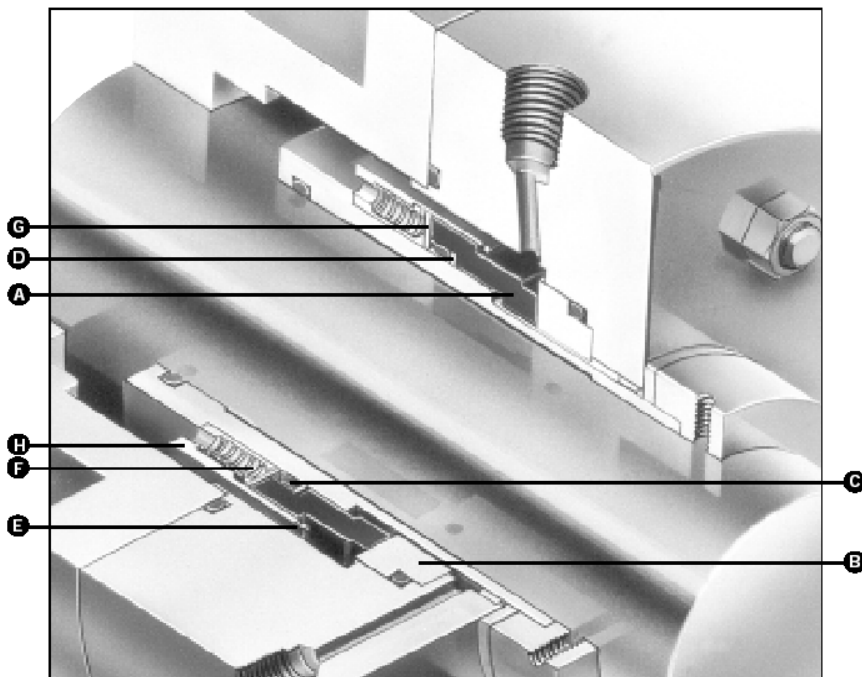




Type 58U and 58B

Elastomer O-Ring Seals



Industries Served

Chemical Processing
Food
Marine
Oil Refining
Petrochemical Processing
Power Generation
Water

- A** – Face/Primary Ring
- B** – Seat/Mating Ring
- C** – O-Ring
- D** – Anti-X Ring
- E** – Snap Ring
- F** – Spring
- G** – Disc
- H** – Retainer

58U/58B

Applications

The Type 58U and 58B are multi-spring DIN 24960/EN 12756 seals. They are versatile designs using components common to other o-ring and wedge type seals. They allow easy repair, reduce inventory, and permit a simple conversion to unbalanced or wedge seals.

- For use in general and high pressure sealing duties, including chemical processing, refinery and petrochemical plants.
- Complies with International Standard ISO 3069, European Standards EN 12756, DIN 24960, and BS 5257 1975. Also comply with API 610 specifications.

Design Features

- Hydraulically Balanced Seal Face Gives Lower Face loading at High Pressure.
- Multiple Spring Arrangement Ensures Even Loading of Seal Face.

Performance Capabilities

- **Temperature:**
-40°C to +260°C/-40°F to +500°F
depending on materials used
- **Pressure:**
Type 58U up to 17 bar g/250psig
Type 58B up to 62 bar g/900psig
- **Speed:**
Up to 25m/s/5000rpm

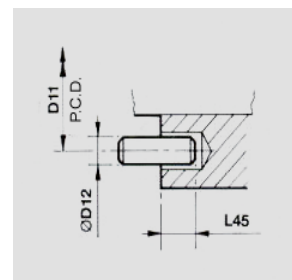
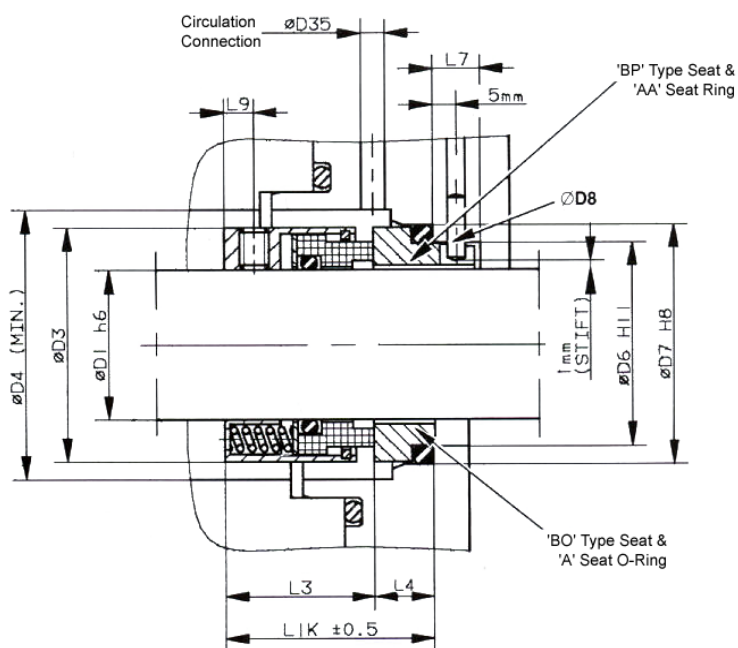


