



## Instrumentation Valves



# MAFFS VALVES & FITTINGS PVT LTD

Manufacturer of Industrial Valves, Instrumentation Valves & Fittings



# OUR FOCUS

## ABOUT US

In continuation to our legacy journey as a customer centric company "**Expert Engineering**" which started in 2001, we are now delighted to expand our business portfolio to Industrial and Instrumentation Valves & fittings under the name of "**Maffs Valves & Fittings Private Limited**".

Maffs Valves & Fittings is an Indian based Valve Manufacturing & Service company for the process, power and energy industries across the globe.

We have state of the art manufacturing facility to produce high quality valves and fittings to meet specific needs of the customers. This modern facility is supported by a specialized team of highly skilled staff who ensures of the quality and customer needs are met by complying to International standards.

We are involved in the Design, Manufacturing, Testing, Servicing and Supply of Industrial Valves and Instrumentation Valves & Fittings. We work with the highest consideration for the health & safety of our people and minimize the environmental risk.

Maffs Valves & Fittings is accredited and complies with the Quality Management System ISO 9001.

Commitment

Quality

Safety

Customer  
Delight





## VALUES

Integrity | Commitment | Customer Focus  
Building Relationships | Teamwork.

## MISSION

Our mission is to provide specialized products & services to our clients with delivery commitments to achieve customer delight.

## VISION

Be a global leader in providing specialized products and services in flow control business with commitment in providing the best possible quality, cost & delivery.

## CODE OF CONDUCT

The Code of Conduct outlines Maffs commitments and requirements regarding business practices and personal conduct.

## QUALITY POLICY

Our policy is to continuously improve customer satisfaction by supplying high quality products as committed in compliance with the requirements of our Quality Management System.

Our objectives are :

- Improve customer satisfaction.
- Reduce customer complaints.
- Improve on-time delivery.
- Improve delivery lead times.
- Successful completion of audits.



## ● Needle Valves :

- Integral bonnet and Screwed Ends
- Integral bonnet and Double Ferrule ends
- Screwed Bonnet design female ends
- Screwed Bonnet design Male x female ends
- Screwed bonnet double ferrule ends
- Screwed bonnet angle type

## ● Manifold valves :

- Remotely Mounted - 2, 3 & 5 Valve
- Direct Mounted - 2, 3 & 5 Valve

## ● Ball valves :

- Standard Low pressure ball valve
- Standard low pressure mounted ball valve
- Medium pressure ball valve
- High pressure ball valve (FB & RB)

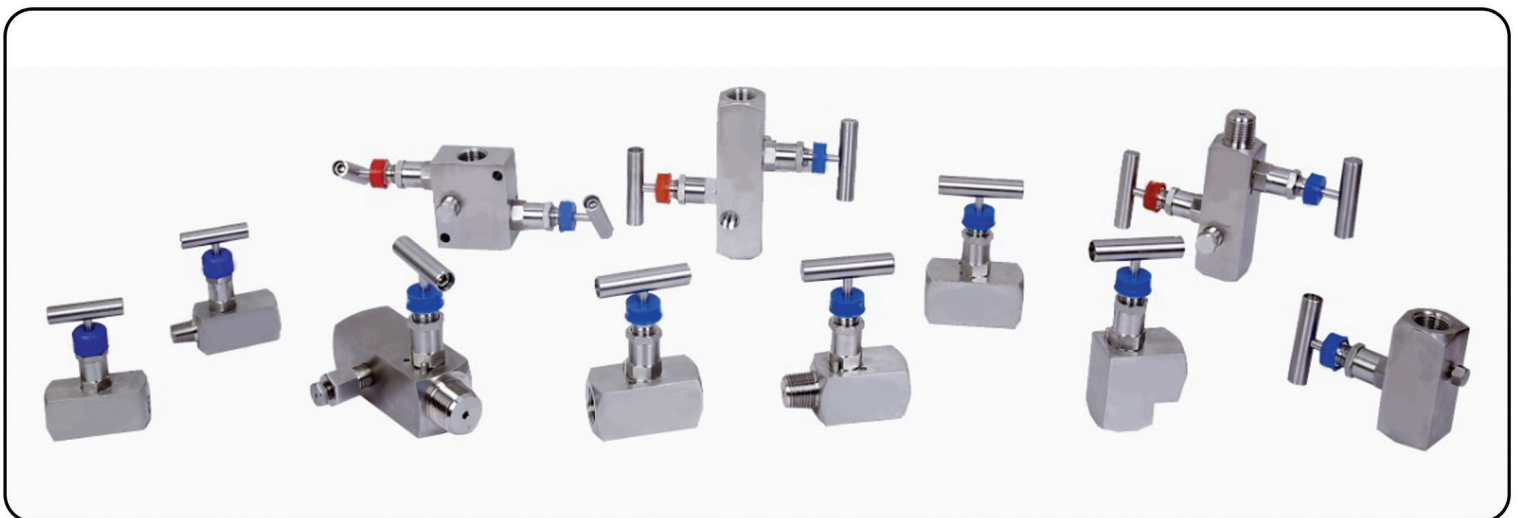
## ● Double block & Bleed Valves :

