



JSA ENGINEERING & SERVICES



OUR PRODUCTS



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JSA ENGINEERING&SERVICES

Deals in Technical Spares & Services

- **Boiler & Turbine Spares & Services.**
- **Steam Valves, Traps ,Fitting (IBR & Non IBR).**
- **ESP Spares& Services.**
- **Electricals& Instrumentation Spares & Services.**
- **Mechanical Engineering & Equipments.**
- **Crude Oil Instruments & Engineering Services.**
- **Consultancy.**

- 1) **GE FORMALLY - ALSTOM / AREVA RELAYS**
- 2) **TRIPPING/CLOSING COILS SUITABLE FOR ABB/SCHNEIDER/CG/KIRLOSKAR/SIEMENS PANELS.**
- 3) **TRANSMITTER /RTD / THERMOCOUPLE/ PROXIMITY/ CONTROL UNIT.**
- 4) **PID CONTROLLER, VFD, FLOW TRANSMITTER (Magnetic & Vortex)**
- 5) **PNEUMATICS FITTING SPARES.**
- 6) **ESP SPARES.**
- 7) **ASH HANDLING SPARES.**
- 8) **ANDRITZ FILTER SEPERATION INSTRUMENTATION SPARES.**
- 9) **PLC/ DCS/SCADA/HMI .**
- 10) **STEAM VALVES & CONTROL VALVES, TRAPS,**



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(Suppliers of Valves for High Pressure and High Temperature Services)

Ball Valves



Type	Single/Two and Three Piece		
Size	MM	8 mm to 300mm	
Pressure Rating	Class	#150/ 300/ 600	
End Connection	Flanged/ Screwed/ Socket Weld/ Wafer/ Triclover		
MOC	Body	CI/CS/FS/SS-304/ SS-316	
	Internals	Ball	SS-304/ SS-316
		Seat	PTFE/ PEEK/Glass Filled PTFE
Operation	Manual/ Gear/ Actuator		
Manufacturing Standard	BS 5351		
Testing Standard	API 598 / BS6755		



**BALL VALVES AVAILABLE IN FIRE SAFE DESIGN, TRUNION MOUNTING
BLOW OUT PROOF STEM AND FLOATING BALL DESIGN**

Actuated Ball Valves

Type	Single/Two and Three Piece		
Size	MM	10 mm to 200mm	
Pressure Rating	Class	#150/ 300/600	
End Connection	Flanged/ Screwed/ Socket Weld/ Wafer/ Triclover		
MOC	Body	CI/CS/ FS/ SS-304/ SS-316/	
	Internals	Ball	SS-304/ SS-316
		Seat	PTFE/ PEEK/Glass Filled PTFE
Operation	Actuator - Pneumatic/ Electrical		
Manufacturing Standard	BS 5351		
Testing Standard	API 598 / BS6755		



**BALL VALVES AVAILABLE IN FIRE SAFE DESIGN, TRUNION MOUNTING
BLOW OUT PROOF STEM AND FLOATING BALL DESIGN**



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Steam Traps



Thermodynamic Steam Traps

50bar/427°C
Available in CA40 & A105
Size:-15MM to 25MM
IBR/NIBR



High Pressure TD Steam Traps

230bar/537°C
Available in F22
Size:-15MM to 25MM
IBR/NIBR



Bimetallic Steam Traps

22bar/426°C
Available in A105
Size:-15MM to 25MM
IBR/NIBR



Inverted Bucket Steam Traps

25bar/427°C
Available in ASTM A216 GR. WCB
Size:-15MM to 50MM
IBR/NIBR



Inverted Bucket Steam Traps

63bar/510°C
Available in WC6
Size:-15MM to 50MM
IBR/NIBR



Ball Float Steam Traps

16bar/427°C
Available in ASTM A216 GR. WCB
Size:-15MM to 50MM
IBR/NIBR



High Capacity Float Operated
Steam Traps

15bar/426°C
Available in ASTM A516 GR. 70
Size:-80MM to 150MM
IBR/NIBR



Liquid Drain Traps

16bar/220°C
Available in Cast Iron
Size:-15MM to 25MM
NIBR



Float Type Air Eliminator

16bar/220°C
Available in Cast Iron
Size:-15MM to 20MM
NIBR



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Thermal Relief Valve

Extensively used in large Pipe Lines, Small Reactors / Vessels to release Pressure generated by thermal expansion.

