



General Purpose Removable Metal Diaphragm Seal Type R Series

General Information for Type R Series Seals

- ✓ **R Series** models have **removable, metallic diaphragm, self-retained** in the **upper housing**, for **general pressure** application. There are three basic configurations: **Threaded, Flanged, and Inline Flow-Thru**. See model selection chart below for application specific details.
- ✓ **Standard R Series** models utilize a diaphragm retained between two bolted members. In the **clean-out** design, the diaphragm is situated between the top and middle ring. In the plain design, the diaphragm is located between the top and bottom.
- ✓ **Type R Series** diaphragms have **integral gaskets** with a baked-on **TEFLON®** finish. A **VITON** O-ring also seals the fill fluid cavity.
- ✓ **R Series** models have **0.07 in³** volumetric displacement.
- ✓ **Standard** design operation to **5000 PSI (345 bar)** at **100°F (38°C)**.
- ✓ **R Series** models are available with wetted materials designed for **corrosive applications**.
- ✓ A wide variety of **filling** and **attachment** options are available. If no filling and attachment options are used, enter a dash (" - ") for those characters.
- ✓ **Special** options (15th character) are also available. If no special options are used, enter a dash (" - ") for this character.

Model Selection Guide

Type	Seal Mounting	Operating Temperature	Operating Pressure	Process Application	Flushing Connection
RA	Thread	100°F (38°C)	2500 PSI (172 bar) ¹	Removable Bottom ²	No
RB	Thread	100°F (38°C)	2500 PSI (172 bar) ¹	General Purpose	No
RC	Flange		Flange Dependent	General Purpose	No
RD	Flange		Flange Dependent	General Purpose	Yes
RG	Thread	100°F (38°C)	2500 PSI (172 bar) ³	General Purpose	Yes
RH	Thread	100°F (38°C)	2500 PSI (172 bar) ³	Removable Bottom ²	Yes
RJ	Inline Flow-Thru ^A	100°F (38°C)	1500 PSI (103 bar)	Removable Bottom ²	No
RK	Inline Flow-Thru ^B	100°F (38°C)	1500 PSI (103 bar)	Removable Bottom ²	No
RM	Inline Flow-Thru ^C	100°F (38°C)	1500 PSI (103 bar) ³	Removable Bottom ²	No
RN	Inline Flow-Thru ^D		Flange & Schd Dep	Removable Bottom ²	No
RP	Inline Flow-Thru ^E		Flange & Schd Dep	Removable Bottom ²	No
RR	Flange		Flange Dependent	Tantalum-Clad Lower	No

¹ 5000 PSI elevated pressure available

² Removable bottom without loss of fill fluid.

³ 3000 PSI elevated pressure available

^A Welded by user

^B Thread-attached connection

^C Welded by user, pipe supplied, schedule dependent

^D For 3/4" to 2" pipe diameter.

^E For 3" to 8" pipe diameter

Figure 1: R-Series Seals



Master Gauge Co.



WHEN UNDER PRESSURE THINK OF US!

1150 W. GRAND AVE. CHICAGO, IL 60642 - TOLL-FREE: 1-800-259-2705 - PHONE: 1-312-666-2705 - FAX: 1-312-666-6458 - MASTERGAUGE.CO.COM

© 2009, AMETEK, Inc., All Rights Reserved.