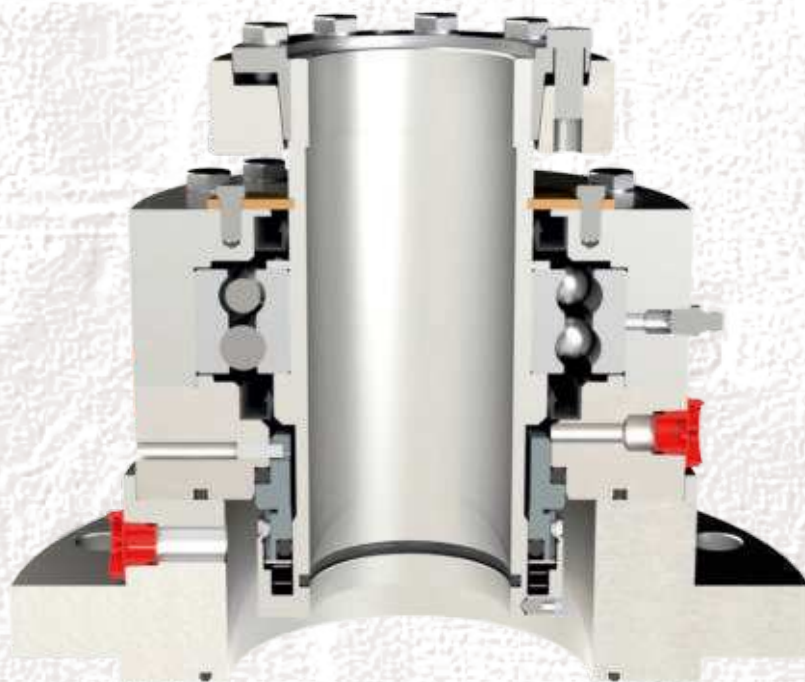


# **OMSG<sup>®</sup>** **MECHANICAL SEALS GERMANY**



**Mixer, agitator  
Mechanical seals**

**2-2CA**

**83K**

**EHS**

**7XB**

**7XC**

**7XE**

**74**

**RW184 / L**

**RW184D / L**

**RWVR5D / L**

**RWVR34D / L**

**Special versions**

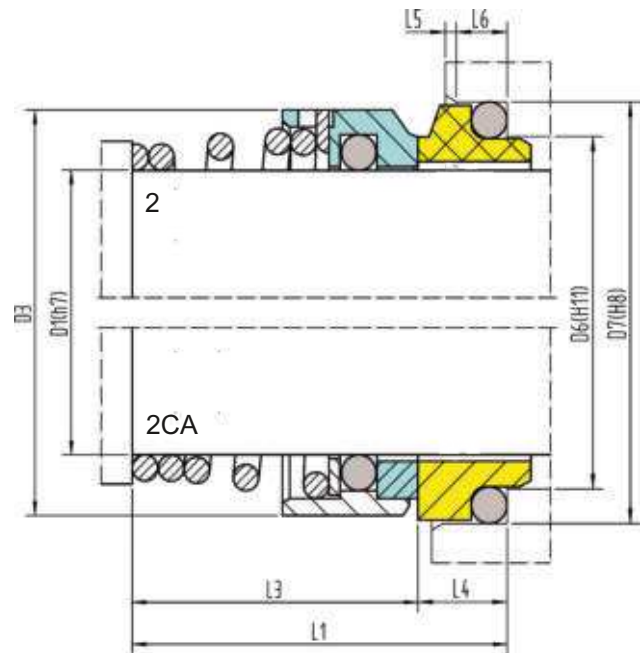
**Pharmaceutical ind.**

**Seal supply systems**

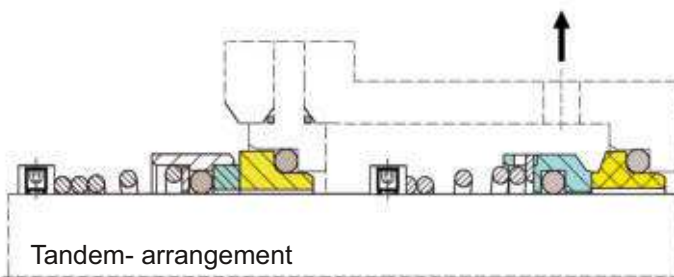
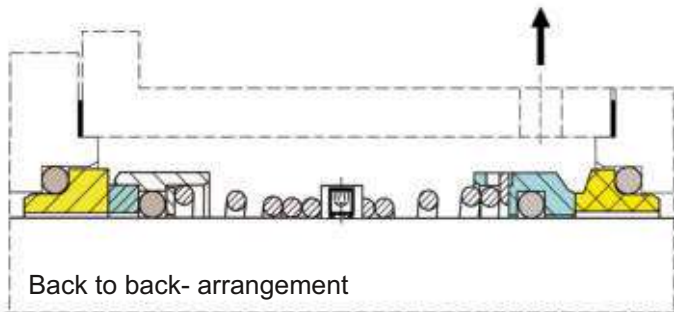
**Repair Service**

