



Spectra-Tech

Consultancy Services



INSTRUMENTATION VALVES & ACCESSORIES

Our Presence

Spectra-Tech

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Manifolds



Two Valve / Three way valves



Two valve "T-Type" Integral Mounting



**Three Valve
(Separately Mounted Type)**



Three valve "H-Type Integral"



Five valve



T-Type Integral (Separately Mounted Type)

Body	CS, SS304, SS316	
Gland Body	CS, SS304	
Check Nut	CS, SS304	
Spindle	SS304	
Handle	SS304	
Protecting Cap	Plastic	
Temperature	500 Deg. F, 1000 Deg. F	
Pressure Rating	CS/SS 316:-6000 PSI, 4000 PSI, 1500 PSI	
FINISH C.S. - Zinc Plated, S.S. - Natural Finish		
VALVE MANIFOLDS ARE TESTED AT 6000 PSIG.		
Available Port Sizes		
1/2" NPT-8N, 1/2" BSP-8R	3/8" NPT-6N, 3/8" BSP-6R	
1/4" NPT-4N, 1/4" BSP-4R	1/2" SOCKET WELD-8SW.	
3/4" SOCKET WELD-12SW		

Orifice Flanges / Assembly



Orifice Plate Flange Assembly



Orifice Plate

Sizes & Pressure Rating	1/4" to 48" & up to 2500 class of ANSI B16.36 Std.
Flanges	WNRF, SORF, RJ
Materials	
Orifice Flange	ASTM A105, A182F316, A182F304
Orifice Plate	SS 316, SS 304
Gasket	CAF
Stud	A193 Gr.B7
Nut	A194 CL.2H
Manufactured Standard : ASME / BS / AGA standard	



Carrier Ring Orifice Plate Assembly



Venturi

Flange WNRF	ASTM A105, SS 316, SS 304
Orifice Block	ASTM A105, SS 316, SS 304
Orifice Plate	SS 316, SS 304
Gasket	CAF
Nipple	CS, SS 316, SS 304
Stud	A193 Gr. B7
Nut	A194 CL 2H, AT94 CL 2H
Flange WNRF/ SORF 150#, 300# & 600# ANSI B 16.5 can also be provided.	

VENTURI WITH WELDED SHEET FOR LINE	
SIZE	8" TO 48"
VENTURI BODY	CS, SS 304, SS 316
SOCKET 1/2" NPT(F)	CS, SS 304, SS 316
FLANGE	CS, SS 304, SS 316
COUNTER FLANGE	CS, SS 304, SS 316



Turbine Meter Based

Flange WNRF	B16.5:- ASTM A-105
SEAMLESS PIPE	A106 Gr. B
SPIRAL METALIC GASKET	CS
STUD	ASTM A-193 Gr.B7
NUT	ASTM A-194 2H
PROFILER	PROFILER:- SS 316
FLANGE FOR RTD	ASTM A-105 (WNRF)



Flow Nozzle

UP STREAM PIPE	A106 Gr. B
DOWN STREAM PIPE	A106 Gr. B
NOZZLE LONG RADIUS	SS 316
SOCKET	A 105
IBR certificate	form III-C will be furnished
One pair, pressure tapping	1/2" NPT(M) plug
Flow nozzles	ISO 5167 standard
The long radius nozzle & the ISA 1932 nozzle can be provided	



Pipe Size NB / Sch. 40	Inside Dia. 'D' mm
2"	52.5
3"	77.9
4"	102.2

Flange	ASTM A-105
Orifice Plate	SS316
Gasket	CAF
Flange	(150 # - B16.5) - CS STAND-M.S
Nipple	1/2" NP(M) - ASTM A-106
Male Connector	SS 316 1/2" NPT(F) EQUAL TEE- CS

Other Products

Tubes | Instrumentation Ferrule fittings | Needle Valve | shut off valve (Globe Valve) | Syphon for pressure gauge | Condensate pot Globe valve-OS & Y Type | Air header (10 Connections) | Gauge valve | Metering Skid-IBR / Non-IBR

Pressure Gauge



Types:

- Commercial Pressure Gauge.
- Glycerine Filled Gauge
- Diaphragm Gauge
- Differential Gauge
- Draft Gauge
- Bi-Metal Temperature Gauge Test Gauge etc.

MOC: MS& Brass Internals, All SS

Size Range: 1.5" to 8"

We also offer the most sought range of products to Service Testing, Research & Development, Engineering, Medical and Health Care Organizations, Aviation and Chemicals industry, such as, General Purpose Gauges | Sealed Diaphragm Gauge | Compact capsule Gauge | Electric contact Gauge | Mercury Temperature Gauge | Pressure Gauge Accessories.

Pressure Switches

Our Pressure, Pressure Difference, Vacuum and Flameproof Pressure Switches from Vacuum to 600 bar, Products are available with 'CE' certification & our Flameproof Pressure switches have been approved by a leading European Lab – "BASEEFA" for ATEX & IECEx certificates.



