

Pneumatic Components

Push-In Fittings

Filter-Regulator-Lubricator

Solenoid & Air Pilot Valves

Process Valves

Manual Air Valves

Polyurethane Tubing









"Technology in Motion"

Composite Push-In Fittings

| Composite Fittings | |  |  |  |  |  |  |
|--------------------|-----------|---|---|---|--|---|---|
| Model | | Male Connector with Internal Hex | Compact Male Connector with Internal Hex | Male Elbow | Branch Tee | Run Tee | Y Connector |
| Tube OD | Pipe Size | MC | CC | ME | BT | RT | YC |
| 1/8 | 10-32UNF | MC 1/8 10-32 | CC 1/8 10-32 | ME 1/8 10-32 | BT 1/8 10-32 | RT 1/8 10-32 | YC 1/8 10-32 |
| 1/8 | NPT1/8 | MC 1/8 N1/8 | CC 1/8 N1/8 | ME 1/8 N1/8 | BT 1/8 N1/8 | RT 1/8 N1/8 | YC 1/8 N1/8 |
| 1/8 | NPT1/4 | MC 1/8 N1/4 | CC 1/8 N1/4 | ME 1/8 N1/4 | BT 1/8 N1/4 | | |
| 5/32 | 10-32UNF | MC 5/32 10-32 | CC 5/32 10-32 | ME 5/32 10-32 | BT 5/32 10-32 | RT 5/32 10-32 | YC 5/32 10-32 |
| 5/32 | NPT1/8 | MC 5/32 N1/8 | CC 5/32 N1/8 | ME 5/32 N1/8 | BT 5/32 N1/8 | RT 5/32 N1/8 | YC 5/32 N1/8 |
| 5/32 | NPT1/4 | MC 5/32 N1/4 | CC 5/32 N1/4 | ME 5/32 N1/4 | BT 5/32 N1/4 | RT 5/32 N1/4 | YC 5/32 N1/4 |
| 3/16 | 10-32UNF | MC 3/16 10-32 | | ME 3/16 10-32 | BT 3/16 10-32 | RT 3/16 10-32 | YC 3/16 10-32 |
| 3/16 | NPT1/8 | MC 3/16 N1/8 | | ME 3/16 N1/8 | BT 3/16 N1/8 | RT 3/16 N1/8 | YC 3/16 N1/8 |
| 3/16 | NPT1/4 | MC 3/16 N1/4 | | ME 3/16 N1/4 | BT 3/16 N1/4 | RT 3/16 N1/4 | YC 3/16 N1/4 |
| 3/16 | NPT3/8 | MC 3/16 N3/8 | | ME 3/16 N3/8 | BT 3/16 N3/8 | RT 3/16 N3/8 | YC 3/16 N3/8 |
| 1/4 | 10-32UNF | MC 1/4 10-32 | CC 1/4 10-32 | ME 1/4 10-32 | BT 1/4 10-32 | RT 1/4 10-32 | YC 1/4 10-32 |
| 1/4 | NPT1/8 | MC 1/4 N1/8 | CC 1/4 N1/8 | ME 1/4 N1/8 | BT 1/4 N1/8 | RT 1/4 N1/8 | YC 1/4 N1/8 |
| 1/4 | NPT1/4 | MC 1/4 N1/4 | CC 1/4 N1/4 | ME 1/4 N1/4 | BT 1/4 N1/4 | RT 1/4 N1/4 | YC 1/4 N1/4 |
| 1/4 | NPT3/8 | MC 1/4 N3/8 | | ME 1/4 N3/8 | BT 1/4 N3/8 | RT 1/4 N3/8 | YC 1/4 N3/8 |
| 5/16 | NPT1/8 | MC 5/16 N1/8 | | ME 5/16 N1/8 | BT 5/16 N1/8 | RT 5/16 N1/8 | YC 5/16 N1/8 |
| 5/16 | NPT1/4 | MC 5/16 N1/4 | | ME 5/16 N1/4 | BT 5/16 N1/4 | RT 5/16 N1/4 | YC 5/16 N1/4 |
| 5/16 | NPT3/8 | MC 5/16 N3/8 | | ME 5/16 N3/8 | BT 5/16 N3/8 | RT 5/16 N3/8 | YC 5/16 N3/8 |
| 3/8 | NPT1/8 | MC 3/8 N1/8 | CC 3/8 N1/8 | ME 3/8 N1/8 | BT 3/8 N1/8 | RT 3/8 N1/8 | YC 3/8 N1/8 |
| 3/8 | NPT1/4 | MC 3/8 N1/4 | CC 3/8 N1/4 | ME 3/8 N1/4 | BT 3/8 N1/4 | RT 3/8 N1/4 | YC 3/8 N1/4 |
| 3/8 | NPT3/8 | MC 3/8 N3/8 | CC 3/8 N3/8 | ME 3/8 N3/8 | BT 3/8 N3/8 | RT 3/8 N3/8 | YC 3/8 N3/8 |
| 3/8 | NPT1/2 | MC 3/8 N1/2 | | ME 3/8 N1/2 | BT 3/8 N1/2 | RT 3/8 N1/2 | YC 3/8 N1/2 |
| 1/2 | NPT1/4 | MC 1/2 N1/4 | CC 1/2 N1/4 | ME 1/2 N1/4 | BT 1/2 N1/4 | RT 1/2 N1/4 | YC 1/2 N1/4 |
| 1/2 | NPT3/8 | MC 1/2 N3/8 | CC 1/2 N3/8 | ME 1/2 N3/8 | BT 1/2 N3/8 | RT 1/2 N3/8 | YC 1/2 N3/8 |
| 1/2 | NPT1/2 | MC 1/2 N1/2 | | ME 1/2 N1/2 | BT 1/2 N1/2 | RT 1/2 N1/2 | YC 1/2 N1/2 |

| | | | | | | | |
|-------|--------|------------|--|------------|------------|------------|------------|
| 4 mm | M5X0.8 | MC 4 M5 | | ME 4 M5 | BT 4 M5 | RT 4 M5 | YC 4 M5 |
| 4 mm | M6X1 | MC 4 M6 | | ME 4 M6 | BT 4 M6 | RT 4 M6 | YC 4 M6 |
| 4 mm | R1/8 | MC 4 R1/8 | | ME 4 R1/8 | BT 4 R1/8 | RT 4 R1/8 | YC 4 R1/8 |
| 4 mm | R1/4 | MC 4 R1/4 | | ME 4 R1/4 | BT 4 R1/4 | RT 4 R1/4 | YC 4 R1/4 |
| 6 mm | M5X0.8 | MC 6 M5 | | ME 6 M5 | BT 6 M5 | RT 6 M5 | YC 6 M5 |
| 6 mm | M6X1 | MC 6 M6 | | ME 6 M6 | BT 6 M6 | RT 6 M6 | YC 6 M6 |
| 6 mm | R1/8 | MC 6 R1/8 | | ME 6 R1/8 | BT 6 R1/8 | RT 6 R1/8 | YC 6 R1/8 |
| 6 mm | R1/4 | MC 6 R1/4 | | ME 6 R1/4 | BT 6 R1/4 | RT 6 R1/4 | YC 6 R1/4 |
| 6 mm | R3/8 | MC 6 R3/8 | | ME 6 R3/8 | BT 6 R3/8 | RT 6 R3/8 | YC 6 R3/8 |
| 6 mm | R1/2 | MC 6 R1/2 | | ME 6 R1/2 | BT 6 R1/2 | RT 6 R1/2 | YC 6 R1/2 |
| 8 mm | R1/8 | MC 8 R1/8 | | ME 8 R1/8 | BT 8 R1/8 | RT 8 R1/8 | YC 8 R1/8 |
| 8 mm | R1/4 | MC 8 R1/4 | | ME 8 R1/4 | BT 8 R1/4 | RT 8 R1/4 | YC 8 R1/4 |
| 8 mm | R3/8 | MC 8 R3/8 | | ME 8 R3/8 | BT 8 R3/8 | RT 8 R3/8 | YC 8 R3/8 |
| 8 mm | R1/2 | MC 8 R1/2 | | ME 8 R1/2 | BT 8 R1/2 | RT 8 R1/2 | YC 8 R1/2 |
| 10 mm | R1/8 | MC 10 R1/8 | | ME 10 R1/8 | BT 10 R1/8 | RT 10 R1/8 | YC 10 R1/8 |
| 10 mm | R1/4 | MC 10 R1/4 | | ME 10 R1/4 | BT 10 R1/4 | RT 10 R1/4 | YC 10 R1/4 |
| 10 mm | R3/8 | MC 10 R3/8 | | ME 10 R3/8 | BT 10 R3/8 | RT 10 R3/8 | YC 10 R3/8 |
| 10 mm | R1/2 | MC 10 R1/2 | | ME 10 R1/2 | BT 10 R1/2 | RT 10 R1/2 | YC 10 R1/2 |
| 12 mm | R1/4 | MC 12 R1/4 | | ME 12 R1/4 | BT 12 R1/4 | RT 12 R1/4 | YC 12 R1/4 |
| 12 mm | R3/8 | MC 12 R3/8 | | ME 12 R3/8 | BT 12 R3/8 | RT 12 R3/8 | YC 12 R3/8 |
| 12 mm | R1/2 | MC 12 R1/2 | | ME 12 R1/2 | BT 12 R1/2 | RT 12 R1/2 | YC 12 R1/2 |

Composite Push-In Fittings





| Composite Fittings | |  |  |  |  |  |  |
|--------------------|-----------|---|---|---|--|---|---|
| Model | | Universal Elbow | Extended Elbow | Female Connector | Female Elbow | Bulkhead Connector | Control Valve CV=meter-out; CI= meter-in |
| Tube OD | Pipe Size | UE | EE | FC | FE | BC | CV or CI |
| 1/8 | 10-32UNF | UE 1/8 10-32 | | FC 1/8 10-32 | FE 1/8 10-32 | | CV 1/8 10-32 |
| 1/8 | NPT1/8 | UE 1/8 N1/8 | | FC 1/8 N1/8 | FE 1/8 N1/8 | BC 1/8 N1/8 | CV 1/8 N1/8 |
| 5/32 | 10-32UNF | UE 5/32 10-32 | EE 5/32 10-32 | FC 5/32 10-32 | FE 5/32 10-32 | | CV 5/32 10-32 |
| 5/32 | NPT1/8 | UE 5/32 N1/8 | EE 5/32 N1/8 | FC 5/32 N1/8 | FE 5/32 N1/8 | BC 5/32 N1/8 | CV 5/32 N1/8 |
| 5/32 | NPT1/4 | | | FC 5/32 N1/4 | FE 5/32 N1/4 | BC 5/32 N1/4 | CV 5/32 N1/4 |
| 3/16 | 10-32UNF | UE 3/16 10-32 | | | FE 3/16 10-32 | | |
| 3/16 | NPT1/8 | UE 3/16 N1/8 | EE 3/16 N1/8 | | FE 3/16 N1/8 | BC 3/16 N1/8 | CV 3/16 N1/8 |
| 3/16 | NPT1/4 | UE 3/16 N1/4 | EE 3/16 N1/4 | | FE 3/16 N1/4 | BC 3/16 N1/4 | |
| 3/16 | NPT3/8 | | EE 3/16 N3/8 | | | | |
| 1/4 | 10-32UNF | UE 1/4 10-32 | | | FE 1/4 10-32 | | CV 1/4 10-32 |
| 1/4 | NPT1/8 | UE 1/4 N1/8 | EE 1/4 N1/8 | FC 1/4 N1/8 | FE 1/4 N1/8 | BC 1/4 N1/8 | CV 1/4 N1/8 |
| 1/4 | NPT1/4 | UE 1/4 N1/4 | EE 1/4 N1/4 | FC 1/4 N1/4 | FE 1/4 N1/4 | BC 1/4 N1/4 | CV 1/4 N1/4 |
| 1/4 | NPT3/8 | | EE 1/4 N3/8 | | FE 1/4 N3/8 | | CV 1/4 N3/8 |
| 5/16 | NPT1/8 | UE 5/16 N1/8 | EE 5/16 N1/8 | FC 5/16 N1/8 | FE 5/16 N1/8 | BC 5/16 N1/8 | CV 5/16 N1/8 |
| 5/16 | NPT1/4 | UE 5/16 N1/4 | EE 5/16 N1/4 | FC 5/16 N1/4 | FE 5/16 N1/4 | BC 5/16 N1/4 | CV 5/16 N1/4 |
| 5/16 | NPT3/8 | UE 5/16 N3/8 | EE 5/16 N3/8 | FC 5/16 N3/8 | FE 5/16 N3/8 | | CV 5/16 N3/8 |
| 3/8 | NPT1/8 | UE 3/8 N1/8 | | | | | |
| 3/8 | NPT1/4 | UE 3/8 N1/4 | EE 3/8 N1/4 | FC 3/8 N1/4 | FE 3/8 N1/4 | BC 3/8 N1/4 | CV 3/8 N1/4 |
| 3/8 | NPT3/8 | UE 3/8 N3/8 | EE 3/8 N3/8 | FC 3/8 N3/8 | FE 3/8 N3/8 | BC 3/8 N3/8 | CV 3/8 N3/8 |
| 3/8 | NPT1/2 | | EE 3/8 N1/2 | FC 3/8 N1/2 | FE 3/8 N1/2 | | CV 3/8 N1/2 |
| 1/2 | NPT1/4 | | EE 1/2 N1/4 | FC 1/2 N1/4 | | | |
| 1/2 | NPT3/8 | UE 1/2 N3/8 | EE 1/2 N3/8 | FC 1/2 N3/8 | | BC 1/2 N3/8 | CV 1/2 N3/8 |
| 1/2 | NPT1/2 | UE 1/2 N1/2 | EE 1/2 N1/2 | | | BC 1/2 N1/2 | CV 1/2 N1/2 |

