not for type CLEN
Nominal	0.5 bar	<input type="checkbox"/>	05												Not for type CLEN
	1.0 bar	<input type="checkbox"/>	10												
	2.0 bar	<input type="checkbox"/>	20												
	4.0 bar	<input type="checkbox"/>	40												
Orifice in poppet spool	closed	<input type="checkbox"/>													
Sealing material	NBR	<input type="checkbox"/>													
	FKM	<input type="checkbox"/>	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 = 0,25 kg (1:1,5)
Weight total	m = 0,93kg (1:1,5; without spring)
MTTFd	150 years

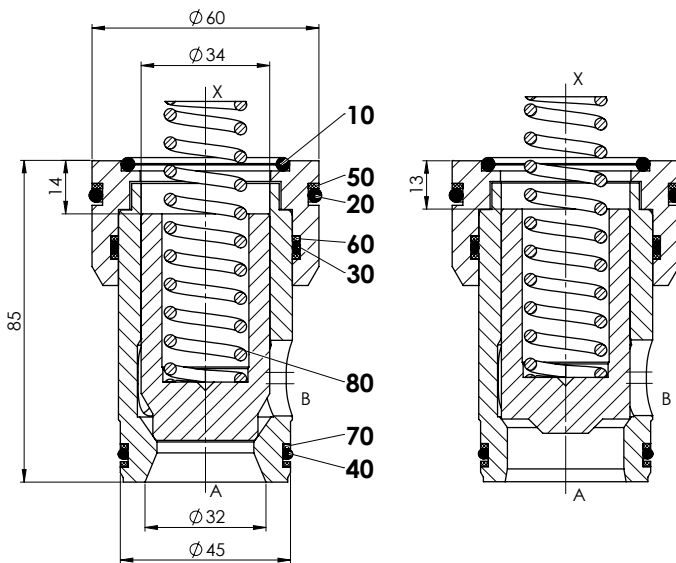
**HYDRAULIC SPECIFICATIONS**

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 <sup>2</sup> /s...320 mm <sup>2</sup> /s
Fluid temperature	-20...+80 °C (FKM) -30...+80 °C (NBR)
Operating pressure	$p_{max} = 630$ bar (connections A, B, X) CLEN $p_{max} = 420$ bar CPEN connection X, X-A = < 420 bar max. cover pressure to be observed
Max. volume flow	$Q_{max} = 1450$ l/min at v = 30 m/s
Pilot oil volume	$Q_{st} = 12,7$ cm <sup>3</sup>

**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**

CSEN32-15

CPEN32-10


**INSTALLATION NOTES**

Mounting type	Slip-in cartridge
Mounting position	Any, preferably horizontal
Dismounting	Dismounting tool DW-C.E.32 Article no. 983.3013

**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.			
	053.5405	053.5902	053.6903	053.7410

**PARTS LIST**

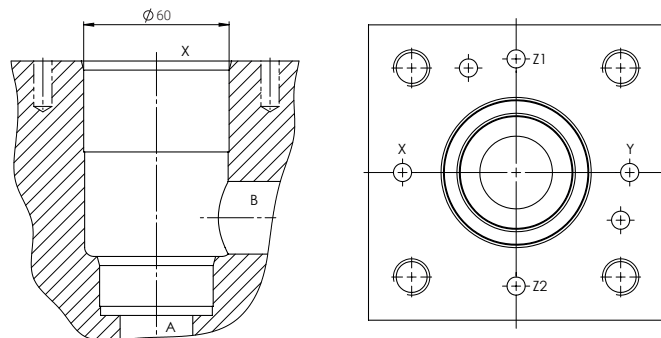
Position	Description	Seal kit
10	O-ring ID 37,70 x 3,53	•
20	O-ring ID 52,39 x 3,53	•
30	O-ring ID 45,69 x 2,62	•
40	O-ring ID 39,34 x 2,62	•
50	Backup ring rd 51,7 x 57,3 x 1,4	
60	Backup ring rd 46,0 x 50,1 x 1,4	
70	Backup ring rd 38,5 x 42,6 x 1,4	
80	Pressure spring 21,8	

**SEAL KIT**

251.6810	Seal kit C.E.32	NBR
251.6811	Seal kit C.E.32	VITON

**HYDRAULIC CONNECTION**

Cavity drawing according to ISO 7368



**Important!** For detailed cavity drawing and cavity tools see data sheet 2.13-1023