## 2-2CA

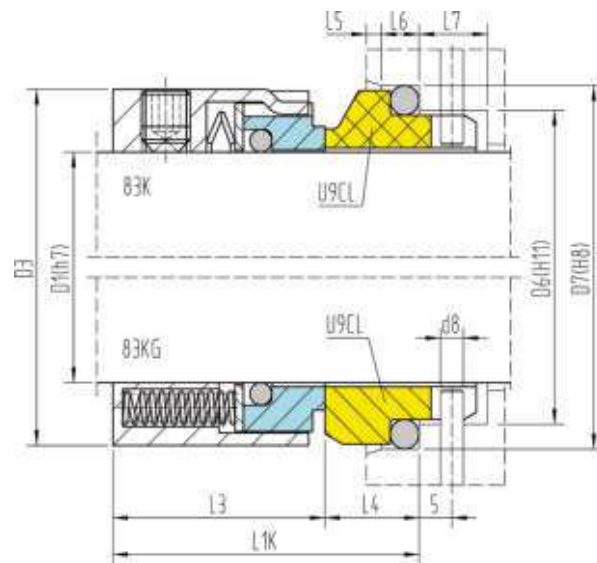
### Standard applications



Look at main catalogue 3.0 page 12-17



## 83K-83KG

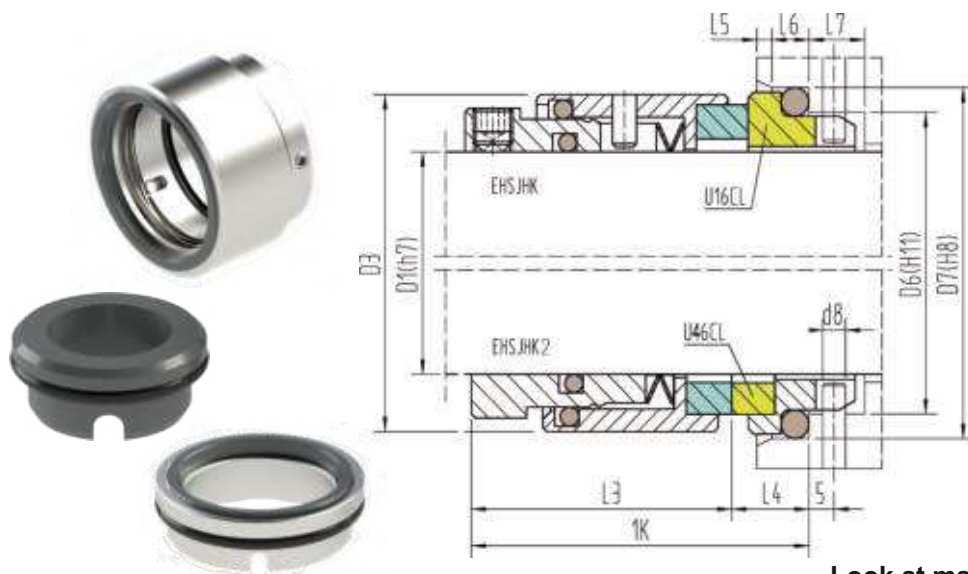


Look at main catalogue 3.0 page 28



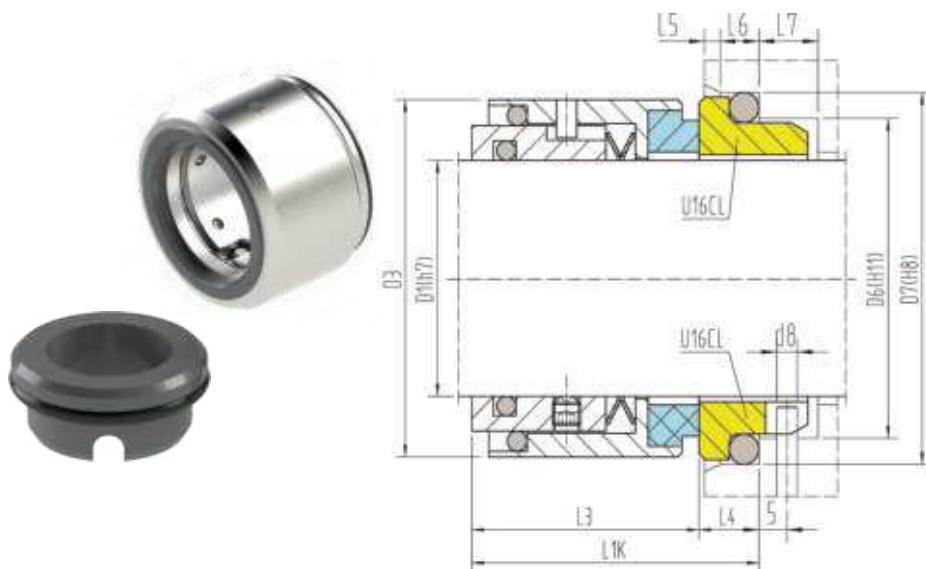
# EHSJHK-EHSJHK2

Solid - applications



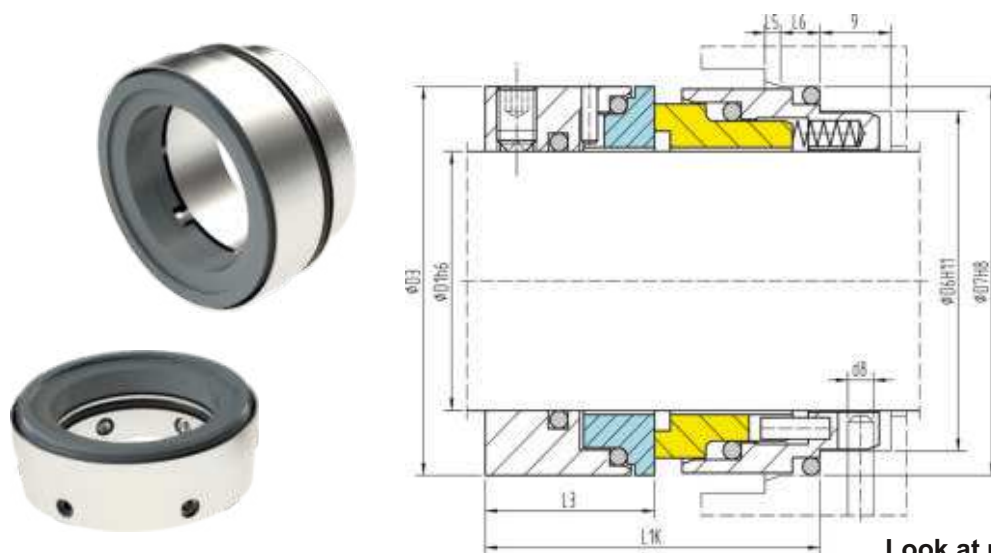
Look at main catalogue 3.0 page 44-45

## EHSKS



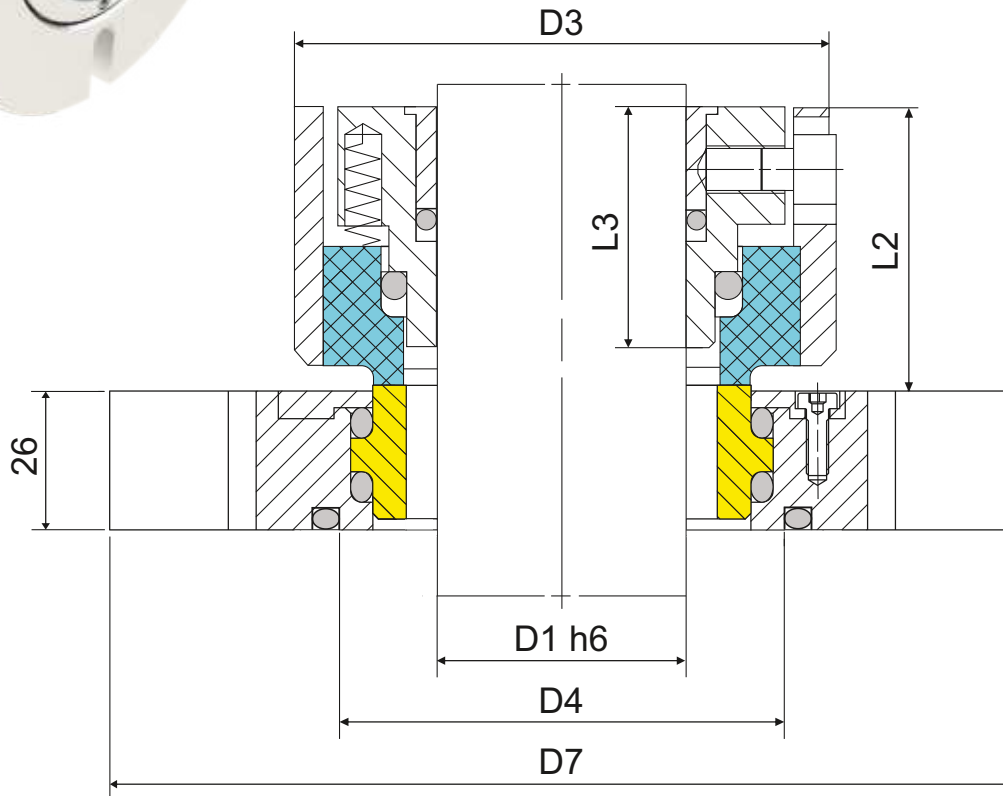
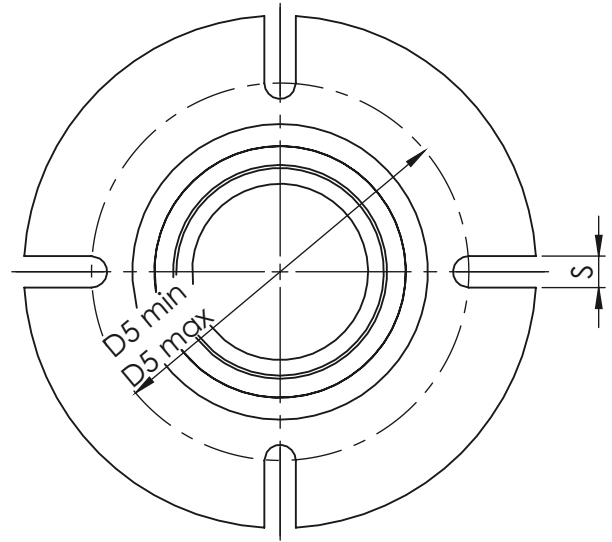
Look at main catalogue 3.0 page 47

## EHS9

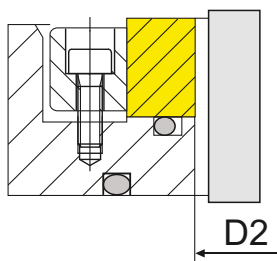


Look at main catalogue 3.0 page 50

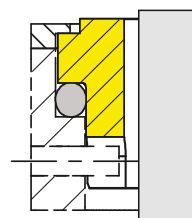
Dry running, balanced, outside mounted  
ATEX category 1 (zone 0) possible  
Single or cartridge – version  
Independent of rotation  
Shrunk seal rings  
FDA – conform



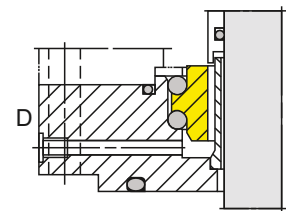
## Options



Shrinked version  
**7XB1**

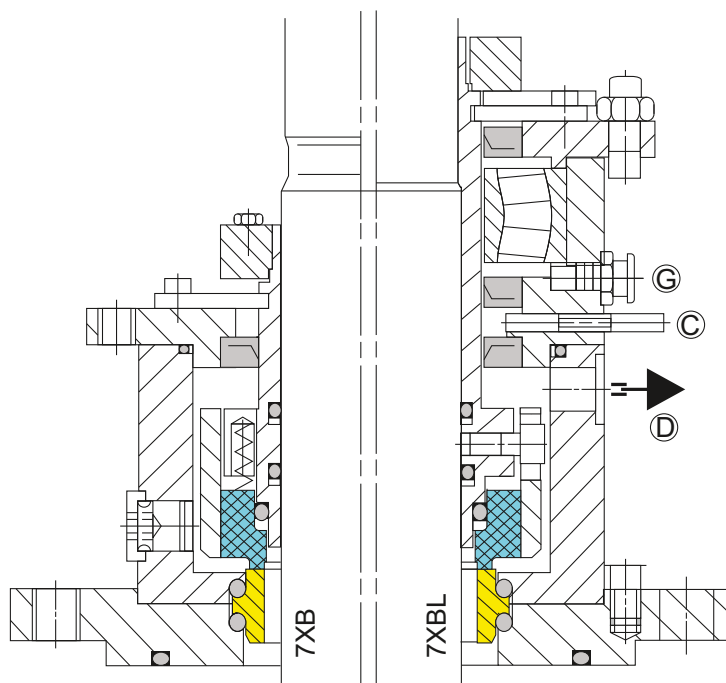


UFLCL version  
**7XB2**



Leakage trigger, alternatively  
applicable as flushing  
**7XB3**

## Cartridge RW7XB/L



### Materials:

Rotary: B, C

Stationary: Q1, V

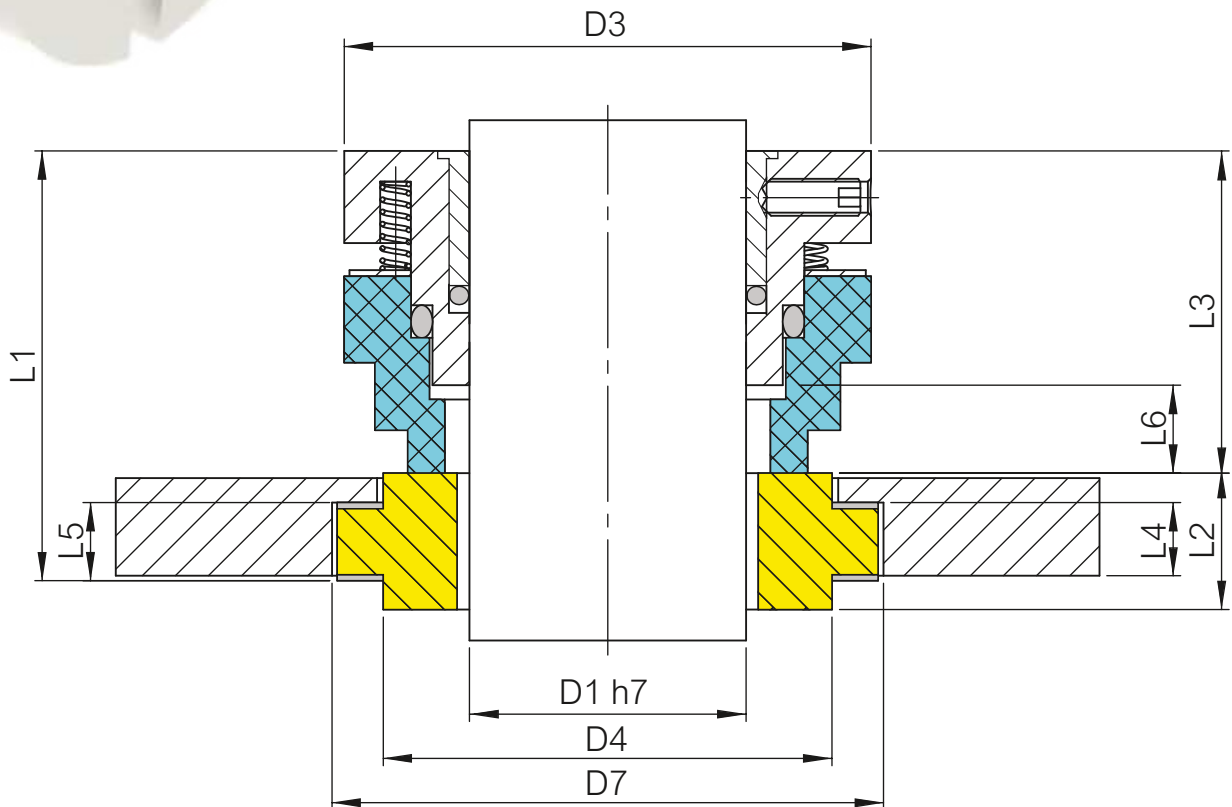
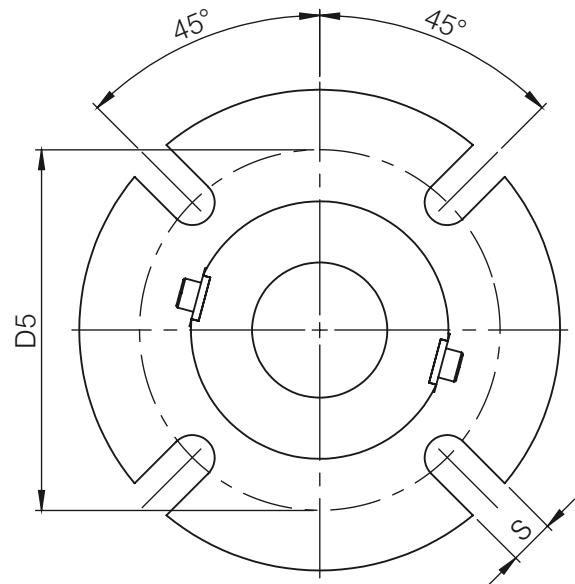
Rubber parts: P, E, V, K, M

