

## WAFER SWING CHECK VALVES (FAF 2300 & 2330)



### 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

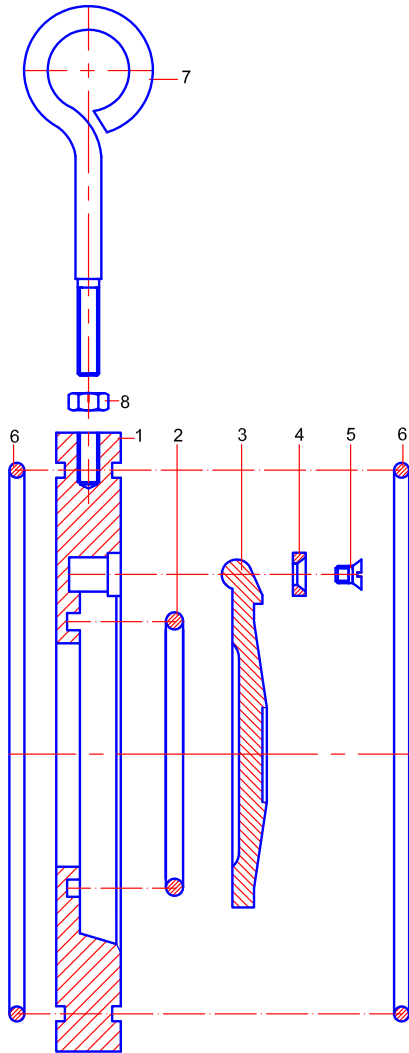
Hot and cold water systems and industrial applications.

### OPERATING TEMPERATURE

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

# WAFER SWING CHECK VALVES (FAF 2300 & 2330)

## TECHNICAL DRAWING AND MATERIALS



### PARTS and MATERIALS

1. Body / Stainless Steel DIN 1-4986
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 <sup>2</sup> Hardness=Max. 250 Brinell (BHN)   |
| GGG 40 Ductile Iron        | Tensile Strength = 400-550 N/mm <sup>2</sup> 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 <sup>3</sup> Tensile strength=250-300 kg/cm <sup>2</sup><br>Operating Temperature = -85°C / +200°C 392°F |
| PTFE (25% Carbon)          | Density=2.1-2.2 gr/cm <sup>3</sup> Tensile strength=165-170 kg/cm <sup>2</sup>   |
| Graphitic Ring             | Graphite Purity=98% Density=Min. 1.6 gr/cm <sup>3</sup>  |
| St 37                      | C = <= 0.2 P Max.=0.06 S Max.=0.05 Tensile Strength=360-440 N/mm <sup>2</sup>  |
| St 50                      | C=0.30 P Max.=0.06 S Max.0.06 Tensile strength=490 N/mm <sup>2</sup>   |

