

# MR-D Double agitator seal





## MR-D

- Double seal
- Independent of direction of rotation
- Rotating seat
- Cartridge unit

## The right chemistry with MR-D!

To get the chemistry right, you need to have the right sealing strategy for the agitators, reactors, mixers and dryers which you use to handle difficult media.

EagleBurgmann MR-D series mechanical seals have an extensive track record going back over years.

The new efficiency and engineering features of the MR-D can help boost the availability and reliability of your production process. Take advantage of the outstanding features of the modular MR-D sealing system and enjoy the benefits of a lower part count, shorter lead times and improved operational, service and maintenance reliability.

### Where the MR-D is right at home: The application spectrum

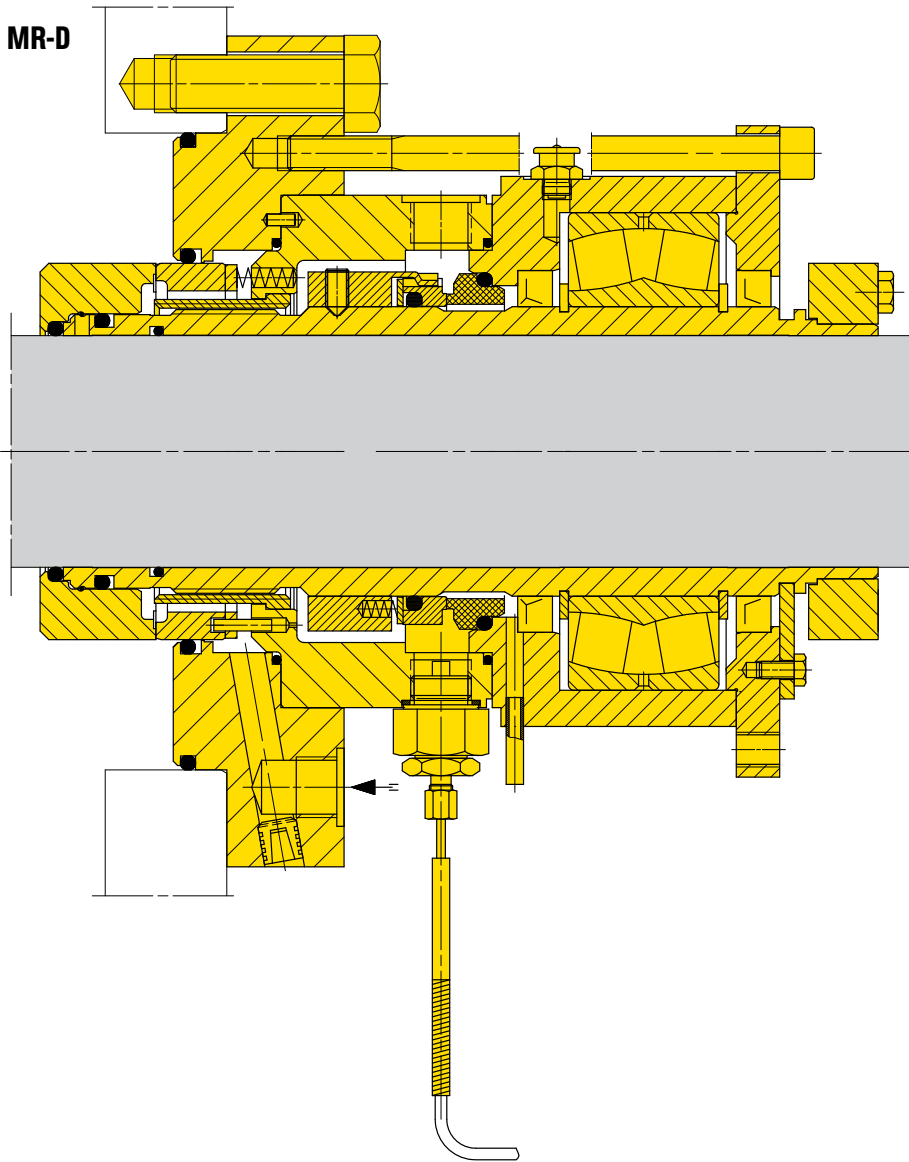
MR-D series agitator seals are ideal for sticky, pasty and dry media in agitators and all types of mixers, dryers, kneaders and reactors in chemical processing and in the plastics, paint, food processing and pharmaceutical industries.

### A sophisticated sealing concept: Special features

Proven, process-optimized MR-D seals feature an optimal shaft sleeve contour, which makes it possible to use solid silicon carbide (SiC) on the inboard rotating seat. The shaft sleeve cannot come into contact with the product, so there is no need for special materials. The surface contour of the MR-D has no empty spaces, and there is minimal contact with the product.

The MR333 version fulfills all of the criteria for sterile applications such as CIP/SIP. The sophisticated, modular design of the MR-D series supports individual options such as floating bearings and an integrated pumping device.

MR double seals require a buffer system (e.g. EagleBurgmann TS2000).



## Large design latitude: Operating limits

$d_1 = 40 \dots 200$  (500 mm)  
 $p_1 = \text{Vakuum} \dots 14$  (23) bar  
 $p_3 = 16$  (25) bar  
 $\Delta p (p_3 - p_1) = 2 \dots 10$  bar,  
 higher  $\Delta p$  on request  
 $t_1 = -20 \text{ }^\circ\text{C} \dots 200$  (300)  $^\circ\text{C}$   
 $v_g = 10$  (20) m/s

## Have you got the right chemistry in your process?

We would be pleased to provide further information about technical details, materials and dimensions for MR-D series seals.

[mrd@eagleburgmann.com](mailto:mrd@eagleburgmann.com)

## Standard Materials

	Product side	Atmospheric side
Seal face	Q1, U	Q1, B
Counter ring	Q1, U	Q1, B
O-rings	E, V, K, M5	
Springs	G, M	
Components	E, G, M	E, G

Other materials on request

All technical specifications are based on extensive tests and our many years of experience. The diversity of possible applications means, however, that they can serve only as guide values. We must be notified of the exact conditions of application before we can provide any guarantee for a specific case. Subject to change.

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EagleBurgmann is one of the leading international companies for industrial sealing technology. Our products are used everywhere that safety and reliability are important: In the oil and gas industries, petroleum refining, chemicals, energy, food, paper, water, marine applications, aerospace and mining. Every day, more than 5000 employees contribute their ideas, solutions and commitment to ensuring that customers all over the world can rely on our seals. Our modular seal service, TotalSealCare™, underlines our commitment to customer orientation and our provision of tailor-made services for every application.

**Burgmann Industries GmbH & Co. KG**

Aeussere Sauerlacher Strasse 6-10

D-82515 Wolfratshausen

Tel.: +49 (0)8171 23 0

Fax: +49 (0)8171 23 12 14

[info@de.eagleburgmann.com](mailto:info@de.eagleburgmann.com)

[www.eagleburgmann.com](http://www.eagleburgmann.com)

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