### Operating limits:

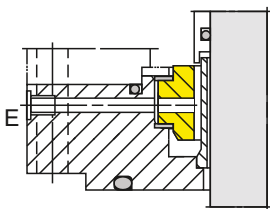
|     |                     |
|-----|---------------------|
| p ≤ | vacuum... 6 bar     |
| t = | -40 ÷ 150°C (250°C) |
| v ≤ | 0..2 m/s            |

| D1mm | D1 inch | D2  | D3  | D4  | D7  | L2   | L3   | D5 min | D5 max | S  |
|------|---------|-----|-----|-----|-----|------|------|--------|--------|----|
| 25   | 1.000   | 34  | 68  | -   | 148 | 41.5 | 40.5 | 100    | 132    | 11 |
| 28   | 1.125   | 34  | 68  | 55  | 148 | 41.5 | 40.5 | 100    | 132    | 11 |
| 30   | -       | 34  | 68  | 55  | 148 | 41.5 | 40.5 | 100    | 132    | 11 |
| 32   | 1.250   | 39  | 73  | 60  | 153 | 41.5 | 40.5 | 105    | 137    | 11 |
| 35   | 1.375   | 39  | 73  | 60  | 153 | 41.5 | 40.5 | 105    | 137    | 11 |
| 38   | 1.500   | 44  | 78  | 65  | 158 | 41.5 | 40.5 | 110    | 142    | 11 |
| 40   | -       | 44  | 78  | 65  | 158 | 41.5 | 40.5 | 110    | 142    | 11 |
| 45   | 1.625   | 49  | 83  | 68  | 163 | 41.5 | 40.5 | 115    | 152    | 11 |
| -    | 1.750   | 49  | 83  | 68  | 163 | 41.5 | 40.5 | 115    | 152    | 11 |
| 48   | 1.875   | 54  | 88  | 73  | 178 | 41.5 | 40.5 | 125    | 160    | 14 |
| 50   | -       | 54  | 88  | 73  | 178 | 41.5 | 40.5 | 125    | 160    | 14 |
| 55   | 2.000   | 59  | 93  | 78  | 183 | 41.5 | 40.5 | 130    | 165    | 14 |
| -    | 2.125   | 59  | 93  | 78  | 183 | 41.5 | 40.5 | 130    | 165    | 14 |
| 60   | 2.250   | 64  | 98  | 85  | 188 | 41.5 | 40.5 | 135    | 170    | 14 |
| 65   | 2.375   | 69  | 103 | 90  | 193 | 44.5 | 40.5 | 140    | 175    | 14 |
| -    | 2.500   | 69  | 103 | 90  | 193 | 44.5 | 40.5 | 140    | 175    | 14 |
| 70   | 2.625   | 74  | 108 | 95  | 198 | 44.5 | 43.5 | 145    | 180    | 14 |
| -    | 2.750   | 74  | 108 | 95  | 198 | 44.5 | 43.5 | 145    | 180    | 14 |
| 75   | 2.875   | 79  | 113 | 100 | 203 | 44.5 | 43.5 | 150    | 185    | 14 |
| 80   | 3.000   | 84  | 118 | 105 | 208 | 44.5 | 43.5 | 155    | 190    | 14 |
| 85   | 3.250   | 89  | 123 | 110 | 213 | 44.5 | 43.5 | 160    | 195    | 14 |
| 90   | 3.500   | 94  | 128 | 115 | 218 | 44.5 | 43.5 | 165    | 200    | 14 |
| 95   | 3.750   | 99  | 133 | 120 | 223 | 44.5 | 43.5 | 170    | 205    | 14 |
| 100  | -       | 104 | 138 | 125 | 228 | 44.5 | 43.5 | 175    | 210    | 14 |
| 105  | 4.000   | 109 | 143 | 130 | 233 | 44.5 | 43.5 | 180    | 215    | 14 |
| 110  | 4.250   | 114 | 148 | 135 | 238 | 44.5 | 43.5 | 185    | 220    | 14 |
| 115  | 4.500   | 119 | 153 | 140 | 267 | 44.5 | 43.5 | 196    | 243    | 18 |
| 125  | 4.750   | 129 | 163 | 150 | 277 | 44.5 | 43.5 | 206    | 253    | 18 |
| 140  | 5.000   | 144 | 178 | 165 | 297 | 44.5 | 43.5 | 221    | 273    | 18 |
| -    | 5.250   | 144 | 178 | 165 | 297 | 44.5 | 43.5 | 221    | 273    | 18 |
| -    | 5.500   | 144 | 178 | 165 | 297 | 44.5 | 43.5 | 221    | 273    | 18 |
| 150  | 5.750   | 154 | 188 | 175 | 307 | 44.5 | 43.5 | 231    | 283    | 18 |
| 160  | 6.000   | 164 | 198 | 185 | 317 | 44.5 | 43.5 | 241    | 293    | 18 |
| -    | 6.250   | 164 | 198 | 185 | 317 | 44.5 | 43.5 | 241    | 293    | 18 |

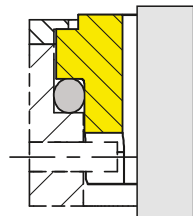
Dry running, balanced, outside mounted  
 ATEX category 1 (zone 0) possible  
 Single or cartridge – Version  
 Independent of rotation  
 Massive seal rings  
 FDA – conform



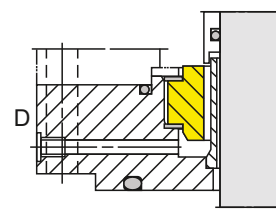
### Options



Shrinked version

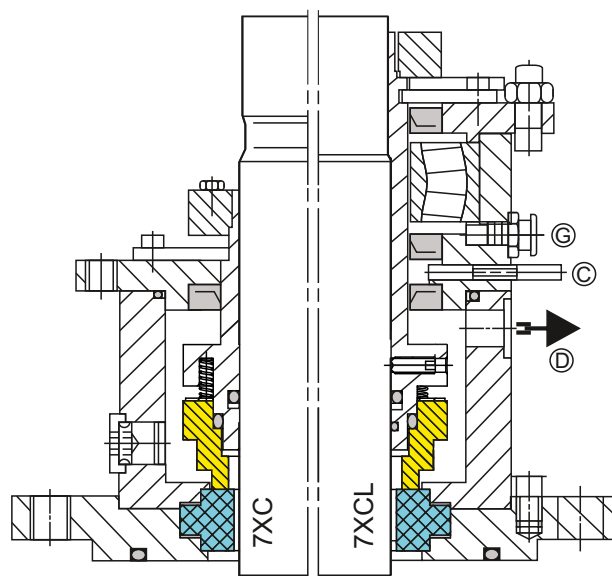


UFLCL version



Leakage trigger, alternatively applicable as flushing

## Cartridge RW7XC/L



### Materials:

Rotary: B, C

Stationary: Q1, V

Rubber parts: P, E, V, K, M

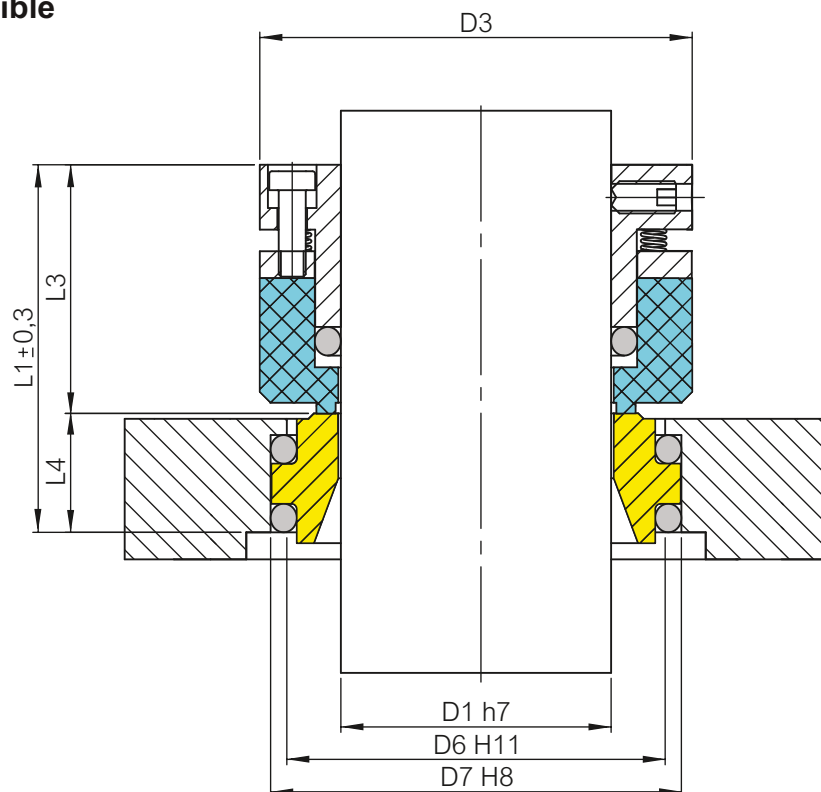
### Operating limits:

|     |                     |
|-----|---------------------|
| p ≤ | vacuum... 6 bar     |
| t = | -40 ÷ 150°C (250°C) |
| v ≤ | 0..2 m/s            |

