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RADIANT FLOW ENGINEERS

www.radiantflowengg.com



We at Radiant....

We have a great pleasure in introducing ourselves as a manufacturer & supplier of various types of Industrial valves, Aseptic application valves & pipe fittings. We are in this field of manufacturing since past more than 30 years.

We have excellent in house machining, buffing & polishing, Rubber lining & Testing facilities. We specialize in particular types of valves for used in Beverage, Brewery, Chemical plants, Cosmetic, Dairy, Food, Fertilizer, Heavy water plant, Oil & Gas, Mining, Paper mill, Power plant, Pharmaceutical plants, Sugar mill, Water & Effluent treatment plant & Allied industries for handling abrasive & corrosive media.

All our valves are complied with all international standards, such as ASA, BS, DIN etc & manufactured to achieve the finest quality & workmanship to provide trouble free performance. All our raw materials thoroughly tested, inspected & approved prior to assembly. All our valves are fully tested such as body, seat & back seat as required for type of a valve. Lined valves are check for spark leak, Rubber lined valve shore hardness in respective shore A & D are check to ensure life of a lining. We also conduct rubber compound check with third party in case of client requirement. We also provide FDA compliance rubber parts in varieties of rubber such as EPDM, Butyl, Silicon & Viton rubber. We also well come any third party inspection. For any further inquiry please do ask us.

Now, we request you to scrutinize your application, enlist our name in your list of supplier for industrial valves, aseptic application valve & pipe fittings, send us your inquiries to us,

Awaiting, to hear from you very soon, Thanking you,



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Aseptic Application Valve

Loop Valve

Zero Dead Leg



Sanitary T/c Non Return Valve

T Type Zero Dead Leg



T/C Full Sanitary Finish

Stainless Steel
Pneumatic Actuator



T/C Full Sanitary Finish



Pneumatic Actuator

Sampling Valve





HPE

T/C End Butterfly Valve with Pneumatic Actuator



Sanitary T/c Ball Valve



3 Way T/c Ball Valve



Sanitary Flow Diverter Valve





Aseptic Application:

M.O.C: Investment casting & forging of all grades of Stainless steel.

Finishing: Fully electro polished & Sanitary finish as required. Bore is Mechanically polish having µm 0.8 — 0.4 microns.

Operation: Manual, Pneumatic & Electrical actuator.

Size: DN 08 - 100. (In OD & NB).





Food & Beverage Valve

SMS Connection Butterfly Valve



Butt Weld End Butterfly Valve with Control Cap



Butt Weld End Mix Proof Valve with Control Cap



2 & 3 Way Plug Valve





SMS Connection Flow Diverter Valve





Ball Valve

3 pc Design Ball Valve Flange End





3pc Design Ball Valve Screw/ Socket weld End





3 Way Ball Valve - L & T Type Flow Screw /Flange end



Ball Valve:

Mfg. Standard: BS 5351 / ISO 17292 End Connection: Flanged to ASME B 16.5

Screwed to BSP/NPT ANSI B 21, Socket weld ASME B 16.11

Design: 1 piece, 2 piece, 3 piece (3 way, 4 way)

Testing Standard: BS 6755 Part-1/API 598

M.O.C: CI, CS, SS (I.C), F.S. and alloys such as Duplex steel, carpenter steel,

Monel, complying I.S., ASTM standards etc.

Lining: FEP & PFA lined valves.

Operation: Lever, gear operated & Pneumatic actuated.

Pressure rating: 150, 300, 600, 900, class

Size range: 9mm to 200mm.



Butterfly Valve

Flange End Butterfly Valve



Butterfly Valve







Butterfly Valve:

Mfg Standard: BS 5155.

End Connection: Wafer/ Double flanged suitable to 150 class,

PN10/PN16, E & F Table

Design: Rubber molded & renewable sleeve in rubber & PTFE.

Centric and off centric design.

Testing Standard: BS 6755 Part-1/API 598

M.O.C: CI, CS, SG & Stainless steel. Aluminum Bronze.

Lining: FPDM, Nitrile, Silicon, Neoprene, Butyl, Viton.

Operation: Lever, gear operated, Pneumatic rotary actuated.

Pressure rating: PN10, PN16, 150 & 300 CLASS

Size range: 50mm to 600mm



Range of Gate Valves

Fabricated Knife Gate Valve





Lug Pattern Design Investment Casting





Knife gate Valve:

Mfg. Standard: MSS SP 81

End Connection : Wafer Full round body, lug, Semi lug pattern suitable to ANSI B16.5 class 150. **M.O.C :** Cast Iron, Ductile Iron Cast steel, All grades of Stainless steel & Duplex steel.

