

OVERFLOW VALVE (By-pass valve) OVF40

DESCRIPTION

The OVF40 series overflow (by-pass) valves are single seated, two-way body constructed with in-line straight connections. The valve plug opens against outside regulating spring when the pre-selected differential pressure on the valve rises.

MAIN FEATURES

Stainless steel bellows sealed.
Valve top flange permanently attached to the body, removal is unnecessary for replacing the spring.
Metal to metal sealing as standard.

OPTIONS: Soft sealing and stellite seat and plug.

USE: Diathermic heat transfer oil and other fluids compatible with the construction.

AVAILABLE MODELS: OVF40S; OVF40I.

VALVE SIZES: DN 15 to DN 80.

CONNECTIONS: Flanged EN1092-1 PN16 / PN40

STEM SEALING: Stainless steel bellows.

PLUG CHARACT.: PL – Linear.

PLUG DESIGN: V-Ported.

PORT: Full port as standard.



CE MARKING – GROUP 2 (PED – European Directive)		
PN 16	PN 40	Category
DN 15 to DN 50	DN 15 to DN 32	SEP
DN 65 to DN 80	DN 40 to DN 80	1 (CE Marked)

OPENING PRESSURE			
DN 15 to 32	DN 40	DN 50	DN 65 to 80
0,5 – 5 bar	0,5 – 6 bar	0,5 – 5 bar	1 – 4 bar
2 – 8 bar	–	2 – 7 bar	–

BODY LIMITING CONDITIONS							
OVF40S – PN16		OVF40I – PN16		OVF40S – PN40		OVF40I – PN40	
ALLOW. PRESS.	RELATED TEMP.	ALLOW. PRESS.	RELATED TEMP.	ALLOW. PRESS.	RELATED TEMP.	ALLOW. PRESS.	RELATED TEMP.
16 bar	-10 / 50 °C	16 bar	-10 / 50 °C	40 bar	-10 / 50 °C	40 bar	-10 / 50 °C
13,3 bar	200 °C	13,4 bar	200 °C	33,3 bar	200 °C	33,7 bar	200 °C
12,1 bar	250 °C	12,7 bar	250 °C	27,6 bar	300 °C	29,7 bar	300 °C
11 bar	300 °C	11,8 bar	300 °C	25,7 bar	350 °C	28,5 bar	350 °C
10,2 bar	350 °C	11,4 bar	350 °C	23,8 bar	400 °C	27,4 bar	400 °C

Remarks: Maximum temperature limited to the valve packing selected;

Valves with soft seat, maximum allowable temperature: 200 °C;

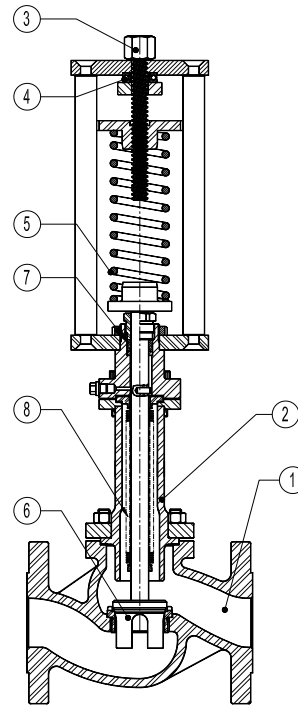
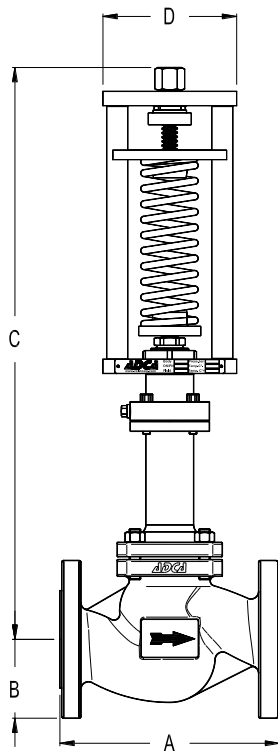
* Rating according to EN 1092-1:2018.

DIMENSIONS (mm)				
SIZE DN	A	B	C	D
15	130	48	480	140
20	150	53	480	140
25	160	58	485	140
32	180	70	495	140
40	200	75	505	140
50	230	83	570	140
65	290	93	843	155
80	310	100	848	155

FLOW RATE COEFFICIENTS								
SIZE	DN 15	DN 20	DN 25	DN 32	DN 40	DN 50	DN 65	DN 80
Kvs	5,2	7,2	9,4	15,4	22,2	40,1	63,4	89,7

Kvs in m³/h, see IS PV10.00 E; For conversion Kvs = Cv (US) x 0,855.

VALVE STROKE								
SIZE	DN 15	DN 20	DN 25	DN 32	DN 40	DN 50	DN 65	DN 80
STROKE	20	20	20	20	20	20	30	30



MATERIALS			
POS. N°	DESIGNATION	MATERIAL OVF40S	MATERIAL OVF40I
1	Valve body	ASTM A216WCB / 1.0619	CF8M / 1.4408
2	Bonnet	CF8 / 1.4308	CF8 / 1.4308
3	Adjusting hut	Steel 5	Steel 5
4	Bearing	Steel	Steel
5	* Spring	AISI 301 / 1.4310	AISI 301 / 1.4310
6	Trim	Stainless steel	Stainless steel
7	* Standard packing	Graphite	Graphite
8	* Bellows	AISI 316Ti / 1.4571	AISI 316Ti / 1.4571

* Available spare parts.