

HRF 2400 Series

- Medium duty
- Regulator / flowmeter combination in one compact unit
- MIG / TIG applications
- Ideal for all applications where dependability is needed
- Calibrated tube at 25 PSIG (not on HRF 2480)

Dimensions: 5.63" W x 8.25" H x 3" D
(143.0mm x 209.6mm x 76.2mm)

Weight: 2 lb. 8 oz. (1.13kg)

DESIGN/CONSTRUCTION

- Machined brass body and housing cap
- Back pressure compensated
- Fabric reinforced neoprene diaphragm
- Internal self reseating relief. Not designed to protect downstream equipment.
- Sintered inlet filter - bronze
- Cover tube contains overpressure protection

PERFORMANCE

Maximum inlet..... 3000 PSIG

Outlet pressure preset

HRF 2425 25 PSIG

HRF 2480 80 PSIG

Flow capacity see chart

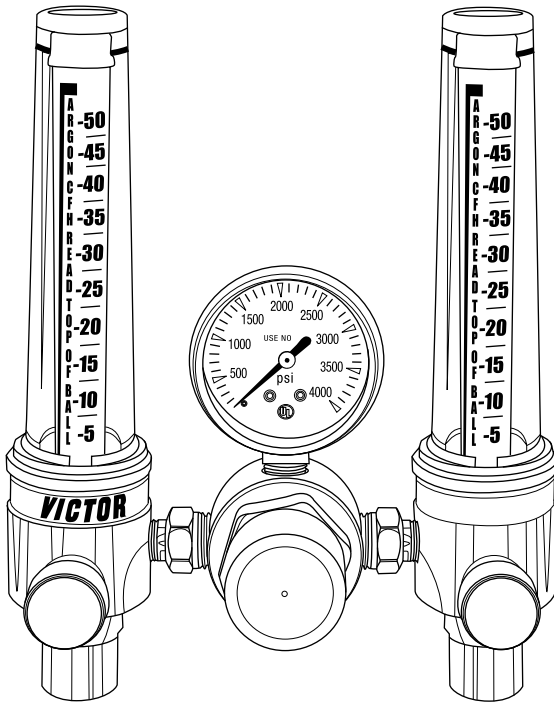
SAMPLE ORDERING INFORMATION

Model No.	CGA Inlet Connection
HRF 2480	320

Gas Service	Model No.	Part No.	Flow Range (SCFH)	Specify CGA Inlet Connection	Flow Tube Ball
Argon, Argon/CO ₂ Mix, Helium,	HRF 2425 Preset @ 25 PSIG	0781-2731	10-50 (Argon) 20-150 (Helium)	580	1015-0057
CO ₂ , CO ₂ Mix	HRF 2480 Preset @ 80 PSIG	0781-2727 0781-2728	10-38 (CO ₂) 7.5-37.5 (Argon)	320 320, 580	1015-0058

Outlet Connections: 5/8"-18 RH(F), CGA 032

WARNING: High gas withdrawal rates on carbon dioxide may require cylinder manifolding. Consult your gas supplier.



DFM 150 Series

- Designed to monitor two separate processes or gas flows
- Ideal for applications where shielding gas and back purge requirements are needed
- Designed to offer convenience for the maintenance and fabrication industries

Dimensions: 5.5" W x 6.5" H x 5" D
(139.7mm x 165.1mm x 127.0mm)

Weight: 2 lb. 9 oz. (1.16kg)

DESIGN/CONSTRUCTION

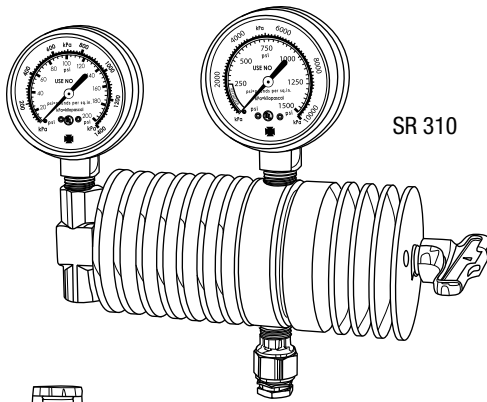
- Brass body
- Teflon seat mechanism
- Sintered inlet filter - bronze
- Music wire - spring
- Piston - brass
- Ball (flowmeter version) - aluminum
- Cover tube - lexan

Flowmeter shows actual flow.

