



DOMESTIC REGULATORS

Vanaz is the pioneer manufacturer of domestic pressure regulators in India. We have supplied more than 25 million regulators since 1963.

These regulators are mainly used for household purpose and are suitable for single burner / two burner gas stoves as well as grill cum cooking ranges having total consumption of 500 ltr / hr of LPG.


R - 0602 is Meter Regulator mainly developed for Natural gas distribution through pipeline. In addition to pressure control system, it is having built in low-pressure cut off valve, which ensures the working safety.

Type of Regulator	Inlet Pressure Range	Outlet Pressure Range	Gas Flow Rate	End Connection	Gas
 <p>R-0101</p>	0.5 - 17 Kg/cm ²	30 mbar (300 mm w.c.)	0.5 Nm ³ / hr	Inlet: Union Nut 21.8×14 TPI (LH) Outlet: Nozzel to suit 1/4" hose pipe	LPG
 <p>R-0302</p>	0.5 - 4 Kg/cm ²	30 mbar (300 mm w.c.)	0.5 Nm ³ / hr	1/2" BSPT (INT)	Natural Gas
 <p>R-0602</p>	35 - 100 mbar (350 - 1000 mm w.c.)	20 - 30 mbar (200 - 300 mm w.c.)	6 Nm ³ / hr	3/4" BSP (INT) or 3/4" BSPT (INT)	Natural Gas
 <p>R-1805</p>	0.5 - 17 Kg/cm ²	30 mbar (300 mm w.c.)	0.5 Nm ³ / hr	Inlet: To suit 22 mm dia S.C. valve Outlet: Nozzel to suit 1/4" I.D. hose pipe	LPG





ADAPTORS

Self closing valves as per IS:8737 are having outlet connections as a plain collar diameter, which needs a specific device to connect threaded fittings of regulator/pig tails to these valves. Adaptors are used for these purpose. The adaptors are to be fitted on the valve which makes leak proof coupling between valve outlet & adaptor inlet. By rotating the knob of the adaptor the Self Closing valve spindle gets pressed and flow through adaptor starts at unreduced pressure. Vanaz adaptors are having brass forged body for high pressure chamber. The outlet connection is an integral part of the brass forged body and so the life of adaptors is considerably more. Each adaptor is fitted with non return valve at the outlet side which restricts the reverse flow through the outlet of adaptor.

Type	Working Pressure Range	Inlet Connection	Outlet Connection	Gas
 R-1703 R-1711 R-1712	0.5 - 17 Kg/cm ²	To suit self closing valve of collar dia. as per IS: 8737 R-1703 Ø 25.6 mm R-1711 Ø 19.0 mm R-1712 Ø 22.0 mm	21.8 x 14 TPI (L.H) Ext.	LPG

FILTERS





Filter must be fitted prior to the regulators on the upstream side, to ensure that only clean / dust free gas is entering the regulator. The presence of dust / dirt in pipeline results in malfunctioning of the regulator because of damage caused to the regulator seat and rubber sealing pad. Also movement of the linkage is restricted due to the deposition of dust / dirt on the moving parts and affects performance of the regulator. Hence the use of filter is strongly recommended.

Type of Filter	Max. Working Pressure	Flow Capacity	Type & End Connection	Gas
 F-0101 F-0104 F-0105	20 bar	100 Nm ³ / hr	F - 0101 1" BSP (INT)	LPG / Natural Gas
		150 Nm ³ / hr	F - 0104 1.5" BSP (INT)	
		200 Nm ³ / hr	F - 0105 2" BSP (INT)	
 F-0107 F-0102 F-0108	20 bar	100 Nm ³ / hr	F - 0107 1" NB flanged end	LPG / Natural Gas
		150 Nm ³ / hr	F - 0102 1.5" NB flanged end	
		200 Nm ³ / hr	F - 0108 2" NB flanged end	

ADJUSTABLE PRESSURE REGULATORS (FOR LOW FLOWRATE REQUIREMENTS)

These regulators are having wider outlets pressure range. The outlet pressure can be easily adjusted by rotating the knob of spring adjusting screw. By rotating the knob anticlockwise the outlet pressure is reduced & by rotating it clockwise the outlet pressure is increased.

R - 2101 & R - 2111 are mainly used for gas cutting or welding purpose. These regulators have built in safety relief valve and flow control needle valve at the outlet. R - 2202 is mainly used as adjustable pressure regulator for LPG / Natural Gas in canteen, restaurants & for small furnaces. R - 2105 is suitable for high pressure application.





