

OPTIONS

EZ-SEAL® TOP SEAL & ADJUSTMENT SYSTEM

This product is available on FluoroSeal® Sleeved and Lined Plug Valves in ANSI/ ASME and DIN standards. In fact all DIN valves up to DN 150 come fitted with the EZ-SEAL® (patented) as standard. This innovation places FluoroSeal® Plug Valves at the leading edge of technology in the industrial valve market.

The EZ-SEAL® offers 360° simultaneous and even compression adjustment of the packing and plug, eliminating side loading. Visual indication takes the guess work out of valve adjustment and remaining service life diagnostic.

THE EZ-SEAL® CONCEPT

An easily accessible, single point frontal adjustment system that introduces the ease and precision of maintenance planning and cost savings on both manual and automated valve applications. Achievement is two-fold:

- 1. Maintenance technicians now have a trouble-free way of resealing both manual and automated valves with a single, quick and easy adjustment point (in comparison to time-consuming, cumbersome multiple adjustment bolt designs)
- 2. Visual gauging offers up-front knowledge of valve status, useful in scheduling valve change-out on shutdowns

ADVANTAGES

- No special tooling needed
- Significantly reduces recordable leakages
- Visual diagnostic
- Extended service life
- Allows for easy maintenance planning
- EZ-SEAL® Bracket and EZ-SEAL® Lock with a wide range of ISO mount patterns and five locking positions are offered in 304 SS as standard
- Allows direct mounting of actuation without inhibiting visual verification of stem status

DESIGN FEATURES SUMMARY

- 1. Single point frontal adjustment system
- 2. 360° simultaneous and even compression of top seal and plug
- 3. Plug adjustment is linear, impossible to side load
- 4. Tapered stem for increased sealing capabilities
- 5. Visual Min / Max cam adjustment indicator
- 6. Combination formed metal diaphragm and static eliminator
- 7. ISO mount stem
- 8. All-in-one ISO bracket and locking device, as standard
- 9. All components are high precision investment cast
- 10. Explosion-proof stem design
- 11. Positive shutoff



Valve with EZ-SEAL® (Patented)
Assembly



EZ-SEAL® (Patented)
Bracket and Lock



EZ-SEAL® (Patented)
Cover with Cast On Min / Max Gauge



JACKETED PLUG VALVES

FluoroSeal® offers a number of jacketing solutions to customers requiring steam or hot oil-heated two-way or multiport plug valves to prevent process line freezing: either the bolt-on full jacket, or a welded-on full or partial jacketed valves to meet your requirements.

For the most efficient heat transfer, the welded-on full jacketed plug valve is offered with oversized flanges and face-to-face to match the jacketed piping it will be mounted on. A partial jacket with standard flanges is also available as an alternate, when space constraints or alternate piping heat source drive its use.

Finally, although less efficient, the bolt-on full jacket allows for in-line heat jacketing to be applied to an installed standard plug valve, eliminating the need for a shutdown for extensive maintenance action or piping change-over.

All FluoroSeal® jackets are available in various pressure-temperature ratings in a variety of materials, fabricated according to the latest ASME and PED process piping requirements, and welded using ASME- and PED-approved welders and procedures, ensuring a safe and reliable service according to the highest industry standards.



Fig. 1 Standard Welded Full Jacket with Oversized Flanges



Fig. 2 Partial Welded Jacket



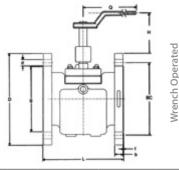


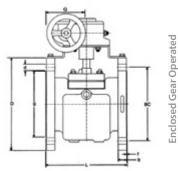
Fig. 4 Multiport with Full Welded Jacket

(Jacket Pressure Rating Available in 150 & 300 lbs)

