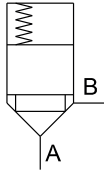
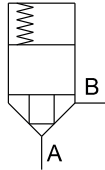
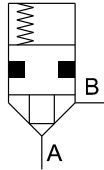
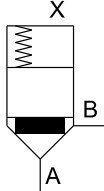
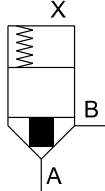


2/2-way slip-in cartridge valves

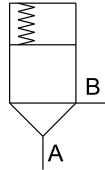
- $Q_{max} = 2260 \text{ l/min}$
- $p_{max} = 630 \text{ bar}$

NG 40
 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	CSEN40-11 Standard	CSEN40-15 Standard	CLEN40-15 with seal B → X
			
Type Execution	CDEN40-11 with damping	CDEN40-15 with damping	

PRESSURE RELIEF

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

TYPE CODE

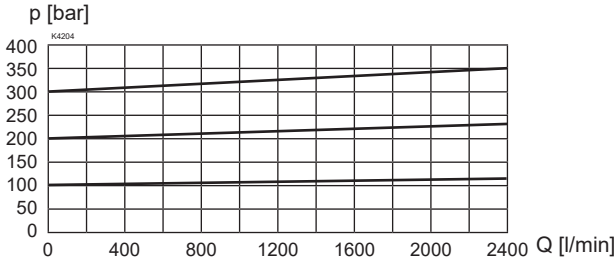
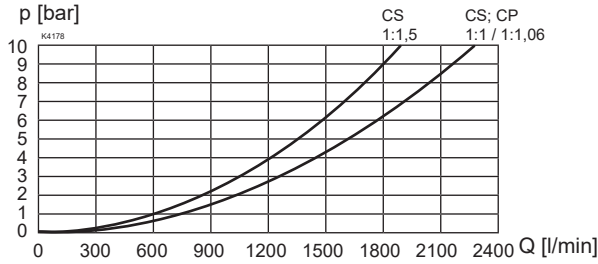
2/2-way slip-in cartridge valve		C	<input type="checkbox"/>	EN40	-	<input type="checkbox"/>	/	<input type="checkbox"/>	/	<input type="checkbox"/>	-	<input type="checkbox"/>	#	<input type="checkbox"/>
Seat construction		S												
Seat construction with seal		L												
Seat construction with damping		D												
Pressure function		P												
Nominal size 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											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											
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 $\beta_{6...10} \geq 75$) 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	$Q_{max} = 2260 \text{ l/min}$ at v = 30 m/s
Pilot oil volume	$Q_{st} = 25,7 \text{ cm}^3$ $Q_{st} = 21,1 \text{ cm}^3$ (Pressure function)

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

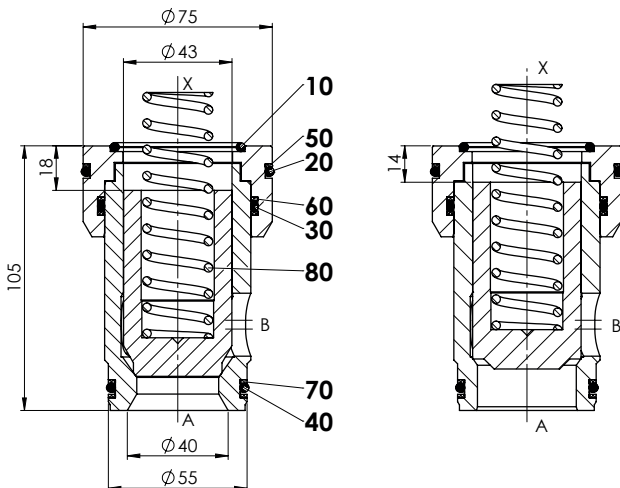
Area ratio	Flow direction B to A			
	1:1	-	-	-
1:1,06	6,6	13,2	26,4	52,9
1:1,5	1,1	2,2	4,4	8,7

Pressure spring	Article no.			
		053.6412	053.7416	053.7415

DIMENSIONS

CSEN40-15

CPEN40-10


PARTS LIST

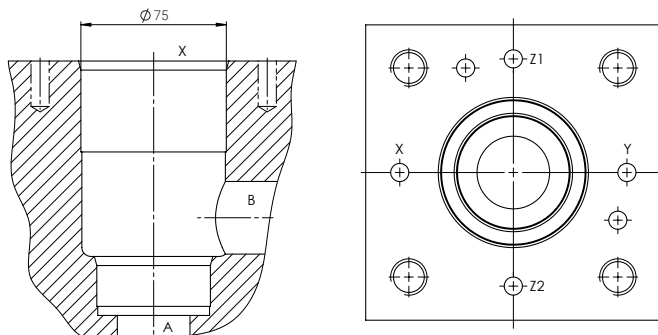
Position	Description	Seal kit
10	O-ring ID 47,22 x 3,53	•
20	O-ring ID 66,27 x 3,53	•
30	O-ring ID 56,74 x 3,53	•
40	O-ring ID 47,22 x 3,53	•
50	Backup ring rd 66,0 x 71,6 x 1,4	
60	Backup ring rd 58,0 x 63,6 x 1,4	
70	Backup ring rd 46,5 x 52,1 x 1,4	
80	Pressure spring 27,8	

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


INSTALLATION NOTES

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

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



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.