

WAFER SWING CHECK VALVE (FAF 2300)



PRODUCT FEATURES

- Body, Stainless Steel DIN 1-4086.
- Disc, Stainless Steel SAE (AISI) 304.
- Disc gasket and Flange EPDM or Viton.
- Easy to install with eye screw.

APPLICATIONS

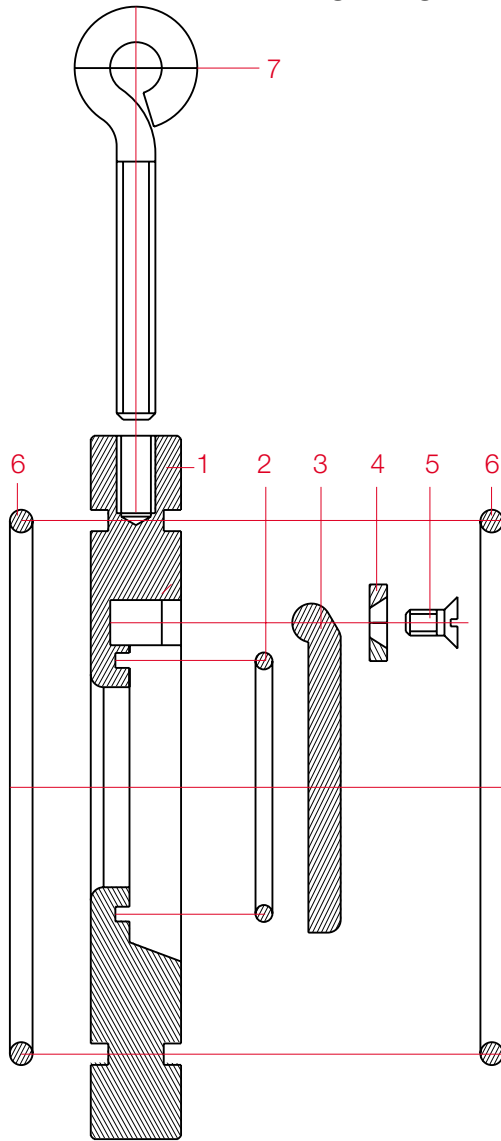
Hot and cold water systems and industrial applications

OPERATING TEMPERATURE

130°C 266°F for EPDM O-Ring,
180°C 356°F for Viton O-Ring

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TECHNICAL DRAWING AND MATERIALS



PARTS AND MATERIALS

1. Body / Stainless Steel DIN 1-4086
2. O-Ring / EPDM or Viton
3. Disc / Stainless Steel SAE-304
4. Ring / Stainless Steel SAE-304
5. SS Bolt / DIN 7991-A2
6. O-Ring / EPDM or Viton
7. Eye screw / Steel

MATERIAL PROPERTIES

MATERIAL TYPE	MATERIAL PROPERTY
GG 25 Cast Iron	Tensile strength = 250-350 N/mm ² Hardness = Max. 250 Brinell (BHN)
GGG 40 Ductile Iron	Tensile strength = 400-550 N/mm ² Hardness = 135 - 185 Brinell (BHN)
Stainless Steel DIN 1-4086	C = 0.9 - 1.3 Si Max.=2 Mn Max.= 1 Cr = 27 - 30
Stainless Steel SAE-304	C max = 0.08 Si Max.=1 Mn Max.=2 Cr = 18-20 Ni = 8 - 10.5
Stainless Steel SAE-316	C max = 0.08 Si Max.=1 Mn Max.=2 Cr = 16-18 Ni = 10- 14
PTFE	Density= 2.13-2.23 gr/cm ³ Tensile strength = 250-300 kg/cm ² Operating Temperature = -85°C / +200°C 392°F
PTFE (25 % Carbon)	Density= 2.1-2.2 gr/cm ³ Tensile strength= 165-170 kg/cm ²
Graphitic Ring	Graphite purity = %98 Density= min.1.6 gr/cm ³
St 37	C = <= 0.2 P Max.= 0.06 S Max.= 0.05 Tensile strength = 360-440 N/mm ²
St 50	C = 0.30 P Max.= 0.06 S Max.= 0.06 Tensile strength = 490 N/mm ²

BOLT DIMENSIONS

DN	BOLT		NUT QUANTITY	TIGHTENING TORQUE (Kgm)	WRENCH OPENING (mm)
	DIMENSIONS	QUANTITY			
40	M 16 X 65	4	4 x 1	16	24
50	M 16 X 70	4	4 x 1	16	24
65	M 16 X 70	4	4 x 1	16	24
80	M 16 X 75	8	8 x 1	16	24
100	M 16 X 80	8	8 x 1	16	24
125	M 16 X 80	8	8 x 1	16	24
150	M 20 X 85	8	8 x 1	22.5	30
200	M 20 X 90	12	12 x 1	22.5	30
250	M 24 X 100	12	12 x 1	38	36

Note: Dimensions according to standard flanges



WAFER SWING CHECK VALVE MAINTENANCE INSTRUCTIONS

Follow the instructions below to perform maintenance and cleaning of FAF Wafer Swing Check Valves.

