

**WELDCUT**

# PRESSURE REGULATORS WITH FLOWMETER

A Product from an ISO 9001 : 2008 Certified Company

Regulators

As per IS : 6901 : 2009  
ISO : 2503 : 1998

## COMPRESSED GASES (9032.8100)



**31 SERIES SINGLE STAGE  
REGULATOR WITH FLOWMETER**



**41 SERIES TWO STAGE  
REGULATOR WITH FLOWMETER**

### TECHNICAL DATA

- INLET PRESSURE  
300 bar MAXIMUM
- DELIVERY PRESSURE  
ADJUSTABLE  
1 TO 25 bar
- FLUID MEDIA  
NON CORROSIVE  
GASES
- TEMPERATURE RANGE  
-40° C TO + 70° C
- BODY PORTS  
¼ " NPT FEMALE
- PRESSURE GAUGES  
50 MM/ 65 MM  
DIAMETER
- WETTED AREA PARTS  
ULTRASONICALLY  
CLEANED  
CORROSION  
RESISTANCE

### GAS SERVICE

- AIR
- ARGON
- HELIUM
- HYDROGEN
- NITROGEN
- OXYGEN
- ACETYLENE
- L.P. G.
- M. P. S.
- CARBON DIOXIDE

### MATERIAL OF CONSTRUCTION

- BODY / BONNET  
FORGED BRASS
- POPPET  
S.S.316 L
- SEAT  
PCTFE / NYLATRON
- SEAL  
GFT / NYLATRON
- DIAPHRAGM  
REINFORCED  
FABRIC SYNTHETIC  
RUBBER
- PRESSURE  
ADJUSTING  
KNOB PLASTIC
- P.A.STUD  
S.S. ROLL THREAD

### APPLICATION

- BRAZING
- CUTTING
- HEATING
- WELDING
- BEVERAGES
- BUBBLING CONTROL
- CALORIMETRY
- CHROMATOGRAPHY
- PROCESS CONTROL
- PURGING
- RESEARCH LAB

### CONVERSION COEFFICIENT

TEST GAS	AIR	OXYGEN	NITROGEN	ARGON	HYDROGEN	HELIUM	ACETYLENE	LPG, E.G. PROPANE	CO <sub>2</sub>
AIR	1	0.950	1.02	0.851	3.81	2.695	1.05	0.800	0.808
NITROGEN	0.983	0.930	1	0.837	3.75	2.65	1.03	0.784	0.792

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# PRESSURE REGULATORS NON CORROSIVE GASES

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**ISO : 2503 : 1998**

## COMPRESSED GASES (9032.8100)

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PRESSURE REGULATOR****41 SERIES TWO STAGE  
PRESSURE REGULATOR**AS PER IS 6901 : 2009 (SECOND REVISION) / ISO 2503 : 1998  
EQUIPMENT CLASSES

GAS SERVICE	RATED (MAX.) INLET PRESSURE	RATED (MAX.) OUTLET PRESSURE		STANDARD DISCHARGE
	$P_1$	$P_2$		$Q_1$
	bar ( $10^{-1}$ MPa )	bar ( $10^{-1}$ MPa ) / CLASS		$m^3/h$
OXYGEN AND OTHER COMPRESSED GASES UP TO 300 bar (30MPa)	300	2.0	0	1,5
		4.0	1	5
		6.0	2	15
		10.0	3	30
		12.5	4	40
		20.0	5	50
DISSOLVED ACETYLENE	25	0.8	1	1
		<1.5	2	5
MPS	25	1.5	0	1
		4.0	1	5
LPG	25	1.5	0	1
		4.0	1	5
CARBON DIOXIDE	200	2.0	0	2
		4.0	1	2

**The values of  $P_2$  and  $Q_1$  given in above table are preferred values , but other values are allowed.****SAP INDUSTRIES**e-mail : [siwi@vsnl.com](mailto:siwi@vsnl.com) [www.sapindustries.in](http://www.sapindustries.in)

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LOOK FOR  
HOLOGRAM