

TECHNICAL HANDBOOK & CATALOG 2024





Group Companies

PUNE GAS PROJECTS PVT. LTD.

(Formerly Pune Gas Parts & Services Pvt. Ltd.)

PUNE GAS SYSTEMS PVT. LTD.

MAHARASHTRA MULTI DISTRIBUTORS LTD.

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Success is a journey, not a destination.



Established 1986



Largest Range Of Gas Products



Turnkey Gas Projects for Industries

Pune Gas provides turnkey solutions, including design, erection, testing and maintenance of systems and networks for applications requiring LPG / PNG / CNG / R-LNG as a fuel.



LPG Storage Facilities

Gas Pipeline Networks

Gas Application Areas



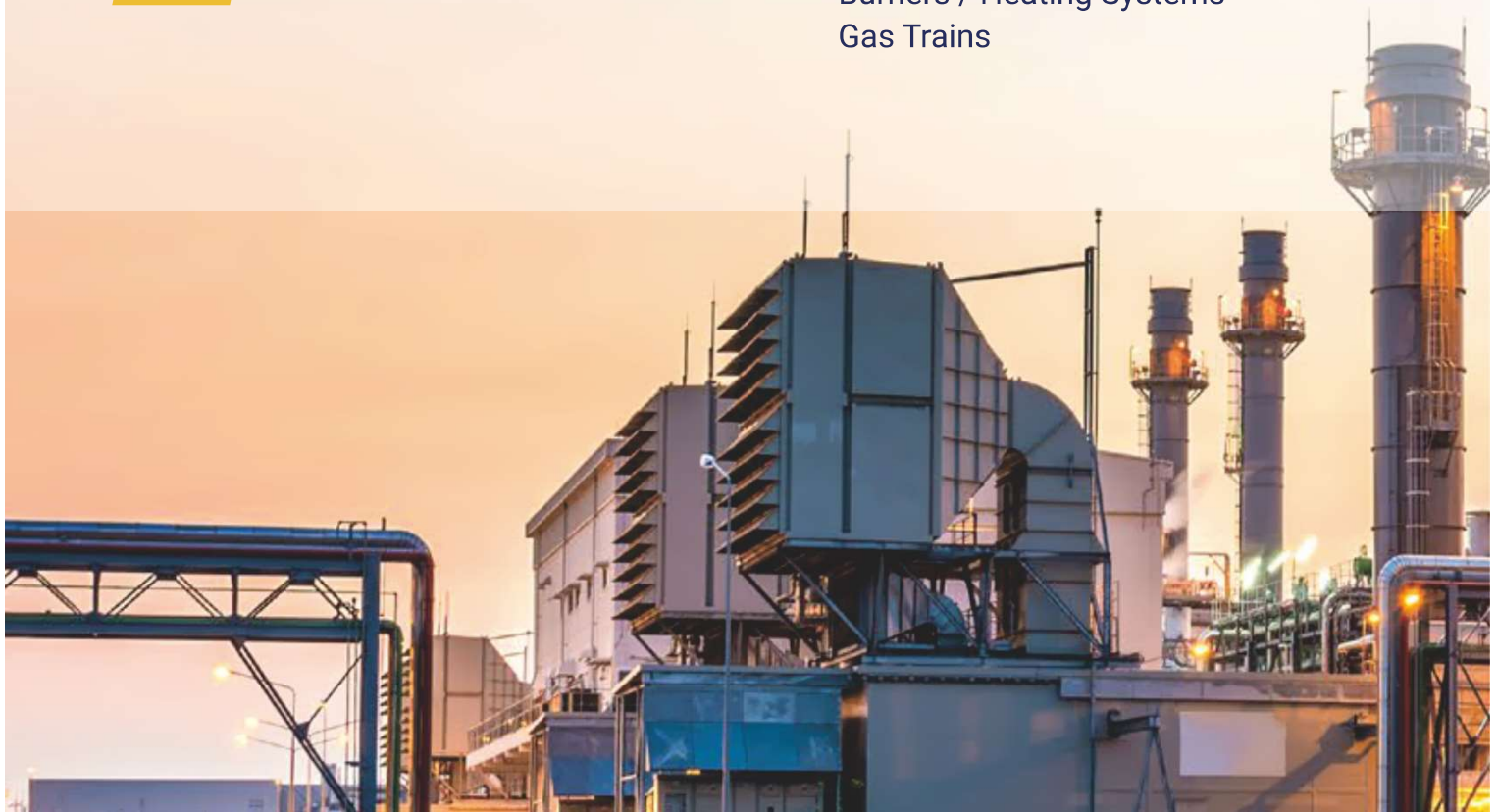
Multi-cylinder LPG Banks
LPG Bulk Storage Facilities
Safety Systems for LPG Storage



Piping Distribution Systems
IoT based Gas Flow Monitoring
Pressure Regulating Systems



Fuel Conversions
Burners / Heating Systems
Gas Trains



LPG Storage Solutions

- i. LPG Gas Banks
- ii. LPG Vaporizers
- iii. Gas Leak Detection Systems
- iv. Testing & Certification

Gas Pipeline Solutions

- i. Technical Design of Pipeline Network
- ii. Pipeline Installation
- iii. Flow Measurement
- iv. Pressure Regulation

Gas Application Solutions

- i. Combustion System
- ii. Gas Train for Pressure Regulation

Fuel Conversion to LPG / Natural Gas

Retrofit conversion from Oil to Gas

Gas Products

Burners & Fittings for LPG / NG / other Gases

Training, Consulting, Service & Maintenance

- i. Consulting for green-field projects to design Gas Systems & Networks.
- ii. Annual Maintenance Contracts & Strong After-Sales Service Network.
- iii. Testing & Certification of Gas Storage facilities and pipelines.
- iv. Training for safety aspects of LPG/PNG for intermediaries & end users.

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Technical Data

LIQUIFIED PETROLEUM GAS (LPG)

The term LPG applies to a mixture of light hydrocarbons derived from petroleum which are gaseous at ambient temperature and atmospheric pressure, however can be condensed to liquid state at ambient temperature by application of moderate pressure. LPG available in India is normally a mixture of commercial butane and propane, with composition as per the following.

COMPOSITION (% volume)

Propane	27.5%
ISO butane	14.7%
N. Butane	55.7%
CS	2.0%
Liquid Density @ 15°C	0.562
Vapour Pressure @ 100°C	83 kg/cm ²

TECHNICAL DATA

Calorific Value	: Kcal / Kg (Btu / Lb)
	Kcal / Litre of Vapour (Btu / Cft of Vapour)
Specific Gravity	: Liquid (Water = 1)
	Vapour (Air = 1)
Specific Volume	: Litres of Vapour / Kg of Liquid

CALORIFIC VALUES OF VARIOUS SOLID & LIQUID FUELS

	Kcal/kg
Wood (dry)	2000 - 4000
Lignite	4900
Coal	3000 - 3800
Coke	4600
Diesel	10300
Light Fuel Oil	9500
Heavy Fuel Oil	10000
Petrol	11400
Kerosene	10550

LPG

Kcal/kg	11400
Kcal/ft ³	806
Kcal/litre	308
Kcal/m ³	30600
Max. Temp. In Air	2000°C
Max Temp. In Oxygen	2800°C
Ignition Temperature	481°C

CONVERSION FACTORS FOR DIFFERENT UNITS

Heat Unit	: 1 Kcal	= 3,97 B.T.U. (British Thermal Unit)
Pressure	: 1 kg/cm ²	= 14.22 Pounds / Sq. Inch
	1 Atmosphere	= 760 mm of Mercury
		= 29.92 Inches of Mercury
	300 mm Water	= 30 gm/cm ²
	Column	= 11.81 Inches Water Column
		= 0.43 pound/Sq. Inch

ABBREVIATIONS

The following abbreviations are used in this catalog.

Cu	- Copper or Compression fitting
B.S.P.T.M.	- British Standard Pipe Taper Male
B.S.P.T.F.	- British Standard Pipe Taper Female
B.S.P.P.M.	- British Standard Pipe Parallel Male
B.S.P.P.F.	- British Standard Pipe Parallel Female
M.E.C.V.	- Male European Cylinder Valve (Left hand)
F.E.C.V.	- Female European Cylinder Valve (Left hand)

TECHNICAL INFORMATION ABOUT CONNECTIONS

The valves in the LPG installations play a vital part in the system since the material is handled under high pressure conditions. Decades ago, the oil companies used a hand wheel operated valve on their cylinders. The valve used to have left male threads at the outlet where the regulator used to be connected. When LPG came to be drawn under high pressure, a flexible high pressure connection with a suitable coupling arrangement used to be screwed on to the outlet. This developed into a standard connection and came to be termed as 'Male Cylinder Valve' (MCV) connection.

With the advancement in technology, the MCV valves with left hand threads were replaced by the Self Closing (SC) 'Click on type' valve. Yet several installations continue to use the left hand threaded connection where high pressure LPG is involved. The threads in these valves conform to the British Standard Pipe (B.S.P.) threads. These are of two types:

1) Taper threads used for direct pressure tight joints on lines.

2) Parallel threads or fastening threads (B.S.P.F) generally used for fastening. There are also the compression type threads where flexible connections are to be provided.

LEFT HAND PARALLEL THREAD

Specifications for the LPG burners, fittings, accessories and all allied equipment are given in the imperial system equivalence, where possible in the metric system.

PHYSICAL PROPERTIES OF LPG

BOILING POINT AND VAPOUR PRESSURE

Normal Boiling points of pure propane and butane are :-

PROPANE	n-Butane	Isobutane
-42°C	-0.5°C	-12°C

From the user's point of view, a high vapour pressure is an advantage and therefore LPG should contain as much propane

as possible IS : 4576 specifies the maximum permissible vapour pressure of LPG at 65°C is 16.87 kg/cm² (17.6 bar absolute). Assuming that butane, is entirely n-butane, the upper Limit of propane in LPG is 60% by weight. Usually, LPG contains 30% to 50% propane and the balance is largely butane with small quantities of ethane, ethylene, pentane and pentene.

VAPORISATION

In one of the most common methods of storage and handling, LPG is held under pressure at near ambient temperature. At 30°C, this pressure would be in the region of 4.7 to 6.4 bar gauge depending upon compositions. If there is a leak, the escaping liquid would be exposed to atmospheric pressure and maximum temperature which the liquid can have at this pressure is its normal boiling point, e.g. -42°C in the case of propane and -0.5 °C in the case of butane. Therefore, the escaping liquid will undergo a large drop in temperature. If propane at 30°C leaks to atmosphere, the temperature of the liquid will drop to -42°C.

Heat available from within the liquid as a result of this cooling is used up in instantaneously vaporising a part of the liquid. This phenomenon of instantaneous vaporisation of a part of the liquid is known as flashing of the liquid. When pressurised LPG is released to atmosphere, the proportion of liquid, which vaporises due to flashing amounts to 20% to 40% depending upon the composition of the liquid.

The vapour generated due to flashing and the remaining liquid will be at the normal boiling point

temperature of the liquid. This low temperature will cause cooling of the ambient temperature and condensation of moisture in the air. The resultant walling around leakage source indicates that a leakage is taking place.

In a second method of storing LPG, Refrigerated Storage, less common though, the pressure in the storage tank is practically atmospheric. Under refrigeration, at a temperature at which the vapour pressure of the liquid is nearly equal to the atmospheric pressure. Any leakage in this case does not cause any flash vaporisation because the liquid is already at its normal boiling point. If the spillage occurs on the ground, the liquid will spread under gravity and vaporisation will occur by supply of heat from the ground. If the spillage occurs on water, water underneath the LPG layer will freeze and the latent heat of freezing of the water will supply the heat requirement for LPG vaporisation.

Thus contrary to flashing, vaporisation in the case of a refrigerated liquid spillage will occur at a rate determined by the rate of heat supply to spill from the underlying ground or water.

DENSITY

Liquid LPG is immiscible with water and its density is 535 kg/m³ at 30°C. Therefore, any water present in a pressurised LPG tank at room temperature settles as a bottom layer. This water can be drained by opening the outlet at the bottom of the tank provided the valve is

closed before the interface reaches the valve. The density of LPG vapour is 1.7 times that of air. Therefore, any LPG vapour released to atmosphere will form a heavy cloud at ground level. This is an important property to be borne in mind in modeling the dispersion of LPG vapour.

MELTING OR FREEZING POINT

LPG can exist as a liquid over a wide range of temperatures. The lowest temperature in the range at which liquid assumes the solid state is known as the

melting point. It is such a low temperature that it is not encountered in normal operations / handling and, therefore does not have any practical significance.

BOILING POINT

A) The temperature at which the vapour pressure of a liquid becomes equal to the external pressure is its boiling point. This temperature differs for the same liquid under different pressures. The normal boiling point is the temperature at which the vapour pressure reaches 760 mm of Mercury or one atmosphere.

B) The boiling point of LPG presently marketed is very nearly 0°C. At temperatures near 0°C or at sub-zero temperatures, the pressure inside the container will be almost the same as atmospheric pressure 1 bar.

Therefore, this product cannot be used at places where the ambient temperature is near or sub-zero.

SENSIBLE PROPERTIES

Colour (Sight) : Like air LP gases are colourless, therefore, they cannot be seen. However, when liquid LPG is released from a container or a pipe it vapourises almost immediately. This produces a cooling of the surrounding air and may cause water vapour in the air to condense, freeze and become visible. In this way, LPG leak may be detected even though the gas itself is invisible.

Odour (Smell) : LPG is distinctively odourised to give warning in case of leakage. LPG is generally odourised by adding mercaptans. Its smell is detectable in air at concentrations down to 1/5th of the lower limit of flammability. In other words, it can be smelt sufficiently before it becomes dangerous enough to catch fire.

Ignition Temperature : For the combustion process or burning of LPG to occur it is necessary that an ignition source is applied. The flammable mixture of LPG vapour and air will not ignite or explode unless the ignition source is present. The source may be a spark, flame or heated material possessing sufficient heat to equal or exceed the inquired ignition temperature, which is in the range of 410°C to 580°C.

Calorific Value : It is defined as the amount of heat produced by complete combustion of unit mass of the fuel. It is expressed in kcal/kg. The calorific value of LPG is very high and uniform which makes it an ideal fuel.

LP GAS AN EXCEPTIONAL ENERGY

For many years, LP Gas has played a valuable role in meeting the world's energy needs. In the future, LP Gas has the opportunity to enhance this role because of its obvious benefits as an efficient and cleaner fuel as well as its immediate contributions to delivering real greenhouse gas emissions reductions.

Global awareness about rising energy costs, the reliability of energy supplies, health and climate change are encouraging nations to make choices and LP Gas can be the solution in many applications and regions of the world. LP Gas is therefore a healthy fuel option

compared to some traditional fuels used in both the developing world, where negative health consequences caused by indoor air pollution is a grave problem, and in the developed world in congested, built-up cities. The World LP Gas Association (WLPGA) demonstrates these clear benefits of LP Gas, a cleaner and modern energy through its activities and interaction with its stakeholders every day.

LP Gas unique properties allow it to be used everywhere.

LP GAS AN EXCEPTIONAL ENERGY

PORTABLE

LP Gas can be transported, stored, and used virtually

anywhere in the world. It does not require a fixed network and will not deteriorate over time.

CLEAN

LP Gas is very clean burning and has lower greenhouse gas emissions than any other fossil fuel when measured

on a total fuel cycle. Originating mainly from natural gas production, it is also non - toxic and will not contaminate soil or aquifers in the event of a leak.

ACCESSIBLE

LP Gas can be accessible to everyone everywhere today without major infrastructure investment. Nothing

needs to be invented and there are enough reserves to last many decades.

EFFICIENT

LP Gas is cost-effective, since a high proportion of its energy content is converted into heat. LP Gas can be up

to five times more efficient than traditional fuels, resulting in less energy wastage and better use of our planet's resources.

CONVENIENT

LP Gas is a multi-purpose energy. There are more than a thousand applications, from cooking, heating, air

conditioning and transportation, to cigarette lighters and even the Olympic torch.

BETTER CONTROL

PG is easy to control with instant on and off activation at the twist of a knob, thus offering better control over cooking.

In addition, adjustment of intensity / size in the form of visible blue flame is easy to regulate the required rate of heating, making it possible to cook at desired temperature.

FASTER HEATING

LPG can heat faster than any other fuels because of its high calorific value.

LOW ENVIRONMENT TEMPERATURE

LPG burners emit less circulating heat than any other fuel, thus keeping your surrounding environment

temperature low than any other fuel.

ENVIRONMENT FRIENDLY

LPG creates the least greenhouse gas emission of all the available fossil fuels.

It contains very less amount of other particulate matters that are harmful to the environment.

Heating with LPG can help reduce the greenhouse emission by up to 70%

LPGASAFUEL

LP Gas is a derivative of two large energy industries: natural gas processing and crude oil refining.

When natural gas is drawn from the earth, it is a mixture of several gases and liquids. Methane, which is sold by gas utilities as "natural gas" constitutes about 90 percent of this mixture. Of the remaining 10 percent, 5 percent is propane and 5 percent is other gases such as butane and ethane. Before natural gas can be transported or used, the LP Gases (which are slightly heavier than methane, the major component of natural gas) are separated out. Depending on the "wetness" of a producing gas field, gas liquids generally contain 1% - 3% of the unprocessed gas stream. Some LP Gases are also trapped in crude oil. In order to stabilise the crude oil for pipeline or tanker distribution, these "associated" or "natural gases" are further processed into LP Gas. Worldwide, gas processing is a source of approximately 60% of LP Gas produced.

In crude oil refining the LP Gases are the first products produced on the way to making the heavier fuels such as diesel, jet fuel, fuel oil, and gasoline. Roughly 3% of a typical barrel of crude oil is refined into LP Gas although as much as 40% of a barrel could be converted into LP Gas. Worldwide, crude oil refining is the source for the other roughly 40% of LP Gas supplies although the ratio between gas processing and refining varies among regions.

LP Gas production from these sources is a natural derivative. That means production of LP Gas is assured since the primary motive for gas processors and refiners is to produce fuels other than LP Gas but first the LP Gases are produced. Although tied to the production of natural gas and crude oil, LP Gas has its own distinct marketing advantages and can perform nearly every fuel function of the primary fuels from which it is derived. LP Gas plays a valuable role in meeting the world's energy needs. In the future LP Gas has the opportunity to enhance this role by also helping to combat climate change.

The clean burning nature of LP Gas makes it an ideal

substitute for solid fuels in domestic cooking and heating applications. Household solid fuel use, overwhelmingly concentrated in developing countries, accounts for up to 30% of black carbon emissions worldwide according to some statistics. Switching to LP Gas could lower global greenhouse gas emissions as well as help to diminish deforestation thus preserving the trees needed to maintain a global climatic equilibrium and combat climate change.

LP Gas used in combination with renewable sources can improve energy reliability while reducing the overall life-cycle costs. LP Gas is portable, making it a perfect complement to distributed renewable energy sources such as solar, wind and wave energy (and soon fuel cells), thereby reducing our reliance on centrally produced electricity.

LP Gas produces lower greenhouse gas emissions compared to conventional energy supplies in every application it is used, from stationary applications such as water heating, space heating, cooking and industrial boilers to transportation applications. Any industry can switch to clean-burning LP Gas as a means to meet greenhouse gas targets.

LP Gas can claim to be ahead of its time, for its clean-burning, low- carbon advantage is available at once, so that even using today's technology, most industries can exceed Kyoto greenhouse gas reduction targets by switching to LP Gas. In most cases LP Gas can make major and immediate contributions to delivering real greenhouse gases emissions reductions.

WEIGHT AND VOLUME EQUIVALENT TABLES FOR INDUSTRIAL GASES

CARBON DIOXIDE	Lb.	Ton	kg	Cubic ft.	Cubic Meter	Gallon	Litre	Cubic ft. Solid
1 pound	1.0	0.0005	0.4536	8.741	0.2294	0.11806	0.4469	0.010246
1 ton	2000.0	1.0	907.2	17483	458.8	236.1	893.9	20.49
1 kilogram	2.205	0.0011023	1.0	19.253	0.5058	0.2603	0.9860	0.226
1 scf gas	0.1144	Not Available	0.05189	1.0	0.02628	0.013508	0.05113	0.0011723
1 nm ³ of gas	4.359	0.00218	1.9772	38.04	1.0	0.5146	1.948	0.04468
1 gallon liquid	8.470	0.004235	3.842	74.04	1.9431	1.0	3.785	0.08678
1 litre liquid	2.238	0.0011185	1.0151	19.562	0.5134	0.2642	1.0	0.02293
1 cu.ft solid	97.56	0.0488	44.25	852.8	22.38	11.518	43.60	1.0

Note : Scf (Standard Cubic Feet) of gas measured at one atmosphere and 70°F. Nm³ (Normal Cubic Metre) of gas measured at one atmosphere and zero degrees centigrade. Liquid is measured at 21.42 atmosphere and 1.7°F. Solid measured at -109.25°F. All values rounded of to nearest significant numbers.

OXYGEN							HELIUM						
Weight		Volume of Liquid		†	Volume of Gas*		Weight		Volume of Liquid		†	Volume of Gas*	
Pound	Kilo grams	Cu. Ft.	Litres	Imp. Gallons	Cu. Ft.	Cubic Metres	Pounds	Kilo grams	Cu. Ft.	Litres	Imp. Gallons	Cu. Ft.	Cubic Metres
1.0000	0.4540	0.01400	0.397	0.08743	11.850	0.3356	1.0000	0.4540	0.12810	3.625	0.79730	94.870	2.6870
2.2050	1.0000	0.03090	0.873	0.19230	26.060	0.7380	2.2050	1.0000	0.28300	8.015	1.77200	192.100	5.4400
71.1400	32.3000	1.00000	28.320	6.23200	842.900	23.8700	7.7910	3.5320	1.00000	28.320	6.23200	739.200	20.9300
2.5120	1.1400	0.03530	1.000	0.22010	29.770	0.8431	0.2751	0.1251	0.03530	1.000	0.22010	26.100	0.7392
11.4200	5.1850	0.16050	4.544	1.00000	135.300	3.8320	1.2510	0.5680	0.16050	4.544	1.00000	118.700	3.3690
8.4400	3.8320	0.11860	3.359	0.73900	100.000	2.8320	1.0540	0.4746	0.13430	3.802	0.83700	100.000	2.8320
2.9800	1.3520	0.04188	1.186	0.26090	35.310	1.0000	0.3722	0.1693	0.04790	1.359	0.29910	35.310	1.0000

NITROGEN							ARGON						
Weight		Volume of Liquid		†	Volume of Gas*		Weight		Volume of Liquid		†	Volume of Gas*	
Pound	Kilo grams	Cu. Ft.	Litres	Imp. Gallons	Cu. Ft.	Cubic Metres	Pounds	Kilo grams	Cu. Ft.	Litres	Imp. Gallons	Cu. Ft.	Cubic Metres
1.0000	0.4540	0.01980	0.561	0.12320	13.540	0.3834	1.0000	0.4540	0.01140	0.324	0.06890	9.491	0.2686
2.2050	1.0000	0.04370	1.238	0.27230	29.850	0.8454	2.2050	1.0000	0.02520	0.713	0.15180	20.900	0.5924
50.4500	22.9100	1.00000	28.320	6.23200	683.000	19.3400	87.0900	39.5400	1.00000	28.320	6.23200	826.500	23.4600
1.7820	0.8090	0.03530	1.000	0.22010	24.120	0.6825	3.0760	1.3970	0.03530	1.000	0.22010	29.190	0.8267
8.0990	3.6770	0.16050	4.544	1.00000	109.700	3.0940	13.9800	6.3470	0.16050	4.544	1.00000	132.700	3.7580
7.3900	3.3540	0.14660	4.143	0.91120	100.000	2.8320	10.5400	4.7460	0.12060	3.413	0.75200	100.000	2.8320
2.6080	1.1830	0.05181	1.467	0.32170	35.310	1.0000	3.7220	1.6900	0.04240	1.242	0.27360	35.310	1.0000

AIR							HYDROGEN						
Weight		Volume of Liquid		†	Volume of Gas*		Weight		Volume of Liquid		†	Volume of Gas*	
Pound	Kilo grams	Cu. Ft.	Litres	Imp. Gallons	Cu. Ft.	Cubic Metres	Pounds	Kilo grams	Cu. Ft.	Litres	Imp. Gallons	Cu. Ft.	Cubic Metres
1.0000	0.4540	0.01830	0.518	0.11400	13.100	0.3718	1.0000	0.4540	0.22610	6.400	1.40900	188.400	5.3410
2.2050	1.0000	0.04040	1.144	0.25180	28.880	0.8178	2.2050	1.0000	0.49820	14.107	3.10900	416.200	11.7800
54.5600	24.2100	1.00000	28.320	6.23200	714.600	20.2400	4.4320	2.0430	1.00000	28.320	6.23200	834.500	23.6100
1.9270	0.8749	0.03530	1.000	0.22010	25.240	0.7115	0.1565	0.0711	0.03530	1.000	0.22010	29.480	0.8350
8.7600	3.9770	0.16050	4.544	1.00000	114.700	3.2480	0.7116	0.3230	0.16050	4.544	1.00000	134.000	3.7920
7.6300	3.4640	0.13960	3.952	0.86980	100.000	2.8320	0.5308	0.2411	0.13850	3.921	0.86300	100.000	2.8320
2.6940	1.2230	0.04931	1.396	0.30690	35.310	1.0000	0.1874	0.0852	0.04240	1.201	0.26440	35.310	1.0000

† Liquid volumes are calculated for normal boiling point at atmospheric pressure.

* Gas volumes are calculated for standard conditions of 60°F and pressure of 14.7 psi.

