

Technical data sheet

Single-chamber manifold round tube

Single-chamber manifold/collector made from welded tubing P235 in accordance with EN 10217 and fitted with dished boiler ends on both sides. Nozzles configured as threaded and/or flanged nozzles PN 6 to PN 16. All nozzles are aligned to the height of the shut-off valves, and can be at the top, side or underneath. Required nozzle spacings for valve insulation covers: DN 50 = 280 mm, DN 65 = 320 mm, DN 80 = 350 mm, DN 100 = 380 mm, DN 125 = 400 mm. Drainage bushing 1/2" is provided as standard. The single-chamber manifold is 100% tightness tested and primed before leaving the factory.

Manufacturer certification

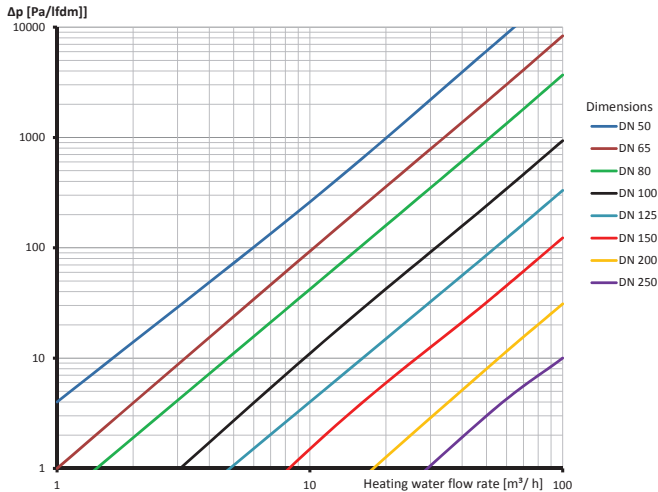
Description	Single-chamber manifold round tube
Design pressure	6 or 16 bar
Design temperature	0/+110 °C
Design procedure	Article 4, Paragraph 3
Manufacturer	Sinusverteiler GmbH Dieselweg 2 48493 Wettringen/Germany

We declare under our sole responsibility that the pressure equipment meets the requirements of Directive 2014/68/EU. This product was manufactured in accordance with the principles of GEP "Good Engineering Practice".

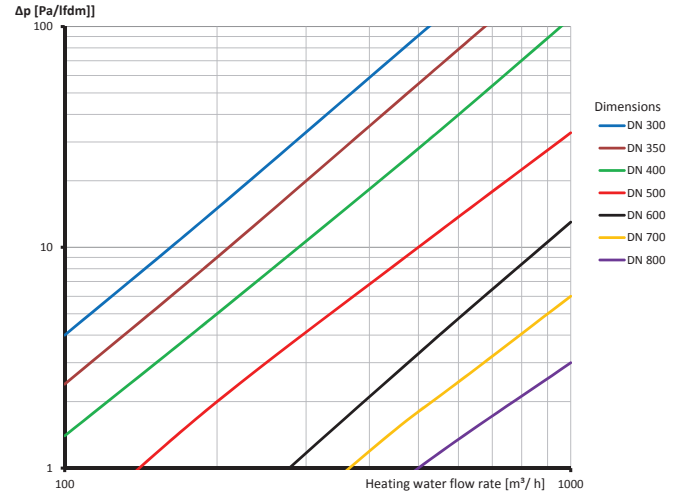
Pressure loss in the manifold chamber

Pressure loss diagram to show the corresponding pressure loss dependent on the water throughput for the given size.

Einkammerverteiler Rundrohr DN 50 - DN 250



Einkammerverteiler Rundrohr DN 300 - DN 800



Single-chamber manifold round
tube 6 bar

Size	Flow rate at 0.4 m/s	Power at ΔT 20 K at 0.4 m/s	Flow rate at 0.6 m/s	Power at ΔT 20 K at 0.6 m/s	Main body water capacity	Main body weight	Nozzle spacing	Wall thickness
[DN]	[m ³ /h]	[kW]	[m ³ /h]	[kW]	[litres/running metre]	[kg/running metre]	[mm]	[mm]
50	3.5	81	5.0	116	2.4	3.3	variable	2.3
65	5.5	128	8.5	197	3.9	4.7	variable	2.6
80	7.0	163	12.0	279	5.4	6.2	variable	2.9
100	10.0	232	17.0	395	9.1	8.8	variable	3.2
125	17.0	395	27.0	627	13.7	12.1	variable	3.6
150	24.0	558	38.0	883	20.1	16.2	variable	4.0
200	44.0	1022	72.0	1673	34.6	23.8	variable	4.5
250	70.0	1626	115.0	2672	54.3	33.0	variable	5.0
300	100.0	2323	153.0	3555	76.7	44.0	variable	5.6
350	140.0	3253	208.0	4833	93.2	48.3	variable	5.6
400	180.0	4182	271.0	6296	121.8	62.2	variable	6.3
500	280.0	6505	424.0	9851	192.8	77.9	variable	6.3
600	400.0	9293	611.0	14196	280.3	93.8	variable	6.3
700	550.0	12778	830.0	19284	381.3	123.3	variable	7.1
800	700.0	16263	1085.0	25208	498.9	158.8	variable	8.0

Single-chamber manifold round
tube 16 bar

Size	Flow rate at 0.4 m/s	Power at ΔT 20 K at 0.4 m/s	Flow rate at 0.6 m/s	Power at ΔT 20 K at 0.6 m/s	Main body water capacity	Main body weight	Nozzle spacing	Wall thickness
[DN]	[m ³ /h]	[kW]	[m ³ /h]	[kW]	[litres/running metre]	[kg/running metre]	[mm]	[mm]
50	3.5	81	5.0	116	2.3	4.1	variable	2.9
65	5.5	128	8.5	197	3.1	5.2	variable	2.9
80	7.0	163	12.0	279	5.0	6.8	variable	3.2
100	10.0	232	17.0	395	8.5	9.8	variable	3.6
125	17.0	395	27.0	627	19.9	13.4	variable	4.0
150	24.0	558	38.0	883	24.0	18.2	variable	4.5
200	44.0	1022	72.0	1673	33.5	33.1	variable	6.3
250	70.0	1626	115.0	2672	53.2	41.4	variable	6.3
300	100.0	2323	153.0	3555	75.3	55.5	variable	7.1
350	140.0	3253	208.0	4833	90.6	68.6	variable	8.0
400	180.0	4182	271.0	6296	118.7	86.3	variable	8.8
500	280.0	6505	424.0	9851	185.5	135.0	variable	11.0
600	400.0	9293	611.0	14196	268.8	184.0	variable	12.5