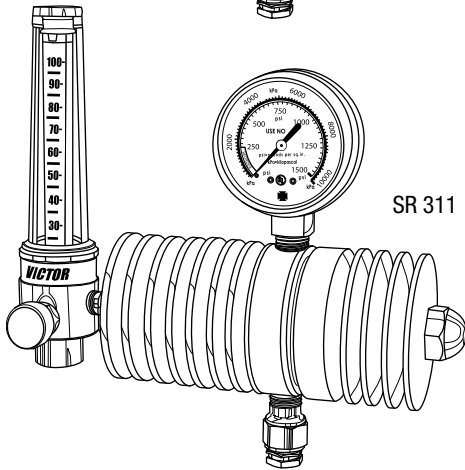
Gas Service	Model No.	Part No.	Flow Range (SCFH)	CGA Inlet Connection	MAX Inlet (PSIG)	HP Gauge	Replacement Tube & Float
Argon, Helium	DFM 150-580	0781-1153	5-50 SCFH (Argon) 20-150 (Helium)	580	3000	0-4000	1015-0057

Outlet Connection: 5/8"-18 RH(F), CGA 032

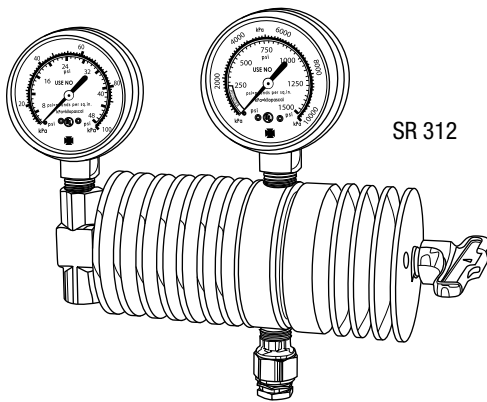
Preset Pressure: 25 PSIG



SR 310



SR 311



SR 312

SR 310, SR 311 & SR 312 Series

- Designed for CO₂ application (non-siphoned tube cylinders)
- High flow CO₂ applications (SR 310 100 PSIG) (SR 311/312 100 SCFH) with adequate supply or source
- Designed for core wire applications

Dimensions: 8.38" W x 7.25" H x 2.5" D
(212.9mm x 184.2mm x 63.5mm)

Weight: 2 lb. 15 oz. (1.33kg)

DESIGN/CONSTRUCTION

- Machined aluminum body and housing cap
- 2" (50.8mm) gauge
- Stem type seat mechanism
- 1.75" (44.5mm) diaphragm - fabric reinforced neoprene
- Self reseating relief valve (not designed to protect downstream equipment)
- Sintered inlet filter - bronze

PERFORMANCE

Maximum inlet..... 1500 PSIG

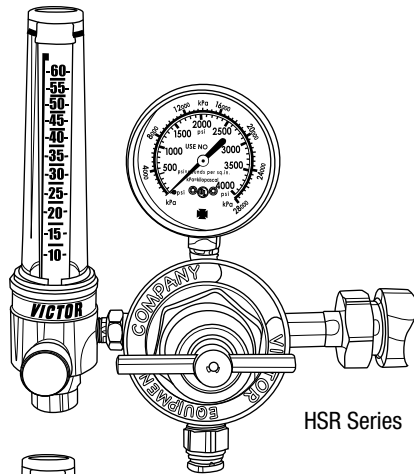
Delivery range 100 SCFH

High gas withdrawal rates may cause regulator freeze up and will require cylinder manifolding. Consult your gas supplier. See page 35, for Gas Heater.