Sizes	15 x 25NB, 20 x 25NB & 25 X 40NB 40 X 50NB & 50 X 50NB
Rating	Suitable for Working Pressure upto 200 bar
Material	Forged Steel & Investment Cast Stainless Steel
End Connection	Screwed & Socket Weld
Orifice	7mm, 10mm, 12mm, & 16mm



Safety Relief Valve

(IBR Approved)

Open Bonnet, Conventional Design, Open Cap with Lever. Designed as per API 526/ API 520 and also as per ASME Section VIII.

Ideally suitable for Steam Services. Set pressure varies from 0.7 Kg/cm²

More than 15000 valves installed on boilers across the country.

Valve Size	25 x 50NB to 250 x 350NB
Rating	BS 10 Table H, Class 150 to Class 900
Orifice Size	G(20.0 mm) to V(181.0 mm)
End Connection	Flanged
Material	Carbon Steel, Stainless Steel & Alloy Steel



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Robotrol operated Pressure Control Valve

This design of Pressure Regulating Valve is according to latest development and highly in demand for accurate downstream pressure control.

This is an ideal replacement of self regulating PRV where high flow & high accuracy are required.



Size	40NB - 200NB
End Connection	Flanged
Material	Carbon Steel & Alloy Steel
Outlet Pressure Range	1.5 to 14Kg/cm ² (MAX)

Pressure Reducing Valve - Steam Service

Self Acting, Pilot & Piston operated Pressure Reducing Valve are most popular for pressure reduction of STEAM in all types of Industries. The Valve operates on Spring Balance principal.

The Downstream pressure is sensed below stainless steel diaphragm which is balanced by the spring tension. Increasing spring tension, increases outlet pressure and vice versa.

The Valve has additional external sense Line provision also, which improves performance and accuracy of outlet pressure.

Size	15NB - 200NB
Rating	BS-10 Table H, Class 150 & 300
End Connection	Flanged, Screwed
Material	Carbon Steel & Alloy Steel



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Pressure Reducing Stations

Pressure Reducing Station for Steam

(with IBR approval and certification)

Complete assembled unit of pressure reducing station, sized and selected based on Customer's requirement of Flow Rate, Pressure, Temperature, etc. PRV is of Self Regulating type Model PRV 1001, generally for low-pressure duty. Recommended PRV for high-pressure duty and higher turn down ratio (up to 41:1) is Robotrol operated Control Valve.



Size	25NB X 50NB to 250NB X 350NB
Pressure Range	150 psig - 450 psig
Pressure Rating	Class 150 , 300, 600, BS 10 Table H, etc.
Material	Cast Steel and Alloy Steel

Steam Trap Modules

We specialize in manufacturing of **Steam Trap Modules**.
Tailor made as well as of standard version - **IBR/NIBR**
for **Vacuum to High Pressure Range**.



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Piston Valve and Bellow Sealed Valve

Piston Valve

- . Seatless & Grandless Valve
- . Economic, easy to service
- . Leak-tight across port and to atmosphere
- . No erosion of sealing surface
- . Saves energy, environment friendly
- . Maintenance free



Size (MM)	15 MM TO 200MM	
Pressure Rating	Class	#150/ 300
End Connection	Flanged/ Screwed/ Socket Weld/BW	
MOC	Body	CS/ FS/ SS-304/ SS-316
	Piston	SS-410 /SS-304/ SS316
	Stem	SS-410 /SS-304 / SS316
	Rings	Graphite
Certification	IBR/ NIBR	

Bellow Sealed Valve

Size	MM	15MMO 1100MM
Pressure Rating	Class	#150/300/600/800/900/1500/2500
End Connection	Flanged/ Screwed/ Socket Weld/ BW	
MOC	Body	CS/ FS/ SS-304/ SS-316/WC6/ WC9/ F22
	Internals(Trim)	13% cr. / SS-410/ SS-304/ SS-316
	Bellow	AISI 316 TI - 2PLY - 3PLY
Operation	Manual/ Gear/ Actuator	
Certification	IBR/ NIBR	



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Control valves

Pneumatic Control Valve

Globe type Control Valves are available for any control application. Built to take the punishment imparted by many processes, including extreme pressure drop, the value is backed by the most respected name in the valve industry.

