

Most Reliable Gas Cutting & Welding Equipment











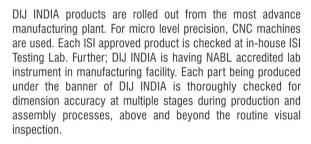


About DIJ INDIA



The year 1962 is marked with a humble beginning of DIJ INDIA at Jamnagar. In those days, DIJ INDIA was involved in production of stove parts. With passage of time, founder Shree Jayantibhai Kanakhara, extended DIJ INDIA brand in the field of Oxy-fuel welding and cutting technology. Today, brand is progressing under the leadership of second generation technocrats Mr. Rupen Kanakhara and Mr. Ravi Kanakhara.

Due to conscious efforts of team, DIJ INDIA products exceed most of the set standards of quality. DIJ INDIA Regulators and Cutting Blowpipes are offered with ISI Mark; products are CE certified and manufactured as per the stringent guidelines of ISO 9001:2008. Today, DIJ INDIA dominates Cutting & Welding Accessories as well as Regulator markets.



Such an impactful manufacturing infrastructure and quality first approach is the reason behind the continuous long term association with prestigious clients. DIJ INDIA products are the part of direct and secondary supply to Reliance Industries, L&T Hydrocarbon, Pipavav Ship Yard Ltd., AFCONS, GDCL, Simplex Infrastructure, JMC Projects India Ltd, etc.

DIJ INDIA is highly preferred by various industries for their customized requirements. However, a complicated prerequisite, DIJ INDIA can deliver!



Note: All products are crafted from extrusion rod.





IS 6901-2009 & **BSEN ISO 2503-1998**

IS 7653:1975































ISI Double Stage Regulators (Jet Flow)

ISI DIJ INDIA multi stage regulators continue the tradition of superior performance in the double stage range. The latest materials and advance component design make these regulators suitable to meet the stringent demand of use in shop-floor as well as in outdoor conditions with enhanced safety. The regulators are provided with two pressure gauges one to indicate the inlet pressure and other to indicate the outlet pressure. The working pressure can be adjusted by the pressure adjusting knob. DIJ INDIA regulators have proven performance in MIG welding and TIG welding application.





Features

- ISI DIJ Multi stage regulators suitable for 300 bar inlet pressure and safety pressure gauge for 400 bar pressure. Confirming to "ISO 5171" standards
- Much more harsh.
- Long life
- I Second stage chamber is 5 times the volume of first stage chambers "secure"
- Outlet pressure stability.
- Steady flow of gases
- Fire-Protect valve material
- I Neoprene diaphragm in both stages
 - Which withstand stock of full cylinder pressure
 - Gives flexibility & better pressure regulation
- Pressure reduction from manifold or cylinder is achieved in two stages
- Forged brass body & cap.
- Safety valve
- Inlet filter.

Specifications

Cut & Weld at the best

- Regulator manufactured from high strength extrusion rod as per "IS 319" materials tested by "NABL approved laboratory" as per "ISO 9539"
- S.S. Valve pin
- All spares, body & bonnet of regulator are machining in "C N C".
- All rubber parts made from neoprene "rubber tested by NABL approved laboratory" as per "ISO 9539"
- I Valve made of fire retardant brass
- I High strength bull nose nipple.
- I DIJ INDIA oxygen regulator "outlet flow is 1000 in case of system failure, same flow can be passing through safety valve to "avoid an accident"
- Inlet filters "stops harmful particles" to protect the internal system of regulator
- Body- bonnet is tested & passed "shearing test" in 500 bar hydraulic pressure.
- Our oxygen regulator is passed "ignition test" with high pressure oxygen gas flow of "120°C", there is "no burning observed"
- All DIJ INDIA regulators tested & passed "heat test", all are working properly at "60°C".
- All DIJ INDIA regulators tested & passed "freezing test", all are working properly at "-20°C"

Type of Code Medal May Inlet May Outlet May Flow



Gas	Letter	Model	Pressure(Bar)	Pressure(Bar)		n Ft ³ /h	Connection	Connection	Application
Oxygen	JET Flow	02	300	10	1000	2119	5/8"BSP R/H (Male)	3/8"BSP R/H (Male)	Heavy Cutting & Heating Process
Acetylene	JET Flow	Da	40	1.5	250	529.7	5/8"BSP L/H (Male)	3/8"BSP L/H (Male)	All Welding Cutting & Heating Process
Nitrogen	JET Flow	N ₂	300	10	1000	2119	5/8"BSP R/H (Male)	3/8"BSP R/H (Male)	Pressure, Purging & Refrigeration
Hydrogen	JET Flow	H ₂	300	10	1000	2119	5/8"BSP L/H (Male)	3/8"BSP L/H (Male)	Pressure, Purging & Refrigeration
Carbon Dioxide	JET Flow	Co ₂	200	4	35	74	0.860*14 TPI R/H (Female)	3/8"BSP R/H (Male)	MIG
Argon	JET Flow	Ar	300	2	25	53	5/8"BSP R/H (Male)	3/8"BSP R/H (Male)	MIG & TIG
Note : Repairing, Spares And Re-certification of Regulators are Available at our Jamnagar Manufacturing Division									