| | | | | | | | |
|-------|--------|------------|------------|------------|------------|------------|------------|
| 4 mm | M5X0.8 | UE 4 M5 | EE 4 M5 | | FE 4 M5 | | CV 4 M5 |
| 4 mm | M6X1 | UE 4 M6 | EE 4 M6 | | FE 4 M6 | | CV 4 M6 |
| 4 mm | R1/8 | UE 4 R1/8 | EE 4 R1/8 | FC 4 R1/8 | FE 4 R1/8 | BC 4 R1/8 | CV 4 R1/8 |
| 4 mm | R1/4 | UE 4 R1/4 | EE 4 R1/4 | FC 4 R1/4 | FE 4 R1/4 | BC 4 R1/4 | CV 4 R1/4 |
| 6 mm | M5X0.8 | UE 6 M5 | EE 6 M5 | | FE 6 M5 | | CV 6 M5 |
| 6 mm | M6X1 | UE 6 M6 | EE 6 M6 | | FE 6 M6 | | CV 6 M6 |
| 6 mm | R1/8 | UE 6 R1/8 | EE 6 R1/8 | FC 6 R1/8 | FE 6 R1/8 | BC 6 R1/8 | CV 6 R1/8 |
| 6 mm | R1/4 | UE 6 R1/4 | EE 6 R1/4 | FC 6 R1/4 | FE 6 R1/4 | BC 6 R1/4 | CV 6 R1/4 |
| 6 mm | R3/8 | UE 6 R3/8 | EE 6 R3/8 | FC 6 R3/8 | FE 6 R3/8 | BC 6 R3/8 | CV 6 R3/8 |
| 6 mm | R1/2 | | EE 6 R1/2 | | | | |
| 8 mm | R1/8 | UE 8 R1/8 | EE 8 R1/8 | FC 8 R1/8 | FE 8 R1/8 | BC 8 R1/8 | CV 8 R1/8 |
| 8 mm | R1/4 | UE 8 R1/4 | EE 8 R1/4 | FC 8 R1/4 | FE 8 R1/4 | BC 8 R1/4 | CV 8 R1/4 |
| 8 mm | R3/8 | UE 8 R3/8 | EE 8 R3/8 | FC 8 R3/8 | FE 8 R3/8 | BC 8 R3/8 | CV 8 R3/8 |
| 8 mm | R1/2 | UE 8 R1/2 | EE 8 R1/2 | FC 8 R1/2 | | BC 8 R1/2 | CV 8 R1/2 |
| 10 mm | R1/8 | | EE 10 R1/8 | FC 10 R1/8 | FE 10 R1/8 | BC 10 R1/8 | |
| 10 mm | R1/4 | UE 10 R1/4 | EE 10 R1/4 | FC 10 R1/4 | FE 10 R1/4 | BC 10 R1/4 | CV 10 R1/4 |
| 10 mm | R3/8 | UE 10 R3/8 | EE 10 R3/8 | FC 10 R3/8 | FE 10 R3/8 | BC 10 R3/8 | CV 10 R3/8 |
| 10 mm | R1/2 | UE 10 R1/2 | EE 10 R1/2 | FC 10 R1/2 | FE 10 R1/2 | BC 10 R1/2 | CV 10 R1/2 |
| 12 mm | R1/4 | UE 12 R1/4 | EE 12 R1/4 | FC 12 R1/4 | FE 12 R1/4 | BC 12 R1/4 | CV 12 R1/4 |
| 12 mm | R3/8 | UE 12 R3/8 | EE 12 R3/8 | FC 12 R3/8 | FE 12 R3/8 | BC 12 R3/8 | CV 12 R3/8 |
| 12 mm | R1/2 | UE 12 R1/2 | EE 12 R1/2 | FC 12 R1/2 | FE 12 R1/2 | BC 12 R1/2 | CV 12 R1/2 |

Composite Push-In Fittings

| Composite Fittings |  |  |  |  |  |  |  | |
|--------------------|---|---|---|---|---|---|---|---------------|
| Model | Flow Valve | Bulkhead Union | Cross Union | Elbow Union | Straight Union | Tee Union | Y Union | |
| Tube OD | FV | BU | CU | EU | SU | TU | YU | |
| 1/8 | FV 1/8 | BU 1/8 | CU 1/8 | EU 1/8 | SU 1/8 | TU 1/8 | YU 1/8 | |
| 5/32 | FV 5/32 | BU 5/32 | CU 5/32 | EU 5/32 | SU 5/32 | TU 5/32 | YU 5/32 | |
| 3/16 | FV 3/16 | BU 3/16 | CU 3/16 | EU 3/16 | SU 3/16 | TU 3/16 | YU 3/16 | |
| 1/4 | FV 1/4 | BU 1/4 | CU 1/4 | EU 1/4 | SU 1/4 | TU 1/4 | YU 1/4 | |
| 5/16 | FV 5/16 | BU 5/16 | CU 5/16 | EU 5/16 | SU 5/16 | TU 5/16 | YU 5/16 | |
| 3/8 | FV 3/8 | BU 3/8 | CU 3/8 | EU 3/8 | SU 3/8 | TU 3/8 | YU 3/8 | |
| 1/2 | FV 1/2 | BU 1/2 | CU 1/2 | EU 1/2 | SU 1/2 | TU 1/2 | YU 1/2 | |
| 4 mm | FV 04 | BU 4 | CU 4 | EU 4 | SU 4 | TU 4 | YU 4 | |
| 6 mm | FV 06 | BU 6 | CU 6 | EU 6 | SU 6 | TU 6 | YU 6 | |
| 8 mm | FV 08 | BU 8 | CU 8 | EU 8 | SU 8 | TU 8 | YU 8 | |
| 10 mm | FV 10 | BU 10 | CU 10 | EU 10 | SU 10 | TU 10 | YU 10 | |
| Composite Fittings | FV 12 | BU 12 | CU 12 | EU 12 | SU 12 | TU 12 | YU 12 | |
| Model | Elbow Reducer (Tube-Stem) | Plug In Elbow | Male Manifold | Manifold Union | Reduced Branch | Reduced Union | Tee Reducer | |
| Tube OD | ER | PE | MM | MU | RB | RU | TR | |
| 1/8 | ER 1/8-5/32 | PE 1/8 | MM 1/4-5/32-N1/8 | MU 5/32X1/8 | RB 5/32-1/8 | RU 5/32-1/8 | TR 5/32-1/8 | |
| 5/32 | ER 5/32-1/4 | PE 5/32 | MM 5/16-5/32-N1/4 | MU 1/4X5/32 | RB 3/16-5/32 | RU 3/16-5/32 | TR 3/16-1/8 | |
| 3/16 | | PE 3/16 | MM 5/16-1/4-N1/4 | MU 5/16X5/32 | RB 1/4-5/32 | RU 1/4-5/32 | TR 1/4-5/32 | |
| 1/4 | ER 1/4-5/16 | PE 1/4 | | MU 5/16X1/4 | RB 1/4-3/16 | RU 1/4-3/16 | TR 1/4-3/16 | |
| 5/16 | ER 5/16-3/8 | PE 5/16 | | MU 3/8X1/4 | RB 5/16-1/4 | RU 5/16-1/4 | TR 5/16-1/4 | |
| 3/8 | ER 3/8-1/2 | PE 3/8 | | | RB 3/8-1/4 | RU 3/8-1/4 | TR 3/8-1/4 | |
| 1/2 | | PE 1/2 | | | RB 3/8-5/16 | RU 3/8-5/16 | TR 3/8-5/16 | |
| 4 mm | | | MM 06-04-R1/8 | MU 6-4 | RB 1/2-3/8 | RU 1/2-3/8 | TR 1/2-3/8 | |
| 6 mm | ER 4-6 | PE 4 | MM 08-04-R1/4 | MU 8-4 | RB 6-4 | RU 6-4 | TR 6-4 | |
| 8 mm | ER 6-8 | PE 6 | MM 08-06-R3/8 | MU 8-6 | RB 8-6 | RU 8-6 | TR 8-6 | |
| 10 mm | ER 8-10 | PE 8 | MM 10-08-R3/8 | MU 10-6 | RB 10-8 | RU 10-8 | TR 10-8 | |
| 12 mm | ER 10-12 | PE 10 | | MU 10-8 | RB 12-10 | RU 12-10 | TR 12-10 | |
| Composite Fittings |  |  |  |  |  |  | | |
| Model | Plug | Stem Coupler | Stem Reducer | Tube Reducer (Tube-Stem) | Model | Stack Elbow | Male Angle | |
| Tube OD | PG | SC | SR | TR | Tube OD | Pipe Size | SE | MA |
| 1/8 | PG 1/8 | SC 1/8 | | | 5/32 | 10-32 | SE 5/32 10-32 | MA 5/32 10-32 |
| 5/32 | PG 5/32 | SC 5/32 | SR 1/8-5/32 | TR 1/8-5/32 | 5/32 | NPT1/8 | SE 5/32 N1/8 | MA 5/32 N1/8 |
| 3/16 | | | | | 1/4 | 10-32 | SE 1/4 10-32 | MA 1/4 10-32 |
| 1/4 | PG 1/4 | SC 1/4 | SR 5/32-1/4 | TR 5/32-1/4 | 1/4 | NPT1/8 | SE 1/4 N1/8 | MA 1/4 N1/8 |
| 5/16 | PG 5/16 | SC 5/16 | SR 1/4-5/16 | TR 1/4-5/16 | 1/4 | NPT1/4 | SE 1/4 N1/4 | MA 1/4 N1/4 |
| 3/8 | PG 3/8 | SC 3/8 | SR 1/4-3/8 | TR 1/4-3/8 | 5/16 | NPT1/4 | SE 5/16 N1/4 | MA 5/16 N1/4 |
| 1/2 | PG 1/2 | SC 1/2 | SR 3/8-1/2 | TR 3/8-1/2 | 5/16 | NPT3/8 | SE 5/16 N3/8 | MA 5/16 N3/8 |
| 4 mm | PG 4 | SC 4 | | | 3/8 | NPT1/4 | SE 3/8 N1/4 | MA 3/8 N1/4 |
| 6 mm | PG 6 | SC 6 | SR 4-6 | TR 4-6 | 3/8 | NPT3/8 | SE 3/8 N3/8 | MA 3/8 N3/8 |
| 8 mm | PG 8 | SC 8 | SR 6-8 | TR 6-8 | | | | |
| 10 mm | PG10 | SC10 | SR 8-10 | TR 8-10 | 1/2 | NPT3/8 | SE 1/2 N3/8 | MA 1/2 N3/8 |
| 12 mm | PG 12 | SC 12 | SR 10-12 | TR 10-12 | 1/2 | NPT1/2 | SE 1/2 N1/2 | MA 1/2 N1/2 |

