

### ESS7

#### High Flow

##### DESIGN/CONSTRUCTION

- 2.5" (63.5 mm) gauges – brass
- 2.7" (68.6 mm) diaphragm – fabric reinforced neoprene

##### DIMENSIONS

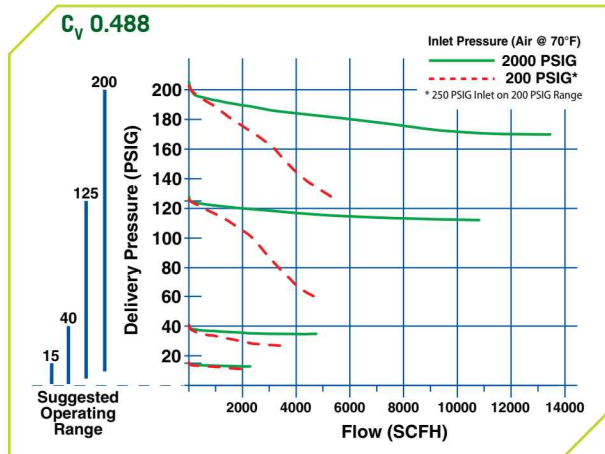
6.8"W x 6.9"H x 5.4"D  
(172.7 mm x 175.3 mm x 137.1 mm)

##### WEIGHT

4.9 lb (2.22 kg)



ESS7 FLOW DATA - EDGE Series High-Flow



Gas Service	Part No.	Model No.	Delivery Range (psig)
Air, Oxygen, Inert Gas	0781-5184	ESS7-200-346	10-200
	0781-5181	ESS7-125-540	5-125
	0781-5183	ESS7-200-540	10-200
	0781-5220	ESS7-200-992	10-200
	0781-5182	ESS7-125-580	5-125
	0781-5185	ESS7-200-580	10-200
Methane/Hydrogen	0781-5186	ESS7-200-350	10-200
Acetylene	0781-5187	ESS7-15-510	2-15
L.P. Gas	0781-5188	ESS7-125-510LP	5-125

Outlet Connection 7/8"-14(M)

Like other regulators



#### EDGE ADJUSTING LOCK

Ideal for setting pressures and avoiding tampering by others. Comes with three color decals - red, green, black.



Part No: 0750-0221

### SR 450

#### Heavy Duty

##### DESIGN/CONSTRUCTION

- 2.5" (63.5 mm) gauges – brass
- 3.25" (82.6 mm) diaphragm – stainless steel

##### DIMENSIONS

7.25 W x 7" H x 5.13" D  
(184.2 mm x 177.8 mm x 130.3 mm)

##### WEIGHT

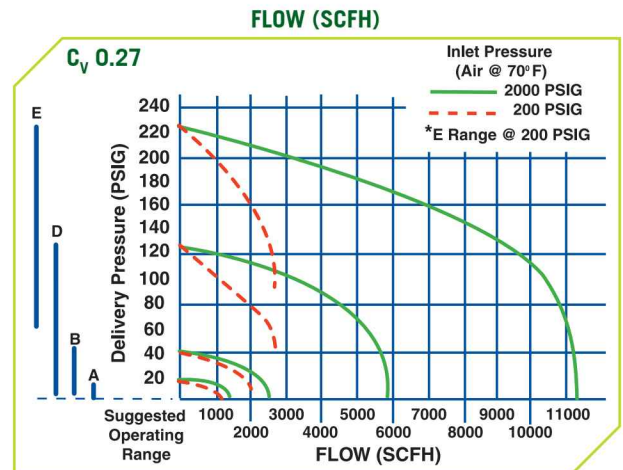
5 lb 2 oz (2.32 kg)

The shape of the SR450 Series regulator is a registered trademark of Victor.



##### PERFORMANCE

Maximum inlet – 3000 psig



Gas Service	Part No.	Model No.	Delivery Range (psig)
Air, Oxygen, Inert Gas	0781-0532	SR 450D-346	5-125
	0781-0527	SR 450D-540	5-125
	0781-0528	SR 450D-580*	5-125
	0781-0543	SR 450E-580*	10-200
Acetylene	0781-0583	SR 460A-300	2-15
	0781-0584	SR 460A-510	2-15
L.P. Gas	0781-0589	SR 461B-510	2-40
	0781-0595	SR 461D-510	5-125

Outlet Connections: Cylinder Type – 9/16"-18 (M), \*9/16"-18 (F) RH

## SR 4

### High Pressure

Heavy duty, high pressure piston regulator. Ideally suited for pressure vessel and dead-end testing. Delivery pressures up to 4500 psig on some models.

