Flow-Control Orifices & Iris-Style Valves

For information about orifices, see page 483. For information about pipe size, see pages 2-3.

Pipe OD to Pipe Size Conversions						
Pipe OD 3/8" 1/2" 5/8" 3/4"	1" 1	13/8" 15/8"	17/8" 23/8"	31/2"		
Pipe Size 1/8" 1/4" 3/8" 1/2"	3/4" 1	1" 11/4"	11/2" 2"	3"		

Acetal Instant Tube-Fitting Orifices Maximum Pressure: Not rated • Temperature Range: Not rated



Tube x



Tube x

Tube

Instant (push-to-connect) fittings seal on the outside of tubing for a quick connection. Use these orifices to control flow anywhere in your tubing system. Orifices have an acetal body with a brass insert. Release ring is acetal with stainless steel teeth. O-ring seal is Buna-N. Color is gray. Connections: See table.

To Order: Please specify orifice diameter: 0.016", 0.018", 0.020", 0.021", 0.023", 0.022", 0.025", 0.026", 0.028", 0.029", 0.032", 0.033", 0.035", 0.038", 0.040", 0.042", 0.047", 0.052", 0.055", or 0.063".

	Pipe Size		Each	For Tube OD			Each
Tube x N	IPT Ma	ale		Tube	NPT M	lale (Cont.))
3/16"	1/8"	.6349T115	10.71	1/2"	1/2"	6349T17	\$11.29
1/4"	1/8"	6349T12	10.71	Tube	Tube		
1/4"	1/4"	6349T13	13.57	3/16"	—	6349T41	10.71
3/8"	1/4"	6349T14	11.29	1/4"		6349T42	10.71
3/8"3	3/8"	6349T15	11.29	3/8"		6349T43	11.29
1/2"	3/8"	6349T16	11.29	1/2"		6349T44	11.29

Acetal Check Valves with Instant Tube Connections



Inline, Tube x Tube Connections

● Maximum Pressure: 145 psi @ 68° F

Cracking Pressure: 0.29 psi
 Temperature Range: 34° to 159° F

90° Elbow, Tube x NPT Male Connections Maximum Pressure: 150 psi @ 70°F
 Cracking Pressure: Not rated

• Temperature Range: 32° to 125° F Simply push your tubing into the end of these check valves and you're

ready to go. Note: Cv factor is not rated. Inline valves with tube x tube connections have an opaque white

body, Type 302 stainless steel spring, and an acetal piston.

90° elbow valves with tube × NPT male connections have a black body, an adjustable screw, and an acetal seat. Mount in any position. Connections: See table.

Connection Style	Connection Size	End-to- End Lg.	Each
Inline	. 1/4" Tube OD x1/4" Tube OD	1 ¹⁵ /16" 3208K14 .	\$12.21
Inline	. 5/16" Tube OD 🗙 5/16" Tube OD	2" 3208K16 .	. 12.23
Inline	. 3/8" Tube OD x3/8" Tube OD	2 ⁵ /8" 3208K18.	. 12.50
90° Elbow	. 1/4" Tube OD x1/8" NPT Male	1½" 3208K22.	14.74
90° Elbow	. 1/4" Tube OD x1/4" NPT Male	19/16" 3208K24.	16.57
90° Elbow	.3/8" Tube OD x1/4" NPT Male	1½" 3208K26 .	16.57

Nylon Plug Orifices



 Maximum Pressure: 100 psi @ 75° F • Temperature Range: 40° to 120° F

Insert these orifices anywhere in your line that you need to vent, bleed, and purge your system to the atmosphere at a controlled rate. Orifices have a nylon body and a polysulfone insert, unless noted. **Connections:** See table. Also Available: Orifice diameters not listed. Please ask for 4926T999 and specify the connection style and orifice dia. desired.

Orifice			Water Flow, gpm			1/8" Ni Male	
Dia.	Color	@ 40 psi	@ 40 psi		Each		Each
0.004"	Purple	0.010	0.0022	4926T32	\$7.26	4926T12	\$8.87
0.005"	Lime Green	0.021	0.0039	4926T33	7.26	4926T13	8.87
0.006"	.Red	0.031	0.0054	4926T34	7.26	4926T14	8.87
0.007"	.Aqua	0.040	0.0076	4926T35	7.26	4926T15	8.87
★ Inser	t is polycark	onate					

Orifice			Water Flow, gpm		2 nd		
Dia.	Color	@ 40 psi	@ 40 psi		Each		Each
0.010"	Yellow	.0.083	.0.0158	4926T36	\$7.26	4926T16	\$8.87
0.012"	Black	.0.113	.0.0215	4926T37	7.26	4926T17	8.87
0.014"	Orange.	.0.136	.0.0272	4926T38*	7.26	4926T18★	8.87
0.020"	Blue	.0.283	.0.0560	4926T39	7.26	4926T19	8.87