| D1  | D3    | D4    | D7    | D5 min | D5 max | S  | L1   | L2   | L3   | L4   | L5   | L6   |
|-----|-------|-------|-------|--------|--------|----|------|------|------|------|------|------|
| 25  | 63.5  | 47.6  | 57.9  | 100    | 132    | 11 | 69.0 | 20.6 | 52.4 | 12.7 | 11.9 | 14.3 |
| 28  | 66.6  | 50.8  | 61.1  | 100    | 132    | 11 | 69.0 | 20.6 | 52.4 | 12.7 | 11.9 | 14.3 |
| 30  | 69.8  | 53.9  | 67.5  | 100    | 132    | 11 | 69.9 | 20.6 | 52.4 | 12.7 | 11.9 | 14.3 |
| 32  | 69.8  | 53.9  | 67.5  | 105    | 137    | 11 | 69.9 | 20.6 | 52.4 | 12.7 | 11.9 | 14.3 |
| 33  | 73.0  | 57.1  | 70.6  | 105    | 137    | 11 | 69.9 | 22.2 | 52.4 | 12.7 | 11.9 | 14.3 |
| 35  | 73.0  | 57.1  | 70.6  | 105    | 137    | 11 | 69.9 | 22.2 | 52.4 | 12.7 | 11.9 | 14.3 |
| 38  | 76.2  | 63.5  | 77.0  | 110    | 142    | 11 | 69.9 | 22.2 | 52.4 | 12.7 | 11.9 | 14.3 |
| 40  | 79.3  | 66.6  | 80.2  | 115    | 152    | 11 | 69.9 | 22.2 | 52.4 | 12.7 | 11.9 | 14.3 |
| 43  | 82.5  | 69.8  | 83.3  | 115    | 152    | 11 | 69.9 | 22.2 | 52.4 | 12.7 | 11.9 | 14.3 |
| 45  | 85.7  | 73    | 89.7  | 115    | 152    | 11 | 69.9 | 22.2 | 52.4 | 12.7 | 11.9 | 14.3 |
| 50  | 88.9  | 79.3  | 96.0  | 125    | 160    | 14 | 73.0 | 25.4 | 52.4 | 15.9 | 15.1 | 14.3 |
| 53  | 92.0  | 82.5  | 99.2  | 125    | 160    | 14 | 73.0 | 25.4 | 52.4 | 15.9 | 15.1 | 14.3 |
| 55  | 95.2  | 85.7  | 102.4 | 130    | 165    | 14 | 73.0 | 25.4 | 52.4 | 15.9 | 15.1 | 14.3 |
| 58  | 98.4  | 88.9  | 105.6 | 130    | 170    | 14 | 73.0 | 25.4 | 52.4 | 15.9 | 15.1 | 14.3 |
| 60  | 98.4  | 88.9  | 105.6 | 135    | 175    | 14 | 73.0 | 25.4 | 52.4 | 15.9 | 15.1 | 14.3 |
| 63  | 101.6 | 92.0  | 108.7 | 135    | 175    | 14 | 73.0 | 25.4 | 52.4 | 15.9 | 15.1 | 14.3 |
| 65  | 104.7 | 95.2  | 111.9 | 140    | 175    | 14 | 73.0 | 25.4 | 52.4 | 15.9 | 15.1 | 14.3 |
| 68  | 107.9 | 98.4  | 115.1 | 140    | 180    | 14 | 73.0 | 25.4 | 52.4 | 15.9 | 15.1 | 14.3 |
| 70  | 107.9 | 98.4  | 115.1 | 145    | 180    | 14 | 73.0 | 25.4 | 52.4 | 15.9 | 15.1 | 14.3 |
| 75  | 114.3 | 103.2 | 119.8 | 150    | 190    | 14 | 73.0 | 25.4 | 52.4 | 15.9 | 15.1 | 14.3 |
| 80  | 120.6 | 111.1 | 127.8 | 155    | 195    | 14 | 73.0 | 25.4 | 52.4 | 15.9 | 15.1 | 14.3 |
| 85  | 123.8 | 114.3 | 131.0 | 160    | 200    | 14 | 73.0 | 25.4 | 52.4 | 15.9 | 15.1 | 14.3 |
| 90  | 130.2 | 120.6 | 137.3 | 165    | 205    | 14 | 73.0 | 25.4 | 52.4 | 15.9 | 15.1 | 14.3 |
| 95  | 133.3 | 123.8 | 140.5 | 170    | 210    | 14 | 73.0 | 25.4 | 52.4 | 15.9 | 15.1 | 14.3 |
| 100 | 139.7 | 133.3 | 150.0 | 175    | 215    | 14 | 73.0 | 25.4 | 52.4 | 15.9 | 15.1 | 14.3 |
| 105 | 142.9 | 136.5 | 153.2 | 180    | 220    | 14 | 73.0 | 25.4 | 52.4 | 15.9 | 15.1 | 14.3 |
| 110 | 149.2 | 142.8 | 159.5 | 185    | 243    | 18 | 73.0 | 25.4 | 52.4 | 15.9 | 15.1 | 14.3 |
| 115 | 155.5 | 149.2 | 165.9 | 196    | 253    | 18 | 73.0 | 25.4 | 52.4 | 15.9 | 15.1 | 14.3 |
| 120 | 158.7 | 152.4 | 169.1 | 196    | 253    | 18 | 73.0 | 25.4 | 52.4 | 15.9 | 15.1 | 14.3 |
| 125 | 165.1 | 158.7 | 175.4 | 206    | 273    | 18 | 73.0 | 25.4 | 52.4 | 15.9 | 15.1 | 14.3 |
| 130 | 168.2 | 168.2 | 184.9 | 206    | 273    | 18 | 73.0 | 25.4 | 52.4 | 15.9 | 15.1 | 14.3 |
| 135 | 174.6 | 174.6 | 191.3 | 206    | 273    | 18 | 73.0 | 25.4 | 52.4 | 15.9 | 15.1 | 14.3 |
| 140 | 180.9 | 180.9 | 197.6 | 221    | 273    | 18 | 73.0 | 25.4 | 52.4 | 15.9 | 15.1 | 14.3 |
| 145 | 184.1 | 184.1 | 200.8 | 221    | 273    | 18 | 73.0 | 25.4 | 52.4 | 15.9 | 15.1 | 14.3 |
| 150 | 190.5 | 190.5 | 207.2 | 231    | 283    | 18 | 73.0 | 25.4 | 52.4 | 15.9 | 15.1 | 14.3 |
| 155 | 193.6 | 193.6 | 210.3 | 241    | 293    | 18 | 73.0 | 25.4 | 52.4 | 15.9 | 15.1 | 14.3 |
| 160 | 200.0 | 200.0 | 216.7 | 241    | 293    | 18 | 73.0 | 25.4 | 52.4 | 15.9 | 15.1 | 14.3 |
| 165 | 203.2 | 203.2 | 219.9 | 241    | 293    | 18 | 73.0 | 25.4 | 52.4 | 15.9 | 15.1 | 14.3 |
| 170 | 209.5 | 209.5 | 226.2 | 241    | 293    | 18 | 73.0 | 25.4 | 52.4 | 15.9 | 15.1 | 14.3 |
| 175 | 215.9 | 215.9 | 232.6 | 241    | 293    | 18 | 73.0 | 25.4 | 52.4 | 15.9 | 15.1 | 14.3 |

Mixer, agitator  
Mechanical seal

Dry running, balanced, outside mounted  
Independent of rotation  
Massive seal rings  
FDA – conform  
ATEX category 1 (zone 0) possible



#### Materials:

Rotary: T1, T2

Stationary: Q1, V

Rubber parts: P, E, V, K, M

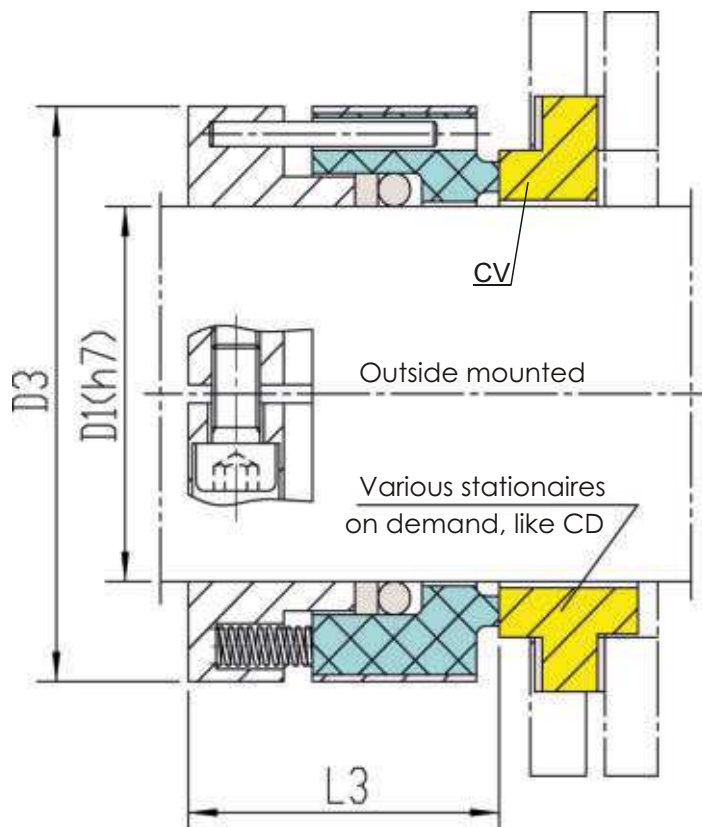
#### Operating limits:

|          |                                |
|----------|--------------------------------|
| $p \leq$ | vacuum... 6 bar                |
| $t =$    | $-40 \div 175^{\circ}\text{C}$ |
| $v \leq$ | 1 m/s                          |

| D1  | D6  | D7  | D3  | L1  | L3 | L4 |
|-----|-----|-----|-----|-----|----|----|
| 20  | 36  | 42  | 46  | 63  | 43 | 20 |
| 25  | 41  | 47  | 51  | 63  | 43 | 20 |
| 30  | 46  | 52  | 56  | 63  | 43 | 20 |
| 35  | 51  | 57  | 61  | 63  | 43 | 20 |
| 40  | 60  | 66  | 70  | 68  | 46 | 22 |
| 45  | 65  | 71  | 75  | 68  | 46 | 22 |
| 50  | 70  | 76  | 80  | 68  | 46 | 22 |
| 55  | 75  | 81  | 85  | 68  | 46 | 22 |
| 60  | 85  | 91  | 92  | 74  | 50 | 24 |
| 65  | 90  | 96  | 97  | 74  | 50 | 24 |
| 70  | 95  | 101 | 102 | 76  | 50 | 26 |
| 75  | 104 | 110 | 109 | 76  | 50 | 26 |
| 80  | 109 | 115 | 114 | 83  | 56 | 27 |
| 85  | 114 | 120 | 120 | 83  | 56 | 27 |
| 90  | 119 | 125 | 124 | 83  | 56 | 27 |
| 95  | 124 | 130 | 130 | 83  | 56 | 27 |
| 100 | 129 | 135 | 134 | 83  | 56 | 27 |
| 105 | 134 | 140 | 140 | 83  | 56 | 27 |
| 110 | 139 | 145 | 146 | 83  | 56 | 27 |
| 120 | 150 | 160 | 160 | 95  | 62 | 33 |
| 130 | 160 | 170 | 170 | 95  | 62 | 33 |
| 140 | 175 | 185 | 180 | 95  | 62 | 33 |
| 150 | 190 | 200 | 200 | 120 | 84 | 36 |
| 160 | 200 | 210 | 210 | 120 | 84 | 36 |
| 170 | 210 | 220 | 220 | 120 | 84 | 36 |
| 180 | 220 | 230 | 230 | 120 | 84 | 36 |



