

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.



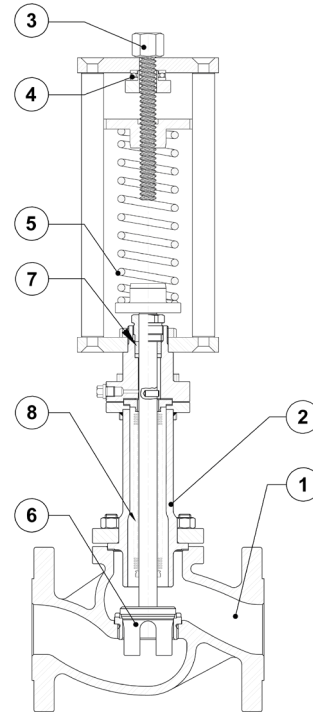
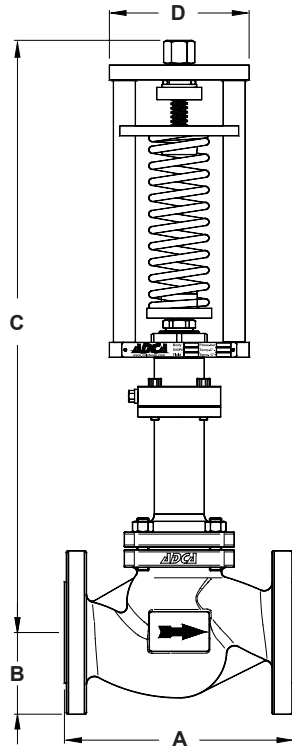
| CE MARKING – GROUP 2 (PED – European Directive) | | |
|---|-------------|---------------|
| PN 16 | PN 40 | Category |
| DN 15 to 50 | DN 15 to 32 | SEP |
| DN 65 to 80 | DN 40 to 80 | 1 (CE marked) |

| 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 |