CONVERSION OF PRESSURE UNITS

	PSI	Kg/cm ²	Atmosphere	Bar	mm WC	Pascal	Pieze
PSI	1	0.07031	0.06804	0.069	703.1	6896	6.895
Kg/cm ₂	14.223	1	0.9678	0.981	10000	98087	98.08
Atmosphere	14.69	1.033	1	1.0133	10330	101325	101.32
Bar	14.5	1.019	0.986	1	10200	100000	100
mm WC	14.223x10 ₄	1.0 x 10 ₄	96.78x10 ₆	9.81 x 10 ₅	1	9.808	98.40x10 ₄
Pascal	145 x 10 ₆	10.19x10 ₆	9.869x10 ₆	10 ₅	0.1019	1	0.001
Pieze	0.145	0.01019	0.00986	0.01	102	1000	1

TYPICAL COMPOSITIONS OF FUEL

Percentage Combustion

FUELS	C	H ₂	S	N	O ₂	H ₂ O	ASH	NCV KCAL/KG
Wood	45.60	3.96	0.07	0.45	37.45	9.33	3.14	4400
Lignite	52.21	3.3	0.88	0.46	17.06	18.39	7.17	4900
Coal-4000	44.03	3.10	0.32	0.82	4.77	3.84	43.13	3800
Coal-4500	48.92	3.79	0.51	1.00	5.36	6.04	34.38	4250
Coal-5500	59.38	3.15	0.38	1.04	4.86	6.00	25.19	5300
Husk	36.14	3.70	0.08	0.46	29.34	8.92	19.40	3100
Bagasse	40.94	4.58	0.04	0.23	36.65	10.53	7.03	3550
F.O.	84.00	11.00	3.50	-	-	1.00	0.50	9500
L.D.O	85.50	11.50	3.00	-	-	-	-	9500
L.S.H.S.	86.70	11.80	1.00	-	-	0.50	-	10300
L.P.G. 1 #	81.50	17.00	-	-	-	1.50	-	11400
N. GAS \$	66.00	23.00	-	-	-	1.50	-	8500

NOTE:

- The above compositions can vary widely depending on the mine, location, source etc.
 - Solid fuels in air dried condition.
- # L.P.G. is assumed to be composed of (by volume) 10-40% of Propane and 70-60% of Butane. Density - 2.32 KG/NM³.
- \$ Natural Gas is assumed to be composed of (by volume) 76% of Methane, 10% of Ethane, 2% of Propane, 6% of CO₂ and 4% of N₂. Density - 0.83kg/NM³.

PROPERTIES OF WATER BETWEEN 0 °C AND 220 °C

Temp °C	Steam Pressure Absolute kg/cm ²	Specific Weight kg/m ³ x 10 ³	Specific Volume m ³ /kgx10 ⁻³
000	0.006228	0.9998	1.0002
010	0.012513	0.9996	1.0004
020	0.023830	0.9982	1.0018
030	0.043250	0.9956	1.0044
040	0.075200	0.9922	1.0079
050	0.125780	0.9880	1.0121
060	0.203100	0.9832	1.0171
070	0.317700	0.9777	1.0226
080	0.482900	0.9718	1.0290
090	0.714900	0.9653	1.0359
100	1.033200	0.9583	1.0435
110	1.460900	0.9510	1.0515
120	2.024500	0.9431	1.0603
130	2.754400	0.9348	1.0697
140	3.685000	0.9261	1.0798
150	4.854000	0.9169	1.0906
160	6.302000	0.9074	1.1021
170	8.076000	0.8973	1.1144
180	10.225000	0.8869	1.1275
190	12.800000	0.8760	1.1415
200	15.857000	0.8647	1.1565
210	19.456000	0.8528	1.1726
220	23.659000	0.8403	1.1900

GAS PRESSURE VS. TEMPERATURE

Temperature°C	Propane Kg/cm ²	Butane Kg/cm ²	LPG
16	6.25	1.5	4
25	6.75	2	5
32	8.5	3	6
40	10	3.5	7
47	11	4	9
55	13	5.5	11
65	17	8	15

PRESSURE OF GAS AT DIFFERENT TEMPERATURE

	ARGON	HELIUM	HYDROGEN	NITROGEN	OXYGEN
MOL. VOL, LITER/MOL	0.15961	0.18471	0.18445	0.16917	0.15819
CONTENTS, CU. M.	6.91	6.16	5.99	6.53	6.98
TEMPERATURE °C	Pressure Kg/cm2	Pressure Kg/cm2	Pressure Kg/cm2	Pressure Kg/cm2	Pressure Kg/cm2
0	132	136	136	133	132
2	133	137	137	134	133
4	134	138	138	135	134
6	136	139	139	137	136
8	137	140	140	138	137
10	139	141	141	139	138
12	140	142	142	140	140
14	141	143	143	142	141
15	142	144	144	142	142
16	143	144	144	143	143
18	144	145	145	144	144
20	145	146	146	146	145
22	147	147	147	147	147
24	148	148	148	148	148
25	149	149	149	149	149
28	151	151	151	151	151
30	152	152	152	152	152
32	153	153	153	153	153
34	155	154	154	155	155
36	156	155	155	156	156
38	157	156	156	157	158
40	159	157	157	158	159
42	160	158	158	160	160
44	161	159	159	161	162
46	163	160	160	162	163
48	164	161	161	163	164
50	165	162	162	165	166
52	167	163	163	166	167
54	168	164	164	167	168
56	170	165	165	169	170
58	171	166	166	170	171
60	172	167	167	171	172
62	174	168	168	172	174
64	175	169	169	174	175
66	176	170	170	175	176

PRESSURE DROP DUE TO VALVES AND BENDS % WISE

Pipe Dia (NB) Medium	Gate Valve	Angle Valve	Globe Valve	Std.T	Bend 90°	Bend 45°
10	0.099	2.79	5.33	1.116	0.434	0.230
15	0.122	3.30	6.44	1.369	0.483	0.277
25	0.204	5.04	9.81	2.180	0.763	0.436
40	0.314	7.53	14.65	2.930	1.130	0.628
65	0.515	12.36	24.03	4.806	1.716	1.030
80	0.605	14.52	28.23	5.646	2.016	1.200
100	0.788	18.91	36.77	7.354	2.626	1.576
125	0.975	23.39	45.48	9.097	3.249	1.950
150	1.167	27.99	54.43	10.885	3.888	2.333

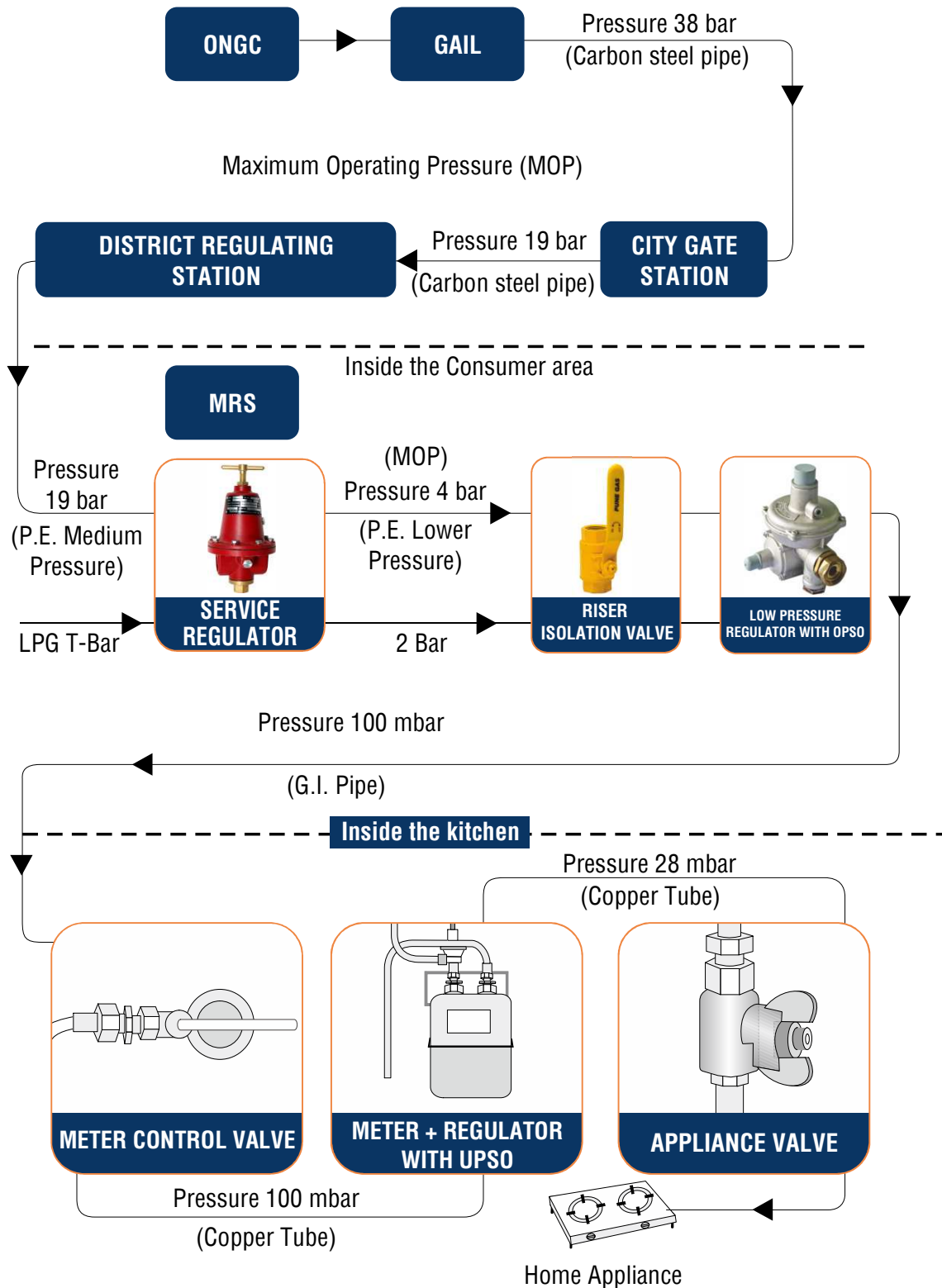
COMMON UNITS OF HEAT

1 BTU	=	0.252 kcal	1 kcal	=	3.968 BTU
1 BTU	=	107.7 kgm	1 kgm	=	0.00930 BTU
1 BTU/sec.	=	1.055 kW	1 kW	=	0.948 BTU/sec
1 BTU/lb	=	0.5556 kcal/kg	1 kcal/kg	=	1.80 BTU/lb
1 BTU/cu. ft	=	8.900 kcal/m ³	1 kcal/m ³	=	0.112 BTU/cu.ft
1 BTU/sq. ft h	=	2.71 kcal/m ² h	1 kcal/m ² h	=	0.369 BTU/sq.ft.h.
1 BTU/sq. ft h°F	=	4.886 kcal/m ² h°C	1 kcal/m ² h°C	=	0.205 BTU/sq.ft.h°F
1 BTU/ft h°F	=	1.49 kcal/m h°C	1 kcal/m h °C	=	0.67 BTU/ft h°C
1 BTU in/sq. ft. h°F	=	0.124 kcal/m h°C	1 kcalm/h°C m ²	=	8.07 BTU in/sq ft g°F
1 BTU/lb°F	=	1.001 kcal/kg°C	1 kcal/kg°C	=	0.999 BTU/lb°F
1 BTU cu. ft°F	=	16.2 kcal/m ³ °C	1 kcal/m ³ °C	=	0.06424 BTU/cu ft°F

Gas Transmission & Distribution System

All pressures indicated are Maximum

Operating Pressure (MOP)



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VOT Manifold Fittings



PRODUCT	LPG VOT Manifolds
PRODUCT CODE	1171 to 1177
SPECIFICATIONS	Suitable for any number of SC type cylinders to be used at a time.
	Center distance between the consecutive lugs is
	300 mm (12") or 425 mm (17"), 2 x 2, 3 x 3, 4 x 4, 5 x 5, 6 x 6, 7 x 7, 8 x 8 etc.
	As depicted here to withstand a maximum working pressure of 17 bar.
	Made in MS Seamless schedule 40 pipes, if required can be made in SS.
BRANDS AVAILABLE	PUNEGAS



PRODUCT	High Pressure Adapters
PRODUCT CODE	1186 / 1187 / 1188
SPECIFICATIONS	These die-cast multi-piont adaptors enable the connections of the cylinders fitted with self-closing valves to a high pressure system through a standard M.E.C.V thread with unreduced pressure and a high flow rate. The adopters are fitted with a non return valve. The quick disconnecting arrangement coupled with a safety interlock ensures that the device can only be disconnected after turning off the gas flow. All adopters featured here are available in 22 mm and 25.6 mm inlet seats and 3/8" or MECV outlet size.
BRANDS AVAILABLE	VEL / KOSAN / UE / SG



PRODUCT	Flexible Cylinder Pigtails
PRODUCT CODE	1220 to 1225
SPECIFICATIONS	Available in size length of 2ft, 3ft and 5ft. or as per customer's requirement.
	Used in cylinder connection to get more flexible between steady manifold and cylinder. This pigtail is specially used in Railway Pantry Car, Mobile Canteen Van etc. Also available with one side 3/8" BSPF and other side FECV.
	These pigtails are available in SS Braiding, Suraksha, SAE 100R1, Gazflex Hose.
	All these pigtails are available with brass end fittings with brass crimping or MS fitting with MS hydraulic crimping. Pressure : 10 bar / 25 bar.
BRANDS AVAILABLE	PUNEGAS / UE SHURAKSHA



PRODUCT	Non Return Valve
PRODUCT CODE	1182
SPECIFICATIONS	Non return valve for VOT manifold 3 piece & 1 piece body Made in Brass
	Forging Size MECV x FECV
BRANDS AVAILABLE	UE / VEL / PUNEGAS / SG

ADJUSTABLE COMMERCIAL REGULATOR

R-2202 is mainly used as adjustable pressure regulator for LPG / Natural Gas in canteen restaurants & for small furnaces / ovens.



PRODUCT	Adjustable Commercial Regulator
PRODUCT CODE	VANAZ R-2202/2202 I
SPECIFICATIONS	Inlet Pressure : Range 0.5 - 17 Bar Outlet Pressure Range : 0.2 - 2 Bar
	Gas Flow Rate : 20 kg/hr. End Connection Inlet : 21.8 x 14 TPI L.H. Union nut
	Outlet: 1/2" BSPF Gas : LPG, Natural, Carbon Dioxide, Nitrogen, Argon & Air
	Available in Brass R 2202
	Also available in 1/2" BSPF and union nut on request
BRANDS AVAILABLE	VANAZ



PRODUCT	Union Pin Set With Nut
PRODUCT CODE	1184 / 1185
SPECIFICATIONS	Union Pin Set with nut - available for ½" or 1" pipe size
BRANDS AVAILABLE	UE



PRODUCT	F Valve
PRODUCT CODE	1260
SPECIFICATIONS	Main Cylinder Valve Brass Forged Body
	Used on cylinder manifold to control
	(shut off or open one one side of cylinder bank)
	Inlet - ¾" NPT and outlet - MECV
BRANDS AVAILABLE	UE



PRODUCT	Quick Release Coupling
PRODUCT CODE	1320 / 1320A / 1321 / 1321B
SPECIFICATIONS	Available in various intel / outlet to suit costumers requirement
	made in MS chrome plated or SS body in all sizes.
BRANDS AVAILABLE	ORION



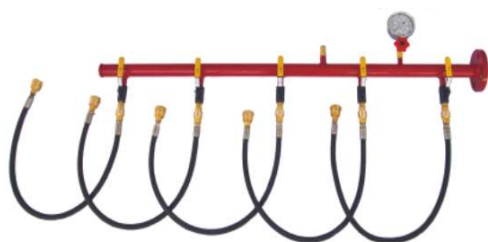
PRODUCT	Flap Type NRV
PRODUCT CODE	1429 / 1431 / 1432 / 1433 / 1434
SPECIFICATIONS	Available in sizes ½", ¾", 1", 1 ½", 2" threaded models.
	Made in Brass Forged body and SS 304 Body
BRANDS AVAILABLE	BOSS / VALSTOP FT



PRODUCT	Dead Nut for LPG Manifold / Manifold Lug
PRODUCT CODE	1183
SPECIFICATIONS	Maniolf LUG / MECV MS Adopter
	and also available
	Brass Forged FECV dead nut
BRANDS AVAILABLE	UE

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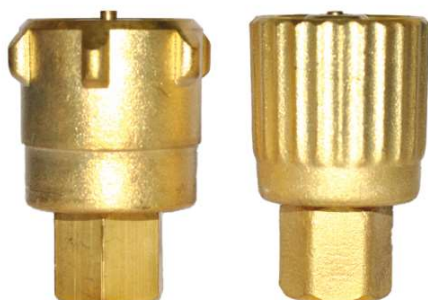
LOT Manifold Fittings



PRODUCT	LPG LOT Manifolds
PRODUCT CODE	1178 / 1179
SPECIFICATIONS	Suitable for LOT type cylinders to be used at a time.
	Center distance between the consecutive lugs is
	300 mm (12") or 425 mm (17"), 5 x 5, 10 x 10, 15 x 15, 20 x 20.
	As depicted here to withstand a maximum working pressure of 27 bar.
	Made in MS Seamless schedule 80 pipes, if required can be made in SS.
BRANDS AVAILABLE	PUNEGAS



PRODUCT	LOT #300 Valve
PRODUCT CODE	1322 / 1323 / 1324
SPECIFICATIONS	Available in sizes 1", 1½" and 2" Flanged end #300 class
	Made in one piece CS forged WCB body
	Gas Safe Design
BRANDS AVAILABLE	VEL / PUNEGAS / UE



PRODUCT	Adaptor for LOT
PRODUCT CODE	1242 / 1242A / 1242U
SPECIFICATIONS	Available in size - inlet female 1 ¼" acme nut, LOT valve outlet female 3/8"
	suitable for 19, 33, 47.5 kg LPG LOT cylinders.
	Made in forged brass body
	Ribbed or knurling body.
BRANDS AVAILABLE	VEL / PUNEGAS / UE



PRODUCT	Adaptor for LOT
PRODUCT CODE	1242SG H / 1242SG R
SPECIFICATIONS	Available in Size - Inlet Female 1¼" Acme Nut, LOT Valve Outlet Female ¾"
	Suitable for 19, 33, 47.5 KG LPG LOT Cylinders
	Works with 2 Thread & 3 Thread LOT Cylinder Valve
	1242SG H : Hex Type Chrome Plated Forged Brass Body
	1242SG R : Ribbed Type Forged Brass Body
BRANDS AVAILABLE	SG



PRODUCT	Pop Action Safety Relief Valve
PRODUCT CODE	1243 / 1243B / 1244
SPECIFICATIONS	Available in sizes ¼", ⅜", ½", ¾" mounting.
	Pressure relief rating available in various capacities as per
	customers requirements.
	Made in forged brass body.
	Also known as Thermal Relief Valve.
BRANDS AVAILABLE	PUNEGAS / UE



PRODUCT	Non Return Valve for LOT
PRODUCT CODE	1247 / 1247A / 1247U / 1248 / 1247SG H
SPECIFICATIONS	Non return valve for LOT manifold made in 2 piece body in brass forging.
	Available in sizes 1/2", 3/4", 1" BSPM x BSPM or BSPM x BSPF
	Made in forged brass body with SS spring, nylon NRV.
	Also Available in HEX Type
BRANDS AVAILABLE	PUNEGAS / VEL / UE / VALSTOP / SG



PRODUCT	LOT Hoses
PRODUCT CODE	1240 / 1241
SPECIFICATIONS	Made as per customers requirements and specifications in
	R1, R2, R6 pressure rating of 160 bar with suitable end fittings
	in sizes 3/8", 1/2", 3/4" and 1" and various lengths.
	Working pressure 160 bar.
BRANDS AVAILABLE	BRILON / DUNLOP / SUPERHOZE / GASGUARD



PRODUCT	LOT Manifold Valve
PRODUCT CODE	1270 / 1271 / 1503
SPECIFICATIONS	Available in sizes 1/2", 3/4" BSPF
	Made in 2 piece SS / CS WCB forged body in Screwed end
	Working pressure 27 or 17 bar.
BRANDS AVAILABLE	VEL / PUNEGAS / UE / SG



PRODUCT	Y Strainer # 300
PRODUCT CODE	1249 / 1249A / 1249B / 1249C / 1249D
SPECIFICATIONS	Available in sizes 1/2", 3/4", 1" threaded or 1", 1 1/2", 2" flanged
	ANSI # 300 models.
	Made in CS forged WCB body for flanged models and SS forged body
	for threaded models. Flame proof design.
	Working pressure 17 bar.
BRANDS AVAILABLE	VEL / PUNEGAS



PRODUCT	Dirt Trap for Liquid / Vapour LPG	
PRODUCT CODE	1430	1430 A
SPECIFICATIONS	#300 Class / #150 Class	#300 Class / #150 Class
SIZE	50NB / 40NB / 25NB	50NB / 40NB / 25NB
DIMENSION	300 x 450 mm	180 x 300 mm
	Maximum working pressure 17 bar for # 150 and 27 bar for #300	
	Includes ball valve for drain.	
BRANDS AVAILABLE	PUNEGAS	

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425 kg Manifold Fittings



PRODUCT	LPG LOT 450 kg Manifolds
PRODUCT CODE	1179B
SPECIFICATIONS	Suitable for LOT type two 450 kg cylinders being used at a time.
	Center distance between the consecutive lugs is 1 metre
	As depicted here to withstand a maximum working pressure of 27 bar.
	Made in MS Seamless schedule 80 pipes, if required can be made in SS.
BRANDS AVAILABLE	PUNEGAS



PRODUCT	Actuator Valve
PRODUCT CODE	1500
SPECIFICATIONS	Actuator Valve for Bullfinch Cylinder Valve Outlet made as per ISO standards
	having 3/4" end connection in Brass Body
BRANDS AVAILABLE	UNITREAD UE



PRODUCT	Quick Release Coupling
PRODUCT CODE	1501
SPECIFICATIONS	Male part of Liquid quick release adaptor in S.S body 3/4" BSPF
BRANDS AVAILABLE	UNITREAD UE / VEL



PRODUCT	Quick Release Coupling
PRODUCT CODE	1501A
SPECIFICATIONS	Female part of Liquid quick release adaptor in S.S body 3/4" BSPF
	Also available in brass body
BRANDS AVAILABLE	UNITREAD UE / VEL



PRODUCT	Non Return Valve For LOT 450 kg
PRODUCT CODE	1515
SPECIFICATIONS	Non return valve for LOT manifold in 2 piece body in brass forging.
	Available in size 3/4" BSPF x 3/4" BSPF
	Made in forged brass body with SS spring, nylon NRV.
BRANDS AVAILABLE	VALSTOP / VEL



PRODUCT	Flexible Cylinder Pigtails for 450 kg Cylinder
PRODUCT CODE	1504
SPECIFICATIONS	2 mtr long liquid handling hose 3/4" & 1/2" end connection
	Pressure rating - 160 bar
	Please specify length and end fitting size.
BRANDS AVAILABLE	SUPERHOZE / BRILON



PRODUCT	Manifold Isolation Ball Valve
PRODUCT CODE	1503
SPECIFICATIONS	LOT isolation ball valve 3/4" & 1/2" BSPF end connection CF8 SS body
	Please note set of 2 valves required for installation
BRANDS AVAILABLE	PUNEGAS / VEL / UE



PRODUCT	Pole Nut Connector & Dead Nut
PRODUCT CODE	1507
SPECIFICATIONS	Dead nut for vapour outlet in 1/2" BSP MS CP Body
	POL nut coupler 0.885" POL connection for vapour outlet in brass body
BRANDS AVAILABLE	VEL



PRODUCT	Filling Gun for 450 kg Cylinder
PRODUCT CODE	SPL
SPECIFICATIONS	2 meter hose connected to ball valve and filling nozzle in forged brass body
	Inlet 1/2" or 3/4" as required
BRANDS AVAILABLE	UE



PRODUCT	Filling Gun for 47.5 kg Cylinder
PRODUCT CODE	SPL
SPECIFICATIONS	2 meter hose connected to ball valve and filling nozzle in forged brass body
	Inlet 1/2" or 3/4" as required
BRANDS AVAILABLE	UE

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LPG Vaporizers & Smart LPG Systems

GERMAN Engineering. Made in **INDIA**.

Dry Type Electric Waterless LPG Vaporizer



Uses absolutely **NO WATER** for vaporizing Liquid LPG to Gas



Highly efficient, designed for **ZERO MAINTENANCE**



Model - FAS2000 Capacity 50 kg/hr.

Single Phase power connection
with very low overall power
consumption
230 V / 50 Hz, 4.4 kW

Inlet & Outlet Size ½" BSP



Model - FAS2000 Capacity 100 kg/hr.

Three Phase power connection
with very low overall power
consumption
440 V / 50 Hz, 18 kW

Inlet & Outlet Size 1" BSP



Model - FAS2000 Capacity 170 kg/hr.

Three Phase power connection
with very low overall power
consumption
440 V / 50 Hz, 24 kW

Inlet & Outlet Size 1" BSP



LPGenius™

Smart LPG System

Vaporization Capacity 15 kg/hr.

LPGeniusTM



MAXIMIZE YOUR SPACE

Fits in 5' x1.5' space making it ideal for small kitchens.



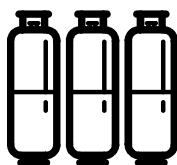
RAPID SETUP TIME

Plug-n-play operation, quick & easy installation in less than 60 mins.



ZERO RESIDUE

Eliminates LPG residue in cylinders, saving you money, say goodbye to waste.