Dry running, outside mounted version  
Double pressure balanced  
Clamping sleeve, shaft protecting



#### Materials:

Rotary: A, B, C

Stationary: Q1, V

Rubber parts: P, E, V, K, M

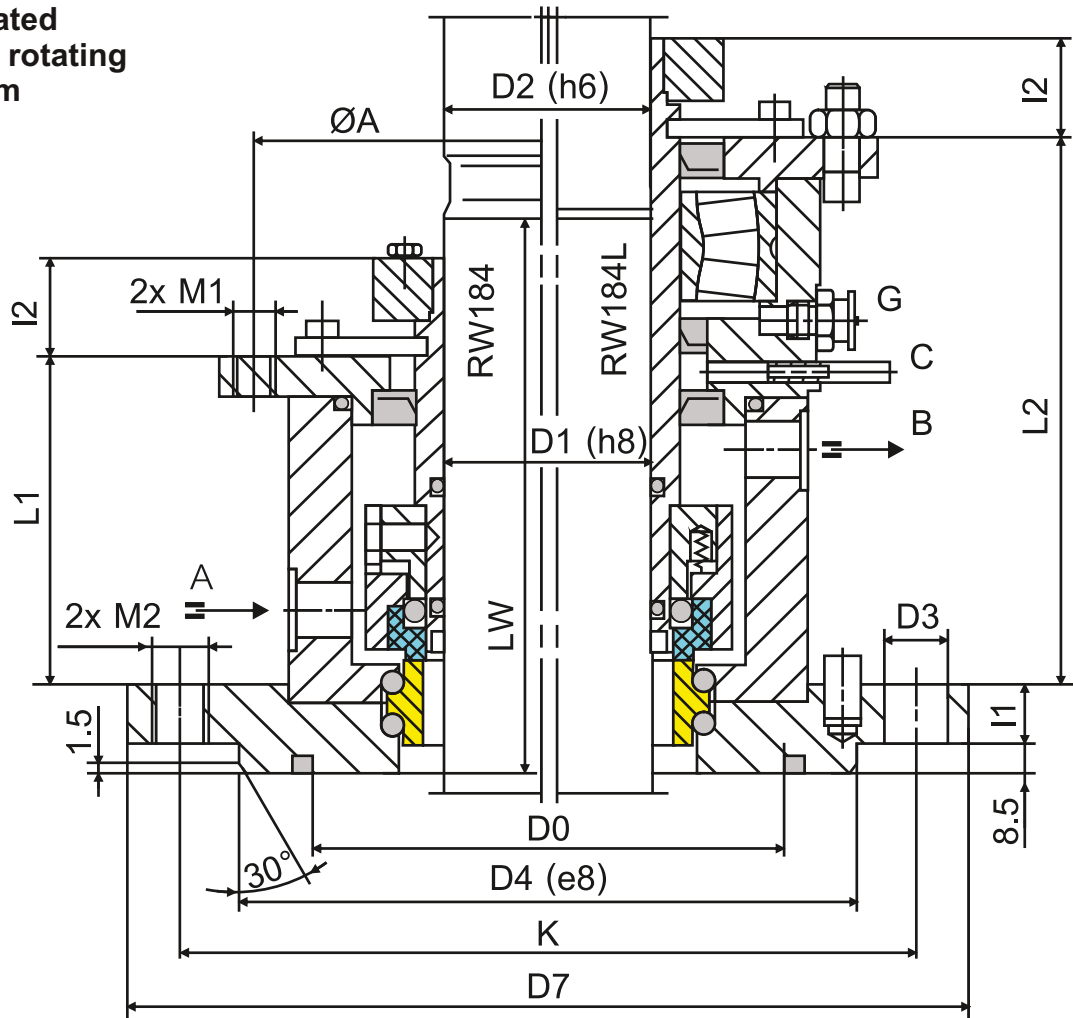
#### Operating limits:

|     |                 |
|-----|-----------------|
| p ≤ | vacuum... 6 bar |
| t = | -40 ÷ 180°C     |
| v ≤ | 15m/s           |

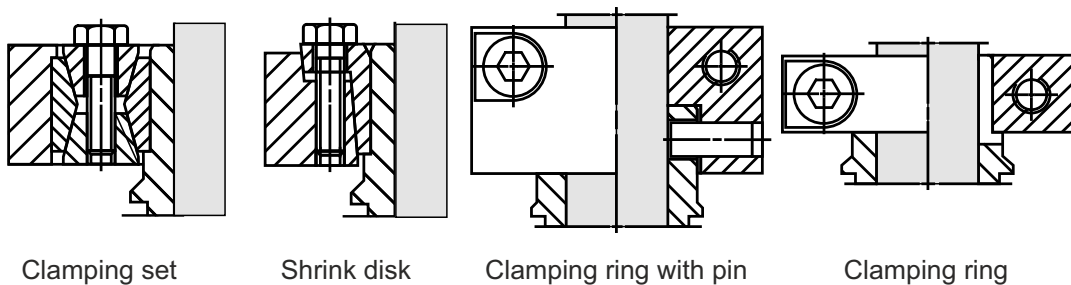
#### Special fitting dimensions

| D1  | D3  | L3 |
|-----|-----|----|
| 24  | 49  | 38 |
| 25  | 51  | 38 |
| 28  | 54  | 38 |
| 30  | 57  | 38 |
| 33  | 59  | 38 |
| 35  | 60  | 38 |
| 38  | 63  | 38 |
| 40  | 67  | 38 |
| 43  | 68  | 38 |
| 45  | 70  | 38 |
| 48  | 74  | 38 |
| 50  | 76  | 38 |
| 55  | 79  | 38 |
| 60  | 86  | 38 |
| 65  | 92  | 38 |
| 70  | 98  | 41 |
| 75  | 104 | 41 |
| 80  | 108 | 41 |
| 85  | 114 | 41 |
| 90  | 118 | 41 |
| 95  | 123 | 41 |
| 100 | 129 | 41 |
| 125 | 171 | 62 |
| 140 | 186 | 62 |
| 160 | 206 | 62 |
| 180 | 226 | 62 |

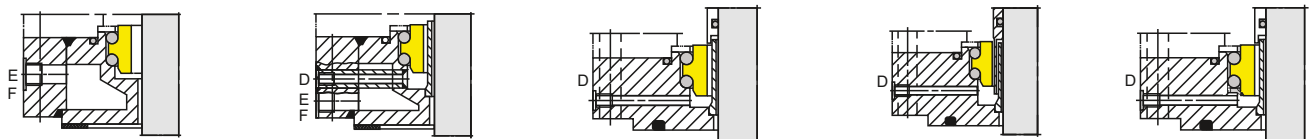
Single or double seal  
Independent on rotation  
Cartridge – version  
Unbalanced  
Liquid lubricated  
Multi springs rotating  
FDA - conform



## Torque Transmissions



## Options



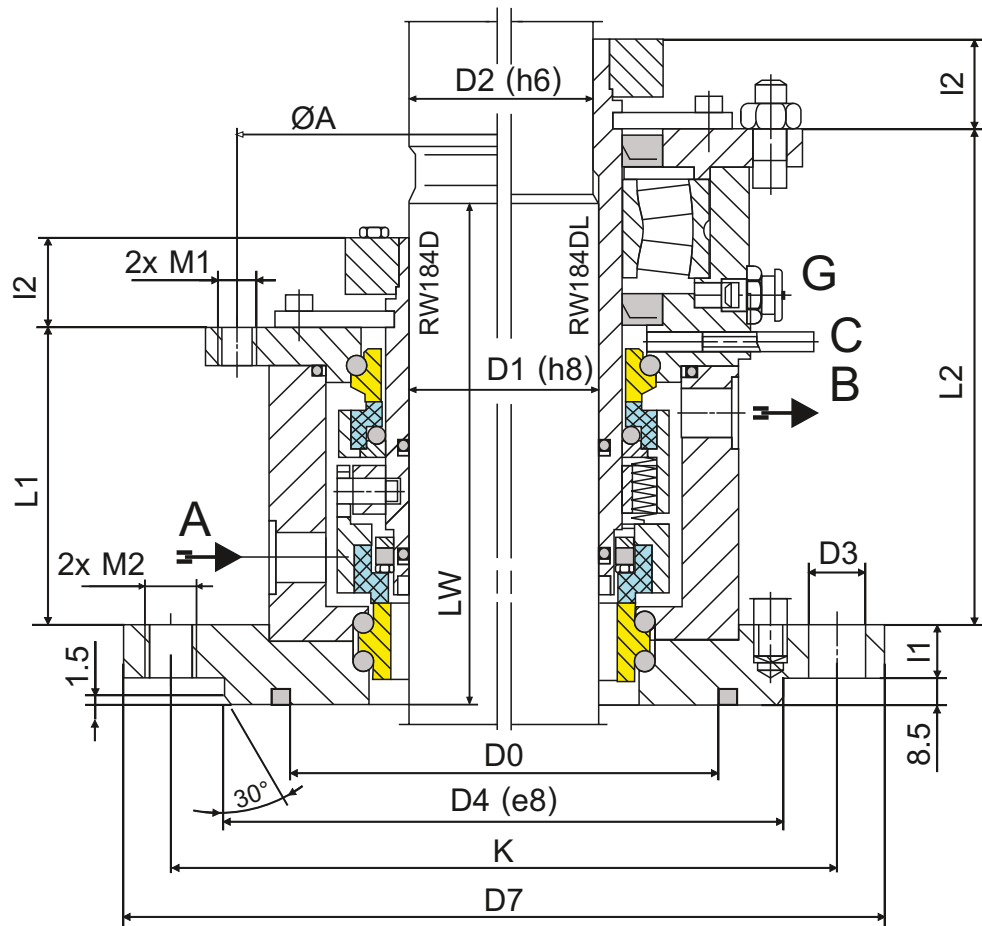
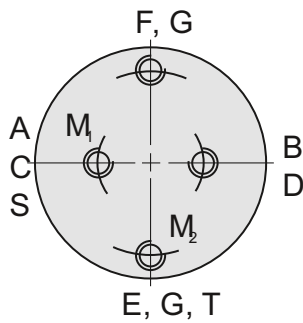
Cooling flange, can be used alternatively as a heating flange (tmax. = 350 °C (662 °F)).