### 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:

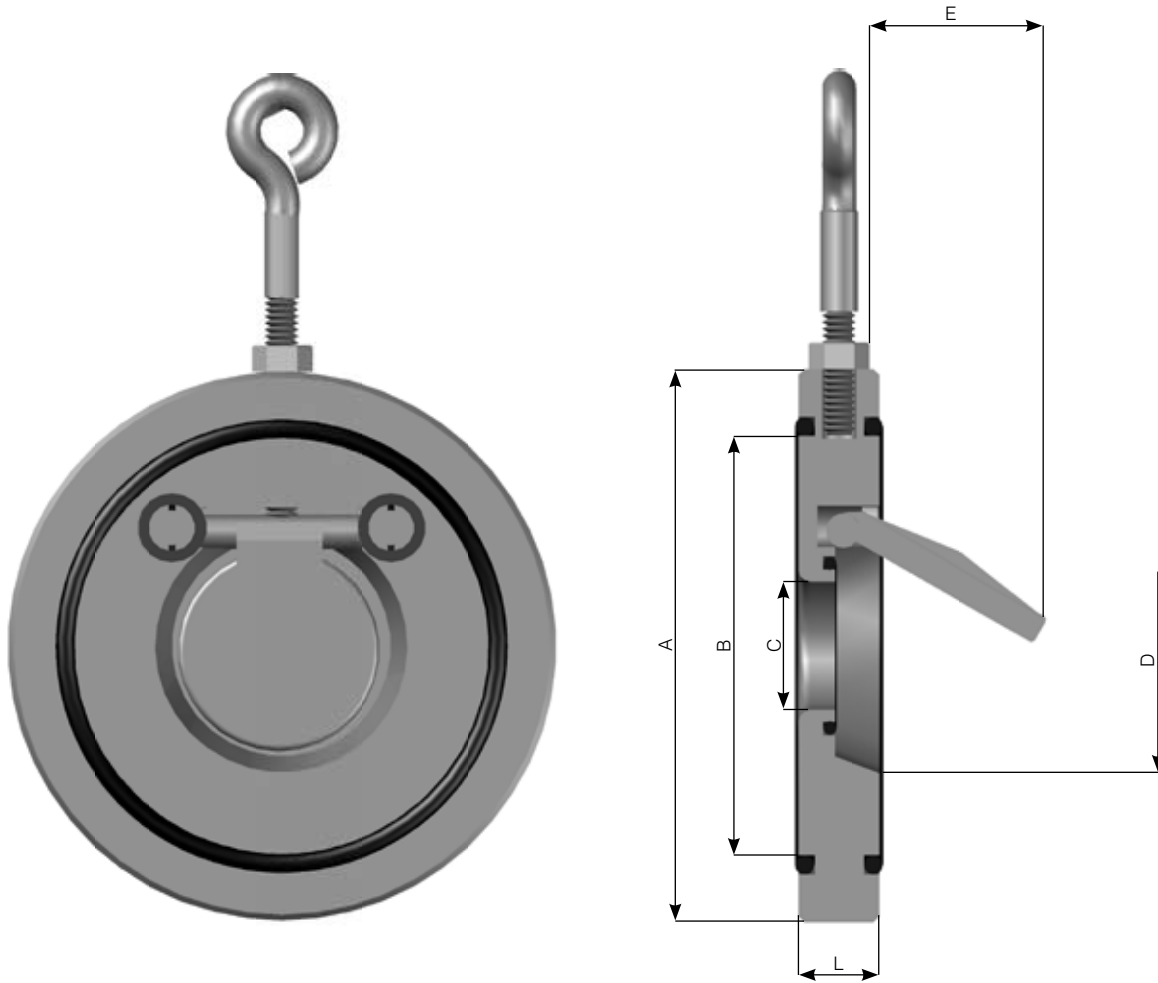
- Replace the disc, if excessive scratches and nicks noted. If lime stains and residue observed on the surface of the disc, clean the disc in water with wet sandpaper (400).
- Replace O-rings.
- Inspect bolt threads and replace damaged ones.
- Inspect the bolts and studs on the line, replace damaged 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.

# FAF 2300 & 2330

## DIMENSIONS AND PRODUCT DATA



### FAF 2300 & 2330 WAFER SWING CHECK VALVES

| DN<br>Ømm | A   | B   | C   | D   | E   | L  | Weight<br>Kg |
|-----------|-----|-----|-----|-----|-----|----|--------------|
| 25        | 71  | 52  | 11  | 29  | 18  | 14 | 0.39         |
| 32        | 81  | 63  | 17  | 36  | 23  | 14 | 0.5          |
| 40        | 93  | 71  | 21  | 44  | 27  | 14 | 0.64         |
| 50        | 109 | 92  | 32  | 60  | 38  | 14 | 0.86         |
| 65        | 129 | 102 | 40  | 72  | 48  | 14 | 1.19         |
| 80        | 144 | 123 | 52  | 88  | 58  | 14 | 1.53         |
| 100       | 164 | 140 | 70  | 104 | 77  | 18 | 2.23         |
| 125       | 194 | 164 | 92  | 128 | 98  | 18 | 3.14         |
| 150       | 220 | 193 | 110 | 155 | 114 | 20 | 3.95         |
| 200       | 175 | 245 | 163 | 206 | 140 | 22 | 6.35         |
| 250       | 330 | 302 | 193 | 240 | 188 | 26 | 11.28        |
| 300       | 380 | 344 | 234 | 288 | 225 | 28 | 16.43        |
| 350       | 440 | 387 | 270 | 330 | 275 | 35 | 24.35        |
| 400       | 490 | 437 | 305 | 370 | 305 | 40 | 33.6         |