316 Stainless Steel Push-In Fittings

| Stainless Steel Fittings |  | |  | |  | |  | |
|--------------------------|---|--|---|--|--|--|---|--|
| Name | Bulkhead Union | | Elbow Union | | Straight Union | | Tee Union | |
| Tube OD | Part No. | | Part No. | | Part No. | | Part No. | |
| 1/8" | BUS 1/8 | | EUS 1/8 | | SUS 1/8 | | TUS 1/8 | |
| 5/32" | BUS 5/32 | | EUS 5/32 | | SUS 5/32 | | TUS 5/32 | |
| 1/4" | BUS 1/4 | | EUS 1/4 | | SUS 1/4 | | TUS 1/4 | |
| 5/16" | BUS 5/16 | | EUS 5/16 | | SUS 5/16 | | TUS 5/16 | |
| 3/8" | BUS 3/8 | | EUS 3/8 | | SUS 3/8 | | TUS 3/8 | |
| 1/2" | BUS 1/2 | | EUS 1/2 | | SUS 1/2 | | TUS 1/2 | |


| | | | | | | | | |
|-------|--------|--|--------|--|--------|--|--------|--|
| 4 mm | BUS 4 | | EUS 4 | | SUS 4 | | TUS 4 | |
| 6 mm | BUS 6 | | EUS 6 | | SUS 6 | | TUS 6 | |
| 8 mm | BUS 8 | | EUS 8 | | SUS 8 | | TUS 8 | |
| 10 mm | BUS 10 | | EUS 10 | | SUS 10 | | TUS 10 | |
| 12 mm | BUS 12 | | EUS 12 | | SUS 12 | | TUS 12 | |





| Stainless Steel Fittings |  | |  | |  | |  | |  | |
|--------------------------|---|--|---|--|---|--|---|--|---|--|
| Name | Branch Tee | | Female Connector | | Male Connector | | Male Elbow, Swivel | | Y Connector, Swivel | |
| Tube OD X Thread | Part No. | | Part No. | | Part No. | | Part No. | | Part No. | |
| 1/8" X 10-32 | BTS 1/8 10-32 | | FCS 1/8 10-32 | | MCS 1/8 10-32 | | MES 1/8 10-32 | | YCS 1/8 10-32 | |
| 1/8" X 1/8" NPT | BTS 1/8 N1/8 | | FCS 1/8 N1/8 | | MCS 1/8 N1/8 | | MES 1/8 N1/8 | | YCS 1/8 N1/8 | |
| 5/32" X 10-32 | BTS 5/32 10-32 | | FCS 5/32 10-32 | | MCS 5/32 10-32 | | MES 5/32 10-32 | | YCS 5/32 10-32 | |
| 5/32" X 1/8" NPT | BTS 5/32 N1/8 | | FCS 5/32 N1/8 | | MCS 5/32 N1/8 | | MES 5/32 N1/8 | | YCS 5/32 N1/8 | |
| 1/4" X 1/8" NPT | BTS 1/4 N1/8 | | FCS 1/4 N1/8 | | MCS 1/4 N1/8 | | MES 1/4 N1/8 | | YCS 1/4 N1/8 | |
| 1/4" X 1/4" NPT | BTS 1/4 N1/4 | | FCS 1/4 N1/4 | | MCS 1/4 N1/4 | | MES 1/4 N1/4 | | YCS 1/4 N1/4 | |
| 1/4" X 3/8" NPT | BTS 1/4 N3/8 | | FCS 1/4 N3/8 | | MCS 1/4 N3/8 | | MES 1/4 N3/8 | | YCS 1/4 N3/8 | |
| 5/16" X 1/4" NPT | BTS 5/16 N1/4 | | FCS 5/16 N1/4 | | MCS 5/16 N1/4 | | MES 5/16 N1/4 | | YCS 5/16 N1/4 | |
| 5/16" X 3/8" NPT | BTS 5/16 N3/8 | | FCS 5/16 N3/8 | | MCS 5/16 N3/8 | | MES 5/16 N3/8 | | YCS 5/16 N3/8 | |
| 3/8" X 1/4" NPT | BTS 3/8 N1/4 | | FCS 3/8 N1/4 | | MCS 3/8 N1/4 | | MES 3/8 N1/4 | | YCS 3/8 N1/4 | |
| 3/8" X 3/8" NPT | BTS 3/8 N3/8 | | FCS 3/8 N3/8 | | MCS 3/8 N3/8 | | MES 3/8 N3/8 | | YCS 3/8 N3/8 | |
| 3/8" X 1/2" NPT | BTS 3/8 N1/2 | | FCS 3/8 N1/2 | | MCS 3/8 N1/2 | | MES 3/8 N1/2 | | YCS 3/8 N1/2 | |
| 1/2" X 1/4" NPT | BTS 1/2 N1/4 | | FCS 1/2 N1/4 | | MCS 1/2 N1/4 | | MES 1/2 N1/4 | | YCS 1/2 N1/4 | |
| 1/2" X 3/8" NPT | BTS 1/2 N3/8 | | FCS 1/2 N3/8 | | MCS 1/2 N3/8 | | MES 1/2 N3/8 | | YCS 1/2 N3/8 | |
| 1/2" X 1/2" NPT | BTS 1/2 N1/2 | | FCS 1/2 N1/2 | | MCS 1/2 N1/2 | | MES 1/2 N1/2 | | YCS 1/2 N1/2 | |

| | | | | | | | | | | |
|-----------------|------------|--|------------|--|------------|--|------------|--|------------|--|
| 4 mm X 10-32 | BTS 4 M5 | | FCS 4 M5 | | MCS 4 M5 | | MES 4 M5 | | YCS 4 M5 | |
| 4 mm X 1/8" NPT | BTS 4 N1/8 | | FCS 4 N1/8 | | MCS 4 N1/8 | | MES 4 N1/8 | | YCS 4 N1/8 | |
| 8 mm X 1/4" NPT | BTS 8 N1/4 | | FCS 8 N1/4 | | MCS 8 N1/4 | | MES 8 N1/4 | | YCS 8 N1/4 | |
| 8 mm X 3/8" NPT | BTS 8 N3/8 | | FCS 8 N3/8 | | MCS 8 N3/8 | | MES 8 N3/8 | | YCS 8 N3/8 | |

Nickel-Plated Brass Push-In Fittings

| Brass Fittings |  |  |  |  | | | | |
|----------------|---|---|--|---|----------------|--|-----------|--|
| Name | Bulkhead Union | | Elbow Union | | Straight Union | | Tee Union | |
| Tube OD | Part No. | | Part No. | | Part No. | | Part No. | |
| 1/8" | BUB 1/8 | | EUB 1/8 | | SUB 1/8 | | TUB 1/8 | |
| 5/32" | BUB 5/32 | | EUB 5/32 | | SUB 5/32 | | TUB 5/32 | |
| 1/4" | BUB 1/4 | | EUB 1/4 | | SUB 1/4 | | TUB 1/4 | |
| 5/16" | BUB 5/16 | | EUB 5/16 | | SUB 5/16 | | TUB 5/16 | |
| 3/8" | BUB 3/8 | | EUB 3/8 | | SUB 3/8 | | TUB 3/8 | |
| 1/2" | BUB 1/2 | | EUB 1/2 | | SUB 1/2 | | TUB 1/2 | |
| 4 mm | BUB 4 | | EUB 4 | | SUB 4 | | TUB 4 | |
| 6 mm | BUB 6 | | EUB 6 | | SUB 6 | | TUB 6 | |
| 8 mm | BUB 8 | | EUB 8 | | SUB 8 | | TUB 8 | |

| Brass Fittings |  |  |  |  |  | | | | | |
|------------------|---|---|---|---|---|--|--------------------|--|---------------------|--|
| Name | Branch Tee | | Female Connector | | Male Connector | | Male Elbow, Swivel | | Y Connector, Swivel | |
| Tube OD X Thread | Part No. | | Part No. | | Part No. | | Part No. | | Part No. | |
| 1/8" X 10-32 | BTB 1/8 10-32 | | FCB 1/8 10-32 | | MCB 1/8 10-32 | | MEB 1/8 10-32 | | YCB 1/8 10-32 | |
| 1/8" X 1/8" NPT | BTB 1/8 N1/8 | | FCB 1/8 N1/8 | | MCB 1/8 N1/8 | | MEB 1/8 N1/8 | | YCB 1/8 N1/8 | |
| 5/32" X 10-32 | BTB 5/32 10-32 | | FCB 5/32 10-32 | | MCB 5/32 10-32 | | MEB 5/32 10-32 | | YCB 5/32 10-32 | |
| 5/32" X 1/8" NPT | BTB 5/32 N1/8 | | FCB 5/32 N1/8 | | MCB 5/32 N1/8 | | MEB 5/32 N1/8 | | YCB 5/32 N1/8 | |
| 1/4" X 1/8" NPT | BTB 1/4 N1/8 | | FCB 1/4 N1/8 | | MCB 1/4 N1/8 | | MEB 1/4 N1/8 | | YCB 1/4 N1/8 | |
| 1/4" X 1/4" NPT | BTB 1/4 N1/4 | | FCB 1/4 N1/4 | | MCB 1/4 N1/4 | | MEB 1/4 N1/4 | | YCB 1/4 N1/4 | |
| 1/4" X 3/8" NPT | BTB 1/4 N3/8 | | FCB 1/4 N3/8 | | MCB 1/4 N3/8 | | MEB 1/4 N3/8 | | YCB 1/4 N3/8 | |
| 5/16" X 1/4" NPT | BTB 5/16 N1/4 | | FCB 5/16 N1/4 | | MCB 5/16 N1/4 | | MEB 5/16 N1/4 | | YCB 5/16 N1/4 | |
| 5/16" X 3/8" NPT | BTB 5/16 N3/8 | | FCB 5/16 N3/8 | | MCB 5/16 N3/8 | | MEB 5/16 N3/8 | | YCB 5/16 N3/8 | |
| 3/8" X 1/4" NPT | BTB 3/8 N1/4 | | FCB 3/8 N1/4 | | MCB 3/8 N1/4 | | MEB 3/8 N1/4 | | YCB 3/8 N1/4 | |
| 3/8" X 3/8" NPT | BTB 3/8 N3/8 | | FCB 3/8 N3/8 | | MCB 3/8 N3/8 | | MEB 3/8 N3/8 | | YCB 3/8 N3/8 | |
| 3/8" X 1/2" NPT | BTB 3/8 N1/2 | | FCB 3/8 N1/2 | | MCB 3/8 N1/2 | | MEB 3/8 N1/2 | | YCB 3/8 N1/2 | |
| 1/2" X 3/8" NPT | BTB 1/2 N3/8 | | FCB 1/2 N3/8 | | MCB 1/2 N3/8 | | MEB 1/2 N3/8 | | YCB 1/2 N3/8 | |
| 1/2" X 1/2" NPT | BTB 1/2 N1/2 | | FCB 1/2 N1/2 | | MCB 1/2 N1/2 | | MEB 1/2 N1/2 | | YCB 1/2 N1/2 | |
| 4 mm X M5 | BTB 4 M5 | | FCB 4 M5 | | MCB 4 M5 | | MEB 4 M5 | | YCB 4 M5 | |
| 4 X 1/8" NPT | BTB 4 N1/8 | | FCB 4 N1/8 | | MCB 4 N1/8 | | MEB 4 N1/8 | | YCB 4 N1/8 | |
| 8 mm X 1/4" NPT | BTB 8 N1/4 | | FCB 8 N1/4 | | MCB 8 N1/4 | | MEB 8 N1/4 | | YCB 8 N1/4 | |
| 8 mm X 3/8" NPT | BTB 8 N3/8 | | FCB 8 N3/8 | | MCB 8 N3/8 | | MEB 8 N3/8 | | YCB 8 N3/8 | |

| Metal Fittings |  |  |  |  |  |  |  |
|----------------|---|---|---|---|--|---|---|
| Name | Quick Exhaust | Shuttle Valve | In-line Flow Control | In-line Flow Control | Speed Control Muffler | Muffler | Union Valve |
| MODEL | QE | ST | ASC | AS | BESL | BSL | UV |
| PORT | NPT | NPT | NPT | NPT | NPT | NPT | |
| 10-32 | | | ASC 10-32 | | BESL 10-32 | BSL 10-32 | |
| 1/8 | QE N1/8 | ST N1/8 | ASC N1/8 | AS N1/8 | BESL N1/8 | BSL N1/8 | UV 1/4-1/4 |
| 1/4 | QE N1/4 | ST N1/4 | ASC N1/4 | AS N1/4 | BESL N1/4 | BSL N1/4 | UV 6-6 |
| 3/8 | QE N3/8 | ST N3/8 | ASC N3/8 | AS N3/8 | BESL N3/8 | BSL N3/8 | |
| 1/2 | QE N1/2 | ST N1/2 | ASC N1/2 | AS N1/2 | BESL N1/2 | BSL N1/2 | |
| 3/4 | QE N3/4 | ST N3/4 | | | | | |

Composite, Stainless Steel, and Nickel-Plated Brass Push-In Fittings Specifications

A. Installation of Pipe Fittings:

1. Tighten fitting by hand, then turn it 2 to 3 turns with a wrench until it reaches the desire torque listed. If the fitting is not pre-coated with sealant, or is used and the sealant is not in good condition, apply Teflon sealant tape to the threads.

| Recommendation of Torque for Tightening Fittings | | |
|--|---------------|----------------|
| Fitting Thread Size | Torque, lb-ft | Torque, kgf/cm |
| 10-32, M5 -M6 | 1.0 -1.5 | 14 -21 |
| NPT1/8, R1/8 | 5 -6.5 | 70 -90 |
| NPT1/4, R1/4 | 8.5 -10 | 120 -140 |
| NPT3/8, R3/8 | 16 -17.5 | 220 -240 |
| NPT1/2, R1/2 | 20 -21.5 | 280 -300 |

B. Installation of Tubing into Fitting:

1. Slowly push a clean and perpendicularly cut tubing into the fitting until it comes to a dead stop.
2. Pull the tubing back gently until the Grip Ring or Collet of the fitting grips onto the tubing and has a good seal.
3. Use Polyethylene, Polypropylene, Polyurethane or Nylon Tubing designed for instant fittings.
Hard metal tubing can be used for all metal Stainless Steel and all Brass fittings if tubing is pre-grooved.