Leakage drain, can be used alternatively as a flush or as a heating flange.

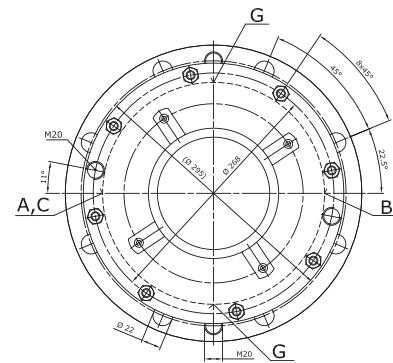
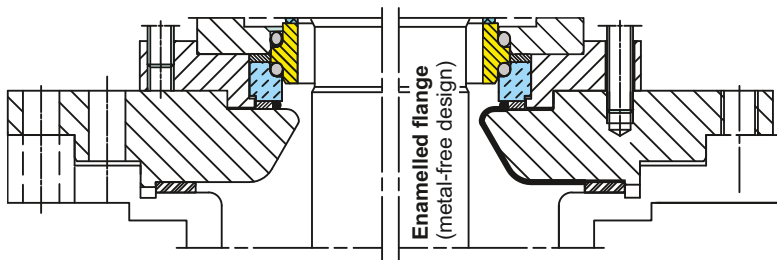
Leakage drain, can be used alternatively as a flush.

Polymerization barrier, can be used alternatively as a leakage drain or a flush.

Scraper, media with particles, Pharma use.



## Flange for chemistry and food sector



### Materials:

Rotary: B, Q, U  
Stationary: Q, U  
Rubber parts: P, E, V, K, M

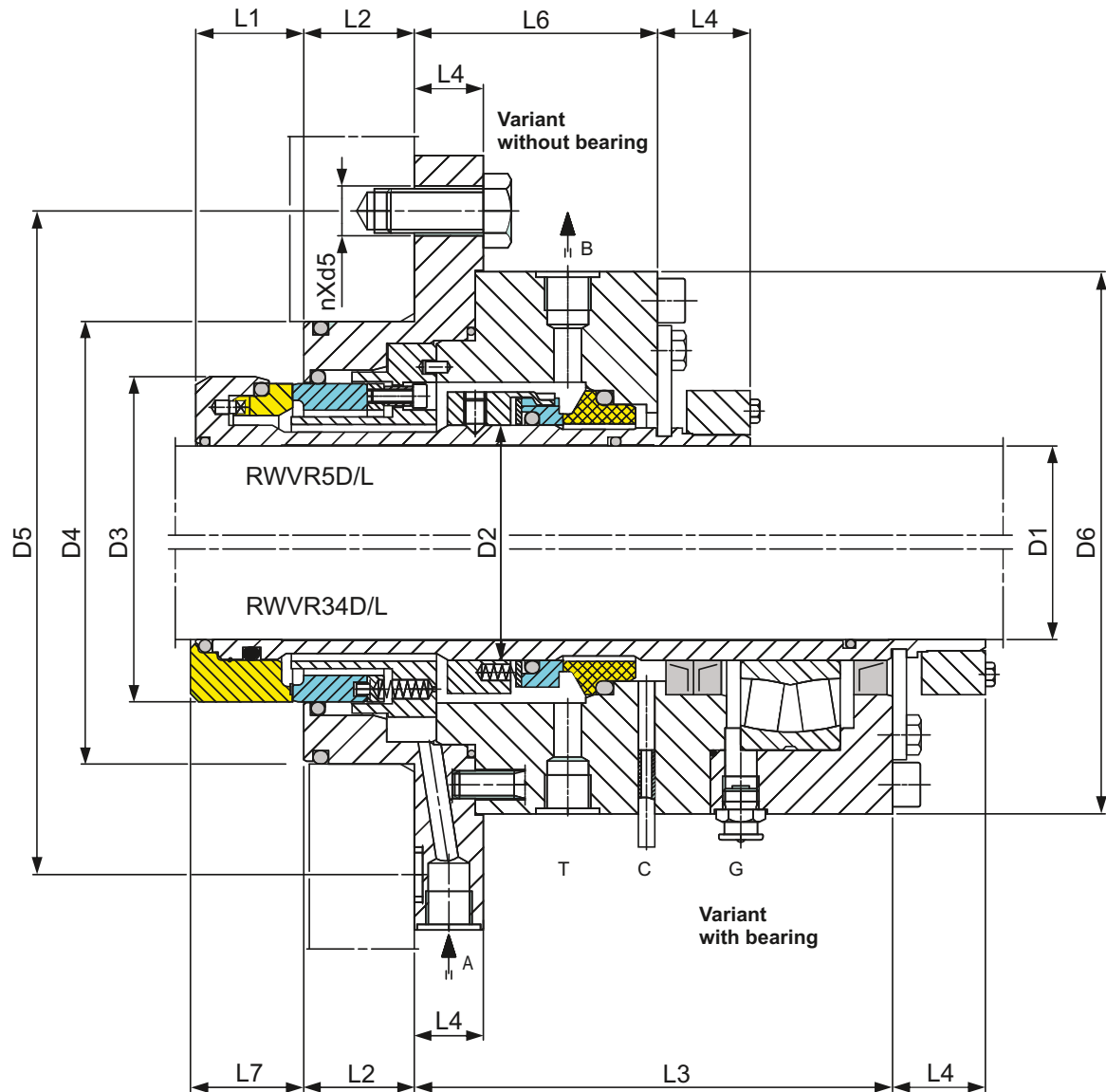
### Operating limits:

|          |                     |
|----------|---------------------|
| $p \leq$ | vacum... 6 bar      |
| $t =$    | -40 ÷ 150°C (250°C) |
| $v \leq$ | 5 m/s               |

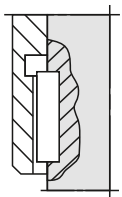
A - Barrier fluid resp. quench IN  
B - Barrier fluid resp. quench OUT  
C - Drainage  
D - Leakage drain G1/8"  
E - Cooling IN G3/8"  
F - Cooling OUT G3/8"  
G - Grease  
S - Flush  
T - Temperature metering

| D1  | D2  | D7  | NXD3  | D4  | D0  | K   | L1    | L2    | LW  | I1 | I2 | A   | M1  | M2  | A.B  |
|-----|-----|-----|-------|-----|-----|-----|-------|-------|-----|----|----|-----|-----|-----|------|
| 40  | 38  | 175 | 4X18  | 110 | 90  | 145 | 87    | 136   | 143 | 15 | 28 | 122 | M12 | M16 | G3/8 |
| 50  | 48  | 240 | 8X18  | 176 | 135 | 210 | 89    | 149   | 148 | 17 | 28 | 157 | M12 | M16 | G3/8 |
| 60  | 58  | 240 | 8X18  | 176 | 135 | 210 | 93.5  | 156   | 158 | 17 | 28 | 168 | M12 | M16 | G3/8 |
| 80  | 78  | 275 | 8X22  | 204 | 155 | 240 | 104.5 | 189   | 168 | 20 | 34 | 203 | M16 | M20 | G1/2 |
| 100 | 98  | 305 | 8X22  | 234 | 190 | 270 | 109   | 190   | 178 | 20 | 34 | 228 | M16 | M20 | G1/2 |
| 125 | 120 | 330 | 8X22  | 260 | 215 | 295 | 110   | 205   | 203 | 20 | 40 | 268 | M20 | M20 | G1/2 |
| 140 | 135 | 395 | 12X22 | 313 | 250 | 350 | 124   | 222   | 208 | 20 | 40 | 285 | M20 | M20 | G1/2 |
| 160 | 150 | 395 | 12X22 | 313 | 265 | 350 | 127.5 | 219.5 | 213 | 25 | 40 | 297 | M20 | M20 | G1/2 |
| 180 | 170 | 445 | 12X22 | 364 | 310 | 400 | 132.5 | 230   | 233 | 25 | 45 | 332 | M24 | M20 | G1/2 |
| 200 | 190 | 445 | 12X22 | 364 | 310 | 400 | 137.5 | 237.5 | 243 | 25 | 45 | 352 | M24 | M20 | G1/2 |
| 220 | 210 | 505 | 16X22 | 422 | 340 | 460 | 149.5 | 249.5 | 263 | 25 | 50 | 381 | M24 | M20 | G1/2 |

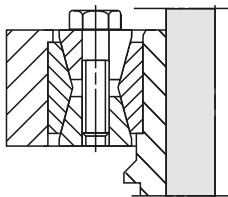
Single or double seal  
Independent on rotation  
Cartridge – version  
Unbalanced  
Liquid lubricated  
Multi springs rotating  
FDA - conform



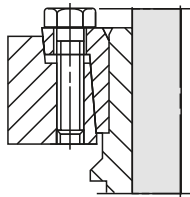
## Torque Transmissions



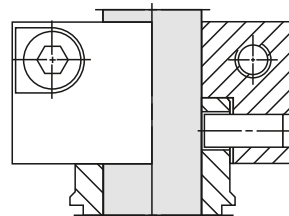
Drive key



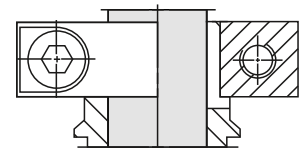
Clamping set



Shrink disc



Clamping ring  
with pin

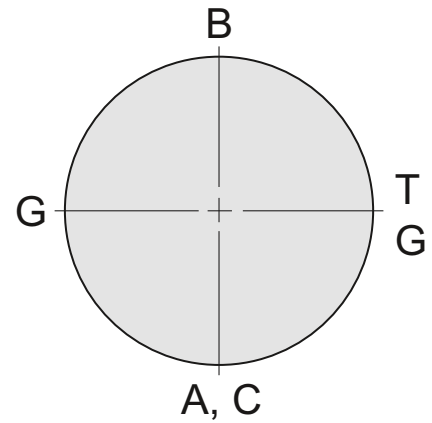


Clamping ring





RWVR34D/L



A - Barrier fluid IN  
B - Barrier fluid OUT  
C - Drainage  
G - Grease  
T - Temperature measuring

