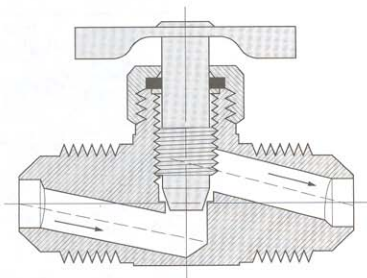


Refer to safety information regarding tubing selection on page 1.



- **Typical Application**

Instrumentation, hydraulic and pneumatic systems.

- **Pressure**

150 psi maximum. (Does not include plastic tubing.)

- **Temperature Range**

-65°F to +250°F (-53°C to +121°C) with metal tubing. For valves using compatible tubing, refer to the tubing temperature range.

- **Material**

Brass bodies, steel handles except where noted. POLYLINE® valves have brass bodies and brass handles.

- **Used With**

Copper, aluminum, steel and plastic tubing where applicable. When using POLYLINE® valves, use aluminum and copper tubing with brass sleeve only. Plastic tubing may be used with either brass or plastic sleeve.

- **Advantages**

Metal-to-metal seat, with fine thread screwdown, enables valves to seat positively, adjust easily and hold to any amount of flow up to capacity of the valve.

- **Conformance**

Designed for automotive and industrial use. Not intended for natural gas, LPG, nuclear or aircraft applications.

- **How to Order**

Order valve body, nuts and sleeves by catalog number. Order valve with SELFALIGN® nuts and sleeves by adding suffix "S". Example: A6763 becomes A6763S. Order valves less nuts and sleeves by adding prefix "B". Example: A6763 becomes B6763.

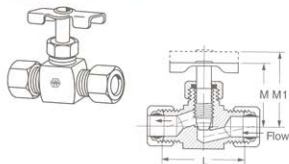
- **Assembly Instructions**

1. Install with the pressure against the seat. Inspection of a straight valve discloses one opening to be higher than the other. Pressure should always be directed against the seat in angle valves, not the stem threads.

# Needle Valves

Brass  
Fittings

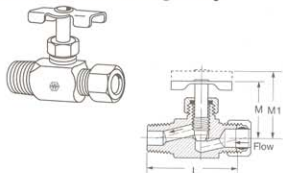
## Compression Double



"S" suffix designates Selfalign® with nuts and sleeves.

Tube O.D.	Catalog Number	L	M	M1
3/16	A6763	1.06	.88	1.03
3/16	A6763S	1.06	.88	1.03
1/4	A6765	1.13	.88	1.03
1/4	A6765S	1.13	.88	1.03
5/16	A6770	1.13	.88	1.03
3/8	A6775	1.50	1.13	1.31
3/8	A6775S	1.50	1.13	1.31

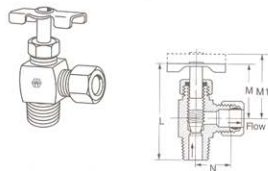
## Compression Straightway



"S" suffix designates Selfalign® with nuts and sleeves.

Tube O.D.	Male Pipe Thread	Catalog Number	L	M	M1
3/16	1/8	A6690	1.16	.88	1.03
3/16	1/8	A6690S	1.16	.88	1.03
1/4	1/8	A690	1.19	.88	1.03
1/4	1/8	A690S	1.19	.88	1.03
5/16	1/8	A660	1.18	.90	1.05
5/16	1/4	A6755	1.28	.91	1.09
5/16	1/4	A6755S	1.28	.91	1.09
3/8	1/4	A6760	1.82	1.31	1.46
3/8	1/4	A6760S	1.82	1.31	1.46

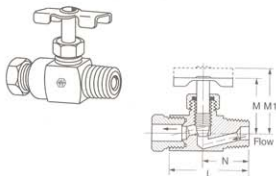
## Compression Angle



"S" suffix designates Selfalign® with nuts and sleeves.

