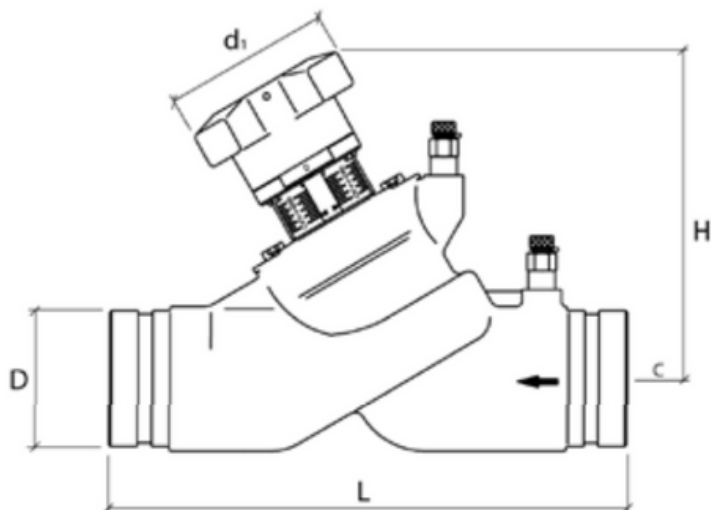




**Dimensions in Inches**

| Size      | Item no.  | Weight     | L    | H    | D    | d1   |
|-----------|-----------|------------|------|------|------|------|
| DN65 2 ½" | 106 30 51 | 19.6 lbs.  | 11.4 | 7.4  | 2.9  | 4.3  |
| DN80 3"   | 106 30 52 | 27.8 lbs.  | 12.2 | 8.0  | 3.5  | 4.3  |
| DN100 4"  | 106 30 53 | 45.2 lbs.  | 13.8 | 9.45 | 4.5  | 6.3  |
| DN125 5"  | 106 30 54 | 70.0 lbs.  | 15.8 | 11.1 | 5.6  | 6.3  |
| DN150 6"  | 106 30 55 | 95.7 lbs.  | 18.9 | 11.2 | 6.6  | 6.3  |
| DN200 8"  | 106 30 56 | 255.2 lbs. | 23.6 | 18.4 | 8.6  | 11.8 |
| DN250 10" | 106 30 57 | 377.3 lbs. | 28.7 | 18.9 | 10.8 | 11.8 |
| DN300 12" | 106 30 58 | 520.3 lbs. | 33.5 | 20.3 | 12.9 | 11.8 |

#### Installation Notes

When installing the valves, it is to be observed that the direction of flow conforms with the arrow on the valve body and that the valve is installed with a minimum of 3 D (3 x nominal pipe diameter) of straight pipe at the valve inlet and of 2 D (2 x nominal pipe diameter) of straight pipe at the valve outlet.

The double regulating and commissioning valves may be installed in either the supply or the return pipe.



#### Product Specification

Oventrop double regulating and commissioning valves "Hydrocontrol VGC" are installed in the pipework of central hot water heating and cooling systems and serve to achieve a hydronic balance between the various circuits of the system.

The balance is achieved by a presetting with memory position. The calculated flow rate or pressure loss for each individual pipe can be preset centrally and regulated precisely. The required values of presetting can be obtained from the flow charts. All intermediate values are infinitely adjustable. The selected presetting can be read off two scales. The Oventrop double regulating and commissioning valves have two threaded ports which are equipped with the pressure test points for measuring the differential pressure.

#### Specifications:

Maximum working temperature: 300°F  
 Maximum working pressure: 362 psi  
 Temperature range: 15°F to 300°F  
 Measuring Accuracy: +/- 5%

Groove connections for couplings.

Valve bodies manufactured from cast iron to ASME/ANSI B16.5 (ASTM A48(2½"-6"), A536(8"-12")).

Bonnet, stem and disc made of bronze/dezincification resistant brass.  
 Disc with PTFE seal.  
 Double EPDM O-ring stem seal.