CYLINDER HANDLING

No need to handle multiple cylinders, putting them in hot water to draw the LPG from the cylinders, enjoy hassle free cylinder management.



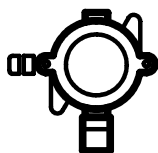
EFFICIENCY

Leave it on or off, power & LPG will only be used when your burners are on, forget about changing cylinders when in operation.



SAFETY

All-in-one LPG pressure regulator with built-in Filter, High-Pressure cut-off and Over-Pressure relief valve for highest safety.



BUILT-IN GAS DETECTION

Your safety is our top priority. LPGenius Plus comes with built-in gas leak detection, providing peace of mind.



LOW-LEVEL GAS ALARM

We go the extra mile with a low-level gas alarm to raise safety with LPGenius Pro. Know exactly when your cylinders are getting empty.



CYLINDER TROLLEY

Handle LPG cylinders with ease. A cylinder trolley to move LPG cylinders effortlessly, comes complimentary with LPGenius Pro.

LPGenius™

Best suited for

LPGenius™ 5



QSRs



Outdoor
Caterers



Bakeries



LPGenius™ 10



Cloud
Kitchens



Large Format
Restaurants



Industrial
Canteens



LPGenius™ 25



Food
Courts



Sweets & Namkeen
Establishments



LPGenius™ 50



Star Hotels
& Resorts



Food
Manufacturing



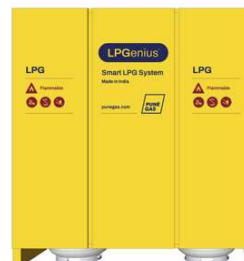
LPGenius™

Models

LPGenius™ 5

Connection for 1+1 Liquid Off Take (LOT) cylinders.
One cylinder online + One cylinder stand-by.

Size: L 5'6"
D 1.5"
H 5.5'



LPGenius™ 10

Connection for 2+2 Liquid Off Take (LOT) cylinders.
Two cylinders online + Two cylinders stand-by.

Size: L 8'9"
D 1.5"
H 5.5'



LPGenius is available in 3 options to suit different requirements.

Features

Safety Relief Valve for Liquid LPG.

All-in-one LPG Pressure Regulator with built-in filter, High-Pressure cut-off & Over-Pressure release.

World's smallest LPG Vaporizer of 15 kg/hr capacity

High & Low Pressure Gauges for LPG Pressure Indication.

Floor Standing Enclosure with IP 54 rating and high temperature grade surface coating.

AV alarm for LPG leakage using leak detection sensor.

AV alarm for LPG cylinder level indicating when cylinders get empty.

LOT Cylinder Handling Trolley.

BASIC



PLUS



PRO



*** Suitable for 33/35/47.5 kg LOT Cylinders**

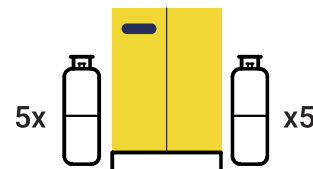
LPGenius™

Models

LPGenius™ 25

Connection for 5+5 Liquid Off Take (LOT) cylinders.
Five cylinders online + Five cylinders stand-by.

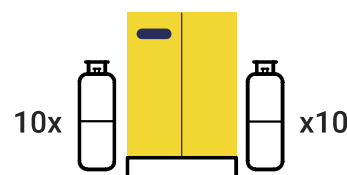
Size: L 14' 8'
D 1.5' 8'
H 5.5' 5.5'



LPGenius™ 50

Connection for 10+10 Liquid Off Take (LOT) cylinders.
Ten cylinders online + Ten cylinders stand-by.

Size: L 24' 8'
D 1.5' 12'
H 5.5' 5.5'



LPGenius is available in 3 options to suit different requirements.

Features

Safety Relief Valve for Liquid LPG.

All-in-one LPG Pressure Regulator with built-in filter, High-Pressure cut-off & Over-Pressure release.

LPG Vaporizer of 50 kg/hr capacity

High & Low Pressure Gauges for LPG Pressure Indication.

Floor Standing Enclosure with IP 54 rating and high temperature grade surface coating.

AV alarm for LPG leakage using leak detection sensor.

AV alarm for LPG cylinder level indicating when cylinders get empty.

LOT Cylinder Handling Trolley.

BASIC



PLUS



PRO



*** Suitable for 33/35/47.5 kg LOT Cylinders**

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Pressure Regulators

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.



PRODUCT	Adjustable Pressure Regulator	
PRODUCT CODE	R-2301	
SPECIFICATIONS	Inlet Pressure Range	1 - 17 Bar
	Outlet Pressure Range	(a) 0.5 - 2 Bar
		(b) 0.5 - 4 Bar
		(c) 0.5 - 10 Bar
	Gas Flow Rate	100 Nm ³ /hr.
	End Connection	1" BSPF
	Gas	LPG, Natural Gas, Nitrogen
	(Aluminium Body Aluminium Bonnet)	
	Option of outlet pressure gauge available at extra cost	
BRANDS AVAILABLE	VANAZ	



PRODUCT	Adjustable Pressure Regulator	
PRODUCT CODE	R-2301 <i>II</i>	
SPECIFICATIONS	Inlet Pressure Range	15 - 120 Bar
	Outlet Pressure Range	1 - 10 Bar
	Gas Flow Rate	100 Nm ³ /hr.
	End Connection	1" BSPF
	Gas	Oxygen, Hydrogen and Nitrogen
	(Brass Body Aluminium Bonnet)	
BRANDS AVAILABLE	VANAZ	



PRODUCT	Adjustable Pressure Regulator	
PRODUCT CODE	R-2301 <i>III</i>	
SPECIFICATIONS	Inlet Pressure Maximum	15 - 120 Bar
	Outlet Pressure Range	1 - 10 Bar
	Gas Flow Rate	100 Nm ³ /hr.
	End Connection	1" BSPF
	Gas	Carbon Dioxide, Argon
	(Brass Body CS Bonnet)	
BRANDS AVAILABLE	VANAZ	



PRODUCT	Adjustable Pressure Regulator	
PRODUCT CODE	R-2323, 2323 <i>II</i>	
SPECIFICATIONS	Inlet Pressure Range	1 - 17 Bar
	Outlet Pressure Range	(a) 0.5 - 2 Bar
		(b) 0.5 - 4 Bar
		(c) 0.5 - 10 Bar
	Gas Flow Rate	100 Nm ³ /hr.
	End Connection	1" Flanged ANSI #150 R-2323
		1" Flanged ANSI #300 R-2323 <i>II</i>
	Gas	LPG, Natural Gas, Nitrogen
	(CS Body Aluminium Bonnet)	
BRANDS AVAILABLE	VANAZ	

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.



PRODUCT	Adjustable Pressure Regulator
PRODUCT CODE	R-2325
SPECIFICATIONS	Inlet Pressure Range 17 Bar
	Outlet Pressure Range 0.5 - 8 Bar
	Gas Flow Rate 100 Nm ³ /hr.
	End Connection 1" BSPF
	Gas Medical Oxygen, Carbon Dioxide and Oxygen (Brass Body Brass Bonnet)
BRANDS AVAILABLE	VANAZ



PRODUCT	Adjustable Pressure Regulator
PRODUCT CODE	R-2304 / 2304IV
SPECIFICATIONS	Inlet Pressure Maximum 17 Bar
	Outlet Pressure Range 0.5 - 10 Bar
	Gas Flow Rate 250 Nm ³ /hr.
	End Connection 1½" BSPF for 2304 2" BSPF for 2304 IV
	Gas LPG, Natural Gas and Nitrogen (CS Body Aluminium Bonnet)
BRANDS AVAILABLE	VANAZ



PRODUCT	Adjustable Pressure Regulator
PRODUCT CODE	R-2316 / 2316 II
SPECIFICATIONS	Inlet Pressure Maximum 17 Bar
	Outlet Pressure Range 0.5 - 10 Bar
	Gas Flow Rate 250 Nm ³ /hr.
	End Connection 1½" Flanged end ANSI # 150 for 2316 1½" Flanged end ANSI # 300 for 2316 II
	Gas LPG, Natural Gas and Nitrogen (CS Body Aluminium Bonnet)
BRANDS AVAILABLE	VANAZ



PRODUCT	Adjustable Pressure Regulator
PRODUCT CODE	R-2317 / 2317 II
SPECIFICATIONS	Inlet Pressure Maximum 17 Bar
	Outlet Pressure Range 0.5 - 10 Bar
	Gas Flow Rate 250 Nm ³ /hr.
	End Connection 2" Flanged end ANSI # 150 for 2317 2" Flanged end ANSI # 300 for 2317 II
	Gas LPG, Natural Gas and Nitrogen (CS Body Aluminium Bonnet)
BRANDS AVAILABLE	VANAZ



PRODUCT	Adjustable Pressure Regulator
PRODUCT CODE	R-6412
SPECIFICATIONS	Inlet Pressure Maximum 17 Bar
	Outlet Pressure Range 0.5 - 10 Bar
	Gas Flow Rate 600 Nm ³ /hr.
	End Connection 3" Flanged in ANSI # 150
	2301 Bonnet
	Gas LPG, Natural Gas and Nitrogen
BRANDS AVAILABLE	VANAZ



PRODUCT	Adjustable Pressure Regulator
PRODUCT CODE	R-6414
SPECIFICATIONS	Inlet Pressure Maximum 17 Bar
	Outlet Pressure Range 0.5 - 10 Bar
	Gas Flow Rate 750 Nm ³ /hr.
	End Connection 4" Flanged in ANSI # 150
	2301 Bonnet
	Gas LPG, Natural Gas and Nitrogen
BRANDS AVAILABLE	VANAZ



PRODUCT	Adjustable Pressure Regulator
PRODUCT CODE	R-6424 / 6424 II / 6425 / 6425 II
SPECIFICATIONS	Inlet Pressure Maximum 17 Bar
	Outlet Pressure Range 0.5 - 4 Bar
	Gas Flow Rate 1000 Nm ³ /hr. for 3" / 1500 Nm ³ /hr. for 4"
	End Connection R-6424: 3" Flanged in ANSI # 150
	R-6424 II : 3" Flanged in ANSI # 300
	R-6425: 4" Flanged in ANSI # 150
	R-6425 II : 4" Flanged in ANSI # 300
	2318 Bonnet
	Gas LPG, Natural Gas and Nitrogen
BRANDS AVAILABLE	VANAZ



PRODUCT	Adjustable Pressure Regulator
PRODUCT CODE	R-2328
SPECIFICATIONS	Inlet Pressure Maximum 5 - 49 Bar
	Outlet Pressure Range 5 - 30 Bar
	Gas Flow Rate 1500 Nm ³ /hr.
	End Connection 1/2" BSPF for R 2328
	2310 Bonnet
	Gas Carbon Dioxide, Argon and Nitrogen
BRANDS AVAILABLE	VANAZ



PRODUCT	Adjustable Pressure Regulator
PRODUCT CODE	R-2342 / 2337 / 2337 <i>II</i>
SPECIFICATIONS	Inlet Pressure Maximum 17 Bar
	Outlet Pressure Range 0.5 - 4 Bar
	Gas Flow Rate 150 Nm ³ /hr.
	End Connection R-2342 1" BSPF ,
	R-2337 1" Flanged ANSI #150 for Vapour
	R-2337 <i>II</i> 1" Flanged ANSI #300 for liquid
	Gas LPG
BRANDS AVAILABLE	VANAZ



PRODUCT	Adjustable Pressure Regulator
PRODUCT CODE	R-2343 / 2338 / 2338 <i>II</i>
SPECIFICATIONS	Inlet Pressure Maximum 17 Bar
	Outlet Pressure Range 0.5 - 4 Bar
	Gas Flow Rate 350 Nm ³ /hr.
	End Connection R-2343 1½" BSPF ,
	R-2338 1½" Flanged ANSI # 150 for Vapour
	R-2338 <i>II</i> 1½" Flanged ANSI # 300 for liquid
	Gas LPG
BRANDS AVAILABLE	VANAZ



PRODUCT	Adjustable Pressure Regulator
PRODUCT CODE	R-2344 / 2339 / 2339 <i>II</i>
SPECIFICATIONS	Inlet Pressure Maximum 17 Bar
	Outlet Pressure Range 0.5 - 4 Bar
	Gas Flow Rate 400 Nm ³ /hr.
	End Connection R-2344 2" BSPF ,
	R-2339 2" Flanged ANSI # 150 for Vapour
	R-2339 <i>II</i> 2" Flanged ANSI # 300 for liquid
	Gas LPG
BRANDS AVAILABLE	VANAZ



PRODUCT	Adjustable Pressure Regulator
PRODUCT CODE	R-2340 / 2340 <i>II</i>
SPECIFICATIONS	Inlet Pressure 17 Bar
	Outlet Pressure Range 0.5 - 4 Bar
	Gas Flow Rate 1000 Nm ³ /hr.
	End Connection R-2340 3" Flanged in ANSI # 150 for Vapour
	R-2340 <i>II</i> 3" Flanged in ANSI # 300 for Liquid
	for liquid LPG 2318 Bonnet
	Gas LPG
BRANDS AVAILABLE	VANAZ



PRODUCT	Adjustable Pressure Regulator
PRODUCT CODE	R-2341 / 2341 <i>II</i>
SPECIFICATIONS	Inlet Pressure 19 Bar
	Outlet Pressure Range 0.5 - 10 Bar
	Gas Flow Rate 1000 Nm ³ /hr.
	End Connection R-2341 4" Flanged in ANSI #150 for Vapour
	R-2341 <i>II</i> 4" Flanged in ANSI # 300 for Liquid
	2318 Bonnet
	Gas LPG
BRANDS AVAILABLE	VANAZ

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 are mainly used for gas cutting or welding purpose. These regulators have built in safety relief valve at the outlet.

Model R-2101 can be supplied with or without pressure gauge. Also available in ½" BSPF and union nut on request.



PRODUCT	Industrial Gas Regulator	
PRODUCT CODE	R-2101	
SPECIFICATIONS	Inlet Pressure Range	1 - 161 Bar
	Outlet Pressure Range	0.5 - 8 Bar
	Gas Flow Rate	25 Nm ³ /hr.
	SRV set at	12 Bar
	End Connection Inlet	To suit outlet of std. cyl. valve outlet as per IS:3224
	Outlet	Nozzle to suit 8 mm I.D. hose pipe or ¾" BSPM
	Gas	Carbon Dioxide, Oxygen, Hydrogen, Air, Nitrogen, Argon
	Outlet pressure upto 15 bar available on request.	
BRANDS AVAILABLE	VANAZ	



PRODUCT	Industrial Gas Regulator	
PRODUCT CODE	R-2310	
SPECIFICATIONS	Inlet Pressure Maximum	200 Bar
	Outlet Pressure Range	5 - 30 Bar
	Gas Flow Rate	300 Nm ³ /hr.
	End Connection	1½" BSPM
	Gas	Oxygen, Nitrogen, Argon and Carbon dioxide
BRANDS AVAILABLE	VANAZ	



PRODUCT	Industrial Gas Regulator	
PRODUCT CODE	R-2322	
SPECIFICATIONS	Inlet Pressure Maximum	200 Bar
	Outlet Pressure Range	5 - 30 Bar
	Gas Flow Rate	150 Nm ³ /hr.
	End Connection	1" BSPF
	Gas	Oxygen, Nitrogen, Argon and Carbon dioxide
BRANDS AVAILABLE	VANAZ	



PRODUCT	Industrial Gas Regulator	
PRODUCT CODE	R-2328 II	
SPECIFICATIONS	Inlet Pressure Maximum	10 - 49 Bar
	Outlet Pressure Range	5 - 25 Bar
	Gas Flow Rate	2000 Nm ³ /hr.
	End Connection	2" ANSI # 300 flanged end
	Gas	Oxygen, Nitrogen, Hydrogen, CNG, Argon and Carbon dioxide
BRANDS AVAILABLE	VANAZ	

Pilot Operated Regulators

These regulators are more accurate and offer higher capacities than the standard direct operated spring loaded regulators.

They maintain a constant outlet pressure even in case of large variation of inlet pressures or flow rates.



PRODUCT	Pilot Operated Regulator
PRODUCT CODE	R-6608/ 6608 <i>II</i> / 6617 / 6617 <i>II</i>
SPECIFICATIONS	Inlet Pressure Range 5 - 26 Bar
	Outlet Pressure Range 4 - 19 Bar (4000 - 19000 mbar)
	Gas Flow Rate 6000 Nm ³ /hr.
	End Connection R-6608 3" ANSI # 150 flanged for Vapour
	R-6608 <i>II</i> 3" ANSI # 300 flanged for Liquid
	R-6617 4" ANSI # 150 flanged for Vapour
	R-6617 <i>II</i> 4" ANSI # 300 flanged for Liquid
Gas	LPG, Natural Gas, Nitrogen and Carbon Dioxide
BRANDS AVAILABLE	VANAZ



PRODUCT	Pilot Operated Regulator
PRODUCT CODE	R-6609 / 6609 <i>II</i> / 6614 / 6614 <i>II</i>
SPECIFICATIONS	Inlet Pressure Range 1 - 19 Bar
	Outlet Pressure Range 0.5 - 5 Bar (500 - 5000 mbar)
	Gas Flow Rate 2500 Nm ³ /hr.
	End Connection R-6609 3" ANSI # 150 flanged for Vapour
	R-6609 <i>II</i> 3" ANSI # 300 flanged for Liquid
	R-6614 4" ANSI # 150 flanged for Vapour
	R-6614 <i>II</i> 4" ANSI # 300 flanged for Liquid
Gas	LPG, Natural Gas, Nitrogen and Carbon Dioxide
BRANDS AVAILABLE	VANAZ



PRODUCT	Pilot Operated Regulator
PRODUCT CODE	R-6610 / 6610 <i>II</i> / 6611 / 6611 <i>II</i>
SPECIFICATIONS	Inlet Pressure Range 1 - 19 Bar
	Outlet Pressure Range 0.5 - 5 Bar (500 - 5000 mbar)
	Gas Flow Rate 500 Nm ³ /hr.
	End Connection R-6610 2" ANSI # 150 flanged for Vapour
	R-6610 <i>II</i> 2" ANSI # 300 flanged for Liquid
	R-6611 1½" ANSI # 150 flanged for Vapour
	R-6611 <i>II</i> 1½" ANSI # 300 flanged for Liquid
Gas	LPG, Natural Gas, Nitrogen and Carbon Dioxide
BRANDS AVAILABLE	VANAZ

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 5 different types of preset outlet pressures. These are suitable for canteen, restaurants & small Industrial Furnaces.

R-4110 is a low pressure medium flow pressure regulator, mainly used for Industrial Furnaces & other gas appliances.

These regulators are low pressure low flow rate, pressure regulators. These are mainly used where the inlet pressure is varying in a wider range.

These regulators are suitable for small to medium size furnaces. Preset pressure reducing models.



PRODUCT	Preset Pressure Reducer
PRODUCT CODE	R-4109
SPECIFICATIONS	Inlet Pressure Range 1 - 17 Bar
	Outlet Pressure Range (A) 0.03 Bar (B) 0.3 Bar (C) 0.7 Bar (D) 1 Bar (E) 1000 mmwc
	Max Flow Rate : (A) 5 Nm ³ /Hr, (B) 28 Nm ³ /Hr, (C) 28 Nm ³ /Hr, (D) 28 Nm ³ /Hr, (E) 8 Nm ³ /Hr
	End Connection Inlet: 21.8 X 14 TPI (L.H) Female Union Nut, Outlet: ½" BSPF
	Gas : LPG, Nitrogen, Hydrogen, Acetylene, Argon, Natural Gas, Air, Carbon Dioxide
BRANDS AVAILABLE	VANAZ



PRODUCT	Preset Pressure Reducer
PRODUCT CODE	R-4109 V
SPECIFICATIONS	Inlet Pressure Range 1-17 Bar
	Outlet Pressure Range 2 Bar
	Max Flow Rate 30 Nm ³ /hr
	End Connection Inlet: 21.8 X 14 TPI (L.H) Female Union Nut, Outlet: ½" BSPF
	Gas LPG, Natural Gas, Nitrogen, Hydrogen, Carbon Dioxide
BRANDS AVAILABLE	VANAZ



PRODUCT	Preset Pressure Reducer
PRODUCT CODE	R-4110
SPECIFICATIONS	Inlet Pressure Range 1 - 17 Bar
	Outlet Pressure Range 0.03 - 0.3 Bar
	Max Flow Rate 30 Nm ³ /hr.
	End Connection Inlet ½" BSPF / Outlet: ¾" BSPF
	Gas LPG, Natural Gas, Nitrogen, Hydrogen, Carbon Dioxide
BRANDS AVAILABLE	VANAZ



PRODUCT	Preset Pressure Reducer
PRODUCT CODE	R-4110 II
SPECIFICATIONS	Inlet Pressure Range 1 - 17 Bar
	Outlet Pressure Range 0.03 - 0.3 Bar
	Max Flow Rate 30 Nm ³ /hr.
	End Connection Inlet 1" BSPF / Outlet: 1" BSPF
	Gas LPG, Natural Gas, Nitrogen, Hydrogen, Carbon Dioxide
BRANDS AVAILABLE	VANAZ

ADJUSTABLE COMMERCIAL REGULATOR

R-2202 is mainly used as adjustable pressure regulator for LPG / Natural Gas in canteen restaurants & for small furnaces / ovens.



PRODUCT	Adjustable Commercial Regulator
PRODUCT CODE	VANAZ R-2202/2202 I
SPECIFICATIONS	Inlet Pressure : Range 0.5 - 17 Bar Outlet Pressure Range : 0.2 - 2 Bar
	Gas Flow Rate : 20 kg/hr. End Connection Inlet : 21.8 x 14 TPI L.H. Union nut
	Outlet: ¾" BSPF Gas : LPG, Natural, Carbon Dioxide, Nitrogen, Argon & Air
	Available in Brass R 2202
	Also available in ½" BSPF and union nut on request
BRANDS AVAILABLE	VANAZ

These regulators are second stage low pressure high flow rate, pressure reducers. These are mainly used where the inlet pressure is varying in a wider range. These regulators are suitable for small to medium size furnaces, for 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. These are very sensitive regulators and should be used preferably with suitable filters installed before the regulator, and only after first stage regulators.