## Materials:

Rotary: B, Q, U

Stationary: Q, U

Rubber parts: P, E, V, K, M

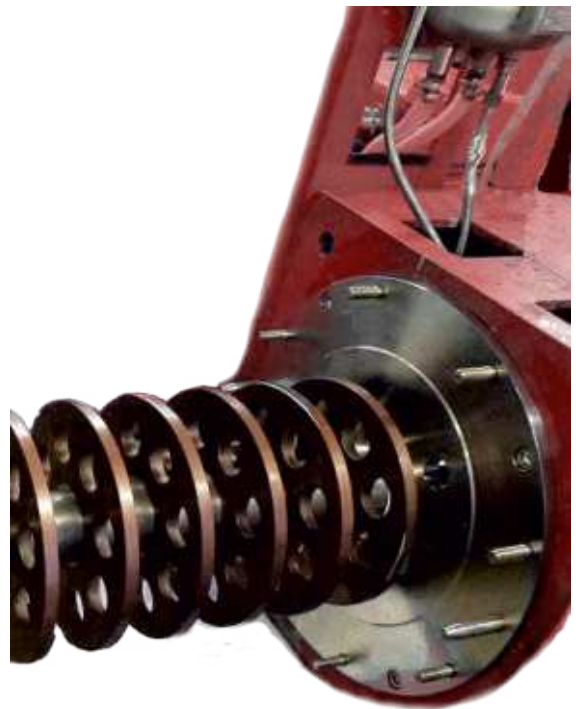
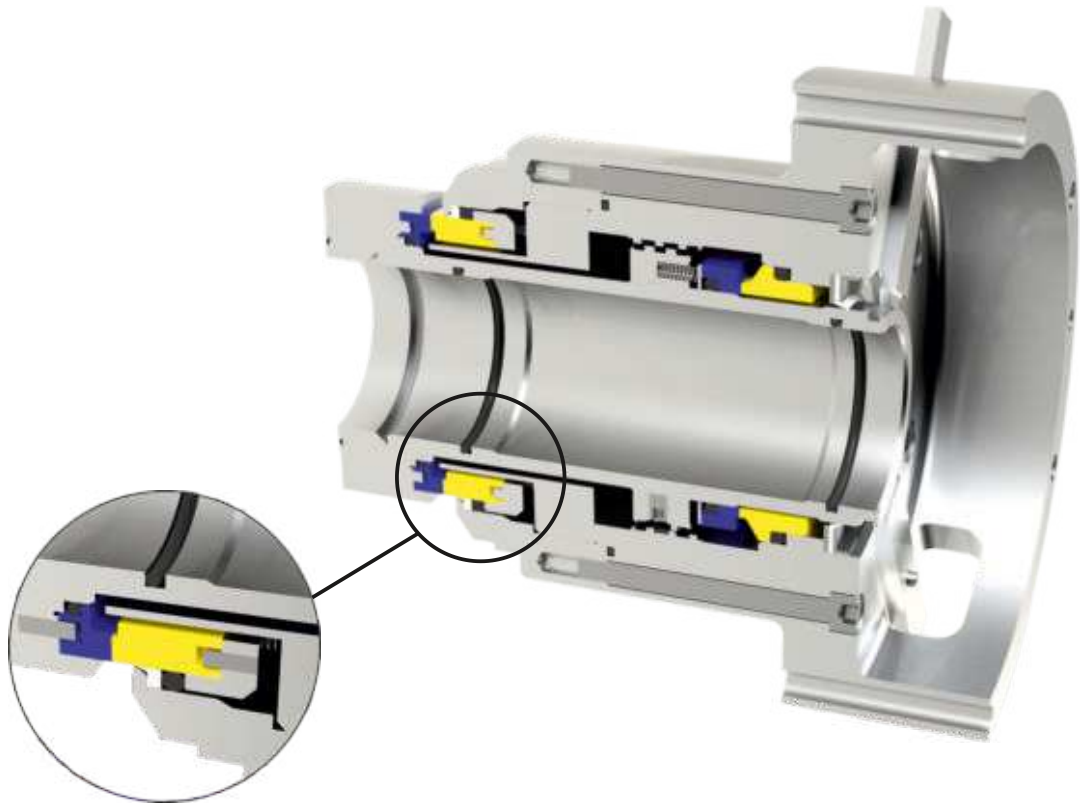
## Operating limits:

|     |                     |
|-----|---------------------|
| p ≤ | vacuum... 6 bar     |
| t = | -40 ÷ 150°C (250°C) |
| v ≤ | 5 m/s               |

| D1  | D2  | D3   | D4  | D5  | D6  | L1 | L2 | L3  | L4 | L6  | L7 | A.B  | nxd5  |
|-----|-----|------|-----|-----|-----|----|----|-----|----|-----|----|------|-------|
| 20  | 30  | 52   | 117 | 140 | 118 | 35 | 30 | 114 | 30 | 75  | 41 | G3/8 | 6X11  |
| 25  | 35  | 58   | 124 | 150 | 128 | 35 | 30 | 127 | 30 | 85  | 41 | G3/8 | 6X11  |
| 30  | 40  | 62   | 134 | 165 | 138 | 35 | 30 | 129 | 30 | 89  | 41 | G3/8 | 6X11  |
| 35  | 45  | 68   | 140 | 175 | 148 | 35 | 30 | 130 | 30 | 89  | 41 | G3/8 | 6X11  |
| 40  | 50  | 75   | 145 | 175 | 148 | 35 | 30 | 133 | 34 | 90  | 41 | G3/8 | 8X11  |
| 45  | 55  | 82.7 | 150 | 175 | 148 | 35 | 30 | 135 | 34 | 90  | 41 | G3/8 | 8X11  |
| 50  | 60  | 85   | 160 | 185 | 158 | 41 | 30 | 150 | 34 | 105 | 41 | G3/8 | 8X11  |
| 50  | 65  | 90   | 170 | 195 | 168 | 41 | 30 | 160 | 34 | 105 | 41 | G3/8 | 8X11  |
| 55  | 70  | 95   | 175 | 205 | 178 | 41 | 30 | 160 | 34 | 105 | 41 | G3/8 | 8X11  |
| 60  | 75  | 100  | 180 | 205 | 178 | 41 | 30 | 160 | 34 | 105 | 41 | G3/8 | 8X11  |
| 65  | 80  | 110  | 190 | 220 | 188 | 41 | 40 | 190 | 44 | 105 | 41 | G3/8 | 8X11  |
| 70  | 85  | 115  | 195 | 230 | 198 | 41 | 40 | 190 | 44 | 105 | 41 | G3/8 | 8X11  |
| 75  | 90  | 120  | 200 | 230 | 198 | 41 | 40 | 190 | 44 | 105 | 41 | G3/8 | 8X11  |
| 80  | 95  | 127  | 205 | 235 | 203 | 41 | 40 | 190 | 44 | 105 | 41 | G3/8 | 8X11  |
| 80  | 100 | 130  | 210 | 240 | 208 | 41 | 40 | 190 | 44 | 105 | 45 | G3/8 | 8X11  |
| 85  | 105 | 135  | 215 | 250 | 218 | 41 | 40 | 190 | 44 | 105 | 45 | G1/2 | 8X11  |
| 90  | 110 | 140  | 230 | 260 | 228 | 41 | 40 | 190 | 44 | 110 | 45 | G1/2 | 8X11  |
| 95  | 115 | 145  | 235 | 270 | 238 | 41 | 40 | 190 | 44 | 110 | 45 | G1/2 | 8X11  |
| 100 | 120 | 150  | 240 | 270 | 238 | 42 | 40 | 200 | 44 | 120 | 46 | G1/2 | 8X11  |
| 110 | 130 | 160  | 255 | 290 | 258 | 42 | 40 | 200 | 50 | 120 | 46 | G1/2 | 8X11  |
| 120 | 140 | 172  | 265 | 305 | 268 | 43 | 50 | 220 | 50 | 130 | 46 | G1/2 | 8X11  |
| 130 | 150 | 185  | 275 | 315 | 278 | 43 | 50 | 220 | 50 | 130 | 46 | G1/2 | 8X11  |
| 140 | 160 | 195  | 290 | 335 | 298 | 43 | 50 | 220 | 50 | 130 | 46 | G1/2 | 8X11  |
| 150 | 170 | 205  | 300 | 335 | 298 | 47 | 50 | 220 | 50 | 130 | 46 | G1/2 | 8X11  |
| 160 | 180 | 220  | 330 | 355 | 323 | 47 | 50 | 250 | 50 | 140 | 46 | G1/2 | 8X11  |
| 170 | 190 | 230  | 345 | 375 | 358 | 47 | 50 | 250 | 55 | 140 | 46 | G1/2 | 8X11  |
| 180 | 200 | 240  | 365 | 395 | 358 | 47 | 50 | 250 | 55 | 140 | 51 | G1/2 | 8X11  |
| 190 | 210 | 260  | 385 | 415 | 378 | 50 | 50 | 250 | 55 | 140 | 51 | G1/2 | 12X18 |
| 190 | 220 | 270  | 395 | 425 | 388 | 50 | 50 | 250 | 55 | 140 | 51 | G1/2 | 12X18 |
| 200 | 230 | 280  | 395 | 425 | 388 | 50 | 50 | 300 | 55 | 160 | 51 | G1/2 | 12X18 |