Type 58U

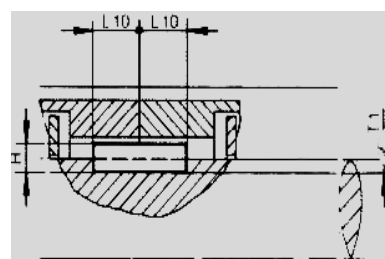
Elastomer O-Ring Seals

58U

Typical Arrangement / Dimensional Data



Alternative method of drive. Pin to be press fit in driving collar or impeller, and to engage in seal retainer as shown.



Alternative method of drive. Special retainer with key groove is available on request. Key dimensions acc. to DIN 6885.

Chart 1. Type 58U Metric Range Dimensional Data (mm)

| Seal Size D1 | Seal Size Code | D3 | D4 | D6 | D7 | D8 | D11 | D12 | L1K | L3 | L4 | L5 | L6 | L7 | D4F | D9 | E | L10 | B | H | T1 |
|--------------|----------------|-----|-----|-----|-----|----|-------|-----|------|------|------|-----|----|-----|-----|-----|---|-----|----|---|---------|
| 14 | 0140 | 24 | 26 | 21 | 25 | 3 | 18.4 | 3 | 35.0 | 23.0 | 12.0 | 1.5 | 4 | 8.5 | 28 | 30 | 4 | 7 | 5 | 3 | 1.9+0.1 |
| 16 | 0160 | 26 | 28 | 23 | 27 | 3 | 20.4 | 3 | 35.0 | 23.0 | 12.0 | 1.5 | 4 | 8.5 | 30 | 36 | 4 | 7 | 5 | 3 | 1.9+0.1 |
| 18 | 0180 | 32 | 34 | 27 | 33 | 3 | 24.5 | 4 | 37.5 | 24.0 | 13.5 | 2.0 | 5 | 9.0 | 36 | 38 | 4 | 7 | 5 | 3 | 1.9+0.1 |
| 20 | 0200 | 34 | 36 | 29 | 35 | 3 | 26.5 | 4 | 37.5 | 24.0 | 13.5 | 2.0 | 5 | 9.0 | 38 | 40 | 4 | 7 | 5 | 3 | 1.9+0.1 |
| 22 | 0220 | 36 | 38 | 31 | 37 | 3 | 28.5 | 4 | 37.5 | 24.0 | 13.5 | 2.0 | 5 | 9.0 | 40 | 42 | 4 | 8 | 6 | 4 | 2.5+0.1 |
| 24 | 0240 | 38 | 40 | 33 | 39 | 3 | 30.5 | 4 | 40.0 | 26.5 | 13.5 | 2.0 | 5 | 9.0 | 42 | 43 | 4 | 8 | 6 | 4 | 2.5+0.1 |
| 25 | 0250 | 39 | 41 | 34 | 40 | 3 | 31.5 | 4 | 40.0 | 27.0 | 13.0 | 2.0 | 5 | 9.0 | 43 | 46 | 4 | 8 | 6 | 4 | 2.5+0.1 |
| 28 | 0280 | 42 | 44 | 37 | 43 | 3 | 34.5 | 4 | 42.5 | 30.0 | 12.5 | 2.0 | 5 | 9.0 | 46 | 48 | 4 | 8 | 6 | 4 | 2.5+0.1 |
| 30 | 0300 | 44 | 46 | 39 | 45 | 3 | 36.5 | 4 | 42.5 | 30.5 | 12.0 | 2.0 | 5 | 9.0 | 48 | 50 | 4 | 8 | 6 | 4 | 2.5+0.1 |
| 32 | 0320 | 46 | 48 | 42 | 48 | 3 | 38.5 | 4 | 42.5 | 30.5 | 12.0 | 2.0 | 5 | 9.0 | 51 | 53 | 4 | 8 | 6 | 4 | 2.5+0.1 |
| 33 | 0330 | 47 | 49 | 42 | 48 | 3 | 39.5 | 4 | 42.5 | 30.5 | 12.0 | 2.0 | 5 | 9.0 | 51 | 53 | 4 | 8 | 6 | 4 | 2.5+0.1 |
| 35 | 0350 | 49 | 51 | 44 | 50 | 3 | 41.5 | 4 | 42.5 | 30.5 | 12.0 | 2.0 | 5 | 9.0 | 55 | 60 | 4 | 8 | 6 | 4 | 2.5+0.1 |
| 38 | 0380 | 54 | 58 | 49 | 56 | 4 | 45 | 4 | 45.0 | 32.0 | 13.0 | 2.0 | 6 | 9.0 | 60 | 62 | 6 | 8 | 6 | 4 | 2.5+0.1 |