Size	25NB - 400NB
Rating	Class 150, 300, 600, 900 & 1500
End Connection	Flanged, Butt weld & Socket weld
Material	Cast Steel, Stainless Steel, Alloy Steel, Hastalloy, etc.

Standard Models

Single Seated, Globe, Unbalanced Design Top guided

Most widely used valve, for all major Fluids, Working conditions & applications. Very easy to maintain.

Single Seated, Globe, balanced Design Cage guided

Excellent valve for Liquid, Air & Clean Gases. Has very high stability and better response.

Single Seated, Globe Top & Bottom guided

Suitable for high working pressure & High pressure Drop

Double Seated, Globe Top & Bottom guided

Used for High Flow Capacity (Cv Valve) & High pressure Differential such as Boiler feed Water etc.

3 Way Mixing & Diverting Skirt & Top guided

Used for Thermic Fluid, Steam, Cooling Water, etc. where excess amount of fluid has to be by-passed.

.All models available with Direct and Reverse Acting Actuators.

.Standard accessories such as Pneumatic Positioners, Electro/ Pneumatic Positioners, Manual Override etc are available.



Disc Check Valve



Size	MM	15 mm to 200mm
Pressure Rating	Class	150/300
SOFT SEATING OPTION AVAILABLE		
End Connection	Wafer	
MOC	Body	SS-304/ SS-316
	Disc	SS304/SS316
	Internals(Trim)	Spring SS304/SS316
	Spring Washer	AISI304/ AISI316
Certification	IBR/ NIBR	
Testing Standard	API 598	



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Gate, Globe, Check Valves

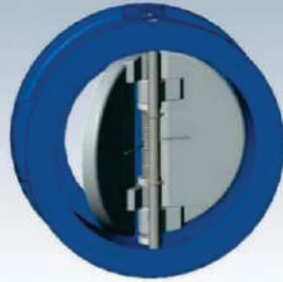


Size	MM	15MM TO 1100MM
Pressure Rating	Class	#150/ 300/ 600/ 800/ 900/ 1500/ 2500
End Connection		Flanged/ Screwed/ Socket Weld/BW
MOC	Body	CS/ FS/ SS-304/ SS-316/ WC9/ WC6/ F22
	Internals(Trim)	13% cr. / SS410/ SS-304/ SS-316
	Option	Stellited
Operation		Manual/ Gear/ Actuator
Certification		IBR/ NIBR
Manufacturing Standard	API 600	
	BS 1873	
	BS 1868	
Testing Standard	API 598	
	API 598	
	API 598	



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Dual Plate Check Valve



Features	Lined	Retainerless
Size (inches)	2" - 24"	2 " - 24 "
Rating	ANSI # 125	ANSI # 125 - ANSI # 2500

Design Features

.Design tp API 594 and API 6D.

.Metal to Metal Seat tightness is as per API 598 and on specification to API 6D.

.85 Deg Door opening of Dual Plate Check Valves, offers minimum pressure drop as compared to conventional Swing / Lift Check Valves.

.Independent Torsion Spring prevents water hammer, this is a proven concept and edge over conventional valves.

.Fire Safe Design, Cryogenic Tested design for low Temperature and High Pressure design capabilities are the key features od Dual Plate Check Valves.