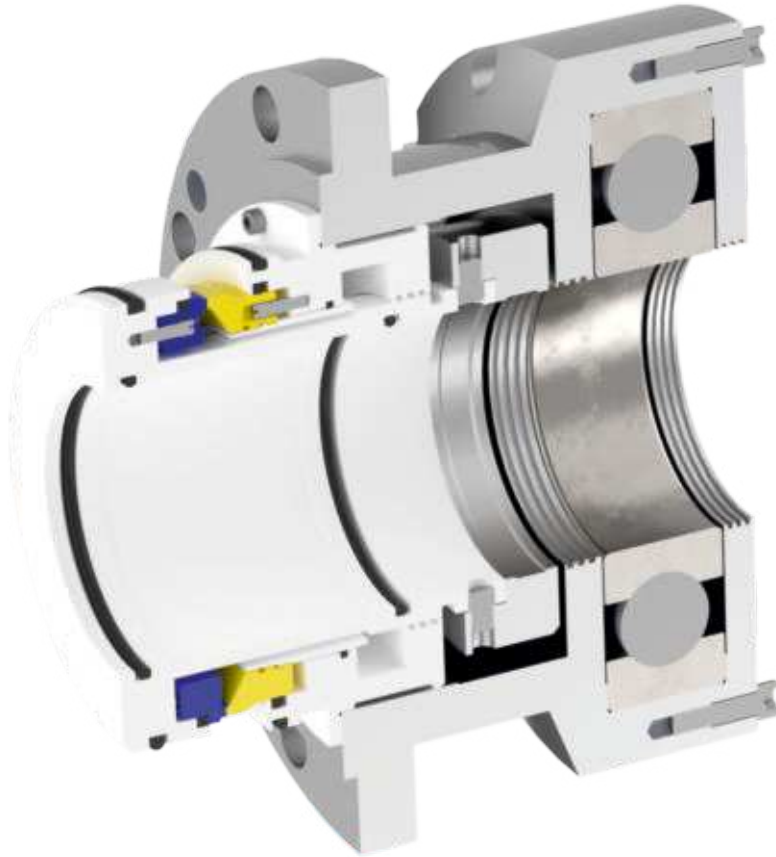
## Special versions

Application in a bead mill / ball mill  
e.g. chocolate production  
e.g. production of paints ( crushing of colour pigments)



## Special versions

Application in a tank agitator - medium milk of lime flue gas desulphurisation plant in a coal-fired power station

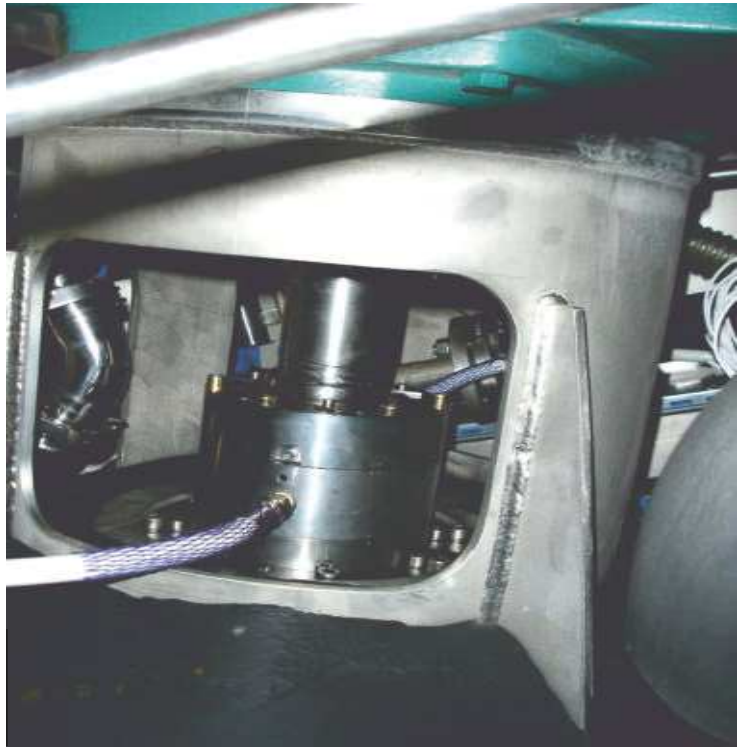


Mixer, agitator  
Mechanical seal

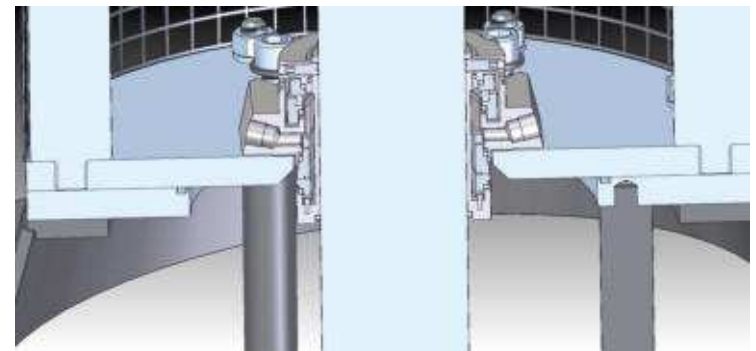
Product information on request



## Reference Agitators



Housing mechanical seal for food,  
chemical and pharmaceutical processes  
(Granulierer-Mixer- Dryer from Bio-Inox Pharma®)

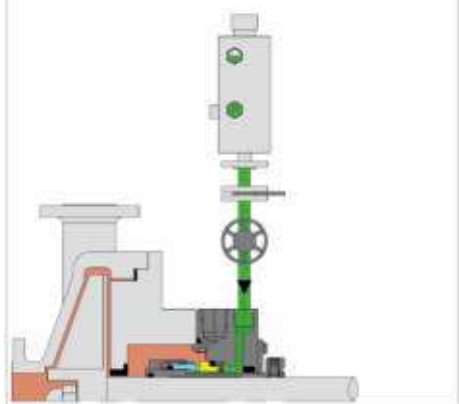


Double - Cartridge type 922CX according to API Plan  
for drug production



## API Circulation plans (selection)

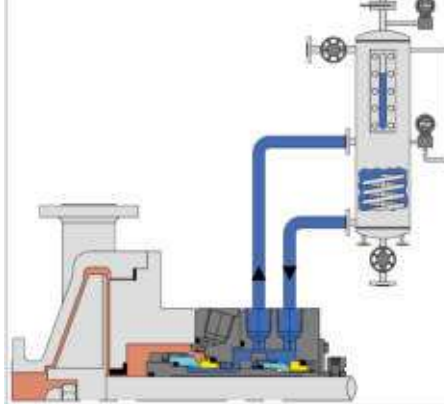
Plan 51



Avoidance of crystallisation of the leakage  
Avoidance of icing up

Pressureless liquid reservoir  
Submission fluid „Quench“  
No circulation „Dead End“

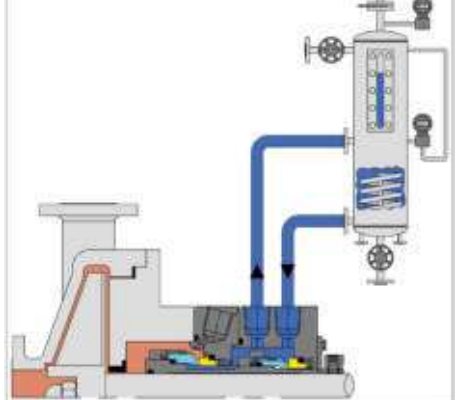
Plan 52



Avoidance of crystallisation of the leakage  
Avoidance of icing up  
Improving heat dissipation on the product side

Pressureless submission fluid „forced circulation“

Plan 53A



Complete prevention of product leakage  
to the atmosphere

Pressurized liquid reservoir (barrier)  
„forced circulation“



Mixer, agitator  
Mechanical seal



## Attachment to the repair order

# REPAIR REPORT

### Key data on the application

Description of the condition of the used seal and its components as delivered, after disassembly and cleaning if necessary.

Additional assessment of the state of wear / ageing and the functionality of the components, taking into account the machine and environment.

If applicable, identification of possible cause of damage and suggestions for improvement

| Informations of the mechanical seal |  | Identification image |
|-------------------------------------|--|----------------------|
| Name                                |  |                      |
| Drawing-nr.                         |  |                      |
| Fabrication-nr.                     |  |                      |
| Material code                       |  |                      |
| Application                         |  |                      |
| Maschine type                       |  |                      |
| Installation location               |  |                      |
| Pump type & size                    |  |                      |
| First installation date             |  |                      |
| Commissioning                       |  |                      |
| Operating time                      |  |                      |

| Know operating conditions as specified by the customer |  |                   | Identification image |
|--------------------------------------------------------|--|-------------------|----------------------|
| Speed                                                  |  | min <sup>-1</sup> |                      |
|                                                        |  |                   |                      |
| Product media                                          |  |                   |                      |
| Media designation                                      |  |                   |                      |
| Viscosity during use                                   |  | cSt               |                      |
| Density                                                |  | kg/m <sup>3</sup> |                      |
| Temperature                                            |  | °C                |                      |
| Static pressure                                        |  | bar               |                      |
| Dynamic pressure                                       |  | bar               |                      |
|                                                        |  |                   |                      |
| Quench liquid- / barrier liquid (if present)           |  |                   |                      |
| Media designation                                      |  |                   |                      |
| Viscosity during use                                   |  | cSt               |                      |
| Density                                                |  | kg/m <sup>3</sup> |                      |
| Temperature – IN                                       |  | °C                |                      |
| Temperature – OUT                                      |  | °C                |                      |
| Pressure                                               |  | bar               |                      |
| Flushing (if present)                                  |  |                   |                      |
| API plan                                               |  |                   |                      |

| Scope and purpose of the investigation  |                                       |                                                      |                                        |
|-----------------------------------------|---------------------------------------|------------------------------------------------------|----------------------------------------|
| Client                                  |                                       |                                                      |                                        |
| Expansion reason                        |                                       |                                                      |                                        |
| Received from                           |                                       |                                                      |                                        |
| Date of receipt                         |                                       |                                                      |                                        |
| Input status                            |                                       |                                                      |                                        |
| Purpose of the Investigation            | <input type="checkbox"/> Repair offer | <input type="checkbox"/> Expert opinions for clients | <input type="checkbox"/> Complaint     |
| Further procedure of the Examined parts | <input type="checkbox"/> Return       | <input type="checkbox"/> Repair order                | <input type="checkbox"/> Waste diposal |

An additional service of MechanicalSealsGermany is our own repair department. We can analyse, examine, clean, recondition, repair, supplement and test all types of models from a wide range of manufacturers and all diverse materials in their various applications. On request, of course, on a cost estimate and with a test certificate!



## Let's give a new life to your seal !

### Damage analysis & assessment

#### Condition of the running surfaces

- Uniformity of the contact
- Running lines
- Cracking
- Chipping
- Chipping on the edges
- Chemical attack of the material

#### Condition of the side seals

- Elasticity
- Overheating signs
- Cracks or fractures
- Chemical attack of the material

#### Torque driving condition

- Mechanical wear
- Movement
- Cracks or fractures

#### General condition

- Abrasion marks on sealing surfaces for secondary seals
- Chemical attack of the materials
- Product deposits / adhesions

### Wear protection

- Diamond coating
- Chrome oxide coating







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