| 40 | 0400 | 56 | 60 | 51 | 58 | 4 | 47 | 4 | 45.0 | 32.0 | 13.0 | 2.0 | 6 | 9.0 | 62 | 65 | 6 | 8 | 6 | 4 | 2.5+0.1 |
| 43 | 0430 | 59 | 63 | 54 | 61 | 4 | 50 | 4 | 45.0 | 32.0 | 13.0 | 2.0 | 6 | 9.0 | 65 | 67 | 6 | 8 | 6 | 4 | 2.5+0.1 |
| 45 | 0450 | 61 | 65 | 56 | 63 | 4 | 52 | 4 | 45.0 | 32.0 | 13.0 | 2.0 | 6 | 9.0 | 67 | 70 | 6 | 8 | 6 | 4 | 2.5+0.1 |
| 48 | 0480 | 64 | 68 | 59 | 65 | 4 | 55 | 4 | 45.0 | 32.0 | 13.0 | 2.0 | 6 | 9.0 | 70 | 72 | 6 | 8 | 6 | 4 | 2.5+0.1 |
| 50 | 0500 | 66 | 70 | 62 | 70 | 4 | 57 | 4 | 47.5 | 34.0 | 13.5 | 2.5 | 6 | 9.0 | 72 | 75 | 6 | 8 | 6 | 4 | 2.5+0.1 |
| 53 | 0530 | 69 | 73 | 65 | 73 | 4 | 60 | 4 | 47.5 | 34.0 | 13.5 | 2.5 | 6 | 9.0 | 75 | 77 | 6 | 8 | 6 | 4 | 2.5+0.1 |
| 55 | 0550 | 71 | 75 | 67 | 75 | 4 | 62 | 4 | 47.5 | 34.0 | 13.5 | 2.5 | 6 | 9.0 | 79 | 86 | 6 | 8 | 6 | 4 | 2.5+0.1 |
| 58 | 0580 | 78 | 83 | 70 | 78 | 4 | 67.5 | 5 | 52.5 | 39.0 | 13.5 | 2.5 | 6 | 9.0 | 86 | 88 | 6 | 10 | 8 | 5 | 3.1+0.2 |
| 60 | 0600 | 80 | 85 | 72 | 80 | 4 | 69.5 | 5 | 52.5 | 39.0 | 13.5 | 2.5 | 6 | 9.0 | 88 | 91 | 6 | 10 | 8 | 5 | 3.1+0.2 |
| 63 | 0630 | 83 | 88 | 75 | 83 | 4 | 72.5 | 5 | 52.5 | 39.0 | 13.5 | 2.5 | 6 | 9.0 | 91 | 93 | 6 | 10 | 8 | 5 | 3.1+0.2 |
| 65 | 0650 | 85 | 90 | 77 | 85 | 4 | 74.5 | 5 | 52.5 | 39.0 | 13.5 | 2.5 | 6 | 9.0 | 95 | 96 | 6 | 10 | 8 | 5 | 3.1+0.2 |
| 68 | 0680 | 88 | 93 | 81 | 90 | 4 | 77.5 | 5 | 52.5 | 39.0 | 13.5 | 2.5 | 7 | 9.0 | 96 | 98 | 6 | 10 | 8 | 5 | 3.1+0.2 |
| 70 | 0700 | 90 | 95 | 83 | 92 | 4 | 79.5 | 5 | 60.0 | 45.5 | 14.5 | 2.5 | 7 | 9.0 | 100 | 103 | 6 | 10 | 8 | 5 | 3.1+0.2 |
| 75 | 0750 | 99 | 104 | 88 | 97 | 4 | 83.5 | 5 | 60.0 | 45.5 | 14.5 | 2.5 | 7 | 9.0 | 105 | 108 | 6 | 10 | 8 | 5 | 3.1+0.2 |
| 80 | 0800 | 104 | 109 | 95 | 105 | 4 | 89.5 | 5 | 60.0 | 45.0 | 15.0 | 3.0 | 7 | 9.0 | 114 | 120 | 6 | 10 | 8 | 5 | 3.1+0.2 |
| 85 | 0850 | 109 | 114 | 100 | 110 | 4 | 94.5 | 5 | 60.0 | 45.0 | 15.0 | 3.0 | 7 | 9.0 | 119 | 125 | 6 | 10 | 8 | 5 | 3.1+0.2 |
| 90 | 0900 | 114 | 119 | 105 | 115 | 4 | 99.5 | 5 | 65.0 | 50.0 | 15.0 | 3.0 | 7 | 9.0 | 124 | 130 | 6 | 13 | 13 | 6 | 3.7+0.2 |
| 95 | 0950 | 119 | 124 | 110 | 120 | 4 | 104.5 | 5 | 65.0 | 50.0 | 15.0 | 3.0 | 7 | 9.0 | 132 | 135 | 6 | 13 | 13 | 6 | 3.7+0.2 |
| 100 | 1000 | 124 | 129 | 115 | 125 | 4 | 109.5 | 5 | 65.0 | 50.0 | 15.0 | 3.0 | 7 | 9.0 | 137 | 140 | 6 | 13 | 13 | 6 | 3.7+0.2 |