ISI Single Stage Regulators (Flow Well)

ISI DIJ INDIA Single stage regulators continue the tradition of superior performance in the single stage range. The latest materials and advance component design make these regulators suitable to meet the stringent demand of use in shop-floor as well as in outdoor conditions with enhanced safety. The regulators are provided with two pressure gauges one to indicate the inlet pressure and other to indicate the outlet pressure. The working pressure can be adjusted by the pressure adjusting knob. ISI DIJ INDIA regulators have proven performance in MIG welding and TIG welding application.





Specifications

- Regulator manufactured from high strength extrusion rod as per "IS 319" materials tested by "NABL approved laboratory" as per "ISO 9539".
- S.S. Valve pin.
- All spares, body & bonnet of regulator are machining in "C N C".
- All rubber parts made from neoprene "rubber tested by NABL approved laboratory" as per "ISO 9539".
- Valve made of fire retardant brass. 6. High strength bull nose nipple.
- I DIJ INDIA oxygen regulator "outlet flow is 1000 Lpm". in case of system failure, same flow can be safety valve to "avoid an accident".
- Inlet filters "stops harmful particles" to protect the internal system of regulator.
- Body- bonnet is tested & passed "shearing test" in 500 bar hydraulic pressure.
- Our oxygen regulator is passed "ignition test" with high pressure oxygen gas flow of "120°C", there is "no burning observed".
- All DIJ INDIA regulators tested & passed "heat test", all are working properly at "60°C".
- All DIJ INDIA regulators tested & passed "freezing test", all are working properly at "-20°C".







Features

- I ISI DIJ INDIA Single stage regulators suitable for 300 bar inlet pressure and safety pressure gauge for 400 bar pressure. Confirming to "ISO 5171" standards
- I Long life
- I Outlet pressure stability
- I Steady flow of gases
- I Fire-Protect valve material
- I Neoprene diaphragm.
- I Which withstand stock of full cylinder pressure.
- I Gives flexibility & better pressure regulation
- I Pressure reduction from manifold or cylinder
- I Forged brass body & cap
- I Safety valve
- I Inlet filter

Type of Gas	Code Letter	Model	Max. Inlet Pressure(Bar)	Max. Outlet Pressure(Bar)		Flow 1 Ft³/h	Inlet Connection	Outlet Connection	Main Application
Oxygen	Flow Well	02	300	10	1000	2119	5/8"BSP R/H (Male)	3/8"BSP R/H (Male)	Heavy Cutting & Heating Process
Acetylene	Flow Well	Da	40	1.5	250	529.5	5/8"BSP L/H (Male)	3/8"BSP L/H (Male)	All Welding Cutting & Heating Process
Nitrogen	Flow Well	N ₂	300	10	1000	2119	5/8"BSP R/H (Male)	3/8"BSP R/H (Male)	Pressure, Purging & Refrigeration
Hydrogen	Flow Well	H ₂	300	10	1000	2119	5/8"BSP L/H (Male)	3/8"BSP L/H (Male)	Pressure, Purging & Refrigeration
Carbon Dioxide	Flow Well	Co ₂	300	4	35	74	0.860*14 TPI R/H (Female)	3/8"BSP R/H (Male)	MIG
Argon	Flow Well	Ar	300	2	25	53	5/8"BSP R/H (Male)	3/8"BSP R/H (Male)	MIG & TIG

Note: Repairing, Spares And Re-certification of Regulators are Available at our Jamnagar Manufacturing Division

Single Stage Single Gauge Regulators

DIJ INDIA single stage single gauge regulator is a compact regulator which delivers consistently peak performance even in tough working conditions. Sturdy construction of this regulator ensures efficient and dependable control of gas. Inlet pressure gauge will give you readings about cylinder pressure at the same time you can set desired working pressure easily. Models are available for Oxygen, Acetylene, CO₂, Argon, Nitrogen and Hydrogen.



