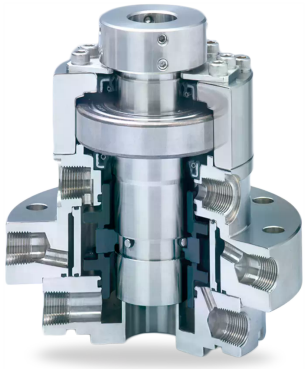
EagleBurgmann
a member of EKK and FREUDENBERG

RELY ON EXCELLENCE

MU-eight

Mechanical Seals | Agitator seals



Features

- Cartridge unit
- Double seal with integrated bearing
- Stationary springs, balanced

Advantages

- Compact agitator seal
  - Compact cartridge design permits the use of smaller agitators than with the previous equipment (Figure 1)
  - Smaller shaft diameter offers design flexibility to OEMs
- Suppressing effect on shaft runout
  - Shorter distance between sliding face and bearing reduces shaft runout and stabilizes seal performance (Figure 1)
  - Increased distance between bearings enhances the shaft runout suppression (Figure 2)
- Enhanced sealing performance
  - Damage risk to seal faces is reduced as balanced structure minimizes load on the faces
  - Secured sealing properties with stationary type of mechanical seal
  - Floating sliding materials avoid the effects of flange heat deformation
- Operating cost benefits
  - Common seal units mean fewer spare parts need to be kept in stock
  - Flexible retrofitting: can replace existing seal unit or gland packing

Operating range

Pressure: p = vacuum ... 10 bar (145 PSI)

Temperature: t = Maximum 200 °C (392 °F)

Sliding velocity: vg = 1 m/s (3 ft/s)

* For further details, please contact EagleBurgmann Japan

Materials

Seal face: Carbon (atmosphere side, product side)

Seat: Silicon carbide (SiC)

O-Ring: Kalrez®

Metal parts in contact with vessel media: Stainless steel (Type 316L)

Recommended applications

- Chemical industry
- Food and beverage industry
- Reactors
- Mixers

eagleburgmann.com
info@eagleburgmann.com

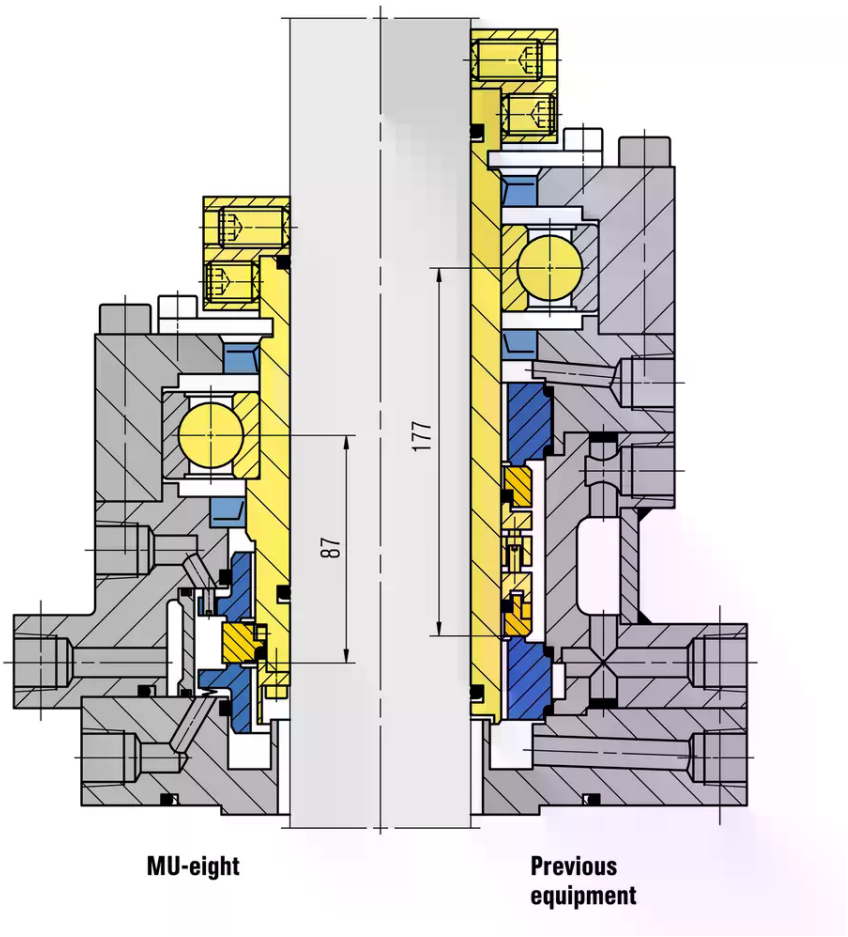


Figure 1
MU-eight and previous equipment

35 % reduction in total length achieved for 105 mm diameter with minimal metal housing

Installation, details, options

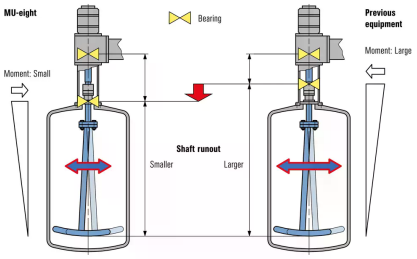
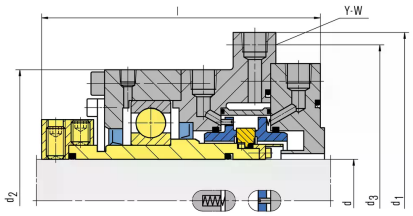


Figure 2
MU-eight and previous equipment

Increased distance between bearings enhances the shaft runout suppression

MU-eight



Dimensions

d	d_1	d_2	d_3	Y-W	l
25	152	104	128	8-M10	155
35	172	114	148	8-M10	162
45	182	134	158	8-M10	169
55	192	140	168	8-M10	171
60	197	145	173	8-M10	172
65	208	155	185	8-M12	177
75	218	170	195	8-M12	189
85	236	180	210	8-M12	192
95	246	200	220	8-M12	199
105	274	210	247	12-M12	199
110	312	238	280	12-M16	225
120	322	248	290	12-M16	225
130	338	263	305	12-M16	229
140	354	278	320	12-M16	237
150	364	296	330	16_M16	255
160	375	316	342	16_M16	259
170	385	326	352	16-M16	263
180	420	354	380	16-M20	296