- Single Piece design
- 3 Piece design

## ● Check valves :

## ● Gauge valves :

- Multi port gauge valve
- Single block & bleed gauge valve
- Double block & bleed gauge valve





Needle valves are designed in integral bonnet and screwed bonnet in a compact way to accommodate in very small space.

There are available in different configuration of end connections as given below.

- Integral bonnet and Screwed Ends
- Integral bonnet and Double Ferrule ends
- Screwed Bonnet design female ends
- Screwed Bonnet design Male x female ends
- Screwed bonnet double ferrule ends
- Screwed bonnet angle type

### IMPORTANT FEATURES :

- Material can be A105, SS304, SS316, Monel, Hastelloy and others. Complete Material traceability to its Material test report is available.
- It is used for isolation, throttling, sampling etc. It can be used with pipe and tube with matching end connections.
- Design Pressure: 410 bar / 6000 psi & Temperature: -50°C to 450°C.
- Standard PTFE Packing / Graphite (for temp above 200°C).
- Finishing - CS Zinc Plated / SS.
- Body can be forged, bar stock, straight type, angle type and also panel mounted designs are available.
- Designed & Assembled to perfection to operate at much lower torque values.
- Sizes are from 1/4" to 1" and M20 configuration.
- Cv of the valve : 0.35 to 1.8 gpm.
- Orifice size: 4, 6.4 & 9.5 mm.

### APPLICATION :

- Instrument Isolation
- Plant Utility line
- Hydraulic and Pneumatic line
- Pressure measurement devices



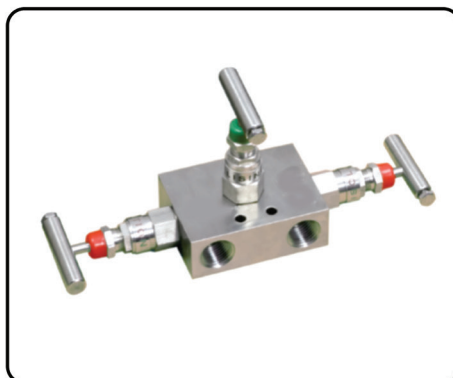


Manifold valves are designed for pressure instruments to use as manual block and bleed arrangement in a compact block.

There are suitable for control oil, toxic fluids, chemicals, water, air & Steam.

### IMPORTANT FEATURES OF MANIFOLD VALVES :

- Material can be in Forged & Bar stock type and Material grade are SS316, SS304, Monel, Hastelloy and others. Complete Material traceability to its Material test report is available.
- Design Pressure: 410 bar / 6000 psi & Temperature: -50°C to 450°C.
- Standard PTFE Packing / Graphite (for temp above 200°C).
- Designed & Assembled to perfection to operate at much lower torque values.
- Designed with the safety factor of 4 to provide the utmost safety feature.
- Stem is anti blow type and non rotating self centering stem tips.
- It can be available with fire testing design as per API 607.
- Different configuration of 2 way, 3 way & 5 way designs.
- There are available with direct mounting and remote mounting.
- Eliminates a tee and isolation valves, tubing and fitting to give a single valve configuration.
- Sizes of 1/2" with NPT, BSPP & BSPT end connections are available.





Instrument Ball Valve design to control the flow of a medium. The ball inside acts as a port to allow the flow depending on the position of the handle. They are manufactured and tested for high pressure applications upto 6000 psi and are available in different material and end connections as per customer requirements.

