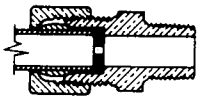


Walden, NY 12586

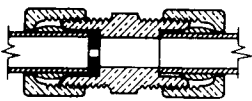
# AUXILLIARY FITTINGS

## BLEEDPORTS

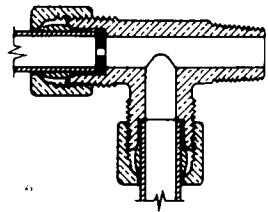
For steam, air and gas service, a 3/32" bleedport orifice is used for main valve sizes up to 8". For 10" and 12" main valve sizes, a 1/8" bleedport orifice is used. If the initial pressure or pressure drop is less than 15 psi, the orifice is reduced to 1/16". For liquids, fuel oil takes 3/32" and all other fluids take 1/16", regardless of pressure conditions. For main valve sizes up to 8" on long pressure drops, the orifice is sometimes increased to 1/8" to eliminate hunting or to make the valve close faster and open slower.



4A Bleedport



1A Union Bleedport



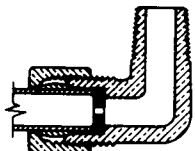
8A Bleedport Tee

## RESTRICTION ORIFICES\*

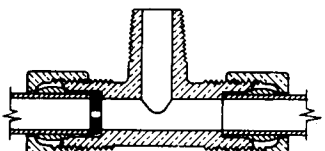
Main Valve Size	Orifice Drill Size	Decimal Equivalent
3/8	60	.0400
1/2	60	.0400
3/4	60	.0400
1	60	.0400
1 1/4	58	.0420
1 1/2	58	.0420
2	56	.0465
2 1/2	56	.0465
3	53	.0595
3 1/2	53	.0595
4	51	.0670
5	47	.0785
6	45	.0820
8	42	.0935
10	17	.1730
12	7	.2010

## RESTRICTIONS

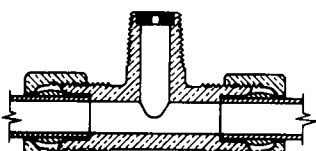
Spare restriction fittings can be supplied blank and drilled for a particular main valve according to the table. If the initial pressure or pressure drop is less than 15 psi an open fitting is used. All back pressure valves employ an open fitting. For liquid services, except back pressure, the restriction orifice is 1/16" for all sizes of main valves.



5A Restriction Elbow



7A Safety Pilot Restriction Tee

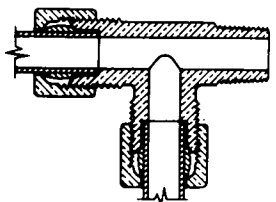


7C Anti-Freeze Restriction Tee

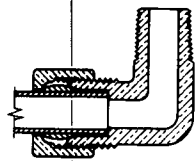
\*Steam, Air, Gas

If the initial pressure or pressure drop is less than 15 psi, a No. 5A elbow with orifice removed is used.

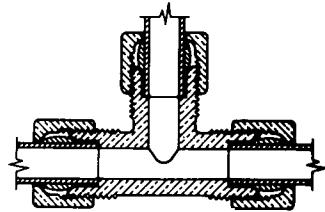
## OPEN FITTINGS



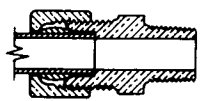
8B Tee



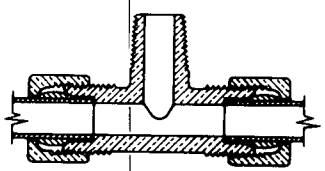
5B Elbow



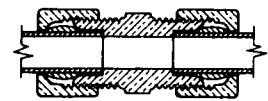
9B Tubing Tee



4B Coupling



7B Tee



1B Union

## MAINTENANCE INFORMATION FOR SPENCE REGULATORS

### PRESSURE PILOT SPRINGS

Part No.	Delivery Pressure	Spring Color	Wire Diameter	Used on Pilot Type
5-05007-0	1 - 10	Aluminum	3/16"	D5, Q5
5-05007-0	3 - 20	Aluminum	3/16"	D, D3-1, N, N33, Q, N20
5-05003-0	5 - 25	Orange	1/4"	D5, Q5
5-05016-0	5 - 25	Uncolored	7/32"	D120
5-05003-0	5 - 50	Orange	1/4"	D, D3-1, N, N33, Q, N14
5-05028-0	10 - 75	Uncolored	5/16"	D120
5-05005-0	10 - 100	Green	5/16"	D, D3-1, N, N33, Q, N20
5-05012-0	20 - 150	Black	11/32"	D, D3-1, N, N33, Q, N20
5-04990-0	100 - 300	Uncolored	7/16"	D2, D4-1, N2, Q2
5-05030-0	40 - 150	Uncolored	3/8"	D120

### PRESSURE PILOT DIAPHRAGMS\*

Part No.	MTL.	Size	Used on Pilot Type
4-01621-0	Brz.	3 1/2"	W, P133, A88, Q6, D4-1, D2
4-01623-0	St. Stl.	3 1/2"	D, D3-1, N, N3-1, Q, A43, A53
4-07890-0	Brz.	3 1/2"	A35, A, A81, SP/P
4-01626-0	St. Stl.	3 1/2"	P13, N4, F13, N24
4-01627-0	Brz.	4 1/2"	A43, A84, A86, A93
4-01629-1	St. Stl.	4 1/2"	P14, P110, Q43, F14
4-01630-0	Brz.	5 3/4"	A53, A5, P95, A85
4-01632-0	St. Stl.	5 3/4"	A92, P15, A54, F15
4-10721-0	Brz.	5 3/4"	D5, W5, Q5, A35
4-03927-0	St. Stl.	5 3/4"	Q35, V5, A81, A82
4-01633-0	Brz.	7 1/4"	A73, A70, A75, A87
4-01635-0	St. Stl.	7 1/4"	Q73
4-09685-0	Brz.	4 1/2"	D120, A92, D234
4-01659-0	St. Stl.	4 1/2"	A54, F46

\*No. of Diaphragms per set per pilot varies with Type of Pilot and delivery pressure. See individual Parts List for quantity required.

### TYPE E MAIN VALVE DIAPHRAGMS No. Required

Initial Pressure	No. per Set
10 - 250	2
250 - 400	3
400 - 600	4

Valve Size	Part No.		Dia.
	St. Steel	Brz.	
3/8 & 1/2	4-01629-1	4-01627-0	4 1/2
3/4	4-01662-0	4-01660-0	5 1/8
1	4-01632-0	4-01630-0	5 3/4
1 1/4	4-01664-0	4-09678-0	6 1/2
1 1/2	4-01635-0	4-01633-0	7 1/4
2	4-01638-0	4-09679-0	8 1/8
2 1/2	4-01641-0	4-09680-0	9
3	5-02038-0	4-09681-0	10
3 1/2	5-02331-0	4-01645-0	11
4	5-01647-0	4-09682-0	13
5	5-01649-0	4-09683-0	15
6	5-01651-0	5-09684-0	17 1/2
8	5-01653-0	—	20
10	4-02096-0	—	25
12	5-01656-0	—	30

PARTS RECOMMENDED for MAINTENANCE STOCK.  
See individual Parts List for Repair Kits or recommended Spare Parts.