Type of Regulator	Inlet Pressure Range	Outlet Pressure Range	Gas Flow Rate	End Connection	Gas
 <p>R-2101</p>	1 - 161 Kg/cm ²	0.5 - 8 Kg/cm ²	25 Nm ³ / hr	Inlet: To suit outlet of std. cyl. valves as per IS: 3224 Outlet: Nozzel to suit 6 mm I.D hose pipe.	Oxygen, Hydrogen, Air, Nitrogen, Argon
 <p>R-2105</p>	10 - 161 Kg/cm ²	5 - 125 Kg/cm ²	25 Nm ³ / hr	Inlet: To suit outlet of std. cylinder valves as per IS: 3224 Outlet: 3/8" BSP (INT) or 1/4" BSP (INT)	Oxygen, Hydrogen, Air, Nitrogen, Argon
 <p>R-2111</p>	1 - 55 Kg/cm ²	0.2 - 2 Kg/cm ²	25 Nm ³ / hr	Inlet: 5/8" BSP Ext. (LH) with Bullnose Outlet: Nozzle to suit 6 mm I.D. hose pipe	Acetylene
 <p>R-2202</p>	0.5 - 17 Kg/cm ²	0.2 - 2 Kg/cm ²	20 Nm ³ / hr	Inlet: 21.8×14 TPI L.H. Union nut Outlet: 1/4" BSP (INT)	LPG

Note: Regulator R - 2204 is available with specifications similar to that of R - 2202 except inlet connections. The inlet connection for R - 2204 is similar to that of Adaptor R - 1703, so it can be directly mounted on LPG cylinder.

ADJUSTABLE PRESSURE REGULATOR FOR HIGH FLOWRATES.



These regulators are having wider outlet pressure range. The outlet pressure can be easily adjusted by rotating the knob of spring adjusting screw. By rotating the knob anticlockwise the outlet pressure is reduced & by rotating it clockwise the outlet pressure is increased.

These regulators are mainly used as first stage pressure regulator in the LPG / Natural gas pressure reducing system.

Type of Regulator	Inlet Pressure Range	Outlet Pressure Range	Gas Flow Rate	End Connection	Gas
 R-2301	1 - 17 Kg/cm ²	0.5 - 10 Kg/cm ²	100 Nm ³ / hr	1" BSP (INT)	LPG, Natural Gas
 R-2304	1-17 Kg/cm ²	0.5 - 10 Kg/cm ²	250 Nm ³ / hr	1.5"/2" BSP (INT)	LPG, Natural Gas
 R-2316 R-2317	1 - 17 Kg/cm ²	0.5 - 10 Kg/cm ²	250 Nm ³ / hr	For R-2316 40 mm NB flanged end. For R-2317 50 mm NB flanged end.	LPG, Natural Gas
 R-6412	1 - 17 Kg/cm ²	0.5 - 10 Kg/cm ²	600 Nm ³ / hr	3" BSP (INT) or flanged end as per requirement.	LPG, Natural Gas



ADJUSTABLE REGULATORS FOR HIGH PRESSURE & HIGH FLOWRATES.

Regulators R - 2307 & R 2310 are mainly used in "Soft Drink Industries" for CO₂ gas pressure reducing system. They are also used in steel industries for high pressure oxygen lancing purpose and for pressure reducing systems for high pressure Gas manifolds.

Type of Regulator	Inlet Pressure Range	Outlet Pressure Range	Gas Flow Rate	End Connection	Gas
 R-2307	200 Kg/cm ²	0.5 - 30 Kg/cm ²	150 Nm ³ / hr	1" BSP (INT)	Oxygen, Natural Gas, Nitrogen, Hydrogen, Carbondioxide
 R-2310	200 Kg/cm ²	0.5 - 50 Kg/cm ²	300 Nm ³ / hr	Inlet: 1.5" BSP (EXT) Outlet: 1.5" BSP (EXT)	Oxygen, Natural Gas, Nitrogen, Hydrogen, Carbondioxide

SERVICE REGULATORS

These regulators are used in pressure reducing system for Natural gas. They are used to reduce the natural gas pressure from 4 Kg/cm² to 75 mbar before supplying it to the domestic feeder line. These regulators are having built in slam shut off valve and creep relief valve (safety relief valve). These regulators are available in two models R-4405 & R-4403 depending upon flow requirements.