There are different design of ball valve such as :

- Standard Low pressure ball valve
- Standard low pressure mounted ball valve
- Medium pressure ball valve
- High pressure ball valve (FB & RB)

### IMPORTANT FEATURES OF BALL VALVES :

- Design configuration of 2 way, 3 way ( side / bottom entry) and 4 way valves are available.
- Features such as panel mounting, locking devices and venting are available as required.
- Material can be SS316, SS304, Monel, Hastelloy and others. Complete Material traceability to its Material test report is available.
- Body can be forged or bar stock type.
- Stem is anti blow type and positive stop handle.
- Designed & Assembled to perfection to operate at much lower torque values.
- Bubble tight shut off design with superior soft materials.
- Design Pressure: 410 bar / 6000 psi & Temperature: -50°C to 250°C.

### APPLICATION :

- Instrument Isolation
- Plant Utility line
- Pneumatic line
- Pressure measurement devices





Double Block and Bleed Valve can perform the functions of 3 separate Valves i.e. 2 separate isolations and 1 drain Valve, thereby saving space, weight and installation time and maintenance work.

This valve is operating on the principle that the isolation can be done from both side i.e. upstream and downstream.

Different configurations of designs are available such as two ball, gate, globe, needle, etc. Valves are located in a series configuration with the third valve used as bleed valve in the centre cavity.

This valve is used for flow diverting, sampling, injection, maintenance and integrity check of seat leakage through the bleed valve.

They are available in different designs i.e.. Single piece design and 3 piece design.

- Single piece design
- 3 Piece design
- Monoflange single type
- Monoflange double type

### IMPORTANT FEATURES OF DOUBLE BLOCK & BLEED VALVES :

- Flanged connection of 1/2" to 2" sizes as per international standard ANSI B16.5.
- 1/2" NPTF is standard outlet configuration.
- API flanged design and dimensions are also available.
- Pressure rating of 150# to 2500#
- Material of construction is SS316, SS316L, A105, Duplex and others.
- Fire safe design as per API 607 if required on request.
- Anti blow out stem and low operating torque.
- Bubble tight shut off design.
- Valves are available with different configuration of seat, packing and gasket material as per temperature, media, pressure of the process and as per customer requirements.

### APPLICATION :

- Instrument isolation | Gauge isolation and drain | Injection / sample connection
- Chemical seal instrument isolation | Direct / remote mounting of instruments.
- Piping & instrument interface.







Check valves are used to restrict the flow in only one preferred direction. It provide unidirectional flow and tight shut off in the other director for liquid and gases.

The check valve opens when the differential pressure is more than the cracking pressure and media will flow in preferred direction, while when the differential pressure is below cracking pressure, the valve will close thereby no media will flow.

### **IMPORTANT FEATURES OF CHECK VALVES: :**

- Material can be SS316, SS304, Monel, Hastelloy and others. Complete Material traceability to its Material test report is available.
- All wetted parts can be offered as per NACE MR-01-75.
- Design Pressure: 205 bar / 3000 psi & Temperature: upto 200°C.
- Sizes are from 1/8" to 1".
- Cracking pressure shall be from 1 psi to 25 psi.
- Available in all possible configuration of end connection.





A gauge valve is a single shutoff needle valve, that isolates the pressure gauge from the process. The gauge attaches to one port and the block valve isolates the entire block from the process and the bleed valve vents the gauge to the vent port, for testing or calibration.

- Multi port gauge valve.
- Single block & bleed gauge valve.
- Double block & bleed gauge valve

### IMPORTANT FEATURES OF GAUGE VALVES: :

- Material can be SS316, SS304, Monel, Hastelloy and others. Complete Material traceability to its Material test report is available.
- All wetted parts can be offered as per NACE MR-01-75.
- Design Pressure: 410 bar / 6000 psi & Temperature: -50°C to 450°C.
- Standard PTFE Packing / Graphite (for temp above 200°C).
- Finishing - CS Zinc Plated / SS.
- Body can be forged, bar stock, straight type, are available.
- Designed & Assembled to perfection to operate at much lower torque values.
- Sizes are from 1/2" and 3/4" male, 1/2" Female end connection and gauge port.
- Available with NACE MR 01 75 standard, Oxygen service and fugitive emission application.

