

Double Stage Regulators

DURA Series Regulators

Conform To : IS 6901-2009 & BSEN ISO 2503-1998

Salient Features

- First time in India a regulator suitable for 300 bar inlet pressure and imported safety pressure gauges designed for 400 bar pressure, confirming to ISO 5171 standards.
- Much more rugged.
- Longer life.
- Much bigger plenum chamber (2nd stage plenum chamber is 5 times the volume of 1st stage plenum chamber) ensures :
 - Outlet pressure stability.
 - Steady flow of gases.
- Fire-retardant valve material.
- Stainless Steel Diaphragm in 1st stage
 - can withstand stock of full cylinder pressure.
- Neoprene valve in 2nd stage
 - Gives flexibility and better pressure regulation.
- **Look For Seal of Safety**
- "ISI" certification.



Flowmeter Regulators have proven performance in MIG Welding and TIG Welding applications. Here the outlet gauge is replaced with flow calibrated gauge to show flow rate in lit/min. This eliminates additional glass flow meter, which prone to get damaged.



1. Safety valve
2. Plenum chamber
3. Captive P.A. knob- Can not be lost of change with unsuitable type.
4. Bonnet-Manufactured from high strength die cast alloy material.
5. Diaphragm neoprene rubber
6. Forged body
7. S.S. valve pin
8. Forged-cap spring
9. Non-bursting S.S. diaphragm
10. Valve made of fire retardant polymer
11. High strength bull nose nipple
12. Inlet filter prevents foreign matter



Double Stage Regulators

'B' Series Regulators

Conform To : IS 6901-2009 & BSEN ISO 2503-1998

Esab Multi Stage Regulators **IOX63B** & **IDA50B** continues the tradition of superior performance in the Double Stage range. The latest materials and advanced component design make these regulators suitable to meet the stringent demands of use in shop-floor as well as in outdoor conditions with enhanced safety. This regulators is provided with two pressure gauges one to indicate the Inlet Pressure and the other to indicate the Outlet Pressure. The working pressure can be adjusted by the Pressure Adjusting Knob.



Salient Features

- Steady flow of gas at the outlet irrespective of cylinder gas volume
- Pressure reduction from manifold or cylinder is achieved in two stages
- Much bigger plenum chamber ensures steady flow of gas
- Forged brass body & cap spring
- Fire retardant valve
- Safety valve
- Inlet filter



Specifications

Type of Gas	Code Letter	Model	Max. Inlet Pressure (Bar)	Max. Outlet Pressure (Bar)	Max. Flow		Inlet Connection	Outlet Connection	Main Application
					Lit/min	ft ³ /h			
Acetylene	"A"	DURA "A-1.5"	40	1.5	250	529.7	5/8" BSP L/H (Male)	3/8" BSP L/H (Male)	All Welding cutting & heating process
Oxygen	"O"	DURA "O-10"	300	10	1000	2119	5/8" BSP R/H (Male)	3/8" BSP R/H (Male)	Heavy cutting & heating process
Oxygen	"O"	DURA "O-2"	300	2	450	953.5	5/8" BSP R/H (Male)	3/8" BSP R/H (Male)	Medium cutting & heating process
Nitrogen	"N"	DURA "N-10"	300	10	1000	2119	5/8" BSP R/H (Male)	3/8" BSP R/H (Male)	Pressure, purging & refrigeration
Hydrogen	"H"	DURA "H-10"	300	10	1000	2119	5/8" BSP L/H (Male)	3/8" BSP L/H (Male)	Pressure, purging & refrigeration
Oxygen	"O"	IOX-63B	300	10	1000	2119	5/8" BSP R/H (Male)	3/8" BSP R/H (Male)	Heavy cutting & heating process
Acetylene	"A"	IDA-50B	40	1.5	250	529.7	5/8" BSP LH (Male)	3/8" BSP LH (Male)	All Welding, cutting & heating process

Gas Flow Regulator

Type of Gas	Code Letter	Model	Max. Inlet Pressure (Bar)	Flow		Inlet Connection	Outlet Connection	Main Application
				Lit/min	ft ³ /h			
CO ₂	"N"	DURA "CO ₂ -35L"	200	35	74	0.860x14 TPI R/H (Female)	3/8" BSP R/H (Male)	MIG
Argon	"N"	DURA "Ar2-25L"	300	25	53	5/8" BSP R/H (Male)	3/8" BSP R/H (Male)	MIG & TIG