

Aquatherm Technical Bulletin

201207A - AQTTB

Gaskets

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Aquatherm recommends using a full-face rubber (black EPDM or red SBR) gasket with its flanges. Viton® gaskets may also be used if needed for chemical resistance. The bolt and bolt torque do not change with these different gasket materials. Other materials may require different bolt torque. The gasket should have an inside diameter consistent with the ID of the flange adapter. For lower pressure systems, and smaller diameters (4" and down), ring gaskets may be used but there is the possibility of blow-outs during pressure testing. Ring gaskets are also more susceptible to leaks if the flanges and connected piping are not aligned properly during installation. The gasket should have an inside diameter consistent with the ID of the flange adapter.

It is important to note that any gasket material used, whether purchased from Aquatherm or another source, is not covered under the Aquatherm warranty program.

On the following pages please find a Flange Adapter Table listing the dimensions of the various flange adapters available from Aquatherm. This table may be used in selecting the proper size gasket for various sized flange adapters.

Also, please find a short listing of some alternative gasket manufacturers. These manufacturers have a large variety of different gaskets and materials available. Please contact the individual manufacturers for specific details concerning price and availability.

Flange Adapter Table

Pipe SDR	Flange Adapter Part Number	Pipe Dimension	Face ID, in. (mm)	Face OD, in. (mm)	Ring OD, in.	Flange Face Area, in ²
7.4, 9, 11	1020032910	1" - 32 mm	1.10 (27.94)	2.68 (68)	4.63	4.69
	1020040911	1 1/4" - 40 mm	1.42 (36.07)	3.07 (78)	4.63	5.82
	1020050912	1 1/2" - 50 mm	1.77 (44.96)	3.46 (88)	5.00	6.94
	1020063913	2" - 63 mm	2.24 (56.90)	4.02 (102)	6.00	8.75
	1020075914	2 1/2" - 75 mm	2.72 (69.09)	4.80 (122)	7.00	12.28
	1020090915	3" - 90 mm	3.15 (80.01)	5.43 (138)	7.50	15.36
	1020110916	3 1/2" - 110 mm	4.02 (102.11)	6.22 (158)	8.50	17.69
	1020125917	4" - 125 mm	4.06 (203.12)	6.22 (158)	9.00	17.44

Pipe SDR	Flange Adapter Part Number	Pipe Dimension	Face ID, in. (mm)	Face OD, in. (mm)	Ring OD, in.	Flange Face Area, in ²
17.6	9792915530	6" (160 mm)	6.18 (157)	8.35 (212.09)	11.00	24.76
	9792915534	8" - 200 mm	8.00 (203)	10.55 (267.97)	13.50	37.15
	9792915538	10" - 250 mm	10.12 (257.05)	12.60 (320.04)	16.00	44.25
	9792915542	12" - 315 mm	12.13 (308.10)	14.57 (370.08)	19.00	51.17
	9792915544	14" - 355 mm	13.63 (346.20)	16.93 (430.02)	21.00	79.21
	9792915546	16" - 400 mm	15.50 (393.70)	18.98 (482.09)	23.50	94.54
	9792915548	18" - 450 mm	17.40 (441.96)	20.80 (528.32)	25.00	102.01
	9792915550	20" - 500 mm	19.40 (492.76)	23.03 (584.96)	27.00	120.97
9792915554	24" - 630 mm	23.60 (599.44)	26.97 (685.04)	32.00	133.85	
11	9790115531	6" - 160 mm	6.18 (157)	8.35 (212)	11.00	24.76
	9790115535	8" - 200 mm	8.00 (203)	10.55 (267.97)	13.50	37.15
	9790115539	10" - 250 mm	10.12 (257.05)	12.60 (320)	16.00	44.25
	9790115543	12" - 315 mm	12.13 (308.10)	14.65 (372.11)	19.00	53.00
	9790115545	14" - 355 mm	13.41 (340.61)	16.93 (430.02)	21.00	83.88
	9790115547	16" - 400 mm	15.2 (386.08)	18.98 (482.09)	23.50	101.47
	9790115549	18" - 450 mm	17.20 (437)	20.80 (528.32)	25.00	107.44
9	9790315530	6" - 160 mm	4.89 (124)	8.35 (212)	11.00	35.98
	9790315534	8" - 200 mm	6.11 (155)	10.60 (269)	13.50	58.93
	9790315538	10" - 250 mm	7.65 (194)	12.60 (320)	16.00	78.73
	9790315542	12" - 315 mm	9.63 (245)	14.60 (370)	19.00	94.58
	9790315544	14" - 355 mm	10.90 (277)	17.00 (432)	21.00	133.67
7.4	9790115530	6" - 160 mm	4.57 (116)	8.35 (212)	11.00	38.36
	9790115534	8" - 200 mm	5.72 (145)	10.60 (269)	13.50	62.55
	9790115538	10" - 250 mm	7.15 (182)	12.60 (320)	16.00	84.54

*Ring OD given for making full-faced gaskets

The following companies provide gasket materials:

<p>Ames Rubber Manufacturing Corporation 19 Ames Boulevard Hamburg, New Jersey 07419-1514 973-827-9101 http://www.amesrubber.com/</p>	<p>Cain Bolt & Gasket, Inc. 7724 7th Avenue South Seattle, WA 98108 800-340-1891 http://cainboltandgasket.com</p>
<p>CTG 8819 Emmott Rd. PO Box 40940 Houston, TX 77240-0940 800-299-1685 http://www.ctgasket.com</p>	<p>HydraPak Seals, Inc. 3532 Galaxy Park Place West Jordan, UT 84088 800-669-9638 http://hydrapakseals.com</p>
<p>Ryan Herco Flow Solutions PO Box 588 Burbank, CA 91503-0588 818-841-1141 http://www.ryanherco.com</p>	<p>Standard Washer & Mat, Inc. 299 Progress Drive\PO Box 368 Manchester, CT 06040 860-643-5125 http://www.standardwasher.com/</p>
<p>U.S Rubber Supply Co. 238-A N. 9th Street Brooklyn, NY 11211 718-782-7888 http://www.usrubberco.com/</p>	<p>Valley Rubber 2170 S 3600 W Salt Lake City, UT 84119 801-972-6603</p>

Revisions:

1. 7 Sept. 2015 – Revised Flange Adapter dimensions; Added Gasket Supplier
2. 16 December 2015 – Added Ring OD for making full-faced gaskets
3. 28 Oct 2021 – Add SDR 9 to Flange Adapter Table; Check & update Part Numbers
4. 20 May 2022 – Added Flange Face Areas
5. 29 August 2022 – Revised Part numbers