### APPLICATION :

- Instrument Isolation
- Plant Utility line
- Hydraulic and Pneumatic line
- Pressure measurement devices
- Vent Line





We are a leading manufacturer of instrumentation fittings. A list of our products are as below:

## TUBE FITTINGS

- **Connector**
  - Male connector
  - O ring Male connector
  - Female connector
  - Bulkhead female connector
  - Bulkhead male connector
  - Port Connector
  - Reducing Port Connector
  - Male Weld Connector
- **Elbow :**
  - Union Elbow
  - Swivel Elbow
  - Bulkhead elbow
  - Male Elbow
  - 45 deg. Male Elbow
  - Positionable Male Elbow
  - Female Elbow
  - Tube weld Elbow
- **Tee :**
  - Union Tee
  - Male run tee
  - Positionable Male run tee
  - Positionable branch tee
  - Female run tee
  - Female Branch tee
  - Reducing union tee
  - Male Branch tee
- **Union :**
  - Union
  - Reducing union
  - Bulkhead Union
  - Union Cross
- **Adapter :**
  - Male adapter
  - Female adapter
  - O ring Male adapter
- **Others :**
  - Front Ferrule
  - Back Ferrule
  - Coupling Cap
  - Fitting end closure
  - Tube Cap
  - Tube Plug
  - Reducer
  - Bulk head reducer

## PIPE FITTINGS

- **Nipple**
  - Hex Nipple
  - Hex reducing nipple
  - Hex long nipple
- **Coupling :**
  - Hex coupling
  - Reducing coupling
- **Adaptor :**
  - Adaptor
  - Reducing adaptor
  - Gauge Adaptor
- **Elbow :**
  - Female Elbow
  - Male Elbow
  - Street Elbow
  - Reducing street elbow
- **Tee :**
  - Female Tee
  - Male Tee
  - Street run tee
  - Branch tee
- **Others :**
  - Pipe cap
  - Reducing bushing
  - pipe plug
  - Female Cross
- **Pipe Accessories :**
  - Condensor pot
  - Air header
  - Siphon
  - Gauge cock
- **Flanges**
  - Raised Face Flange
  - RTJ Flange
  - Weld Neck Flange
  - Blind Flange
  - Slip On Flange





We are also a leading manufacturer of Industrial Valves. A short list of our products are as below :



Valve Type	Design Standard	150 #	300 #	600 #	800 #	900 #	1500 #	2500 #
Ball Valve - Trunnion	API 6D, ISO 17292	2" to 48"	2" to 48"	2" to 48"	-	2" to 24"	2" to 24"	2" to 12"
Ball Valves - Floating	API 6D, ISO 17292	½" to 6"	½" to 6"	½" to 6"	½" to 2"	½" to 2"	½" to 2"	½" to 2"
Forged GGC Valve	ASME B16.34, API 602	½" to 2"	½" to 2"	½" to 2"	½" to 2"	½" to 2"	½" to 2"	½" to 2"
Gate Valve	API 600, API 6D	2" to 36"	2" to 36"	2" to 36"	-	2" to 24"	2" to 24"	2" to 12"
Globe Valve	API 623, BS 1873	2" to 16"	2" to 16"	2" to 16"	-	2" to 12"	2" to 12"	2" to 12"
Swing Check Valve	API 594, BS 1868	2" to 24"	2" to 24"	2" to 24"	-	2" to 12"	2" to 12"	2" to 12"
Dual Plate Check Valve	API 594	2" to 48"	2" to 24"	2" to 20"	-	2" to 16"	2" to 12"	-
Butterfly Valve	API 609	2" to 36"	2" to 36"	2" to 36"	-	2" to 24"	2" to 16"	-
Plug Valve	API 599, API D	2" to 24"	2" to 24"	2" to 16"	-	-	-	-
Piston Valve	ASME B16.34, API 602	½" to 8"	½" to 8"	-	½" to 2"	-	-	-
Knife Edge Gate Valve	ASME 16.34, MSS SP 81	2" to 48"	2" to 24"	-	-	-	-	-
Strainer	ASME 16.34	1" to 12"	1" to 6"	-	-	-	-	-

\* For valves of sizes and pressure class other than shown in table, Please contact our sales representative.





We are supplying spares of valve, actuator and accessories to suit all types of valves and valve make.

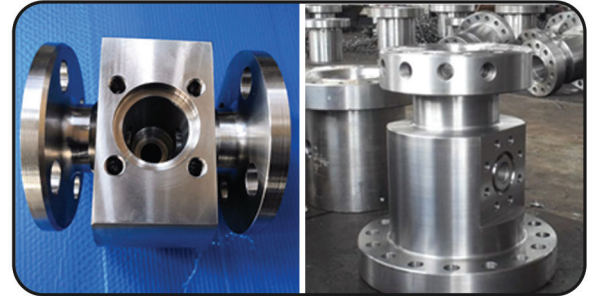
With over 20 years of experience in valve industry, we can offer the world class quality, best prices and fastest delivery. We work to give you a quick response with technical & commercial inputs to provide you with the best solutions.