PLUG VALVES — OPTIONS







FULLY JACKETED ANSI/ASME CLASS 150 LBS

E = Clearance required for resleeving measured from center line

EG = Enclosed gear operated

N = Number of holes

SIZE		L	I	Н	[)		K		g	ı	b	1	f	(t	(Q		E	N
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	#								
2" x 1" x 2"	7.00	177.80	7.00	177.80	6.00	152.40	4.75	120.70	3.63	92.00	0.63	16.00	0.06	1.60	0.75	19.00	9.00	228.60	8.50	215.90	4
2 1/2" x 1 1/2" x 2 1/2"	8.00	203.20	7.63	193.70	7.50	190.50	5.50	139.70	4.13	104.60	0.75	19.00	0.06	1.60	0.75	19.00	14.25	362.00	10.38	263.70	4
3" x 1 1/2" x 3"	8.00	203.20	7.63	193.70	7.50	190.50	6.00	152.40	5.00	127.00	0.75	19.00	0.06	1.60	0.75	19.00	14.25	362.00	10.38	263.70	4
3" x 2" x 3"	8.00	203.20	8.00	203.20	7.50	190.50	6.00	152.40	5.00	127.00	0.75	19.00	0.06	1.60	0.75	19.00	16.50	419.10	12.25	311.20	4
4" x 3" x 4"	9.00	228.60	9.00	228.60	9.00	228.60	7.50	190.50	6.19	157.20	0.94	23.90	0.06	1.60	0.75	19.00	16.50	419.10	13.63	346.20	8
6" x 4" x 6"	10.50	266.70	10.00	254.00	11.00	279.40	9.50	241.30	8.50	215.90	1.00	25.40	0.06	1.60	0.88	22.40	23.63	600.20	16.25	412.80	8
6" x 4" x 6" EG	10.50	266.70	11.50	292.10	11.00	279.40	9.50	241.30	8.50	215.90	1.00	25.40	0.06	1.60	0.88	22.40	14.50	368.30	17.63	447.80	8
8" x 6" x 8" EG	11.50	292.10	12.00	304.80	13.50	342.90	11.75	298.45	10.62	269.75	1.13	28.70	0.06	1.60	0.88	22.40	14.50	368.30	21.75	552.50	8
10" x 8" x 10" EG	13.00	330.20	14.25	361.95	16.00	406.40	14.25	361.95	12.75	323.85	1.19	30.20	0.06	1.60	1.00	25.40	19.50	495.30	26.63	676.40	12
12" x 10" x 12" EG	14.00	355.60	15.75	400.05	19.00	482.60	17.00	431.80	15.00	381.00	1.25	31.80	0.06	1.60	1.00	25.40	19.50	495.30	31.25	793.80	12
14" x 12" x 14" EG	15.00	381.00	14.19	360.43	21.00	533.40	18.75	476.30	16.25	412.80	1.38	35.10	0.06	1.60	1.12	28.45	27.50	698.50	33.75	857.30	12
16" x 12" x 16" EG	16.00	406.40	16.31	414.27	23.00	584.20	21.25	539.75	18.50	469.90	1.38	35.10	0.06	1.60	1.13	28.58	27.50	698.50	33.75	857.30	16
18" x 16" x 18" EG	34.00	863.60	-	-	25.00	635.00	22.75	577.85	21.00	533.40	1.50	38.10	0.06	1.60	1.25	31.75	27.50	698.50	46.00	1168.40	16
20" x 18" x 20" EG	36.00	914.40	21.88	555.75	27.00	685.80	25.00	635.00	23.00	584.20	1.62	41.15	0.06	1.60	1.25	31.75	27.50	698.50	46.00	1168.40	20