Specifications

- Regulator manufactured from high strength extrusion rod as per "IS 319" materials tested by "NABL approved laboratory" as per "ISO 9539".
- S.S. Valve pin.
- All spares, body & bonnet of regulator are machining in "C N C".
- All rubber parts made from neoprene "rubber tested by NABL approved laboratory" as per "ISO 9539".
- Valve made of fire retardant brass. 6. High strength bull nose nipple.
- DIJ INDIA oxygen regulator "outlet flow is 1000 Lpm". in case of system failure, same flow can be safety valve to "avoid an accident".
- Inlet filters "stops harmful particles" to protect the internal system of regulator.
- Body- bonnet is tested & passed "shearing test" in 500 bar hydraulic pressure.
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DIJ INDIA Krishna Series Regulators

Single Pressure Gauge



Our Non-ISI regulators are available under Krishna brand. If you are looking for welding machine automation and complete safety of user than this product is just perfect. Further it will fit your budget as well.

This single stage single pressure gauge regulator is extremely easy to operate and it works just fine with Oxygen, Acetylene, ${\rm CO_2}$, Argon, Nitrogen and Hydrogen.

Features & Specifications

- I Forged brass body
- Neoprene rubber diaphragm
- Net inlet filter
- CF Certified
- Machining of all spares, body & bonnet of regulator are done on CNC

If you are searching for a single stage double pressure gauge regulator for a cylinder or manifold use you have reached just a perfect place. The first pressure gauge gives indication of cylinder pressure whereas second pressure gauge shows working pressure.

Features & Specifications

- I Regulator body & bonnet made of forged brass thus eliminates casting porosity
- Forged body has higher capacity to withstand full cylinder pressure
- Neoprene rubber diaphragm
- I Compact construction and easy to assemble
- Regulators can be used with various gases such as Oxygen, Acetylene, CO₂, Argon, Nitrogen and Hydrogen.
- Suitable for brazing, heating, welding, research lab, purging, etc.

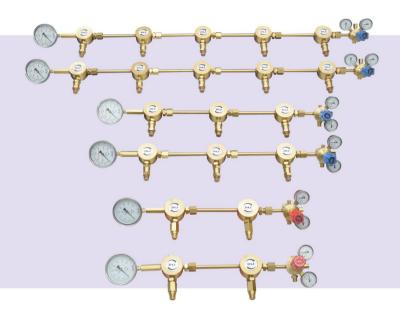
Double Pressure Gauge



Code-009 & 011

Manifold System





DIJ INDIA Manifold Systems are designed to regulate compressed gases in high pressure cylinders (up to 400 bar). While these manifolds can be used as a primary source of gas, the typical application finds this model as a high pressure back-up system for bulk tank systems in industry and medical environments. Standard designs are ideal for manifold application not requiring automatic changeover from the service to the secondary bank. Customised designs are available for auto changeover.



Features

- Manifold body crafted from round extrusion rode
- I Flexible stainless steel braided connection hosepipe with safety spring to sustain high pressure from cylinder to manifold
- Master shut-off valve
- I Thread construction for maximum leak prevention
- I End capped to accommodate future expansions needs
- I Right and left hand inlets available Wall or Stand mount available

Cutting Blowpipe

ISI Injector Type



You can easily cut up to 300mm thick mild steel with ISI DIJ INDIA Injector Type Cutting Blowpipe. It's tough and rugged body construction adds to the balance required during metal cutting operation. DIJ INDIA Injector Type Cutting Blowpipe is compatible to use with dissolved Acetylene Cylinders and with proper nozzle it works excellent with LPG. Wide range of length and head angles (180°) is available to suit your requirements. If you have any complex and specific requirement we can offer customized solutions for the same.

Features & Specifications

- To rule out all possibilities of casting porosity ISI DIJ INDIA Injector Type Cutting Blowpipe's body, middle body & head are made of forged brass from extrusion rods
- Forged body and head also helps in reaching gas economy and ensure total safety
- I Gas flow geometry planned in a way so it offers high resistance to back fires
- Accurate flame control by adjustable control valve
- Backlit handle offers better grip and ensure safety as that part is getting heated

N.M. Type



Code-104

Features & Specifications

To enhance safety and efficiency, DIJ INDIA deploys new generation nozzle mixing technology in creation of NM Type Cutting Blowpipe. This modern product is light in weight and so makes piercing job extremely easy.