PRODUCT	Preset Pressure Reducer
PRODUCT CODE	R-5106 / R-5108
SPECIFICATIONS	Inlet Pressure Range 1 - 5 Bar
	Outlet Pressure Range 0.15 - 0.6 Bar (150 - 600 mbar)
	Gas Flow Rate 80 Nm ³ /hr.
	End Connection R-5106 - 1½" BSPF
	R-5108 - 2" BSPF
	Gas LPG, Natural Gas, Nitrogen and Air
BRANDS AVAILABLE	VANAZ



PRODUCT	Preset Pressure Reducer
PRODUCT CODE	R-5107 / R-5109
SPECIFICATIONS	Inlet Pressure Range 1 - 5 Bar
	Outlet Pressure Range 0.15 - 0.3 Bar (150 - 300 mbar)
	Gas Flow Rate 130 Nm ³ /hr.
	End Connection R-5107 - 1½" BSPF
	R-5109 - 2" BSPF
	Gas LPG, Natural Gas, Nitrogen and Air
BRANDS AVAILABLE	VANAZ



PRODUCT	Preset Pressure Reducer
PRODUCT CODE	R-5110 / R-5112
SPECIFICATIONS	Inlet Pressure Range 1 - 5 Bar
	Outlet Pressure Range 0.15 - 0.6 Bar (150 - 600 mbar)
	Gas Flow Rate 80 Nm ³ /hr.
	End Connection R-5110 - 1½" ANSI # 150 Flanged
	R-5112 - 2" ANSI # 150 Flanged
	Gas LPG, Natural Gas, Nitrogen and Air
BRANDS AVAILABLE	VANAZ



PRODUCT	Preset Pressure Reducer
PRODUCT CODE	R-5111 / R-5113
SPECIFICATIONS	Inlet Pressure Range 1 - 5 Bar
	Outlet Pressure Range 0.15 - 0.3 Bar (150 - 300 mbar)
	Gas Flow Rate 130 Nm ³ /hr.
	End Connection R-5111 : 1½" ANSI # 150 Flanged
	R-5113 : 2" ANSI # 150 Flanged
	Gas LPG, Natural Gas, Nitrogen and Air
BRANDS AVAILABLE	VANAZ



PRODUCT	Preset Pressure Reducer	
PRODUCT CODE	R-6418 / R-6419	
SPECIFICATIONS	Inlet Pressure Range	1 - 5 Bar
	Outlet Pressure Range	0.15 - 0.3 Bar (150 - 300 mbar)
	Gas Flow Rate	500 Nm ³ /hr.
	End Connection	R-6418 : 3" ANSI # 150 Flanged
		R-6419 : 4" ANSI # 150 Flanged
	Gas	LPG, Natural Gas and Nitrogen and Air
BRANDS AVAILABLE	VANAZ	



PRODUCT	Preset Pressure Reducer	
PRODUCT CODE	R-6420 / R-6421	
SPECIFICATIONS	Inlet Pressure Range	1 - 5 Bar
	Outlet Pressure Range	0.15 - 0.6 Bar (150 - 600 mbar)
	Gas Flow Rate	400 Nm ³ /hr.
	End Connection	R-6420 : 3" ANSI # 150 Flanged
		R-6421 : 4" ANSI # 150 Flanged
	Gas	LPG, Natural Gas and Nitrogen and Air
BRANDS AVAILABLE	VANAZ	



PRODUCT	Preset Pressure Reducer	
PRODUCT CODE	R-6413 / R-6415	
SPECIFICATIONS	Inlet Pressure Range	1 - 5 Bar
	Outlet Pressure Range	0.15 - 0.6 Bar (150 - 600 mbar)
	Gas Flow Rate	650 Nm ³ /hr.
	End Connection	R-6413 : 3" ANSI # 150 Flanged
		R-6415 : 4" ANSI # 150 Flanged
	Gas	LPG, Natural Gas and Nitrogen and Air
BRANDS AVAILABLE	VANAZ	



PRODUCT	Preset Pressure Reducer	
PRODUCT CODE	R-6422 / R-6423	
SPECIFICATIONS	Inlet Pressure Range	1 - 5 Bar
	Outlet Pressure Range	0.1 - 0.3 Bar (100 - 300 mbar)
	Gas Flow Rate	750 Nm ³ /hr.
	End Connection	R-6422 : 3" ANSI # 150 Flanged
		R-6423 : 4" ANSI # 150 Flanged
	Gas	LPG, Natural Gas and Nitrogen and Air
BRANDS AVAILABLE	VANAZ	



PRODUCT	Preset Pressure Reducer	
PRODUCT CODE	R-6430 / R-6431	
SPECIFICATIONS	Inlet Pressure Range	1 - 5 Bar
	Outlet Pressure Range	0.05 - 0.15 Bar (50 - 150 mbar)
	Gas Flow Rate	1000 Nm ³ /hr.
	End Connection	R-6430 : 3" ANSI # 150 Flanged
		R-6431 : 4" ANSI # 150 Flanged
	Gas	LPG, Natural Gas and Nitrogen and Air
BRANDS AVAILABLE	VANAZ	



PRODUCT	Preset Pressure Reducer	
PRODUCT CODE	R-6506	
SPECIFICATIONS	Inlet Pressure Range	0.5 - 5 Bar
	Outlet Pressure Range	0.03 - 0.15 Bar (30 - 150 mbar)
	Gas Flow Rate	2500 Nm ³ /hr.
	End Connection	6" ANSI # 150 Flanged
	Gas	LPG, Natural Gas and Nitrogen and Air
BRANDS AVAILABLE	VANAZ	



PRODUCT	Preset Pressure Reducer	
PRODUCT CODE	R-6118 / R-6119	
SPECIFICATIONS	Inlet Pressure Range	1.5 Bar
	Outlet Pressure Range	0.01 - 0.2 Bar (10 - 200 mbar)
	Gas Flow Rate	120 Nm ³ /hr.
	End Connection	R-6118 : 1½" ANSI # 150 Flanged
		R-6119 : 2" ANSI # 150 Flanged
	Gas	LPG, Natural Gas and Nitrogen and Air
BRANDS AVAILABLE	VANAZ	



PRODUCT	Preset Pressure Reducer	
PRODUCT CODE	R-6111 I / R-6121	
SPECIFICATIONS	Inlet Pressure Range	1.5 Bar
	Outlet Pressure Range	0.03 - 0.3 Bar (30 - 300 mbar)
	Gas Flow Rate	60 Nm ³ /hr.
	End Connection	R-6111 I : 1½" BSPF
		R-6121 : 2" BSPF
	Gas	LPG, Natural Gas and Nitrogen and Air
BRANDS AVAILABLE	VANAZ	



PRODUCT	Preset Pressure Reducer	
PRODUCT CODE	R-6116 / R-6117	
SPECIFICATIONS	Inlet Pressure Range	1.5 Bar
	Outlet Pressure Range	0.03 - 0.3 Bar (30 - 300 mbar)
	Gas Flow Rate	60 Nm ³ /hr.
	End Connection	R-6116 : 1½" ANSI # 150 Flanged
		R-6117 : 2" ANSI # 150 Flanged
	Gas	LPG, Natural Gas and Nitrogen and Air
BRANDS AVAILABLE	VANAZ	



PRODUCT	Preset Pressure Reducer	
PRODUCT CODE	R-6106 / R-6120	
SPECIFICATIONS	Inlet Pressure Range	1.5 Bar
	Outlet Pressure Range	0.01 - 0.2 Bar (10 - 200 mbar)
	Gas Flow Rate	120 Nm ³ /hr.
	End Connection	R-6106 : 1½" BSPF
		R-6120 : 2" BSPF
	Gas	LPG, Natural Gas and Nitrogen and Air
BRANDS AVAILABLE	VANAZ	



PRODUCT	Preset Pressure Reducer	
PRODUCT CODE	R-6416 / R-6417	
SPECIFICATIONS	Inlet Pressure Range	1.5 Bar
	Outlet Pressure Range	0.03 - 0.5 Bar (30 - 500 mbar)
	Gas Flow Rate	500 Nm ³ /hr.
	End Connection	R-6416 : 3" ANSI # 150 Flanged
		R-6417 : 4" ANSI # 150 Flanged
	Gas	LPG, Natural Gas and Nitrogen and Air
BRANDS AVAILABLE	VANAZ	



PRODUCT	Preset Pressure Reducer	
PRODUCT CODE	R-6410 / R-6411	
SPECIFICATIONS	Inlet Pressure Range	1.5 Bar
	Outlet Pressure Range	0.03 - 0.3 Bar (30 - 300 mbar)
	Gas Flow Rate	600 Nm ³ /hr.
	End Connection	R-6410 : 3" ANSI # 150 Flanged
		R-6411 : 4" ANSI # 150 Flanged
	Gas	LPG, Natural Gas and Nitrogen and Air
BRANDS AVAILABLE	VANAZ	

These regulators are used in pressure reducing system for Natural gas or LPG.

They are used to reduce the natural gas pressure from 4 to 6 Bar to 30-100 mbar before supplying it to the domestic feeder line.

These regulators are having built in over pressure shut off and under pressure shut off valve and creep relief valve (safety relief valve).

They can also be installed for LPG / NG Reticulated system in buildings / Apartments and for imported automatic burners.



PRODUCT	Service Regulator	
PRODUCT CODE	R-4416 / 4416 II / 4418 III UPSO, OPSO & CRV	
SPECIFICATIONS	Inlet Pressure Range	0.5 - 6 BAR
	Outlet Pressure Range	100-300 mbar with OPSO UPSO CRV
	Gas Flow Rate	6/10/25/50 Nm ³ /hr.
	End Connection	¾" x 1" BSPF or 1" x 1½" BSPF Gas : Natural Gas, LPG
	OPSO set at 40% higher than set outlet pressure	
	UPSO set at 20% below set outlet pressure	
	CRV set at 35% higher than set outlet pressure. As per EN88-2	
BRANDS AVAILABLE	VANA Z	



PRODUCT	Service Regulator	
PRODUCT CODE	R-4410 UPSO, OPSO & CRV	
SPECIFICATIONS	Inlet Pressure Range	0.5 - 5 Bar
	Outlet Pressure Range	30-200 mbar with OPSO UPSO CRV
	Gas Flow Rate	65 Nm ³ /hr. End Connection 1" BSPF
	Gas	Natural Gas, LPG
	OPSO set at 40% higher than set outlet pressure	
	UPSO set at 20% below set outlet pressure	
	CRV set at 35% higher than set outlet pressure	
BRANDS AVAILABLE	VANA Z	



PRODUCT	Service Regulator	
PRODUCT CODE	R-4411 OPSO, UPSO & CRV	
SPECIFICATIONS	Inlet Pressure Range	0.5- 5Bar
	Outlet Pressure Range	0.1-1 Bar
	Gas Flow Rate	100 Nm ³ /hr.
	End Connection	1" BSPF Gas : Natural Gas, LPG
	OPSO set at 40% higher than operating pressure	
	UPSO set at 20% lower than operating pressure	
	CRV set at 35% higher than set pressure As per EN88-2	
BRANDS AVAILABLE	VANA Z	



PRODUCT	Service Regulator	
PRODUCT CODE	R-4405 OPSO	
SPECIFICATIONS	Inlet Pressure Range	0.5- 5 Bar
	Outlet Pressure Range	0.03 -1 Bar with OPSO
	Gas Flow Rate	30 Nm ³ /hr.
	End Connection	1" BSPF
	Gas	Natural Gas, LPG
	OPSO set at 40% higher than operating pressure	
BRANDS AVAILABLE	VANA Z	

These regulators are mainly used for ammonia gas. The trim parts for these regulators are of stainless steel.

R-2301I is adjustable pressure regulator and is mainly used as first stage pressure regulator.

R-2402 is a fine control adjustable pressure regulator which is used when precision pressure control is required for instrumentation purposes.

R-4108/R-4110I are preset type regulators and are mainly used as second stage pressure regulation.



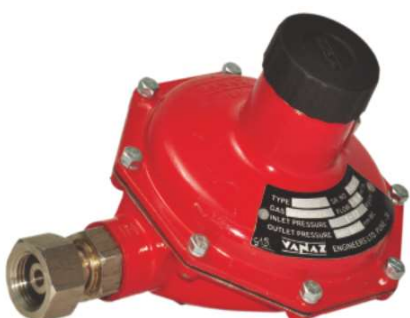
PRODUCT	Ammonia Pressure Regulator
PRODUCT CODE	R-2301 I
SPECIFICATIONS	Inlet Pressure Range 1 - 20 Bar
	Outlet Pressure 0.5 - 10 Bar
	Gas Flow Rate 100 Nm ³ /hr.
	End Connection 1" BSPF
	Gas Ammonia
BRANDS AVAILABLE	VANAZ



PRODUCT	Ammonia Pressure Reducer
PRODUCT CODE	R-4110 I
SPECIFICATIONS	Inlet Pressure Range 1 - 17 Bar
	Outlet Pressure Range 0.03 - 0.3 Bar
	Max Flow Rate 30 Nm ³ /hr
	End Connection Inlet ½" BSPF
	Outlet ¾" BSPF
	Also available in 1" BSPF
	Gas Ammonia
BRANDS AVAILABLE	VANAZ



PRODUCT	Ammonia Pressure Regulator
PRODUCT CODE	R-2402
SPECIFICATIONS	Max Inlet Pressure 22 Bar
	Outlet Pressure 0.5 - 0.4 Bar
	Gas Flow Rate 25 Nm ³ /hr.
	End Connection ½" BSPF (Union Nut)
	Gas Ammonia
BRANDS AVAILABLE	VANAZ



PRODUCT	Ammonia Pressure Reducer
PRODUCT CODE	R-4108
SPECIFICATIONS	Inlet Pressure Range 1-5 Bar
	Outlet Pressure (a) 30 - 150 mbar, (b) 150 - 300 mbar, (c) 300 - 700 mbar, (d) 700 - 1000 mbar
	Inlet Connection ½" BSPF (Union Nut)
	Outlet Connection ½" BSPF (Union Nut)
	Gas Ammonia
	Gas Flow Rate (a) 10 Nm ³ /hr. (b) 30 Nm ³ /hr. (c) 30 Nm ³ /hr. (d) 30 Nm ³ /hr.
BRANDS AVAILABLE	VANAZ

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Gas Filters

A filter must be fitted prior to the regulator on the upstream or downstream side to ensure that only clean, dust free gas enters the regulator. The presence of dust/ dirt in pipeline results in malfunctioning of the regulator because of damage which may be caused to the regulator seat and rubber seating pad.

Also movement of the linkage is restricted due to the deposit of dust/dirt on the moving parts and it affects the performance of the regulator.



PRODUCT	Filter Aluminium Die Cast Body
PRODUCT CODE	F-0112 <i>III</i>
SPECIFICATIONS	Working Pressure 6 Bar
	Gas Flow Capacity 100 Nm ³ /hr.
	End Connection 1" BSPF
	Gas LPG, Natural Gas, Nitrogen and Air
BRANDS AVAILABLE	VANAZ



PRODUCT	Filter WCB CS Body
PRODUCT CODE	F-0105 / 0105 <i>I</i> / 0105 <i>II</i>
SPECIFICATIONS	Working Pressure 20 Bar
	Gas Flow Capacity 200 / 350 / 500 Nm ³ /hr.
	End Connection F-0105 1" BSPF
	F-0105 <i>I</i> 1½" BSPF
	F-0105 <i>II</i> 2" BSPF
	Gas LPG, Natural Gas, Nitrogen and Air
BRANDS AVAILABLE	VANAZ



PRODUCT	Filter WCB CS Body
PRODUCT CODE	F-0109 / 0109 <i>II</i>
SPECIFICATIONS	Working Pressure 20 Bar
	Gas Flow Capacity 200 Nm ³ /hr.
	End Connection F-0109 1" ANSI 150 for Vapour
	F-0109 <i>II</i> 1" ANSI # 300 for Liquid
	Gas LPG, Natural Gas, Nitrogen and Air
BRANDS AVAILABLE	VANAZ



PRODUCT	Filter WCB CS body
PRODUCT CODE	F-0107 / 0107 <i>II</i> / 0108 / 0108 <i>II</i>
SPECIFICATIONS	Working Pressure 20 Bar
	Gas Flow Capacity 350 / 350 / 500 / 500 Nm ³ /hr.
	End Connection F-0107 1½" ANSI # 150 for Vapour
	F-0107 <i>II</i> 1½" ANSI # 300 for liquid
	F-0108 2" ANSI # 150 for Vapour
	F-0108 <i>II</i> 2" ANSI # 300 for liquid
	Gas LPG, Natural Gas, Nitrogen and Air
BRANDS AVAILABLE	VANAZ



PRODUCT	Filter WCB CS body
PRODUCT CODE	F-0111 / 0111 <i>II</i> / 0106 / 0106 <i>II</i>
SPECIFICATIONS	Working Pressure 20 Bar
	Gas Flow Capacity 3000 / 3000 / 5000 / 5000 Nm ³ /hr.
	End Connection F-0111 3" ANSI # 150 for Vapour
	F-0111 <i>II</i> 3" ANSI # 300 for liquid
	F-0106 4" ANSI # 150 for Vapour
	F-0106 <i>II</i> 4" ANSI # 300 for liquid
	Gas LPG, Natural Gas, Nitrogen and Air
BRANDS AVAILABLE	VANAZ



PRODUCT	Filter Aluminium Die Cast Body	
PRODUCT CODE	VEL- 0112 A / 0112 B / 0112 C	
SPECIFICATIONS	Working Pressure	6 Bar
	Gas Flow Capacity	100 Nm ³ /hr.
	End Connection	VEL-0112 A : ½" BSPF
		VEL-0112 B : ¾" BSPF
		VEL-0112 C : 1" BSPF
	Gas	LPG, Natural Gas and Nitrogen and Air
BRANDS AVAILABLE	VEL	



PRODUCT	Filter WCB CS Body	
PRODUCT CODE	VEL- 0105 / 0105 I	
SPECIFICATIONS	Working Pressure	20 Bar
	Gas Flow Capacity	200 / 350 / 500 Nm ³ /hr.
	End Connection	VEL-0105 : 1" BSPF
		VEL-0105 I : 1½" BSPF
	Gas	LPG, Natural Gas and Nitrogen and Air
BRANDS AVAILABLE	VEL	



PRODUCT	Filter MS Fabricated Body	
PRODUCT CODE	VEL- 0109 / 0109 II	
SPECIFICATIONS	Working Pressure	20 Bar
	Gas Flow Capacity	200 Nm ³ /hr.
	End Connection	VEL-0109 : 1" ANSI 150 for Vapour
		VEL-0109 II : 1" ANSI 300 for Liquid
	Gas	LPG, Natural Gas and Nitrogen and Air
BRANDS AVAILABLE	VEL	



PRODUCT	Filter MS Fabricated Body	
PRODUCT CODE	VEL- 0107 / 0107 II / 0108 / 0108 II	
SPECIFICATIONS	Working Pressure	20 Bar
	Gas Flow Capacity	350 / 350 / 500 / 500 Nm ³ /hr.
	End Connection	VEL-0107 : 1½" ANSI #150 for Vapour
		VEL-0107 II : 1½" ANSI #300 for Liquid
		VEL-0108 : 2" ANSI #150 for Vapour
		VEL-0108 II : 2" ANSI #300 for Liquid
	Gas	LPG, Natural Gas and Nitrogen and Air
BRANDS AVAILABLE	VEL	



PRODUCT	Filter MS Fabricated Body	
PRODUCT CODE	VEL- 0111 / 0111 II / 0106 / 0106 II	
SPECIFICATIONS	Working Pressure	20 Bar
	Gas Flow Capacity	3000 / 3000 / 5000 / 5000 Nm ³ /hr.
	End Connection	VEL-0111 : 3" ANSI #150 for Vapour
		VEL-0111 II : 3" ANSI #300 for Liquid
		VEL-0106 : 4" ANSI #150 for Vapour
		VEL-0106 II : 4" ANSI #300 for Liquid
	Gas	LPG, Natural Gas and Nitrogen and Air
BRANDS AVAILABLE	VEL	

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Safety Valves

Slam Shut-off valve is installed immediately after the filter & prior to the Regulator. It normally remains open. In case the outlet pressure of the regulator exceeds the permissible limits, the slam shut off valve senses it through the impulse line & immediately shuts off the flow to downstream. When the regulator is repaired, the slam shut off valve is to be opened manually by pulling the knob. Once the flow starts through the slam shut off valve it will remain open till the outlet pressure of the regulator is within limits. Also Known as OPSO



PRODUCT	Slam Shut Off Valve	
PRODUCT CODE	V-4321 <i>I</i>	
SPECIFICATIONS	Inlet Pressure Range	0.5 - 19 Bar
	Shut Off Pressure Setting	(a) 0.5 Bar (b) 3 Bar (c) 6 Bar
	Gas Flow Rate	150 Nm ³ /hr
	End Connection	1" BSPF
	Gas	LPG, Natural Gas, Nitrogen, Air
	Supplied with sensing hose	
BRANDS AVAILABLE	VANAZ	



PRODUCT	Slam Shut Off Valve	
PRODUCT CODE	V-4325 <i>I</i> / 4325 <i>II</i>	
SPECIFICATIONS	Inlet Pressure Range	0.5 - 19 Bar
	Shut Off Pressure Setting	(a) 0.5 Bar (b) 3 Bar (c) 6 Bar
	Gas Flow Rate	150 Nm ³ /hr
	End Connection	V-4325 <i>I</i> 1" ANSI # 150 for vapour V-4325 <i>II</i> 1" ANSI # 300 for liquid
	Gas	LPG, Natural Gas, Nitrogen, Air
	Supplied with sensing hose	
BRANDS AVAILABLE	VANAZ	



PRODUCT	Slam Shut Off Valve	
PRODUCT CODE	V-4326 <i>I</i>	
SPECIFICATIONS	Inlet Pressure Range	30 - 250 Bar
	Shut Off Pressure Setting	12 - 120 Bar
	Gas Flow Rate	1000 Nm ³ /hr
	End Connection	1" BSPF or 1½" BSPM
	Gas	Natural Gas, Oxygen, Nitrogen, Carbon dioxide,
	Supplied with sensing hose	
BRANDS AVAILABLE	VANAZ	



PRODUCT	Slam Shut Off Valve	
PRODUCT CODE	V-4327 <i>I</i> / 4327 <i>II</i> / 4328 <i>I</i> / 4328 <i>II</i>	
SPECIFICATIONS	Inlet Pressure Range	0.5 - 19 Bar
	Shut Off Pressure Setting	(a) 0.5 Bar (b) 3 Bar (c) 6 Bar
	Gas Flow Rate :	400 Nm ³ /hr
	End Connection	V-4327 <i>I</i> 1½" ANSI # 150 for vapour V-4327 <i>II</i> 1½" ANSI # 300 for liquid V-4328 <i>I</i> 2" ANSI # 150 for vapour V-4328 <i>II</i> 2" ANSI # 300 for liquid
	Gas	LPG, Natural Gas, Nitrogen , Air
	Supplied with sensing hose	
BRANDS AVAILABLE	VANAZ	



PRODUCT	Slam Shut Off Valve
PRODUCT CODE	V-4329 I / 4330 I
SPECIFICATIONS	Inlet Pressure Range 0.5 - 19 Bar
	Shut Off Pressure Setting (a) 0.5 Bar (b) 3 Bar (c) 6 Bar
	Gas Flow Rate 750 Nm ³ /hr
	End Connection V-4329 I 3" ANSI # 150
	V-4330 I 4" ANSI # 150
	Gas LPG, Natural Gas, Nitrogen, Air
	Supplied with sensing hose
BRANDS AVAILABLE	VANAZ



PRODUCT	Slam Shut Off Valve
PRODUCT CODE	V-4335 I / 4335 II / 4336 I / 4336 II
SPECIFICATIONS	Inlet Pressure Range 0.5 - 26 Bar
	Shut Off Pressure Setting 1 - 12 Bar
	Gas Flow Rate 2500 Nm ³ /hr
	End Connection V-4335 I 3" ANSI # 150 for vapour
	V-4335 II 3" ANSI # 300 for liquid
	V-4336 I 4" ANSI # 150 for vapour
	V-4336 II 4" ANSI # 300 for liquid
	Gas LPG, Natural Gas, Nitrogen, Air
	Supplied with sensing hose
BRANDS AVAILABLE	VANAZ



PRODUCT	Slam Shut Off Valve
PRODUCT CODE	V-4335 with 2301 Pilot
SPECIFICATIONS	Working Pressure 1 - 49 Bar
	Shut Off Pressure Setting 6 - 12 Bar
	Gas Flow Rate 6000 Nm ³ /hr
	End Connection 3" or 4" flanged end ANSI # 150
	Medium LPG, Natural Gas, Nitrogen, Air
	Supplied with sensing hose
BRANDS AVAILABLE	VANAZ



PRODUCT	Slam Shut Off Valve
PRODUCT CODE	V-4323
SPECIFICATIONS	Inlet Pressure Range 10 - 250 Bar
	Shut Off Pressure Setting 12 - 120 Bar
	Gas Flow Rate 500 Nm ³ /hr
	End Connection 1" BSPF
	Gas Natural Gas, Oxygen, Nitrogen, Carbon dioxide and Hydrogen
	Supplied with sensing hose
BRANDS AVAILABLE	VANAZ

A Safety Relief Valves opens automatically when pressure increases and shuts off as soon as the pressure decreases below the set limit.

V-7713 and V-7715 have metal to metal seat and are suitable for high pressure applications upto 200 bar.

V-7732, V-7743, V-7744 and V-7745 have soft seat and are available at prescribed set pressures.

R-4105 can be used for low pressure applications.

We can deliver SRV for all gases and material of construction will depend on the type of the gas.



PRODUCT	Safety Relief Valve	
PRODUCT CODE	V-7713 / 7715	
SPECIFICATIONS	Set Pressure Range	20 to 200 Bar
	End Connection	½", ¾", 1" BSPF as per requirement.
	Medium	CNG, LPG, Carbon Dioxide, Nitrogen, Air, Hydrogen, Argon etc.
	Body	SS
BRANDS AVAILABLE	VANAZ	



PRODUCT	Safety Relief Valve	
PRODUCT CODE	V-7743	
SPECIFICATIONS	Set Pressure	up to 1 to 10 bar
	End Connection	½", ¾" BSP as per requirement. M/F
	Medium	CNG, LPG, Carbon Dioxide, Nitrogen, Air, Argon etc.
	Body	Brass
BRANDS AVAILABLE	VANAZ	



PRODUCT	Safety Relief Valve	
PRODUCT CODE	V-7744	
SPECIFICATIONS	Maximum Set Pressure	10 to 110 Bar
	End Connection	½", ¾", 1" BSPF as per requirement.
	Medium	CNG, LPG, Carbon Dioxide, Nitrogen, Air, Argon, Oxygen etc.
	Body	Brass
BRANDS AVAILABLE	VANAZ	



PRODUCT	Safety Relief Valve	
PRODUCT CODE	V-7745	
SPECIFICATIONS	Set Pressure range	0.3 to 12 bar
	End Connection	1" BSPF
	Medium	LPG, Natural Gas, Nitrogen, Oxygen, Carbon Dioxide
	Body	CS
BRANDS AVAILABLE	VANAZ	



PRODUCT	Safety Relief Valve	
PRODUCT CODE	V-7738 Diaphragm Type	
SPECIFICATIONS	Set Pressure	0.03 to 0.5 Bar
	End Connection	1", 1½" or 2" BSPF
	Medium	Natural Gas, LPG, Carbon Dioxide, Nitrogen, Air etc.
BRANDS AVAILABLE	VANAZ	



PRODUCT	Safety Relief Valve	
PRODUCT CODE	V-7732	
SPECIFICATIONS	Set Pressure range	0.5 to 12 bar
	End Connection	1½" or 2" BSPF
	Medium	LPG, Natural Gas, Carbon Dioxide, Nitrogen, Oxygen
BRANDS AVAILABLE	VANAZ	



PRODUCT	Safety Relief Valve	
PRODUCT CODE	R - 4105	
SPECIFICATIONS	Set Pressure range	0.03 to 0.5 bar
	End Connection	½" BSPF
	Medium	LPG, Natural Gas, Nitrogen, Oxygen, Carbon Dioxide
BRANDS AVAILABLE	VANAZ	

Flame arrestors are used to arrest the flame from reaching the highly dense area of fuel, in case of backfire and thus avoid accident and explosions. When a flammable gas escapes through the safety relief valve to atmosphere it must pass through the flame arrestor which will prevent the occurrence of accidents/backfire.

The flame arrestor should be installed prior to the burner to avoid flame propagation into the upstream line due to backfire.