FULLY JACKETED ANSI/ASME CLASS 300 LBS

E = Clearance required for resleeving from center line

EG = Enclosed gear operated

N = Number of holes

SIZE		L	ŀ	1	[)		K		g		0		f	(t	(Q		E	N
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	#								
2" x 1" x 2"	8.50	215.90	5.00	127.00	6.50	165.10	5.00	127.00	3.63	92.00	0.88	22.40	0.06	1.60	0.75	19.00	9.00	228.60	8.50	215.90	8
2 1/2" x 1 1/2" x 2 1/2"	11.13	282.70	5.31	135.00	8.25	209.60	5.88	149.40	4.13	104.60	1.13	28.70	0.06	1.60	0.88	22.40	14.25	362.00	10.38	263.70	8
3" x 1 1/2" x 3"	11.13	282.70	5.31	135.00	8.25	209.60	6.63	168.40	5.00	127.00	1.13	28.70	0.06	1.60	0.88	22.40	14.25	362.00	10.38	263.70	8
3" x 2" x 3"	11.13	282.70	5.31	135.00	8.25	209.60	6.63	168.40	5.00	127.00	1.13	28.70	0.06	1.60	0.88	22.40	16.50	419.10	12.25	311.20	8
4" x 3" x 4"	12.00	304.80	6.10	155.00	10.00	254.00	7.88	200.20	6.19	157.20	1.25	31.80	0.06	1.60	0.88	22.40	16.50	419.10	13.63	346.20	8
6" x 4" x 6"	15.88	403.40	11.50	292.10	12.50	317.50	10.63	270.00	8.50	215.90	1.44	36.60	0.06	1.60	0.88	22.40	23.63	600.20	16.25	412.80	12
6" x 4" x 6" EG	15.88	403.40	11.50	292.10	12.50	317.50	10.63	270.00	8.50	215.90	1.44	36.60	0.06	1.60	0.88	22.40	14.50	368.30	17.63	447.80	12
8" x 6" x 8" EG	16.50	419.10	12.00	304.80	15.00	381.00	13.00	330.20	10.62	269.75	1.63	41.40	0.06	1.60	1.00	25.40	14.50	368.30	21.75	552.50	12
10" x 8" x 10" EG	18.00	457.20	14.25	361.95	17.50	444.50	15.25	387.35	12.75	323.85	1.88	47.80	0.06	1.60	1.12	28.45	19.50	495.30	26.63	676.40	16
12" x 10" x 12" EG	19.75	501.65	15.75	400.05	20.50	520.70	17.75	450.85	15.00	381.00	2.00	50.80	0.06	1.60	1.25	31.75	19.50	495.30	31.25	793.80	16
16" x 12" x 16" EG	24.00	609.60	16.31	414.27	25.50	647.70	22.50	571.50	18.50	469.90	2.19	55.63	0.06	1.60	1.38	35.05	27.50	698.50	33.75	857.30	20
18" x 16" x 18" EG	26.00	660.40	-	-	28.00	711.20	24.75	628.65	21.00	533.40	2.31	58.67	0.06	1.60	1.38	35.05	27.50	698.50	46.00	1168.40	24
20" x 18" x 20" EG	28.00	711.20	-	-	30.50	774.70	27.00	685.80	23.00	584.20	2.44	61.98	0.06	1.60	1.38	35.05	27.50	698.50	46.00	1168.40	24

