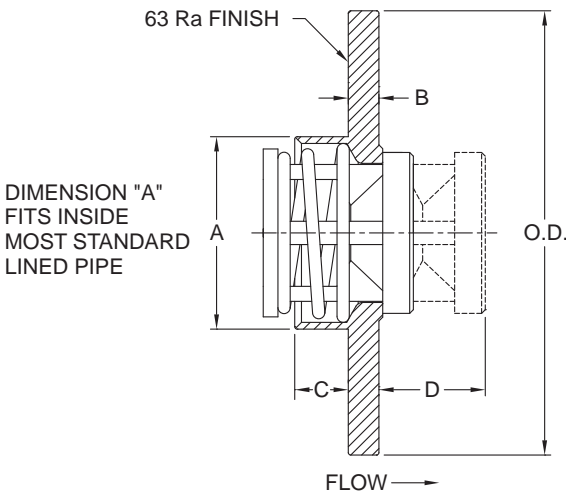


The **Lined Pipe Insert (LP)** valve is designed to mate between two flanges on most lined pipe systems. It provides the simplest and most economical way to install a check valve in a lined piping system. No gaskets are required; just spread the flanges, center the valve and bolt the flanges together. LP valves are available in fluoropolymer (PTFE/FEP/PFA) and Alloy C-276 to satisfy the most demanding applications. The standard spring material is Alloy C-276. Other materials are available upon request. The LP valve can also be used as a low pressure relief valve or vacuum breaker by using the desired spring settings.



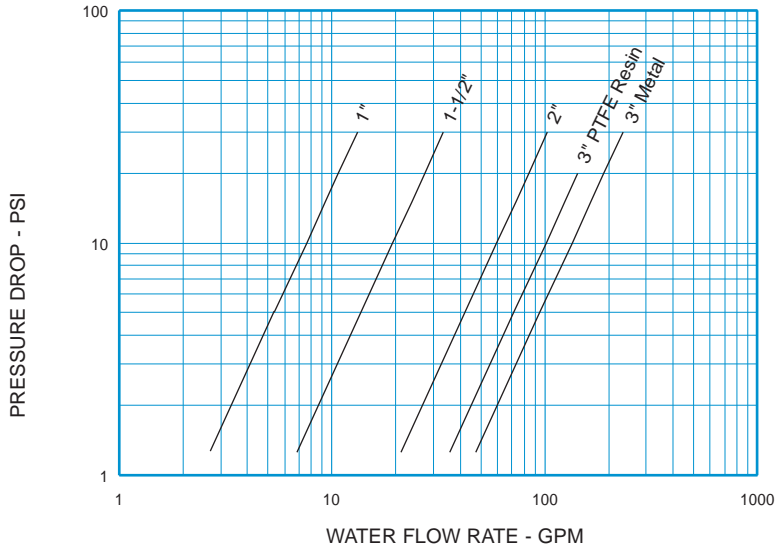
Nom. Pipe Size	Size Code	A	B	C		D ¹	OD	Orifice ² Diameter
				PTFE	HC			
1	H	0.590	1/4	0.26	0.26	0.53	2	0.348
1-1/2	J	1.120	1/4	0.46	0.42	0.78	2-7/8	0.593
2	K	1.570	1/4	0.79	0.44	1.01	3-5/8	1.135
3	M	2.520	5/16	0.77	0.66	1.43	5	1.555 ³

- ¹ Maximum nominal dimension for a fully open valve with no spring.
- ² Orifice Diameter for PTFE valve may vary due to molding process.
- ³ 3" PTFE valves use 1.385 Orifice Diameter.

Body Material ⁴	Nominal Pipe Size	Non-Shock Pressure-Temperature Rating
Alloy C-276 (HC)	1" - 3"	ANSI Class 150 & 300
PTFE (TF)	1" - 2"	55 PSIG @ 100°F ⁵
	3"	20 PSIG @ 100°F ⁵

- ⁴ See page 54 for material grade information. Contact the factory for availability of other materials.
- ⁵ Consult the factory for reduced P-T rating above 100°F.