C. Removal of Tubing from Fitting:

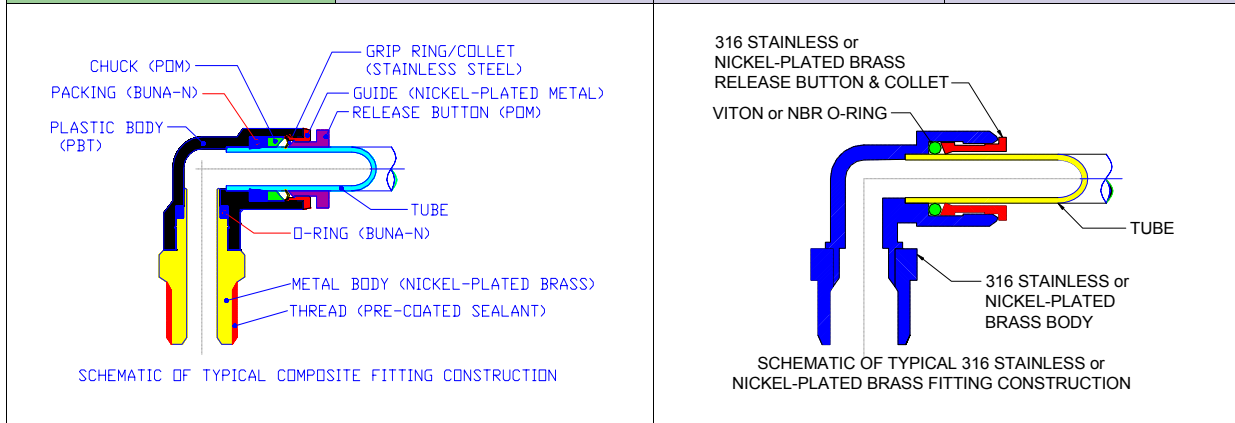
1. Push in evenly on the two long oval sides of the Release Button.
2. Pull out the tube while keeping the Release Button depressed.
3. To reuse the tubing; cut off the lodged portion of the previously used tubing evenly and perpendicularly.

D. Recommended Tubing Material, Size and Hardness Requirements:

| Tubing Material | Specified Size | Hardness (Durometer) |
|--------------------------|-------------------------|----------------------|
| Polyurethane | +/- 0.006" (+/-0.15 mm) | Shore A 85 or higher |
| Polyethylene | +/- 0.004" (+/-0.1 mm) | Shore D 44 or higher |
| Polypropylene | +/- 0.004" (+/-0.1 mm) | Shore D 44 or higher |
| Nylon | +/- 0.004" (+/-0.1 mm) | Shore D 44 or higher |
| Pre-grooved Metal Tubing | +/- 0.004" (+/-0.1 mm) | |

E. Specifications, Materials of Construction and Schematic of Typical Construction:

| | Composite Fittings | Stainless Steel Fittings | Nickel-Plated Brass Fittings |
|-----------------------------|--|--|------------------------------|
| Operating Pressure Range | 0 - 150 PSI (0 - 990 kpa) | 0 - 250 PSI (0 - 1650 kpa) | 0 - 250 PSI (0 - 1650 kpa) |
| Vacuum | 0 - 29.5 in Hg (750 mm Hg) | 0 - 29.5 in Hg (750 mm Hg) | 0 - 29.5 in Hg (750 mm Hg) |
| Operating Temperature | 32 - 140 °F (0 - 60 °C) | 5 - 230 °F (-15 to 110 °C) | 5 - 230 °F (-15 to 110 °C) |
| Recommended Tubing Material | Polyurethane, Nylon, Polyethylene, Polypropylene | Polyurethane, Nylon, Polyethylene, Polypropylene, and Hard metal tubing (tubing must be pre-grooved) | |
| Metal Body | Brass, Nickel Plated | T316 Stainless Steel | Nickel-Plated Brass |
| Plastic Body | PBT (Polybutylene terephthalate) | None | None |
| Release Button | POM (Poly oxy methylene copolymer) | 300 series Stainless Steel | Nickel-Plated Brass |
| Grip Ring or Collet | 300 series Stainless Steel | 300 series Stainless Steel | 300 series Stainless Steel |
| O-ring | NBR (Buna-N) | VITON | NBR/VITON/EPDM |
| Thread Sealant | Teflon | None | Teflon |













A Series Filter Regulator Lubricator

| | Part No. | Description (* Includes Bracket & Gauge) | |
|---|---|---|---|
|  <p>Includes Bracket & Gauge</p> | AC1000-M5 | M5/10-32 Filter- Regulator- Lubricator* (3 SCFM) | |
| | AC2000-01 | 1/8" NPT Filter- Regulator- Lubricator* (18 SCFM) | |
| | AC2000-01D | 1/8" NPT Filter- Regulator- Lubricator* with Auto Drain (18 SCFM) | |
| | AC2000-01M | 1/8" NPT Filter- Regulator- Lubricator* Metal Bowl (18 SCFM) | |
| | AC2000-01DM | 1/8" NPT Filter- Regulator- Lubricator* with Auto Drain & Metal Bowl (18 SCFM) | |
| | AC2000-02 | 1/4" NPT Filter- Regulator- Lubricator* (18 SCFM) | |
| | AC2000-02D | 1/4" NPT Filter- Regulator- Lubricator* with Auto Drain (18 SCFM) | |
| | AC2000-02M | 1/4" NPT Filter- Regulator- Lubricator* Metal Bowl (18 SCFM) | |
| | AC2000-02DM | 1/4" NPT Filter- Regulator- Lubricator* with Auto Drain & Metal Bowl (18 SCFM) | |
| |  <p>Includes Bracket & Gauge</p> | AC3000-02 | 1/4" NPT Filter- Regulator- Lubricator* (70 SCFM) |
| AC3000-02D | | 1/4" NPT Filter- Regulator- Lubricator* with Auto Drain (70 SCFM) | |
| AC3000-02M | | 1/4" NPT Filter- Regulator- Lubricator* with Metal Bowl (70 SCFM) | |
| AC3000-02DM | | 1/4" NPT Filter- Regulator- Lubricator* with Auto Drain & Metal Bowl (70 SCFM) | |
| AC3000-03 | | 3/8" NPT Filter- Regulator- Lubricator* (70 SCFM) | |
| AC3000-03D | | 3/8" NPT Filter- Regulator- Lubricator* with Auto Drain (70 SCFM) | |
| AC3000-03M | | 3/8" NPT Filter- Regulator- Lubricator* with Metal Bowl (70 SCFM) | |
| AC3000-03DM | | 3/8" NPT Filter- Regulator- Lubricator* with Auto Drain & Metal Bowl (70 SCFM) | |
| AC4000-03 | | 3/8" NPT Filter- Regulator- Lubricator* (140 SCFM) | |
| AC4000-03D | | 3/8" NPT Filter- Regulator- Lubricator* with Auto Drain (140 SCFM) | |
| AC4000-03M | | 3/8" NPT Filter- Regulator- Lubricator* with Metal Bowl (140 SCFM) | |
| AC4000-03DM | | 3/8" NPT Filter- Regulator- Lubricator* with Auto Drain & Metal Bowl (140 SCFM) | |
| AC4000-04 | | 1/2" NPT Filter- Regulator- Lubricator* (140 SCFM) | |
| AC4000-04D | | 1/2" NPT Filter- Regulator- Lubricator* with Auto Drain (140 SCFM) | |
| AC4000-04M | | 1/2" NPT Filter- Regulator- Lubricator* with Metal Bowl (140 SCFM) | |
| AC4000-04DM | | 1/2" NPT Filter- Regulator- Lubricator* with Auto Drain & Metal Bowl (140 SCFM) | |
| AC4000-06 | | 3/4" NPT Filter- Regulator- Lubricator* (160 SCFM) | |
| AC4000-06D | | 3/4" NPT Filter- Regulator- Lubricator* with Auto Drain (160 SCFM) | |
| AC4000-06M | 3/4" NPT Filter- Regulator- Lubricator* with Metal Bowl (160 SCFM) | | |
| AC4000-06DM | 3/4" NPT Filter- Regulator- Lubricator* with Auto Drain & Metal Bowl (160 SCFM) | | |
|  <p>Includes Bracket & Gauge</p> | AC5000-10 | 1" NPT Filter- Regulator- Lubricator* (180 SCFM) | |
| | AC5000-10D | 1" NPT Filter- Regulator- Lubricator* with Auto Drain (180 SCFM) | |
| | AC5000-10M | 1" NPT Filter- Regulator- Lubricator* with Metal Bowl (180 SCFM) | |
| | AC5000-10DM | 1" NPT Filter- Regulator- Lubricator* with Auto Drain & Metal Bowl (180 SCFM) | |
| |  <p>Includes Bracket & Gauge</p> | AC1010-M5 | M5/10-32 Stacking Filter- Regulator- Lubricator* (3 SCFM) |
| | | AC2010-01 | 1/8" NPT Stacking Filter- Regulator- Lubricator* (18 SCFM) |
| | | AC2010-01D | 1/8" NPT Stacking Filter- Regulator- Lubricator* with Auto Drain (18 SCFM) |
| | | AC2010-01M | 1/8" NPT Stacking Filter- Regulator- Lubricator* with Metal Bowl (18 SCFM) |
| | | AC2010-01DM | 1/8" NPT Stacking Filter- Regulator- Lubricator* with Auto Drain & Metal Bowl (18 SCFM) |
| | | AC2010-02 | 1/4" NPT Stacking Filter- Regulator- Lubricator* (18 SCFM) |
| AC2010-02D | | 1/4" NPT Stacking Filter- Regulator- Lubricator* with Auto Drain (18 SCFM) | |
| AC2010-02M | | 1/4" NPT Stacking Filter- Regulator- Lubricator* with Metal Bowl (18 SCFM) | |
| AC2010-02DM | | 1/4" NPT Stacking Filter- Regulator- Lubricator* with Auto Drain & Metal Bowl (18 SCFM) | |
| AC3010-02 | | 1/4" NPT Stacking Filter- Regulator- Lubricator* (60 SCFM) | |
| AC3010-02D | | 1/4" NPT Stacking Filter- Regulator- Lubricator* with Auto Drain (60 SCFM) | |
| AC3010-02M | | 1/4" NPT Stacking Filter- Regulator- Lubricator* with Metal Bowl (60 SCFM) | |
| AC3010-02DM | | 1/4" NPT Stacking Filter- Regulator- Lubricator* with Auto Drain & Metal Bowl (60 SCFM) | |
| AC3010-03 | | 3/8" NPT Stacking Filter- Regulator- Lubricator* (60 SCFM) | |
| AC3010-03D | | 3/8" NPT Stacking Filter- Regulator- Lubricator* with Auto Drain (60 SCFM) | |
| AC3010-03M | | 3/8" NPT Stacking Filter- Regulator- Lubricator* with Metal Bowl (60 SCFM) | |
| AC3010-03DM | | 3/8" NPT Stacking Filter- Regulator- Lubricator* with Auto Drain & Metal Bowl (60 SCFM) | |
| AC4010-03 | | 3/8" NPT Stacking Filter- Regulator- Lubricator* (105 SCFM) | |
| AC4010-03D | 3/8" NPT Stacking Filter- Regulator- Lubricator* with Auto Drain (105 SCFM) | | |
| AC4010-03M | 3/8" NPT Stacking Filter- Regulator- Lubricator* with Metal Bowl (105 SCFM) | | |
| AC4010-03DM | 3/8" NPT Stacking Filter- Regulator- Lubricator* with Auto Drain & Metal Bowl (105 SCFM) | | |
| AC4010-04 | 1/2" NPT Stacking Filter- Regulator- Lubricator* (105 SCFM) | | |
| AC4010-04D | 1/2" NPT Stacking Filter- Regulator- Lubricator* with Auto Drain (105 SCFM) | | |
| AC4010-04M | 1/2" NPT Stacking Filter- Regulator- Lubricator* with Metal Bowl (105 SCFM) | | |
| AC4010-04DM | 1/2" NPT Stacking Filter- Regulator- Lubricator* with Auto Drain & Metal Bowl (105 SCFM) | | |
| AC4010-06 | 3/4" NPT Stacking Filter- Regulator- Lubricator* (105 SCFM) | | |
| AC4010-06D | 3/4" NPT Stacking Filter- Regulator- Lubricator* with Auto Drain (105 SCFM) | | |
| AC4010-06M | 3/4" NPT Stacking Filter- Regulator- Lubricator* with Metal Bowl (105 SCFM) | | |
| AC4010-06DM | 3/4" NPT Stacking Filter- Regulator- Lubricator* with Auto Drain & Metal Bowl (105 SCFM) | | |
| AC5010-10 | 1" NPT Stacking Filter- Regulator- Lubricator* (140 SCFM) | | |
| AC5010-10D | 1" NPT Stacking Filter- Regulator- Lubricator* with Auto Drain (140 SCFM) | | |
| AC5010-10M | 1" NPT Stacking Filter- Regulator- Lubricator* with Metal Bowl (140 SCFM) | | |
| AC5010-10DM | 1" NPT Stacking Filter- Regulator- Lubricator* with Auto Drain & Metal Bowl (140 SCFM) | | |
|  <p>Includes Bracket & Gauge</p> | AR1000-M5 | M5/10-32 Regulator* (4 SCFM) | |
| | AR2000-01 | 1/8" NPT Regulator* (19 SCFM) | |
| | AR2000-02 | 1/4" NPT Regulator* (19 SCFM) | |
| | AR2500-02 | 1/4" NPT Regulator* (50 SCFM) | |
| | AR3000-02 | 1/4" NPT Regulator* (88 SCFM) | |
| | AR3000-03 | 3/8" NPT Regulator* (88 SCFM) | |
| | AR4000-03 | 3/8" NPT Regulator* (210 SCFM) | |
| | AR4000-04 | 1/2" NPT Regulator* (210 SCFM) | |
| | AR4000-06 | 3/4" NPT Regulator* (210 SCFM) | |
| | AR5000-10 | 1" NPT Regulator* (280 SCFM) | |