FULLY JACKETED ANSI/ASME CLASS 600 LBS

E = Clearance required for resleeving from center line

EG = Enclosed gear operated

N = Number of holes

SIZE			Н		D			K		g	ı	0	H	f	(t	(Q		E	N
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	#
2" x 1" x 2"	11.50	292.10	-	-	6.50	165.10	5.00	127.00	3.62	91.90	1.00	25.40	0.25	6.35	0.75	19.10	9.00	228.60	8.50	215.90	8
2 1/2" x 1 1/2" x 2 1/2"	13.00	330.20	-	-	7.50	190.50	5.88	149.40	4.12	104.60	1.12	28.40	0.25	6.35	0.88	22.40	14.25	362.00	10.38	263.70	8
3" x 1 1/2" x 3"	14.00	355.60	-	-	8.25	209.60	6.62	168.10	5.00	127.00	1.25	31.80	0.25	6.35	0.88	22.40	14.25	362.00	10.38	263.70	8
3" x 2" x 3"	14.00	355.60	-	-	8.25	209.60	6.62	168.10	5.00	127.00	1.25	31.80	0.25	6.35	0.88	22.40	16.50	419.10	12.25	311.20	8
4" x 3" x 4"	17.00	431.80	-	-	10.75	273.10	8.50	215.90	6.19	157.20	1.50	38.10	0.25	6.35	1.00	25.40	16.50	419.10	13.63	346.20	8
6" x 4" x 6"	22.00	558.80	-	-	14.00	355.60	11.50	292.10	8.50	215.90	1.88	47.80	0.25	6.35	1.12	28.40	23.63	600.20	16.25	412.80	12
6" x 4" x 6" EG	22.00	558.80	-	-	14.00	355.60	11.50	292.10	8.50	215.90	1.88	47.80	0.25	6.35	1.12	28.40	14.50	368.30	17.63	447.80	12
8" x 6" x 8" EG	26.00	660.40	-	-	16.50	419.10	13.75	349.30	10.62	269.70	2.19	55.60	0.25	6.35	1.25	31.80	14.50	368.30	21.75	552.50	12
10" x 8" x 10" EG	31.00	787.40	-	-	20.00	508.00	17.00	431.80	12.75	323.90	2.50	63.50	0.25	6.35	1.38	35.10	19.50	495.30	26.63	676.40	16
12" x 10" x 12" EG	33.00	838.20	-	-	22.00	558.80	19.25	489.00	15.00	381.00	2.62	66.50	0.25	6.35	1.38	35.10	19.50	495.30	31.25	793.80	20
16" x 12" x 16" EG	39.00	990.60	-	-	27.00	685.80	23.75	603.25	18.50	469.90	3.00	76.20	0.25	6.35	1.63	41.28	27.50	698.50	33.75	857.30	20
18" x 16" x 18" EG	43.00	1092.20	-	-	29.50	749.30	25.75	654.10	21.00	533.40	3.25	82.60	0.25	6.35	1.75	44.50	27.50	698.50	46.00	1168.40	20
20" x 18" x 20" EG	47.00	1193.80	-	-	32.00	812.80	28.50	723.90	23.00	584.20	3.50	88.90	0.25	6.35	1.75	44.50	27.50	698.50	46.00	1168.40	24



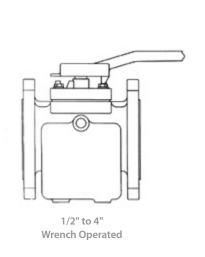
PARTIALLY JACKETED PLUG VALVES

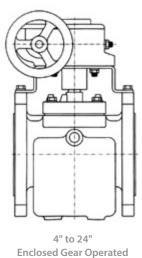
Heat dissipation due to the partial insulating effect of the PTFE sleeve, combined with the basic plug valve design, provides a more uniform heat flange-to-flange with a partial jacket than with a full jacket. Therefore, a partial jacket should be selected for most applications.

Refer to standard valves for dimensional data. Available in sizes 1" to 18".

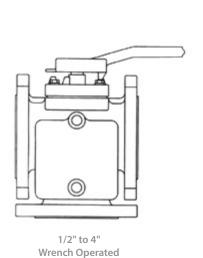
DIN Partially Jacketed Plug Valves are available upon request.

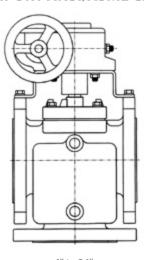
PARTIALLY JACKETED 2-WAY ANSI/ASME CLASS 150, 300 & 600 LBS





PARTIALLY JACKETED MULTIPORT ANSI/ASME CLASS 150, 300 & 600 LBS





4" to 24" Enclosed Gear Operated

JACKET INLET OUTLET AND DRAIN CONNECTIONS

VALVE SIZE	1/2"	- 2"	3" -	- 6"	8" – 24"			
	in	mm	in	mm	in	mm		
NPT	1/2	12.70	3/4	19.05	1	25.40		

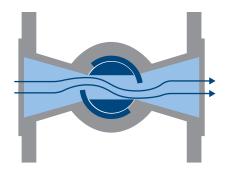
Fluoroseal

V-PORT & CHARACTERIZED PLUGS

FluoroSeal® Plug Valves are also available with Characterized Plugs for fine control applications. Standard V-Ports in 60° and other custom configurations are available in all trim materials.

