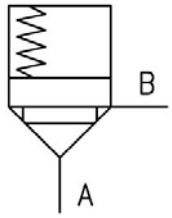
LOGIC CARTRIDGE VALVE

Characteristics

TYPE	SIZE	AREA RATIO
ICL- 06-****	DN 6	1 : 1 ; 1 : 1.5
ICL- 10-****	DN 10	1 : 1.1
ICL- 16-****	DN 16	1 : 1.1 1 : 2
ICL- 25-****	DN 25	
ICL- 32-****	DN 32	

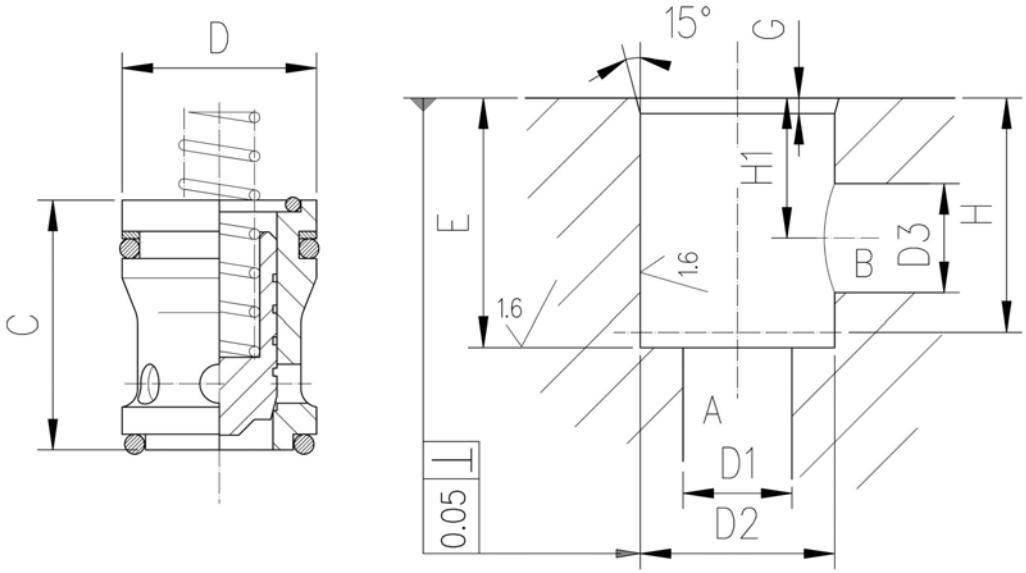
Symbol



Description

They are 2-way logic cartridge valves that slip into a drilled manifold and are used as directional control valves (1:2 poppet – area ratio), pressure control and flow control valves.

Dimensions



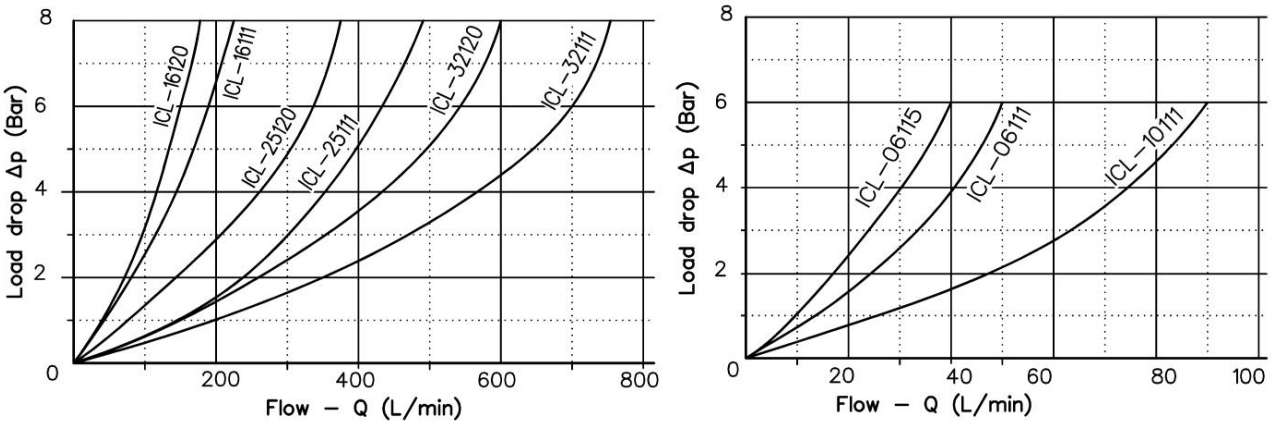
TYPE	C	D	D1 max.	D2 H6	D3 max.	E -0 +0.05	G	H Bored part	H1
ICL- 06 -****	20	16	10	16	9	20	1.5	19	12.5
ICL- 10 -****	32	25	17	25	18	32	2	30.5	18
ICL- 16 -****	42	32	23	32	25	42	2	40.5	24
ICL- 25 -****	52	40	28	40	33	52	2	50	29
ICL- 32 -****	70	60	42	60	46	70	3	68	38.5

Installation rules

- The logic cartridge valves type ICL can be mounted in any position
- Fluid to be used: hydraulic oil in compliance with DIN 51524 rules, viscosity between 30 and 100 mm^2/s (cSt) at 40°C
- Recommended filtration: 25µ
- Hydraulic fluid temperature: from -20° to +75°C

Diagram

A → B



Ordering code

ICL - * * - * / * / ***

Seals — **V** = (otherwise omit it)

Type of function
- **R** = Valve used as unidirectional check (on request)
- **E** = Valve used as cut-off valve (only for 1:1,1 ratio)

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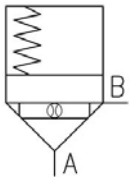

Opening pressure

The complete range is not available for all versions

in bar	A→B	B→A	Ratio
A →	0.5	5	1:1,1
B →	1	10	
C →	3	30	
A →	0.6	0.6	1:2
C →	2	2	
D →	5	5	

Poppet-area ratio
- **110** = 1:1,0 (ICL-06)
- **111** = 1:1,1 (ICL-10 ;ICL-16 ; ICL-25 ; ICL-32)
- **115** = 1:1,5 (ICL-06)
- **120** = 1:2,0 (ICL-16 ; ICL-25 ; ICL-32)

Conventional size
- **06** = DN 06
- **10** = DN 10
- **16** = DN 16
- **25** = DN 25
- **32** = DN 32

Logic cartridge valve