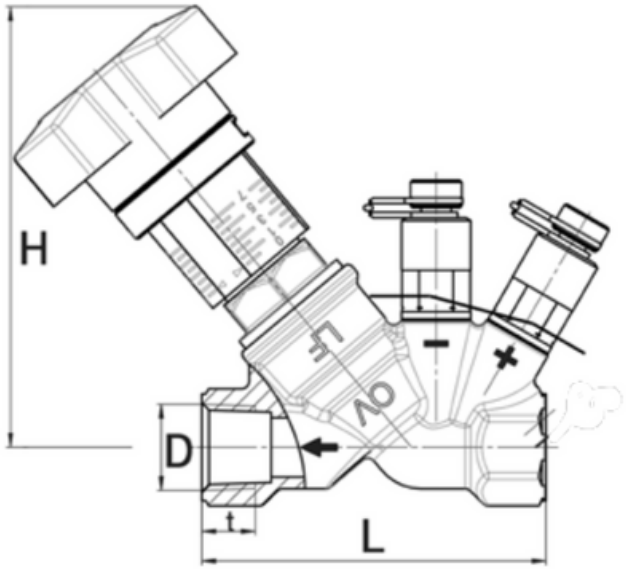
Hydrocontrol MTR Lead free brass
Double Regulating and Commissioning Valves
Thread Connection 1/2″-LF - 2″ (DN 15LF - DN 50)

Job Name: _____ Submitted by: _____ Date:_____

_____ Spec Section:_____

Job Location: _____ Engineer/Architect:_____

_____ Approval:_____ Date:_____



Dimensions in Inches

Size	Connection	Item no.	Cv	D	L	H
DN15LF ½″	FNPT	166 04 64	0.64	½	3.4	4.5
DN15MF ½″	FNPT	166 04 34	1.39	½	3.4	4.5
DN15 ½″	FNPT	166 04 04	2.55	1/2	3.4	4.5
DN20 ¾″	FNPT	166 04 06	4.93	3/4	3.8	4.6
DN25 1″	FNPT	166 04 08	9.98	1	4.0	4.7
DN32 1 ¼″	FNPT	166 04 10	18.44	1 ¼	4.7	5.3
DN40 1 ½″	FNPT	166 04 12	27.14	1 ½	5.2	5.4
DN50 2″	FNPT	166 04 16	54.52	2	6.4	5.8

Size	Connection	Item no.	Minimum Flow [GPM]	Maximum Flow [GPM]
DN15LF ½″	FNPT	166 04 64	0.4	1.3
DN15MF ½″	FNPT	166 04 34	1	2.8
DN15 ½″	FNPT	166 04 04	1.7	5.5
DN20 ¾″	FNPT	166 04 06	2	7
DN25 1″	FNPT	166 04 08	3.8	12
DN32 1 ¼″	FNPT	166 04 10	7	25
DN40 1 ½″	FNPT	166 04 12	10	35
DN50 2″	FNPT	166 04 16	21	50

$$GPM = \frac{\sqrt{PSID}}{Cv}$$

Product Specification
Oventrop double regulating and commissioning valves Hydrocontrol MTR 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 across an integrated venturi. These valves are compliant with ANSI/NSF 372.

Specifications:
Maximum working temperature: 300 °F
Maximum working pressure: 360 psi

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

Oventrop Corporation
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oventrop

Hydrocontrol MTR Lead free brass
1/2" to 2" Valves
Accessories

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Job Location: _____ Engineer/Architect:_____

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Pressure drop [PSI] measured at the valve for select flow rates [GPM]

Flow rate-GPM	DN15LF ½"	DN15MF ½"	DN15 ½"	DN20 ¾"	DN25 1"	DN32 1¼"	DN40 1½"	DN50 2"
0.25	0.15							
0.33	0.27							
0.5	0.61	0.13						
0.75	1.38	0.29						
1	2.46	0.52	0.15					
1.25	3.84	0.81	0.24					
1.5	5.53	1.16	0.35					
1.75	7.52	1.58	0.47	0.13				
2	9.83	2.06	0.61	0.16				
2.5		3.23	0.96	0.26				
3		4.64	1.38	0.37				
4		8.26	2.46	0.66	0.16			
5		12.9	3.84	1.03	0.25			
6			5.53	1.48	0.36			
7			7.52	2.02	0.49	0.14		
8			9.83	2.63	0.64	0.19		
9			12.44	3.33	0.81	0.24		
10				4.11	1	0.29	0.14	
12				5.92	1.45	0.42	0.2	
15				9.26	2.26	0.66	0.31	
20					4.02	1.18	0.54	
25					6.28	1.84	0.85	0.21
30					9.04	2.65	1.22	0.3

Hydrocontrol Valve Accessories

Set of 2 pressure test points
Item 106 02 81

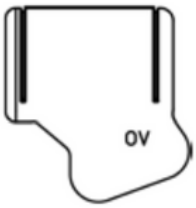
Extension piece for pressure test points
80mm Item 106 02 95

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

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

Flow meter
OVD-MC 3
Item 106 92 78

Insulation Shell
for Hydrocontrol MTR



Size	Item no.
DN15 ½"	106 00 81
DN20 ¾"	106 00 82
DN25 1"	106 00 83
DN32 1¼"	106 00 84
DN40 1½"	106 00 85
DN50 2"	106 00 86

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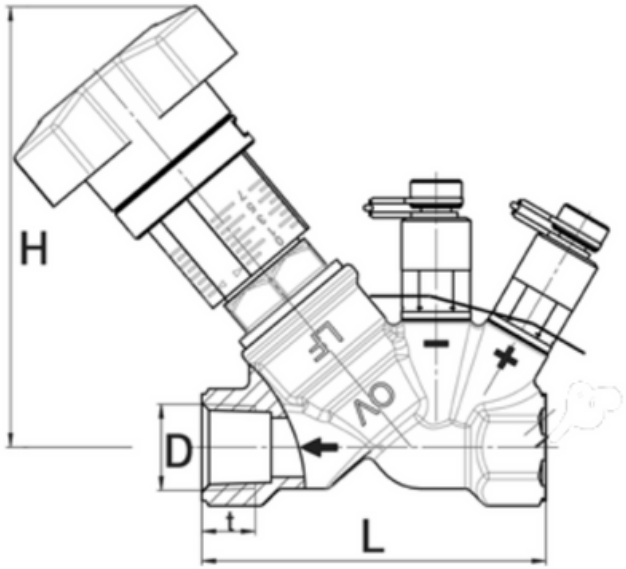

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Specifications:
Maximum working temperature: 300 °F
Maximum working pressure: 235 psi

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

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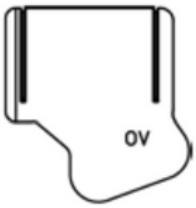

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