The design and features of the FluoroSeal® Plug Valve makes it an excellent choice for fine throttling in slurry and chemical applications. The no cavity design allows the plug valve to throttle without exposing the stem seal to line pressure, a definite advantage over most ball valves specifically in high cycling applications.

The Cage Control V-Port Plug Valve is mostly used in highly abrasive applications offering the benefits of a metal seated control valve, with the added advantage of a bubble-tight shutoff at a fraction of the cost. This product is available in all materials from 1" to 14" (DN 25 to DN 150).



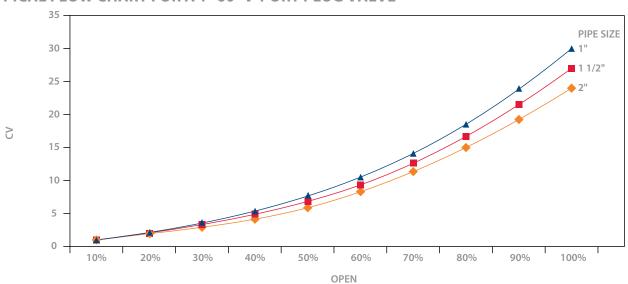
Flow Diagram

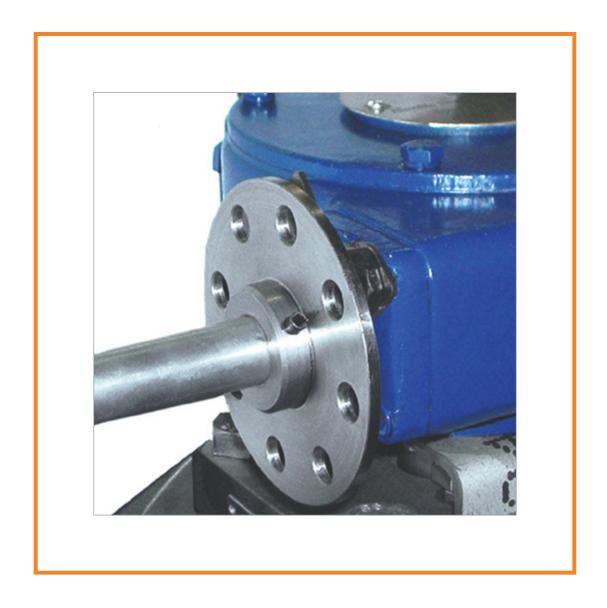




Characterized Plug

TYPICAL FLOW CHART FOR A 1" 60° V-PORT PLUG VALVE

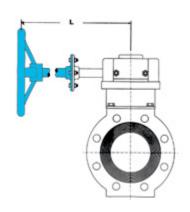


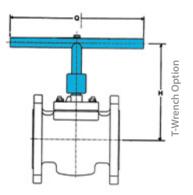


ACCESSORIES

HANDWHEEL EXTENSION — GEAR OPERATOR

Custom extension to fit your particular space requirements. Please specify the length (L) needed. Support may be required depending on the length of the extension. (To be supplied by the customer.)

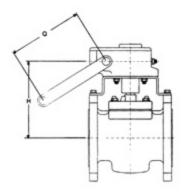




T-WRENCH AND EXTENSION OPTION

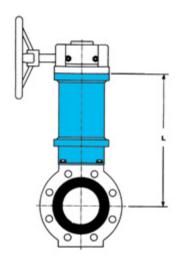
If longer "H" dimension, please specify.

