



oventrop

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

Job Name: _____

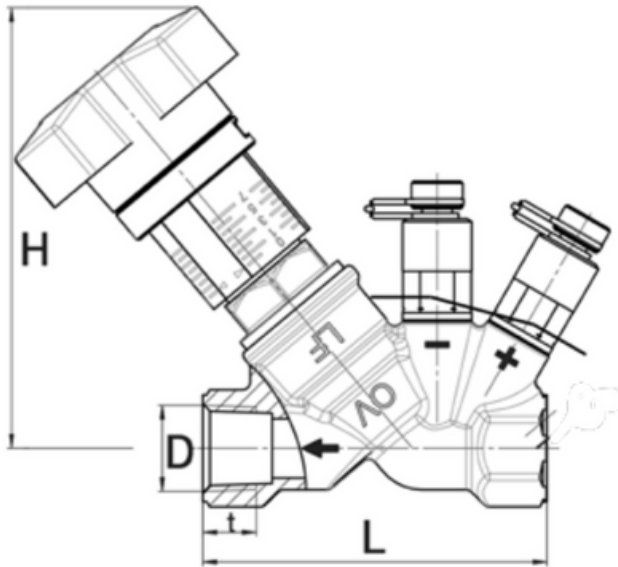
Submitted by: _____ Date: _____

Spec Section: _____

Job Location: _____

Engineer/Architect: _____

Approval: _____ Date: _____



Dimensions in Inches

Size	Connection	Item no.	Cv	D	L	H
DN15LF 1/2"	FNPT	166 04 64	0.64	1/2	3.4	4.5
DN15MF 1/2"	FNPT	166 04 34	1.39	1/2	3.4	4.5
DN15 1/2"	FNPT	166 04 04	2.55	1/2	3.4	4.5
DN20 3/4"	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 1/4"	FNPT	166 04 10	18.44	1 1/4	4.7	5.3
DN40 1 1/2"	FNPT	166 04 12	27.14	1 1/2	5.2	5.4
DN50 2"	FNPT	166 04 16	54.52	2	6.4	5.8

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.

Size	Connection	Item no.	Minimum Flow [GPM]	Maximum Flow [GPM]
DN15LF 1/2"	FNPT	166 04 64	0.4	1.3
DN15MF 1/2"	FNPT	166 04 34	1	2.8
DN15 1/2"	FNPT	166 04 04	1.7	5.5
DN20 3/4"	FNPT	166 04 06	2	7
DN25 1"	FNPT	166 04 08	3.8	12
DN32 1 1/4"	FNPT	166 04 10	7	25
DN40 1 1/2"	FNPT	166 04 12	10	35
DN50 2"	FNPT	166 04 16	21	50

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

Oventrop Corporation

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Spec Section: _____

Job Location: _____

Engineer/Architect: _____

Approval: _____ Date: _____

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

Flow rate-GPM	DN15LF 1/2"	DN15MF 1/2"	DN15 1/2"	DN20 3/4"	DN25 1"	DN32 1 1/4"	DN40 1 1/2"	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



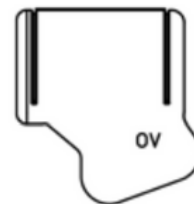
Fill and drain ball valve 1/4"
Item 106 01 91



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 1/2"	106 00 81
DN20 3/4"	106 00 82
DN25 1"	106 00 83
DN32 1 1/4"	106 00 84
DN40 1 1/2"	106 00 85
DN50 2"	106 00 86

Job Name: _____

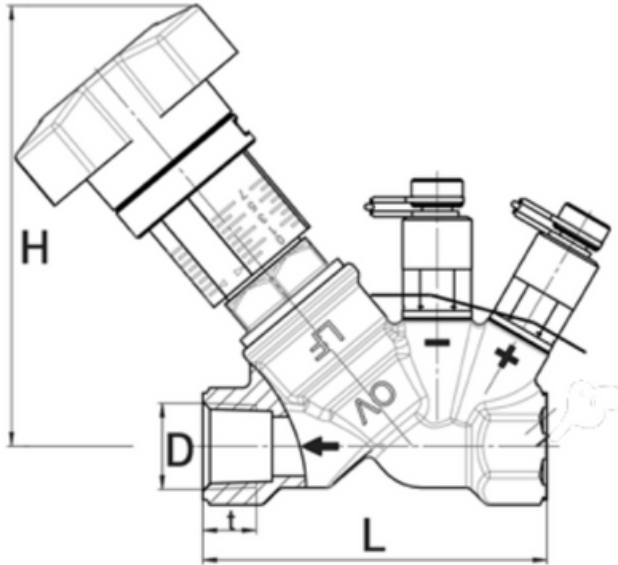
Submitted by: _____ Date: _____

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

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: 235 psi

Bonnet, stem and disc made of bronze/dezincification resistant brass.

Disc with PTFE seal.

Double EPDM O-ring stem seal.

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

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

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

Flow rate-GPM	DN15LF 1/2"	DN15MF 1/2"	DN15 1/2"	DN20 3/4"	DN25 1"	DN32 1 1/4"	DN40 1 1/2"	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		
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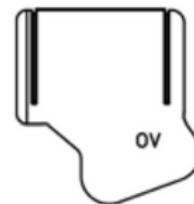
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