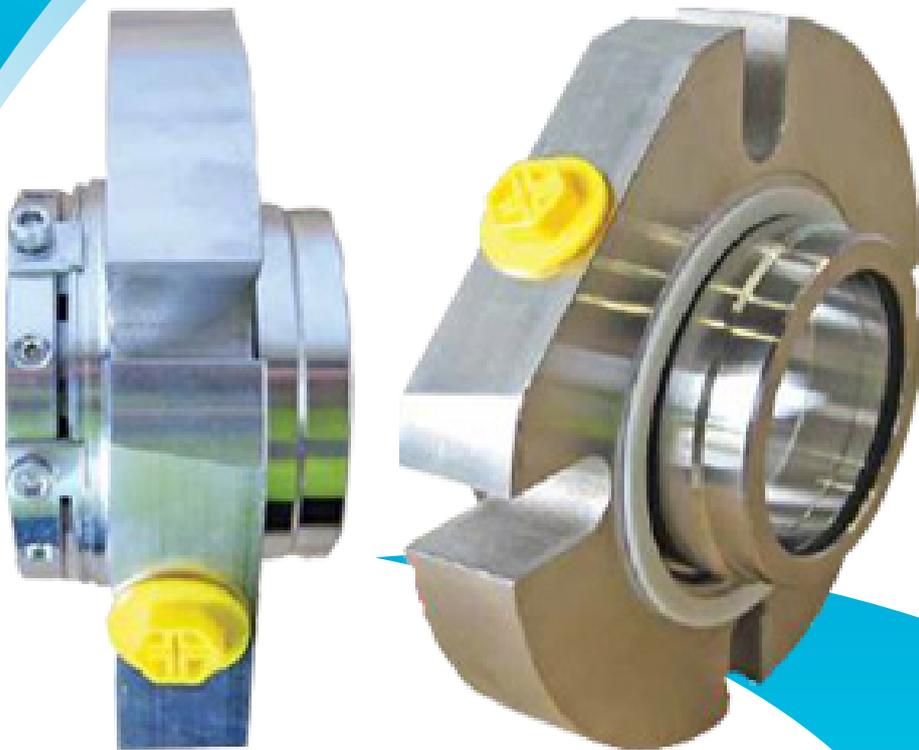




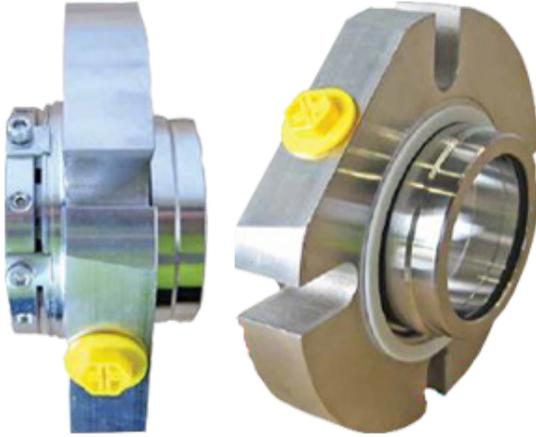
Series MS
Mechanical Seals
F22 Cartridge Seals



MECHANICAL SEALS

F22 Series - Cartridge Seals

The Aquaplus F22 is a robust, bi-directional, multi-spring, single balanced cartridge mechanical seal. This seal type has a positive drive via drive bands which protects the bellows from torsional strain. The seal is a hydraulically balanced cartridge seal with protected multi springs, it has cooler running faces, longer life and can operate at higher temperatures.



Features

- Cartridge design
- Easy installation
- Hydraulically balanced seal faces
- Springs isolated from the process liquid
- Auto aligning seal faces
- No fretting
- Full faced gland plate

Options

- Flushing port (Standard)
- Quenching ports
- Or both

Applications

Major use: Oil, Water, chemicals, sludges, slurries in such industries as Wastewater treatment, Mining, Mineral processing, Pulp & Paper, Food processing, Marine and any other general application.

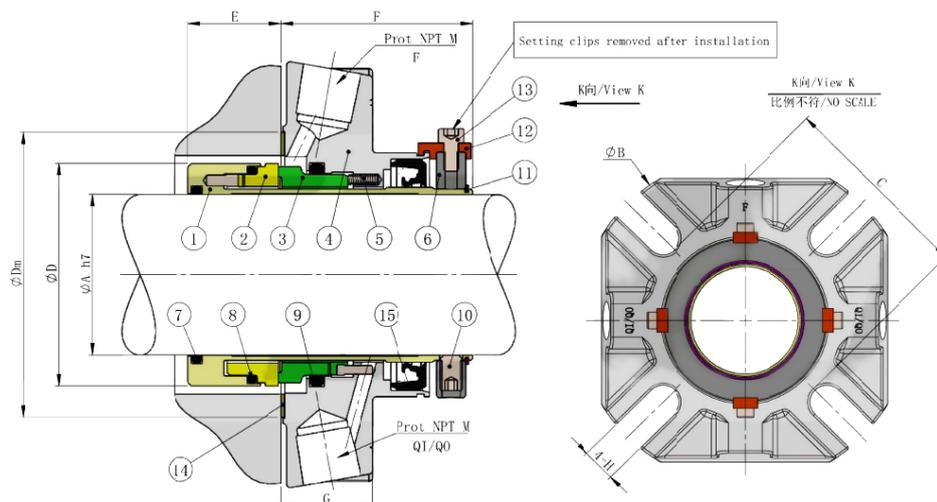
Operating Limitations

- Temperature: -40°C to +230°C
- Pressure in seal chamber: up to 25 Bar
- Linear velocity: up to 25 M/Sec.