Seat: Metal to metal & Soft seat, Soft (A) Rubber (B) PTFE.

Operation: Manual, Gear operated, Pneumatic & Electrical actuated.

Pressure rating : PN16, 150 CLASS **Size range:** 50mm to 400mm

Flow Direction: Uni Directional & Bi Directional.

Gate Valves - # 150 / 300 / 800 / 1500



Pulp Valve



Pulp Valve:

Mfg. Standard: MSS SP 81

End Connection: Wafer Drill to BS 10 Table D/E.

Application: Handling thick slurries.

Flow Direction: Bi Directional.

Easy to clean valve on line from bottom without disturbing line.

Gate Valve:

Mfg. Standard: Complies to API 600 Face to Face Std: ASME B 16.10 End Connection: ANSI B16.5 Testing Std: API 598

M.O.C: Cast steel, All grades of Stainless steel, Duplex & Super Alloys.

Operation: Manual / Manually Gear Operated

Size range: 15mm. to 300 mm.



Forged Steel Valve

A105, F304L & F316L Forged Steel Valves with Screw End / Socket End/ Butt Weld End Connection





Non Return Valve

Non Slam Check Valve / Single Disk Check Valve # 150



Mfg. Std.: DIN EN 558-2.
Testing Std.: API 598.
Size Range: DN 15 - 300.

Application:

in Delivery Line of Pumps.

in Steam and Condensate Systems.

in Vessels as foot Valve.

in Filtration and Ion-exchange Process.

in Refrigeration Plants and Air Conditioning Systems.

in Air Line, Water & Effluent Plants, Corrosive Liquids & Gases.

Check valves:

End Connection: Wafer, Flange & Lugs.
Testing Standard: BS 6755 Part1
M.O.C: CI, CS, & Stainless steel.

Pressure rating: PN10, PN16, 150, 300, 600 & 900 CLASS.

Dual Plate Check Valve #150, 300, 600 & 900.



Mfg. Std.: API 594.
Testing Std.: API 598.
Size Range: DN 15 - 600.

Wafer Type Check Valve # 150, 300.



Mfg. Std.: API 6D Testing Std.: API 598. Size Range: DN 15 - 600.



Diaphragm Valve

Weir 'A' & 'S' Pattern

Flange End Diaphragm Valve

Rising Spindle Type



Rising Hand wheel Type





Screw End Diaphragm Valves







Pneumatic Actuator: Single / Double Acting









Socket Weld ASME B 16.11



Diaphragm valve:

Mfg. Standard: BS EN 13397 / BS 5156 / MSS SP -88.

F to F. Standard: BS 2080 & DIN 3202.

End Connection: Flanged, Butt weld, Socket weld, T/C, Spigot, Screw. Weir A pattern & KB Straight flow type & Aseptic. Design: Fire Hydrant-Diaphragm type in weir A pattern.

Testing Standard: BS EN 12266-1: 2003

M.O.C: Industrial Application: Cast iron, S.G.Iron, WCB. Forged stainless steel.

Rubber Lining: Butyl, Ebonite, EPDM. Natural, Neoprene, NBR & Hypalon.

Teflon Lining: FEP: 160° C; PFA: 200°C. PVDF, Halar & ETFE.

Operation: Manual wheel & Pneumatic actuated.

Pressure rating: PN10, PN16, 150 CLASS 15mm to 350mm Size range:

Straight Flow Pattern / KB Type





Fluro Polymer Lined Valve

Diaphragm Valve



Plug Valve



Wafer Check Valve



Diaphragm Valve with Actuator



Ball Valve



Butterfly Valve



Ball Check Valve



Fluro Polymer Lined Pipe Fittings

















Pipe Fitting

Fittings For Pharmaceutical Application



Sight Glass







Fittings For General

SMS Union





Rubber / PTFE Parts

Also Offer under FDA compliance.









Instrumentation Valves









Needle Valves:

Application: Isolation & Throttling **End Connection:** NPT / BSPP / BSPT

Material: 316 SS / 316L SS / 304 / CS / Monel / Inconel

Hastelloy / Duplex Steel, NACE MR0175

Gland Packing: PTFE / Graphite

M.W.Pressure: 413 bar / 6000 PSI at 100° C

High Pressure Design: FPDM, Nitrile, Silicon, Neoprene, Butyl, Viton.

