



Chemical Piping Systems, Inc.

2090 EXCHANGE DRIVE • SAINT CHARLES, MO 63303 • (636)443-1200 • (800)536-0043 • FAX: (636)443-0185
EMAIL: CPS_INC@PRODIGY.NET WEB: WWW.CHEMICALPIPINGSYSTEMS.COM

WE PROUDLY REPRESENT THE FOLLOWING MANUFACTURERS:

- ☆ **BIAR / PRISEMASSON**
Zero Dead Space EPA Sampling Valves, 316 S.S., Alloy, PFA Lined, Wafer, Flanged, Butt weld
- ☆ **CHEMICAL PIPING SYSTEMS**
High Alloy Pipe, Fittings, Valves & Fabrication, Hastelloy, Titanium, Zirconium, Alloy 20
- ☆ **CHEMTAINER INDUSTRIES**
Plastic Storage Tanks & Accessories
- ☆ **CHEM VALVE**
Lined Plug Valves (PFA & PVDF), Ball Check Valves (PFA & PVDF, PPL), Double Block & Bleed Valves 1"-8"
- ☆ **CRANE DUO-CHEK II**
Wafer Double Door Check Valve Duo-Chek II, Uni-Chek II
- ☆ **DRAKE PRODUCTS & SYSTEMS INC.**
Safety Spray Shields for Flanges, Valves & Expansion Joints
- ☆ **FIBERGRATE / CHEMGRATE**
Fiberglass (FRP) Grating, Stair Treads, Plate, Handrail, Structural Shapes, Platforms, Ladders, Fall Protection
- ☆ **FILTRATION SYSTEMS**
Industrial Grade Liquid Filter Bag Housings & Accessories
- ☆ **FLEXIBLE METAL HOSE**
Metal Expansion Joints & Pump Connectors
- ☆ **FLOWSERVE / DURCO / ATOMAC / AUTOMAX / MARPAC/McCANN**
Plug valves, Ball Valves, Butterfly Valves, Check Valves, Sampling Valves, Strainers, Actuators & Accessories
- ☆ **FRISCH PRODUCTS / TRICENTRIC / ADVANCED VALVE DESIGN**
High Performance Metal Seated Butterfly Valves, Frisch Dampers, Butterfly / Gate / Multi Louver, Angle Valve Diverter
- ☆ **INDUSTRIAL METAL FINISHING CO. / I.M.F**
Teflon Coated Bolts, Nuts & Studs
- ☆ **INLINE INDUSTRIES**
Ball Valves, 1-Piece, 2-Piece, 3-Piece, WCB & S.S. 2 / 3 / 4 / 5 Way Valves, S.E., S.W., B.W., Flanged, Sanitary Tri-Clamp
- ☆ **JOGLER**
Liquid Level Gauges, Level Transmitter, Laser Level Transmitter, Armored Level Gauges, Sight Flow Indicators
- ☆ **MERCER RUBBER CO.**
Rubber Expansion Joints, Rubber Hoses, Teflon Expansion Joints
- ☆ **MICROMOLD**
Custom Machine Parts, Fittings, Flanges, Gaskets, Pipe, Spacers, Strainers, Tanks, Tube, Valves, Vessels, Vessel Accessories, FEP, Kel-F, Kynar, Nylon, PEEK, PFA, PPL, PTFE & UHMW Polyethylene
- ☆ **MUELLER STEAM SPECIALTY**
Simplex, Duplex, Multi-Basket Strainers, Tee Strainers, Temporary Strainers, Turbine Strainers, Y-Strainers, U.L. Fireline Strainers, Control Checks, Silent Checks, Sure Checks, Check Valves, Line Blinds, Angle Strainers, Butterfly Valves
- ☆ **NGC / NISSHIN GULF COAST**
PTFE, PFA Fluoropolymer & TFM, Column Internals, Custom PTFE Parts, Isocontainers, Tank Trailers, Portable Tanks, Intermediate Bulk Containers (Ibc), Tanks, Columns, Reactors, Storage Tanks, Transportation Vessels, Filter Housings, Heat Exchangers
- ☆ **NIBCO / CHEMTROL**
Actuation, Ball Valve, Butterfly Valve, Gate Valve, Globe Valve, Lead Free Valve, Check Valves, Strainers
- ☆ **NICHOLSON / SPENCE**
Thermostatic Steam Traps, Orifice Traps, F & T Traps, Disc Traps, Bucket Traps, Uniflex – Gasketed Pipe Unions, Control Valve
- ☆ **RESISTOFLEX / CRANE / PSI / EDLON / 3P**
½" – 60" Plastic Lined Steel Piping Systems, Dip Pipes, Spargers, Nozzle Liners, Expansion Joints, Linings & Coatings, Glass Lined Vessel Accessories, Columns & Internals, Lined Hose
- ☆ **SIM-TECH INC.**
Polypropylene, PVDF, PVC, CPVC, Pipe, Fittings, Ball Valves, Butterfly Valves, Diaphragm Valves
- ☆ **SPEARS**
LXT, PVC, CPVC, Pipe, Fittings, Valves
- ☆ **WANNER ENGINEERING**
Stan-Cor, ANSI Standard, Solid Kynar Non-Metallic Centrifugal Pumps

