

**XOMOX**

*Process Valves & Actuators*

**CRANE**

**RESISTOFLEX**

*Chemical Resistance Ratings for  
Corrosion Resistant Lined Pipe & Fittings*

**Saunders**

**LINED DIAPHRAGM VALVES  
FOR ABRASIVE SERVICES**

**ASAHI AV VALVES**

**PRESSURE RATED CORROSION RESISTANT  
PLASTIC VALVES**



**PT. UNGGUL PRAKARSA PRISMA**

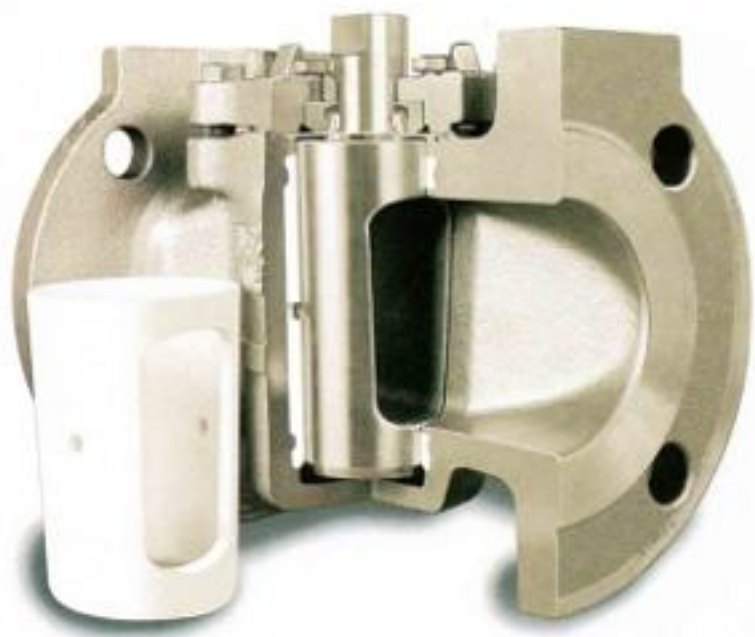
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Choose from a variety of sleeve materials - from standard PTFE to the Tufline-600 sleeve which provides improved valve performance, plus an operating temperature range up to 600°F.



Two environmental stem seals are standard.



Fire-tested and Tertiary-Top-Seals are available.

## Only Tufline® Sleeved Plug Valves offer all these unique features:

- Improved performance and greater reliability in traditional ball and gate valve applications.
- A large, circumferential sealing surface.
- No cavities where flow media can accumulate, contaminate, or mix.
- High reliability, even after being left open or closed for extended periods of time.
- Bi-directional flow.
- Quarter-turn operation.
- Positive, in-line adjustment of both primary and secondary seals.
- 360° lips surround the ports, protect the sleeve, and provide self-cleaning action as the plug rotates.
- Flanged, screwed, socket-weld, and butt-weld ends. Other connections available upon request.
- Simple actuation, compact size, configurations, on/off, and throttling service . . .  
 . . . all allow more flexible and economical system design.



Full-port valves.



Extended packing with a patented shrink-seal lip.



Severe service valves for hazardous media and extreme thermal cycling.



3-way valves.



3-way full port valves.



4-way and 5-way valves.



Bar stock valves.



Screwed end and weld-end valves.

**Additional configurations include:**

- Jacketed
- Fire-Tested
- Double Block & Bleed
- Caged-Control
- Sampling
- Tank Car
- Chlorine Service
- HF-Alkylation
- Vented Plug



1-piece, 2-piece, and 3-piece Xomox Process Ball Valves.



Xomox's, patented, live-loaded **S2** sealing system provides superior stem sealing in the most demanding applications. The spherical design of the **S2** seal and stem assures continuous contact, even during stem side loading.

Dual body gaskets are standard, a PTFE chemically inert seal and a secondary FT graphite seal.

Xomox's "patent pending", diamond shaped, thermally assisted PTFE body seal, will seal at all temperatures in its design range, even during thermal cycling. This unique design takes advantage of the differences in the rates of thermal expansion between the PTFE and metal to enhance the seal.

Xomox Process Ball Valves are available in the following configurations:

- One-piece flanged.
- Two-piece flanged.
- Three-piece screwed, socket-weld, and butt-weld ends.
- Sizes 1/2 through 8 inches.
- ANSI Class pressure ratings of 150, 300, and 600.
- Xomox Ball Valves provide tight shutoff from vacuum through rated pressure at temperatures from -20°F to 450°F.

- Patented, axially-pliant, pressure-assisted seat assures tight sealing and extended service life.
- Positive, bi-directional flow.
- Double-offset and eccentrically mounted disc extends seat life and reduces downtime.
- The seat is protected from abrasion, erosion, and corrosion.
- There are no springs to break, no O-rings to swell, and no hoops to erode.
- Symmetrical seat replacement is fast and mistake-proof.
- Low-torque seating for easier actuation.