PRODUCT	Flame Arrestor with in-built NRV
PRODUCT CODE	R-9102 / 9104
SPECIFICATIONS	Maximum Working Pressure 20 BAR
	End Connection $\frac{1}{2}$ ", $\frac{3}{4}$ ", 1" BSPF as per requirement.
	Medium CNG, LPG, Carbon Dioxide, Nitrogen, Air, Hydrogen, Argon etc.
BRANDS AVAILABLE	VANAZ



PRODUCT	Flame Arrestor with in-built NRV
PRODUCT CODE	R-9109 / 9109 I
SPECIFICATIONS	Maximum Working Pressure 20 BAR
	End Connection R 9109, 1 $\frac{1}{2}$ " BSPF
	R 9109 I, 2" BSPF
	Medium LPG, Natural Gas
BRANDS AVAILABLE	VANAZ



PRODUCT	Flame Arrestor with in-built NRV
PRODUCT CODE	R-9110 / 9111
SPECIFICATIONS	Maximum Working Pressure 20 BAR
	End Connection R 9110 $\frac{1}{2}$ ", $\frac{3}{4}$ "-1" BSPF
	R 9111 1 $\frac{1}{2}$ ", 2" BSPF
	Medium Oxygen, LPG, Natural Gas & Acetylene
BRANDS AVAILABLE	VANAZ

AUTO CHANGE OVER

Auto changeovers are working on a pressure principle and switch the side of supply according to a set pressure drop which activates the switchover. The auto changeover can also be manufactured for liquid LPG systems.



PRODUCT	Auto Changeover
PRODUCT CODE	R-9501
SPECIFICATIONS	R-9501 in R-2202 model for 50 kg/hr
	Inlet pressure 1 to 17 Bar
	Outlet set pressure 1.2 Bar
	End Connection $\frac{1}{2}$ " BSPF
	Suitable for Vapour LPG
BRANDS AVAILABLE	VANAZ

Flame arrestors are used to arrest the flame from reaching the highly dense area of fuel, in case of backfire and thus avoid accident and explosions. When a flammable gas escapes through the safety relief valve to atmosphere it must pass through the flame arrestor which will prevent the occurrence of accidents/backfire.

The flame arrestor should be installed prior to the burner to avoid flame propagation into the upstream line due to backfire.



PRODUCT	Flashback arrestor with non return valves
PRODUCT CODE	1420
SPECIFICATIONS	Material : Brass Forging
	Materials compatible to fluids. Environment friendly
	Connections : Standard in 1/2" BSP RHF / RHM.
	Wide range of external, internal as well combination of threads for Industrial & Domestic usage
	Available in 2 models - 20 bar & 200 bar test pressure.
BRANDS AVAILABLE	UE



PRODUCT	Flame Arrestor
PRODUCT CODE	1421 to 1427
SPECIFICATIONS	Available in 1/2", 3/4", 1", 1 1/2", 2" BSPF Threaded
	SS / MS seamless metal tubes
	Suitable for LPG / NG / Nitrogen
	Only for prevention of flashback, not suitable as non return valve
	Design : 5/7 layers of SS mesh
BRANDS AVAILABLE	VEL



PRODUCT	Flame Arrestor
PRODUCT CODE	1421 to 1427
SPECIFICATIONS	Available in 1/2", 3/4", 1", 1 1/2", 2" ASA #150 or ASA #300 flanged body
	SS / MS seamless metal tubes and metal flanges
	Suitable for LPG / NG / Nitrogen
	Only for prevention of flashback, not suitable as non return valve
	Design : 5/7 layers of SS mesh
BRANDS AVAILABLE	VEL



PRODUCT	Pressure Switch
PRODUCT CODE	RT 116 / RT 112
SPECIFICATIONS	RT 116 series pressure switch in IP : 65 enclosure suitable for LPG application having range from 1 to 10 bar to set at 7 bar with 5 amp 250 V SPDT contacts connection 3/8" BSPM
	RT 112 series pressure switch in IP 65 enclosure suitable for LPG application having range from 0.1 to 1.1 bar to set at 0.5 bar with 5 amp 250 V SPDT contacts connection 3/8" BSPM
BRANDS AVAILABLE	INDFOSS / SWITZER / WIKA



PRODUCT	Pressure Switch
PRODUCT CODE	PS050-PP / PS0150-PP / PS500-PP
SPECIFICATIONS	Pressure Switches are designed for switching a circuit on, off or over if the pressure actual value changes in relation to the set point.
	PS050-PP Positive Pressure Switch range 2.5 - 50 mbar Pmax 500 mbar
	PS0150-PP Positive Pressure Switch range 30 - 150 mbar Pmax 500 mbar
	PS500-PP Positive Pressure Switch range 100 - 500 mbar Pmax 1 bar
	Pressure Connection 1/4" BSP
BRANDS AVAILABLE	GECA



PRODUCT	Pressure Switch
PRODUCT CODE	PS60 / PS100
SPECIFICATIONS	Weatherproof pressure switch IP : 67 having range in models 10-100 mbar or 50 - 600 mbar
	Working pressure 7 bar
	Connection 1/2" BSPM
	PS600 : Pressure Range 50 - 600 mbar
	PS100 : Pressure Range 10 - 100 mbar
BRANDS AVAILABLE	ITEC



PRODUCT	Pressure Switch
PRODUCT CODE	PS10 / PS16 / PS20 / PS30
SPECIFICATIONS	Auto rest pressure switch IP : 67 having range in models 0 - 10 bar or 0 - 16 bar or 5 - 20 bar or 5 - 30 bar
	Working pressure 30 bar max. Connection 1/4" BSPF
	PS10 : Pressure Range 0 - 10 bar
	PS16 : Pressure Range 0 - 16 bar
	PS20 : Pressure Range 5 - 20 bar
	PS30 : Pressure Range 5 - 30 bar
BRANDS AVAILABLE	ITEC



PRODUCT	Flow Glass
PRODUCT CODE	1435 / 1435A / 1435B / 1436 / 1436A / 1436B / 1437
SPECIFICATIONS	Twin sight toughened glass built into CS forged WCB body available in sizes 1", 1 1/2", 2" as per ANSI # 150 or 300.
	Working pressure 17 bar.
BRANDS AVAILABLE	PUNEGAS / VEL



PRODUCT	Temperature Indicator Controller Ignition Panel for Burner Control
PRODUCT CODE	1319
SPECIFICATIONS	TICIFS is used for Automatic Burner controlling the temperature and
	Flame failure for Burners which work as per PLC
	Temperature Indicator Controller Ignition flame sensing panel for burner
	with Solenoid valves and flame arrester
BRANDS AVAILABLE	GAZWARN



PRODUCT	Automatic Electronic Changeover Panel
PRODUCT CODE	AECP
SPECIFICATIONS	For switching from one bank to another bank with high & low pressure alarm
	When the pressure in the one of the gas bank goes below or above
	certain limits, Pressure transmitter will sense the same and send signal to
	the solenoid valve it will operate and supply of gas will be cut off from the
	bank and supply of gas will resumed from another bank automatically. Green
	Light will indicate the normal working of supply of gas from the Gas bank and
	red light will flash in case of pressure goes Below or Above certain limits.
BRANDS AVAILABLE	GAZWARN



PRODUCT	Pressure Alarm System
PRODUCT CODE	1438
SPECIFICATIONS	High / Low / Dual Combo Pressure Switch with alarm for Manifolds or
	Pipelines
BRANDS AVAILABLE	GAZWARN



PRODUCT	Electric CO ₂ Heater 230 V
PRODUCT CODE	COH
SPECIFICATIONS	For carbon dioxide individual cylinder manifolds
	Size ½" male x female for CO ₂ cylinder
BRANDS AVAILABLE	MISATU

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Flow Control Valves



PRODUCT	Solenoid Valves
PRODUCT CODE	1344 to 1367
SPECIFICATIONS	Used for controlling flow of gas with connectivity to PLC or Sequence controller. Made in modular in construction facilitating the user to select valves for various application from wide range and different construction of Solenoids independently. Built in aluminium, brass or SS bodies which are weather proof and Flame proof.
	Available in 2/2 way Normally Open / Normally Closed
	Power supply : 230 V AC / 12 V DC / 24 V DC
	Pressure range : 0.5 - 12 bar (other range upto 40 bar available on request)
	Body : Aluminium , SS 304 and Brass
	Size : ¼" to 2" BSPF screwed end and 3" - 4" Flanged end ASA #150
BRANDS AVAILABLE	UFLOW



Size 3/4"

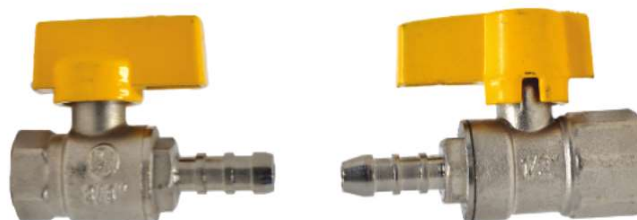
Size 1"

Size 2"

PRODUCT	Excess FlowCheck Valve
PRODUCT CODE	1327 / 1328 / 1329 / 1330
SPECIFICATIONS	In brass body available in ¾", 1", 1½", 2" sizes with different flow capacities ranging from 18GPM to 54 GPM. Essential safety device to protect pressurised tank or container against loss of its contents in the event of a pipeline fracture. Permits flow in either direction but controls its rate in one direction when it exceeds another.
	Working Pressure 17 bar
	Available in screwed type, flanged type or sandwich type
BRANDS AVAILABLE	ANIL / KOSAN



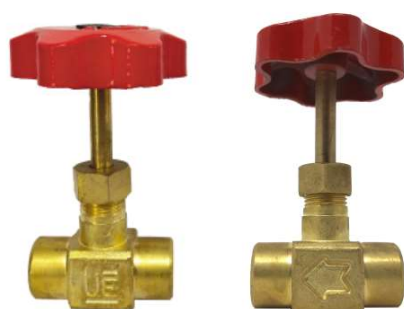
PRODUCT	Quarter Turn Ball Valve With Nozzle
PRODUCT CODE	1279
SPECIFICATIONS	These two piece LPG Ball Valves have their bodies forged in brass, chrome plated and working parts from stainless steel. Seats and gland washers are P.T.F.E. These valves are full bore, anti-static and fire safe. The lever and spindle have a dual lock system for quarter turn operation. Available in nozzle outlet for hose connections.
	Inlet size ¼", ½", ¾" or 1" BSPF
	Outlet size 8 mm nozzle Made as per EN 331 standard
BRANDS AVAILABLE	SG



PRODUCT	Quarter Turn Ball Valve Screwed Full Bore
PRODUCT CODE	1278 / 1278 EN
SPECIFICATIONS	These two piece LPG Ball Valves have their bodies forged in brass, chrome plated and working parts from stainless steel. Seats and gland washers are P.T.F.E. These valves are full bore, anti-static and fire safe. The lever and spindle have a dual lock system for quarter turn operation.
	Inlet size ¼", ½", ¾" or 1" BSPF
	Outlet size ¼", ½", ¾" or 1" BSPF
	Made as per EN 331 standard
BRANDS AVAILABLE	ASTRON / SG



PRODUCT	Needle Control Valves
PRODUCT CODE	1250 to 1254
SPECIFICATIONS	Brass forged body needle control valves used for controlling flow of gas to burners in kitchen equipment or from line to cooking platform.
	Sizes available 3/8" MT x 3/8" CU
	1/2" MT x 3/8" CU
	1/2" MECV x 1/2" MECV
	1/2" MT x 1/2" MT
	Working Pressure 15 bar
BRANDS AVAILABLE	VEL / PUNEGAS / UE



PRODUCT	Needle Control Valves for Pressure Gauges
PRODUCT CODE	1255
SPECIFICATIONS	Brass forged body needle control valves used for controlling flow of gas to pressure gauge mounted above it
	Sizes available 3/8" BSPF x 3/8" BSPF
	Working Pressure 15 bar
BRANDS AVAILABLE	VEL / PUNEGAS / UE



PRODUCT	High Pressure Needle Control Valves
PRODUCT CODE	1256 / 1257 / 1258 / 1259
SPECIFICATIONS	Stainless steel heavy duty body, high pressure needle control valves having
	working pressure 400 bar (6000 PSI)
	Size Available 1/4" BSPF x 1/4" BSPF
	1/2" BSPF x 1/2" BSPF
	3/4" BSPF x 3/4" BSPF
	1" BSPF x 1" BSPF
BRANDS AVAILABLE	ITEC



PRODUCT	LPG Cylinder Valve VOT
PRODUCT CODE	1368
SPECIFICATIONS	Unreduced pressure brass forged self closing quick filling LPG cylinder valves for VOT cylinders suitable for 25.6 mm cylinder regulator outlet.
	Inlet 3/4" NPT suitable for any size of cylinders
	Maximum vapour withdrawal 700 g/hr
	Test Pressure 17 bar as per BS EN: 13152 / IS: 8737
BRANDS AVAILABLE	KOSAN



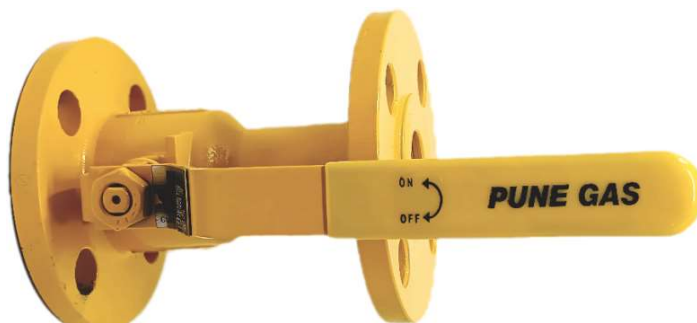
PRODUCT	LPG Cylinder Valve LOT
PRODUCT CODE	1369
SPECIFICATIONS	Handwheel operated forged brass body male outlet 1 1/4" ACME with safety liquid withdrawal type facility coupled with built in excess flow device and safety relief valve.
	Test Pressure 17 bar as per BS EN: 13153 / IS: 8737
	Maximum liquid withdrawal rate 5 kg/hr
BRANDS AVAILABLE	KOSAN



PRODUCT	3 Piece Design Ball Valve IC Square
PRODUCT CODE	1290 to 1294
SPECIFICATIONS	3 Piece Design Ball Valve in flanged, screwed or socket welded
	WCB CS or SS CF8 body.
	Made as per design standard IS 9890 : 1981 full bore investment casting
	Pressure rating BS 6755 Part I API 598 IS 6157 : 1981
	Flange dimensions as per ANSI B 16.5 and ASA 150
	Screwed dimensions as per ANSI B 1.20.1 and BS 21 / IS 554
	Face to face as per IS 9884 : 1981 Size available 1" / 1½" / 2" / 3" / 4"
BRANDS AVAILABLE	VEL / PUNEGAS



PRODUCT	1 Piece Design Ball Valve Gas Safe
PRODUCT CODE	1322 to 1325
SPECIFICATIONS	1 Piece Design Ball Valve in flanged end in WCB CS body in #150 or #300.
	Made as per design standard IS 9890 : 1981 full bore cast steel having
	Pressure rating BS 6755 Part I API 598 IS 6157 : 1981
	Flange dimensions as per ANSI B 16.5 and ASA 150 or 300
	Face to face as per IS 9884 : 1981
	Size available 1" / 1½" / 2" / 3"
BRANDS AVAILABLE	VEL / PUNEGAS



PRODUCT	2 Piece Design Screwed Ball Valve Full Bore
PRODUCT CODE	1270 to 1274
SPECIFICATIONS	2 Piece Design Ball Valve in screwed WCB CS body or SS CF8 body.
	Made as per design standard IS 9890 : 1981 full bore investment casting
	having pressure rating BS 6755 Part I API 598 IS 6157 : 1981
	Screwed dimensions as per ANSI B 1.20.1 and BS 21 / IS 554
	Size available ½" / ¾" / 1" / 1½" / 2"
BRANDS AVAILABLE	VEL / PUNEGAS





PRODUCT	1 Piece Design Ball Valve Gas Safe
PRODUCT CODE	1322 UE to 1325 UE
SPECIFICATIONS	1 Piece Design Ball Valve in flanged end in WCB CS body in # 150 or # 300
	Made as per design standard IS 9890 : 1981 full bore cast steel having
	Pressure rating BS 6755 Part I API 598 IS 6157 : 1981
	Flange dimensions as per ANSI B 16.5 and ASA 150 or 300
	Face to face as per IS 9894 : 1981
	Size available 1" / 1½" / 2" / 3"
BRANDS AVAILABLE	UE



PRODUCT	2 Piece Design Screwed Ball Valve Full Bore
PRODUCT CODE	1270 UE to 1274 UE
SPECIFICATIONS	2 Piece Design Ball Valve in screwed WCB CS body or SS CF8 body..
	Made as per design standard IS 9890 : 1981 full bore investment casting
	having pressure rating BS 6755 Part I API 598 IS 6157 : 1981
	Screwed dimensions as per ANSI B 1.20.1 and BS 21 / IS 554
	Size available ½" / ¾" / 1" / 1½" / 2"
BRANDS AVAILABLE	UE



PRODUCT	1 Piece Design Ball Valve Gas Safe
PRODUCT CODE	1322A SG to 1324A SG
SPECIFICATIONS	1 Piece Design Ball Valve in flanged end in WCB CS body in # 150
	Made as per design standard IS 9890 : 1981 full bore cast steel having
	Pressure rating BS 6755 Part I API 598 IS 6157 : 1981
	Flange dimensions as per ANSI B 16.5 and ASA 150
	Face to face as per IS 9894 : 1981
	Size available 1" / 1½" / 2"
BRANDS AVAILABLE	SG



PRODUCT	2 Piece Design Screwed Ball Valve Full Bore
PRODUCT CODE	1270A SG to 1272A SG
SPECIFICATIONS	2 Piece Design Ball Valve in screwed WCB CS body
	Made as per design standard IS 9890 : 1981 full bore investment casting
	having pressure rating BS 6755 Part I API 598 IS 6157 : 1981
	Screwed dimensions as per ANSI B 1.20.1 and BS 21 / IS 554
	Size available ½" / ¾" / 1"
BRANDS AVAILABLE	SG

Needle valves are used as flow control devices.

We have two types of needle valves suitable for high pressure applications upto 250 Bar.

V-6104 has inlet and outlet at right angle and V-6105 has inlet outlet in straight line.

These needle valves can be used for all gases and the material of construction will depend on the type of gas.



PRODUCT	Needle Valve High Pressure Right Angle
PRODUCT CODE	V-6104
SPECIFICATIONS	Working Pressure 250 Bar
	Test Pressure 375 Bar
	End Connection ¼", ⅜" BSPM
	Medium CNG, Hydrogen, Air, Nitrogen, Oxygen, Acetylene, Argon
BRANDS AVAILABLE	VANAZ



PRODUCT	Needle Valve High Pressure Straight
PRODUCT CODE	V-6105
SPECIFICATIONS	Working Pressure 250 Bar
	Test Pressure 375 Bar
	End Connection ¼", ⅜, ½" BSPM
	Medium CNG, Hydrogen, Air, Nitrogen, Oxygen, Acetylene, Argon
BRANDS AVAILABLE	VANAZ

Line valves are used as isolation valve. V-4913 is having brass forged body and metallic seat.

It is suitable for high pressure application working pressure 250 Bar.



PRODUCT	Line Valve Female
PRODUCT CODE	V-4913 <i>II</i>
SPECIFICATIONS	Working Pressure 250 Bar
	Test Pressure 375 Bar
	End Connection 1" BSPF
	Medium CNG, Hydrogen, Air, Nitrogen, Oxygen, Carbon Dioxide
BRANDS AVAILABLE	VANAZ



PRODUCT	Line Valve Male
PRODUCT CODE	V-4913
SPECIFICATIONS	Working Pressure 250 Bar
	Test Pressure 375 Bar
	End Connection 1½" BSPM
	Medium CNG, Hydrogen, Air, Nitrogen, Oxygen, Acetylene, Argon
BRANDS AVAILABLE	VANAZ

These Valves conform to the Indian Standard Specifications IS:3224 (equivalent to BS:341, Part I) for Cylinder valves, in every respect.

All raw materials are fully tested for their chemical composition before being put to use. Simple construction & interchangeability of components make maintenance and repairs easy & fast. All valve bodies are of forged construction, duly heat treated stress relieved. The valve bodies have high strength, superior wear resistance and High impact values. We perform rigorous quality checks. Forged valve blanks are tested from every lot for actual physical values before machining. Each valve is tested at it's full working pressure before despatch. All valves are soft to work because of good surface finish.

Oxygen - Wheel Type Oxygen



Hydrogen Nitrogen Vertical O₂ valve



PRODUCT	High Pressure Cylinder Valve for Industrial Gas	
PRODUCT CODE	V-6601 / 6613 / 0107 / 6603 / 4003	
SPECIFICATIONS	Name of Gas	Oxygen / Acetylene / Hydrogen / Argon / Nitrogen
	Test Pressure	161 Bar
	Working Pressure	Oxygen / Hydrogen 161 Kg/cm ³ / Acetylene 30 kg/cm ²
	Outlet Thread Oxygen	Internal 5/8" BSP Outlet No.3 as per IS:3224:1979
	Acetylene & Hydrogen	Internal 5/8" BSP L.H. Outlet No.2 as per IS:3224:1979
BRANDS AVAILABLE	VANAZ	

CO₂

CO₂ - Wheel Type



PRODUCT	High Pressure Cylinder Valve for Industrial Gas	
PRODUCT CODE	V-1117	
SPECIFICATIONS	Name of Gas	Carbon Dioxide
	Test Pressure	155 Bar
	Working Pressure	105 Bar
	Outlet Thread	External 21.8 mm x 1.81 4 pitch Whitworth
	Profile Outlet	No.7 as per IS:3224:1979
BRANDS AVAILABLE	VANAZ	

Ammonia



PRODUCT	High Pressure Cylinder Valve for Industrial Gas	
PRODUCT CODE	TEKNO NH3	
SPECIFICATIONS	Name of Gas	Ammonia
	Test Pressure	65 Bar
	Working Pressure	45 Bar
	Outlet Thread	As per IS:3224:1979
	End Connection	1/2" BSPF
BRANDS AVAILABLE	TEKNO	

Industrial Gas Cylinder Valves are also available in Tekno make with 250 Bar rating As per IS:3224:1979



VANAZ

FISHING BOAT, GENERATOR, AUTORICKSHAW, CNG / LPG PRODUCTS

LPG/CNG KIT SPARE PARTS FOR BAJAJ, TVS, APE 3 WHEELERS

For information please contact:

+91 7030713366 or email : domestic@mahamulti.com

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Pressure Gauges & Gas Trains



PRODUCT	Pressure Gauges
PRODUCT CODE	1401 to 1404
SPECIFICATIONS	Available in various pressure rating to suit customers requirements,
	made in SS body with 3/8" bottom inlet
	Plese specify pressure rating and with or without glycerine.
BRANDS AVAILABLE	ITEC



PRODUCT	Pressure Gauges
PRODUCT CODE	1401 to 1404
SPECIFICATIONS	Available in various pressure rating to suit customers requirements,
	made in SS body with 3/8" bottom inlet
	Plese specify pressure rating and with or without glycerine.
BRANDS AVAILABLE	PUNEGAS



PRODUCT	Pressure Gauges
PRODUCT CODE	1401 to 1404
SPECIFICATIONS	Available in various pressure rating to suit customers requirements,
	made in SS body with 3/8" bottom inlet
	Plese specify pressure rating and with or without glycerine.
BRANDS AVAILABLE	UE



PRODUCT	Siphon for Pressure Gauges
PRODUCT CODE	1401 A
SPECIFICATIONS	SS seamless tube siphon for pressure gauges in
	3/8" male x 3/8" female end connections
BRANDS AVAILABLE	ITEC



PRODUCT	Pushcock Button Holder For Pressure Gauge
PRODUCT CODE	1406
SPECIFICATIONS	Pressure gauges are avaialble with or without siphon, isolation needle valves
	or push type valves.
	Size 3/8" BSPF
BRANDS AVAILABLE	PUNEGAS

INTRODUCTION:

Pressure-reducing gas Trains are ideal for industrial and commercial applications, supplying gas to furnaces, burners, and other applications. A balancing system enables the regulator to control gas pressure accurately for maximum combustion efficiency despite varying inlet pressure.

CONTROL APPLICATION:

For an election, it is necessary to identify the function of the regulator. The answer to this question defines which of the following regulators is required: Pressure-Reducing Regulator, Back Pressure Regulator, Pressure Relief Valve, Vacuum Regulator

CAPACITY DETERMINATION:

The required flow capacity influences and determines the following: Size of the regulator, Drifice size, style of regulator (direct-operated or piston operated)

PRESSURE REGULATOR SELECTION:

Based on the application, the pressure-reducing regulator is designed. Every application calls for a pressure-reducing regulator based on the parameters mentioned as outlet pressure to be maintained. Inlet pressure, capacity required, shut-off capability required, Process media, Process media temperature, Required pressure pipe size end connection, material for construction

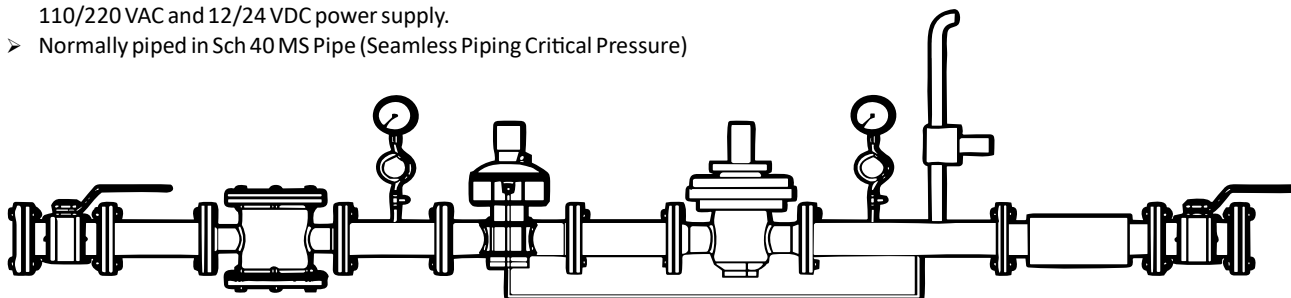
OUTLET PRESSURE TO BE MAINTAINED:

The first parameter is to define the required outlet pressure. When the outlet pressure is known, we can ascertain the requirement for the under-mentioned Spring Required Casing pressure rating, body outlet rating, orifice rating and size, regulator size.



