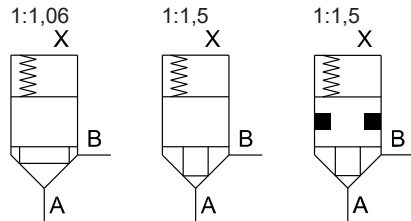


2/2-way slip-in cartridge valves

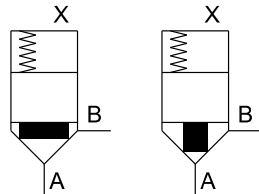
- $Q_{max} = 880 \text{ l/min}$
- $p_{max} = 630 \text{ bar}$

NG 25
 DIN ISO 7368

2/2-WAY FUNCTION

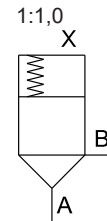
 Area ratio
 A:X

 Type
 Execution

CSEN25-11	CSEN25-15	CLEN25-15
Standard	Standard	with seal B → X


 Type
 Execution

CDEN25-11	CDEN25-15
with damping	with damping

PRESSURE RELIEF

 Area ratio
 A:X

 Type
 Execution

CPEN25-10
Standard

TYPE CODE

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 25, 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

Not for type CLEN

Orifice in poppet spool

closed

Sealing material

NBR

FKM

 D1 (Viton)

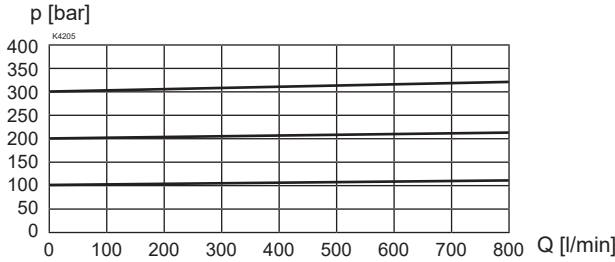
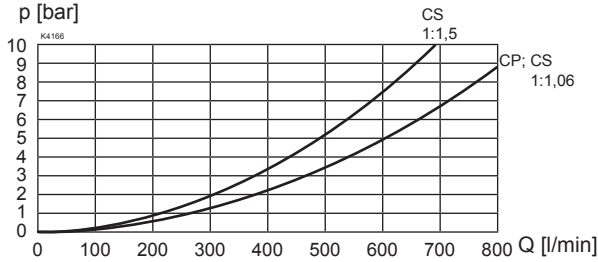
Design-Index (subject to change)

 C EN25 - / / - #
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 = 0,12 kg (1:1,5)
Weight total	m = 0,44 kg (1:1,5; without spring)
MTTFd	150 years

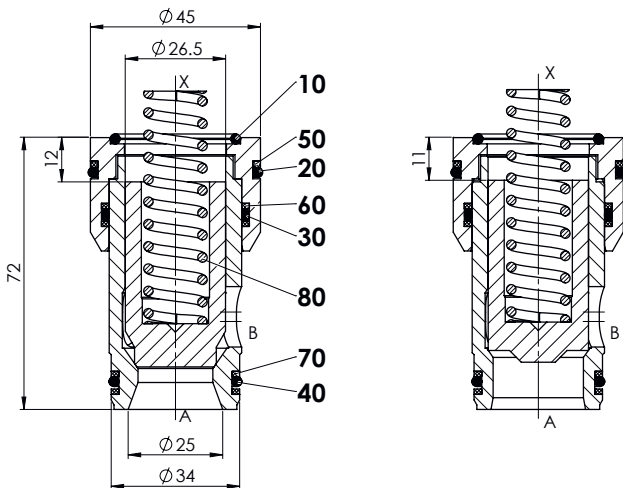
HYDRAULIC SPECIFICATIONS

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	$Q_{max} = 880 \text{ l/min}$ at v = 30 m/s
Pilot oil volume	$Q_{st} = 6,5 \text{ cm}^3$

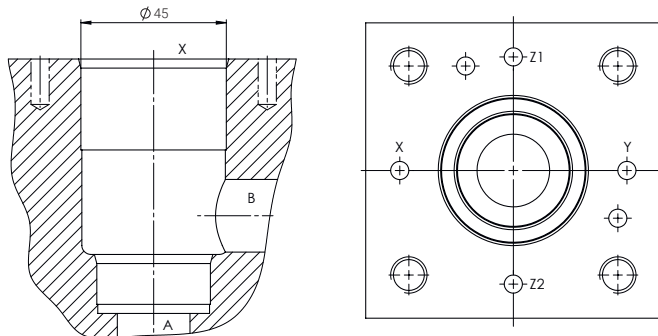

CHARACTERISTICS Oil viscosity $\nu = 30 \text{ mm}^2/\text{s}$
 $\Delta p = f(Q)$ Pressure drop / volume flow characteristics

DIMENSIONS

CSEN25-15

CPEN25-10


HYDRAULIC CONNECTION

Cavity drawing according to ISO 7368



Important! For detailed cavity drawing and cavity tools see data sheet 2.13-1022

CHARACTERISTICS

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

Area ratio	Flow direction A to B			
	1:1	0,4	0,8	1,6
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	6,1	12,3	24,5	49,1
1:1,5	1,1	2,2	4,4	8,7

Pressure spring	Article no.			
	CS	053.3804	053.4804	053.5806
CLEN	-	053.4805	053.5306	-

PARTS LIST

Position	Description	Seal kit
10	O-ring ID 29,82 x 2,62	•
20	O-ring ID 39,34 x 2,62	•
30	O-ring ID 34,59 x 2,62	•
40	O-ring ID 28,24 x 2,62	•
50	Backup ring rd 38,5 x 42,6 x 1,4	
60	Backup ring rd 35,0 x 39,1 x 1,4	
70	Backup ring rd 27,6 x 31,7 x 1,4	
80	Pressure spring 16,8	

SEAL KIT

251.7410	Seal kit C.E.25	NBR
251.7411	Seal kit C.E.25	VITON

INSTALLATION NOTES

Mounting type	Slip-in cartridge
Mounting position	Any, preferably horizontal
Dismounting	Dismounting tool DW-C.E.25 Article no. 983.3014


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.