Model No.	Design	Size
RFE 11300	Standard	1/4" to 1"
RFE 11310 RFE 11320	Angular End High Pressure	1/4" to 1/2" 1/4" to 1"
KFE 113ZU	nigh Pressure	1/4 10 1

Gauge Valves:

Application: Isolation, Calibration or drain perpose 1/2" NPT / 6 ½ / 1/2" BSPT

Material: 316 SS / 316L SS / 304 / CS / Monel / Inconel

Hastelloy / Duplex Steel, NACE MR0175

Gland Packing: PTFE / Graphite

M.W.Pressure: 413 bar / 6000 PSI at 100° C

High Pressure Design: FPDM, Nitrile, Silicon, Neoprene, Butyl, Viton.

Model No.	Design	Size
RFE 11330	Bleed	1/4" to 1/2"
RFE 11340 RFE 11350	Vent Multiport	1/4" to 1/2" 1/4" to 1"

Manifold Valves:

Applitation: Isolation, Calibration or drain purpose

Std. ProcessConnection: 1/2" NPT F

Material: 316 SS / 316L SS / 304 / CS / Monel / Inconel

Hastelloy / Duplex Steel, NACE MR0175

Gland Packing: PTFE / Graphite

M.W.Pressure: 413 bar / 6000 PSI at 100° C Valves for 10000 PSI working

presure are also available

Manifold: 2,3,4,5 valve manifold

Drain: 1/4" NPTF (Supplied with 1/4" blind plug)

Model No.	Design	Size
RFE 11330	Bleed	1/4" to 1/2"
RFE 11340	Vent	1/4" to 1/2"
RFE 11350	Multiport	1/4" to 1"

Instrumentation Ball Valves:

Applitation: Isolation **Size:** 1/4" to 1"

End Connection: Screwed (NPT / BSPP / BSPT), Socket Weld

Material: 316 SS / 316L SS / 304 SS / CS (Special material available on request.)

Model No.	Design	Maximum Working Presure
RFE 11380	Low Presure	2000 PSI at 100° C
RFE 11390	High Presure	6000 PSI at 100° C



Instrumentation Pipe Fittings

Hex Nipple



Hex Reducing Nipple





Close Nipple



Coupling



Gauge Adapter



Pipe Plug



Reducing Bushing



Features:

1 /16" NPT to 1"

Size (pipe): End Connection: Screwed (NPT / BSPP / BSPT)

Material: 316 SS / 316L SS / 304 SS / Brass / Monel

(Bar Stock & Forging grades)

Model No.	Туре
RFE 11414	Hex Nipple
RFE 11415	Long Pipe Nipple
RFE 11416	Hex Reducing Nipple
RFE 11417	Close Nipple
RFE 11418	Coupling
RFE 11419	Gauge Adapter
RFE 11420	Reducing Bushing
RFE 11421	Pipe Plug
RFE 11422	Male Elbow
RFE 11423	Street Elbow
RFE 11424	Street Tee
RFE 11425	Male Tee
RFE 11426	Branch Tee
RFE 11427	Female Tee

Male Elbow



Street Elbow



Street Tee



Male Tee



Branch Tee



Female Tee





Female Threads (PSI)

6000

6000

5000

4500

4200

4000

Instrumentation Tube Fittings

Male Connector



Features:

NPT / ISO Pipe Size IN

Size (pipe): End Connection:

Material:

1/8" NPT

1/4" NPT

3/8" NPT

1/2" NPT 3/4" NPT

1" NPT

Model No.

RFE 11400

RFE 11401

RFE 11402 RFE 11403

RFE 11404

RFE 11405

RFE 11406

RFE 11407

RFE 11408 RFE 11409

RFE 11410 RFE 11411

RFE 11412

RFE 11413

1 /8" NPT to 1"

Pressure Rating for Instrument Fittings:

Screwed (NPT / BSPP / BSPT)

(Bar Stock & Forging grades)

316 SS / 316L SS / 304 SS / Brass / Monel

316 SS & Carbon Steel

Male Threads (PSI)

9300

7300

7000

6900

6500

4800

Type

Male Connector

Unequal Union

Bulkhead Union

Equal Union Cross Male Run Tee

Male Branch Tee

Nut & Ferrules

Union Tee

Cap Female Elbow

Bulkhead Male Connector

Bulkhead Female Connector

Female Connector Equal Union





Equal Union

Unequal Union





Bulkhead Male Connector

Bulkhead Female
Connector





Bulkhead Union

Cap





Female Elbow

Equal Union Cross

Male Run Tee

Run Tee Union Tee





Male Branch Tee





Nut & Ferrules