GAS TRAIN FOR PRESSURE REDUCING SYSTEM

- Gas trains form an essential part of any industry using flammable gases like LPG. Propane, natural gas, etc. for its combustion equipment.
- These gases are fast replacing conventional oil-fired equipment in India and other upcoming Asian countries due to their eco-friendly and efficient burning characteristics. However, the use of these gases, unless exercised with due care for safety, could lead to accidents causing severe damage to plants and personnel.
- Gas trains are pre-piped trains, combining various safety and monitoring instruments like shut- off valves, pressure regulators, relief valves, pressure switches, vent valves, pressure gauges etc.
- Through simple-looking equipment, an incorrectly designed gas train often creates performance-related problems due to improper sizing and selection of components. Such incorrectly sized gas trains often lead to inefficient combustion processes, which are nuisances. shutdowns, and most important, unsafe operation.
- We manufacture customized pre-piped gas trains at our Pune (India) factory to suit the customer's requirements after carefully studying there requirements of the combustion process at the customer's plant. These trains are manufactured as per the guidelines in the stringent standards of safety laid down by Indian, European, and North American countries.
- The selection of each and every component and design of the train is done by our designing department. Due care is taken while manufacturing to ensure the total safety of the equipment. Necessary allowances for pressure losses are computed in order to achieve the desired flow of the fuel gas at adequate pressure at the outlet of the train.
- Available in 1/2 to 4 line sizes to handle high volumes of fuel gases
- Designed in line with NFPA 86 guidelines for single or multi-burner installation
- Pre-piped and mounted on a fabricated skid. Easy installation.
- The user's job is limited to connecting the burners to the end connections of the gas train.
- Gas train components like solenoid valves, filters, regulators, and pressure switches available in screwed or flanged end connections.
- All the safety components confirm the most stringent global directives for gas and electrical equipment Components available in 110/220 VAC and 12/24 VDC power supply.
- Normally piped in Sch 40 MS Pipe (Seamless Piping Critical Pressure)



Application

Gas Train are suitable to use in

- ◆ Heating Application
- ◆ Steam Boilers
- ◆ Powder Coating
- ◆ Industrial Furnaces
- ◆ Surface Coating
- ◆ Paint Baking

These Gas Trains are installed at various stages of the Gas Pipeline

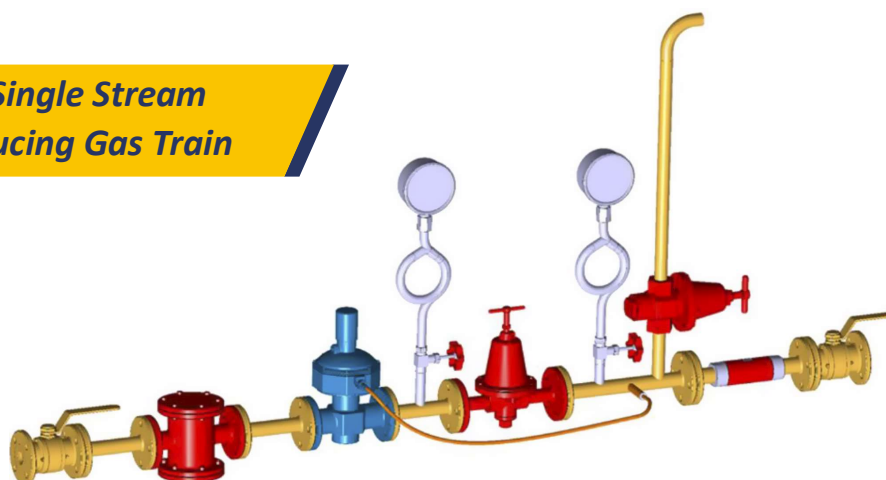
- 1st Stage Pressure Reducing Gas Train System.
- 2nd Stage Pressure Reducing Gas Train System.
- 3rd Stage Pressure Reducing Gas Train System.

1st Stage Pressure Reducing Gas Train System

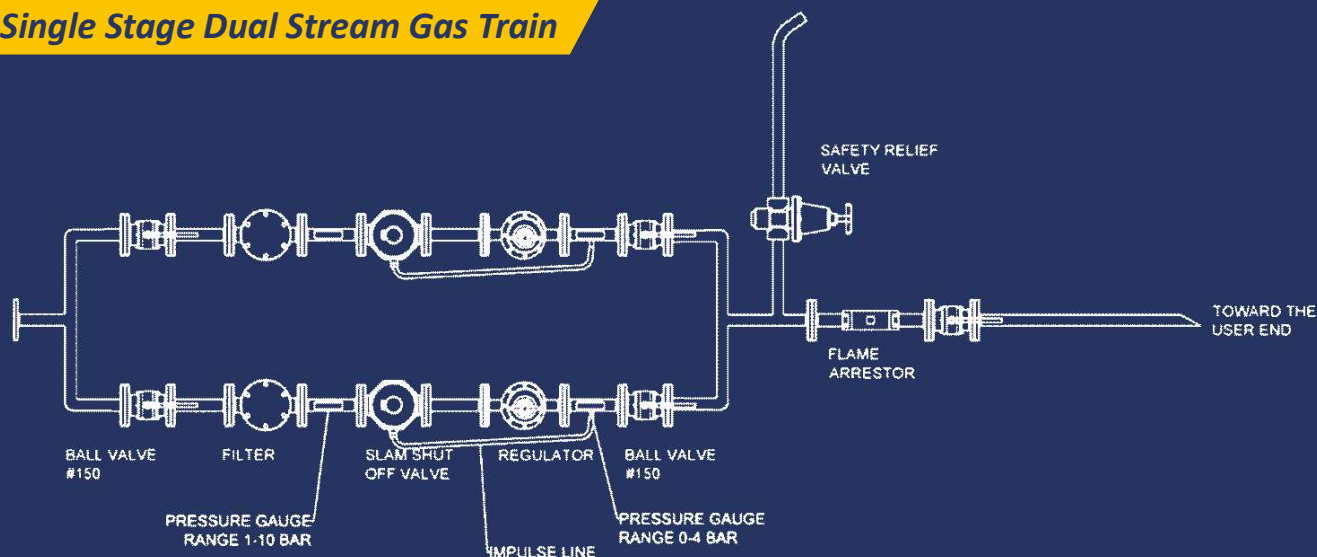
SR No.	SKU (Part Code)	Inlet Pressure Range	Outlet Pressure Range	Flow Rate	Gas	Size
1	HGT15L	1 - 17 bar	0.5 - 2 bar	5 - 30 Kg/Hr	LPG	15 mm
2	HGT15N			5 - 15 NM ³ /Hr	NG	15 mm
3	HGT25L	1 - 17 bar	0.5 - 4 bar	15 - 100 Kg/Hr	LPG	25 mm
4	HGT25N			15 - 50 NM ³ /Hr	NG	25 mm
5	HGT40L	1 - 17 bar	0.5 - 4 bar	100 - 250 Kg/Hr	LPG	40 mm
6	HGT40N			50 - 120 NM ³ /Hr	NG	40 mm
7	HGT50L	1 - 17 bar	0.5 - 4 bar	250 - 450 Kg/Hr	LPG	50 mm
8	HGT50N			120 - 180 NM ³ /Hr	NG	50 mm
9	HGT80L	1 - 17 bar	0.5 - 4 bar	450 - 1000 Kg/Hr	LPG	80 mm
10	HGT80N			180 - 600 NM ³ /Hr	NG	80 mm
11	HGT100L	1 - 17 bar	0.5 - 4 bar	1000 - 2000 Kg/hr	LPG	100 mm
12	HGT100N			600 - 1200 NM ³ /Hr	NG	100 mm

*** The above Gas Trains can be pre-piped in Dual Stream (One Working & One Standby) also

Single Stage Single Stream Pressure Reducing Gas Train



Single Stage Dual Stream Gas Train



2nd Stage & 3rd Stage Pressure Reducing Gas Train System

SR No.	SKU (Part Code)	Inlet Pressure Range	Outlet Pressure Range	Flow Rate	Gas	Size
1	GT15L	1 - 10 bar	30 - 500 mbar	5 - 15 Kg/Hr	LPG	15 mm
2	GT15N			5 - 10 NM ³ /Hr	NG	15 mm
3	GT25L	1 - 10 bar	30 - 300 mbar	15 - 35 Kg/Hr	LPG	25 mm
4	GT25N			10 - 25 NM ³ /Hr	NG	25 mm
5	GT40L	1 - 4 bar	50 - 300 mbar	35 - 120 Kg/Hr	LPG	40 mm
6	GT40N			25 - 80 NM ³ /Hr	NG	40 mm
7	GT50L	1 - 4 bar	50 - 300 mbar	120 - 160 Kg/Hr	LPG	50 mm
8	GT50N			80 - 120 NM ³ /Hr	NG	50 mm
9	GT80L	1 - 4 bar	50 - 300 mbar	160 - 600 Kg/Hr	LPG	80 mm
10	GT80N			120 - 400 NM ³ /Hr	NG	80 mm
11	GT100L	1 - 4 bar	50 - 300 mbar	600 - 1000 Kg/Hr	LPG	100 mm
12	GT100N			400 - 750 NM ³ /Hr	NG	100 mm

Low pressure reducing system with safety Solenoid valves along with gas meter & Bypass systems for automatic burners



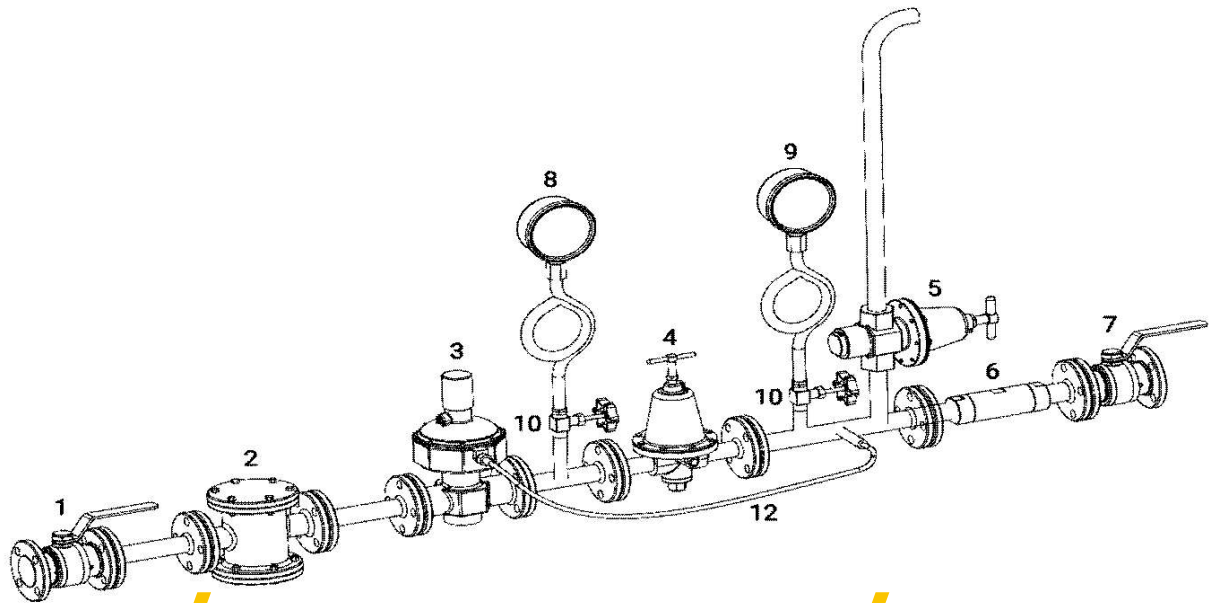
3rd Stage Gas Train



Low Pressure Gas Train



Skid Mounted Single Stage Single Stream (SSSS)



Features of Gas Train Components

1. **Inlet Ball Valve:** To isolate the system from main supply or to isolate the inlet side of the Gas Train, the ball valve is being used.
2. **Filter:** A filter protects the rest of station from any debris or dust that may be carried with gas stream. Debris may consist of parts accidentally left in the pipe during construction. It could also result from swarf from drilling holes and taps, welding bends, sand from construction, fine iron oxide dust etc.
3. **Safety Slam Shutoff Valve:** This normally remains open. If the outlet pressure of the regulator rises than the permissible limit, the safety shutoff valve senses it via the impulse line and instantly shuts off the supply to the downstream system.
4. **Pressure Regulator:** Pressure regulator is a device, which design to maintain downstream pressure at certain quantity of gas, irrespective of variation in upstream pressure for maximum to minimum limit. To reduce the pressure from upstream to downstream, spring loaded or pilot operated pressure regulators are used.
5. **Safety Relief Valve:** A slight weeping of the pressure regulator result in increasing the downstream pressure to dangerous levels, such creep pressure is blown off through safety relief valve.
6. **Flame Arrestor:** Flame arrestors are used to arrest the flame from reaching the highly dense area of fuel, in case of backfire and thus avoid accident and explosions. The flame arrestor has an in built non – return valve.
7. **Outlet Ball Valve:** To isolate the system from main supply or to isolate the outlet side of the Gas Train, the ball valve is being used.
8. **Upstream Pressure gauge:** To monitor upstream pressure of regulator, the pressure gauges are installed.
9. **Downstream Pressure gauge:** To monitor downstream pressure of regulator, the pressure gauges are installed.
10. **Isolation Valve:** is provided with each pressure gauge for easy replacement of pressure gauges in case of failure.



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Leakage Detection Devices

Gas Leak Detection System for Commercial and Industrial Gas Installations

In a world driven by the constant need for efficiency and safety, the importance of gas leak detection systems cannot be overstated. These systems are pivotal in ensuring the safety and reliability of gas installations in a variety of settings, ranging from industrial complexes to residential kitchens.

Why Choose Gas Leak Detection System?

Gas Leak Detection System is engineered with precision and built to detect even the most minor gas leaks, ensuring timely intervention to prevent potentially catastrophic incidents. Here's why system stands out:

- 1. Reliability:** Trust in a system that consistently delivers accurate results, providing real-time alerts and alarms when gas leaks are detected.
- 2. Safety:** Your safety is our priority. Our system is designed to safeguard lives and property by swiftly identifying gas leaks and mitigating risks.
- 3. Ease of Use:** Our user-friendly design ensures that anyone can operate our Gas Leak Detection System with minimal training. This makes it an ideal choice for both industrial and commercial installations.
- 4. Versatility:** Our system finds application across a wide

range of settings, from industrial facilities to residential kitchens. Whether you manage a multi-storied apartment complex, a bustling restaurant, or a sprawling production plant, our system has you covered.

Applications of Gas Leak Detection System

- 1. Bulk Storage Yards:** Safeguard large-scale gas storage facilities by continuously monitoring for leaks, ensuring the safety of personnel and preventing costly accidents.
- 2. Gas Manifolds:** In industrial plants, our system acts as an early warning system for gas leaks around manifolds, enabling quick response and minimizing disruptions in production.
- 3. Production Areas in Industrial Plants:** Maintain a safe working environment for your employees by constantly monitoring gas levels in production areas, reducing the risk of accidents.
- 4. Piped Gas Facilities in Multi-Storied Apartments:** Enhance the safety of residents in multi-storied buildings with piped gas facilities by providing round-the-clock monitoring of gas lines.
- 5. Cooking Areas:** Kitchens are potential sources of gas leaks in homes, hotels, canteens, and food courts. Our system ensures the safety of cooking areas by promptly detecting and alerting users to gas leaks.



GV 09 PLUS

Detection Gas	LPG/PNG/H2/C2CH2/NH3
Range	0-100% LEL/0-350PPM
Transmission Distance	850m
Alarm Point	10%VOL
Output Signal	Digital RS485 Communication
Detection Way	Diffusion
Response Time	≤60s
Cable Specification	Four wire system RVVP4*1.0mm ²
Working Temp	-10°C~60°C
Sensor Type	Pellistor / Electrochemical
Power Supply	DC24V
Production Grade	Exd IIC T6 Gb
Protection Grade	IP67



GV 108

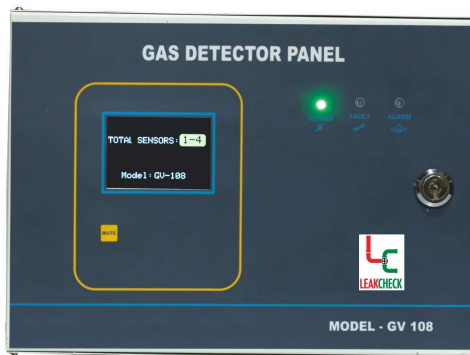
Detection Gas	ALL GASES
Range	0-100% VOL
Transmission Distance	850m
Alarm Point	Low Alarm:10%LEL, High Alarm:30%LEL
Output Signal	Digital RS485 Communication
Detection Way	Diffusion
Response Time	≤60s
Cable Specification	Four wire system RVVP4*1.0mm ²
Working Temp	-10°C~60°C
Sensor Type	Pellistor/Electrochemical
Production Grade	Exd IIC T6 Gb
Protection Grade	IP67



GV 09

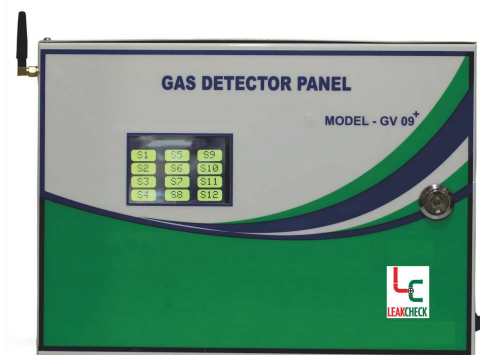
Detection Gas	LPG/PNG/H2/C2CH2
Range	0-100% LEL
Transmission Distance	80m
Alarm Point	10%LEL
Output Signal	Analog Switching Signal
Detection Way	Diffusion
Response Time	≤60s
Cable Specification	Four wire system RVVP4*1.0mm ²
Working Temp	-10°C~60°C
Sensor Type	Pellistor
Production Grade	Exd IIC T6 Gb
Protection Grade	IP67

PANEL GV 108



- 60 Addressable Detectors
- Colour LCD Display
- Single 4 Core Sensor network
- BMS Output - Modbus
- Intelligent Fault Indicator
- Mute Switch
- Highly Audible Siren
- Optional - GSM for SMS Alert

PANEL GV 09 PLUS



- 12 Addressable Detectors
- Colour LCD Display
- Single 4 Core Sensor network
- BMS Output - Modbus
- Intelligent Fault Indicator
- Mute Switch
- Highly Audible Siren
- Optional - GSM for SMS Alert

PANEL GV 09 PRO



- Graphic LCD Display
- 4 Core Sensor network
- Fault Indicator
- Mute Switch
- Highly Audible Siren
- Available in 2 / 4 / 6 / 8 Channel Panel

PANEL GV 09



- Dual LED Display Indication
- 4 Core Sensor network
- Highly Audible Siren
- Available - 1 to 12 Channel Panel



PRODUCT	Stand Alone Gas Leak Detector for LPG / Natural Gas
PRODUCT CODE	1399
SPECIFICATIONS	Stand Alone Gas Leak Detector Ready to plug and play. Model : GZW - 1
	Features: Can detect even the slightest of gas leak and set the alarm immediately.
	Area where it can be installed: Gas Manifolds, Production areas in Industrial plants,
	Cooking areas like Kitchens in Hotels, Industries canteens and Food courts, Malls etc.
	Enclosure type: Flameproof PESO approved
	Note: Hooter will sound alarm in case of gas leakage near gas sensor only.
	Area covered 1 sq. mtr & Sound above 50 dB.
	Power Supply : 230 V AC power supply Single Phase
BRANDS AVAILABLE	GAZWARN



PRODUCT	Portable Leak Detector
PRODUCT CODE	1398
SPECIFICATIONS	BH-90A Portable Single Gas Detector can make continuous detection to combustible gases.
	Ideal for production or maintenance teams to carry and check in leakages areas which
	are not accessible. The detector, adopting excellent-quality sensor, make detection in
	the way of natural diffusion. It has good sensitivity and reproducibility. The detector adopts
	Embedded MCU controller, easy to operate.
	Combustible Gas like Methane, LPG, Propane, Butane etc.
	Response time < 60s Accuracy $\pm 5\%$ F.S
	Sensor Life 10000 hours
BRANDS AVAILABLE	BOSEAN



PRODUCT	Domestic Leak Detector
PRODUCT CODE	1397
SPECIFICATIONS	Gas detector for residences. It is designed to detect the concentration of combustible gas.
	GAS GUARD, a simple electronic device for early warning of cooking gas leaks.
	This microprocessor based, low priced, wall mounted device is specially designed for
	domestic application and can be fitted anywhere near the source of gas.
	Response time is less than 10 sec. One minute initial warm up delay. Long Sensor Life.
	Visible & audible alarm. Buzzer Sound level 90 dB to 30cm. Safe Alarm Point -10% LEL*
	of Methane i.e. 1500ppm. AUX. output for external buzzer. Alarm Mode - Latched or
	Unlatched (by default Latched) works on 230V AC, 50Hz.
BRANDS AVAILABLE	GAS GUARD / GASVIGIL

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Pigtails & Hoses



PRODUCT	Copper Burner Pigtails
PRODUCT CODE	1190 to 1197
SPECIFICATIONS	Available in length size 12" - 18" - 24" - 36" - 48" - 60". For 3/8" BSPF connections.
	8 mm Copper tube with forged brass bullnoze and nut.
BRANDS AVAILABLE	UE



PRODUCT	Copper Cylinder Pigtails
PRODUCT CODE	1200 / 1201 / 1202
SPECIFICATIONS	For MECV Connections.
	8 mm Copper tube with forged brass bullnoze and nut.
	In various lengths
	Used for LPG and Industrial Gases.
BRANDS AVAILABLE	UE



PRODUCT	Flexible Burner Pigtails
PRODUCT CODE	1210 to 1214
SPECIFICATIONS	Available in 3/8" BSPF - Length 24", 48", 72" & 120" or as per customer requirements. These pigtails are available in SS braiding, Suraksha, SAE 100R1 or 8 mm Hose. All these pigtails are available with forged brass end fitting with brass crimping or MS fittings with MS hydraulic crimping
	Working pressure Orange 10 bar, Black 25 bar
BRANDS AVAILABLE	PUNE GAS / UE SURAKSHA / SUPERHOZE



PRODUCT	Flexible Cylinder Pigtails
PRODUCT CODE	1220 to 1225
SPECIFICATIONS	Available in 24", 36" and 60" or as per customer's requirement.
	Used in cylinder connection to get more flexibility between steady manifold & cylinder. This pigtail is specially used in railway Pantry Car, Mobile Canteen Van etc. Also available with one side 3/8" BSPF and other side FECV. These pigtails are available in SS Braiding, Suraksha, SAE 100R1 8 mm Hose
	All these pigtails are available with forged brass end fittings with brass crimping or MS fittings with MS hydraulic crimping.
	Working pressure Orange 10 bar, Black 25 bar
BRANDS AVAILABLE	PUNE GAS / UE SURAKSHA / SUPERHOZE



BRILON

Product Code 1240



GASGUARD

Product Code 1241 G



DUNLOP

Product Code 1241

Liquid off-take hoses 1m Working pressure 160 bar

Heat resistant
flanged end hoses



R2 Industrial Gas
Hose High Pressure

PRODUCT	Industrial Gas Hoses
PRODUCT CODE	1230 to 1234 & 1245
SPECIFICATIONS	Manufactured in Rayon or wire braided hose with standard end fittings as per customer's specifications. Stainless steel braided Teflon hoses for ammonia and Carbon dioxide. Stainless steel or G.I. braided flexible high pressure hoses for industrial gases. Internal tube could be of teflon, nylon or rubber in various forms for all gases.
TEMPERATURE RANGE	For Hydraulic Oil Lines: -40°C to 100°C For water emulsions (a) Pressure Lines: Max. Temp. Limit + 93°C (b) Return Lines: Max.Temp. Limit + 82°C
	We also manufacture all types of pneumatic hoses with different connections in different grades and sizes as per requirements up to 2" size and pressure of 250 kg/cm ²
BRANDS AVAILABLE	SURAKSHA / ALFA GOMMA / SUPERHOZE / DUNLOP / PUNEGAS

JACK Hose ¼" or ½" BSPF 1 m
Working pressure 400 bar
Product Code 1245



400 bar/6000 psi pressure rating, thermo plastic hose for industrial gases in various end fittings and lengths.

Low Pressure ½" / ¾" / 1"
Vapour Hose for automatic burners
Working pressure 10 bar
Product Code 1230 to 1236



PRODUCT	Low Pressure Hoses For Imported Automatic Burners.
PRODUCT CODE	1230 to 1236
SPECIFICATIONS	Made as per customer's specifications in SS braiding with Rayon rubber hose and end fittings in brass or MS or SS fittings. Available in various lengths Please specify length and end fittings
BRANDS AVAILABLE	SE

We can manufacture and deliver all kinds of hoses in a variety of materials, from ¼" size to 2" from pressures of 100 mbar to 250 bar, with variety of end fittings in MS, Brass or SS.

