

PRESSURE REGULATORS

High-Purity



Y11-N145DHF



Y11-N140EHF

High-Flow Models

Description: This series of regulators is used for applications requiring high gas flow rates and a compact design. These regulators can handle flows up to 250 liters per minute of nitrogen with only a 5 psig pressure drop. In addition, these units will handle hydrogen flow up to 1,000 liters per minute without the resonance problems associated with other regulators in this same application.

Design Features

Stainless Steel Diaphragm

provides precise pressure control and superior leak integrity.

Cv Flow Coefficient = 1.0

permits high flows with minimum pressure drop.

Stabilizer Springs

eliminate regulator resonance.

Specifications

Maximum Rated Inlet Pressure	3,000 psig
Outlet Pressure Ranges	0-15, 0-40, 0-120, 0-200, 0-250 psig
Flow Capacity	Cv=1.0
Ambient Operating Temperature	-40° F to +140° F
Designed Leak Rate	1 x10 ⁻⁸ ccs (helium)
Weight	5.8-lbs
Gauge Port(s)	1/4" FNPT
Inlet	1/2" FNPT
Outlet	1/2" FNPT

Materials

Body	Brass or Stainless Steel
Bonnet	Chrome-plated die cast Zinc
Seat	PCTFE
Diaphragm	Stainless Steel
Gauges	2 1/2" Nickel-Plated Brass or Stainless Steel
Valve Stem	PTFE
Valve Spring	Nickel-Plated Brass
Trim	Nickel-Plated Brass or Stainless Steel

Ordering Information

Product Number	Material	Max Inlet Pressure (psig)	Max Outlet Pressure (psig)	Capacity (scfh @ Max Del. Pressure)	Inlet Gauge Range (psig)	Delivery Gauge Range (psig)
Y11-N140AHF	Brass	3000	15	2400	N/A	0-30
Y11-N140BHF	Brass	3000	40	4200	N/A	0-60
Y11-N140DHF	Brass	3000	120	7200	N/A	0-200
Y11-N140EHF	Brass	3000	200	9000	N/A	0-400
Y11-N140FHF	Brass	3000	250	9000	N/A	0-400
Y11-N145AHF	Brass	3000	15	2400	0-4000	0-30
Y11-N145BHF	Brass	3000	40	4200	0-4000	0-60
Y11-N145DHF	Brass	3000	120	7200	0-4000	0-200
Y11-N145EHF	Brass	3000	200	9000	0-4000	0-400
Y11-N145FHF	Brass	3000	250	9000	0-4000	0-400

Ordering Information

Product Number	Material	Max Inlet Pressure (psig)	Max Outlet Pressure (psig)	Capacity (scfh @ Max Del. Pressure)	Inlet Gauge Range (psig)	Delivery Gauge Range (psig)
Y11-C440AHF	SS	3000	15	2400	N/A	0-30
Y11-C440BHF	SS	3000	40	4200	N/A	0-60
Y11-C440CHF	SS	3000	120	7200	N/A	0-200
Y11-C440DHF	SS	3000	200	9000	N/A	0-400
Y11-C440FHF	SS	3000	250	9000	N/A	0-400
Y11-C445AHF	SS	3000	15	2400	0-4000	0-30
Y11-C445BHF	SS	3000	40	4200	0-4000	0-60
Y11-C445DHF	SS	3000	120	7200	0-4000	0-200
Y11-C445EHF	SS	3000	200	9000	0-4000	0-400
Y11-C445FHF	SS	3000	250	9000	0-4000	0-400