	VALVE SIZE	1/2" ([ON 15)	3/4" (I	3/4" (DN 20)		1" (DN 25)		1 1/2" (DN 40)		2" (DN 50)		3" (DN 80)		N 100)
		in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
	Q	12.00	304.80	12.00	304.80	18.00	457.20	28.00	711.20	36.00	914.40	36.00	914.40	42.00	1066.80
Г	Н	6.80	172.72	6.80	172.72	7.40	187.96	8.00	203.20	8.40	213.36	9.00	228.60	9.60	243.84



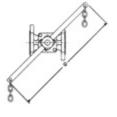
CRANK HANDLE

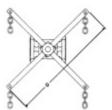
VALVE SIZE	4" EG (DN 100)		6" EG ([ON 150)	8"	EG	10"	EG	12"	'EG
	in	mm	in	mm	in	mm	in	mm	in	mm
Q	7.25	184.15	7.25	184.15	9.75	247.65	9.75	247.65	13.75	349.25
Н	10.75	273.05	11.50	292.10	13.00	330.20	15.50	393.70	17.25	438.15



STEM EXTENSION — GEAR OPERATOR

Stem extensions are used for remote operation of the valve. Actuators can be attached to the top of the extension. Specify the length (L) of the extension required and the figure number of the valve it is to be attached to.





CHAIN WRENCH

Specify the chain length required and whether the valve will be installed in a horizontal or vertical line. To calculate chain length:

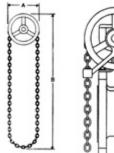
90° rotation: 1. Double required drop

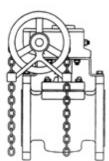
2. Multiply Q by 0.5

3. 1+2 = required chain length

180° rotation: Double calculation for 90°

VALVE SIZE	1/2" (DN 15)		3/4" (DN 20)		1" (DN 25)		1 1/2" (DN 40)		2" (D	N 50)	3" (D	N 80)	4" (DI	N 100)
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
Q	13.00	330.20	13.00	330.20	16.00	406.40	24.00	406.40	36.00	914.40	36.00	914.40	60.00	1524.00





CHAIN WHEEL

Specify the chain length required and whether the valve will be installed in a horizontal or vertical line. To calculate chain length:

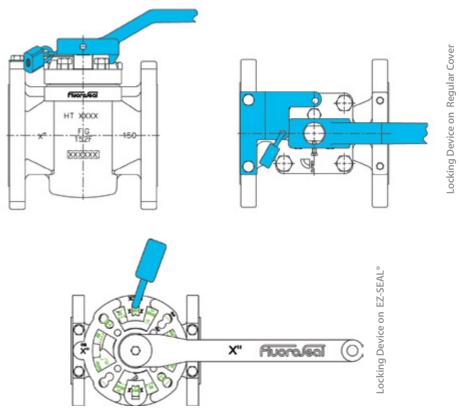
- 1. Double required drop B
- 2. Multiply chain wheel diameter A by 2.6
- 3. 1+2 = required chain length

PLUG-SLEEVED-R003-2025



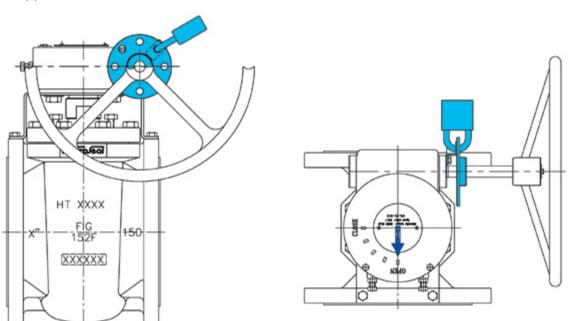
WRENCH OPERATOR LOCKING DEVICE

Padlock is not supplied.



GEAR OPERATOR LOCKING DEVICE

Padlock is not supplied.





TECHNICAL DATA

OUR ENGINEERING COMMITMENT

We will assist you in making the most appropriate selection of alloys and polymers to suit your application. We will provide you with CV factors and other necessary flow calculations, therefore making your decision process as easy as possible. We will work together with you to develop the best valve possible, no matter what your industry sector. Our Engineered Solutions Division (ESD) is staffed with highly skilled engineers, technicians and draftsmen specialized in modifying existing designs to meet your specific needs.

Please consult our website, www.fluorosealvalves.com, for the most up-to-date listing of torque and CV values.







Mining





Power Generation

QUALITY ASSURANCE

FluoroSeal® Plug Valves possess all of the best design features presently available in a non-lubricated valve. They are inspected throughout the full manufacturing process from foundry to final assembly and packaging to assure high quality and consistency in every unit.

