

## Compact, General-Purpose Dome-Loaded Pressure-Reducing Regulators—RD2 Series

### Features

- Piston sensing
- Integral 25 µm filter
- Cartridge poppet assembly for ease of service
- Bottom mounting

### Options

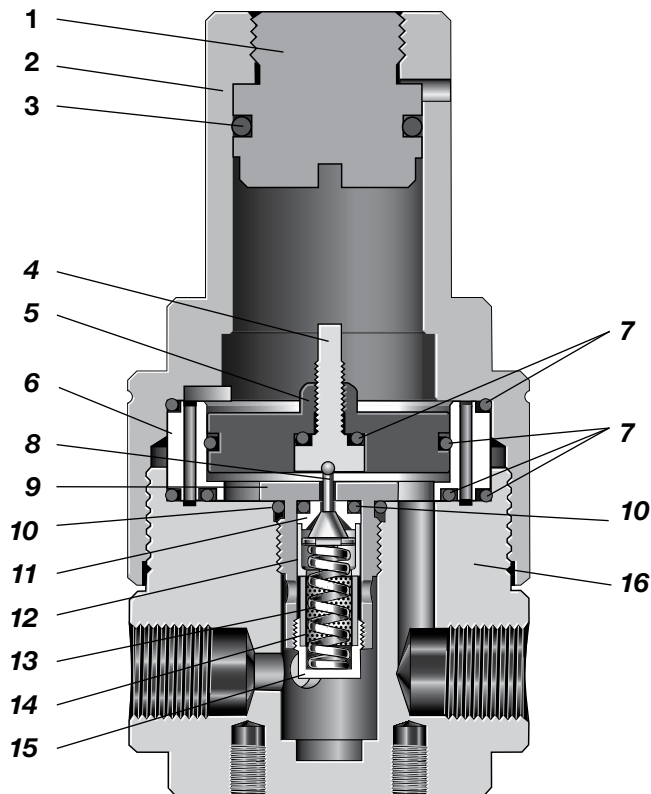
- No filter—for liquid applications
- NACE MR0175/ISO 15156-compliant models (nonventing and no-filter models only)
- Special cleaning to ASTM G93 Level C
- Panel mounting kit sold separately—no disassembly required



### Technical Data

Series	Maximum Inlet Pressure psig (bar)	Maximum Outlet Control Pressure psig (bar)	Sensing Type	Temperature Range °F (°C)	Flow Coefficient (C <sub>v</sub> )	Seat Diameter in. (mm)	Inlet and Outlet Connections	Gauge / Dome Connection	Weight lb (kg)
RD2	5800 (400)	5800 (400)	Piston	-4 to 176 (-20 to 80) See <b>Pressure-Temperature Ratings</b> , page 32.	0.05	0.087 (2.2)	1/4 in. NPT	Gauge: 1/4 in. NPT Dome: 1/8 in. NPT	3.1 (1.4)

### Materials of Construction



Component	Material / Specification
1 Dome plug	316L SS / A479 or EN10088
2 Dome	
3 Dome plug O-ring	FKM, EPDM, nitrile, or FFKM
4 Non-relieving plug	316L SS / A479 or EN10088
5 Piston	
6 Piston plate	FKM, EPDM, nitrile, or FFKM
7 Piston O-rings	
8 Poppet	431 SS / A276 or EN10088
9 Poppet housing	316L SS / A479 or EN10088
10 O-rings	FKM, EPDM, nitrile, or FFKM
11 Seat	PEEK or PCFTE
12 Seat retainer	316L SS / A479 or EN10088
13 Poppet spring	302 SS / A240
14 Filter	316L SS / A479 or EN10088
15 Plug	
16 Body	

*Wetted lubricants: Silicone-based and synthetic hydrocarbon-based*

*Wetted components listed in italics.*

*Gauge plugs (not shown): 431 SS / A276.*

### Flow Data

The graphs illustrate the change or “droop” in outlet pressures as the flow rate increases. For more flow curve information, contact your authorized Swagelok representative.

