

HFRG4 SERIES



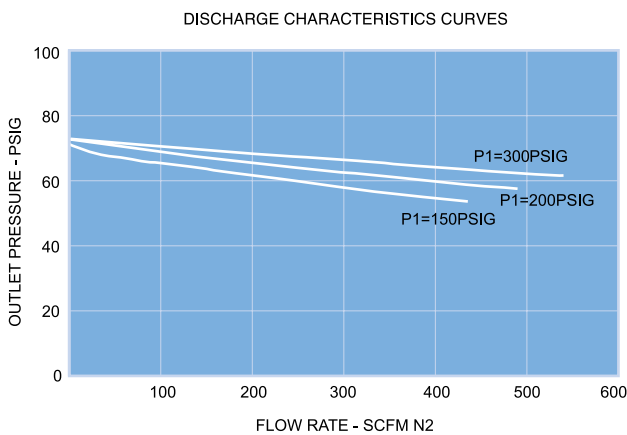
HIGH FLOW REGULATOR

- A regulator for the control of high purity, corrosive, toxic, flammable and inert gases at high flow rate and low pressure.
- Every step of assembly, welding, testing and final cleaning finished in Class 100 Cleanrooms.
- Low droop and High flow.

SPECIFICATIONS

Pressure Rating	
Max. rated inlet pressure	300 PSIG
Outlet pressure	1-30, 1-60, 1-100 or 1-150 PSIG
Design proof pressure	150% of Maximum rated pressure
Materials in Contact with Media	
Body	316L Stainless Steel
Seat	FKM (Contact manufacturer for the use of toxic gas)
Diaphragm	PTFE
Gas contact parts	316L Stainless Steel
Other Parameters	
Flow coefficient	1/2" = Cv2.0, 3/4" = Cv3.0, 1" = Cv5.0
Temperature	PTFE : -44°C to + 71°C
Inboard leak rate	2 x 10 ⁻⁸ atm cc / sec He
Weight (w/o gauges)	15lbs. (6.8kg)

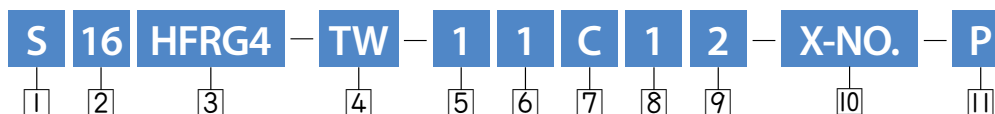
FLOW CURVES



MATERIAL

Wetted Parts	HFRG4 Series
Body	316L Stainless Steel
Seat Holder	316L Stainless Steel
Main Valve	316L Stainless Steel FKM
Valve Spring	316 Stainless Steel
Seat	FKM
Diaphragm	PTFE

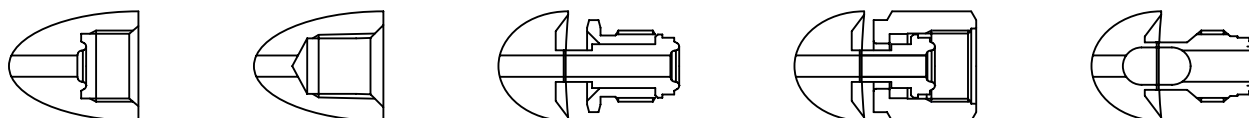
ORDERING INFORMATION



1 Material	S = 316L Stainless steel D = 316L Stainless steel VAR
2 Connection Size	8 = 1/2" 12 = 3/4" 16 = 1"
3 Product	HFRG4 SERIES
4 Connection Type	TW = Tube Butt Weld VF = Female Type Face Seal VM=Male Type Face Seal
5 Maximum Inlet Pressure	1 = 300 PSIG
6 Maximum Range of Inlet Gauge	1 = 300 PSIG Blank = No Gauge
7 Gauge Port Configuration	A = No Gauge Port (Fig. A) B = 1/4" Internal Face Seal (Fig. C) C = 1/4" Internal Face Seal (Fig. B) D = 1/4" Internal Face Seal (Fig. D) E = 1/4" Male Face Seal (Fig. D) F = 1/4" Male Face Seal (Fig. C) G = 1/4" Male Face Seal (Fig. B) H = 1/4" Female Face Seal (Fig. D) I = 1/4" Female Face Seal (Fig. C) J = 1/4" Female Face Seal (Fig. B) K = 1/4" Fixed Male Face Seal (Fig. B) L = 1/4" Fixed Male Face Seal (Fig. C) M = 1/4" Fixed Male Face Seal (Fig. D) N = 1/4" Female NPT Thread (fig. B) O = 1/4" Female NPT Thread (fig. C) P = 1/4" Female NPT Thread (fig. D)
8 Outlet Pressure Range	0 = 1 ~ 30 PSIG 1 = 1 ~ 60 PSIG 2 = 1 ~ 100 PSIG 3 = 1 ~ 150 PSIG
9 Maximum Range of Outlet Gauge	0 = 30 PSIG 1 = 60 PSIG 2 = 100 PSIG 3 = 160 PSIG Blank = No Gauge
10 User Option	Customization (※Standard : Blank)
11 Grade	Blank = BA Standard (10 Ra μinch) P = Electropolishing (5 Ra μinch)

GAUGE PORT INFORMATION

1/4" INTERNAL FACE SEAL 1/4" FEMALE NPT THREAD 1/4" MALE FACE SEAL 1/4" FEMALE FACE SEAL 1/4" FIXED MALE FACE SEAL



PORT CONFIGURATION