Type of Regulator	Inlet Pressure Range	Outlet Pressure Range	Gas Flow Rate	End Connection	Gas
 R-4405	0.5 - 4 Kg/cm ²	200 - 750 mmwc	30 Nm ³ / hr	Inlet: 1/2" BSP (INT) Outlet: 3/4" BSP (INT)	Natural Gas, LPG
 R-4403	0.5 - 4 Kg/cm ²	200 - 750 mmwc	60 Nm ³ / hr	3/4" BSP(INT) or 1" BSP (INT)	Natural Gas, LPG

PRESET PRESSURE REGULATORS

These regulators are having preset outlet pressure. However the outlet pressure can be slightly adjusted by rotating the spring adjusting screw.

The Industrial Pressure Regulator R - 4109 is available with 4 different types of preset outlet pressures. These are suitable for canteen, restaurants & small industrial furnaces.

R - 4110 / R - 4301 are a low pressure medium flow pressure regulators, mainly used for industrial furnaces & other gas appliances. R - 4202 regulator is mainly suitable for Natural Gas.

Type of Regulator	Inlet Pressure Range	Outlet Pressure Range	Max Flow Rate	End Connection	Gas
	1 - 17 Kg/cm ²	(a) 0.03 Kg/cm ²	8 Nm ³ / hr	Inlet: 21.8×14 TPI (L.H) Union Nut Outlet: 1/2" BSP (INT)	LPG
		(b) 0.3 Kg/cm ²	28 Nm ³ / hr		
		(c) 0.7 Kg/cm ²	28 Nm ³ / hr		
		(d) 1 Kg/cm ²	28 Nm ³ / hr		
	1 - 17 Kg/cm ²	0.03 - 0.3 Kg/cm ²	40 Nm ³ / hr	Inlet: 1/2" BSP (INT) Outlet: 3/4 BSP (INT)	LPG, Natural Gas
	1 - 17 Kg/cm ²	0.03 - 0.3 Kg/cm ²	40 Nm ³ / hr	1" BSP (INT)	LPG, Natural Gas
	1 - 17 Kg/cm ²	0.03 Kg/cm ²	10 Nm ³ / hr	1/2" BSP (INT) or 1/2" BSPT (INT)	Natural Gas
		0.5 Kg/cm ²	30 Nm ³ / hr		




PRE-SET PRESSURE REGULATORS (FIXED INLET PRESSURE)

These regulators are low pressure high flow precision control pressure regulators and are mainly used as second stage pressure regulators. These are also used in medium to bigger size furnaces. These regulators control the outlet pressure very precisely.

Type of Regulator	Max Inlet Pressure	Outlet Pressure Range	Gas Flow Rate	End Connection	Gas
 R-6111	1.5 Kg/cm ²	0.03 - 0.15 Kg/cm ² (30 -150mbar)	60 Nm ³ / hr	1.5" - 2" BSP (INT) or flanged end as per ANSI / BS Std.	LPG / Natural Gas
 R-6106	1.5 Kg/cm ²	0.01 - 0.1 Kg/cm ² (10 - 100 mbar)	120 Nm ³ / hr	1.5" - 2" BSP (INT) or flanged end as per ANSI / BS Std.	LPG, Natural Gas
 R-6107	1.5 Kg/cm ²	0.01 - 0.05 Kg/cm ² (10 - 50 mbar)	150 Nm ³ / hr	1.5" - 2" BSP (INT) or flanged end as per ANSI / BS Std.	LPG, Natural Gas
 R-6410	1.5 Kg/cm ²	0.03 - 0.1 Kg/cm ² (30 - 100 mbar)	600 Nm ³ / hr	3" BSP (INT) or flanged end as per ANSI / BS Std.	LPG, Natural Gas



PRE-SET PRESSURE REGULATORS (VARIABLE INLET PRESSURE)

These regulators are low pressure high flow pressure regulators. These are mainly used where the inlet pressure is varying in a wider range. These regulators are suitable for medium size to bigger size furnaces.