All internal processes are vetted according to best standard industry practices, inspections performed with equipment subject to periodic calibrations, and for special processes, such as welding, procedures and operators are fully qualified to the requirements of the ASME Boiler and Pressure Vessel Code, as well as to PED/CE requirements.

Please consult our website, www.fluorosealvalves.com, for the latest copy of our ISO, PED and AD Certificates.

TESTING

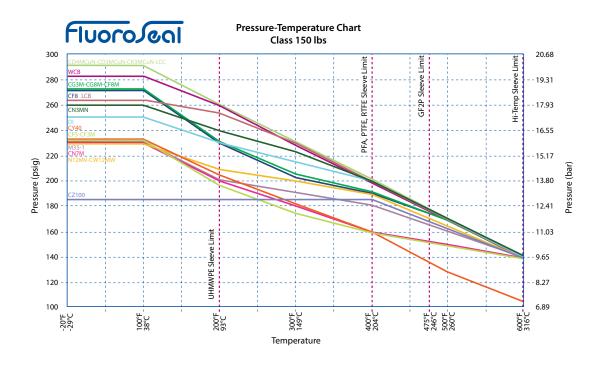
All FluoroSeal® valves are pressure tested prior to shipment to ensure full compliance with ANSI B16.34 and MSS SP-61 (or DIN EN 12266-1) shell and seat test requirements. At customer option, API 598 requirements can also be met.

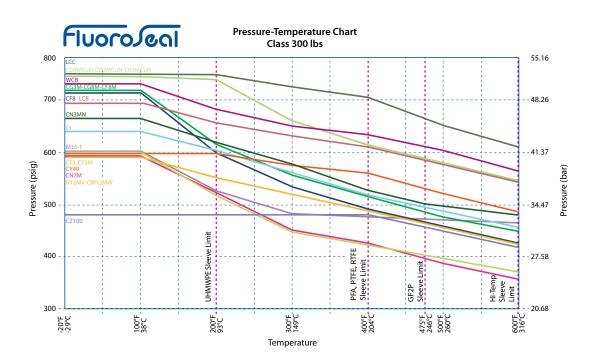
All high nickel alloy valves are also shell tested with helium on a standard basis. In addition, non-destructive tests such as radiographic, liquid penetrant or magnetic particle evaluations can be performed to various requirements, at customer option.



