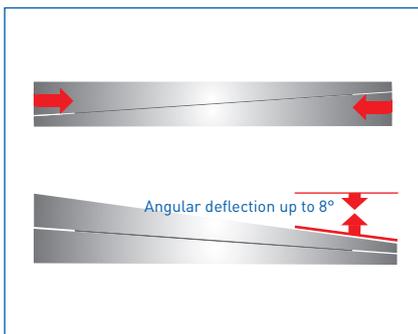
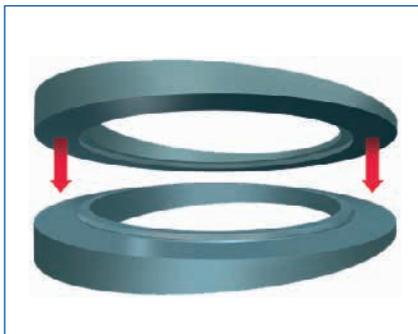


Angular flange gasket Series C4 51

The angular flange gasket is a two-part piece made of vulcanized elastomeric material, over steel rings.



Description

- This gasket provides precise angular adjustment of sealing surfaces.
- Elastomeric elements provide a secure seal for flanged connections with nonparallel flange surfaces. The gasket, made up of two conical elements, combines sealing as well as compensation for angular deflection by allowing precise adjustment up to 8 °.
- Steel rings, vulcanized into the elastomer elements, guarantee mechanical stability and long-term functionality.
- Angular seals are made according to DIN-EN 1514-1 standard (comparable to the former standard DIN 2690), IBC form, with automatic centering between flanges according to DIN-EN 1092-1, DIN-EN 1092-2.

Technical Data

- EPDM with drinking water agreement (ACS).
- Elastomeric EPDM offers excellent resistance to fluids such as various chemicals, industrial applications, aqueous saline solutions and is DVGW approved for drinking water installations. Excellent resistance to ozone and UV rays!
- DN 32 to 200, PN 10 to 40, other DN and PFA on request.
- Working temperature: from -25 °C to +100 °C.
- Hardness grade: 85+/-5 Shore A according to DIN-ISO 7619-1.

Applications

- Angular seals are designed to be used for:
 - flanged connections with sealing surfaces that are not parallel to each other
 - make up for misalignments (fire hydrant assembly, buried pipes, etc.).

PRODUCT

- Easy and economical installation thanks to the precise angular adjustment.
- Excellent resistance to fluids.
- Vulcanized steel rings providing offering long-term stability.
- Easy mounting with low tightening torque.
- No need to retighten screws.
- No leaks.

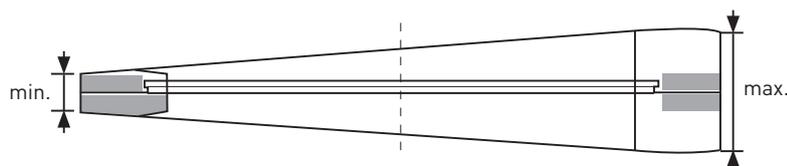
Installation

- Flanges sealing lines must be clean and free from grooves and edges.
- Adjust the seal angle according to the misalignment of the flanges.
- The IBC shape ensures the automatic centering of the seal.
- Insert the seal carefully between flanges.
- Lubricate the bolts.
- Place the bolts in the intended holes.
- Tighten screws evenly (in three steps, 30 % + 40 % + 30 %) clockwise with a torque wrench according to below table.



Important tips

- Mount the seals only ONCE !
- Do not use lubricants, greases or glues to assemble the gaskets !
- Please be sure that you always stick to the manufacturers' mounting advice and personal qualification requirements in accordance with standard DIN-EN 1591 !



DN	PN	Thickness		Bolting			Operating torque NM			
		Minimum	Maxima	Length mm	Diameter mm	PN 10	PN 16	PN 25	PN 40	
32	PN10/40	9	20	90	M14	40	40	40	40	
40	PN10/40	9	22	90	M14	50	50	50	50	
50	PN10/40	9	24	100	M14	60	60	60	60	
65	PN10/40	9	26	100	M14	50	50	50	50	
80	PN10/40	14	30	100	M14	60	60	60	60	
100	PN10/16	14	33	100	M18	65	65	-	-	
100	PN25/40	14	33	110	M18	-	-	80	80	
125	PN10/16	14	33	110	M18	70	70	-	-	
150	PN10/16	14	39	110	M18	100	110	-	-	
150	PN25/40	14	39	130	M22	-	-	140	140	
200	PN10/16	15	50	120	M18	140	100	-	-	
200	PN40	15	50	160	M24	-	-	-	160	
250	PN10	16	59	140	M18	120	-	-	-	
250	PN40	16	59	170	M27	-	-	-	300	
300	PN10	22	68	150	M18	140	-	-	-	
350	PN10	22	68	150	M18	190	-	-	-	
400	PN10	22	74	160	M22	280	-	-	-	
500	PN10	23	79	180	M22	280	-	-	-	

Values based on a friction $\mu = 0,14$ (lubricated screw). Screw quality 5,6 or more.
Surface tension level of 15 N / mm².

For PE flanges, please take the following into account:

- The torque value has to be adjusted to the grade of the PE flange. Torque values are approximate, they may change due to various parameters such as temperature, lubrication, etc.
- For each case of application, conditions must be determined according to the material reaction.