Type of Regulator	Inlet Pressure Range	Outlet Pressure Range	Gas Flow Rate	End Connection	Gas
 <p>R-5102</p>	1 - 5 Kg/cm ²	0.03 - 0.15 Kg/cm ² (30-150mbar)	60 Nm ³ / hr	1.5" - 2" BSP or flanged end as per ANSI or BS Std.	LPG, Natural Gas
 <p>R-5103</p>	1 - 5 Kg/cm ²	0.02 - 0.1 Kg/cm ² (20 - 100 mbar)	120 Nm ³ / hr	1.5" BSP (INT) or 2" BSP (INT) flanged end as per ANSI / BS Std.	LPG, Natural Gas
 <p>R-5104</p>	1 - 5 Kg/cm ²	0.01 - 0.05 Kg/cm ² (10 - 50 mbar)	150 Nm ³ / hr	1.5" BSP (INT) or 2" BSP (INT) or flanged end as per ANSI / BS Std.	LPG, Natural Gas
 <p>R-5105</p>	1 - 5 Kg/cm ²	0.03 - 0.1 Kg/cm ² (30 - 100 mbar)	600 Nm ³ / hr	3" BSP (INT) or flanged end as per ANSI / BS Std.	LPG, Natural Gas

ZERO GOVERNORS

Zero Governors are used to supply gases at atmospheric pressure to the mixing chambers. These are mainly used for the furnaces in glass industry. They are very sensitive and precisely maintain the required outlet pressure.

Type of Governor	Max Inlet Pressure	Outlet Pressure	Gas Flow Rate	End Connection	Gas
 R-6204	0.5 Kg/cm ²	+ 25mmwc (+2.5mbar)	30 Nm ³ / hr	1.5" - 2" BSP (INT)	LPG/ Natural Gas
 R-6205	0.5 Kg/cm ²	+ 50mmwc (+5mbar)	150 Nm ³ / hr	3" NB flanged as per ANSI / 150 rating	LPG/ Natural Gas

GAS METERS




Domestic Gas Meter is a diaphragm operated positive displacement type, Gas meter, It is suitable mainly for Natural Gas and LPG. There are two different models M-0104 & M-0107. The meter M-0107 is having steel casing and it meets the fire resistance requirements as per BS:4161 part 5, 1990.

Type of Gas Meter	Working Pressure Range	Flow Capacity	End Connection	Gas
 M-0104	20-50 mbar	Qmax-2.5 Nm ³ / hr Qmin- 0.016 Nm ³ / hr	3/4" BSP (EXT)	LPG/ Natural Gas
 M-0107	20-50 mbar	Qmax-2.5 Nm ³ / hr Qmin- 0.016 Nm ³ / hr	3/4" BSP (EXT)	LPG/ Natural Gas

SPECIAL PURPOSE PRESSURE REGULATORS.

The regulators R-2402, R-4108 are mainly used for ammonia gas. The trim parts for these regulators are of stainless steel. R-4108 is preset type regulator & is mainly used as second stage pressure regulator. R-2402 is adjustable pressure regulator & is mainly used as first stage pressure regulator.

R-2703 is a fine control adjustable pressure regulator which is used when precision pressure control is required for instrumentation purpose like Air-Gauges. We also manufacture regulators suitable for corrosive gases like Cl_2 , SO_2 etc.

Type of Regulator	Max Inlet Pressure	Outlet Pressure Range	Gas Flow Rate	End Connection	Gas
	22 Kg/cm ²	0.5-4 Kg / cm ²	25 Nm ³ / hr	1/2" BSP (Union Nut)	Ammonia
	1-5 Kg/cm ²	(a) 30 - 150 mbar (b) 0.15 - 0.3 mbar (c) 0.3 - 0.7 mbar (d) 0.7 -1 mbar	10 Nm ³ / hr 30 Nm ³ / hr 30 Nm ³ / hr 30 Nm ³ / hr	Inlet: 1/2" BSP (INT) Union Nut Outlet: 1/2" BSP (INT)	Ammonia
	2 - 10 Kg/cm ²	1.75 + 0.05 Kg / cm ²	1Nm ³ / hr	1/8"NPT (INT)	Nitrogen & Air

WE CAN SUPPLY THE PRESSURE REGULATORS FOR ANY GASES SUITABLE FOR FOLLOWING SPECIFICATIONS

- Inlet Pressure : 17 Kg / cm² max. for LPG
200 Kg / cm² max. for CNG & Industrial Gases like O₂, H₂, CO₂, N₂ etc.
- Outlet Pressure : From few mm WC of vacuum to 50 Kg / cm²
- Flowrate : 2500 Nm³ / hr (max.)
- Pipeline Size : 6mm N.B. (1/4" N.B.) to 150 mm N.B. (6" N.B.)