Materials

- Metal components
 - Standard SUS316
 - Options Hastelloy, Duplex 2205
- Seal faces
 - Standard SSiC V's SSiC (Sintered)
 - Silicon Carbide)
 - Options RSiC, TC, Carbon, Ceramic
- Elastomers
 - Standard FPM
 - Options Kalrez, NBR, EPDM, PTFE

Technical Data



All content is subject to change without notice.

Technical Data (cont.)

| | A | B | C | D | Dm | E | F | G | H | M |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| mm | 25 | 105.0 | 62.0 | 43.0 | 60.0 | 26.1 | 53.4 | 25.5 | 13.2 | 1/4" |
| inches | 1.000 | 4.134 | 2.440 | 1.693 | 2.362 | 1.028 | 2.102 | 1.003 | 0.520 | 1/4" |
| mm | 28 | 105.0 | 62.0 | 46.0 | 60.0 | 26.1 | 53.4 | 25.5 | 13.2 | 1/4" |
| inches | 1.125 | 4.134 | 2.440 | 1.811 | 2.362 | 1.028 | 2.102 | 1.003 | 0.520 | 1/4" |
| mm | 30 | 105.0 | 67.0 | 48.0 | 65.0 | 26.1 | 53.4 | 25.5 | 13.2 | 1/4" |
| inches | 1.250 | 4.330 | 2.760 | 2.000 | 2.250 | 1.028 | 2.102 | 1.003 | 0.520 | 1/4" |
| mm | 32 | 110.0 | 70.0 | 50.0 | 65.0 | 26.1 | 53.4 | 25.5 | 13.2 | 1/4" |
| inches | 1.375 | 4.449 | 2.840 | 2.087 | 2.677 | 1.028 | 2.102 | 1.003 | 0.520 | 1/4" |
| mm | 33 | 110.0 | 70.0 | 50.0 | 65.0 | 26.1 | 53.4 | 25.5 | 13.2 | 1/4" |
| inches | 1.500 | 4.842 | 3.149 | 2.205 | 2.874 | 1.028 | 2.102 | 1.003 | 0.520 | 3/8" |
| mm | 35 | 113.0 | 72.0 | 53.0 | 68.0 | 26.1 | 53.4 | 25.5 | 13.2 | 1/4" |
| inches | 1.625 | 4.842 | 3.149 | 2.402 | 3.071 | 1.028 | 2.102 | 1.003 | 0.599 | 3/8" |
| mm | 38 | 135.0 | 72.0 | 56.0 | 78.0 | 26.1 | 53.4 | 25.5 | 14.2 | 3/8" |
| inches | 1.750 | 5.433 | 3.248 | 2.461 | 3.110 | 1.028 | 2.102 | 1.003 | 0.599 | 3/8" |
| mm | 40 | 135.0 | 80.0 | 58.0 | 78.0 | 26.1 | 53.4 | 25.5 | 14.2 | 3/8" |
| inches | 1.875 | 5.433 | 3.248 | 2.579 | 3.228 | 1.028 | 2.102 | 1.003 | 0.599 | 3/8" |
| mm | 42 | 135.0 | 80.0 | 61.0 | 78.0 | 26.1 | 53.4 | 25.5 | 14.2 | 3/8" |
| inches | 2.000 | 5.905 | 3.818 | 2.677 | 3.346 | 1.028 | 2.102 | 1.003 | 0.599 | 3/8" |
| mm | 43 | 135.0 | 80.0 | 61.0 | 78.0 | 26.1 | 53.4 | 25.5 | 14.2 | 3/8" |
| inches | 2.125 | 5.905 | 3.818 | 2.874 | 3.465 | 1.028 | 2.102 | 1.003 | 0.709 | 3/8" |
| mm | 45 | 138.0 | 82.5 | 62.5 | 79.0 | 26.1 | 53.4 | 25.5 | 14.2 | 3/8" |
| inches | 2.250 | 6.181 | 4.020 | 3.071 | 3.937 | 1.028 | 2.102 | 1.003 | 0.709 | 3/8" |
| mm | 48 | 138.0 | 82.5 | 65.5 | 82.0 | 26.1 | 53.4 | 25.5 | 14.2 | 3/8" |
| inches | 2.375 | 6.417 | 4.290 | 3.212 | 4.213 | 1.028 | 2.102 | 1.003 | 0.709 | 3/8" |
| mm | 50 | 150.0 | 87.0 | 68.0 | 85.0 | 26.1 | 53.4 | 25.5 | 14.2 | 3/8" |
| inches | 2.500 | 6.417 | 4.290 | 3.339 | 4.213 | 1.028 | 2.102 | 1.003 | 0.709 | 3/8" |
| mm | 53 | 150.0 | 97.0 | 72.0 | 95.0 | 26.1 | 53.4 | 25.5 | 18.0 | 3/8" |
| inches | 2.625 | 7.008 | 4.660 | 3.661 | 4.567 | 1.028 | 2.102 | 1.003 | 0.709 | 3/8" |
| mm | 55 | 150.0 | 97.0 | 73.0 | 88.0 | 26.1 | 53.4 | 25.5 | 18.0 | 3/8" |