The patented seat is axially pliant. Unlike other seals, there is no radial stretch. When the valve opens, the seat flexes axially. It does not "reflex" into the flow path.



Series 7000



Wafer & lug styles

Steam traced

Enhanced fugitive emissions control

**Additional configurations include:**

- Fire-tested
- High temperature
- Jacketed
- Extended packing



Rail tank car valve



Cryogenic

- Available in sizes 2" to 48".
- Available in Wafer or Lug style body (2" to 30").
- Double flange style body for 36" to 48" valves.
- Wafer body features four alignment holes.
- 2" to 12" - 200 psi.
- 14" to 48" - 150 psi.
- Ideal for on-off or throttling services.
- Available with handles (2" to 8"), manual gear operators (2" to 48"), and electric or pneumatic actuators (2" to 48").
- Designed to comply with MSS SP-67.
- Compatible with ANSI 125/150 flanges.
- Bi-directional dead-end capability to 200 psi (2" to 12") and 150 psi (14" to 24") is available.

## Butterfly Valves

## Severe Service Butterfly Valves

## Saunders Industrial Diaphragm Valves



Series 7500



- Xomox Series 7500 Butterfly Valves are used in demanding service applications.
- Xomox Series 7500 Butterfly Valves are reliable, low maintenance shut-off and control valves.
- Designed for use in gas and liquid pipelines, to a maximum working pressure of 230psi.
- Equipped to handle an operating temperature range of -30°F to +300°F.
- An economical alternative to plug, gate, and ball valves.
- Select from a wide variety of materials of construction options.

- Triple offset design eliminates wear associated with sealing surface contact and maintains sealing integrity and high cycle life.
- Wide angle seat design eliminates wedging and binding of the seat / disc engagement.
- Torque seated resilient Metal Seal Ring provides reliable zero leakage bi-directional closure from -320°F to 1000°F.
- Bubble-tight closure provides process efficiency with reduced cost of maintenance.
- Self-centering disc design accommodates thermal extremes without binding.
- Robust single-piece shaft minimizes shaft deflection and permits bi-directional sealing.
- No plastics or elastomers assure an inherently fire-safe system.



- Weir straight-through and high-flow available.
- Size range: 1/4" to 14".
- Pressure range: Vacuum to 230 psi.
- Body materials: Cast iron, ductile iron, aluminum, bronze, stainless steel, and alloy 20.
- Lining: hard rubber, Nevron, Butyl®, Hypawn®, Polypropylene®, Tezel®, glass, halar, PVDF and PFA.

## Tufline Fully Lined Plug & Ball Valves

- These valves are more versatile, and often out-perform, alloy valves.
- More economical than alloy valves.
- With FEP and PFA lining, cast, dovetail recesses and machined grooves lock the lining to the valve body casting. The locked-in lining is virtually impervious to shrinking, stress-cracking, collapse, or blowout.
- Unlike alloy valves, there is no need to inventory different valves for various applications.
- There is less chance of costly and dangerous installation errors.
- Media contamination is prevented.
- Positive shutoff.

- Tufline Lined Ball valves have a metal-to-metal body joint to control compression of the liner for assured sealing.
- The seats are easily and quickly replaced.



Standard port lined ball valves



Full port lined ball valves

## Tufline Fully Lined Butterfly Valves



- Lower torque ratings.
- Continuous disc/shaft lining.
- Triple O-ring stem sealing components are all isolated from corrosive flow media.
- Spring washer live loaded stem packing.
- Slim profile disc.
- Completely enclosed shaft bottom. No springs, seals, or washers to corrode or fail.
- Face-to-face dimensions meet API 609 specifications.

### PFA lining:

- More flexible and less bulky for more reliable and tighter sealing.
- Excellent permeation resistance.
- High Cv values.



2-way fully lined plug valves



Both the standard and full-port valves are available with extended packing for enhanced control of fugitive emissions.



3-way fully lined plug valves

# Jacketed Valves

## Tufline Fully Lined Accessories



Tufline Fully Lined Accessories are a reliable and economical alternative to costly high-alloy products.

- Wafer Swing Check Valves
- Ball Check Valves
- Piston Check Valves
- Sight Flow Indicators
- Strainers
- Tank Bottom Valves
- Poppet Check Valves
- Clamp Valves

Tufline jacketed valves provide innovative solutions for handling condensible, solidifying, or highly-viscous commodities such as sulfur, polymers, resins, pitch, and other temperature sensitive fluids.



Tufline fully-jacketed and partially-jacketed sleeved plug valves, including 3-way valves.



Jacketed, steam traced and jacketed-high-performance butterfly valves for rail tank car service.

