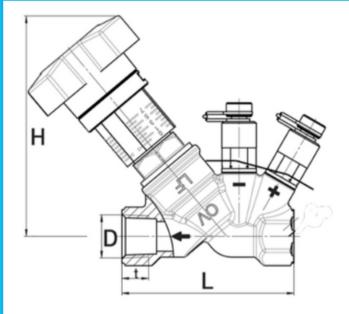


Hydrocontrol MTR Lead free brass Double Regulating and Commissioning Valves Thread Connection 1/2"-LF - 2" (DN 15LF - DN 50)

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



Dimensions in Inches

S	ze	Connection	Item no.	Cv	D	L	Н
DN15LF	1/2"	FNPT	166 04 64	0.64	1/2	3.4	4.5
DN15M	F ½"	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 ¼"	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

Size		Connection	Item no.	Minimum Flow [GPM]	Maximum Flow [GPM]
DN15LF	1/2"	FNPT	166 04 64	0.4	1.3
DN15M	IF 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 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.



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

Submitted by:	_Date:
Spec Section: Engineer/Architect:	
Approval:	 _Date:

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

	,	/	/	/	/	/	/ /	/
	/.	/			/	/		/
,	CON /	15 /	14 /	/. /	/, /	/. /	/ , /	/ 0
/104	A Tate Gran	Str 1/2 DAY	SMF 1/2 DMI	DAY DAY	Day DAY	54/2	2 11/4" DAVE	a zyř
0.25	0.15	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	4	0	0	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	/ `
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	j j			
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	Ĵ				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

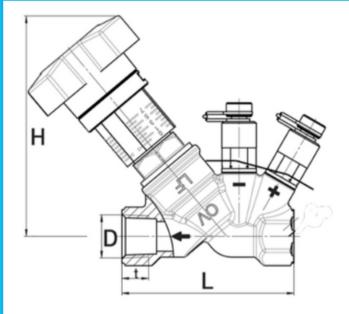
Oventrop Corporation

P: (860) 413-9173 F: (860) 413-9436 PO Box 789, 45 Russell Road East Granby, CT 06026 office@oventrop-us.com www.oventrop.com



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

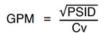
Job Name:	Submitted by:	Date:
	Spec Section:	
Job Location:	Engineer/Architect:	
	Approval:	Date:



Dimensions in Inches

S	ze	Connection	Item no.	Cv	D	L	Н
DN15LF	1/2"	FNPT	166 04 64	0.64	1/2	3.4	4.5
DN15M	F ½"	FNPT	166 04 34	1.39	1/2	3.4	4.5
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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 ¼"	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

Size		Connection	Item no.	Minimum Flow [GPM]	Maximum Flow [GPM]
DN15LF	1/2"	FNPT	166 04 64	0.4	1.3
DN15M	IF 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 ¼"	FNPT	166 04 10	7	25
DN40	1 ½"	FNPT	166 04 12	10	35
DN50	2"	FNPT	166 04 16	21	50





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.

Oventrop Corporation

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

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

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

	,	/	/	/	/	/	/	/
	/	/			/	/		/
	Tate Gran	10	Stat 1/2 DATE	/	/	/	/. ,	/.
/	Tate /	SEN DAY	SMF 1	* /	Day Day	54/	2.1% Drug	011/1
/ Flor	/ DW	/ DA	DH1	DW	DW.	/ ON	/ DMD	07/10
0.25	0.15							
0.33	0.27			j.				
0.5	0.61	0.13						
0.75	1.38	0.29		1				
1	2.46	0.52	0.15					
1.25	3.84	0.81	0.24	ĵ.				
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	j i			
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	ĺ		12.44	3.33	0.81	0.24		
10				4.11	1	0.29	0.14	
12	Ĭ			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



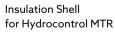
Fill and drain ball valve 1/4" Item 106 01 91



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



Flow meter OVD-MC 3 Item 106 92 78





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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