

CARTRIDGE VALVES

2/2 LOGIC ELEMENTS ACCORDING TO ISO 7368 (DIN 24342)

ORDERING CODE

KEL	Logic element 2/2
**	16 = NG16 25 = NG25
*	Function: see table 1 Areas ratio: U = 1 : 1 S = 12.5 : 1 B = 2 : 1 (for version with drilled poppet see CF variant) F = 2 : 1 R = 2 : 1
*	Opening pressure (bar) (Tab.1 pressure values) (Tab.2 spring's colour and code)
**	Calibrated orifices: 00 = blind 08 = 0.8 mm 09 = 0.9 mm 10 = 1.0 mm 12 = 1.2 mm 14 = 1.4 mm
**	00 = No variant V1 = Viton CF = With drilled poppet only for KEL**B
2	Serial No.

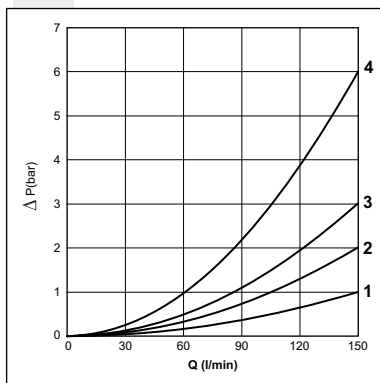
TAB. 1 - SYMBOL, FUNCTION, AREA RATIO AND OPENING PRESSURE

Function	Symbol	Area ratio	Code	Opening pressure (bar)													
				A→B	B→A												
Directional (U) (normally used for relief valve)		A1 : A3 1 : 1	KEL**UL00 KEL**UM00 KEL**UH00 KEL**UJ00	L = 0.3 M = 1.6 H = 4 J = 9													
Directional (U) with orifice		A1 : A3 1 : 1	KEL**UL** KEL**UM** KEL**UH**	L = 0.3 M = 1.6 H = 4													
Directional (S)		A1 : A2 12.5 : 1	KEL**SL00 KEL**SM00 KEL**SH00	L = 0.3 M = 0.6 H = 1.5	L = 4 M = 8 H = 20												
Directional (S) with orifice		A1 : A2 12.5 : 1	KEL**SL** KEL**SM** KEL**SH**	L = 0.3 M = 0.6 H = 1.5	L = 4 M = 8 H = 20												
Directional (B) (normally used for check valve)		A1 : A2 2 : 1	KEL**BL00 KEL**BM00 KEL**BH00	L = 0.5 M = 1 H = 2.5	L = 1 M = 2 H = 5												
Flow control (F)		A1 : A2 2 : 1	KEL**FL** KEL**FM** KEL**FH**	L = 0.5 M = 1 H = 2.5	L = 1 M = 2 H = 5												
With sensitized cover (R)		A1 : A2 2 : 1	KEL**RL00 KEL**RM00 KEL**RH00 KEL**RJ00	<table border="1"> <thead> <tr> <th colspan="2">A → B</th> </tr> <tr> <th>NG16</th> <th>NG25</th> </tr> </thead> <tbody> <tr> <td>L = 0.7</td> <td>L = 0.6</td> </tr> <tr> <td>M = 1.5</td> <td>M = 1.5</td> </tr> <tr> <td>H = 4</td> <td>H = 3.5</td> </tr> <tr> <td></td> <td>J = 9</td> </tr> </tbody> </table>		A → B		NG16	NG25	L = 0.7	L = 0.6	M = 1.5	M = 1.5	H = 4	H = 3.5		J = 9
A → B																	
NG16	NG25																
L = 0.7	L = 0.6																
M = 1.5	M = 1.5																
H = 4	H = 3.5																
	J = 9																

TAB. 2 - SPRING'S COLOUR AND CODE

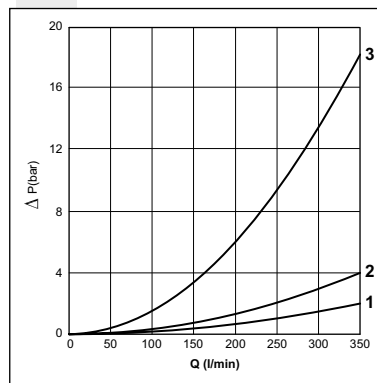
Spring type	U		S		B-F		R	
	NG16	NG25	NG16	NG25	NG16	NG25	NG16	NG25
Cod. L	without colour	red	without colour	red	without colour	red	without colour	red
Cod. M	green	yellow	red	green	red	green	red	green
Cod. H	blue	blue	yellow	yellow	green	yellow	green	yellow
Cod. J		without colour						blue