- These rapid-draining, bottom-mounted, bottom-operated valves provide safe, reliable, and economical service in rail tank cars.
- The low-profile design significantly reduces skidding costs.
- All pertinent dimensions conform to AAR specifications.



Tufline steam traced and jacketed butterfly valves provide patented, triple-point prevention of media solidification.

- Both the shaft and the bearings are fully heated.
- The steam is channeled from the shaft, around the full perimeter of the disc, and out the bottom shaft.
- A separate steam path circulates through each side of the body assuring complete and maximum temperature control.



Tufline jacketed metal-seated plug valves.



**Xomox XRP™ Actuators**

The unique features of Xomox XRP Pneumatic Rack & Pinion Actuators include:

- A balanced pinion which does not require an external retaining clip to prevent the pinion from blowing out.
- Individual single point adjustment for both the CW and CCW directions.
- 98 degrees of total travel on the most popular sizes.
- Vertically aligned air passages allow increased air flow minimizing cycle time.



**Xomox Limit Switches**

A wide variety of switching options and other automation accessories are available.



**Matryx Rack & Pinion Actuators**

Matryx Rack & Pinion Actuators have a unique suspension system that guides each piston smoothly through its complete stroke, insuring consistent torque output.



**Matryx® Vane Actuators**

Matryx Vane Actuators provide reliable and efficient remote control of any type of rotary operation. They are used for ball, plug, and butterfly valves as well as other mechanisms such as dampers, switches, and safety devices. They are available up to 30,000 in-lbs of torque.



The Xomox Special Products Group custom-designs, manufactures, and modifies valves.



Tufline Special Products valves are used in unusual, complex, or specially difficult applications. Processors find that investing in these special valves pays off with greatly extended service life, improved overall operating efficiency, and reduced maintenance requirements.



# CRANE RESISTOFLEX.

Resistoflex specializes in solving tough fluid handling problems.

Our customers make chemicals, paper, steel, and medicine. They process food, water, & minerals, convert energy, and build cars, ships, and aircraft.

We combine the best materials with innovative manufacturing technology, to help our customers operate more reliably, safely, and cost effectively.

## Plastic Lined Pipe & Fittings

Most process plants with corrosive services are built using Resistoflex pipe. That's because our exclusive Thermalok™ and Swaging processes lock the liner in place, to eliminate differential thermal expansion problems. The result is decades of performance in most applications. Our fittings are molded using various processes which have been improved upon daily for over 50 years.

- > Liners of PTFE, PFA, PVDF, and PP
- > 1" - 24" diameter
- > Meets ASTM F1545 and ANSI, DIN, or JIS dimensional requirements
- > Ductile iron, carbon steel, or stainless steel housings
- > Conductive or nonconductive liners
- > Unpigmented option for high purity applications (PVDF & PP)

## Conquest® & Flangeless Systems

Our flangeless systems are designed to reduce the maintenance and risk associated with flanged joints. These technologies can be used separately, but the best systems combine elements to balance reduced risk with installation and operational flexibility. Connections can be reduced by 90%.

### Conquest® Joints

Patented joint uses mechanical coupling over a welded liner to eliminate maintenance and emissions monitoring

### Custom Rotolined Components

Headers, small vessels, and special fittings, lined in Tefzel® or PFA



### Multi-Axis® Precision Bent Piping

Up to 3 compound bends can cut 75% of flanges in a single piece

### 40' Extra Long Pipe

Only our exclusive locked-in liner makes it possible



## Flexible Hoses

Smooth Bore and Convolute  
Braided and Rubber Covered  
Industrial & Sanitary designs  
Teflon® or Silicone Lined

From our rugged TR hoses to specialty chlorine hoses, we have a hose for your conditions. Resistoflex introduced Teflon® hoses 50 years ago, and has improved them ever since. The remarkable, kinkproof Twister™ and high performance, smoothbore Superflex™ hoses are recent additions to our hose offering. We've also added a complete line of nominal smoothbore hoses for hydraulic applications, as well as the ResistoPure® line of sanitary silicone and Teflon® hoses. Our Hose Design Manual contains details and technical information.



## Expansion Joints

2, 3, or 5 Convolutions  
1" - 24" diameter  
Many design options



Resistoflex joints begin as paste extruded Dupont Teflon® T-62 liners, because of T-62's extraordinary fatigue resistance. Liners are then contour molded to their bellows configuration, to maintain the molecular alignment achieved during extrusion. The result is flex-life performance an order of magnitude better than most of our competitors. Refer to our Expansion Joint Design Manual for details.

## Plastic Lined Valves

We developed our line of valves to fit the unmet needs of our customers. From our exclusive clamp valve, to the unmatched performance of our poppet checks, Resistoflex valves are designed to work where others don't. Tough valves for tough service!

1" - 8" Clamp,  
Poppet Check,  
and Diaphragm  
styles in PP,  
PVDF, PTFE or  
PFA