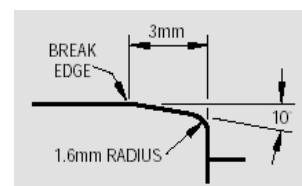
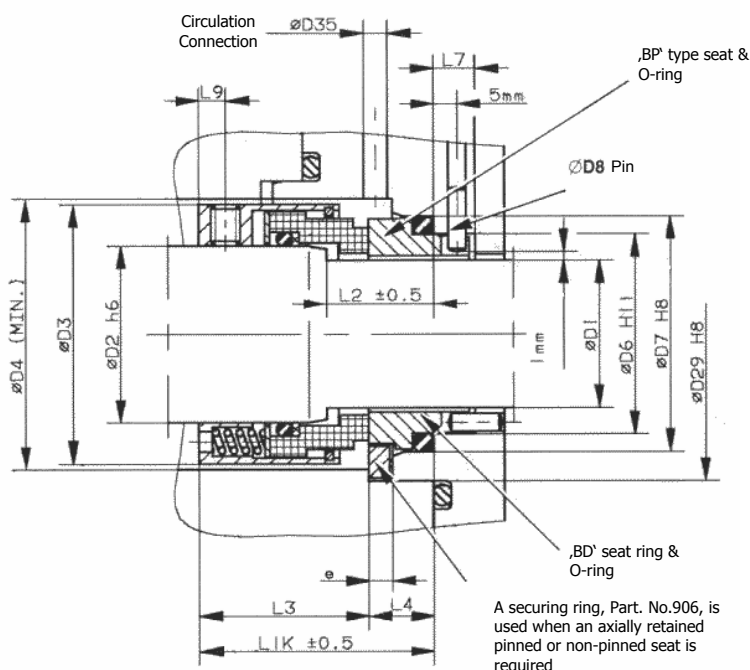


Type 58B

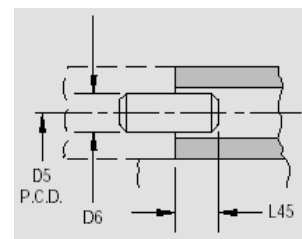
Elastomer O-Ring Seals

58B

Typical Arrangement / Dimensional Data



For ease of installation, the lead-in edge of the shaft or sleeve should be chamfered as shown.



Alternative Method of drive. Pin to be press fit in driving collar or impeller, and to engage in seal retainer as shown.

Chart 2. Type 58B Metric Range Dimensional Data (mm)