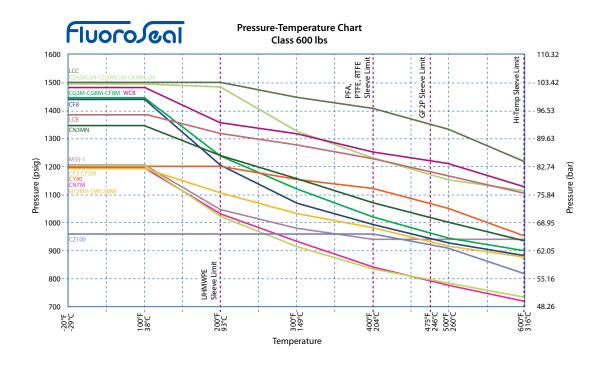


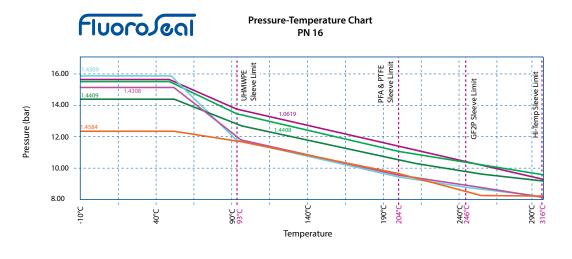
MATERIAL PROPERTIES

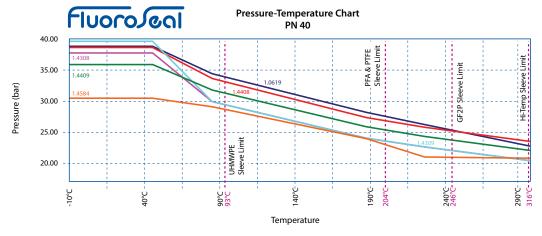








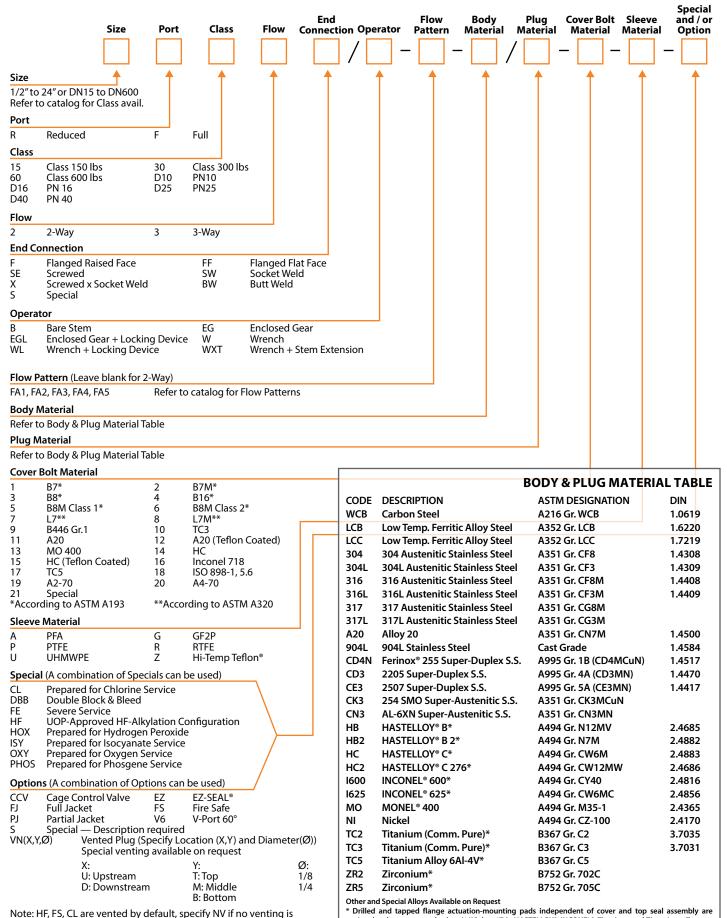






SLEEVED PLUG VALVES ORDERING INSTRUCTIONS

optional on lever-operated valves (1/2" thru 4") in HASTELLOY®, INCONEL®, Titanium, and Zirconium alloys.



required for these options.

TERMS & CONDITIONS



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NUCLEAR PLANTS Where the products, engineering design or fabrication is for nuclear plant applications, Buyer agrees (a) to take all necessary steps to add FluoroSeal Inc. as an insured under the American Nuclear Insurers (ANI) pool and under the Mutual Atomic Energy Reinsurance Pool (MAERP) for property damage and liability insurance and if necessary steps could have been taken, but are not taken, Buyer shall hold FluoroSeal Inc. harmless against all such losses which could have been thus covered; (b) Buyer agrees to hold FluoroSeal Inc. harmless with respect to any personal injury or death, property damage or any other loss in a nuclear incident which is caused directly or indirectly by defective design, material, or workmanship, furnished by FluoroSeal Inc. and which is covered by insurance maintained by Buyer (or which could be so covered but with respect to which Buyer has elected to self-insure), and further agrees to waive subrogation by its carriers of such insurance against FluoroSeal Inc.; (c) as to nuclear hazards for which Buyer cannot obtain insurance coverage, the liability of FluoroSeal Inc. for any personal injury or death, property damage or any other loss directly caused by defective design, material, or workmanship furnished by FluoroSeal Inc. shall not exceed the value of the material furnished by FluoroSeal Inc. at the time of the loss occurrence.

MINIMUM INVOICE \$250 plus shipping.

TERMS Cash, net 30 days unless otherwise specified.

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