

PRODUCT & SUPPLIER SPECIFICATIONS:

Ball Valves

Selected Ball Valve Manufacturer should offer a broad range of Valve Products such as:

1 PC, 2 PC, 3 PC Valve Body Designs.

3, 4, 5 Way Multi-port Designs.

A Broad Pressure Class of Valve Designs - 150/300/600/ 1000/2000/3000/6000 WOG

Wide Range of Valve Materials - Carbon / Stainless / Alloy 20 / Duplex / Exotics.

Multiple End Connections - Flanged / BW / SW / Threaded / Clamp / OD-ID Tube Weld

Numerous Seat Materials - RTFE / PEEK / TFM-1600 / 50-50 / UHMPE / Metal Seats.

Offer V- Ball Control Valve Options.

Offer a Segmented V-Notch Control Valve.

Offer Special Application Designs - FM Approved Fuel Shut Off, Tank Bottom, Chlorine.

Cryogenic, Block & Bleed, Metal Seated.

Incorporate ISO-5211 Mounting Pad Features for easy valve automation.

Incorporate a Pyramidal Stem Seal Design for Low Emissions (TA-LUFT) Certification.

Offer a Broad Range of Pneumatic / Hydraulic / Electric Actuators and Accessories (Solenoids, Switchboxes, Positioners, Gearboxes, Manual Overrides, Stem Extensions, Mounting Hardware) to meet extensive Ball Valve Automation Requirements.

➤ Please consider A-T Controls as your Valve Automation Supplier.

PRODUCT & SUPPLIER SPECIFICATIONS:

Lined Ball Valves

Selected Line Valve Manufacturers should offer a broad range of Lined Ball such as:

Fully Encapsulated, Full Port Ball Valves.

Designs that incorporate a High Quality PFA Liner.

Liner to have extremely Low Gas Permeability.

Liner Thickness to be at least 3mm.

Incorporate One Piece Ball & Stem.

Offered in Broad Size Range 1/2-8 inch.

Offered in ANSI 150, Flanged Design.

Valve must be Spark Tested.

Incorporate a Split Body Design in Carbon or Stainless Steel Options.

Valve Design should be Easily Automated.

➤ Please consider A-T Controls as your Valve Automation Supplier.

PRODUCT & SUPPLIER SPECIFICATIONS:

Lined Butterfly Valves

Selected Butterfly Manufacturers should have a Broad range of Valve Products.

The Butterfly Valve Manufacturer should feature the following Features:

A High Quality PFA Lined Valve.

Liner should be a minimum of 3mm thick.

Liner shall be backed up by a Resilient Liner.

Valve design should be Bi-directional, with Bubble Tight Shut Off.

Valve shall be rated to 150 psi max line pressure.

Valve Stem should be case hardened in 17-4ph material.

Valve Packaging should be Live Loaded.

Valve shall have a Blow Out Proof Stem Design.

Body shall be Epoxy Coated.

Valve Operating Temperature Range will be 20-335° F.

BFVs will be offered in a Broad Size Range 2-24 inch.

➤ Please consider A-T Controls as your Valve Automation Supplier.

PRODUCT & SUPPLIER SPECIFICATIONS:

Control Valves

The selected Control Valve Manufacturer should offer both V-Ball and Segmented Valve Designs.

These valves should be available in a Broad Range of sizes — V-Ball - 1/2 - 8 inch, and Segmented - 1-16 inch

The Valve Bodies should be available in numerous Materials of Construction - Carbon, Stainless, Alloy 20, Hastelloy C, etc.

Numerous End Connections also need to be offered Flanged, Wafer, Threaded, Socket Weld, Butt Weld, etc.

The Control Valve Design should incorporate easy Actuation Mounting for Pneumatic and Electric Devices.

No Play Couplers should be available.

Segmented Valves should have an Attenuation Option for high pressure drop applications.

Control Valves should have both Soft Seated and Metal Seated options for a wide variety of applications.

- Please consider A-T Controls as your Valve Automation Supplier.

PRODUCT & SUPPLIER SPECIFICATIONS:

Valve Automation

Selected Valve Automation Manufacturer should offer a broad range of Pneumatic and Electric Actuators Designs for numerous On/Off, Throttling and Modulating Service applications.

The Pneumatic and Electric Actuator Designs should be rated for a considerable range of Torque Output. Numerous electrical classification (NEMA 4/4x/6/7, IP-67/68/69, ATEX) requirements should also be met.

The Manufacturer should have a broad range offering of Low Cost Rack & Pinions, High Output Scotch Yokes, Single & Three Phase Electrics, DC Powered Options, Battery Fail Safe Electrics and Spring Fail Safe Electrics.

All Actuator Designs should be designed around ISO-5211, NAMUR Top Mount & Pinion, DIN-VDI/VDE Accessory Mount and NAMUR Solenoid Mounting Global Automation Standards.

A full complements of Automation Accessories (Solenoids, Limit Switches, Positioners, Manual Overrides, Lockout Devices, Mounting Hardware, Timers, Relay, Bus Network Interface) should also be offered.

- Please consider A-T Controls as your Valve Automation Supplier.

PRODUCT & SUPPLIER SPECIFICATIONS:

Resilient Seated Butterfly Valves

Selected Resilient Seated BFV Manufacturer should offer both Wafer & Lug Style Bodies in Ductile Iron, Cast Iron, and Stainless Steel Material Options. Since the valves are designed for a wide variety of industries and applications, the valve disc material options should include Nickel Plated, 316 Stainless Steel, Aluminum Bronze, Nylon Coated, PTFE Coated and 304 Stainless Steel. Shaved disc materials should also be optional for lower torque requirements.

Seat materials options should include EPDM, Buna-N, Food Grade, Neoprene, PTFE or HT Viton. Last, Stems should be manufactured in 416 Stainless Steel with 316 SS and 17-4PH available for higher corrosion & torque concerns. A Bronze or PTFE Stem Bushing should be standard with a Buna-N Stem Seal to complete the valve assembly.

All Resilient Seated Butterfly Valves should incorporate a I.S.O. 5211 Mounting Pad and Square Stem for easy Actuator, Gearbox or Indicator Mounting.

The Manufacturer should offer a wide range of Butterfly Valve diameters such as 2-24 inch, including a 2 1/2 inch diameter.

- Please consider A-T Controls as your Valve Automation Supplier.

PRODUCT & SUPPLIER SPECIFICATIONS:

Trunnion Mounted Ball Valves

Valves shall be designed in accordance with ASME B16.34 and API 6D.

All valves shall carry the API 6D monogram.

Valves will be available as either single piston effect (Double Block & Bleed) or double piston effect (Double Isolation & Bleed), per API 6D.

Available valve sizes shall be 2" and larger.

Available in pressure classes 150# to 2500#.

Soft seat material options good to 400°F and suitable for a variety of applications.

Metal seat material options good for high temperature (932°F) and severe corrosive/erosive service applications.

The valve seats shall be the self-relieving type when the valve is specified as Double Block & Bleed type.

Valves shall be equipped with blow-out proof stem.

All valves shall be equipped with an anti-static device.

Valve stem design shall be certified per API 641 or ISO 15848-1 to be low emission (<100 ppm).

Valve design shall be fire safe in accordance with API 607 or API 6FA.

- Please consider A-T Controls as your Valve Automation Supplier.