| Seal Size D1 | Seal Size Code | D2 | D3 | D4 | D6 | D7 | D8 | D11 | D12 | L1K* | L2 | L3 | L4 | L5 | L6 | L7 | D4F | D9 | E | L10 | B | H | T1 | |
|--------------|----------------|-----|-----|-----|-----|-----|----|-------|-----|------|----|------|------|-----|----|-----|-----|-----|---|-----|----|---|---------|--|
| 14 | 0140 | 18 | 32 | 34 | 21 | 25 | 3 | 24.5 | 4 | 42.5 | 18 | 30.5 | 12.0 | 1.5 | 4 | 8.5 | 36 | 38 | 4 | 7 | 5 | 3 | 1.9+0.1 | |
| 16 | 0160 | 20 | 34 | 36 | 23 | 27 | 3 | 26.5 | 4 | 42.5 | 18 | 30.5 | 12.0 | 1.5 | 4 | 8.5 | 38 | 40 | 4 | 7 | 5 | 3 | 1.9+0.1 | |
| 18 | 0180 | 22 | 36 | 38 | 27 | 33 | 3 | 28.5 | 4 | 45.0 | 20 | 31.5 | 13.5 | 2.0 | 5 | 9.0 | 40 | 42 | 4 | 7 | 6 | 4 | 2.5+0.1 | |
| 20 | 0200 | 24 | 38 | 40 | 29 | 35 | 3 | 30.5 | 4 | 45.0 | 20 | 31.5 | 13.5 | 2.0 | 5 | 9.0 | 42 | 43 | 4 | 7 | 6 | 4 | 2.5+0.1 | |
| 22 | 0220 | 26 | 40 | 42 | 31 | 37 | 3 | 32.5 | 4 | 45.0 | 20 | 31.5 | 13.5 | 2.0 | 5 | 9.0 | 44 | 46 | 4 | 8 | 6 | 4 | 2.5+0.1 | |
| 24 | 0240 | 28 | 42 | 44 | 33 | 39 | 3 | 34.5 | 4 | 47.5 | 20 | 34.2 | 13.5 | 2.0 | 5 | 9.0 | 46 | 48 | 4 | 8 | 6 | 4 | 2.5+0.1 | |
| 25 | 0250 | 30 | 44 | 46 | 34 | 40 | 3 | 36.5 | 4 | 47.5 | 20 | 34.5 | 13.0 | 2.0 | 5 | 9.0 | 48 | 50 | 4 | 8 | 6 | 4 | 2.5+0.1 | |
| 28 | 0280 | 33 | 47 | 49 | 37 | 43 | 3 | 39.5 | 4 | 50.0 | 20 | 37.5 | 12.5 | 2.0 | 5 | 9.0 | 51 | 53 | 4 | 8 | 6 | 4 | 2.5+0.1 | |
| 30 | 0300 | 35 | 49 | 51 | 39 | 45 | 3 | 41.5 | 4 | 50.0 | 20 | 38.0 | 12.0 | 2.0 | 5 | 9.0 | 55 | 60 | 4 | 8 | 6 | 4 | 2.5+0.1 | |
| 32 | 0320 | 38 | 54 | 58 | 42 | 48 | 3 | 45.0 | 4 | 50.0 | 20 | 38.0 | 12.0 | 2.0 | 5 | 9.0 | 60 | 62 | 4 | 8 | 6 | 4 | 2.5+0.1 | |
| 33 | 0330 | 38 | 54 | 58 | 42 | 48 | 3 | 45.0 | 4 | 50.0 | 20 | 38.0 | 12.0 | 2.0 | 5 | 9.0 | 60 | 62 | 4 | 8 | 6 | 4 | 2.5+0.1 | |
| 35 | 0350 | 40 | 56 | 60 | 44 | 50 | 3 | 47.0 | 4 | 50.0 | 20 | 38.0 | 12.0 | 2.0 | 5 | 9.0 | 62 | 65 | 4 | 8 | 6 | 4 | 2.5+0.1 | |
| 38 | 0380 | 43 | 59 | 63 | 49 | 56 | 4 | 50.0 | 4 | 52.5 | 23 | 39.5 | 13.0 | 2.0 | 6 | 9.0 | 65 | 67 | 6 | 8 | 6 | 4 | 2.5+0.1 | |
| 40 | 0400 | 45 | 61 | 65 | 51 | 58 | 4 | 52.0 | 4 | 52.5 | 23 | 39.5 | 13.0 | 2.0 | 6 | 9.0 | 67 | 70 | 6 | 8 | 6 | 4 | 2.5+0.1 | |
| 43 | 0430 | 48 | 64 | 68 | 54 | 61 | 4 | 55.0 | 4 | 52.5 | 23 | 39.5 | 13.0 | 2.0 | 6 | 9.0 | 70 | 72 | 6 | 8 | 6 | 4 | 2.5+0.1 | |
| 45 | 0450 | 50 | 66 | 70 | 56 | 63 | 4 | 57.0 | 4 | 52.5 | 23 | 39.5 | 13.0 | 2.0 | 6 | 9.0 | 72 | 75 | 6 | 8 | 6 | 4 | 2.5+0.1 | |
| 48 | 0480 | 53 | 69 | 73 | 59 | 66 | 4 | 60.0 | 4 | 52.5 | 23 | 39.5 | 13.0 | 2.0 | 6 | 9.0 | 75 | 77 | 6 | 8 | 6 | 4 | 2.5+0.1 | |
| 50 | 0500 | 55 | 71 | 75 | 62 | 70 | 4 | 62.0 | 4 | 57.5 | 25 | 44.0 | 13.5 | 2.5 | 6 | 9.0 | 79 | 86 | 6 | 8 | 6 | 4 | 2.5+0.1 | |
| 53 | 0530 | 58 | 78 | 83 | 65 | 73 | 4 | 67.5 | 5 | 57.5 | 25 | 44.0 | 13.5 | 2.5 | 6 | 9.0 | 86 | 88 | 6 | 8 | 8 | 5 | 3.1+0.2 | |
| 55 | 0550 | 60 | 80 | 85 | 67 | 75 | 4 | 69.5 | 5 | 57.5 | 25 | 44.0 | 13.5 | 2.5 | 6 | 9.0 | 88 | 91 | 6 | 8 | 8 | 5 | 3.1+0.2 | |
| 58 | 0580 | 63 | 83 | 88 | 70 | 78 | 4 | 72.5 | 5 | 62.5 | 25 | 49.0 | 13.5 | 2.5 | 6 | 9.0 | 91 | 93 | 6 | 10 | 8 | 5 | 3.1+0.2 | |
| 60 | 0600 | 65 | 85 | 90 | 72 | 80 | 4 | 74.5 | 5 | 62.5 | 25 | 49.0 | 13.5 | 2.5 | 6 | 9.0 | 95 | 96 | 6 | 10 | 8 | 5 | 3.1+0.2 | |
| 63 | 0630 | 68 | 88 | 93 | 75 | 83 | 4 | 77.5 | 5 | 62.5 | 25 | 49.0 | 13.5 | 2.5 | 6 | 9.0 | 96 | 98 | 6 | 10 | 8 | 5 | 3.1+0.2 | |
| 65 | 0650 | 70 | 90 | 95 | 77 | 85 | 4 | 79.5 | 5 | 62.5 | 25 | 49.0 | 13.5 | 2.5 | 6 | 9.0 | 100 | 103 | 6 | 10 | 8 | 5 | 3.1+0.2 | |
| 68 | | | | | | | | | | | | | | | | | | | | | | | | |
| 70 | 0700 | 75 | 95 | 104 | 83 | 92 | 4 | 83.5 | 5 | 70.0 | 28 | 55.5 | 14.5 | 2.5 | 7 | 9.0 | 105 | 108 | 6 | 10 | 8 | 5 | 3.1+0.2 | |
| 75 | 0750 | 80 | 104 | 109 | 88 | 97 | 4 | 89.5 | 5 | 70.0 | 28 | 55.5 | 14.5 | 2.5 | 7 | 9.0 | 114 | 120 | 6 | 10 | 8 | 5 | 3.1+0.2 | |
| 80 | 0800 | 85 | 109 | 114 | 95 | 105 | 4 | 94.5 | 5 | 70.0 | 28 | 55.0 | 15.0 | 3.0 | 7 | 9.0 | 119 | 125 | 6 | 10 | 8 | 5 | 3.1+0.2 | |
| 85 | 0850 | 90 | 114 | 119 | 100 | 110 | 4 | 99.5 | 5 | 75.0 | 28 | 60.0 | 15.0 | 3.0 | 7 | 9.0 | 124 | 130 | 6 | 10 | 10 | 6 | 3.7+0.2 | |
| 90 | 0900 | 95 | 119 | 124 | 105 | 115 | 4 | 104.5 | 5 | 75.0 | 28 | 60.0 | 15.0 | 3.0 | 7 | 9.0 | 132 | 135 | 6 | 13 | 10 | 6 | 3.7+0.2 | |
| 95 | 0950 | 100 | 124 | 129 | 110 | 120 | 4 | 109.5 | 5 | 75.0 | 28 | 60.0 | 15.0 | 3.0 | 7 | 9.0 | 137 | 140 | 6 | 13 | 10 | 6 | 3.7+0.2 | |
| 100 | 1000 | 105 | 129 | 134 | 115 | 125 | 4 | 114.5 | 5 | 75.0 | 28 | 60.0 | 15.0 | 3.0 | 7 | 9.0 | 142 | 145 | 6 | 13 | 10 | 6 | 3.7+0.2 | |



