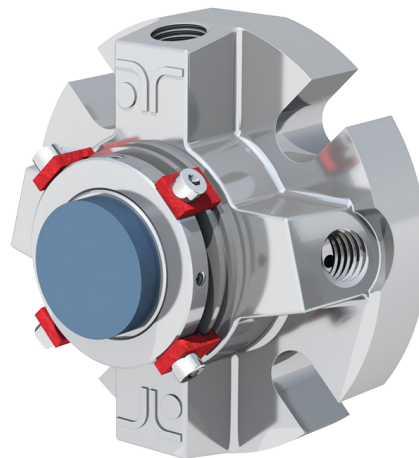


THOMSON MECHANICAL SEALS

TAC-33

Single multi spring cartridge seal with flush, quench and drain ports.


FEATURES

- Monolithic faces resistant to distortion at higher temperatures/pressures.
- Flexible, self-aligning stationary.
- Heat conduction ring.
- Quench and drain ports to clean and cool faces.
- Pre-assembled cartridge design.

APPLICATIONS

- General Service
- Process Pumps
- Clean to Light Slurry
- Water/Wastewater
- Irrigation
- Food and Beverage
- Pulp and Paper

OPERATING RANGE

All operating range information is dependent on media, materials of construction, and support systems used. Please contact A.R. Thomson mechanical seal services department for more information.

| | |
|-----------------------|---------------------------------|
| Pressure, Max: | 300 psig (21 bar) |
| Temperature: | -40°F to 400°F (-40°C to 204°C) |
| Speed, Max: | 5000 fpm (25 m/s) |

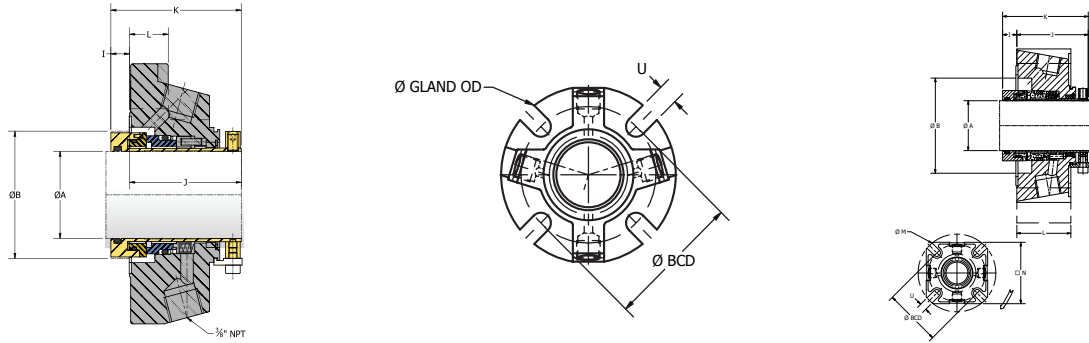
STANDARD MATERIALS

| | |
|---------------------|---------------------------------|
| Seal Faces: | TC, Carbon, Silicon Carbide |
| O-Rings: | FKM, EPDM, Nitrile, Aflas, FFKM |
| Springs: | Hastelloy C |
| Metallurgy*: | 316SS |

*Hastelloy C, Alloy 20 and Titanium available upon request.

See reverse for dimensional information.

Limitation of liability: actual performance may vary and is determined by factors unique to a given application. It is recommended that care be taken in the selection and application of materials for hazardous services and controlled testing be undertaken to determine suitability for a specific application. A.R. Thomson Group does not make or imply any warranty of suitability for a particular purpose and is not liable for any damages arising from the use of the information in this sheet. v1.4 WWW.ARTHOMSON.COM