### RD2 Series

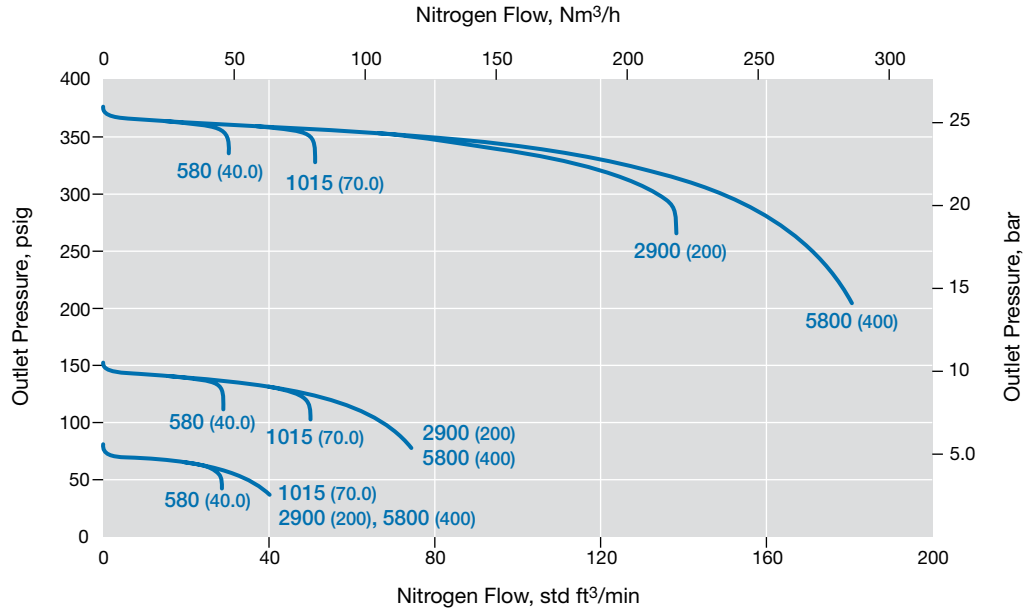
**Flow Coefficient: 0.05**

**Maximum Inlet Pressure: RD2—5800 psig (400 bar)**

**Outlet Pressure Control Range: 0 to 5800 psig (0 to 400 bar)**

**Pressure Control Range**

— 0 to 5800 psig (0 to 400 bar)



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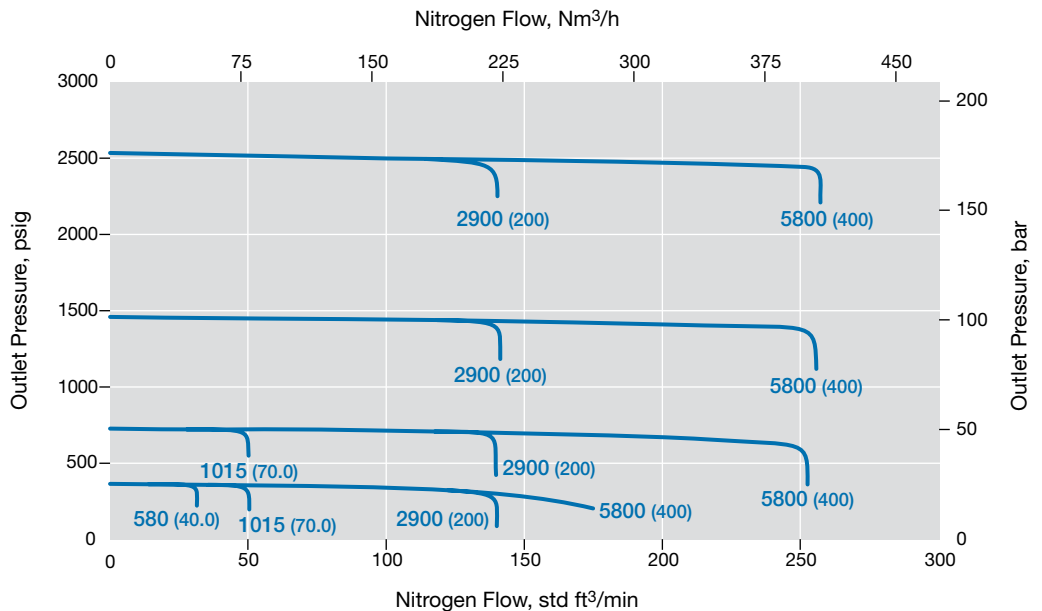
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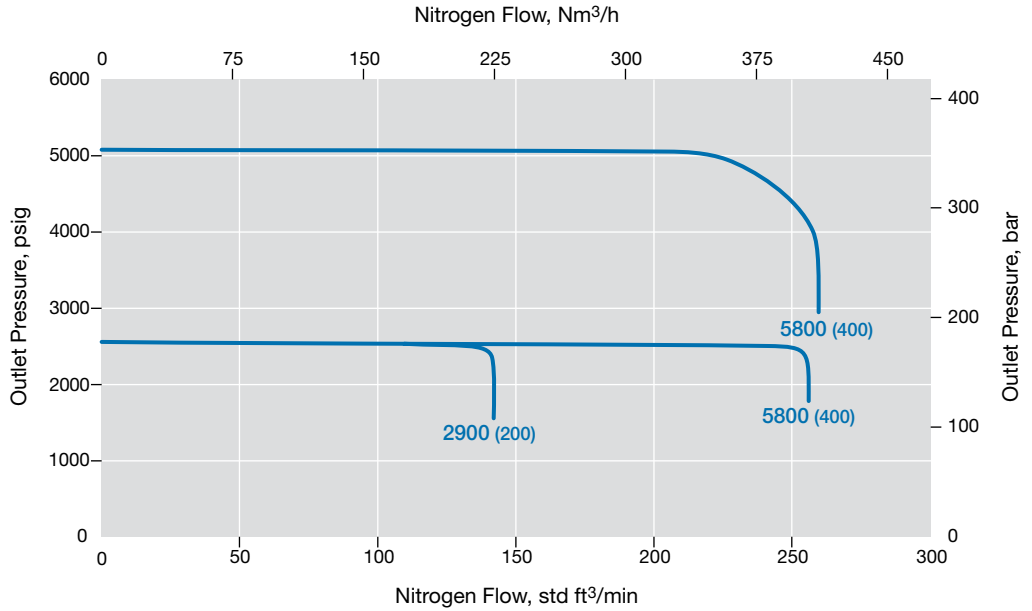
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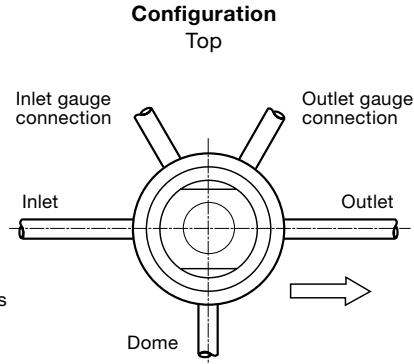
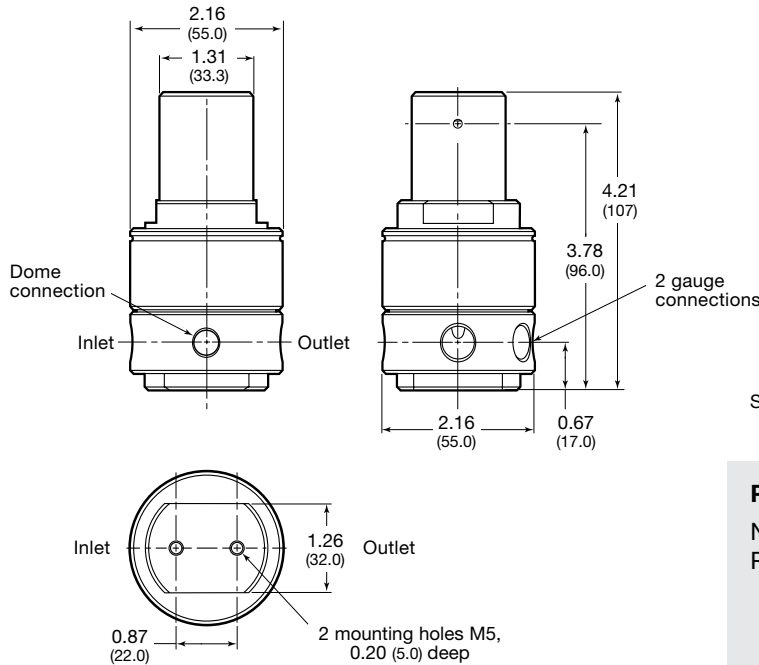
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### Dimensions

