TRG SERIES



ULTRA HIGH PURITY REGULATOR

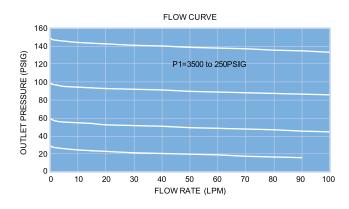
- Designed for point-of-use medium flow to be used in process gas cabinets for gas companies, equipment manufactures and semiconductor manufacturers.
- All internal surfaces are finished with 10Ra or 5Ra to ensure minimal particle generation and entrapment.
- · Metal-to-metal diaphragm seals provide enhanced leak tight integrity.
- Every step of assembly, welding, testing and final cleaning finished in Class 100 Cleanrooms.

SPECIFICATIONS

All gases corrosive or non-corrosive or those requiring high purity regulation compatible with materials of construction. For other media, consult with factory.

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Per criteria of ANSI / ASME B31.3.				
Max. rated inlet pressure		3500 PSIG (241bar)		
Outlet pressure ranges		1-30, 1-60, 1-100, 1-150 PSIG (0.1, 2.1, 0.1- 4.1, 0.1- 6.9, 0.1-10.3 bar)		
Design proof pressure		150% of Maximum rated pressure		
Materials in Contact with Media				
Body		316L Stainless Steel with BA, Electropolish		
Seat		PCTFE		
Diaphragm		Hastelloy C-22		
Gas contact parts		316L Stainless Steel / Hastelloy C-22 / Inconel 750		
Other Parameters				
Flow coefficient		Cv=0.06		
Certified maximum inboard leak rate		1 x 10 ⁻⁹ atm cc / sec He		
Internal surface finish		10Ra or 5Ra microinch (.25 or .13 micrometer)		
Operating temperature	PCTFE seat	-15°F to +176°F (-26°C to +80°C)		
Weight (w/o gauges)		3.5 lbs. (1.6kg)		

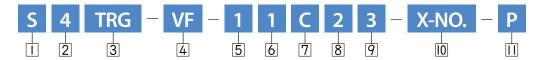
FLOW CURVES



MATERIAL

RG1 Series	
316L Stainless Steel	
316L Stainless Steel Hastelloy C-22	
316L Stainless Steel Hastelloy C-22	
316 Stainless Steel Inconel 750	
316L Stainless Steel Hastelloy C-22	
PCTFE (Option : PI)	
Hastelloy C-22	

ORDERING INFORMATION



	S = 316L Stainless steel		
Ⅲ Material	S = 316L Stainless steel SH = 316L Stainless steel with Hastelloy internals DH = 316L Stainless steel VAR with Hastelloy internals		
2 Connection Size	4 = 1/4"		
3 Product	TRG Series		
4 Connection Type	VF = Female Type Face Seal TW = Tube Butt Weld VM = Male Type Face Seal VF x VM = Female Type Face Seal x Male Type Face Seal		
5 Maximum Inlet Pressure	1 = 3500 PSIG		
6 Maximum Range of Inlet Gauge	1 = 4000 PSIG Blank = No Gauge		
☐ 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. C)	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)	
8 Outlet Pressure Range	0 = 1 ~ 30 PSIG 1 = 1 ~ 60 PSIG 2 = 1 ~ 100 PSIG 3 = 1 ~ 150 PSIG		
Maximum Range of Outlet Gauge	0 = 30 PSIG 1 = 60 PSIG 2 = 100 PSIG 3 = 150 PSIG 4 = 200 PSIG Blank = No Gauge		
10 User Option	Customization (%Standard : Blank)		
Ⅲ Grade	Blank = BA Standard (10 Ra μinch) P (PX) = Electropolishing (5 Ra μinch)		

PORT CONFIGURATION

