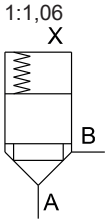
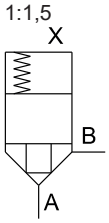
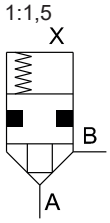
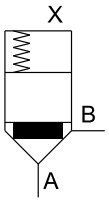
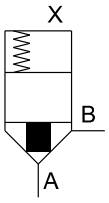
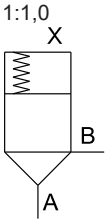
2/2-way slip-in cartridge valves
- **Q_{max} = 1450 l/min**
- **p_{max} = 630 bar**

NG 32
DIN ISO 7368

2/2-WAY FUNCTION

Area ratio A:X	1:1,06	1:1,5	1:1,5
			
Type	CSEN32-11	CSEN32-15	CLEN32-15
Execution	Standard	Standard	with seal B → X
			
Type	CDEN32-11	CDEN32-15	
Execution	with damping	with damping	

PRESSURE RELIEF

Area ratio A:X	1:1,0
	
Type	CPEN32-10
Execution	Standard

TYPE CODE

C ☐ EN32 - ☐ / ☐ / ☐ - ☐ # ☐

2/2-way slip-in cartridge valve			
Seat construction		S	
Seat construction with seal		L	
Seat construction with damping		D	
Pressure function		P	
Nominal size 32, 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	Not for type CLEN
	2.0 bar	20	
	4.0 bar	40	Not for type CLEN
Orifice in poppet spool	closed		
Sealing material	NBR		
	FKM	D1	(Viton)
Design-Index (subject to change)			

GENERAL SPECIFICATIONS

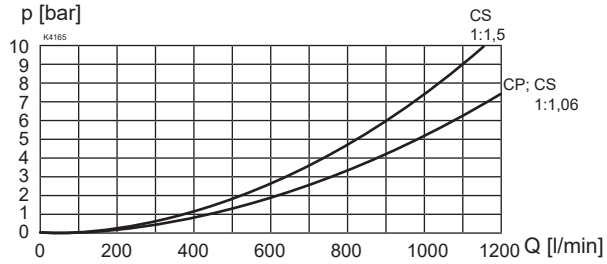
Construction	2/2-way slip-in cartridge valves
Mounting position	any
Mounting dimensions	according to DIN ISO 7368
Ambient temperature	-30…+80 °C
Weight spool	m = 0,25 kg (1:1,5)
Weight total	m = 0,93kg (1:1,5; without spring)
MTTFd	150 years

HYDRAULIC SPECIFICATIONS

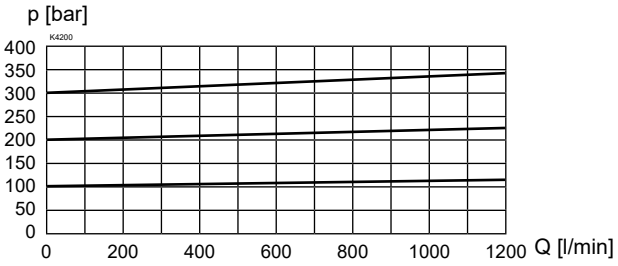
Fluid	Mineral oil, other fluid on request
Contamination efficiency	ISO 4406:1999, class 18/16/13 (Required filtration grade ß6...10≥75) refer to data sheet no. 1.0-50/2
Viscosity range	12 mm²/s...320 mm²/s
Fluid temperature	-20…+80 °C (FKM) -30…+80 °C (NBR)
Operating pressure	p_{max} = 630 bar (connections 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 cm³

CHARACTERISTICS Oil viscosity υ = 30 mm²/s

$\Delta p = f(Q)$ Pressure drop / volume flow characteristics

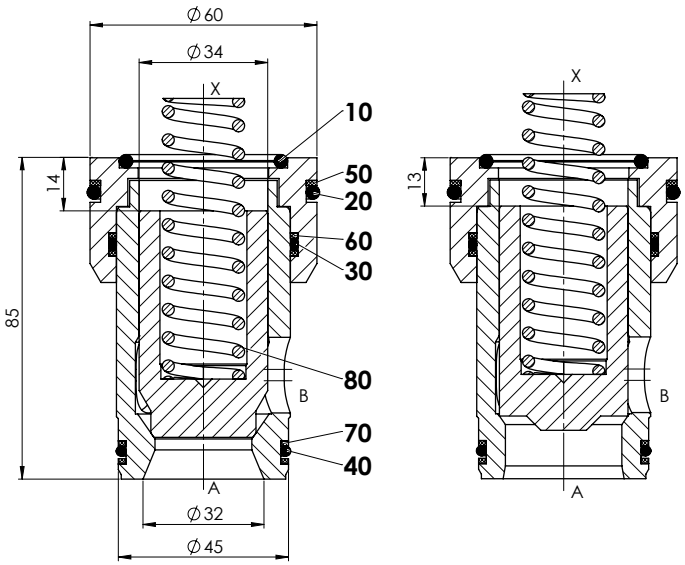


$p = f(Q)$ Pressure volume flow characteristics



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

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

Area ratio	Flow direction A to B			
1:1	0,4	0,8	1,6	3,2
1:1,06	0,4	0,9	1,7	3,4
1:1,5	0,6	1,2	2,5	4,9

Area ratio	Flow direction B to A			
1:1	-	-	-	-
1:1,06	6,3	12,5	25,1	50,1
1:1,5	1,1	2,2	4,4	8,8

Pressure spring	Article no.			
CD, CP, CS	053.5405	053.5902	053.6903	053.7410
CL	-	-	053.6904	-

PARTS LIST

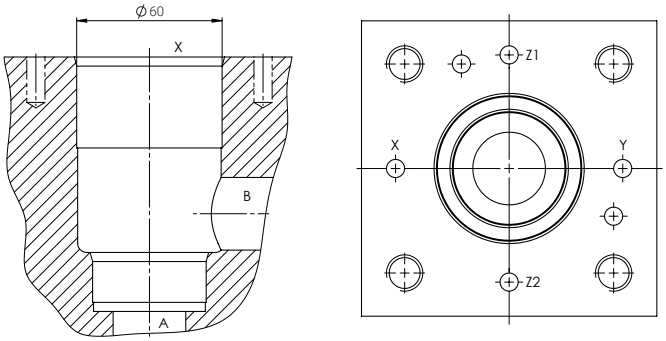
Position	Description	Seal kit
10	O-ring ID 37,70 x 3,53	•
20	O-ring ID 52,39 x 3,53	•
30	O-ring ID 45,69 x 2,62	•
40	O-ring ID 39,34 x 2,62	•
50	Backup ring rd 51,7 x 57,3 x 1,4	
60	Backup ring rd 46,0 x 50,1 x 1,4	
70	Backup ring rd 38,5 x 42,6 x 1,4	
80	Pressure spring 21,8	

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