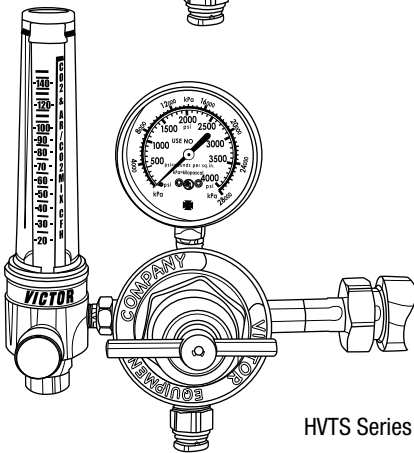
A regulator equipped with a flow gauge is not accurate when a back pressure in excess of 2 PSIG exists at the outlet. Back pressure is caused by a restriction in the equipment downstream of the flowgauge. Metering valves, kinked hoses or even very long hoses are restrictions that can cause back pressure. In applications where back pressure in excess of 2 PSIG can be expected, a regulator equipped with a flowmeter should be used.

Gas Service	Model No.	Part No.	Flow Range (SCFH/LPM)	CGA Inlet Connection
CO ₂	SR 310 Adjustable Pressure Gauge	0781-0355	10-200 Pressure Delivery	320
CO ₂	SR 311 (Preset @ 80 PSIG) Flowmeter	0781-0353	25-100	320
CO ₂	SR 312 Flowgauge	0781-0354	0-100	320

Outlet Connection: 5/8" -18 RH(F)
Adapter: 5/8" -18(M) x 1/4" NPT(M)



HSR Series



HVTS Series

HSR & HVTS Series

- Medium duty
- Single or two stage design
- Compact in size
- Accurate regulator for gas flow
- MIG / TIG applications
- Two stage version provides extremely accurate flow rates as cylinder pressure declines
- Low surge rates. 25 PSI preset

HSR MODELS (SINGLE STAGE)

Dimensions: 7" W x 6.25" H x 4.25" D
(177.8mm x 158.8mm x 108.0mm)

Weight: 3 lb. 3 oz. (1.45kg)

HVTS MODELS (TWO STAGE)

Dimensions: 7" W x 5.5" H x 6.5" D
(177.8mm x 139.7mm x 165.1mm)

Weight: 4 lb. 10 oz. (2.10kg)

DESIGN/CONSTRUCTION

- Forged brass body and housing cap
- 2" (50.8mm) high pressure gauge
- Stem type seat mechanism
- Fabric reinforced neoprene diaphragm
- External self reseating relief valve. Not designed to protect downstream equipment
- Sintered inlet filter - bronze

PERFORMANCE

Maximum inlet.....3000 PSIG
 Outlet pressure25 PSIG (preset)
 Flow capacitysee chart

SAMPLE ORDERING INFORMATION

Model No.	CGA Inlet Connection
HSR 2530	580

Gas Service	Model No.	Part No.	Flow Range (SCFH)	Specify CGA Inlet Connection	Replacement Tube & Float	GAS Calibrations
Nitrogen/Air	*HSR 2530	0781-3819	10-60	580	1015-0070	2
Argon/Helium	*HSR 2535	0781-3867	4-18 / 10-50	580	1015-0071	2
	*HVTS 2535	0781-3775	4-18 / 10-50	580	1015-0071	
	*HSR 2537	0781-3871	15-65 / 40-200	580	1015-0064	
	*HVTS 2537	0781-3772	15-65 / 40-200	580	1015-0064	
Argon Argon/(CO ₂) Mix Helium	*HSR 2570	0781-3873	5-50	580	1015-0057	3
		0781-3869	5-40	580		
	*HVTS 2570	0781-3774	20-150	320		
Fuel Gas, Hydrogen	HSR 2533	0781-3825	5-40	350	1051-0070	2

*Outlet Connections: 5/8"-18 RH(F)

WARNING: High gas withdrawal rates on carbon dioxide may require cylinder manifolding. Consult your gas supplier.