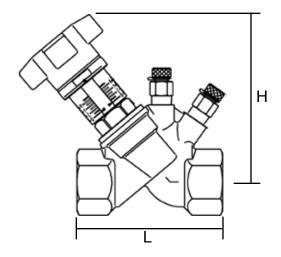
oventrop

"Hydrocontrol R" Bronze Manual Balancing Valve

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Job Name:	Submitted by:	Date:
	Spec Section:	
Job Location:	Engineer/Architect:	
	Approval:	Date:

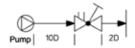


Coil Kit Dimensions in Inches

Dimension	1/2"	3⁄4"	1"	1¼"	1½"	2"
L (F-NPT)	3.15	3.31	3.84	4.33	4.72	5.91
L (sweat)	3.51	3.81	4.31	5.03	5.57	6.60
Н	4.49	4.57	4.69	5.35	5.43	5.83

Installation Notes

When installing the hydrocontrols, 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.





Hydrocontrol valves can be installed in any orientation (e.g. vertical or horizontal). It is recomended to take caution if installing the valve with the test ports pointing down, as this could lead to clogging of the test ports.

Specification

Oventrop double regulating and commissioning valves "Hydrocontrol R" 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.

Maximum working temperature: 300°F Maximum working pressure (F-NPT): 362 psi Maximum working pressure (sweat): 235 psi

Using balancing valve for isolation:

The hand wheel can be limited to any setting. This can be done by inserting a 3 mm allen key into the hole on the top of the handle and turning clockwise until it stops. Once this has been done, the valve can be closed down for isolation of the coil without losing the balanced setting. When the valve is reopened, the handle will be turned until it reaches the preset limit.

•	"Hydrocontrol R" Manual Balancing Valve					
Size		mended ge [GPM]	Connection ends			
1/2"	0.4	- 4.2				
3/4"	0.6	- 6.2				
1"	1.2	- 9.6	FNPT x FNPT			
11⁄4"	1.6	- 21	Sweat x Sweat			
1½"	3.2	- 30				
2"	3.9	- 42				

Size	1/2"	3/4"	1"	11/4"	1 ½"	2"
Item Number (F-NPT)	1061004	1061006	1061008	1061010	1061012	1061016
Item Number (sweat)	1060551	1060552	1060553	1060554	1060555	1060556

Oventrop Corporation PO Box 789 East Granby, CT 06026 Phone (860) 413-9173 www.oventrop-us.com

3-HydroR CoilKits-S-081611

"Hydrocontrol R"
Sweat or Thread Connection
½" to 2" Valves

Cv Values for Various Handwheel Settings

Presetting or Handwheel Turns	1/2"	3/4"	1"	1¼"	1½"	2"
0.5	0.40	0.58	1.08	1.20	3.09	3.13
1.0	0.53	0.84	1.77	2.40	4.80	5.88
1.5	0.66	1.08	2.42	3.37	6.67	8.31
2.0	0.84	1.33	3.00	4.67	8.53	10.66
2.5	1.14	1.57	3.59	5.91	10.12	13.55
3.0	1.56	1.86	4.29	6.98	11.65	16.55
3.5	1.98	2.37	5.14	7.97	13.02	19.01
4.0	2.38	3.00	6.00	8.88	14.37	21.51
4.5	2.77	3.63	6.92	10.06	16.05	24.07
5.0	3.14	4.24	7.81	11.27	17.74	26.66
5.5	3.56	4.97	8.51	12.44	20.17	28.49
6.0	3.95	5.69	9.20	13.60	22.62	30.04
6.5	4.33	6.33	9.78	14.88	24.36	32.27
7.0	4.51	6.64	10.34	16.17	26.10	34.20
7.5	-	-	-	17.47	27.47	36.16
8.0	-	-	-	18.73	28.86	38.06
8.5	-	-	-	19.97	29.59	40.35
9.0	-	-	-	21.14	30.34	42.65
9.5	-	-	-	22.01	31.16	44.13
10.0	-	-	-	22.62	31.99	45.09

"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

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Flow meter OV-DMC 2 Item 106 91 77

Insulation shell for "Hydrocontrol R"

Size		Item no.
DN15	1/2"	106 00 81
DN20	3⁄4"	106 00 82
DN25	1"	106 00 83
DN32	11⁄4"	106 00 84
DN40	1½"	106 00 85
DN50	2"	106 00 86

3-HydrocontrolRswt-S-021611