A Series Filter Regulator Lubricator

| | Part No. | Description (* Includes Bracket & Gauge) | |
|---|--|--|---|
|  | AF1000-M5 | M5 Filter (4 SCFM) | |
| | AF2000-01 | 1/8" NPT Filter (26 SCFM) | |
| | AF2000-01D | 1/8" NPT Filter with Auto Drain (26 SCFM) | |
| | AF2000-01M | 1/8" NPT Filter with Metal Bowl (26 SCFM) | |
| | AF2000-01DM | 1/8" NPT Filter with Auto Drain & Metal Bowl (26 SCFM) | |
| | AF2000-02 | 1/4" NPT Filter (26 SCFM) | |
| | AF2000-02D | 1/4" NPT Filter with Auto Drain (26 SCFM) | |
| | AF2000-02M | 1/4" NPT Filter with Metal Bowl (26 SCFM) | |
| | AF2000-02DM | 1/4" NPT Filter Auto Drain & Metal Bowl (26 SCFM) | |
| |  <p style="font-size: small;">With Metal Bowl</p>  <p style="font-size: small;">Polycarbonate Bowl with Metal Shield</p> | AF3000-02 | 1/4" NPT Filter (70 SCFM) |
| | | AF3000-02D | 1/4" NPT Filter with Auto Drain (70 SCFM) |
| | | AF3000-02M | 1/4" NPT Filter with Metal Bowl (70 SCFM) |
| | | AF3000-02DM | 1/4" NPT Filter Auto Drain & Metal Bowl (70 SCFM) |
| | | AF3000-03 | 3/8" NPT Filter (70 SCFM) |
| AF3000-03D | | 3/8" NPT Filter with Auto Drain (70 SCFM) | |
| AF3000-03M | | 3/8" NPT Filter with Metal Bowl (70 SCFM) | |
| AF3000-03DM | | 3/8" NPT Filter Auto Drain & Metal Bowl (70 SCFM) | |
| AF4000-03 | | 3/8" NPT Filter (140 SCFM) | |
| AF4000-03D | | 3/8" NPT Filter with Auto Drain (140 SCFM) | |
| AF4000-03M | | 3/8" NPT Filter with Metal Bowl (140 SCFM) | |
| AF4000-03DM | | 3/8" NPT Filter Auto Drain & Metal Bowl (140 SCFM) | |
| AF4000-04 | | 1/2" NPT Filter (140 SCFM) | |
| AF4000-04D | | 1/2" NPT Filter with Auto Drain (140 SCFM) | |
| AF4000-04M | 1/2" NPT Filter with Metal Bowl (140 SCFM) | | |
| AF4000-04DM | 1/2" NPT Filter Auto Drain & Metal Bowl (140 SCFM) | | |
| AF4000-06 | 3/4" NPT Filter (210 SCFM) | | |
| AF4000-06D | 3/4" NPT Filter with Auto Drain (210 SCFM) | | |
| AF4000-06M | 3/4" NPT Filter with Metal Bowl (210 SCFM) | | |
| AF4000-06DM | 3/4" NPT Filter Auto Drain & Metal Bowl (210 SCFM) | | |
| AF5000-10 | 1" NPT Filter (245 SCFM) | | |
| AF5000-10D | 1" NPT Filter with Auto Drain (245 SCFM) | | |
| AF5000-10M | 1" NPT Filter with Metal Bowl (245 SCFM) | | |
| AF5000-10DM | 1" NPT Filter with Auto Drain & Metal Bowl (245 SCFM) | | |
|  | AL1000-M5 | M5 Lubricator (3 SCFM) | |
| | AL2000-01 | 1/8" NPT Lubricator (28 SCFM) | |
| | AL2000-01M | 1/8" NPT Lubricator with Metal Bowl (28 SCFM) | |
| | AL2000-02 | 1/4" NPT Lubricator (28 SCFM) | |
| | AL2000-02M | 1/4" NPT Lubricator with Metal Bowl (28 SCFM) | |
| |  | AL3000-02 | 1/4" NPT Lubricator (60 SCFM) |
| | | AL3000-02M | 1/4" NPT Lubricator with Metal Bowl (60 SCFM) |
| | | AL3000-03 | 3/8" NPT Lubricator (60 SCFM) |
| | | AL3000-03M | 3/8" NPT Lubricator with Metal Bowl (60 SCFM) |
| | | AL4000-03 | 3/8" NPT Lubricator (180 SCFM) |
| | | AL4000-03M | 3/8" NPT Lubricator with Metal Bowl (180 SCFM) |
| | | AL4000-04 | 1/2" NPT Lubricator (180 SCFM) |
| | | AL4000-04M | 1/2" NPT Lubricator with Metal Bowl (180 SCFM) |
| | | AL4000-06 | 3/4" NPT Lubricator (220 SCFM) |
| AL4000-06M | | 3/4" NPT Lubricator with Metal Bowl (220 SCFM) | |
| AL5000-10 | | 1" NPT Lubricator (245 SCFM) | |
| AL5000-10M | | 1" NPT Lubricator with Metal Bowl (245 SCFM) | |
|  <p style="font-size: small;">Includes Bracket & Gauge</p> | | AW1000-M5 | M5 Filter- Regulator* (3 SCFM) |
| | | AW2000-01 | 1/8" NPT Filter- Regulator* (19 SCFM) |
| | AW2000-01D | 1/8" NPT Filter- Regulator* with Auto Drain (19 SCFM) | |
| | AW2000-01M | 1/8" NPT Filter- Regulator* with Metal Bowl (19 SCFM) | |
| | AW2000-01DM | 1/8" NPT Filter- Regulator* Auto Drain & Metal Bowl (19 SCFM) | |
| | AW2000-02 | 1/4" NPT Filter- Regulator* (19 SCFM) | |
| | AW2000-02D | 1/4" NPT Filter- Regulator* with Auto Drain (19 SCFM) | |
| | AW2000-02M | 1/4" NPT Filter- Regulator* with Metal Bowl (19 SCFM) | |
| | AW2000-02DM | 1/4" NPT Filter- Regulator* Auto Drain & Metal Bowl (19 SCFM) | |
| |  <p style="font-size: small;">Includes Bracket & Gauge</p> | AW3000-02 | 1/4" NPT Filter- Regulator* (70 SCFM) |
| | | AW3000-02D | 1/4" NPT Filter- Regulator* with Auto Drain (70 SCFM) |
| | | AW3000-02M | 1/4" NPT Filter- Regulator* with Metal Bowl (70 SCFM) |
| | | AW3000-02DM | 1/4" NPT Filter- Regulator* Auto Drain & Metal Bowl (70 SCFM) |
| | | AW3000-03 | 3/8" NPT Filter- Regulator* (70 SCFM) |
| AW3000-03D | | 3/8" NPT Filter- Regulator* with Auto Drain (70 SCFM) | |
| AW3000-03M | | 3/8" NPT Filter- Regulator* with Metal Bowl (70 SCFM) | |
| AW3000-03DM | | 3/8" NPT Filter- Regulator* Auto Drain & Metal Bowl (70 SCFM) | |
| AW4000-03 | | 3/8" NPT Filter- Regulator* (140 SCFM) | |
| AW4000-03D | | 3/8" NPT Filter- Regulator* with Auto Drain (140 SCFM) | |
| AW4000-03M | | 3/8" NPT Filter- Regulator* with Metal Bowl (140 SCFM) | |
| AW4000-03DM | | 3/8" NPT Filter- Regulator* Auto Drain & Metal Bowl (140 SCFM) | |
| AW4000-04 | | 1/2" NPT Filter- Regulator* (140 SCFM) | |
| AW4000-04D | | 1/2" NPT Filter- Regulator* with Auto Drain (140 SCFM) | |
| AW4000-04M | 1/2" NPT Filter- Regulator* with Metal Bowl (140 SCFM) | | |
| AW4000-04DM | 1/2" NPT Filter- Regulator* Auto Drain & Metal Bowl (140 SCFM) | | |
| AW4000-06 | 3/4" NPT Filter- Regulator* (160 SCFM) | | |
| AW4000-06D | 3/4" NPT Filter- Regulator* with Auto Drain (160 SCFM) | | |
| AW4000-06M | 3/4" NPT Filter- Regulator* with Metal Bowl (160 SCFM) | | |
| AW4000-06DM | 3/4" NPT Filter- Regulator* Auto Drain & Metal Bowl (160 SCFM) | | |
| AW5000-10 | 1" NPT Filter- Regulator* (195 SCFM) | | |
| AW5000-10D | 1" NPT Filter- Regulator* with Auto Drain (195 SCFM) | | |
| AW5000-10M | 1" NPT Filter- Regulator* with Metal Bowl (195 SCFM) | | |
| AW5000-10DM | 1" NPT Filter- Regulator* Auto Drain & Metal Bowl (195 SCFM) | | |

