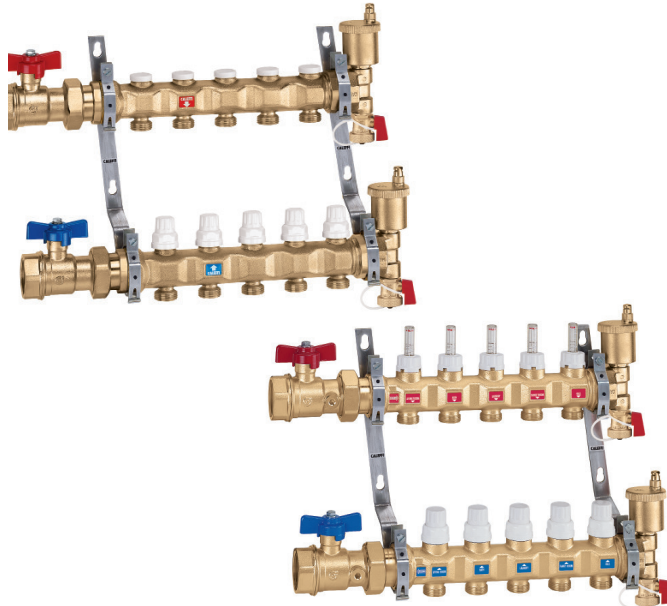


Pre-assembled distribution manifolds

663 & 668S1 series

Product information - PI 450 - Issue Date 09/2021



Function

Distribution manifolds for radiant panel systems are used to optimally distribute the heating fluid in floor heating system circuits and ultimately improve the control of heat emission from the panels. The manifolds ensure that the flow to each circuit is regulated precisely and also control the shut-off, venting and automatic removal of air from the system.

Product range

Series 663	Pre-assembled distribution manifold for high temperature and flow systems	Sizes 1" and 1 1/4"
Series 668S1	TwistFlow™ pre-assembled distribution manifold for radiant panel systems with built-in sight flow gage/balancing valve	Sizes 1" and 1 1/4"

Technical specification

Materials:

Supply manifold	
- body:	brass
Balancing valve for 663 series	
- body:	brass
- control device upper part:	brass
- seal:	EPDM
Flow rate regulating valve for 668S1 series	
- control device upper part:	brass
- valve plug:	brass
- flow meter body:	PSU
- spring:	stainless steel
- seals:	peroxide-cured EPDM
- regulating unit cover:	ABS

Return manifold

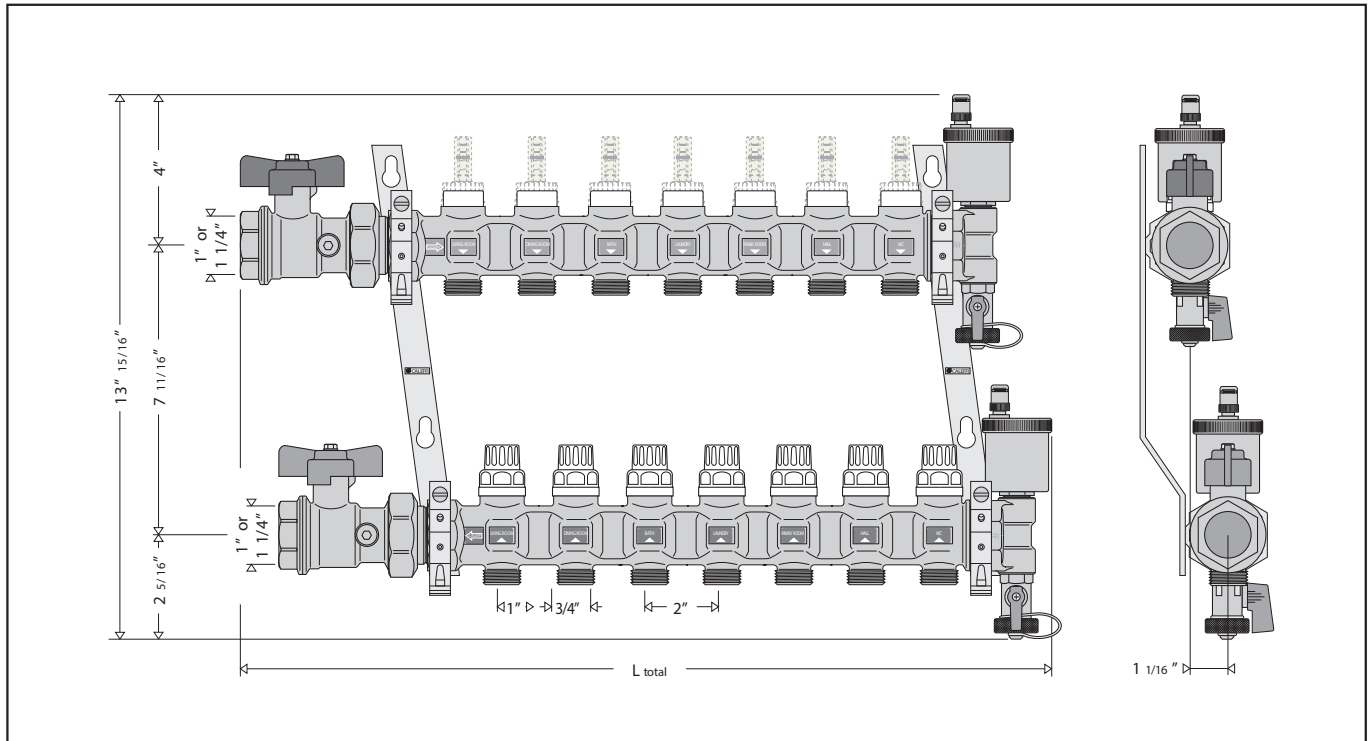
- body:	brass
Shut-off valve	
- control device upper part:	brass and PA
- stem:	stainless steel
- springs:	stainless steel