**"Hydrocontrol VGC" – Grooved Connection—¾" to 12" valves  
Cv Values for Various Handwheel Settings**

| Presetting or Handwheel Turns | 2 ½"   | 3"     | 4"     | 5"     | 6"     | 8"     | 10"     | 12"     |
|-------------------------------|--------|--------|--------|--------|--------|--------|---------|---------|
| 0.5                           | 2.21   | 2.67   | 3.96   | 6.40   | 6.50   | -      | -       | -       |
| 1.0                           | 4.19   | 5.12   | 9.94   | 14.48  | 17.70  | -      | -       | -       |
| 1.5                           | 6.51   | 8.14   | 16.28  | 22.56  | 29.37  | -      | -       | -       |
| 2.0                           | 11.63  | 13.78  | 21.51  | 30.93  | 41.00  | 56.86  | 81.4    | 232.56  |
| 2.5                           | 17.44  | 21.69  | 27.91  | 40.41  | 62.70  | 72.09  | 98.84   | 290.70  |
| 3.0                           | 27.91  | 30.35  | 41.16  | 55.52  | 110.49 | 97.67  | 127.91  | 360.47  |
| 3.5                           | 39.53  | 40.70  | 60.47  | 73.66  | 157.50 | 132.56 | 174.42  | 441.86  |
| 4.0                           | 50.58  | 52.03  | 83.72  | 94.24  | 194.33 | 175.58 | 226.74  | 558.14  |
| 4.5                           | 60.47  | 64.19  | 108.14 | 120.41 | 236.80 | 239.53 | 313.95  | 662.79  |
| 5.0                           | 70.93  | 75.12  | 130.23 | 149.13 | 277.80 | 302.67 | 413.95  | 767.44  |
| 5.5                           | 81.41  | 87.73  | 153.29 | 184.53 | 316.74 | 372.09 | 511.95  | 872.09  |
| 6.0                           | 90.70  | 101.16 | 172.09 | 215.47 | 349.30 | 445.35 | 606.98  | 982.56  |
| 6.5                           | 98.84  | 113.43 | 190.73 | 253.55 | 379.88 | 555.58 | 705.81  | 1069.77 |
| 7.0                           | 104.65 | 124.13 | 208.15 | 283.90 | 413.49 | 592.44 | 793.02  | 1151.16 |
| 7.5                           | 109.88 | 133.14 | 220.98 | 311.80 | 444.19 | 650.00 | 883.72  | 1244.19 |
| 8.0                           | 113.95 | 142.09 | 233.72 | 340.70 | 470.12 | 718.60 | 976.74  | 1325.58 |
| 8.5                           | -      | -      | -      | -      | -      | 767.44 | 1034.88 | 1406.98 |
| 9.0                           | -      | -      | -      | -      | -      | 842.44 | 1084.88 | 1500.00 |
| 9.5                           | -      | -      | -      | -      | -      | 881.98 | 1139.53 | 1569.77 |
| 10.0                          | -      | -      | -      | -      | -      | 894.19 | 1195.35 | 1651.16 |
| 10.5                          | -      | -      | -      | -      | -      | 906.98 | 1255.81 | 1720.93 |
| 11.0                          | -      | -      | -      | -      | -      | 918.60 | 1302.33 | 1779.07 |
| 11.5                          | -      | -      | -      | -      | -      | 931.86 | 1348.84 | 1825.58 |
| 12.0                          | -      | -      | -      | -      | -      | 947.09 | 1395.35 | 1860.47 |

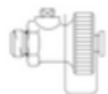
**"Hydrocontrol" Valve Accessories**



Set of 2 pressure test points  
Item 106 02 81



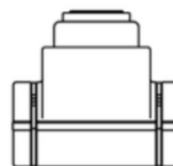
Extension piece for pressure test points  
80mm Item 106 02 95



Fill and drain ball valve 1/4"  
Item 106 01 91



Measuring adapter  
for fill and drain ball valve  
Item 106 02 98



Insulation shell  
for "Hydrocontrol F" & G

| Size        | Item no.  |
|-------------|-----------|
| DN65 2 1/2" | 106 25 86 |
| DN80 3"     | 106 25 87 |
| DN100 4"    | 106 25 88 |
| DN125 5"    | 106 25 89 |
| DN150 6"    | 106 25 90 |



Flow meter  
OV-DMC 3  
Item 106 92 78