2 meter, ½" Vapour Hose
for 450 kg cylinders
Working pressure 160 bar
Product Code 1511



2 meter, ¾" Liquid Hose
for 450 kg cylinders
Working pressure 160 bar
Product Code 1504



BRAND : BRILON / SUPERHOZE

LOT HOSE
FOR 450 KG CYLINDER

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**Manifold
Fittings
Industrial
Gases**



PRODUCT	Industrial Gas Manifolds
PRODUCT CODE	1161 to 1167 A
SPECIFICATIONS	For Industrial Gases like Oxygen, Hydrogen, Nitrogen, Argon, Carbon dioxide, Helium, Ammonia etc. Suitable for any number of cylinders to be used at a time. Center distance between the consecutive lugs is 300 mm (12"), 2 x 2, 3 x 3, 4 x 4, 5 x 5, 6 x 6, 7 x 7, 8 x 8 etc.
	We manufacture manifolds for all Industrial Gases in stainless steel schedule 80 pipe and forged blocks.
	As depicted here to withstand pressure upto 400 bar
BRANDS AVAILABLE	PUNEGAS



PRODUCT	Industrial Gas Manifolds
PRODUCT CODE	1161 to 1167 A
SPECIFICATIONS	For Industrial Gases like Oxygen, Hydrogen, Nitrogen, Argon, Carbon dioxide, Helium, Ammonia etc. Suitable for any number of cylinders to be used at a time. Center distance between the consecutive lugs is 300 mm (12"), 2 x 2, 3 x 3, 4 x 4, 5 x 5, 6 x 6, 7 x 7, 8 x 8 etc.
	We manufacture manifolds for all Industrial Gases in stainless steel schedule 80 pipe and forged blocks.
	As depicted here to withstand pressure upto 400 bar
BRANDS AVAILABLE	PUNEGAS



PRODUCT	Manifold Fittings - Nuts & Nipples
PRODUCT CODE	1204
SPECIFICATIONS	Brass forged nut and nipple
	Working Pressure 300 bar
	For all Industrial Gases
BRANDS AVAILABLE	EMBROS



PRODUCT	Industrial Gas Hose
PRODUCT CODE	1245
SPECIFICATIONS	400 bar / 6000 psi pressure rating thermo plastic hose for Industrial Gases in various fittings and lengths.
BRANDS AVAILABLE	JACK HOSE /SE



PRODUCT	High Pressure NRV
PRODUCT CODE	1419
SPECIFICATIONS	Non return valve for Industrial Gases with 6000 psi capacity, 1/4" M x F suited to mount on manifolds
	SS body
BRANDS AVAILABLE	UE



120-D-LPG

PRODUCT : Cylinder Regulator



HOX - 230



DU - CO₂



RSG 43 S



49 - N₂

DOUBLE STAGE DOUBLE GAUGES OXYGEN REG IP : 200 BAR OP : 10 BAR FLOW 60 NM ³ /HR
SINGLE STAGE DOUBLE GAUGES OXYGEN REG. IP: 200 BAR OP: 8 BAR FLOW 55 NM ³ /HR
DOUBLE STAGE DOUBLE GAUGES DURABLE SERIES SS DIAPHRAGM OR REG
IP: 230 BAR OP: 12 BAR FLOW 70 NM ³ /HR
SINGLE STAGE DOUBLE GAUGES HIGH FLOW OXYGEN REG IP: 200 BAR OP: 14 BAR FLOW 85 NM ³ /HR
DOUBLE STAGE DOUBLE GAUGES NITROGEN REG IP: 200 BAR OP: 10 BAR FLOW 55 NM ³ /HR
DOUBLE STAGE DOUBLE GAUGES DURABLE SERIES SS DIAPHRAGM N2 REG
IP: 230 BAR OP: 12 BAR FLOW 60 NM ³ /HR
SINGLE STAGE DOUBLE GAUGES NITROGEN REG IP: 200 BAR OP: 8 BAR FLOW 50 NM ³ /HR
DOUBLE STAGE DOUBLE GAUGES HYDROGEN REG IP: 200 BAR OP: 8 BAR FLOW 55 NM ³ /HR
DOUBLE STAGE DOUBLE GAUGES DURABLE SERIES SS DIAPHRAGM H2 REG
IP: 230 BAR OP: 12 BAR FLOW 70 NM ³ /HR
SINGLE STAGE DOUBLE GAUGES HYDROGEN REG IP: 200 BAR OP: 8 BAR FLOW 50 NM ³ /HR
DOUBLE STAGE DOUBLE GAUGES HELIUM REG IP: 200 BAR OP: 8 BAR FLOW 55 NM ³ /HR
DOUBLE STAGE DOUBLE GAUGES DURABLE SERIES SS DIAPHRAGM HELIUM REG
IP: 230 BAR OP: 12 BAR FLOW 60 NM ³ /HR
SINGLE STAGE DOUBLE GAUGES HELIUM REG IP: 200 BAR OP: 8 BAR FLOW 50 NM ³ /HR
DOUBLE STAGE DOUBLE GAUGES CARBON DIOXIDE REG IP: 200 BAR OP: 10 BAR FLOW 8 NM ³ /HR
DOUBLE STAGE DOUBLE GAUGES DURABLE SERIES SS DIAPHRAGM CO2 REG
IP: 200 BAR OP: 10 BAR FLOW 10 NM ³ /HR
DOUBLE STAGE DOUBLE GAUGES ARGON REG IP: 200 BAR OP: 10 BAR FLOW 40 NM ³ /HR
DOUBLE STAGE DOUBLE GAUGES DURABLE SERIES SS DIAPHRAGM ARGON REG
IP: 200 BAR OP: 10 BAR FLOW 60 NM ³ /HR
DOUBLE STAGE DOUBLE GAUGES ACETYLENE REG IP: 25 BAR OP: 1 BAR FLOW 15 NM ³ /HR
SINGLE STAGE LPG REG IP : 17 BAR OP : 14 BAR CYLINDER MOUNTED
SINGLE STAGE SINGLE GAUGE LPG REG IP : 17 BAR OP : 14 BAR CYLINDER MOUNTED
SINGLE STAGE DOUBLE GAUGE HIGH FLOW LPG REG IP : 25 BAR OP : 1.5 BAR
FLOW 2.5 NM ³ /HR INLET SIZE 1/2" LH OUTLET SIZE 3/8" BSPM

AVAILABLE FOR ALL INDUSTRIAL GASES

PRODUCT CODE	PRODUCT CODE
49-OX	100-D-HL
100-D-OX	49-CO2
HOX-230	DU-CO2
HOX-12	49-AR
49-N2	DU-AR
DU-N2	49-AC
100-D-N2	HAC-20
49-H2	29-L
DU-H2	29-LW
100-D-H2	120-D-LPG
49-HL	120-D-PR
DU-HL	

BRANDS AVAILABLE : HMP

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Gas Flow Meters



PRODUCT	Domestic Diaphragm Gas Meter
PRODUCT CODE	1490
SPECIFICATIONS	Maximum Pressure rating 500 mbar 2.5 m³ for LPG & Natural Gas with MID/type approval and EN1359 certificate.
	Use only for dry gas, no moisture or liquid should enter the meter.
BRANDS AVAILABLE	PIETRO FIORENTINI



PRODUCT	Commercial Diaphragm Gas Meter
PRODUCT CODE	1492 to 1496
SPECIFICATIONS	Model G4, G6, G10, G16, G 25
	Maximum Pressure rating 0.3 or 0.5 Bar. Flow 6,10,16, 25, and 40 Nm³/hr
	Use only for dry gas, no moisture or liquid should enter the meter.
BRANDS AVAILABLE	PIETRO FIORENTINI and SICONIA



PRODUCT	Commercial Diaphragm Gas Meter 2 Bar
PRODUCT CODE	1497 MI
SPECIFICATIONS	Model MG4
	Maximum Pressure rating 2 Bar. Flow 6 Nm³/hr for LPG & Natural Gas with MID/type approval and EN1359 certificate.
	Use only for dry gas, no moisture or liquid should enter the meter.
BRANDS AVAILABLE	SAGEMCOM SICONIA



PRODUCT	Commercial Cum Domestic Gas Meter (Jet Stream Technology)
PRODUCT CODE	1491
SPECIFICATIONS	Model 1.8, 3.2, 4
	Maximum Pressure rating 5 Bar.
	Available in two models with Bluetooth and Digital Display
	Connection ½" BSPM x ½" BSPF
	Flow upto 30 Kg/hr
	Use only for dry gas, no moisture or liquid should enter the meter.
BRANDS AVAILABLE	SMARTBOY by ELEHANT



PRODUCT	Rotary Gas Meter RABO series
PRODUCT CODE	1471A P to 1488A P
SPECIFICATIONS	Anodized extruded aluminum body gas meter for Industrial and commercial use.
	Flow capacity from 25 m ³ to 650 m ³
	Maximum pressure 16 bar
	Use only for dry gas, no moisture or liquid should enter the meter
	Available in DN 40, DN 50, DN 80, DN 100 Sizes.
BRANDS AVAILABLE	PIETRO FIORENTINI



PRODUCT	Turbine Type Meter for Dry Gas
PRODUCT CODE	1471 to 1488
SPECIFICATIONS	Cast steel gas meter for industrial and commercial use.
	Available in DN 40, DN 50, DN 80, DN 100 sizes.
	Flow capacity from 25 m ³ to 650 m ³
	Maximum pressure 6 bar
	Use only for dry gas, no moisture or liquid should enter the meter.
BRANDS AVAILABLE	PIETRO FIORENTINI



PRODUCT	ELECTRONIC VOLUME CORRECTOR
PRODUCT CODE	EVC
SPECIFICATIONS	Electronic volume corrector for gas volume conversion with temperature and pressure interface.
BRANDS AVAILABLE	PIETRO FIORENTINI



PRODUCT	ELECTRONIC VOLUME CORRECTOR
PRODUCT CODE	EVC - PLUM
SPECIFICATIONS	Electronic volume corrector for gas volume conversion with temperature and pressure interface.
	Model MAC BAT V
BRANDS AVAILABLE	PLUM



PRODUCT	Meter Regulator with UPSO Auto Reset
PRODUCT CODE	1470 S
SPECIFICATIONS	Aluminium die cast gas regulator with auto reset having 3/4" BSPF inlet and 3/4" BSPF outlet for domestic gas meters
	Inlet pressure 110 mbar
	Outlet pressure 28 mbar
BRANDS AVAILABLE	SANBRO



PRODUCT	Meter Regulator with UPSO Manual Reset
PRODUCT CODE	1470 M
SPECIFICATIONS	Aluminium die cast gas regulator with manual reset having 1/2" FECV inlet and 1/2" BSPM outlet for domestic gas meters
	Inlet pressure 7 bar
	Outlet pressure 28 mbar
BRANDS AVAILABLE	MONDIAL LP 150



PRODUCT	EN 331 BALL VALVE
PRODUCT CODE	1278 EN
SPECIFICATIONS	QT ball valves in 1/2" BSPF size
	QT ball valves use for gas meter applications made as per EN 331 standard in forged brass chrome plated body
	Approved by major CGD
	Can be manufacture in different models
BRANDS AVAILABLE	ASTRON



PRODUCT	Quarter Turn Ball Valves
PRODUCT CODE	1278 / 1279
SPECIFICATIONS	QT ball valves with various sizes in 1/2", 3/8" or 1/4" BSPF models
	inlet outlet
	QT ball valves with various sizes in 1/2", 3/8" or 1/4" BSPF models inlet and 8 mm nozzle outlet for gas meter applications made in forged brass chrome plated body as per EN 331
BRANDS AVAILABLE	SG



PRODUCT	Meter Adapter for Domestic Gas Meters
PRODUCT CODE	1446
SPECIFICATIONS	Brass forged elbow type meter adapters for inlet and outlet having ¾" BSPF inlet and ¾" BSPM or ¾" BSPF outlet
BRANDS AVAILABLE	UE



PRODUCT	Meter Adapter for Commercial / Domestic Gas Meters
PRODUCT CODE	1444
SPECIFICATIONS	Brass forged meter adapters for inlet and outlet having ¾" BSPF inlet and ¾" BSPM or ¾" BSPF or as per customer requirements. Also available in MS plated body.
BRANDS AVAILABLE	UE



PRODUCT	Meter Adapter for Commercial Gas Meters
PRODUCT CODE	1442 / 1443
SPECIFICATIONS	Nut nipple type male female meter adapters in various sizes to suit in MS or Brass Body commercial diaphragm type gas meters of different models
BRANDS AVAILABLE	UE



PRODUCT	Meter Adapter for Commercial Gas Meters
PRODUCT CODE	1441
SPECIFICATIONS	Nut nipple type male female meter adapters in various sizes to suit in plated MS body commercial diaphragm type gas meters of different models
BRANDS AVAILABLE	UE

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Gas Burners



PRODUCT	Infra Red Radiant Gas Burner
PRODUCT CODE	1100
SPECIFICATIONS	Gas operated Infra Red Radiant Burner for flameless heating applications upto 350°C in CI body and SS mesh.
	Size 4"x18"
	Consumption 0.65 Kg/hr
BRANDS AVAILABLE	UE



PRODUCT	Infra Red Radiant Gas Burner for Shawarma
PRODUCT CODE	1101
SPECIFICATIONS	Gas operated Infra Red Radiant Burner for flameless heating applications upto 350°C in MS body and SS mesh or ceramic plate for commercial equipment applications
	Size 8"x9"
	Consumption 0.35 Kg/hr
BRANDS AVAILABLE	UE



PRODUCT	Infra Red Radiant Gas Burner
PRODUCT CODE	1102
SPECIFICATIONS	Gas operated Infra Red Radiant Burner for flameless heating applications upto 350°C in MS body and SS mesh or ceramic plate.
	Size 1100 mm x 110 mm
	Consumption 0.65 Kg/hr
BRANDS AVAILABLE	UE



PRODUCT	Infra Red Radiant Gas Burner
PRODUCT CODE	1103
SPECIFICATIONS	Gas operated Infra Red Radiant Burner for flameless heating applications upto 350°C in MS body and SS mesh or ceramic plate.
	Size 6"x18"
	Consumption 0.80 Kg/hr
BRANDS AVAILABLE	UE



PRODUCT	Infra Red Radiant Gas Burner for Brooder
PRODUCT CODE	1104
SPECIFICATIONS	Gas operated Infra Red Radiant Burner for flameless heating applications upto 350°C in MS body and SS mesh or ceramic plate for Poultry use to heat environment in chicken pens.
	Size 4"x8"
	Consumption 0.35 Kg/hr
BRANDS AVAILABLE	UE

Ideal heavy duty burners for bulk frying and general heating requirements of industries like pharmaceuticals, canteens, caterers, hotels and bulk cooking. They produce a powerful torch type blue flame. Available in four capacities. Flame throwing burner with top exit.

These burners are recommended to be used at pressures of 320 to 490 gm/cm²(4.5 psig), however this may vary by +25%, the heat output being varied accordingly.

Connection ½" BSPM compression inlet. All these burners are manufactured as per IS standards 14612. These burners could be manufactured for piped natural gas or LP gas. Consumption of fuel will depend as per model and pressure injected.

For PNG Part No. T-35: 1022, T-50: 1023, T-78: 1024



PRODUCT	Torch type Burner T 22
PRODUCT CODE	1010
SPECIFICATIONS	Brass forged jet assembly with air intake coupling, ¾ BSPM inlet mounted below heavy duty CI head and SS mesh.
	Maximum working pressure 0.5 bar
	Consumption (Kg/hr) 1 to 1.25
BRANDS AVAILABLE	UE



PRODUCT	Torch type Burner T 35
PRODUCT CODE	1020
SPECIFICATIONS	Brass forged jet assembly with air intake coupling, ¾ BSPM inlet mounted below heavy duty CI head and SS mesh.
	Maximum working pressure 0.5 bar
	Consumption (Kg/hr) 1.58 to 1.97
BRANDS AVAILABLE	UE



PRODUCT	Torch type Burner T 50
PRODUCT CODE	1011
SPECIFICATIONS	Brass forged jet assembly with air intake coupling, ¾ BSPM inlet mounted below heavy duty CI head and SS mesh.
	Maximum working pressure 0.5 bar
	Consumption (Kg/hr) 2.24 to 2.50
BRANDS AVAILABLE	UE



PRODUCT	Torch type Burner T 78
PRODUCT CODE	1021
SPECIFICATIONS	Brass forged jet assembly with air intake coupling, ¾ BSPM inlet mounted below heavy duty CI head and SS mesh.
	Maximum working pressure 0.5 bar
	Consumption (Kg/hr) 3.56 to 4.20
BRANDS AVAILABLE	UE

Ideal heavy duty burners for bulk cooking and general heating requirements of industries like restaurants, hotels, caterers and bulk kitchens.

Produces lovely sunlower shaped flame. Available in four capacities. Flame throwing burner with side spreading type exit.

These burners are recommended to be used at pressures of 320 gm/cm² (4.5 psig), however this may be varied by +25%, the heat output being varied accordingly.

Connection " BSPM compression inlet. All these burners are manufactured as per IS standards 14612. These burners could be manufactured for piped natural gas or LP gas. Consumption of fuel will depend as per model and pressure injected.

For PNG Part No. M-35: 1032, M50: 1033, M-78: 1034



PRODUCT	Ring Type Burner M 22
PRODUCT CODE	1030
SPECIFICATIONS	Brass forged jet assembly with air intake coupling, ¾ BSPM inlet mounted
	below heavy duty spring loaded CI head
	Maximum working pressure 0.4 bar
	Consumption (Kg/hr) 1
BRANDS AVAILABLE	UE



PRODUCT	Ring Type Burner M 35
PRODUCT CODE	1040
SPECIFICATIONS	Brass forged jet assembly with air intake coupling, ¾ BSPM inlet mounted
	below heavy duty spring loaded CI head
	Maximum working pressure 0.4 bar
	Consumption (Kg/hr) 1.58
BRANDS AVAILABLE	UE



PRODUCT	Ring Type Burner M 50
PRODUCT CODE	1031
SPECIFICATIONS	Brass forged jet assembly with air intake coupling, ¾ BSPM inlet mounted
	below heavy duty spring loaded CI head
	Maximum working pressure 0.4 bar
	Consumption (Kg/hr) 2.24
BRANDS AVAILABLE	UE



PRODUCT	Ring Type Burner M 78
PRODUCT CODE	1041
SPECIFICATIONS	Brass forged jet assembly with air intake coupling, ¾ BSPM inlet mounted
	below heavy duty spring loaded CI head
	Maximum working pressure 0.4 bar
	Consumption (Kg/hr) 3.56
BRANDS AVAILABLE	UE

Ideal heavy duty burners for bulk multi purpose heating, cooking requirements of industries like restaurants, caterers, hoteliers and bulk kitchens. Produces a powerful lotus flower type blue flame from side and centre. Available in three capacities for multi purpose applications. These burners are recommended to be used at pressures of 320 to 490 gm/cm² (4.5 psig), however this may be varies by +25%, the heat output being varied accordingly.

Connection " BSPM compression inlet. All these burners are manufactured as per IS standards 14612. These burners could be manufactured for piped natural gas or LP gas. Consumption of fuel will depend as per model and pressure injected.

For PNG Part No. G-7: 1053, G-9: 1054, G-11: 1055



PRODUCT	Multi Flame Sunflower Burner G 7
PRODUCT CODE	1050
SPECIFICATIONS	Brass forged jet assembly with air intake coupling, ¾ BSPM inlet mounted
	below heavy duty 2 piece screwed CI head
	Maximum working pressure 0.5 bar
	Consumption (Kg/hr) 1.25
BRANDS AVAILABLE	UE



PRODUCT	Multi Flame Sunflower Burner G 9
PRODUCT CODE	1051
SPECIFICATIONS	Brass forged jet assembly with air intake coupling, ¾ BSPM inlet mounted
	below heavy duty 2 piece screwed CI head
	Maximum working pressure 0.5 bar
	Consumption (Kg/hr) 2.24
BRANDS AVAILABLE	UE



PRODUCT	Multi Flame Sunflower Burner G 11
PRODUCT CODE	1052
SPECIFICATIONS	Brass forged jet assembly with air intake coupling, ¾ BSPM inlet mounted
	below heavy duty 2 piece screwed CI head
	Maximum working pressure 0.5 bar
	Consumption (Kg/hr) 3.56
BRANDS AVAILABLE	UE

Ideal heavy duty burners for hot plate heating requirements of industries like catering, dosa restaurants, pan cakes and plate heating, produces a powerful ribbon type blue flame. Available in multi capacities with multi flame, multi purpose applications.

These burners are recommended to be used at pressures of 320 to 490 gm/cm² (4.5 psig), however this may be varies by +25%, the heat output being varied accordingly. Connection" BSPM compression inlet. Consumption of fuel will depend as per model and pressure injected.

These burners can be manufactured in different sizes, lengths, entry postions and flame thickmesses. All these burners are manufactured as per IS standards 14612. These burners can be manucatured for piped natural gas or LP gas.



PRODUCT	V Type Double Ribbon Burner	
PRODUCT CODE	1070 to 1075 RVBE	
SPECIFICATIONS	Bottom entry brass forged jet assembly with air intake coupling, ¾ BSPM inlet mounted with heavy duty fabricated box type combustion chamber having SS ribbon. Please specify length and entry	
	Maximum working pressure 0.3 bar	
	Consumption (RV-300 Burner 1ft long)	1.58 Kg/hr
	Consumption (RV-600 Burner 2ft long)	1.90 Kg/hr
BRANDS AVAILABLE	UE	



PRODUCT	V Type Double Ribbon Burner	
PRODUCT CODE	1070 to 1075 RVSE	
SPECIFICATIONS	Side entry brass forged jet assembly with air intake coupling, ¾ BSPM inlet mounted with heavy duty fabricated box type combustion chamber having SS ribbon. Please specify length and entry	
	Maximum working pressure 0.3 bar	
	Consumption (RV-900 Burner 3ft long)	1.90 Kg/hr
	Consumption (RV-1200 Burner 4ft long)	2.28 Kg/hr
BRANDS AVAILABLE	UE	

Apart from the standard models listed above this burner can be supplied in any ribbon length upto a maximum of 2100 mm (83 in.) Single Flame Ribbon Burner (L Type). We can also make them as per customers design and specifications



PRODUCT	L Type Single Ribbon Burner Box Type	
PRODUCT CODE	1070 to 1075 RLSE	
SPECIFICATIONS	Bottom or Side entry brass forged jet assembly with air intake coupling, ¾ BSPM inlet mounted with heavy duty fabricated box type combustion chamber having SS ribbon. Please specify length and entry	
	Maximum working pressure 0.3 bar	
	Consumption (RL-300 Burner 1ft long)	1 Kg/hr
BRANDS AVAILABLE	UE	



PRODUCT	L Type Single Ribbon Burner Pencil Type	
PRODUCT CODE	1070 to 1075 RLSE	
SPECIFICATIONS	Bottom or Side entry brass forged jet assembly with air intake coupling, ¾ BSPM inlet mounted with heavy duty fabricated pencil type combustion chamber having SS ribbon. Please specify length and entry	
	Maximum working pressure 0.3 bar	
	Consumption (RL-300 Burner 1ft long)	1 Kg/hr
BRANDS AVAILABLE	UE	



PRODUCT	W Type Triple Ribbon Burner
PRODUCT CODE	1070 to 1075 RWBE
SPECIFICATIONS	Bottom entry brass forged jet assembly with air intake coupling, ¾ BSPM inlet mounted with heavy duty fabricated box type combustion chamber having SS ribbon. Please specify length and entry
	Maximum working pressure 0.3 bar
	Consumption 3 Kg/hr
BRANDS AVAILABLE	UE



L Type



L Type



V Type



W Type

FISH TAIL BURNERS

Apart from the standard models listed above, these burners can be supplied in any ribbon length from 75 mm to 400 mm (3" to 15.75"). Side entry or bottom entry or made as per customers individual design and specifications. Connection ¾" BSPM compression inlet burners in this model of higher capacity can be supplied on demand



PRODUCT	Fish Tail Type Ribbon Burner
PRODUCT CODE	1060 to 1064
SPECIFICATIONS	Bottom entry brass forged jet assembly with air intake coupling, ¾ BSPM inlet mounted with heavy duty fabricated box type combustion chamber having SS ribbon. Please specify length and entry
	Maximum working pressure 0.3 bar
	Consumption (FT-75 Burner) 0.20 Kg/hr
	Consumption (FT-150 Burner) 0.45 Kg/hr
BRANDS AVAILABLE	UE



PRODUCT	Fish Tail Type Ribbon Burner
PRODUCT CODE	1060 to 1064
SPECIFICATIONS	Bottom entry brass forged jet assembly with air intake coupling, ¾ BSPM inlet mounted with heavy duty fabricated box type combustion chamber having SS ribbon. Please specify length and entry
	Maximum working pressure 0.3 bar
	Consumption (FT-230 Burner) 0.65 Kg/hr
	Consumption (FT-300 Burner) 0.90 Kg/hr
BRANDS AVAILABLE	UE

Ideal heavy duty burners for slow and constant heating over long periods. Available in various capacities for multi purpose applications. These burners are recommended to be used at pressures of 320 to 490 gm/cm² (4.5 psig), however this may be varies by +25%, the heat output being varied accordingly. Connection 3/4" BSPM compression inlet. All these burners are manufactured as per IS standards 14612. Consumption of fuel will depend as per model and pressure injected.



