Types MR105 and MR108

High capacity industrial regulators.

NEW

TYPE MR105
HIGH-PRESSURE
ACTUATOR

TYPE MR108
LOW-PRESSURE
ACTUATOR

Types MR105 and MR108

Types MR105 and MR108 regulators provide fast, accurate, and reliable pressure control for a variety of liquid and gas applications. A simple and durable design is utilized to withstand dirt and debris common in many liquid applications without sticking and without compromising shut-off performance. Applications include boiler feed water, cooling water, lubrication oil, and any critical service where the fluid is not free of impurities.

Product advantages:

- Available constructions to meet NACE MR0175-2003 and NACE MR0103 requirements for Sour Gas Service Capability
- ANSI/FCI 70-3-2004 Class VI Shutoff
- Large Flow
- Travel indicator for Type MR105
- Fast Response
- Multiple end connection options
- Suitable for High-Temperature Applications up to 250°F / 121°C

Features:

Actuator Type and Maximum Outlet and Emergency Casing Pressures:
Low-Pressure Actuator: 70 psig / 4,8 bar
High-Pressure Actuator: 400 psig / 27,6 bar(1)
Outlet Pressure Ranges:
5 to 300 psig / 0,35 to 20,7 bar(2)
Temperature Capabilities:
Nitrile (NBR): -20° to 180°F / -29° to 82°C
Fluorocarbon (FKM): 20° to 250°F / -7° to 121°C
Downstream Control Line Connection Size:
1/2 NPT
Maximum Pressure Over Setpoint to Avoid Internal Parts Damage:
Low-Pressure Actuator: 20 psig / 1,4 bar
High-Pressure Actuator: 120 psig / 8,3 bar

1. For constructions with Fluorocarbon (FKM) diaphragm, maximum outlet and emergency casing pressures are limited to 230 psig / 15,8 bar or the body rating limit, whichever is lower.
2. For high-pressure actuator constructions with Fluorocarbon (FKM) diaphragm, maximum set pressure is limited to 150 psig / 10,3 bar.

FISHER®

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EMERSON™
Process Management

The One Stop For Your Complete Industrial Regulating Solutions.

Fisher® pressure reducing and backpressure regulators area available in a wide range of sizes and contructions to satisfy your application requirements.

Pressure Reducing

Model.....Type MR105
Body Size.....NPS 1, 2, 3, and 4
Outlet Pressure Range.....5 to 300 psig
...../ 0,34 to 20,7 bar[2]
Maximum Inlet Pressure.....400 psig / 27,6 bar
Operation Method.....Direct-Operated
Body Material.....Cast Iron, Steel,
.....Stainless Steel
Bulletin No. 71.1:MR105

Model.....95 Series
Body Size.....NPS 1/4, 1/2, 3/4, 1, 1-1/2, and 2
Outlet Pressure Range..... 2 to 400 psig
...../ 0,14-27,6 bar
Maximum Inlet Pressure.....600 psig / 41,4 bar
Operation Method.....Direct-Operated
Body Material.....Cast Iron, Steel,
.....Stainless Steel, Hastelloy C®, Monel®
Bulletin No. 71.1:95

Model.....Type1098-EGR
Body Size..... NPS 1, 2, 3, 4, 6, 8 x 6, 12 x 6
Outlet Pressure Range.....14-inches w.c. to
.....300 psig / 35 mbar to 20,7 bar
Maximum Inlet Pressure.....400 psig / 27,6 bar
Operation Method.....Pilot-Operated
Body Material.....Cast Iron, Steel,
.....Stainless Steel
Bulletin No. 71.1:1098-EGR

Backpressure

Model.....Type MR108
Body Size.....NPS 1, 2, 3, and 4
Control Pressure Range.....5 to 300 psig
...../ 0,34 to 20,7 bar[2]
Maximum Inlet Pressure.....400 psig
...../ 27,6 bar[1]
Operation Method.....Direct-Operated
Body Material.....Cast Iron, Steel,
.....Stainless Steel
Bulletin No. 71.4:MR108

Model.....98 Series
Body Size.....NPS 1/4, 1/2, 3/4, 1, 1-1/2 and 2
Relief Pressure Range.....2 to 375 psig
...../ 0,14 to 25,9 bar
Maximum Inlet Pressure.....400 psig / 28 bar
Operation Method.....Direct-Operated
Body Material.....Cast Iron, Steel,
.....Stainless Steel, Hastelloy® C, Monel®
Bulletin No. 71.4:98

Model.....Type 63EG-98HM
Body Size.....NPS 2, 3, 4, 6, and 8 x 6
Relief Pressure Range.....15 to 375 psig
...../ 1,0 to 25,9 bar
Maximum Inlet Pressure.....450 psig / 31,0 bar
Operation Method.....Pilot-Operated
Body Material.....Steel, Stainless Steel,
.....Hastelloy® C, Monel®, and Alloy 20
Bulletin No. 71.4:63EG-98HM

1. For high-pressure actuator constructions with Fluorocarbon (FKM) diaphragm, maximum outlet and emergency casing pressures are limited to 230 psig / 15,8 bar or the body rating limit, whichever is lower.
2. For high-pressure actuator constructions with Fluorocarbon (FKM) diaphragm, maximum set pressure is limited to 150 psig / 10,3 bar.

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