Lined Pipe Insert
For Water at 72°F

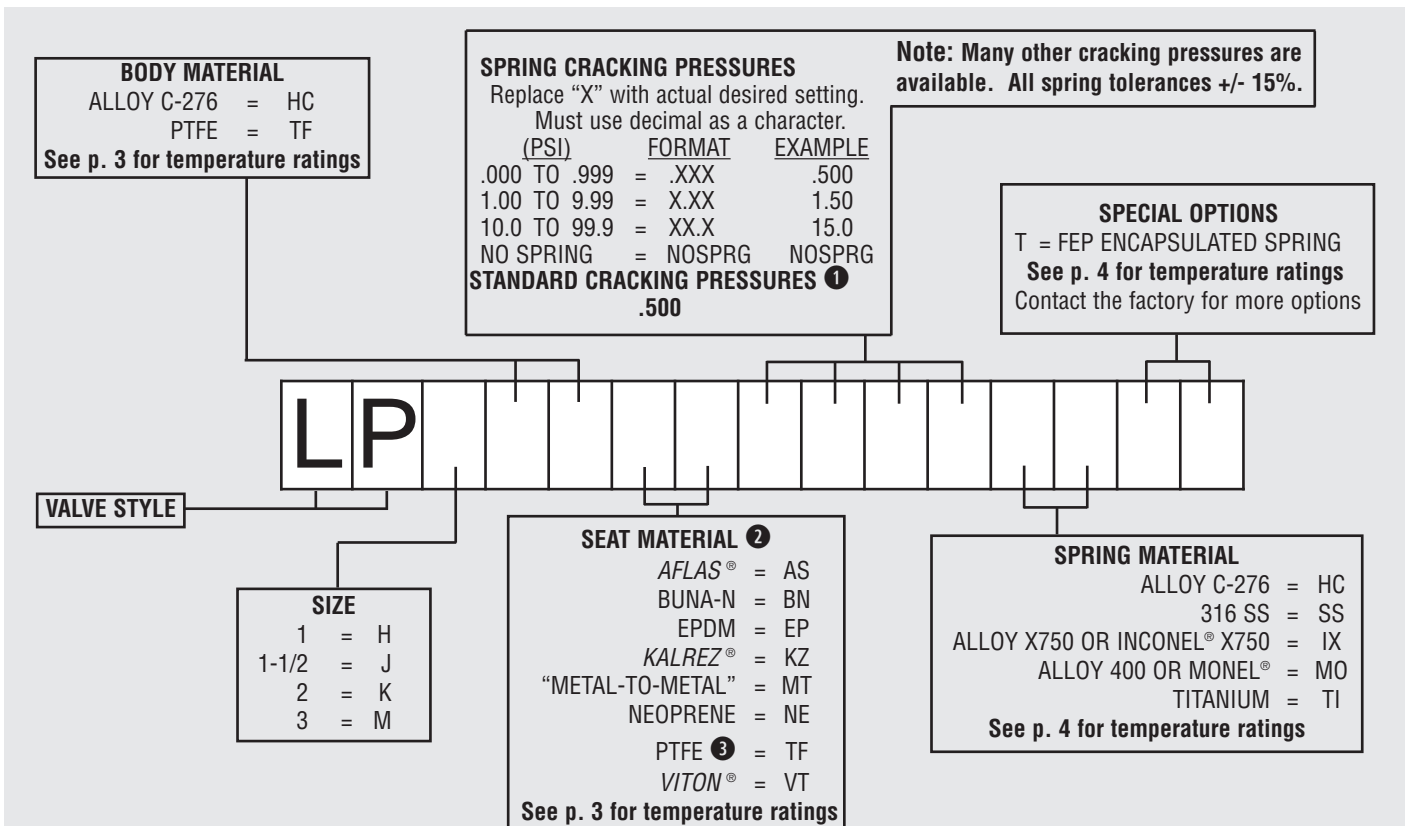


Note: All flow curves and Cv values presume the valves are fully open with 1/2 PSI cracking pressure springs. Consult the factory for more information.

STYLE LP C _v VALUES & VALVE WEIGHTS				
METAL C _v	PTFE C _v	SIZE	METAL	PTFE
2.4	2.4	1	4.0 oz.	1.0 oz.
6.1	6.1	1-1/2	8.8 oz.	2.2 oz.
18.8	18.8	2	14.4 oz.	3.2 oz.
45.8	32.0	3	2.3 lb.	9.0 oz.

See page 49 for Flow Formulae.
Valve weights are approximate.

**HOW TO ORDER
CHECK-ALL STYLE LP**



Listed above are the most common material selections. Please contact the factory for additional options.

- ① .500 PSI is the only standard cracking pressure for spring materials other than Stainless Steel. .125 PSI springs are not recommended for installations with flow vertical down.
- ② "Metal-to-Metal" and PTFE seats are not resilient. See page 50 for allowable leakage rates.
- ③ For PTFE valves, "TF" o-ring seats are not available, "MT" seats mean plastic to plastic. (No o-ring)