

## hp-Overflow valves with thread connection

2.1

### Type of actuation E: with adjustment screw

For lubricating and hydraulic oils and many other self-lubricating non-corrosive fluids. For heating oils EL, L, M, S and ES, coal tar oils, kerosene.

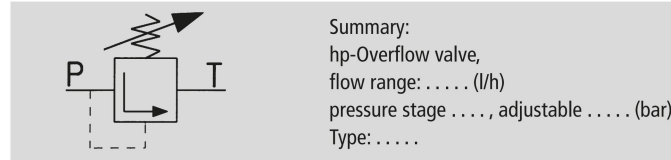
Maximum temperature of fluid medium: 150 °C.

Material: casting of hydraulic cast iron (GGG 40); certificate 3.1 on request; piston, valve tip, spring of hardened steel.

**Function: Directly-controlled, spring-loaded overflow valve for maintaining a set operating pressure or a set maximum pressure in a pressure pipe.**



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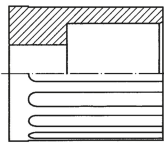
| Model                              | Possible pressure stages for each model                                                  | Connection thread <sup>2)</sup> | Flow range <sup>3)</sup> l/h | Viscosity range cSt | Item No. |
|------------------------------------|------------------------------------------------------------------------------------------|---------------------------------|------------------------------|---------------------|----------|
| B - P - E / _ G 1/4" <sup>1)</sup> | 0 = 0.5 - 1.5 bar<br>1 = 1 - 4 bar<br>2 = 2 - 9 bar<br>3 = 6 - 25 bar<br>4 = 15 - 40 bar | G 1/4"                          | 6 - 120                      | 2.8 to 480          | 0210000  |
| B - P - E / _                      |                                                                                          | G 3/8"                          | 15 - 160                     | 2.8 to 480          | 0210002  |
| B - G - E / _                      |                                                                                          | G 1/2"                          | 30 - 600                     | 2.8 to 480          | 0210003  |
| B - GH - E / _ <sup>4)</sup>       |                                                                                          | G 3/4"                          | 100 - 2000                   | 2.8 to 480          | 0210004  |
| B - GHG - E / _                    |                                                                                          | G 1"                            | 300 - 6000                   | 2.8 to 480          | 0210005  |
| B - GHG - E / _ G 1 1/4"           |                                                                                          | G 1 1/4"                        | 500 - 10000                  | 2.8 to 480          | 0210006  |

<sup>1)</sup> Not pressure stage 0

<sup>2)</sup> Pipe thread G...A DIN ISO 228-1

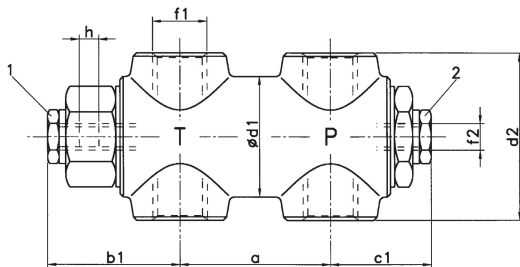
<sup>3)</sup> For curve see page 31

<sup>4)</sup> Not pressure stage 0, for pressure stage 1: 0.5 - 3.5 bar, all further pressure stages according to table



For very dirty heavy oils, the overflow valves may be fitted or retrofitted with a piston axial nut (heavy oil piston) at an additional cost.

| Model              | Item No. | Ø for piston and hole |
|--------------------|----------|-----------------------|
| BP                 | 0840750  | 20/2.5                |
| BG/FDR 15          | 0840752  | 20/5.0                |
| BG/FDR 15          | 0840754  | 20/7.5                |
| BGH/FDR 20         | 0840756  | 30/10                 |
| BGHG 1"/FDR 25     | 0840758  | 35/15                 |
| BGHG 1 1/4"/FDR 32 | 0840760  | 35/25                 |
| FDR 50             | 0840762  | 50/30                 |



### Model with regulating screw

After removing cover screw 1 on the regulating screw, the pressure is increased by turning clockwise with a screwdriver or with an allen key. It is decreased by turning counterclockwise.

### Size table

| Model        | a  | b1   | c1 | d1 | d2 | f1       | max. pipe | NW | f2     | Adjustment path h at pressure stage |    |   |   |
|--------------|----|------|----|----|----|----------|-----------|----|--------|-------------------------------------|----|---|---|
|              |    |      |    |    |    |          |           |    |        | 0 + 1                               | 2  | 3 | 4 |
| P - 1/4"     | 55 | 65   | 37 | 36 | 52 | G 1/4"   | 10 x 1    | 8  | G 1/8" | 15                                  | 12 | 8 | 7 |
| P            | 55 | 65   | 37 | 36 | 52 | G 3/8"   | 12 x 1    | 10 | G 1/8" | 15                                  | 12 | 8 | 7 |
| G            | 55 | 65   | 37 | 36 | 52 | G 1/2"   | 18 x 1.5  | 15 | G 1/8" | 15                                  | 12 | 8 | 7 |
| GH           | 63 | 65   | 43 | 50 | 70 | G 3/4"   | 22 x 1.5  | 20 | G 1/4" | 15                                  | 10 | 8 | 5 |
| GHG          | 80 | 62.5 | 56 | 56 | 86 | G 1"     | 28 x 1.5  | 25 | G 1/4" | 20                                  | 17 | 9 | 6 |
| GHG - 1 1/4" | 80 | 62.5 | 56 | 56 | 86 | G 1 1/4" | 35 x 2    | 30 | G 1/4" | 20                                  | 17 | 9 | 6 |