A Series FRL Mounting Hardware

| | Part No. | Description | |
|---|--|---|--|
|  | Y20 | Spacer for AC2000 | |
| | Y30 | Spacer for AC3000 | |
| | Y40 | Spacer for AC4000-04 | |
| | Y50 | Spacer for AC4000-06 | |
| | Y60 | Spacer for AC5000 | |
|  | Y20L | L-Type Spacer Bracket for AC2000 | |
| | Y30L | L-Type Spacer Bracket for AC3000 | |
| | Y40L | L-Type Spacer Bracket for AC4000-04 | |
| | Y50L | L-Type Spacer Bracket for AC4000-06 | |
| | Y60L | L-Type Spacer Bracket for AC5000 | |
|  | Y20T | T-Type Spacer Bracket for AC2010 | |
| | Y30T | T-Type Spacer Bracket for AC3010 | |
| | Y40T | T-Type Spacer Bracket for AC4010-04 | |
| | Y50T | T-Type Spacer Bracket for AC4010-06 | |
| | Y60T | T-Type Spacer Bracket for AC5010 | |
|  | Y21-N01 | T-Type Spacer with 1/8 NPT Port for AC2000 | |
| | Y21-N02 | T-Type Spacer with 1/4 NPT Port for AC2000 | |
| | Y31-N01 | T-Type Spacer with 1/8 NPT Port for AC3000 | |
| | Y31-N02 | T-Type Spacer with 1/4 NPT Port for AC3000 | |
| | Y41-N02 | T-Type Spacer with 1/4 NPT Port for AC4000 | |
| | Y41-N03 | T-Type Spacer with 3/8 NPT Port for AC4000 | |
| | Y61-N03 | T-Type Spacer with 3/8 NPT Port for AC5000 | |
|  | B110L | L-Bracket for AC1000 | |
| | B210L | L-Bracket for AC2000 | |
| | B310L | L-Bracket for AC3000 | |
| | B410L | L-Bracket for AC4000 | |
| | B510L | L-Bracket for AC4000-06 | |
|  | B110T | T-Bracket for AC1010 | |
| | B210T | T-Bracket for AC2010 | |
| | B310T | T-Bracket for AC3010 | |
| | B410T | T-Bracket for AC4010 | |
| | B510T | L-Bracket for AC4010-06 | |
|  | B120 | Bracket for AR/AW1000 | |
| | B220 | Bracket for AR/AW2000 | |
| | B320 | Bracket for AR/AW3000 | |
| | B420 | Bracket for AR/AW4000-5000 | |
|  | B240 | Bracket for AF/AL2000 | |
| | B340 | Bracket for AF/AL3000 | |
| | B440 | Bracket for AF/AL4000-04 | |
| | B540 | Bracket for AF/AL4000-06 | |
| | B640 | Bracket for AF/AL5000 | |
|  | GE-1-160-00 | 1" Dia. 1/16" R 0-160 PSI back mount pressure gauge | |
| | GE-1 1/2-30-01 | 1 1/2" Dia. 1/8" NPT 0-30 PSI back mount pressure gauge | |
| | GE-1 1/2-60-01 | 1 1/2" Dia. 1/8" NPT 0-60 PSI back mount pressure gauge | |
| | GE-1 1/2-160-01 | 1 1/2" Dia. 1/8" NPT 0-160 PSI back mount pressure gauge | |
| | GP-1 1/2-160-01 | 1 1/2" Dia. 1/8" NPT 0-160 PSI panel mount pressure gauge | |
| | GE-2-30-02 | 2" Dia. 1/4" NPT 0-30 PSI back mount pressure gauge | |
| | GE-2-60-02 | 2" Dia. 1/4" NPT 0-60 PSI back mount pressure gauge | |
| | GE-2-160-02 | 2" Dia. 1/4" NPT 0-160 PSI back mount pressure gauge | |
| | GP-2-160-02 | 2" Dia. 1/4" NPT 0-160 PSI panel mount pressure gauge | |
| | GA-1 1/2-60-01 | 1.5" Dia. 1/8" NPT 0-60 PSI SS housing back mount glycerin filled | |
| GA-1 1/2-160-01 | 1.5" Dia. 1/8" NPT 0-160 PSI SS housing back mount glycerin filled | | |
|  | VHS2000-01 | 1/8" NPT Relieving Shut-off /Lockout Valve for 2000-01 Series FRL | |
| | VHS2000-02 | 1/4" NPT Relieving Shut-off /Lockout Valve for 2000-02 Series FRL | |
| | VHS3000-02 | 1/4" NPT Relieving Shut-off /Lockout Valve for 3000-02 Series FRL | |
| | VHS3000-03 | 3/8" NPT Relieving Shut-off /Lockout Valve for 3000-03 Series FRL | |
| | VHS4000-03 | 3/8" NPT Relieving Shut-off /Lockout Valve for 4000-03 Series FRL | |
| | VHS4000-04 | 1/2" NPT Relieving Shut-off /Lockout Valve for 4000-04 Series FRL | |
| | VHS4000-06 | 3/4" NPT Relieving Shut-off /Lockout Valve for 4000-06 Series FRL | |
| | VHS5000-10 | 1" NPT Relieving Shut-off /Lockout Valve for 5000 Series FRL | |

Solenoid Valve






To Order, Please Specify: 1. Model No. 2. Voltage 3. Electrical Entry Options

| | Part No. | | Voltage & Electrical Connection Options | Port Size (NPT) | # Way/Port/Position/ Solenoid | Cv | Power |
|--|------------|--|--|----------------------------|----------------------------------|-------|----------------|
| | 2V025-1/8 | | A. Voltage Options: 1 = 12 VDC 2 = 24VDC 2A=24VAC 3 = 110VAC 4 = 220VAC B. Terminal Options: D = DIN (with LED indicator & Conduit Terminal) G = Grommet (12" Lead Wire) | 1/8 | 2/2/2/1 Direct Acting | 0.23 | 3W to 6.5 W |
| | 2V025-1/4 | | | 1/4 | | | |
| | 2V035-1/8 | | | 1/8 | 3/2/2/1 Direct Acting | 0.1 | |
| | 2V035-1/4 | | | 1/4 | | | |
| | 2P025-1/8 | | | 1/8 | 2/2/2/1 Direct Acting | 0.23 | |
| | 2P025-1/4 | | | 1/4 | | | |
| | 2P035-1/8 | | | 1/8 | 3/2/2/1 Direct Acting | 0.1 | |
| | 2P035-1/4 | | | 1/4 | | | |
| | 2V1-1/8 | | | 1/8 | 2/2/2/1 Direct Acting | 0.23 | |
| | 3V1-1/8 | | | 1/8 | 3/2/2/1 Direct Acting | 0.1 | |
| | 3V110-1/8 | | | 1/8 | 3/3/2/1 | 0.67 | 2.5 W |
| | 3V210-1/4 | | | 1/4, 1/8 (Exh) | | 0.89 | 3 W |
| | 3V310-3/8 | | | 3/8, 1/4 (Exh) | | 1.68 | 3 W |
| | 3V410-1/2 | | | 1/2 | | 2.79 | 3 W |
| | 3V120-1/8 | | | 1/8 | 3/3/2/2 | 0.67 | 2.5 W |
| | 3V220-1/4 | | | 1/4, 1/8 (Exh) | | 0.89 | 3 W |
| | 3V320-3/8 | | | 3/8, 1/4 (Exh) | | 1.68 | 3 W |
| | 3V420-1/2 | | | 1/2 | | 2.79 | 3 W |
| | 4V110-1/8 | | | 1/8 | 4/5/2/1 | 0.67 | 2.5 W |
| | 4V210-1/4 | | | 1/4, 1/8 (Exh) | | 0.89 | 3 W |
| | 4V310-3/8 | | 3/8, 1/4 (Exh) | 1.68 | | 3 W | |
| | 4V410-1/2 | | 1/2 | 2.79 | | 3 W | |
| | 3V310B-1/4 | | 1/4 | 3/3/2/1 | 1.68 | 3 W | |
| | 4V310B-1/4 | | 1/4 | 4/5/2/1 | 1.68 | 3 W | |
| | 4V310B-3/8 | | 3/8, 1/4 (Exh) | | 1.68 | 3 W | |
| | 4V120-1/8 | | 1/8 | 4/5/2/2 | 0.67 | 2.5 W | |
| | 4V220-1/4 | | 1/4, 1/8 (Exh) | | 0.89 | 3 W | |
| | 4V320-3/8 | | 3/8, 1/4 (Exh) | | 1.68 | 3 W | |
| | 4V420-1/2 | | 1/2 | | 2.79 | 3 W | |
| | 4V130C-1/8 | | 1/8 | 4/5/3/2 Closed Center | 0.5 | 2.5 W | |
| | 4V230C-1/4 | | 1/4, 1/8 (Exh) | | 0.67 | 3 W | |
| | 4V330C-3/8 | | 3/8, 1/4 (Exh) | | 1 | 3 W | |
| | 4V430C-1/2 | | 1/2 | 1.68 | 3 W | | |
| | 4V130P-1/8 | | 1/8 | 4/5/3/2 Pressure Center | 0.5 | 2.5 W | |
| | 4V230P-1/4 | | 1/4, 1/8 (Exh) | | 0.67 | 3 W | |
| | 4V330P-3/8 | | 3/8, 1/4 (Exh) | | 1 | 3 W | |
| | 4V430P-1/2 | | 1/2 | 1.68 | 3 W | | |
| | 4V130E-1/8 | | 1/8 | 4/5/3/2 Exhaust Center | 0.5 | 2.5 W | |
| | 4V230E-1/4 | | 1/4, 1/8 (Exh) | | 0.67 | 3 W | |
| | 4V330E-3/8 | | 3/8, 1/4 (Exh) | | 1 | 3 W | |
| | 4V430E-1/2 | | 1/2 | 1.68 | 3 W | | |

Solenoid & Air Pilot Valves



| | Part No. | Price | Voltage Options | Electrical Connection Options | Power Consumption | Specifications | |
|--|----------|-------|---|--|-------------------|---|---|
| | 100C | | Voltage Options: 1 = 12 VDC 2 = 24VDC 2A=24VAC 3 = 110VAC 4 = 220VAC | D = DIN (with LED indicator, conduit terminal) | 2.5 W | Insulation: F Class IP65; Duty Cycle: 100% ED; CE Certification | To connect DIN coil: 1. Remove the Philip screw from the plastic housing and unplug it from the DIN coil. 2. From the screw opening, use the screw to push the terminal block out of the plastic housing. 3. Note the 1, 2 and ground markings on underside of DIN enclosure. 4. For DC DIN Coil, Connect 1 to Positive, 2 to Negative. 5. For AC DIN Coil, connect 1 to HOT wire, 2 to Neutral wire, and if required connect ground to ground wire. To connect Grommet coil: 1. For DC Coil, connect one of the two wires to Positive, and the other wire to Negative. 2. For AC Coil, connect one of the two wires to HOT wire, |
| | 200C | | | | 3W | | |
| | 100C | | | G = Grommet (12" Lead Wire) | 2.5 W | | |
| | 200C | | | 3 W | | | |

Air Pilot Valve

| | Part No. | Port Size (NPT) | # Ways/Port/Position/Pilot | Cv | | Part No. | Port Size (NPT) | # Ways/Port/Position/Pilot | Cv |
|---|-----------|-----------------|----------------------------|------|---|------------|-----------------|----------------------------|------|
|  | 3A110-1/8 | 1/8 | 3/3/2/1 | 0.67 |  | 4A130C-1/8 | 1/8 | 4/5/3/2 Closed Center | 0.5 |
| | 3A210-1/4 | 1/4, 1/8 (Exh) | | 0.89 | | 4A230C-1/4 | 1/4, 1/8 (Exh) | | 0.67 |
| | 3A310-3/8 | 3/8, 1/4 (Exh) | | 1.68 | | 4A330C-3/8 | 3/8, 1/4 (Exh) | | 1 |
| | 3A410-1/2 | 1/2 | | 2.79 | | 4A430C-1/2 | 1/2 | | 1.68 |
|  | 3A120-1/8 | 1/8 | 3/3/2/2 | 0.67 | | 4A130P-1/8 | 1/8 | 4/5/3/2 Pressure Center | 0.5 |
| | 3A220-1/4 | 1/4, 1/8 (Exh) | | 0.89 | | 4A230P-1/4 | 1/4, 1/8 (Exh) | | 0.67 |
| | 3A320-3/8 | 3/8, 1/4 (Exh) | | 1.68 | | 4A330P-3/8 | 3/8, 1/4 (Exh) | | 1 |
| | 3A420-1/2 | 1/2 | | 2.79 | | 4A430P-1/2 | 1/2 | | 1.68 |
|  | 4A110-1/8 | 1/8 | 4/5/2/1 | 0.67 | | 4A130E-1/8 | 1/8 | 4/5/3/2 Exhaust Center | 0.5 |
| | 4A210-1/4 | 1/4, 1/8 (Exh) | | 0.89 | | 4A230E-1/4 | 1/4, 1/8 (Exh) | | 0.67 |
| | 4A310-3/8 | 3/8, 1/4 (Exh) | | 1.68 | | 4A330E-3/8 | 3/8, 1/4 (Exh) | | 1 |
| | 4A410-1/2 | 1/2 | | 2.79 | | 4A430E-1/2 | 1/2 | | 1.68 |
|  | 4A120-1/8 | 1/8 | 4/5/2/2 | 0.67 | | | | | |
| | 4A220-1/4 | 1/4, 1/8 (Exh) | | 0.89 | | | | | |
| | 4A320-3/8 | 3/8, 1/4 (Exh) | | 1.68 | | | | | |
| | 4A420-1/2 | 1/2 | | 2.79 | | | | | |