| inches | 2.750 | 7.283 | 4.960 | 3.858 | 3.779 | 1.028 | 2.102 | 1.003 | 0.709 | 3/8" |
| mm | 60 | 157.0 | 102.0 | 78.0 | 100.0 | 26.1 | 53.4 | 25.5 | 18.0 | 3/8" |
| inches | 2.875 | 7.480 | 5.079 | 3.937 | 4.921 | 1.343 | 2.516 | 1.002 | 0.709 | 3/8" |
| mm | 65 | 165.0 | 109.0 | 84.8 | 107.0 | 26.1 | 53.4 | 25.5 | 18.0 | 3/8" |
| inches | 3.000 | 7.677 | 5.197 | 4.189 | 5.157 | 1.343 | 2.516 | 1.002 | 0.709 | 3/8" |
| mm | 70 | 178.0 | 118.5 | 93.0 | 116.0 | 26.1 | 53.4 | 28.0 | 18.0 | 3/8" |
| inches | 3.125 | 7.677 | 5.315 | 4.212 | 4.113 | 1.343 | 2.516 | 1.002 | 0.709 | 3/8" |
| mm | 75 | 190.0 | 129.0 | 100.0 | 125.0 | 34.1 | 63.9 | 28.0 | 18.0 | 3/8" |
| inches | 3.250 | 7.795 | 5.472 | 4.311 | 5.315 | 1.343 | 2.516 | 1.002 | 0.709 | 3/8" |
| mm | 80 | 195.0 | 135.0 | 106.4 | 131.0 | 34.1 | 63.9 | 28.0 | 18.0 | 3/8" |
| inches | 3.375 | 7.795 | 5.591 | 4.500 | 5.157 | 1.343 | 2.516 | 1.002 | 0.709 | 3/8" |
| mm | 85 | 198.0 | 139.0 | 109.5 | 135.0 | 34.1 | 63.9 | 28.0 | 22.0 | 3/8" |
| inches | 3.500 | 8.071 | 5.709 | 4.563 | 5.591 | 1.343 | 2.516 | 1.002 | 0.709 | 3/8" |
| mm | 90 | 205.0 | 145.0 | 115.9 | 142.0 | 34.1 | 63.9 | 28.0 | 22.0 | 3/8" |
| inches | 3.625 | 8.189 | 5.827 | 4.689 | 5.709 | 1.343 | 2.516 | 1.002 | 0.709 | 3/8" |
| mm | 95 | 208.0 | 148.0 | 119.1 | 145.0 | 34.1 | 63.9 | 28.0 | 22.0 | 3/8" |
| inches | 3.750 | 8.583 | 6.063 | 4.937 | 5.945 | 1.343 | 2.516 | 1.002 | 0.709 | 3/8" |
| mm | 100 | 218.0 | 154.0 | 125.4 | 151.0 | 34.1 | 63.9 | 28.0 | 22.0 | 3/8" |
| inches | 4.000 | 8.583 | 6.063 | 4.937 | 5.945 | 1.343 | 2.516 | 1.002 | 0.709 | 3/8" |

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Aquaplus Product Range

ESDM Series – End Suction DIN (24255) Pumps

ESI Series – End Suction ISO (2585) Pumps

SP Series – Self Priming Pumps

SD Series – Submersible Dewatering Pumps

SS Series – Submersible Sewerage Pumps

ARJ Series – Aerators (Jet)

ARS Series – Aerators (Submersible)

AD Series – Air Diaphragm Pumps

FRM Series – Flexible Rising Main (Borehole Pump Hose)

MS Series – Mechanical Seals (Single Spring & Cartridge)

We are also able to provide Progressive Cavity, Peristaltic Pumps, Split Case Pumps and Magnetic Drive Pumps.

The logo for Aquaplus, featuring the word "Aquaplus" in a stylized, blue, italicized font with a wave-like underline.

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The logo for Malcolm Thompson Pumps, featuring a blue wave icon to the left of the text "MALCOLM THOMPSON PUMPS". "MALCOLM THOMPSON" is in a smaller, blue, sans-serif font, and "PUMPS" is in a larger, bold, blue, sans-serif font.

MALCOLM THOMPSON
PUMPS

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For information on these products or for any specialised requirements please contact your local Aquaplus distributor or visit our website at www.aquapluspumps.com.au