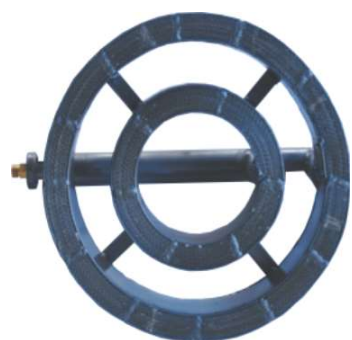
PRODUCT	Multi Ring Low Pressure Dum Biryani Burner In CI Body
PRODUCT CODE	1106 B / 1106 C
SPECIFICATIONS	Rated operating pressure 0.03 bar having individual inlet connections ¾ BSPM
	Available in 1, 2, 3, 4 rings with individual control.
	Consumption (3 Ring Burner) 1 Kg/hr
BRANDS AVAILABLE	UE



PRODUCT	Multi Ring Low Pressure Dum Biryani Burner In CI Body
PRODUCT CODE	1106
SPECIFICATIONS	Rated operating pressure 0.03 bar having individual inlet connections ¾ BSPM
	Available in 1, 2, 3, 4 rings with individual control.
	Consumption (2 Ring Burner) 0.65 Kg/hr
BRANDS AVAILABLE	UE



PRODUCT	Multi Ring Low Pressure Dum Biryani Burner in Metal Body
PRODUCT CODE	1110
SPECIFICATIONS	Rated operating pressure 1 bar having common inlet connection ¾ BSPM
	3 ring burner with common inlet
	Pressure 1 Bar (15 PSI)
	Consumption 3 Kg/hr (35000 kcal/hr)
BRANDS AVAILABLE	UE



PRODUCT	Multi Ring Low Pressure Dum Biryani Burner in Metal Body
PRODUCT CODE	1108
SPECIFICATIONS	Rated operating pressure 1 bar having common inlet connection ¾ BSPM
	2 ring burner with common inlet
	Pressure 1 Bar (15 PSI)
	Consumption 2.3 Kg/hr (26000 kcal/hr)
BRANDS AVAILABLE	UE



PRODUCT	Multi Ring Low Pressure Dum Biryani Burner in Metal Body
PRODUCT CODE	1109
SPECIFICATIONS	Rated operating pressure 1 bar having individual inlet connection ¾ BSPM
	3 ring burner with individual inlet
	Pressure 1 Bar (15 PSI)
	Consumption 3 Kg/hr (35000 kcal/hr)
BRANDS AVAILABLE	UE

Ideal heavy duty burners for bulk cooking and general heating requirements of industries like restaurants, hotels, caterers and bulk kitchens. Produces lovely carnation flower shaped flame. Available in four capacities. Flame throwing burner with side spreading type exit.

These burners are recommended to be used at pressures of 320 gm/cm² (4.5 psig), however this may be varied by +25%, the heat output being varied accordingly. Consumption of fuel will depend as per model and pressure injected.

Connection 3/8" BSPM compression inlet. All these burners are manufactured as per IS standards 14612.

These burners could be manufactured for piped natural gas or LP gas



PRODUCT	High Pressure Ring Type Bulk Heating Burner M 100
PRODUCT CODE	1042
SPECIFICATIONS	Side entry brass forged jet assembly with air intake coupling, 3/8 BSPM inlet mounted on pipe fitting with MS rings in copper or SS wire screwed atop elbow
	Maximum working pressure 0.5 bar
	Consumption 4.8 Kg/hr (65 Kw)
BRANDS AVAILABLE	UE



PRODUCT	High Pressure Ring Type Bulk Heating Burner M 140
PRODUCT CODE	1043
SPECIFICATIONS	Side entry brass forged jet assembly with air intake coupling, 3/8 BSPM inlet mounted on pipe fitting with MS rings in copper or SS wire screwed atop elbow
	Maximum working pressure 0.5 bar
	Consumption 6.03 Kg/hr (80 Kw)
BRANDS AVAILABLE	UE

**Model No. ST-2.5/ST-5/ST-10/ST-20/ST-40/ST-60/
ST-80/ST-160**
Part No. 1080/1081/1082/1083/1084/1085/1086/1087

These burners produce short turbulent oxidizing flames ideal for high intensity weld preheating, wherever hydrogen cracking is to be avoided. It can also be used as an immersion heater or a space heater where secondary air is low. These burners can be made in longer lengths.

**Model No.: S-2.5/S-5/S-10/S-20/S-40/S-60/S-80/
S-160**
Part No. 1090/1091/1092/1093/1094/1095/1096/1097

These burners produce long, reducing, low velocity flames for an excellent transfer efficiency in heating dies, moulds, plates, castings and large fabricated components. These burners can be made in longer lengths. Connection?" BSPM compression inlet. Burners in this model of higher capacity can be supplied on demand

Consumption of fuel will depend as per model and pressure injected.

ST TYPE

S TYPE

SPECIFICATIONS 'S' TYPE

Model No.	Length	Head Diameter	Working Pressure		Consumption per Hour		Rated Heat Output	
			Min.	Max.	Min.	Max.	Min.	Max.
S-20	210 mm	33 mm	0.14 Kg/cm ²	1.40 Kg/cm ²	0.68 Kg	1.89 Kg	7,560 kcal/hr	21,100 kcal/hr
	8.27 in	1.30 in	2.0 psig	20.0 psig	1.5 lbs	4.2 lbs	30,000 btu/hr	83,600 btu/hr
S-40	268 mm	43 mm	0.14 Kg/cm ²	1.40 Kg/cm ²	1.35 Kg	3.83 Kg	15,100 kcal/hr	42,840 kcal/hr
	10.55 in	1.70 in	2.0 psig	20.0 psig	3.0 lbs	8.5 lbs	60,000 btu/hr	1,70,000 btu/hr
S-60	300 mm	50 mm	0.14 Kg/cm ²	1.40 Kg/cm ²	2.00 Kg	5.70 Kg	22,650 kcal/hr	64,260 kcal/hr
	12.00 in	2.0 in	2.0 psig	20.0 psig	4.5 lbs	11.25 lbs	90,000 btu/hr	2,55,000 btu/hr
S-80	383 mm	60 mm	0.14 Kg/cm ²	1.40 Kg/cm ²	2.70 Kg	7.61 Kg	30,240 kcal/hr	84,670 kcal/hr
	15.08 in	2.36 in	2.0 psig	20.0 psig	6.0 lbs	16.9 lbs	1,20,000 btu/hr	3,36,000 btu/hr
S-160	483 mm	79 mm	0.14 Kg/cm ²	1.40 Kg/cm ²	5.40 Kg	15.21 Kg	60,500 kcal/hr	1,70,000 kcal/hr
	19.02 in	3.11 in	2.0 psig	20.0 psig	12.0 lbs	33.8 lbs	2,40,000 btu/hr	6,73,000 btu/hr



S Type
Long Thin Flame

SPECIFICATIONS FOR 'ST' TYPE

Model No.	Length	Head Diameter	Working Pressure		Consumption per Hour		Rated Heat Output	
			Min.	Max.	Min.	Max.	Min.	Max.
ST-2.5	149 mm	28 mm	0.14 Kg/cm ²	1.40 Kg/cm ²	0.09 Kg	0.24 Kg	1,000 kcal/hr	2,660 kcal/hr
	5.87 in	1.10 in	2.0 psig	20.0 psig	0.20 lbs	0.53 lbs	4,000 btu/hr	10,550 btu/hr
ST-5	169 mm	32 mm	0.14 Kg/cm ²	1.40 Kg/cm ²	0.17 Kg	0.48 Kg	1,855 kcal/hr	5,290 kcal/hr
	6.65 in	1.26 in	2.0 psig	20.0 psig	0.37 lbs	1.06 lbs	7,360 btu/hr	21,000 btu/hr
ST-10	204 mm	41 mm	0.14 Kg/cm ²	1.40 Kg/cm ²	0.34 Kg	0.95 Kg	3,750 kcal/hr	10,580 kcal/hr
	8.03 in	1.61 in	2.0 psig	20.0 psig	0.75 lbs	2.11 lbs	14,900 btu/hr	42,000 btu/hr
ST-20	250 mm	48 mm	0.14 Kg/cm ²	1.40 Kg/cm ²	0.68 Kg	1.89 Kg	7,560 kcal/hr	21,100 kcal/hr
	9.84 in	1.89 in	2.0 psig	20.0 psig	1.50 lbs	4.20 lbs	30,000 btu/hr	83,600 btu/hr
ST-40	318 mm	58 mm	0.14 Kg/cm ²	1.40 Kg/cm ²	1.35 Kg	3.83 Kg	15,100 kcal/hr	42,840 kcal/hr
	12.52 in	2.28 in	2.0 psig	20.0 psig	3.00 lbs	8.50 lbs	60,000 btu/hr	1,70,000 btu/hr
ST-60	300 mm	50 mm	0.14 Kg/cm ²	1.40 Kg/cm ²	2.00 Kg	5.70 Kg	22,650 kcal/hr	64,260 kcal/hr
	12.00 in	2.0 in	2.0 psig	20.0 psig	4.5 lbs	11.25 lbs	90,000 btu/hr	2,55,000 btu/hr
ST-80	438 mm	76 mm	0.14 Kg/cm ²	1.40 Kg/cm ²	2.70 Kg	7.61 Kg	30,250 kcal/hr	84,670 kcal/hr
	17.24 in	2.99 in	2.0 psig	20.0 psig	6.00 lbs	16.90 lbs	1,20,000 btu/hr	3,36,000 btu/hr
ST-160	540 mm	88 mm	0.14 Kg/cm ²	1.40 Kg/cm ²	5.40 Kg	15.21 Kg	60,500 kcal/hr	1,70,000 kcal/hr
	21.62 in	3.46 in	2.0 psig	20.0 psig	12.00 lbs	33.80 lbs	2,40,000 btu/hr	6,73,000 btu/hr



ST Type
Short Thick Flame

These burners could be manufactured for piped natural gas or LP gas



Delux Gas (Propane or Butane) Torches in compliance with regulations ISO EN 9012 Part No. 1550 A,B & C

Burner Head	Extension	Weight (g)	K Cal / hr	Kw	Kj / hr	Working Pressure (bar)	Max Consumption Kg/h
50	200/300/400	750/770/810	53550	62.27	224162	2 - 4	4.5
60	200/300/400	815/835/875	64260	74.72	268995	2 - 4	5.4
70	200/300/400	865/885/925	71400	83.02	298883	2 - 4	6.0

Instructions for correct use

Use exclusively in open air

Please make sure that flexible hose has been correctly connected rigorously in order before to the welding torch and then to gas cylinder

Ignition

1. Close both small tap and black knob clockwise
2. Open the main tap of the gas cylinder
3. Regulate Gas Pressure through the valve placed on the gas regulator (if provided)
4. Push button located on security valve (if supplied) until the hose is totally fulfilled with gas
5. Slightly open the black torch knob
6. Ignite the torch. Regulate the brass knob to obtain desired pilot flame.
7. Pull the lever to get maximum output (the black knob controls the lever gas flow)
8. In case of wind or inclement weather conditions, increase the pilot flame by turning anticlockwise the small brass knob

Turn Off

1. Close the main tap on the gas cylinder
2. Consume all the residual gas in the rubber hose
3. Close the torch taps and knobs

Safety Devices:

1. An excess flow security valve is placed on the regulator for immediate stop of gas flow in case of rubber hose damage or sudden pressure change due to external causes
2. A torch stand is provided as standard equipment in order to lay the torch when in use. This allows the torch to rest in a upright position onto the floor.



SWARAJ GAS TORCHES & BURNERS

For small brazing applications



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Universal Fittings



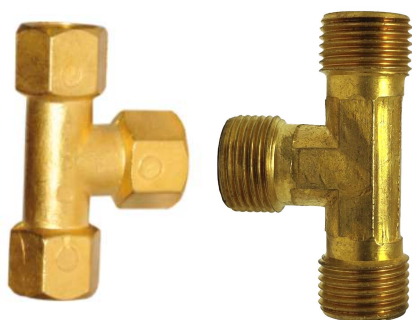
PRODUCT	Pilot Burner					
PRODUCT CODE	1117					
SPECIFICATIONS	Low Pressure (PL 1) / High Pressure (PL 2) brass forged pilot burners for commercial equipment. Suitable for LPG and Natural Gas. Inlet 2" BSPM CU.					
	No.	Length	Diameter	Working/Pr	Consumption/Hr	Heat Output
	PL-1	92 mm	16 mm	0.035 Kg/cm ²	0.043 Kg	480 kcal/hr
		3.62 in	0.63 in	0.50 psig	0.094 lbs	1,895 btu/hr
	PL-2	92 mm	16 mm	0.3 Kg/cm ²	0.400 Kg	4,500 kcal/hr
		3.62 in	0.63 in	4.50 psig	0.950 lbs	17,765 btu/hr
BRANDS AVAILABLE	UE					



PRODUCT	Adapters & Couplings in MS, SS or Brass	
PRODUCT CODE	1131 to 1135	
SPECIFICATIONS	There are individual fittings for fixing on M.S. pipeline for obtaining different types of outlets and are used to connect valves regulators and any other fittings on to the pipeline.	
	2" MT x MCV	1/2" MT x MCV
	1/4" MT x MCV	1/4" MT x MCV
	2" MT x MCV	1" MT x MCV
BRANDS AVAILABLE	UE	



PRODUCT	Adapters & Couplings in MS, SS or Brass	
PRODUCT CODE	1151 to 1159	
SPECIFICATIONS		
	2" MT x 1/4" CU	1/2" MT x 1/2" MT
	1/4" MT x 2" CU	1/2" MT x 2" CU
	2" MT x 2" CU	2" MT x 2" MT
	2" MT x 2" CU	1" MT x 2" MT
	2" BSPF x 1/4" MT	1" MT x 2" CU
BRANDS AVAILABLE	UE	



PRODUCT	3 Way T
PRODUCT CODE	1136
SPECIFICATIONS	Forged Brass T connectors in 2" male or female end connection
BRANDS AVAILABLE	UE



PRODUCT	Bunsen Burner in Brass or SS with Nozzle
PRODUCT CODE	1111 / 1112
SPECIFICATIONS	Ideal for use in Laboratories-Educational Research and Pathological Laboratories. Most suitable to keep liquids boiling in urns, kettles etc.
	Flame can be controlled by a tap installed in the line or installed on the burner. Heavy metal base prevents toppling.Brass burner tube warrants long
	life. Also available in stainless steel tube and base. Attractive electroplated
	finish prevents corrosion due to fumes. Available in two sizes.
BRANDS AVAILABLE	UE



PRODUCT	Bunsen Burner in Brass or SS with Tap
PRODUCT CODE	1111 / 1112
SPECIFICATIONS	Optimum
	Model Working Consumption Rated
	No. Length Diameter Pressure Per Hour Heat Output
	B-1 150 mm 80 mm 0.035 Kg/cm ² 0.06 Kg 680 kcal/hr
	6.0 in 3 in 0.50 psig 0.13 lbs 2,700 btu/hr
	B-2 150 mm 80 mm 0.035 Kg/cm ² 0.1 Kg 1,250 kcal/hr
	6.0 in 3 in 0.50 psig 0.235 lbs 4,950 btu/hr
BRANDS AVAILABLE	UE



PRODUCT	Bunsen Burner Taps
PRODUCT CODE	1113 / 1114
SPECIFICATIONS	Forged brass bunsen burner taps available in 3/8" BSPM or 1/2" BSPM x nozzle
BRANDS AVAILABLE	UE



PRODUCT	Table Terminals
PRODUCT CODE	1115
SPECIFICATIONS	To be used as a junction on table for connecting
	Bunsen Burner Taps for laboratory use or kitchen platforms.
	Inlet 3/8" CU x Outlet 4 Nos. 1/8" BSPF
	Inlet 1/2" CU x Outlet 2 Nos. 1/8" BSPF
BRANDS AVAILABLE	UE



PRODUCT	New Terminals
PRODUCT CODE	1116
SPECIFICATIONS	Inlet 1/2" BSP TM Outlet 1/8" BSPF (2 Nos.)
	Inlet 3/8" BSP TM Outlet 1/8" BSPF (2 Nos.)
	Used as a Central Terminal for Gas Tap in Pipeline for laboratory use or
	kitchen platforms.
BRANDS AVAILABLE	UE

Rotogauges for bulk LPG bullets, Thermostats & Heating Coils for Vaporisers, and all fitting for Decanting, Unloading Hoses, Acme Couplings and Clamps are also available. We also test and certify LPG Safety Valves, Vaporisers, Unloading Hoses & LPG Bullets as per Chief Controller of Explosives Rules (PESO).

We carry out overhead & mounded storage installations for LPG in India and Abroad. We also offer consultancy for setting up of bottling plants for filling LPG cylinders.



PRODUCT	Safety Relief Valve for Bulk Bullets
PRODUCT CODE	SPL
SPECIFICATIONS	Safety Relief Valve for Bulk Bullets made as per CCOE / PESO standards
	Sizes available 1½" or 2"
BRANDS AVAILABLE	ANIL / KOSAN / CHANDRA



PRODUCT	Temperature gauge
PRODUCT CODE	1405
SPECIFICATIONS	SS body, back entry ½" size. Maximum temperature 150°C
BRANDS AVAILABLE	ITEC



PRODUCT	Pop Action Safety Relief Valve
PRODUCT CODE	1243 / 1244
SPECIFICATIONS	Available in sizes ¾" mounting
	Pressure relief rating available in various capacities to suit customers requirements. Made in forged brass body.
	Also known as thermal relief valve Made as per CCOE / PESO standards
	For Oil Company bottling plants.
	Outlet threading suitable for vents.
BRANDS AVAILABLE	ANIL / KOSAN



PRODUCT	Acme Nuts & Couplings
PRODUCT CODE	1265 / 1266
SPECIFICATIONS	Acme coupling made as per CCOE/PESO Standards
	Used for Tank installations.
BRANDS AVAILABLE	SGI



PRODUCT	Unloading & Decanting Hoses
PRODUCT CODE	1261 to 1264
SPECIFICATIONS	Size: 4mts & 5mts length and 1½" - 2" end fittings.
	Used for bottling plants and unloading LPG in Industries
	Bulk LPG installations. Certified as per PESO / CCOE standards
BRANDS AVAILABLE	DUNLOP / SUPERHOZE / ALFAGOMMA / PARKER / GATES

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Domestic Equipments



PRODUCT	LPG Iron Press - Brass Bottom
PRODUCT CODE	LPGIB
SPECIFICATIONS	LPG operated iron at unreduced pressure. Combustion within iron box chamber. Consumes 1 kg of gas in 22 hours. Supplied with hose and adapter.
	Maximum working pressure 5 bar
BRANDS AVAILABLE	IRINA



PRODUCT	LPG Hose Suraksha
PRODUCT CODE	PGOH / PGBH
SPECIFICATIONS	Suraksha hose 8 mm in roll form as per standard specifications.
	Working pressure 10 bar (Orange color) - PGOH
	Working pressure 25 bar (Black color) - PGBH
BRANDS AVAILABLE	PUNEGAS / UE SHURAKSHA



PRODUCT	Gas Hose Cutter
PRODUCT CODE	STC
SPECIFICATIONS	Forged steel Suraksha wire braided tube cutter having computerised machine sharpened blades for prolonged usage.
BRANDS AVAILABLE	MEGA



PRODUCT	Online Regulator
PRODUCT CODE	1390
SPECIFICATIONS	Low pressure online regulator with 3/8" BSPF inlet and 3/8" BSPM outlet.
	Inlet pressure 7 bar, Outlet pressure 30 mbar, flow 2 kgs/hr.
BRANDS AVAILABLE	SAFEGAS



PRODUCT	Online Regulator
PRODUCT CODE	1389
SPECIFICATIONS	LP Online Regulator - FECV inlet 8 mm nozzle outlet.
	Inlet pressure 7 bar, outlet pressure 30 mbar, flow 2kg/hr.
BRANDS AVAILABLE	SAFEGAS



PRODUCT	'O' Ring Leakage Tester
PRODUCT CODE	LDP
SPECIFICATIONS	Aluminium die cast body with acrylic window for leakage inspection suitable for 25.6 mm SC valve cylinders of VOT type. 5 /14 / 19 kg
BRANDS AVAILABLE	VALTEST



PRODUCT	'O' Ring Remover for S.C Cylinder Valve
PRODUCT CODE	COR
SPECIFICATIONS	Screwdriver handle heat treated steel pincher shape O ring remover for SC valve cylinders.
BRANDS AVAILABLE	REMO



PRODUCT	'O' Ring Fitter for S.C Cylinder Valve
PRODUCT CODE	COI
SPECIFICATIONS	Aluminium die cast body easy to use O ring fitter for or SC valve cylinders of 25.6 mm
BRANDS AVAILABLE	RIFIT



PRODUCT	High Pressure Regulator VHPR HP
PRODUCT CODE	1333A
SPECIFICATIONS	Multi Point Lock High Pressure Regulator used on LPG cylinder valve
	Adjustable flow control
	Inlet as per BSEN : 12864
	Inlet size : 25.6 mm Outlet size : 3/8" BSPM / Hose nozzle 8 mm
	Inlet pressure max : 17 kg/cm ²
	Outlet pressure from : 0.05 mbar to 2 bar
	Flow max : 8 kgs/hr
BRANDS AVAILABLE	AGC



Legally sold 25.6 mm regulator for use with SC Valve of any size cylinder for 25 to 45 mbar pressure outlet

PRODUCT	Commercial Adjustable Low Pressure Regulator VHPR LP
PRODUCT CODE	1334A
SPECIFICATIONS	Multi Point Lock High Pressure Regulator used on LPG cylinder valve
	Adjustable flow control
	Inlet as per BSEN : 12864
	Inlet size : 25.6 mm Outlet size : Hose nozzle 8 mm
	Inlet pressure max : 17 kg/cm ² Outlet pressure from : 25 mbar to 45 mbar
	Flow max : 2 kgs/hr
BRANDS AVAILABLE	TVL



PRODUCT	High Pressure Regulator VHPR HP
PRODUCT CODE	1333 T
SPECIFICATIONS	Multi Point High Pressure Regulator used on LPG Cylinder
	Valve Adjustable flow control
	intel as per BSEN : 12864
	intel Size 25.6 mm Outlet size : 3/8" BSPM
	intel Pressure max : 17 bar
	Outlet Pressure from : 0.05 mbar to 2 bar
	with Child Safety Mechanism
BRANDS AVAILABLE	TVL



PRODUCT	High Pressure Regulator VHPR HP
PRODUCT CODE	1333
SPECIFICATIONS	Multi Point Lock High Pressure Regulator used on LPG cylinder valve
	Adjustable flow control
	Inlet as per BSEN : 12864
	Inlet size : 25.6 mm Outlet size : 3/8" BSPM / Hose nozzle 8 mm
	Inlet pressure max : 17 kg/cm ²
	Outlet pressure from : 0.05 mbar to 2 bar
	Flow max : 8 kgs/hr
BRANDS AVAILABLE	KOSAN

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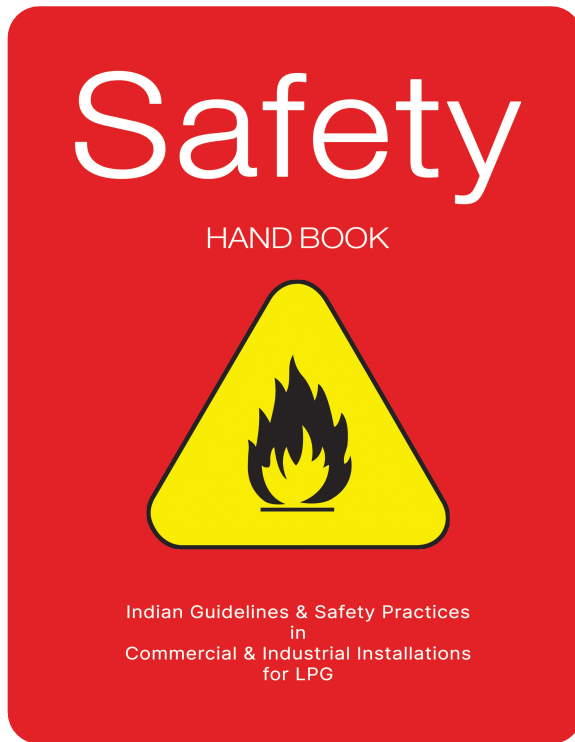
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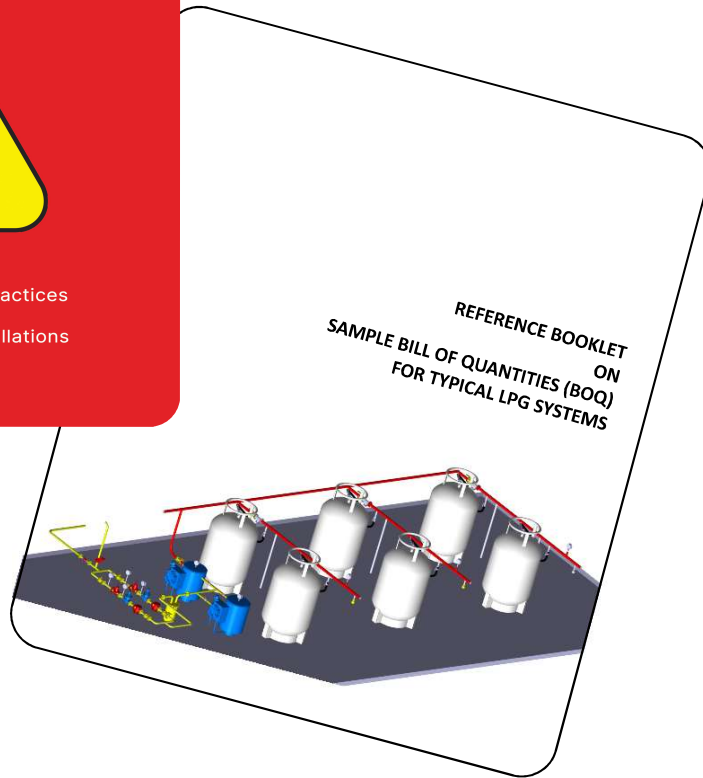


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