KU Pressure Switch

- >Electrical Rating:- 15A,125/250 VAC
- >Accuracy:- ±1.5% of FSR
- >Material:- SS316 & Teflon as standard wetted parts
- >Process Connection:- 1/4" BSPM

Model	+ Range Bar (psi)	*Adjustable Differential bar (psi)	Maximum Working Pressure bar (psi)
KU7	0.5 - 7.0 (7.25 - 101.50)	1.2 - 4.0 (17.40 - 58.00)	12 (174.00)
KU15	1.0 - 15.0 (14.5 - 217.5)	2.0 - 8.0 (29.0 - 116.0)	25 (362.5)
KU30	5.0 - 25.0 (72.5 - 362.5)	3.0 - 10.0 (43.5 - 145.0)	35 (507.5)

Industrial Pressure switches



High Range Pressure Switch

Range: From 0.067 barg to 25 barg



Low Range Pressure Switch

Range: From 1.5 mbarg to 350 mbarg



High Proof High Range ΔP Switch

Range: From 0.1 barg to 3.6 barg,
Pmax = 200 bar



Vacuum Switch

Range: From 760mm Hg to
-atmospheric pressure



High Proof High Range Pressure Switch

Range: From 0.067 barg to 25 barg,
Pmax = 70 bar



High Range Pressure Difference Switch

Range: From 0.1 barg to 3.6 barg



Low Range Pressure Difference Switch

Range: From 1.5 mbarg to 350 mbarg



Hydraulic Range Pressure Switch

Range: From 3 barg to 400 barg

For All Industrial Pressure switches,

Storage temperature: Atmospheric temperature
 Operating ambient temperature: (-20deg C to +60deg c)

Media temperature,

For non-metallic diaphragms 80 Deg C max,
 For metallic diaphragms 150 Deg C max

Can be offered for higher temperatures with other capsule combinations.

Set point repeatability: $\pm 1\%$ of FSR

Enclosure: Die cast aluminum to IP 66

Scale Configuration: Semi-circular scale with red pointer for precise setting

Switch output: SPDT, DPDT, hermetically sealed, gold plated contacts

Process connection:

1/4" BSP standard, other options like flanges, triclover clamps, diaphragm seals available.

Approximate weight: 2 kgs (without accessories)

Applications,

Power Generation, Burners and Furnaces, Glass and Metal Industries, Chemical Industries, Steel Industry, Hydraulic, Steam and Gas Turbines, Boilers & Compressors, Machine tools, Railway braking systems, Water treatment, Sugar and Paper Mills, Fire protection Surgical gas, Breweries, Milk industries, Tyre Industry, Natural Gas, LPG storage and transportation

Flameproof Pressure Switches



High Range Pressure Switch

Range: From 0.067 barg to 25 barg



Low Range Pressure Switch

Range: From 1.5 mbarg to 350 mbarg



High Range Pressure Difference Switch

Range: From 0.1 barg to 25 barg



Low Range Pressure Difference Switch

Range: From 1.5 mbarg to 350 mbarg



Vacuum Switch

Range: From 760 mm Hg to -atmospheric pressure



Hydraulic Range Pressure Switch

Range: From 0.5 barg to 400 barg

For all Flameproof Pressure switches,

Storage Temp.: Atmospheric temperature

Operating ambient Temp.: (-20 deg c to 60deg C)

Media temperature:

for non-metallic:-diaphragms 80deg C max,

for metallic:-diaphragms 150deg C max

Set point repeatability : ±1% over full range

Enclosure details : Al grade LM6 / Grey Cast Iron Casing / Stainless Steel & Cover

Enclosure Specifications :

Protection : IP66 Standard

Complies to:- Exproof to IS/IEC 60079-1 for group II-A,II-B & II-C, Grey CI enclosure for mines (Group I applications)

Switching elements: Choice of hermetically sealed, gold plated, DPDT etc.

Process Connections :

¼" BSP,

¼" NPT standard,

½" NPT (F) and (M) (other options like flanges, diaphragm seals available on request).



High Range Pressure Switch

Storage Temp: Atmospheric temperature

Operating Ambient Temp: (0deg c to 60deg C)

Media temperature:

For non-metallic:-diaphragms 80deg C max,

Higher with metal diaphragms

Set point repeatability: ±1% over full range

Enclosure details: Al grade LM6 / Grey Cast Iron Casing / Stainless Steel & Cover

Enclosure Specifications: II 2 GD Ex d IIC Gb Ex tb III Db T85 deg c (-20 deg c <Ta<+60deg c)

Protection: IP66 Standard

Complies To: IS/IEC 60079-1:2007, EN 60079-0:2009, EN60079-1:2007, EN60079-31:2009

Grey CI enclosure for mines (Group I applications)

Switching elements: 1 SPDT (2 SPDT ON REQUEST)

Temperature Sensors

Thermocouple, RTD & Thermowells

We Supply Temperature sensors that detect precise temperature reading for our clients in extreme conditions like intense pressure, heavy vibrations and high-flow velocities.

Our products are able to consistently measure exact temperature data for highly demanding sectors such as petrochemicals, power, Iron & Steel industries.



Thermocouple



Thermowell



RTD's



Temp Sensors Accessories

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