Integrated Aluminum Base Mounted Manifolds*

To Order, Please Specify: 1. Model No. 2. Voltage 3. Electrical Entry Options

| | Part No. | Number of Stations | Description | | Part No. | Number of Stations | Description |
|--|-------------|--|--|---|--|--------------------|--|
|  | 3V-100M-2 | 2 stations | Integrated Base for Mounting 3V100 or 3A100 series Solenoid Valves |  | 4V-100M-2 | 2 station | Integrated Base for Mounting 4V100 or 4A100 series Solenoid Valves |
| | 3V-100M-4 | 4 stations | | | 4V-100M-4 | 4 station | |
| | 3V-100M-6 | 6 stations | | | 4V-100M-6 | 6 station | |
| | 3V-100M-8 | 8 stations | | | 4V-100M-8 | 8 stations | |
| | 3V-100M-16 | 16 stations | | | 4V-100M-16 | 16 stations | |
| | 3V-100M-B | blank plate | | | 4V-100M-B | blank plate | |
| | 3V-200M-2 | 2 stations | Integrated Base for Mounting 3V200 or 3A200 series Solenoid Valves | | 4V-200M-2 | 2 stations | Integrated Base for Mounting 4V200 or 4A200 series Solenoid Valves |
| | 3V-200M-4 | 4 stations | | | 4V-200M-4 | 4 stations | |
| | 3V-200M-6 | 6 stations | | | 4V-200M-6 | 6 stations | |
| | 3V-200M-8 | 8 stations | | | 4V-200M-8 | 8 stations | |
| | 3V-200M-16 | 16 stations | | | 4V-200M-16 | 16 stations | |
| | 3V-200M-B | blank plate | | | 4V-200M-B | blank plate | |
| | 3V-300M-2 | 2 stations | Integrated Base for Mounting 3V300 or 3A300 series Solenoid Valves | | 4V-300M-2 | 2 stations | Integrated Base for Mounting 4V300 or 4A300 series Solenoid Valves |
| | 3V-300M-4 | 4 stations | | | 4V-300M-4 | 4 stations | |
| | 3V-300M-6 | 6 stations | | | 4V-300M-6 | 6 stations | |
| | 3V-300M-8 | 8 stations | | | 4V-300M-8 | 8 stations | |
| 3V-300M-16 | 16 stations | 4V-300M-16 | | 16 stations | | | |
| 3V-300M-B | blank plate | 4V-300M-B | | blank plate | | | |
| 3V-400M-2 | 2 stations | Integrated Base for Mounting 3V400 or 3A400 series Solenoid Valves | 4V-400M-2 | 2 stations | Integrated Base for Mounting 4V400 or 4A400 series Solenoid Valves | | |
| 3V-400M-4 | 4 stations | | 4V-400M-4 | 4 stations | | | |
| 3V-400M-6 | 6 stations | | 4V-400M-6 | 6 stations | | | |
| 3V-400M-8 | 8 stations | | 4V-400M-8 | 8 stations | | | |
| 3V-400M-16 | 16 stations | | 4V-400M-16 | 16 stations | | | |
| 3V-400M-B | blank plate | | 4V-400M-B | blank plate | | | |

* Includes mounting hardware and seals

Specifications

| Valve Type | 3V & 4V 100-400 Series Valves | 2V1, 3V1, 2V025-035 2P025-035 Series Valves | 3A & 4A 100-400 Series Valves |
|------------------------------------|--|---|-------------------------------------|
| Port & Mounting | Body Ported, Manifold Mounted | Body Ported, Stacking or Manifold Mounted | Body Ported, Manifold Mounted |
| Action & Motion | Internal Pilot, Spool Design | Direct Acting | Air Pilot, Spool Design |
| Operating Pressure | 21 to 115 PSI | Vacuum to 115 PSI | 0 to 115 PSI |
| Coil Insulation & Protection Class | F Class, IP65 (CE Certification) | F Class, IP65 (CE Certification) | N/A |
| Coil Duty Cycle | 100% ED | 100% ED | 100% ED |
| Manual Override | Non-Locking: 100 series, | Non-Locking | N/A |
| Electrical Connection | D = DIN (with LED indicator, conduit terminal) | | N/A |
| Working Medium | 40 micron filtered air or inert gas | 40 micron filtered air, inert gas & liquid | 40 micron filtered air or inert gas |
| Maximum Pressure | 180 PSI | | |
| Operating Temperature | 14 to 140 Deg. F (-10 to 60 Deg. C) | | |
| Body Material | Aluminum (Engineered Plastic for 2P Series) | | |
| Seal Material | NBR (Buna N) | | |
| Lubrication | Not Required | | |

Solenoid & Process Valves

To Order, Please Specify: 1. Model No. 2. Voltage


| | Part No. | | Port Size (NPT) | Cv | Voltage | Features | | |
|---|-------------|--|--------------------|------|---|---|---|---|
|  | 2P025-1/8 | | 1/8 | 0.23 | Voltage Options: 1 = 12 VDC 2 = 24VDC 2A=24VAC 3 = 110VAC 4 = 220VAC | 2 Way, Direct Acting, Normally Closed Operating Temp: -5 to 80 deg. C Operating Pressure: Vacuum to 115 PSI Coil: F Class, IP65, 100% ED Service: Air, Gas, Liquid Seals: NBR, (Viton Option) Body Material: 2P Series: Engineered Plastic 2S Series: 304 Stainless Steel Body 2V Series: Anodized Aluminum Body 2W Series: Brass | | |
| | 2P025-1/4 | | 1/4 | 0.23 | | | | |
|  | 2S025-1/4 | | 1/4 | 0.23 | | | | |
| | 2S040-3/8 | | 3/8 | 0.6 | | | | |
|  | 2V025-1/8 | | 1/8 | 0.23 | | | | |
| | 2V025-1/4 | | 1/4 | 0.23 | | | | |
|  | 2W025-1/4 | | 1/4 | 0.23 | | | | |
| | 2W040-3/8 | | 3/8 | 0.6 | | | | |
|  | 2W160-3/8 | | 3/8 | 4.8 | | | Voltage Options: 1 = 12 VDC 2 = 24VDC 2A=24VAC 3 = 110VAC 4 = 220VAC | 2 Way, Direct Acting/Lift, Normally Closed Operating Temp: -5 to 80 deg. C Operating Pressure: Vacuum to 115 PSI Coil: F Class, IP65, 100% ED Service: Air, Gas, Liquid Seals: NBR, (Viton Option) Body Material: Brass |
| | 2W160-1/2 | | 1/2 | 4.8 | | | | |
| | 2W200-3/4 | | 3/4 | 7.6 | | | | |
| | 2W250-1 | | 1 | 12 | | | | |
| | 2W350-1 1/4 | | 1 1/4 | 24 | | | | |
| | 2W400-1 1/2 | | 1 1/2 | 29 | | | | |
| | 2W500-2 | | 2 | 48 | | | | |
|  | 2S160-3/8 | | 3/8 | 4.8 | Voltage Options: 1 = 12 VDC 2 = 24VDC 2A=24VAC 3 = 110VAC 4 = 220VAC | 2 Way, Direct Acting/Lift, Normally Closed Operating Temp: -5 to 80 deg. C Operating Pressure: Vacuum to 115 PSI Coil: F Class, IP65, 100% ED Service: Air, Gas, Liquid Seals: NBR, (Viton Option) Body Material: 304 Stainless Steel | | |
| | 2S160-1/2 | | 1/2 | 4.8 | | | | |
| | 2S200-3/4 | | 3/4 | 7.6 | | | | |
| | 2S250-1 | | 1 | 12 | | | | |
| | 2S350-1 1/4 | | 1 1/4 | 24 | | | | |
| | 2S400-1 1/2 | | 1 1/2 | 29 | | | | |
| | 2S500-2 | | 2 | 48 | | | | |
|  | QW-1/2 | | 1/2 | 4.8 | Pilot Pressure: 80-150 PSI | 2 Way, Direct Acting, NC Operating Temp -5 to 80 deg. C Operating Pressure: 100 PSI Service: Air, Water, Oil, Gas Seals: Teflon Body Material: Brass | | |
| | QW-3/4 | | 3/4 | 7.6 | | | | |
| | QW-1 | | 1 | 12 | | | | |
| | QW-1 1/2 | | 1 1/2 | 29 | | | | |
| | QW-2 | | 2 | 48 | | | | |

Solenoid & Process Valves

To Order, Please Specify: 1. Model No. 2. Voltage

| | Part No. | | Port Size (NPT) | Cv | Voltage | Features |
|---|---------------|--|-----------------|------|---|--|
|  | 2WO 160-3/8 | | 3/8 | 4.8 | Voltage Options: 1 = 12 VDC 2 = 24VDC 2A=24VAC 3 = 110VAC 4 = 220VAC | Normally Open 2 Way, Direct Acting/Lift, Operating Temp: -5 to 80 deg. C Operating Pressure: Vacuum to 115 PSI Coil: F Class, IP65, 100% ED Service: Air, Liquid Seals: NBR (Option: Viton, EPDM) Body Material: 2S Series: 304 Stainless Steel 2W Series: Brass |
| | 2WO 160-1/2 | | 1/2 | 4.8 | | |
| | 2WO 200-3/4 | | 3/4 | 7.6 | | |
| | 2WO 250-1 | | 1 | 12 | | |
| | 2WO 350-1 1/4 | | 1 1/4 | 24 | | |
| | 2WO 400-1 1/2 | | 1 1/2 | 29 | | |
| | 2WO 500-2 | | 2 | 48 | | |
|  | 2SO 160-3/8 | | 3/8 | 4.8 | Voltage Options: 1 = 12 VDC 2 = 24VDC 2A=24VAC 3 = 110VAC 4 = 220VAC | Normally Closed, 2 Way, Direct Acting Brass Body, Seals: PTFE Operating Temp: -5 to 150 deg. C Operating Pressure: 215 PSI Coil: F Class, IP65, 100% ED Service: Air, Liquid, Steam Installation: Vertical Coil Position |
| | 2SO 160-1/2 | | 1/2 | 4.8 | | |
| | 2SO 200-3/4 | | 3/8 | 7.6 | | |
| | 2SO 250-1 | | 1 | 12 | | |
| | 2SO 350-1 1/4 | | 1 1/4 | 24 | | |
| | 2SO 400-1 1/2 | | 1 1/2 | 29 | | |
| | 2SO 500-2 | | 2 | 48 | | |
|  | 2L170-3/8 | | 3/8 | 4.8 | Voltage Options: 1 = 12 VDC 2 = 24VDC 2A=24VAC 3 = 110VAC 4 = 220VAC | Normally Closed, 2 Way, Direct Acting , Brass Body, Seals: VITON Operating Temp -5 to 150 deg. C Operating Pressure: 140 PSI Coil: F Class, IP65, 100% ED Service: Air, Water, Steam |
| | 2L170-1/2 | | 1/2 | 4.8 | | |
| | 2L170-3/4 | | 3/4 | 4.8 | | |
| | 2L200-1 | | 1 | 12 | | |
| | 2L300-1 1/4 | | 1 1/4 | 20 | | |
| | 2L300-1 1/2 | | 1 1/2 | 20 | | |
| | 2L500-2 | | 2 | 48 | | |
|  | VX2120-1/8 | | 1/8 | 0.33 | Voltage Options: 1 = 12 VDC 2 = 24VDC 2A=24VAC 3 = 110VAC 4 = 220VAC | Normally Closed, 2 Way, Direct Acting , Seals: NBR (Option: VITON) Operating Temp: -5 to 150 deg. C Operating Pressure: 150 PSI Coil: F Class, IP65, 100% ED Service: Air, Liquid Body Material: Aluminum |
| | VX2120-1/4 | | 1/4 | 0.33 | | |
| | VX2120-3/8 | | 3/8 | 4 | | |
| | VX2120-1/2 | | 1/2 | 4 | | |
|  | VXF2120-1/8 | | 1/8 | | Voltage Options: 1 = 12 VDC 2 = 24VDC 2A=24VAC 3 = 110VAC 4 = 220VAC | Normally Open 2 Way, Direct Acting, Brass Body; Seals: Viton Operating Temp -5 to 80 deg. C Operating Pressure: 100 PSI Air Pilot Pressure: 80-150 PSI Service: Air, Water, Oil, Gas |
| | VXF2120-1/4 | | 1/4 | | | |
| | VXF2120-3/8 | | 3/8 | | | |
| | VXF2120-1/2 | | 1/2 | | | |
|  | QWO-1/2 | | 1/2 | 4.8 | Pilot Pressure: 80-150 PSI | |
| | QWO-3/4 | | 3/4 | 7.6 | | |
| | QWO-1 | | 1 | 12 | | |
| | QWO-1 1/2 | | 1 1/2 | 29 | | |
| | QWO-2 | | 2 | 48 | | |

Electrical Coil

| | Part No. | Voltage Options | Electrical Connection | Power | Specifications |
|---|----------|--|--|------------|--|
|  | 2W200C | 1 = 12 VDC 2 = 24VDC 2A=24VAC 3 = 110VAC 4 = 220VAC Insulation: F Class IP65 Duty Cycle: 100% ED | D = DIN (5/16" strain relief connector) D = DIN (with LED indicator) G = Grommet (12" Lead Wire) | 13 to 20W | For 2S/2W 025 to 250 series valves |
| | 2W350C | | | 25-65W | For 2/S2W 350-500 & 2L 170-500 series valves |
| | 2WOC | | | 40 W | For 2SO/2WO 160-500 series valves |
| | 200C | | | 3 to 6.5 W | For 2V & 2P025-035 & 2V1, 3V1 series valves |