☆ **SERVICES:** COMPLETE VALVE AUTOMATION-ACTUATOR REPAIR-ACTUATORS MOUNTED ON ANY VALVE-PLASTIC & PLASTIC LINED PIPE FABRICATION

☆ **STOCKED ITEMS**

DECIMAL EQUIVALENTS OF INCH FRACTIONS

Fraction	Equiv.	Fraction	Equiv.	Fraction	Equiv.	Fraction	Equiv.
1/64	0.015625	17/64	0.265625	33/64	0.515625	49/64	0.765625
1/32	0.031250	9/32	0.281250	17/32	0.531250	25/32	0.781250
3/64	0.046875	19/64	0.296875	35/64	0.546875	51/64	0.796875
1/16	0.062500	5/16	0.312500	9/16	0.562500	13/16	0.112069
5/64	0.078125	21/64	0.328125	37/64	0.578125	53/64	0.828125
3/32	0.093750	11/32	0.343750	19/32	0.593750	27/32	0.843750
7/64	0.109375	23/64	0.359375	39/64	0.722222	55/64	0.859375
1/8	0.125000	3/8	0.375000	5/8	0.625000	7/8	0.875000
9/64	0.140625	25/64	0.390625	41/64	0.640625	57/64	0.890625
5/32	0.156250	13/32	0.406250	21/32	0.656250	29/32	0.906250
11/64	0.171875	27/64	0.421875	43/64	0.671875	59/64	0.921875
3/16	0.187500	7/16	0.437500	11/16	0.687500	15/16	0.937500
13/64	0.203125	29/64	0.453125	45/64	0.703125	61/64	0.953125
7/32	0.218750	15/32	0.468750	23/32	0.718750	31/32	0.968750
15/64	0.234375	31/64	0.484375	47/64	0.734375	63/64	0.984375
1/4	0.250000	1/2	0.500000	3/4	0.750000	1	1.000000

INDUSTRY LEAKAGE STANDARDS

Code	Class or Seal Type	Test Fluid	Test Pressure	Allowed Leakage	Notes
ANSI/FCI 70-2-1994	I	---	---	---	No tests performed by agreement between use & mfg.
	II	Water or air	Lesser of 45-60 psig or max press. Diff	0.5% of full rated valve capacity	Pressure and flow measured within +/- 10%
	III	Water or air	Lesser of 45-60 psig or max press. Diff	0.1% of full rated valve capacity	Pressure and flow measured within +/- 10%
	IV	Water or air	Lesser of 45-60 psig or max press. Diff	0.01% of full rated valve capacity	Pressure and flow measured within +/- 10%
	V	Water	Max diff. press or by agreement	5 x 10 ⁻⁴ ml per min per in dia per psi	Pressure and flow measured within +/- 10%
	VI	Air or nitrogen	Lesser of 50 psig or max press diff	Per B16.104 table to 8" nom. Dia	Approx. 6 or less bubbles per min per in of dia.
API 598	Resilient Seal	Air inert gas water or kerosene	110% of maximum press. diff	No detectable leakage	---
	Metal to Metal	Air, inert gas, water, or kerosene	110% Min of 80 psig	2 bubbles/in of dia./min or 2 drops/in of dia/min	---
MSS SP61	Any	Gas	Min. of 80 psig	0.1 SCFH/in of dia.	Time Of Test 10"-18" = 60 sec 20" & larger = 120 sec.
		Liquid	110% of maximum press. diff	10 ml per hr. per in of dia.	

SATURATED STEAM PRESSURE / TEMPERATURE

PSIG	DEG. F / C	PSIG	DEG. F / C	PSIG	DEG. F / G	PSIG	DEG. F / C
0	212.0 / 100.0	50	297.7 / 147.6	175	374.4 / 191.8	350	435.7 / 224.2
10	239.4 / 115.20	60	307.3 / 152.9	200	387.8 / 197.6	375	442.1 / 227.8
15	249.8 / 121.0	75	320.0 / 160.0	225	397.3 / 202.9	400	448.1 / 231.1
20	258.8 / 126.0	90	331.20 / 166.2	250	406.0 / 207.7	425	454.0 / 234.4
25	266.8 / 130.4	100	337.9 / 166.2	275	414.2 / 212.3	450	459.5 / 237.5
30	274.0 / 134.4	125	352.9 / 178.2	300	421.8 / 216.5	475	464.9 / 240.5
40	286.7 / 141.5	150	365.9 / 185.5	325	428.9 / 220.5	500	470.0 / 243.3

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