STAINLESS STEEL DIAPHRAGM

MODEL SHOWN: 450-125-540



DESCRIPTION

The Model 450 is an economically priced industrial duty regulator, but with premium features found only in high priced regulators. The 450 has a stainless steel diaphragm and a Harris exclusive tamper-proof self-seating safety relief device.

DETAILS

Capacity: Heavy duty

C_v: 0.17

Gauges: 2.5" brass **Pressure Regulation:** 0.3 PSIG/100 PSIG

Seat: One-piece encapsulated seat design with internal filter and PTFE

Teflon® seat

Certifications: UL® listed/CGA E-4

Weight: 4.6 lbs./2.09 kg.



Additional Technical Information: PG. 166

PART#	MODEL #	GAS	MAX. INLET PSIG	DELIVERY PRESSURE RANGE PSIG	DELIVERY PRESSURE GAUGE PSIG	SUPPLY PRESSURE GAUGE PSIG	INLET CONNECTION	OUTLET CONNECTION
3002493	450-15-300	ACETYLENE	500	0 - 15	30RZ	400	CGA 300	%6" - 18 LH
3002494	450-15-510	ACETYLENE	500	0 - 15	30RZ	400	CGA 510	%6" - 18 LH
3002495	450-50-510P	LPG*	500	0 - 50	100	400	CGA 510P	%6" - 18 LH
3002496	450-50-540	OXYGEN	3000	0 - 50	100	4000	CGA 540	%16" - 18 RH
3002497	450-125-540	OXYGEN	3000	0 - 125	200	4000	CGA 540	%6" - 18 RH
3002499	450-200-540	OXYGEN	3000	0 - 200	400	4000	CGA 540	%6" - 18 RH
3002498	450-125-580	AR, HE, N ₂	3000	0 - 125	200	4000	CGA 580	%" - 18 RH

^{*}Regulator designed specifically for propane service can be used with any of the other welding grade liquid petroleum gases. NOT FOR USE WITH ACETYLENE.

THE TRUE MEASURE OF A REGULATOR

Performance = Pressure Regulation

There is a reason they are called "pressure" regulators. Regulators take unusable high pressure, for example, from a cylinder and break it down into a lower usable pressure. This is the true function of a regulator. How well a regulator maintains the lower pressure, despite the changes in pressure upstream, is the true measure of a regulator. The more constant the set pressure is held, the better the regulator. The Harris Model 450 offers superior pressure regulation over competitive models.

Model Number	Pressure Rise PSI / 100PSI	Change In Delivery Pressure	Final Outlet Pressure	Percent Change
Harris Model 450	0.30	+ 7.65	37.65	25%
Competitive Model 1a	0.56	+ 14.28	44.28	47%
Competitive Model 1b	0.70	+ 17.85	47.85	60%

Orders: 1.800.241.0804

Pressure Comparison

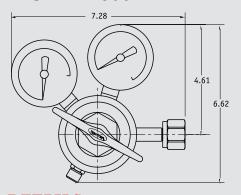
Both of the competitive models, delivery pressure rises twice as fast as the Harris Model 450. This is important because the Harris Model 450 user will get a better, more constant delivery pressure, as the cylinder empties. Additionally, the user won't have to adjust the regulator as much, meaning more time spent working.

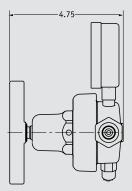
Calculations were performed per the Compressed Gas Association (CGA) E-4 standard. It is the most up-to-date and comprehensive regulator standard in the world today for the welding industry. It defines product safety and production test requirements and it defines performance characteristics required to meet field applications.

MODEL 2500 & 450

PERFORMANCE CHART ALL FLOWS BASED ON AIR @ 70°F

MODEL 2500





DETAILS

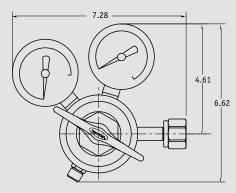
Regulator Weight: 4.6 lb /2.09 kg Pressure Rise: 0.3 PSIG per 100 PSIG

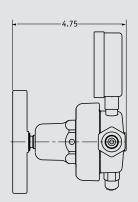
C_v: 0.17

150 (S) 120 **DELIVERY PRESSURE** 90 60 30 750 1000 2000 3000 4000 5000 FLOW (SCFH)

MODEL 2500 SINGLE-STAGE REGULATOR 2500-125 @ 2000 PSIG inlet 2500-125 @ 200 PSIG inlet 2500-50 @ 200 PSIG inlet 2500-15 @ 200 PSIG inlet

MODEL 450

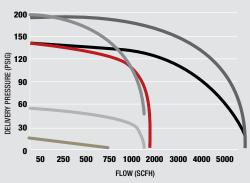


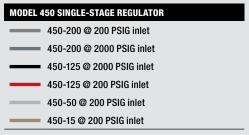


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