Ball valve	
- body:	brass
- ball:	brass, chrome plated
- handle:	aluminium
End fitting	
- body:	brass
Automatic air vent valve	
- stem:	brass
- spring:	stainless steel
- seals:	EPDM
- float:	PP

Performance:

Medium:	water, glycol solutions
Max. percentage of glycol:	50%
Max. working pressure:	150 psi (10 bar)
Max. end fitting discharge pressure:	35 psi (2.5 bar)
Working temperature range:	- 668S1 series: 32 to 180°F (0 to 80°C)
	- 663 series: 32 to 210°F (0 to 98°C)
Flow meter scale for 668S1 series:	1/4–2 GPM - (1–8 l/min)
Accuracy:	±15%

Dimensions



Code (1")	6636C5A	6636D5A	6636E5A	6636F5A	6636G5A	6636H5A
Code (1 1/4")	6637C5A	6637D5A	6637E5A	6637F5A	6637G5A	6637H5A
Code (1")	6686C5S1A	6686CD5S1A	6686E5S1A	6686F5S1A	6686G5S1A	6686H5S1A
Code (1 1/4")	6687C5S1A	6687D5S1A	6687E5S1A	6687F5S1A	6687G5S1A	6687H5S1A
No. Outlets	3	4	5	6	7	8
Total Length L	15 3/16"	17 1/8"	19"	21"	23"	25"
Weight (lb)	17	18	19	21	23	24

Code (1")	6636I5A	6636L5A	6636M5A	6636N5A	6636O5A	6636P5A
Code (1 1/4")	6637I5A	6637L5A	6637M5A	6637N5A	6637O5A	6637P5A
Code (1")	6686I5S1A	6686L5S1A	6686M5S1A	6686N5S1A	6686O5S1A	6686P5S1A
Code (1 1/4")	6687I5S1A	6687L5S1A	6687M5S1A	6687N5S1A	6687O5S1A	6687P5S1A
No. Outlets	9	10	11	12	13	14
Total Length L	28 1/8"	30 1/8"	32 1/16"	34 1/16"	36"	38"
Weight (lb)	26	28	29	31	33	35

NOTE: For models ordered for inverted assembly (tubing connections going upward), add the suffix IN to each code. Example: **6636L5A IN**.

We reserve the right to change our products and their relevant technical data, contained in this publication, at any time and without prior notice.



Caleffi North America, Inc.
 3883 W. Milwaukee Road
 Milwaukee, WI 53208
 Tel: 414-238-2360 · Fax: 414-238-2366
 sales@caleffi.com · www.caleffi.com
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