TAC-33 STANDARD DIMENSIONS

| Shaft Diameter | Box Bore | | IB | OB | OAL | L | Gland Diameter | BCD | | Bolt Slot |
|----------------|----------|-------|-------|-------|-------|-------|----------------|--------|--------|-----------|
| | Min | Max | | | | | | Min | Max | |
| A | B | B | I | J | K | L | Gland OD | | | U |
| 1.000 | 1.626 | 1.970 | 0.346 | 1.953 | 2.299 | 0.587 | 3.835 | 2.803 | 3.311 | 0.524 |
| 1.125 | 1.752 | 2.057 | 0.390 | 1.976 | 2.366 | 0.756 | 4.008 | 2.929 | 3.488 | 0.520 |
| 1.250 | 1.874 | 2.309 | 0.346 | 2.020 | 2.366 | 0.736 | 4.134 | 3.213 | 3.610 | 0.524 |
| 1.375 | 2.094 | 2.439 | 0.366 | 2.000 | 2.366 | 0.736 | 4.724 | 3.228 | 4.173 | 0.551 |
| 1.500 | 2.252 | 2.675 | 0.417 | 2.043 | 2.461 | 0.736 | 4.756 | 3.598 | 4.232 | 0.524 |
| 1.625 | 2.374 | 2.789 | 0.346 | 2.114 | 2.461 | 0.736 | 4.882 | 3.768 | 4.319 | 0.563 |
| 1.750 | 2.481 | 2.876 | 0.386 | 2.075 | 2.461 | 0.736 | 5.000 | 3.874 | 4.437 | 0.563 |
| 1.875 | 2.626 | 2.931 | 0.417 | 2.043 | 2.461 | 0.736 | 5.000 | 3.874 | 4.437 | 0.563 |
| 2.000 | 2.756 | 3.108 | 0.311 | 2.287 | 2.598 | 0.736 | 5.382 | 4.000 | 4.819 | 0.563 |
| 2.125 | 2.874 | 3.321 | 0.378 | 2.220 | 2.598 | 0.736 | 5.740 | 4.469 | 5.055 | 0.685 |
| 2.250 | 3.000 | 3.525 | 0.366 | 2.232 | 2.598 | 0.740 | 6.382 | 4.567 | 5.697 | 0.685 |
| 2.375 | 3.126 | 3.659 | 0.366 | 2.232 | 2.598 | 0.740 | 6.382 | 4.720 | 5.697 | 0.685 |
| 2.500 | 3.374 | 3.856 | 0.138 | 2.461 | 2.598 | 0.756 | 6.634 | 5.000 | 5.949 | 0.685 |
| 2.625 | 3.626 | 4.053 | 0.429 | 2.287 | 2.717 | 0.756 | 6.634 | 5.169 | 5.949 | 0.685 |
| 2.750 | 3.626 | 4.053 | 0.429 | 2.287 | 2.717 | 0.756 | 6.634 | 5.169 | 5.949 | 0.685 |
| 2.875 | 3.752 | 4.230 | 0.429 | 2.287 | 2.717 | 0.756 | 6.882 | 5.311 | 6.197 | 0.685 |
| 3.000 | 4.000 | 4.431 | 0.394 | 2.323 | 2.717 | 0.756 | 7.634 | 5.720 | 6.823 | 0.811 |
| 3.125 | 4.126 | 4.785 | 0.413 | 2.390 | 2.803 | 1.524 | 7.756 | 5.846 | 6.945 | 0.811 |
| 3.250 | 4.134 | 4.679 | 0.425 | 2.378 | 2.803 | 0.630 | 7.319 | 5.846 | 6.508 | 0.811 |
| 3.375 | 4.374 | 5.033 | 0.413 | 2.390 | 2.803 | 1.524 | 8.008 | 6.094 | 7.197 | 0.811 |
| 3.500 | 4.500 | 5.041 | 0.413 | 2.390 | 2.803 | 1.524 | 8.134 | 6.220 | 7.323 | 0.811 |
| 3.625 | 4.626 | 5.203 | 0.413 | 2.390 | 2.803 | 1.525 | 8.256 | 6.252 | 7.571 | 0.811 |
| 3.750 | 4.724 | 5.384 | 0.413 | 2.390 | 2.803 | 1.525 | 8.634 | 6.654 | 7.949 | 0.811 |
| 4.000 | 5.000 | 5.625 | 0.417 | 2.386 | 2.803 | 1.524 | 8.882 | 6.760 | 8.071 | 0.811 |
| 4.500 | 5.500 | 6.183 | 0.413 | 2.390 | 2.803 | 1.524 | 9.382 | 7.260 | 8.571 | 0.811 |
| 4.750 | 5.751 | 6.315 | 0.413 | 2.390 | 2.803 | 1.524 | 10.256 | 7.456 | 9.444 | 0.811 |
| 5.000 | 6.760 | 7.260 | 0.425 | 2.831 | 3.256 | 2.110 | 11.882 | 9.882 | 11.071 | 0.811 |
| 5.250 | 7.012 | 7.512 | 0.425 | 2.831 | 3.256 | 2.110 | 12.134 | 10.134 | 11.323 | 0.811 |
| 5.500 | 7.500 | 8.000 | 0.425 | 2.831 | 3.256 | 2.110 | 12.567 | 10.382 | 11.630 | 0.937 |

BIG BORE DIMENSIONS

| Shaft Diameter | Box Bore | | IB | OB | OAL | L | Gland Diameter | BCD | | Bolt Slot |
|----------------|----------|-------|-------|-------|-------|-------|----------------|-------|-------|-----------|
| | Min | Max | | | | | | Min | Max | |
| A | B | B | I | J | K | L | M | | | U |
| 1.000 | 2.457 | 2.856 | 0.346 | 1.953 | 2.299 | 0.539 | 4.976 | 3.654 | 4.413 | 0.563 |
| 1.125 | 2.516 | 2.911 | 0.390 | 1.976 | 2.366 | 0.575 | 5.000 | 3.689 | 4.500 | 0.500 |
| 1.375 | 2.626 | 3.175 | 0.366 | 2.000 | 2.366 | 1.520 | 5.374 | 3.937 | 4.874 | 0.500 |
| 1.625 | 3.362 | 4.033 | 0.346 | 2.114 | 2.461 | 0.650 | 6.500 | 5.000 | 5.811 | 0.689 |
| 1.750 | 3.252 | 4.110 | 0.386 | 2.075 | 2.461 | 1.520 | 6.752 | 4.937 | 6.252 | 0.500 |
| 1.875 | 3.626 | 3.970 | 0.417 | 2.043 | 2.461 | 1.520 | 6.752 | 4.937 | 6.252 | 0.500 |
| 2.000 | 3.823 | 4.348 | 0.311 | 2.287 | 2.598 | 0.697 | 7.083 | 5.283 | 6.394 | 0.689 |
| 2.125 | 3.543 | 4.175 | 0.378 | 2.220 | 2.598 | 1.539 | 7.646 | 5.315 | 7.020 | 0.626 |
| 2.750 | 4.744 | 5.108 | 0.429 | 2.287 | 2.717 | 0.654 | 8.346 | 6.063 | 7.720 | 0.626 |
| 3.000 | 5.047 | 5.494 | 0.394 | 2.323 | 2.717 | 0.654 | 8.598 | 6.634 | 7.787 | 0.811 |
| 4.000 | 6.189 | 6.832 | 0.413 | 2.390 | 2.803 | 1.524 | 10.181 | 8.138 | 9.370 | 0.811 |