Type 58U and 58B

Elastomer O-Ring Seals

58U/58B

Chart 3. Operating Limits

| Pressure | | Temperature | Speed |
|------------------|------------------|------------------|------------------|
| Operating | Static | | |
| Refer to chart 4 | Refer to chart 9 | Refer to chart 7 | Refer to chart 5 |

Chart 5. Speed Limits

Rotating seals may be used at speeds up to 5000 rpm according to seal size. Above the limit shown, it is necessary to stationary mount the seal unit and use a rotating seat. This would necessitate a special arrangement and would not conform to DIN 24960

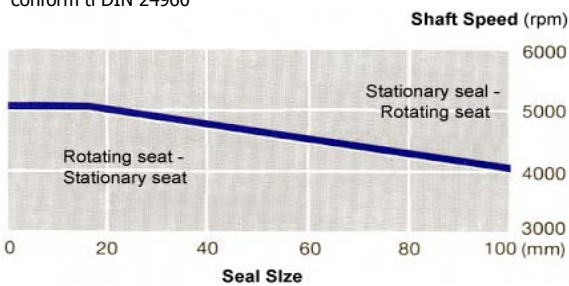
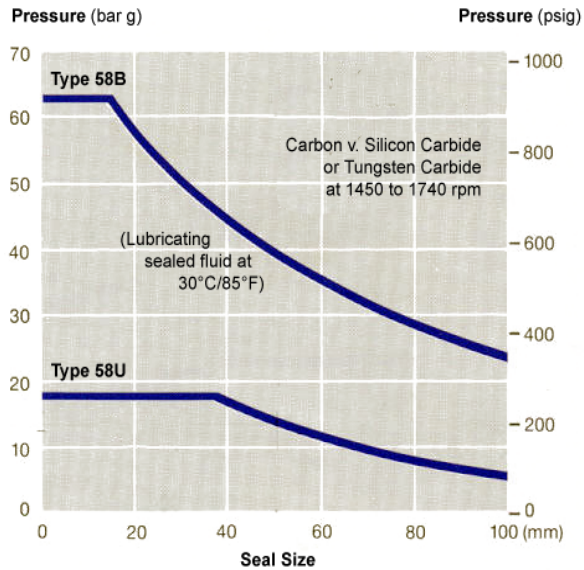


Chart 4. Pressure/Velocity (PV) Limits



To determine maximum pressure for the size of Type 58U or Type 58B seal required, multiply the pressure obtained from this chart by the appropriate factors given in Chart 6.