- Seamless stainless steel tubes for fuel gas and 3 seat nozzle for gas mixing eliminate almost all possibilities of backfire.
- Safety and durability is further enhanced as forged angle head and body are developed from extrusion brass rods
- Operator can have added convenience with stainless steel lever
- Latch facility helps to avoid operator fatigue
- I Handle is designed for better grip with stainless steel material
- I Metallic knobs also offer better grip and longer life

Welding Equipments



Gas Welding Torch



DIJ INDIA provides an ideal solution for light duty welding with its Gas Welding Torch. This product is highly preferred for light sheet metal welding in garages and workshops. It is highly recommended for repetitive work as handiness minimizes operator fatigue.

Features & Specifications

- I Welding capacity up to 5mm thickness
- Inlet chamber and mixing chamber are made from forged extrusion brass to avoid casting porosity
- I Resistance to backfire
- I Economy of gas saving
- I Equal pressure blowpipe
- I Durable and leak proof design with brass tapper ended spindle valve
- I High precision design of tips, mixer and shank give trouble free operation, high performance, economy and safety.

LPG Regulators



DIJ INDIA offers four variants of LPG regulators for medium duty cutting and heating.

- 1. Big high pressure forged regulator with nut & nipple (available in 25mm & 22mm variants)
- 2. Big high pressure forged regulator with nipple only (available in 25mm & 22mm variants)
- 3. Big high pressure regulator with pressure gauge and gas control valve (available in 25mm & 22mm variants)
- Small high pressure forged regulator (available in 25mm & 22mm variants)

These regulators are designed with large orifice and streamline gas passage to pass large volumes at low inlet pressure.









Features & Specifications

- I Forged brass body from extrusion rod
- I Neoprene rubber diaphragm
- I CE Certified
- Working pressure 0 to 2.5 bar

- I Cylinder pressure 0 to 20 kg
- I Gas application LPG
- Suitable for brazing, heating, welding, research lab
- I Machining of all spares, body & bonnet of regulator are done on CNC

Flashback Arrestors

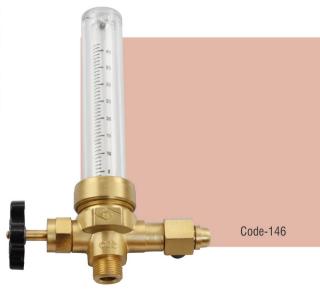




DIJ INDIA Flashback Arrestors are used as an integral part in welding and cutting equipment to stop the flame or reverse flow of gas back up into the equipment or supply line. Once DIJ INDIA Flashback Arrestor is mounted on torch it prevents the user and equipment from damage or explosions.

Flow Meter

You can use DIJ INDIA Flow Meter to measure the flow rate or quantity of a gas moving through a pipeline distribution installation or regulator. This product comes with precision machined forged extrusion brass body and unbreakable plastic body of tube. It works in wide range of 2-40 lit/min and gas pressure 0.2 Mpa (Max) and finds application in CO₂ and Argon.



Cylinder Testing Gauge



DIJ INDIA offers a 210 bar testing gauge with release valve for cylinder pressure. It has high resolution dial and safety pressure gauge. You can use for gases like Oxygen, Argon, Carbon Dioxide, Hydrogen, Acetylene, Nitrogen, etc.

Cylinder Direct Valve

DIJ INDIA Cylinder Direct Valve is very useful for applications where you want to release gas directly from cylinder. This product is very much useful for air flow control in aquarium. Product is simple in design but robust in usage. Use it for easy withdrawal of gas.





CO₂ Pre Heater with Core Assembly

DIJ INDIA $\mathrm{CO_2}$ Gas Pre-Heater comes with core assembly. It works as an intermediary between the outlet of a cylinder and inlet of a regulator. Internal assembly is prepared in a way so as and when gas passes through the body the gas is heated. This way $\mathrm{CO_2}$ gas is heated prior to reaching pressure regulator. So in welding work it allows constant flow without risk of freezing up or a noticeable change in pressure.

Two Way Valves



Two Way Valve with nipple Only right or left thread



DIJ INDIA offers a range of Two Way Valves which is characterized by two ports. When you want two outlets from single source of inlet go for our Two Way Valves. We offer two way valves with nipple, two way valves with 8mm nut & nipple and two way valves with 4" extra-long nipple. These products have been developed considering practical utility situations.

Two way valve with 8mm nut & nipple set Right or left thread



Tank Valve





DIJ INDIA offers four variants of Tank Valves as follow Tank Valve of inner thread, Tank Valve of outer thread, Tank Valve of outer thread with nut & Nipple and Tank Valve of outer thread with outlet. We are sure your brazing work needs would be satisfied with DIJ INDIA Tank Valves.