#### DESIGN/CONSTRUCTION

- Machined brass body & housing cap
- 2.5" (63.5 mm) gauges – brass
- Cartridge type seat assembly with PCTFE seat
- Piston type actuation – brass
- Delrin cap bushing for smooth adjustments
- External adjustable relief valves on F and G range models
- Hydrogen models have ventable relief valves (J Series does not)
- Sintered inlet filter – bronze

#### DIMENSIONS

6" W x 6.5" H x 6.25" D (152.4 mm x 165.1 mm x 158.8 mm)

#### WEIGHT

4 lb (1.81 kg)

#### PERFORMANCE

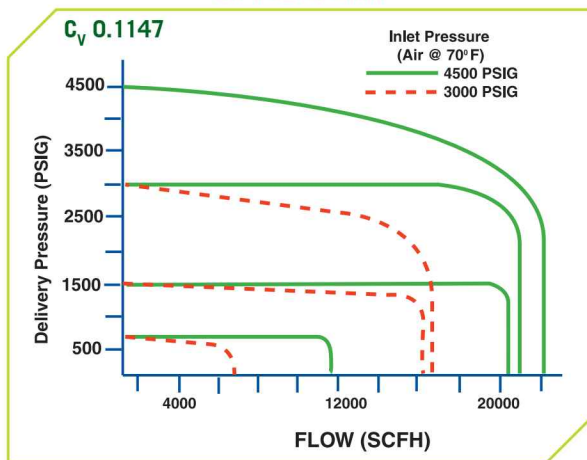
- Maximum Inlet
  - 7500 psig with CGA 677
  - 6000 psig without inlet fitting
  - 5500 psig with CGA 701, 680, 347
  - 4000 psig with CGA 577
  - 3000 psig with CGA 540, 580, 346, 350

#### PANEL MOUNTING DETAILS

- All SR 4 Series regulator models may be panel mounted.
- (1.75" (44.5 mm) hole required in panel for mounting)
- For a flush panel mount installation order one panel mount nut 1409-0093. For an adjustable panel mount installation order two panel mount nuts 1409-0093.



SR 4 FLOW DATA



Gas Service	Part No.	Model No.	Delivery Range (psig)
Oxygen	0781-1405	SR 4F-540	50-750
	0781-1425	SR 4G-540	100-1500
	0781-1445	SR 4J-540	200-3000
	0781-1408	SR 4F-580	50-750
Inert Gas	0781-1410	SR 4F-680	50-750
	0781-1428	SR 4G-580	100-1500
	0781-1430	SR 4G-680	100-1500
	0781-1448	SR 4J-580	200-3000
	0781-1450	SR 4J-680	200-3000
	0781-1453	SR 4J-677	200-3000
	0781-1470	SR 4K-680	300-4500
Air	0781-1473	SR 4K-677	300-4500
	0781-1403	SR 4F-347	50-750
	0781-1422	SR 4G-346	100-1500
	0781-1442	SR 4J-346	200-3000
Methane, Hydrogen	0781-1463	SR 4K-347	300-4500
	0781-1404	SR 4F-350	50-750
	0781-1424	SR 4G-350	100-1500
CO <sub>2</sub>	0781-1444	SR 4J-350	200-3000
	0781-1401	SR 4F-320	50-750
Panel Mount 1/4" NPT Inlet	0781-1415	*SR 4PF-250	50-750
	0781-1420	*SR 4PG-250	100-1500
	0781-1455	*SR 4PJ-250	200-3000
	0781-1475	+SR 4PK-250	300-4500
Manifold High Pressure	0781-1454	SR 4TJ-996	200-3000

Inlet: \*1/4" NPT(F)  
 Outlet Fitting: 1/4" Swagelok type stainless steel.  
 +5/8"-20 UNF(M) inlet 1/8" NPT(F) outlet

### SR 600

#### Heavy Duty

Single stage regulator designed for pressure testing and ideal where 350 or 550 psig (maximum) delivery pressures are needed, such as dead-end testing

#### DESIGN/CONSTRUCTION

- Forged brass body & housing cap
- 2.5" (63.5 mm) gauges – brass (6000 lb high pressure, 600 lb and 1000 lb low pressure)
- Cartridge type seat assembly with PCTFE seat
- Diaphragm –stainless steel
- External self-reseating relief valve
- CGA 540, 580, 346 have a maximum inlet pressure of 3000 psig

#### DIMENSIONS

7.5" W x 6" H x 5" D (190.5 mm x 152.4 mm x 127.0 mm)

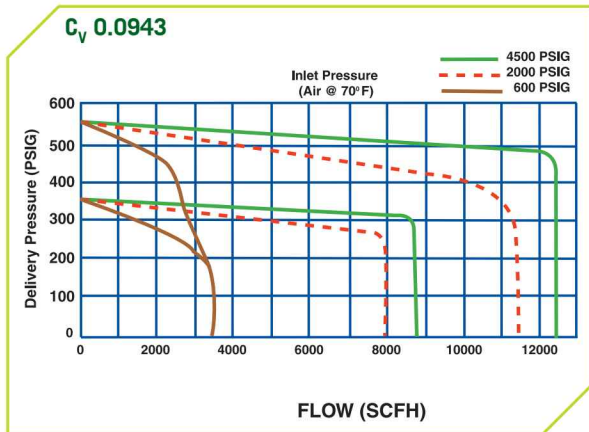
#### WEIGHT

5 lb 7 oz (2.47 kg)