Chart 6. Multiplier Factors

| | Selection Considerations | Press. Factor |
|--------------------------|---|---------------|
| Sealed Fluid Lubricity | Petrol, kerosene or better | X 1.00 |
| | Water, aqueous solutions, Lighter hydrocarbons (s.g. < 0.65), etc | x 0.75 |
| Face and Seat Materials | Carbon v. tungsten carbide or silicon carbide | x 1.00 |
| | Carbon v alumina ceramic or ni-resist | x 0.60 |
| Sealed Fluid Temperature | Below 80°C/175°F | x 1.00 |
| | Above 80°C to 120°C/175°F to 250°F | x 0.90 |
| | Above 120°C to 180°C/250°F to 355°F | x 0.80 |
| | Above 180°C to 230°C/355°F to 445°F | x 0.65 |
| Speed | Up to 1800 rpm | x 1.00 |
| | Above 1800 to 3600 rpm | x 0.85 |

Example for Determining PV Limits:

Seal: 80 mm diameter Type 58B
 Product: Crude oil
 Face materials: Carbon v tungsten carbide
 Operating temperature: 35°C/95°F
 Operating speed: 2950 rpm

Using Chart 4, the maximum pressure would be 28 bar g

From Chart 6, apply the multiplier factors for the specific service requirements.

28 bar g x 0.85 x 1.00 x 1.00 x 1.00 = 23.8 bar g

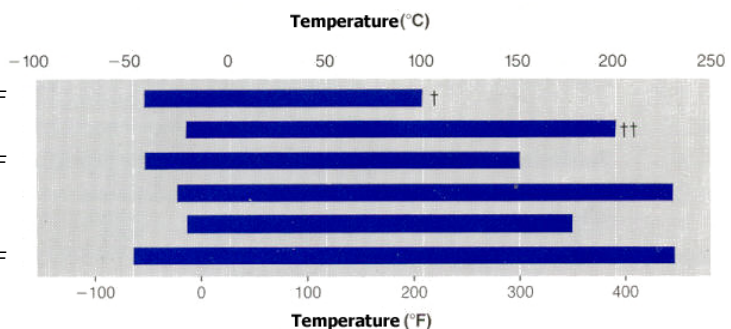
Therefore, for the example given, the maximum operating pressure is 23.8 bar g.

The operating parameters shown can be exceeded for certain applications. If the required operating pressure is greater than the calculated PV limit, please consult your John Crane Sales/Service Engineer.

Chart 7. Secondary Seal/Seat Ring Temperature Limits

Material

| | |
|---------------------|---------------------------------------|
| Medium Nitrite | -40 °C to +100 °C / -40 °F to +215 °F |
| Fluorocarbon | -20 °C to +200 °C / -5 °F to +390 °F |
| Ethylene Propylene* | -40 °C to +135 °C / -40 °F to +275 °F |
| Perfluoroelastomer | -20 °C to +260 °C / -5 °F to +500 °F |
| Pure PTFE | -20 °C to +180 °C / -5 °F to +355 °F |
| Glass Filled PTFE | -50 °C to +230 °C / -60 °F to +445 °F |



Note: Grafitite is not temperature limiting material.
 *Not to be used for hydrocarbons or mineral oils.

† for hydrocarbon duties the limit is +120 °C/250 °F
 †† for water duties the temperature should not exceed +135 °C/275 °F
 ††† for water/stream duties the temperature should not exceed +150 °C/300 °F