Wafer Check Valves



Size	MM	40MM TO 750MM	
Pressure Rating	Class	#150/300/600	
End Connection	Wafer		
MOC	Body	CI/CS/SS-304/ SS-316/ Pl. Specify	
	Internals(Trim)	Disc	CI/CS/SS-304/ SS-316/ Pl. Specify
		Ring	EPDM/ PTFE/ Pl. Specify
Manufacturing Standard	API 6D		
Testing Standard	API 598		

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Strainers

Y Strainers



Type	Y - Strainer	
Size (mm)	Y - Strainer	15 mm to 400 mm
Pressure Rating	Class	# 150 / 300 / 600
End Connection	Y - Strainer	Flanged / Screwed / SW / BW
MOC	Y - Strainer	Body Cl / CS / SS-304 / SS-316 / Pl.Specify
		Internals SS-304 / S5316
		Mesh / Perf.Sheet SS-304 (10 mesh to 120 mesh)
Certification	IBR / NBR	



Basket Type

Type	Basket Strainers	
Size (mm)	50 mm to 1200 mm	
	minimum 50 mm	
Pressure Rating	Class	# 150 / 300 / 600
	Basket	Flanged
MOC	Basket	Body CS / SS-304 / SS-316 / Pl.Specify
		Internals SS-304 / SS316
		Mesh / Perf. Sheet (10 mesh to 120 mesh) SS-304 / SS316
Certification	IBR / NIBR	



Duplex Type Strainers



Type	Duplex Strainers		
Size (mm)		50 mm to 1200 mm	
		minimum 50 mm	
Pressure Rating	Class	# 150 / 300 / 600	
	Basket	Flanged	
MOC	Body	CI / CS / SS-304 / SS-316 / Pl. Specify	
	Basket	Internals	SS-304 / SS316
		Mesh / Perf. Sheet (10 mesh to 120 mesh)	SS-304 / SS316
Certification	NIBR		

Butterfly Valves



Size	MM	50mm to 1200mm	
Type	Soft Seated/Double offset/ Triple Offset/ Metal Seated		
Pressure Rating	Class	#150/300/600/900	
End Connection	Wafer/Flanged/ Double Flanged/ LUG Type		
MOC	Body	CI/CS/SS-304/ SS-316/ Pl. Specify	
	Internals(Trim)	Disc	SS-304/ SS-316/ Nylon Coated(NDI)/ Pl. Specify
		Seat	EPDM/ PTFE/ Metal Seated /Pl. Specify
Operation	Manual/ Gear/ Actuator		
Manufacturing Standard	API 609		
Testing Standard	API 598		



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PLUG VALVES

We provide wide ranges of Plug Valves

Sizes: 15MM TO 250 MM

RATING :#150, #300, #600, PN40

MOC:- CI, CAST STEEL, CF8, CF8M, CF3M



DIAPHRAGM VALVES

Diaphragm Valves are excellent in Controlling Flow.
They are very good for Corrosive Services.
The fluid is isolated from bonnet, so there is no shaft leakage, no cavities, no accumulation, suitable for heavy chemicals.