The spares & parts offered by us, are categorised as below :

Machined Parts | Castings / Forgings | Seals | Fasteners | Actuator & Accessories

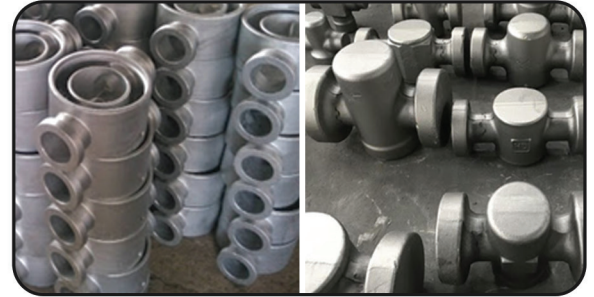
## MACHINED PARTS :

- We supply all kinds of machined parts for any type of valve.
- Body / Trims / Bonnet / Stem / Flanges / Mountings etc.



## CASTINGS / FORGINGS :

- We supply all kinds of castings and forgings for any type of valve.
- Castings : Sand Casting / Investment Casting / Lost Foam Casting.
- Forgings : Close Die / Open Die Forging.



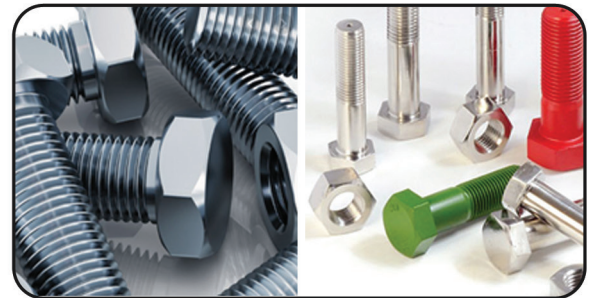
## SEALS :

- We supply all types of seals for valves.
- O-Rings / Gaskets / Packings / Lipseals etc.



## FASTENERS :

- We supply all types of fasteners for valves in all sizes.
- Stud / Bolt / Nut / Screws / Coated Fasteners etc



## ACTUATOR & ACCESSORIES :



# Refurbishment & Repair of Valves



We have vast experience in refurbishing & repairing of all types of industrial valves from every industry such as Oil & Gas, Refinery, Petrochemical, Chemical Process and other similar installations.

All valves and its parts are inspected at our workshops before we start our work. A complete inspection report along with actual photos is prepared for initial assessment of cost, repairing and time period.

All repairing and reconditioning is carried out as per the initial assessment report and its solutions in a control way.

We can repair most valve make, types, sizes and different rating using our highly skilled Engineers and Technicians.

By Repairing, we can save up to 60% to 70% of the cost of a new valve and delivery can be done within 10 – 15 days or as per agreement. Thereby, it can ideal during plant shutdown and maintenance.

All Valves are disassembled, cleaned and inspected to check whether they are in tolerance so that It can be used in the valve again. However, if it is not then, we can replace the component with a new one. 3D Models / 2D drawings are prepared for the same.

Flange serration are check and inspected for any damage and repair or machining is done, if required. Wedge / Seat / Disc / Ball are machined (if required) and then lapped to ensure a perfect seal as per the customer leakage requirements. All soft parts such as packing and gaskets are replaced with new parts so that leakage is not there.

Valves are assembled by highly trained technicians. Hydro testing is done to check body leakage and seat leakage test is done to check for any internal leakage as per international standards or as per customer requirements. Painting can be provided as per customer requirements.

Testing report is generated with all the details along with satisfactory test results. Our Quality engineer puts his sign and stamp of the company as approval.



# Application in Industries



Our valves are used by various industries worldwide to keep their operating facility running smoothly.



**OIL & GAS**



**REFINERY & PETROCHEMICAL**



**PIPELINE & PROCESS**



**OFFSHORE**



**POWER**



**LNG & CRYOGENICS**



**PULP & PAPER**



**PHARMACEUTICAL**



**FOOD & BEVERAGE**



**WATER & WASTE  
WATER**



**MINING**

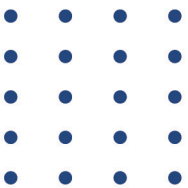


**MARINE**





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