Type 58U and 58B

Elastomer O-Ring Seals

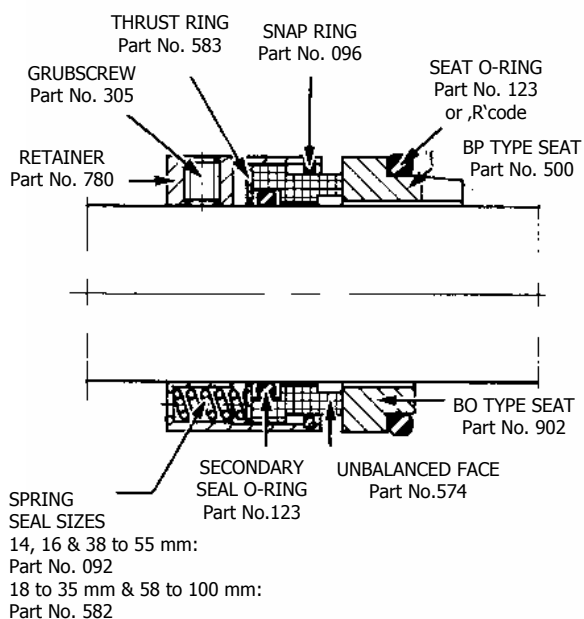
58U/58B

Chart 8. Component and Material Identification Codes

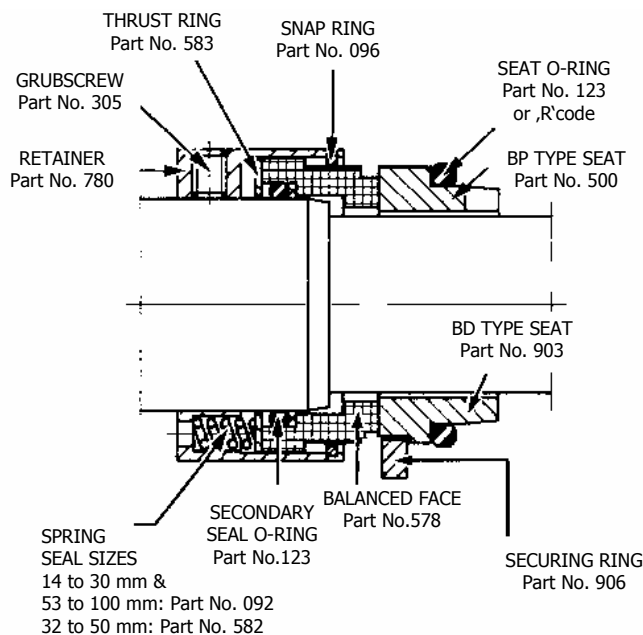
| SEAL COMPONENTS | | MATERIALS | | | |
|-----------------------|-------------|------------------------------|------|-----------------------------|------|
| Description | Part No. | Standard | | Options | |
| | | Material | Code | Material | Code |
| Balanced face | 574/578 | Resin impregnated carbon | 171 | Silicon carbide | 088 |
| | | | | Antimony impregnated carbon | 218 |
| Snap ring | 096 | 316 stainless steel | 001 | Monel | 011 |
| Grubscrew | 305 | | | Hastelloy C | 033 |
| Thrust ring | 583 | | | | |
| Retainer | 780 | | | | |
| Securing ring | 906 | | | | |
| Spring | 092 | | | | |
| Spring | 582 | | | | |
| Back-up ring | 564 | | | PTFE | 138 |
| Secondary Seal O-ring | 123 | Medium nitrile | 130 | Perfluorelastomer | 230 |
| Seat O-ring | 123 | Fluorocarbon | 134 | | 394 |
| | or 'R' code | Ethylene propylene | 135 | | |
| BO type seat | 902 | Ni-resist | 007 | - | - |
| BC type seat | 904 | Tungsten carbide | 025 | | |
| | | Ceramic | 059 | | |
| BP type seat | 500 | Ni-resist | 007 | Tungsten carbide | 025 |
| BD type seat | 903 | Silicon-free silicon carbide | 277 | | |
| Seat ring | 501 | PTFE | 138 | - | - |
| | | Glassed filled PTFE | 139 | | |
| | | Graftite® | 212 | | |

Component Parts Diagram

Type 58U



Type 58B





Type 58U and 58B

Elastomer O-Ring Seals

58U/58B

Chart 9. Hydrostatic Pressure Limits

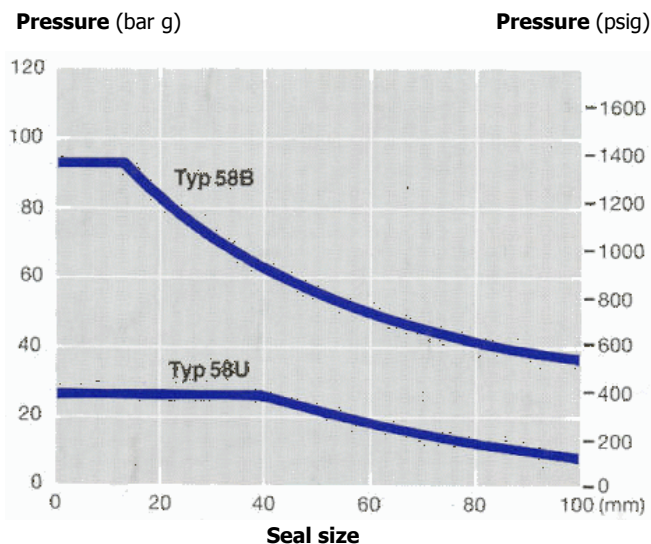


Chart 10. Criteria for Installation

| Shaft/Sleeve | Limits |
|---------------------------|-----------------------------------|
| Surface Finish | 0.3 to 0.6 μ m Ra Polished |
| Out-of-Round (Ovality) | ± 0.025 mm/ 0.001 in. |
| Axial Float (End Play) | ± 0.13 mm/ 0.005 in. |



John Crane

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For your nearest John Crane facility, please contact one of the locations above.

If the products featured will be used in a potentially dangerous and/or hazardous process, your John Crane representative should be consulted prior to their selection and use. In the interest of continuous development, John Crane Companies reserve the right to alter designs and specifications without prior notice. It is dangerous to smoke while handling products made from PTFE. Old and new PTFE products must not be incinerated.