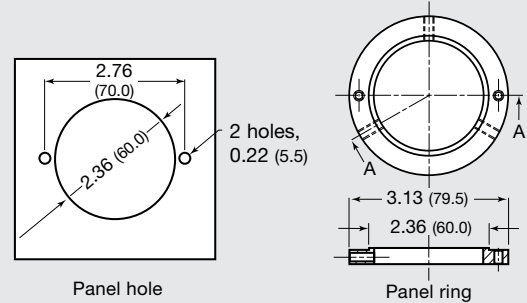
Dimensions, in inches (millimeters), are for reference only and are subject to change.



Shown with tubing for clarity; tubing not included.

### Panel Mounting Kit

No disassembly required when using panel mount kit. Panel mounting kit ordering number: **RS2-P-02**



### Ordering Information

Build an RD2 series regulator ordering number by combining the designators in the sequence shown below.

**1** **2** **3** **4** **5** **6** **7**  
**RD N2 - 02 - V V K - L**

**1 Series**

RD = 5800 psig (400 bar) maximum inlet pressure

**2 Inlet / Outlet**

N2 = 1/4 in. female NPT

**3 Body Material**

02 = 316L SS

**4 Seal Material**

V = Fluorocarbon FKM  
 N = Nitrile  
 E = EPDM  
 F = FFKM

**5 Piston Seal Material**

V = Fluorocarbon FKM  
 N = Nitrile  
 E = EPDM  
 F = FFKM

**6 Seat Material**

K = PCTFE  
 P = PEEK

**7 Options**

L = No filter  
 N = NACE MR0175/ISO 15156  
 G93 = ASTM G93 Level C-cleaned