Poly Carbon Plastic Pipe Set with Ball & Diaphragm

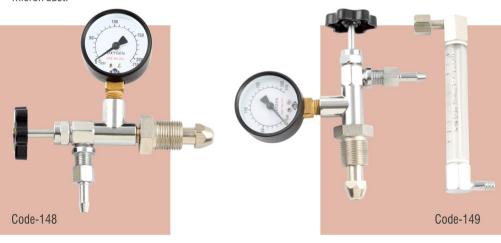




DIJ INDIA Poly Carbon Plastic Pipe Set with Ball & Diaphragm is highly recommended for flow meter. This single piece pipe body is injection molded of tough, clear, shatter-proof polycarbonate plastic. This design is easy to read and helps you give accurate details of liter per minute at 2 bar pressure outlet.

Cylinder Direct Valve (FA Valve) for Medical

DIJ INDIA has many variant of chrome plated FA Valve also known as Cylinder Direct Valve having special applications in medical field. Product models include cylinder direct valve with gauge, nut & nipple, cylinder direct valve with gauge & flow meter, cylinder direct valve with plastic body & poly carbon pipe and cylinder direct valve with humidifier for wet oxygen. These products are used in hospitals for adjusting the flow of gases during operations. For example, DIJ INDIA FA Valve with flow meter reduces the cylinder pressure by merely providing a variable restriction to the flow of Oxygen from the oxygen bank outlet. As volume of Oxygen in the oxygen bank/cylinder reduces, the flow meter has to be constantly adjusted to maintain the required flow rate. The flow meter unit is fitted with shatter proof tubes calibrated from 0-15ltrs/min. There also comes brass spindle for fine adjustment of the flow and inlet filter to element micron dust.



Cutting Machine



DIJ INDIA presents light weight and easy to carry straight line and circle cutting machine in two variants, CUT MASTER IN and CUT MASTER NM. CUT MASTER NM is created with latest Nozzle Mixing technology whereas CUT MASTER IN is injector type versatile cutting machine. Both models come with wrap round handle which ensures easy portability and protection.

Features & Specifications

- CUT MASTER Machine body is crafted from pressed steel with wrap/round handle and fibre glass heat deflector.
- I Overall CUT MASTER machines of DIJ INDIA are light in weight and due to wrap round handle they are extremely easy to handle.
- I By using extendable tracks, our CUT MASTER machines can create straight cuts of any length. CUT MASTER NM machine can cut thickness up to 100 mm MS, bevel cuts up to 45°and 75mm thick MS whereas circle cuts 75-1140mm diameter. CUT MASTER IN machine can cut thickness up to 75mm MS, bevel cuts up to 45°and 50mm thick MS whereas circle cuts 75-1140mm diameter. Also these machines can shape gradual curves, when hand-guided.
- I Circle cutting can be done with use of optional circle cutting attachments which can be easily fixed to the machine.
- CUT MASTER IN, injector type cutter is specially designed to prevent backfire. CUT MASTER NM cutter is developed with nozzle mixing technology for better safety.
- Cutter adjustment can be Swivelled to cut levels up to 45° with Rack and Pinion.
- Acetylene or LPG Gas can be used by selecting the appropriate nozzles. One nozzle for use with Acetylene for cutting MS from 6 mm to 75 mm thickness supplied along with the machine.
- 220 volts Fractional Horse Power geared reversible motors come as an integral part of machine. Power is fed through a Forward-Reverse toggle Switch.
- 1.8 meter long Aluminium Track or Steel Track can be supplied as optional extra. The CUT MASTER IN/CUT MASTER NM Machines may be set to follow the edge of any straight piece of metal, 8 x 20 mm.

Cutting Machine Model	DIJ INDIA CUT MASTER IN	DIJ INDIA CUT MASTER NM				
Cutting Capacity:						
Square Cuts	Up to 75 mm thick MS	Up to 100 mm thick MS				
Bevel Cuts (up to 45°)	Up to 50 mm thick MS	Up to 75 mm thick MS				
Circles	75 – 1140 mm diameter	75 – 1140 mm diameter				
(using standard circle cutting attachments, which can be supplied as an optional and extra)						
Cutting speed	190-800 mm/min	190-800 mm/min				
Cutter	IMC-3 Injector Type	NM Type				
Speed Control	Rotary resistance	Rotary resistance				
Gas Hose Connections (for 5 mm hose)	1/4" BSP RH & LH	1/4" BSP RH & LH				

Certifications













Regulator Components



Cutting Components



















Welding Components















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