Sizes:- 15 MM TO 350 MM

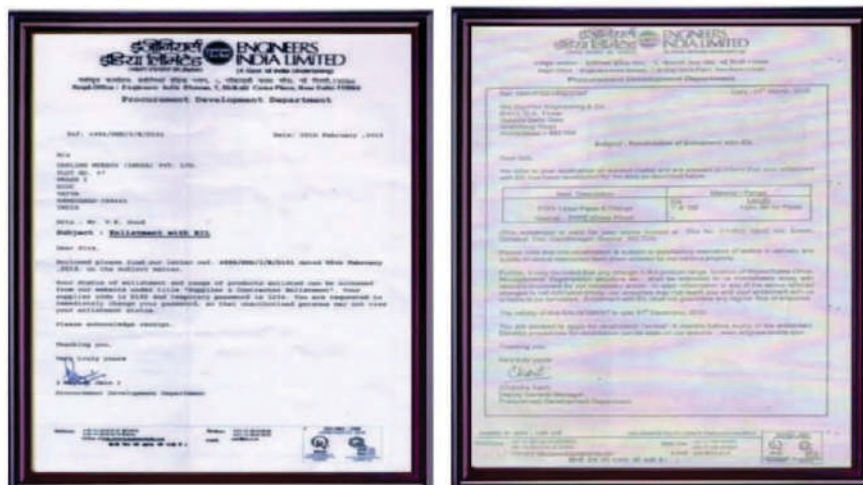
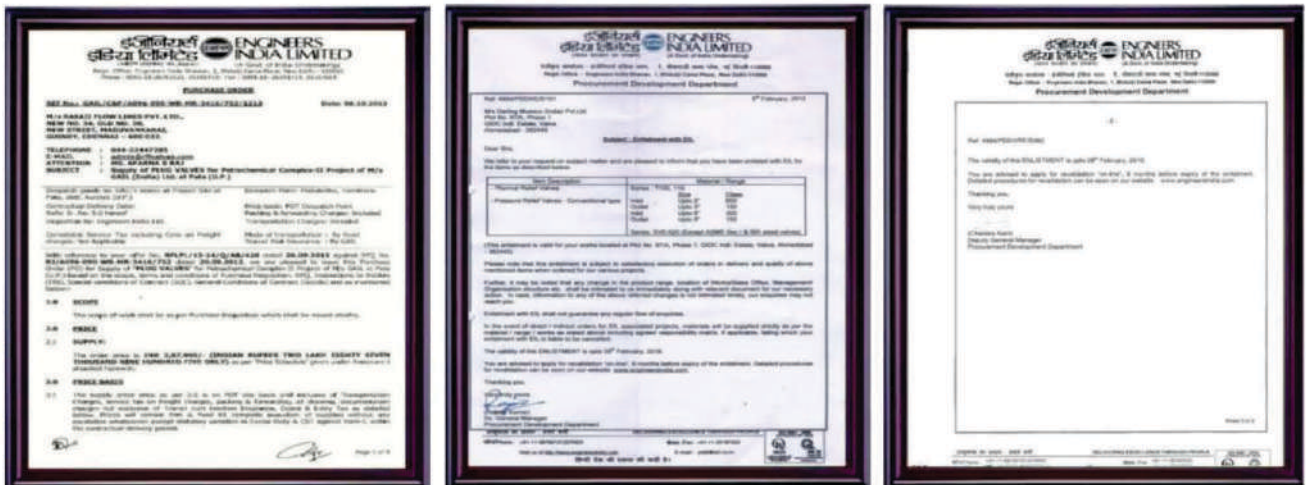
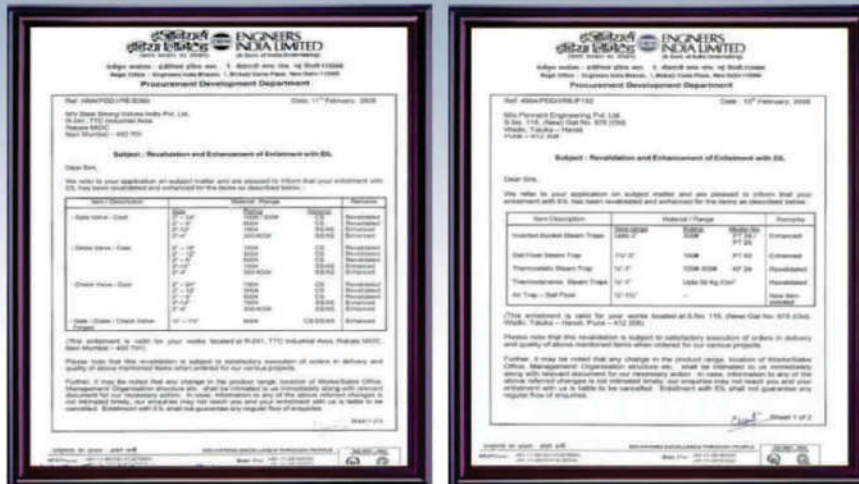
MOC:-CAST IRON

HYD TEST PRESSURE: SEAT: 10 KG/CM² & BODY: 15 KG/CM²



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Certification and Approvals



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