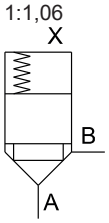
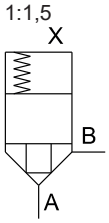
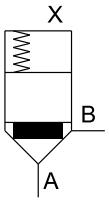
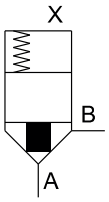
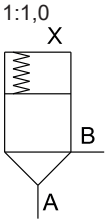
2/2-way slip-in cartridge valves
- Q_{max} = 2260 l/min
- p_{max} = 630 bar

NG 40
DIN ISO 7368

2/2-WAY FUNCTION

Area ratio A:X	1:1,06	1:1,5
		
Type	CSEN40-11	CSEN40-15
Execution	Standard	Standard
		
Type	CDEN40-11	CDEN40-15
Execution	with damping	with damping

PRESSURE RELIEF

Area ratio A:X	1:1,0
	
Type	CPEN40-10
Execution	Standard

TYPE CODE

C ☐ EN40 - ☐ / ☐ / ☐ - ☐ # ☐

2/2-way slip-in cartridge valve			
Seat construction		S	
Seat construction with damping		D	
Pressure function		P	
Nominal size 40, 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	
Nominal	0.5 bar	05	
	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

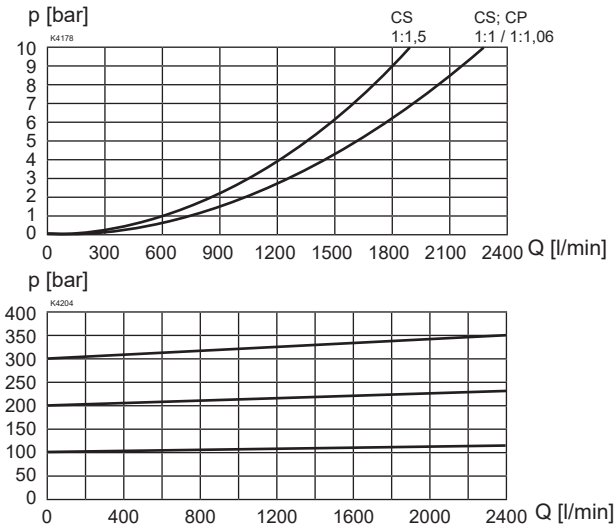
Construction	2/2-way slip-in cartridge valves
Mounting position	any
Mounting dimensions	according to DIN ISO 7368
Ambient temperature	-30…+80 °C
Weight spool	m = 0,500 kg (1:1,5)
Weight total	m = 1,742 kg (1:1,5; without spring)
MTTFd	150 years

HYDRAULIC SPECIFICATIONS

Fluid	Mineral oil, other fluid on request
Contamination efficiency	ISO 4406:1999, class 18/16/13 (Required filtration grade 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} = 2260 l/min at v = 30 m/s
Pilot oil volume	Q_{st} = 25,7 cm³ Q_{st} = 21,1 cm³ (Pressure function)

CHARACTERISTICS Oil viscosity υ = 30 mm²/s

Δp = f (Q) Pressure drop / volume flow characteristics



CHARACTERISTICS

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

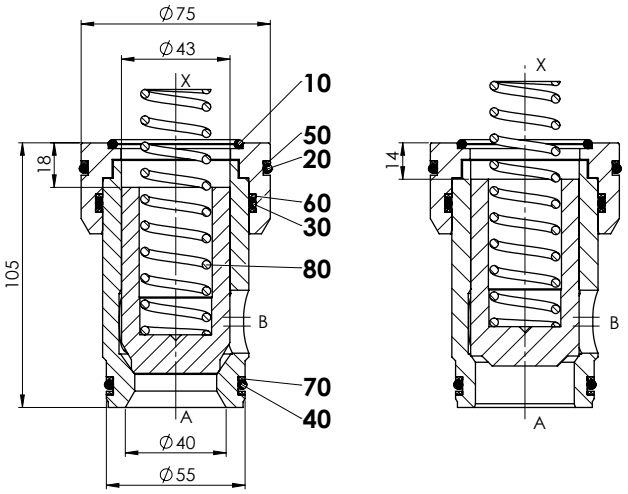
Area ratio	Flow direction A to B			
1:1	0,4	0,8	1,6	3,2
1:1,06	0,4	0,9	1,7	3,4
1:1,5	0,6	1,2	2,5	4,9

Area ratio	Flow direction B to A			
1:1	-	-	-	-
1:1,06	6,6	13,2	26,4	52,9
1:1,5	1,1	2,2	4,4	8,7

Pressure spring	Article no.			
CD, CP, CS	053.6412	053.7416	053.7415	053.8406

DIMENSIONS

CSEN40-15 CPEN40-10



PARTS LIST

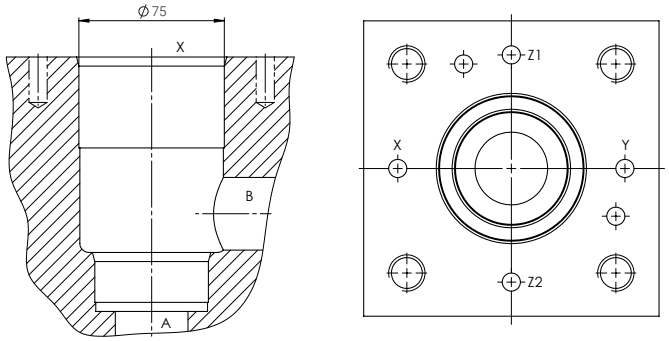
Position	Description	Seal kit
10	O-ring ID 47,22 x 3,53	•
20	O-ring ID 66,27 x 3,53	•
30	O-ring ID 56,74 x 3,53	•
40	O-ring ID 47,22 x 3,53	•
50	Backup ring rd 66,0 x 71,6 x 1,4	
60	Backup ring rd 58,0 x 63,6 x 1,4	
70	Backup ring rd 46,5 x 52,1 x 1,4	
80	Pressure spring 27,8	

SEAL KIT

251.8610	Seal kit C.E.40	NBR
251.8611	Seal kit C.E.40	VITON

HYDRAULIC CONNECTION

Cavity drawing according to ISO 7368



Important! For detailed cavity drawing and cavity tools see data sheet 2.13-1024

INSTALLATION NOTES

Mounting type	Slip-in cartridge
Mounting position	Any, preferably horizontal
Dismounting	Dismounting tool DW-C.E.40 Article no. 983.3012

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.