

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	1:1,06 X	1:1,5 X	1:1,5 X
Type Execution	CSEN25-11 Standard	CSEN25-15 Standard	CLEN25-15 with seal B → X
Type Execution	CDEN25-11 with damping	CDEN25-15 with damping	

PRESSURE RELIEF

Area ratio A:X	1:1,0 X
Type Execution	CPEN25-10 Standard

TYPE CODE

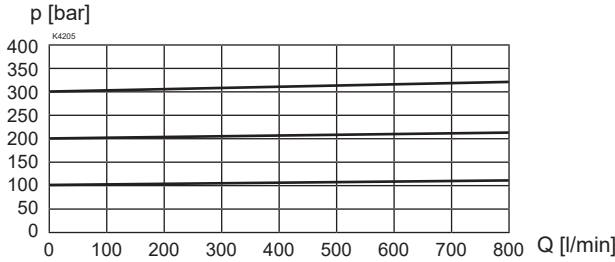
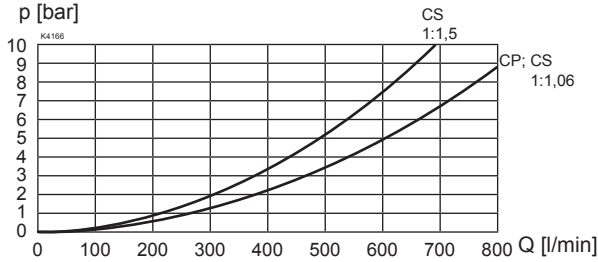
2/2-way slip-in cartridge valve	C	<input type="checkbox"/>	EN25	-	<input type="checkbox"/>	/	<input type="checkbox"/>	/	<input type="checkbox"/>	/	<input type="checkbox"/>	-	<input type="checkbox"/>	#	<input type="checkbox"/>
Seat construction	S														
Seat construction with seal	L														
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)															

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

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

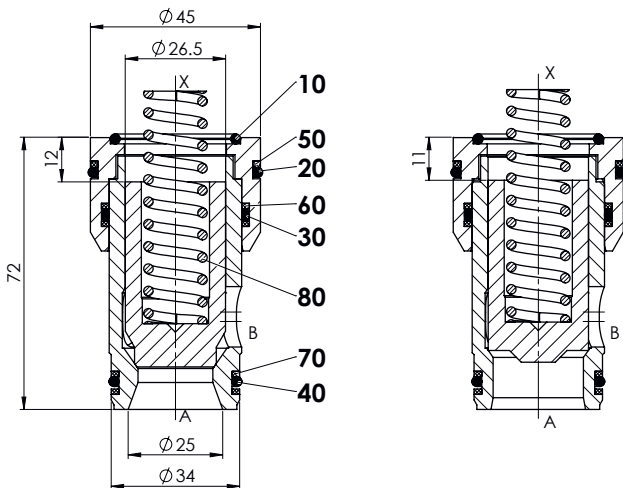
Area ratio	Flow direction B to A			
	1:1	-	-	-
1:1,06	6,1	12,3	24,5	49,1
1:1,5	1,1	2,2	4,4	8,7

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

DIMENSIONS

CSEN25-15

CPEN25-10


PARTS LIST

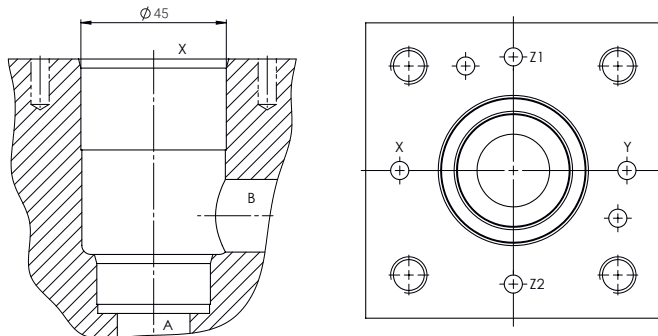
Position	Description	Seal kit
10	O-ring ID 29,82 x 2,62	•
20	O-ring ID 39,34 x 2,62	•
30	O-ring ID 34,59 x 2,62	•
40	O-ring ID 28,24 x 2,62	•
50	Backup ring rd 38,5 x 42,6 x 1,4	
60	Backup ring rd 35,0 x 39,1 x 1,4	
70	Backup ring rd 27,6 x 31,7 x 1,4	
80	Pressure spring 16,8	

SEAL KIT


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


HYDRAULIC CONNECTION

Cavity drawing according to ISO 7368


INSTALLATION NOTES

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


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


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.