

Four-Stage Regulator for Natural Gas Standard

Description: The Airgas/Mustang Joule-Thomson regulator is a four-stage pressure regulator designed to compensate for the Joule-Thomson cooling during sample extraction. This regulator is designed with a ratio controlled multi-piston that ensures the first three stages are always functional, even with fluctuations to the inlet pressure.

Joule-Thomson regulator can be utilized in any application requiring multi-stage pressure regulation for sample conditioning and calibration gas cylinders. Having this regulator located downstream of a sample probe, permits a four-stage reduction in pressure without distorting the composition of a vapor sample.

When this regulator is used in combination with insertion probes it is the most practical means for conforming to the API14.1 and GPA 2166 standards.



Specifications	
Maximum Inlet Rated Pressure	6,000 psig
Outlet Pressure Range	0-10, 0-50, 0-100 psig
Ambient Temperature Range	-40° F to +400°F
Ports (2)	¼" NPT Female
Weight	6 lbs

Materials	
Body	316 Stainless Steel
Bonnet	316 Stainless Steel
Piston	Stainless Steel
O-Rings	Viton or John Walker
All Other Wetted Parts	Stainless Steel

Design Features

- Four stages – offsets Joule -Thomson cooling
- Small internal design – no dead volume and low internal volume
- Meets practical standards – with assistance from an insertion probe conforms to API 14.1 and GPA 2166. CRN approved

Ordering Information

Product Number	Material	Max Inlet Pressure (psig)	O-Ring Seal (scfh @ Max Del. Press.)	Max Outlet Pressure (psig)
Y80-M44VA	316 Stainless Steel	6000	Viton	0-10
Y80-M44VC	316 Stainless Steel	6000	Viton	0-50
Y80-M44VD	316 Stainless Steel	6000	Viton	0-100
Y80-M44JWA	316 Stainless Steel	6000	James Walker	0-10
Y80-M44JWC	316 Stainless Steel	6000	James Walker	0-50
Y80-M44JWD	316 Stainless Steel	6000	James Walker	0-100

James Walker has similar characteristic as Kalrez.