NG 16 PRESSURE DROP



- 1 = KEL16U
KEL16S
- 2 = KEL16B
- 3 = KEL16R
- 4 = KEL16F

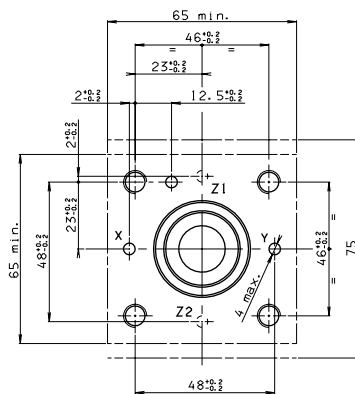
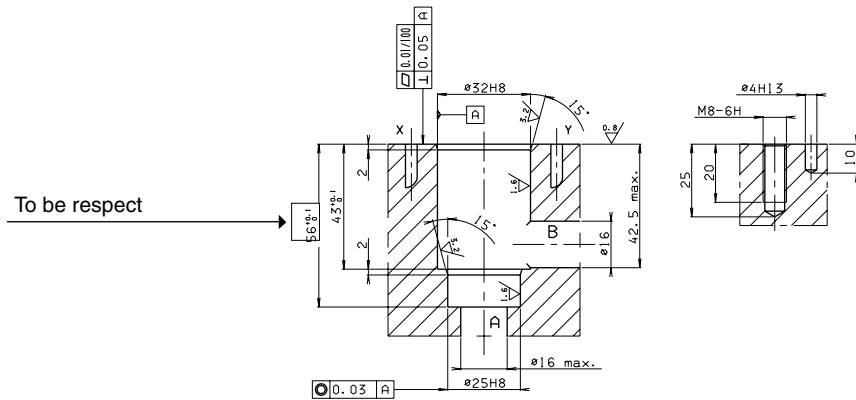
NG25 PRESSURE DROP



- 1 = KEL25U
KEL25B
KEL25R
- 2 = KEL25S
- 3 = KEL25F

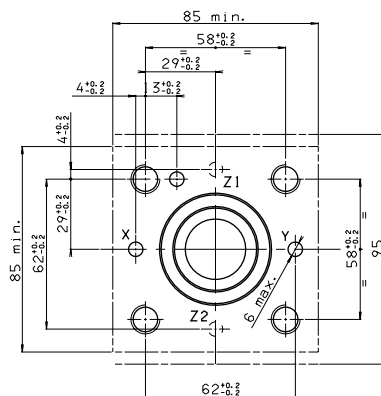
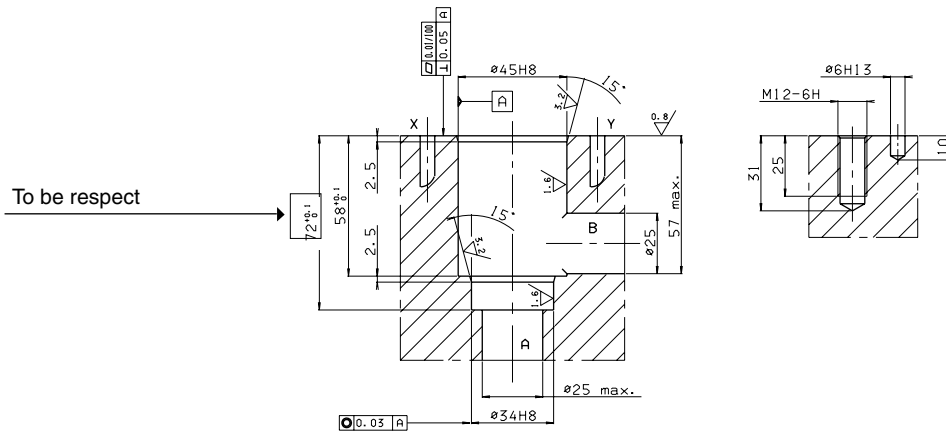
The fluid used is a mineral oil with a viscosity of 46 mm²/s at 40°C. The tests were performed at a fluid temperature of 50°C.

OVERALL DIMENSIONS OF TWO-WAY VALVE SEAT ISO 7368/BA-06-2-A NG16 (DIN 24342)



- X = piloting
- Y = draining
- Z = additional piloting
- Z1 = preferential piloting
- Z2 = preferential draining

OVERALL DIMENSIONS OF TWO-WAY VALVE SEAT ISO 7368/BB-08-2-A NG25 (DIN 24342)



- X = piloting
- Y = draining
- Z = additional piloting
- Z1 = preferential piloting
- Z2 = preferential draining