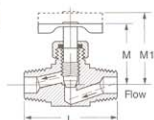
Tube O.D.	Male Pipe Thread	Catalog Number	L	M	M1	N
3/16	1/8	A6845	1.50	.82	1.07	.50
3/16	1/8	A6845S	1.50	.82	1.07	.50
1/4	1/8	A555	1.53	.83	1.05	.53
1/4	1/8	A555S	1.53	.83	1.05	.53
5/16	1/8	A655	1.56	.84	1.09	.52
5/16	1/8	A655S	1.56	.84	1.09	.52
5/16	1/4	A6855	1.73	.92	1.28	.69
5/16	1/4	A6855S	1.73	.92	1.28	.69
3/8	1/4	A6860	1.64	.83	1.28	.78
3/8	1/4	A6860S	1.64	.83	1.28	.78

## Inverted Straightway

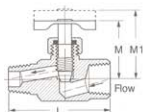


For replacement nut use 105x4. See page 38.  
"B" prefix designates less inverted nut.

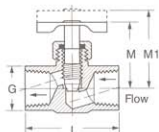
Tube O.D.	Male Pipe Thread	Catalog Number	L	M	M1	N
1/4	1/8	A735	1.38	.84	1.01	.69
1/4	1/8	B735	1.38	.84	1.01	.69

**Male Pipe Double**


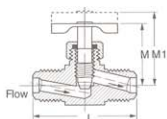
Male Pipe Thread	Catalog Number	L	M	M1
1/8	6810	1.38	.66	.80
1/4	6815	1.62	1.08	1.23

**Male to Female Pipe**


Fem. Pipe Thread	Male Pipe Thread	Catalog Number	L	M	M1
1/8	1/8	6820	1.18	.88	1.03
1/4	1/4	6825	1.88	1.09	1.24

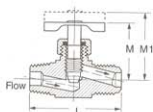
**Female Pipe**


Fem. Pipe Thread	Catalog Number	L	M	M1	G
1/8	6800	1.12	.88	1.03	.50
1/4	6805	1.62	1.11	1.26	.69

**SAE 45° Flare Double**


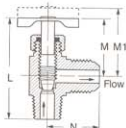
Tube O.D.	Catalog Number	L	M	M1
1/4	6715	1.38	.87	1.03

### SAE 45° Flare Straightway



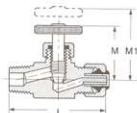
Tube O.D.	Male Pipe Thread	Catalog Number	L	M	M1
1/4	1/8	530	1.31	.88	1.03
1/4	1/4	6700	1.38	.88	1.09
5/16	1/8	630	1.38	.95	1.13
5/16	1/4	695	1.44	.87	1.02
3/8	1/4	700	1.68	1.00	1.15

### SAE 45° Flare Angle



Tube O.D.	Male Pipe Thread	Catalog Number	L	M	M1	N
1/4	1/8	320	1.54	.86	1.07	.68
5/16	1/8	325	1.59	.94	1.22	.88
5/16	1/4	6703	1.94	1.00	1.31	.90
3/8	1/4	330	1.84	.90	1.21	.97

### Polyline® Straightway

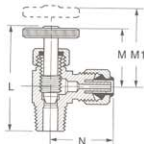


Tube O.D.	Male Pipe Thread	Catalog Number	L	M	M1
1/4	1/8	A690P	1.19	.86	1.01
3/8	1/4	A6760P	1.50	1.18	1.33

For replacement Polyline® nuts and sleeves, see page 61. Supplied with plastic sleeve.

Temperature Range: -40°F to +150°F with plastic sleeve.

### Polyline® Angle



Tube O.D.	Male Pipe Thread	Catalog Number	L	M	M1	N
1/4	1/8	A555P	1.50	.82	1.04	.48
1/4	1/4	A556P	1.70	.84	1.06	.56
3/8	1/4	A6860P	1.85	.99	1.44	.64

For replacement Polyline® nuts and sleeves, see page 61. Supplied with plastic sleeve.

Temperature Range: -40°F to +150°F with plastic sleeve.