#### PERFORMANCE

- Maximum inlet – 5500 psig
- Outlet pressure ranges – 350 and 550 psig
- Inlet port – 5/8"-20 UNF(M)
- Outlet fitting – 1/4" Swagelok-brass
- Temperature operating range – 0-140°F

SR 600 FLOW DATA



Gas Service	Part No.	Model No.	Delivery Range (psig)
Inert Gas	0781-1601	SR 600-350-580	5-350
High Pressure Inert Gas	0781-1604	SR 600-350-680	5-350
High Pressure Air	0781-1605	SR 600-350-347	5-350
Oxygen	0781-1610	SR 600-550-540	5-550
Inert Gas	0781-1611	SR 600-550-580	5-550

### Manifold Regulators

#### Heavy Duty

- Wide range of flow capabilities
- Wide range of pressure delivery
- Single and two stage models available



Gas Service	Part No.	Model No.	Delivery Range (psig)
<b>HIGH PRESSURE DELIVERY, PISTON</b>			
	0781-1457	SR 4MF-996	50-750
Air,	0781-1437	SR 4MG-996	100-1500
Oxygen,	0781-1458	SR 4MJ-996	200-3000
Inert Gas,	0781-1436	SR 4MF-997	50-750
Hydrogen	0781-1438	SR 4MG-997	100-1500
	0781-1456	SR 4MJ-997	200-3000
<b>SINGLE STAGE</b>			
Air, Oxygen, Inert Gas	0781-0611	SR 450MD-996	5-125
	0781-0612	SR 450ME-996	10-200
Methane, Hydrogen	0781-0613	SR 452MD-997	5-125
CO <sub>2</sub>	0781-0615	SR 453MD-996	5-125
Acetylene	0781-0617	SR 460MA-997	2-15
L.P. Gas	0781-0618	SR 461MB-997	2-40
	0781-0619	SR 461MD-997	5-125
<b>EXTRA HIGH FLOW, SINGLE STAGE</b>			
Air, Oxygen, Inert Gas	0780-0797	SR 700MD-996	5-125
	0780-0798	SR 700ME-996	10-200
	0780-0809	SR 700MD-500	5-125
Methane, Hydrogen	0780-0803	SR 702ME-997	10-200
CO <sub>2</sub>	0780-0804	SR 703MD-996	5-125
	0780-0805	SR 703ME-996	10-200
Acetylene	0780-0806	SR 710MA-997	2-15
L.P. Gas	0780-0807	SR 711MB-997	2-40
<b>TWO STAGE</b>			
Methane, Hydrogen	0781-3961	VTS 452MD-997	5-125
	0781-3962	VTS 452ME-997	10-200
<b>TWO STAGE, HIGH FLOW</b>			
Air, Oxygen, Inert Gas	0780-0997	VTS 700MD-996	5-125
	0780-0998	VTS 700ME-996	10-200
	0780-1004	VTS 703MD-996	5-125
CO <sub>2</sub>	0780-1005	VTS 703ME-996	10-200
Acetylene	0780-1006	VTS 710MA-997	2-15
L.P. Gas	0780-1007	VTS 711MB-997	2-40
Inlet Connection: 1"-11.5 NPS(M)			
Outlet Connections: 1"-11.5 NPS(F)			

### HRF 2400

#### Medium Duty

##### DESIGN/CONSTRUCTION

- Regulator / flow meter 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)
- Machined brass body & housing cap
- Back pressure compensated
- Fabric reinforced neoprene diaphragm
- Internal self reseating relief valve – not designed to protect downstream equipment
- Sintered inlet filter – bronze
- Cover tube contains overpressure protection

##### DIMENSIONS

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

##### WEIGHT

2 lb 8 oz (1.13 kg)

##### PERFORMANCE

- Maximum inlet – 3000 psig
- Outlet pressure – preset
- HRF 2425 – 25 psig
- HRF 2480 – 80 psig

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



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

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

### DFM 150

#### Medium Duty

##### DESIGN/CONSTRUCTION

- 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
- Brass body
- Teflon seat mechanism
- Sintered inlet filter – bronze
- Music wire – spring
- Piston – brass
- Cover tube – lexan

##### DIMENSIONS

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

##### WEIGHT

2 lb 9 oz (1.16 kg)

##### PERFORMANCE

- Maximum inlet – 3000 psig DFM 150
- 75 psig DFM 150S
- Outlet pressure – 25 psig (preset) Flow Capacity (See below)
- Flow meter shows actual flow



Gas Service	Part No.	Model No.	Flow Range (SCFH)	CGA Inlet Connection	Max Inlet (psig)	HP Gauge	Replacement Flow Tube
Argon, Helium	0781-1153	DFM 150-580	5-50 (Argon), 20-150 (Helium)	580	3000	0-4000	1015-0057
Argon, Argon / Carbon Dioxide Mix, Helium Low Pressure	0781-1206	DFM 150S	5-50 (Argon) 5-40 (Argon/CO <sub>2</sub> ) 20-150 (Helium)	1/4" NPT (F)	75	0-100	1015-0057

Outlet Connection: 5/8"-18 RH(F), CGA 032  
Preset Pressure: 25 psig