Pressure-Compensating Orifices





Female Female

Conserve drinking water and energy with these inline-mounted regulating control valves; they deliver consistent outlet flow over varying pressure conditions. **Brass body** and **nickel-plated brass body** orifices can be used with drinking (potable) water in all states except California and Vermont as of January 1, 2010. The control mechanism is a flexible orifice that varies its effective area inversely to the applied pressure. Maximum inlet pressure is 200 psi. Temp. range is 40° to 180° F.

Brass Body—Seal is Buna-N, except for 1 and 2 gpm valves, which have an EPR (ethylene propylene rubber) seal. Nickel-Plated Brass and Type 316 Stainless Steel Bodies—3/8" orifices have an EPR seal, unless noted. 1/2", 3/4", and 1" orifices have a Buna-N seal, unless noted. Zinc-Plated Steel Body—Seal is Buna-N, except for 1 and 2 gpm orifices, which have an EPR seal. **Connections:** NPT male and NPT female. See table.

flow from those listed.

	ш	Dorder: Please s	specify outlet flo
	Available Outlet Flow, gpm	O'all Lg.	Each
Brass	Body-Male Inlet x Female Out	let	
3/4"	1, 2, 3, 4, 5, 6, 7, 8, 9, 10	11/2"8	3105K11\$39.57
Nicke	I-Plated Brass Body - Female	inlet×Female Outl	let
3/8"	0.13, 0.19, 0.25, 0.35, 0.50, 0.7	5, 1 13/4" 4	1762K41 32.77
	1, 1.5, 2, 2.5, 3, 3.5, 4, 5, 6		
3/4"	1, 1.5, 2, 2.5, 3, 4, 5, 6, 7, 8, 9,	102 ⁹ / ₃₂ " <mark>4</mark>	1762K45 ■ 39.89
1"	1, 2, 3, 4, 5, 6, 8, 10, 12, 15, 20	, 25, 30 23/4" 4	1762K47■ 80.74
	Plated Steel Body—Male Inlet >		
11/4"	1, 2, 3, 5, 6, 8, 10, 15, 30	3"	3107K31 81.91
• 1.5	gpm orifice has an EPR seal.	■ 1 and 2 gpm c	rifices have an E

		Available	O'all	
h	Size	Outlet Flow, gpm	Lg.	Each
		Plated Steel Body—Male Inlet x Mai		
7	11/2"	1, 2, 3, 5, 6, 8, 10, 15, 30	3″ <mark>81</mark>	07K33 \$90.43
	Type	316 Stainless Steel Body — Female	Inlet x Female C	Dutlet
7	3/8"	0.13, 0.19, 0.25, 0.35, 0.50, 0.75, 1	13/4"47	62K51 ▲ 156.38
.9		1, 1.5, 2, 2.5, 3, 3.5, 4, 5, 6		
9	3/4"	1, 1.5, 2, 2.5, 3, 4, 5, 6, 7, 8, 9, 10	29/32" 47	62K55 ■ 246.88
4	1″	1, 2, 3, 4, 5, 6, 8, 10, 12, 15, 20, 25,	, 302 ³ / ₄ " <mark>47</mark>	62K57 ■ 288.10

■ 1 and 2 gpm orifices have an EPR seal. ▲ 0.35 gpm orifice has a Buna-N seal.

Iris-Style Flow-Control Valves



Iris-style valves give you adjustable control and shut-off of free-flowing bulk materials such as packaging, powders, and grain. The handle rotates 180° to vary the size of the valve opening and twist-locks in any

position. Body is aluminum and the control ring is bronze.

Standard valves have a nylon sleeve. Maximum temperature is 230° F. FDA-compliant valves have a urethane-coated nylon sleeve. Maximum temperature is 180° F.

Sleeve Dia.	Housing Dia.xThick.	Standard Each	FDA Compliant Each	Sleeve Dia.	Housing Dia.×Thick.	Standard Each	FDA Compliant Each
4"	6" ×11/4"	8153K11 \$430.89	8153K12\$468.42	10"	13 ¹ / ₂ " × 1 ⁵ / ₈ "	8153K17 \$837.94	8153K18 \$903.33
6"	91/8" × 13/8"	8153K13 493.26	8153K14 533.93	12"	16" ×13/4"	8153K19 1,169.90	8153K21 . 1,230.13
8"	111/8" x 13/8"	8153K15 601.58	8153K16 651.61				