DISMOUNTING:

- Make sure that there is no fluid supply on the line where the check valve is detached.
- Unscrew the connection nuts in opposite pairs and remove the bolts. Holding the eye screw, detach the check valve from the line.
- Remove the o-rings (6) on the check valve. Utilize a screw driver to remove stainless steel bolts (5) and remove the rings (4), disc (3) and O-ring (2), respectively.

INSPECTION AND CLEANING:

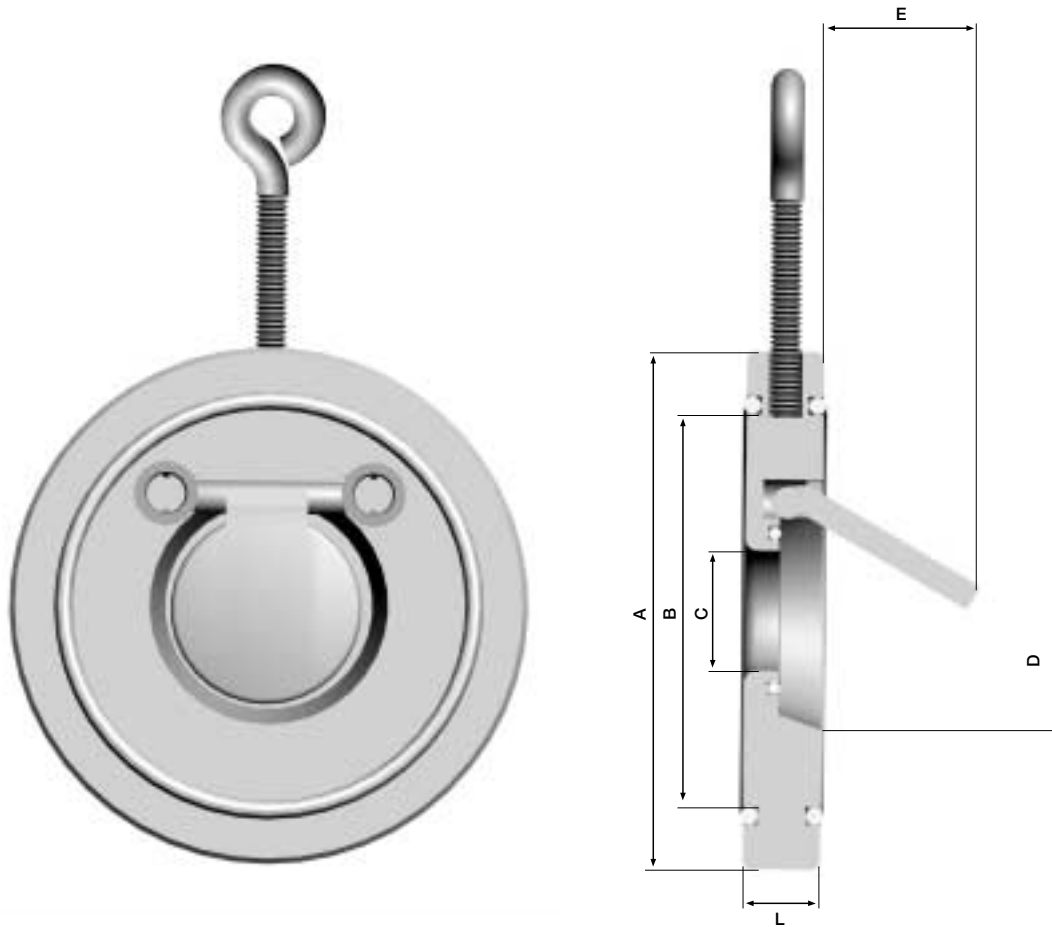
- Replace the disc, if excessive scratches and nicks noted. If lime stains and residue observed on the surface of the disc, clean the disc in water with wet sandpaper (400).
- Replace o-rings.
- Inspect bolt threads and replace damaged ones.
- Inspect the bolts and studs on the line, replace damaged and rusty ones.
- Clean all items prudently and proceed to mounting.

MOUNTING:

- Place the o-rings (2), the disc (3), the ring (4) and the bolt (5) on the body respectively, and use a screw driver to tighten the bolts.
- Place the o-rings (6) on the body to finish the mounting of the valve. Holding the eye screw of the check valve, center the valve prudently on the line. Eliminate the gaps, tightening the bolts and nuts in opposite pairs.

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DIMENSIONS AND PRODUCT DATA



FAF 2300 WAFER SWING CHECK VALVE

DN Ømm	A	B	C	D	E	L	Weight Kg
40	92	71.4	22	43.7	25	14	0.7
50	109	79	31	54	37	14	0.9
65	129	101.2	40	69.2	50	14	1.25
80	144	112	54	80	61	14	1.52
100	164	137	71	101	77	18	2.48
125	195	166	92	120	94	18	3.46
150	220	190	112	142.7	100	20	4.8
200	275	244.5	154	195	152	22	7.96
250	330	302	192	242	190	26	14.5