

**OVERFLOW VALVE (BYPASS VALVE)  
 OVF40**

**DESCRIPTION**

The OVF40 series overflow (by-pass) valves are single seated, two-way body constructed with inline 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 – carbon steel.
- OVF40I – stainless steel.

**SIZES:** DN 15 to DN 80.

**CONNECTIONS:** Flanged EN 1092-1 PN 16 or PN 40.

**PLUG CHARACT.:** PL – Linear.

**PLUG DESIGN:** V-Ported.

**PORT:** Full port as standard.



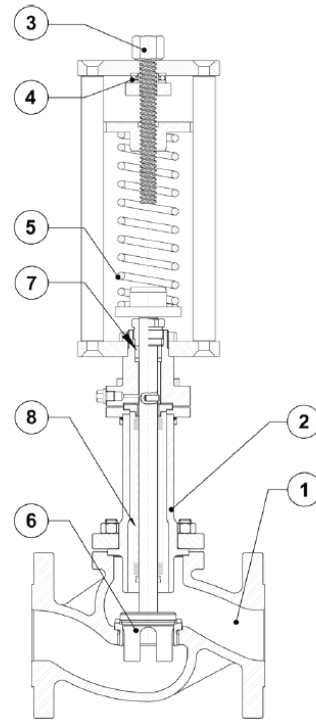
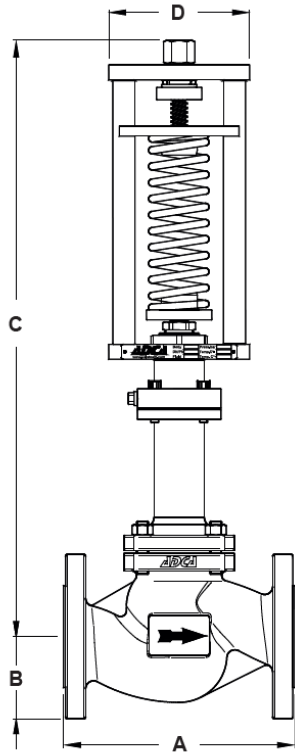
CE MARKING – GROUP 2 (PED – European Directive)		
PN 16	PN 40	Category
DN 15 to 50	DN 15 to 32	SEP
DN 65 to 80	DN 40 to 80	1 (CE marked)

OPENING PRESSURES			
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				OVF40I			
FLANGED PN 16		FLANGED PN 40		FLANGED PN 16		FLANGED PN 40	
ALLOWABLE PRESSURE	RELATED TEMPERATURE	ALLOWABLE PRESSURE	RELATED TEMPERATURE	ALLOWABLE PRESSURE	RELATED TEMPERATURE	ALLOWABLE PRESSURE	RELATED TEMPERATURE
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

\* Rating according to EN 1092-1:2018.

Remarks: Max. temperature limited to the valve packing selected. Valves with soft sealing, max. allowable temperature: 200 °C.



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

MATERIALS			
POS. N°	DESIGNATION	OVF40S	OVF40I
1	Valve body	A216 WCB / 1.0619	A351 CF8M / 1.4408
2	Bonnet	A351 CF8 / 1.4308	A351 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.

FLOW RATE COEFFICIENTS (m³/h)								
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

VALVE STROKE (mm)								
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