

SINGLE AND TWO-STAGE GENERAL PURITY REGULATORS



SERIES SSD, SSE & TSD

The New **GENERAL PURITY** Regulators from Advanced are designed for use in general process and laboratory applications requiring accurate pressure or flow control at an economical price.

Advanced's **GENERAL PURITY** regulators are available in either single or two-stage configurations to provide a cost effective means to deliver gases for purging, blanketing, metal treating and other general purpose applications. The **GENERAL PURITY** regulators are also available with variable area flowmeters to enable flow control for a variety of flow ranges. The flowmeters provide direct reading for air. Flow ranges for other common pure gases can be approximated from the table on the back.

GENERAL PURITY regulator/flowmeter combinations provide the advantage of pressure and flow control to maximize process applications.

STANDARD FEATURES

- Neoprene Diaphragm permits accurate control of delivery pressures.
- Outlet Metering Valve provides flow control.
- One-Piece Cartridge (Encapsulated) Seat Assembly provides for ease of maintenance and repair.
- Filter in Seat Assembly traps foreign matter, extends regulator life and reduces maintenance.

SPECIFICATIONS

Maximum Inlet Pressure:

Model SSD & TSD: 3000 psig
Model SSE: 300 psig

Operating Temperature Range:

Regulators with Flowmeters: +32°F to +140°F
Regulators without Flowmeters: -40°F to +140°F

Flow Coefficient:

Model SSD & SSE: $C_V = 0.18$
Model TSD: $C_V = 0.15$

Delivery Pressure Ranges: 2–15 psig, 4–50 psig,
10–125 psig and 20–250 psig

Filters: 10 micron

Gauges: 2" dual scale (psi/bar)

Inlet Connection: CGA 296, 320, 326, 346, 350,
540, 580, 590, or 660 as ordered

Outlet Connection:

1/4" NPT male (on outlet valve)
1/8" NPT female (on flowmeter)

MATERIALS OF CONSTRUCTION

Body, Outlet Valve and Gauges: Brass

Bonnets: Painted Zinc

Filters: Nickel-Plated Sintered Bronze

Other Metal Parts Exposed to Gas:
Brass and Stainless Steel

Seat and Seals: Teflon® in Regulator

Diaphragms: Neoprene

Flowmeter: Series 50, Model FM4350



GENERAL PURITY

SINGLE AND TWO-STAGE REGULATORS WITH FLOWMETERS



Series 1SD
Regulator with Flowmeter

Model No.	.2	.4	.6	.8	1	2	3	4	5	10	20	30	40	50
SSD/SSE-600 TSD-750	■													
SSD/SSE-601 TSD-751	■	■												
SSD/SSE-602 TSD-752	■	■	■	■										
SSD/SSE-603 TSD-753	■	■	■	■	■									
SSD/SSE-604 TSD-754	■	■	■	■	■	■								
SSD/SSE-605 TSD-755	■	■	■	■	■	■	■							
SSD/SSE-606 TSD-756	■	■	■	■	■	■	■	■						
SSD/SSE-607 TSD-757	■	■	■	■	■	■	■	■	■					
SSD/SSE-608 TSD-758	■	■	■	■	■	■	■	■	■	■				
SSD/SSE-609 TSD-759	■	■	■	■	■	■	■	■	■	■	■			

AIR FLOW RANGES in Liters per Minute

APPROXIMATE FLOW RANGES FOR OTHER PURE GASES

Flow Rates shown are maximum flow rates at 70°F and 14.7 psia.
Minimum flow rates = 1/10 of maximum

Single-Stage Model No.	Two-Stage Model No.	Argon	Carbon Dioxide	Helium	Hydrogen	Nitrogen	Oxygen
SSD/SSE-600	TSD-750	43 ccm	61 ccm	47 ccm	105 ccm	51 ccm	45 ccm
SSD/SSE-601	TSD-751	71 ccm	104 ccm	79 ccm	178 ccm	86.7 ccm	93 ccm
SSD/SSE-602	TSD-752	375 ccm	355 ccm	513 ccm	1.1 Lpm	448.8 ccm	411 ccm
SSD/SSE-603	TSD-753	808 ccm	767 ccm	1.5 Lpm	2.8 Lpm	969 ccm	884 ccm
SSD/SSE-604	TSD-754	1.5 Lpm	1.6 Lpm	3.8 Lpm	6 Lpm	1.8 Lpm	1.7 Lpm
SSD/SSE-605	TSD-755	3.1 Lpm	18 Lpm	7.8 Lpm	12 Lpm	3.7 Lpm	3.4 Lpm
SSD/SSE-606	TSD-756	5.9 Lpm	95 Lpm	15.5 Lpm	23.8 Lpm	7.1 Lpm	8.2 Lpm
SSD/SSE-607	TSD-757	11.1 Lpm	91 Lpm	30.6 Lpm	45.9 Lpm	13.3 Lpm	15.5 Lpm
SSD/SSE-608	TSD-758	20.5 Lpm	13 Lpm	56.4 Lpm	84.5 Lpm	24.5 Lpm	28.7 Lpm
SSD/SSE-609	TSD-759	37.4 Lpm	36.3 Lpm	103.3 Lpm	155.0 Lpm	44.9 Lpm	52.4 Lpm



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