Solenoid Valve Specifications

| Valve Type | 2P | 2S/2SO | 2W/2WO | 2L Series | VX Series 06 to 08 | VX Series 10-15 | QW |
|----------------------------------|--|---------------|--------------|--|--------------------|-----------------|--------------------|
| Operating Pressure | Vacuum to 115 PSI | | 0 to 100 PSI | 0 to 210 PSI | 0 to 145 PSI | 0 to 145 PSI | 0 to 85 PSI |
| Operating Temperature | -5 TO 80 Deg. C | | | -5 TO 150 Deg. C | -5 TO 150 Deg. C | -5 TO 80 Deg. C | -5 TO 100 Deg. C |
| Body Materials | Engineered Plastic | 304 Stainless | Brass | Brass | Brass | Brass | Brass |
| Seal Materials | NBR | | | PTFE | NBR | | |
| Coil Protection Insulation Class | F Class IP65 | | | | | | Air Pilot Operated |
| Coil Duty Cycle | 100% ED | | | | | | |
| Electrical Connections | DIN (with 3/8" Strain Relief Connection) | | | | Two 12" Lead Wires | | N/A |
| Service | Air, Liquid | | | Air, Liquid, Steam Installation -Vertical | | Air, Liquid | Air, Liquid, Gas |

Ball Valves

| | | | | | | | | |
|---|---|---|---|--|---|---------------------|------------------------------|------------|
|  |  |  |  |  |  | | | |
| Reduced Port Ball Valves | Full Port Ball Valves | Full Port Ball Valves | Full Port Ball Valves | Full Port Butterfly Valves | Needle Valves | | | |
| Model | V1 | V2 | V3 | V3C | VBS01 | VN01 | | |
| Material | 316 SS | 316 SS | 316 SS | 316 SS | 316 SS | 316 Stainless Steel | | |
| Port | FNPT | FNPT | FNPT | Clamp | Clamp | NPT Female | | |
| Size 1/4" | V1-1/4 | V2-1/4 | V3-1/4 | | | VN01-1/4 | | |
| 3/8" | V1-3/8 | V2-3/8 | V3-3/8 | | | VN01-3/8 | | |
| 1/2" | V1-1/2 | V2-1/2 | V3-1/2 | | | VN01-1/2 | | |
| 3/4" | V1-3/4 | V2-3/4 | V3-3/4 | | | VN01-3/4 | | |
| 1" | V1-1 | V2-1 | V3-1 | V3C-1 | VBS01- 1 | VN01-1 | | |
| 1 1/4" | V1-1 1/4 | V2-1 1/4 | V3-1 1/4 | | | | | |
| 1 1/2" | V1-1 1/2 | V2-1 1/2 | V3-1 1/2 | V3C-1 1/2 | VBS01- 1 1/2 | | | |
| 2" | V1-2 | V2-2 | V3-2 | V3C -2 | VBS01- 2 | | | |
| 3" | | | | V3C -3 | | | | |
|  |  |  |  | | | | | |
| Miniature Ball Valves | Miniature Ball Valves | Full Port | ROTARY PNEUMATIC VALVE ACTUATORS | | Single Acting | Double Acting | Note | |
| Model | T400 | T400FM | T101L | KT-DA | Rotation | | Suitable for Ball Valve Size | |
| Material | Chrome-Plated Brass | Chrome-Plated Brass | Brass | | Model | Bore (mm) | | 90 Degree |
| Port | F NPT | F x M NPT | F NPT | | | | 90 Degree | 180 Degree |
| Size 1/4" | T400-1/4 | T400FM-1/4 | T101L-1/4 | | 45 | | | 1" |
| 3/8" | T400-3/8 | T400FM-3/8 | T101-3/8 | | 63 | | | 1 1/2" |
| 1/2" | T400-1/2 | T400FM-1/2 | T101L-1/2 | | 83 | | | 2 1/2" |
| 3/4" | | | T101L-3/4 | | 105 | | | 3" |
| 1" | | | T101L-1 | 125 | | | 4" | |
| 1 1/2" | | | T101L-1 1/2 | | | | | |
| 2" | | | T101L-2 | | | | | |

Manual Air Valve Numbering System
























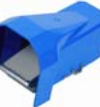
| Ordering Part No. = | 4H | 230C | | S | |
|----------------------|--------------------|--|-------------|---|------------------|
| Model | # Way & # Position | PORT SIZE (NPT) | Options | | |
| Manual Air Valves | MOV | 3 Way 2 Position | Blank = 1/8 | Blank = Plunger (Non-Detented), E = Palm Button (Detented), PPL = Push Button (Non-Detented), R = Roller Lever (Non-Detented), TB = Knob Switch (Detented), M = DETENTED S = NON-DETENTED (Spring Return) | |
| Manual Air Valves | MSV | 96322 = 3 Way 2 Position 86522 = 4 Way 2 Position | Blank = 1/4 | | |
| Hand Lever Valves | TSV | | | | |
| Hand Lever Valves | 4H | 230C = 4 Way 3 Position (Closed Center) 230E = 4 Way 3 Position (Exhaust Center) 230P = 4 Way 3 Position (Pressure Center) | | | |
| Pull/Push Valves | 3R | 210 = 3 Way 2 Position | | | |
| | 4R | 210 = 4 Way 2 Position | | | |
| Hand Handle Valves | HV | 400 = 4 Way 3 Position 410 = 4 Way 2 Position | | | |
| | FV | 220 = 2 Way 2 Position 320 = 3 Way 2 Position 420 = 4 Way 2 Position | | | |
| Foot Operated Valves | 4F | 210 = 4 Way 2 Position | | | |
| | | | | | Blank = Detented |
| | | | | Blank = Non-Detented | |
| | | | | Blank = Non-Detented, L = Detented (with lock), G = Guard | |

Air Valve Specifications

| Specifications | | | | | | | | |
|-----------------------|-------------------------------------|-------------|--------------|--------------|-------------|-------------|-------------|-------------|
| Model | MSV Series | MOV Series | TSV Series | 4H Series | 3-4R Series | HV Series | 4F Series | FV Series |
| Description | Hand Valves | Hand Valves | Lever Valves | Lever Valves | Pull/Push | Hand Valves | Foot Valves | Foot Valves |
| Cv | 0.89 | 0.67 | 1.0 | 0.89 | 0.89 | 1.68 | | |
| Operating Pressure | 0 to 115 PSI | | | | | | | |
| Operating Temperature | 23 to 140 Deg. F (-5 to 60 Deg. C) | | | | | | | |
| Action | Direct Acting | | | | | | | |
| Working Medium | 40 micron filtered air or inert gas | | | | | | | |
| Body Material | Aluminum | | | | | | | |
| Seal Material | NBR | | | | | | | |
| Lubrication | Not Required | | | | | | | |

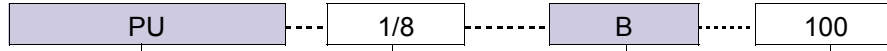
| Specifications | | | |
|-----------------------|-------------------------------------|----------------------|----------------|
| Model | ASC Series | QE Series | ST Series |
| Description | Flow Control Valves | Quick Exhaust Valves | Shuttle Valves |
| Operating Pressure | 0 to 140 PSI | | |
| Operating Temperature | 32 to 140 Deg. F (0 to 60 Deg. C) | | |
| Working Medium | 40 micron filtered air or inert gas | | |
| Body Material | Aluminum | | |
| Seal Material | NBR | | |
| Lubrication | Not Required | | |

Manual Air Valves

| | | | | | | | | |
|--|---|---|---|---|--|---|---|---|
| 1/4" NPT 4 Way 5 Port 2 Position Air Valves |  |  |  |  |  |  |  |  |
| Model | MSV86522TB | MSV86522EB | MSV86522PB | MSV86522PP | MSV86522R | MSV86522 | TSV86522 | 4R210 |
| Description | Two Position Detented Switch Cv 0.89 | Emergency Stop Detented Cv 0.89 | Palm Button Momentary Cv 0.89 | Push Button Momentary Cv 0.89 | Roller Lever Cv 0.89 | Pin Plunger Cv 0.89 | Lever Detented Cv 1.0 | Pull/Push Detented Cv 0.89 |
| 1/4" NPT 3 Way 3 Port 2 Position Air Valves |  |  |  |  |  |  |  |  |
| Model | MSV98322TB | MSV98322EB | MSV98322PB | MSV98322PP | MSV98322R | MSV98322 | TSV98322-M | 3R210 |
| Description | Two Position Switch Cv 0.89 | Emergency Stop Detented Cv 0.89 | Palm Button Momentary Cv 0.89 | Push Button Momentary Cv 0.89 | Roller Lever Momentary Cv 0.89 | Pin Plunger Momentary Cv 0.89 | Lever Detented Cv 1.0 | Pull/Push Detented Cv 0.89 |
| 1/8" NPT 3 Way 2 Port 2 Position Air Valves |  |  |  |  | 1/4" NPT Mechanical Air Valves |  |  |  |
| Model | MOV-01 | MOV-03 | MOV-03A | MOV-02 | Model | QE | ASC | 4R210-S |
| Description | Two Position Switch Cv 0.67 | Emergency Stop Detented Cv 0.67 | Push Button Momentary Cv 0.67 | Roller Lever Momentary Cv 0.67 | Description | Quick Exhaust Valve | In-line Flow Control Valve | 4 Way 2 Position Momentary Cv 0.89 |
| 1/4" NPT Air Valves |  |  |  |  |  |  |  |  |
| Model | HV410 | HV400 | 4H230C-S | FV320 | FV420 | 4F210 | 4F210L | 4F210G |
| Description | 2 Position 4 Way Valve Cv 1.68 | 3 Position 4 Way Valve Closed Center Cv 1.68 | 3 Position 4 Way Closed Center Momentary | 3 Way Momentary Foot Valve | 4 Way Momentary Foot Valve | 4 Way Momentary Foot Valve | 4 Way Detented Foot Valve | 4 Way Shielded Momentary Foot Valve |

Polyurethane Tubing Numbering System

Ordering Part No. =
(eg. PU 1/8 B 100)



| Tubing Type | (inch) | (mm) | Color | Length |
|--------------------------|--------|------|-----------------|--------------|
| PU = Polyurethane Tubing | 1/8 | 4 | B = Blue | 100 = 100 ft |
| | 5/32 | 6 | BK = Black | 500 = 500 ft |
| | 1/4 | 8 | G = Green | |
| | 5/16 | 10 | O = Orange | |
| | 3/8 | 12 | R = Red | |
| | 1/2 | | T = Transparent | |
| | | | Y = Yellow | |



STC Polyurethane Tubing

| | |
|-------------|---|
| Tubing Size | 1/8", 5/32", 1/4", 5/16", 3/8", 1/2"; 4 mm, 6 mm, 8 mm, 10 mm, 12 mm |
| Length | 100 ft or 500 ft (roll in a spool) |
| Color | Black Blue Clear Green Orange Red Yellow |

| Tubing Size | | Part No. | | | | | | | | | |
|-------------|--------|-----------------------------|---------------|--|----------------|---------------|---------------|---------------|---------------|---------------|--|
| OD | ID | Max Pressure PSI @ 75° F | Transparent | | Black | Blue | Green | Orange | Red | Yellow | |
| 1/8" | 0.078" | 200 | PU 1/8 T-100 | | PU 1/8 BK-100 | PU 1/8 B-100 | PU 1/8 G-100 | PU 1/8 O-100 | PU 1/8 R-100 | PU 1/8 Y-100 | |
| 5/32" | 0.098" | 200 | PU 5/32 T-100 | | PU 5/32 BK-100 | PU 5/32 B-100 | PU 5/32 G-100 | PU 5/32 O-100 | PU 5/32 R-100 | PU 5/32 Y-100 | |
| 1/4" | 0.16" | 180 | PU 1/4 T-100 | | PU 1/4 BK-100 | PU 1/4 B-100 | PU 1/4 G-100 | PU 1/4 O-100 | PU 1/4 R-100 | PU 1/4 Y-100 | |
| 5/16" | 0.20" | 180 | PU 5/16 T-100 | | PU 5/16 BK-100 | PU 5/16 B-100 | PU 5/16 G-100 | PU 5/16 O-100 | PU 5/16 R-100 | PU 5/16 Y-100 | |
| 3/8" | 0.26" | 150 | PU 3/8 T-100 | | PU 3/8 BK-100 | PU 3/8 B-100 | PU 3/8 G-100 | PU 3/8 O-100 | PU 3/8 R-100 | PU 3/8 Y-100 | |
| 1/2" | 3/8" | 150 | PU 1/2 T-100 | | PU 1/2 BK-100 | PU 1/2 B-100 | PU 1/2 G-100 | PU 1/2 O-100 | PU 1/2 R-100 | PU 1/2 Y-100 | |
| 4 mm | 2 mm | 200 | PU 4 T-100 | | PU 4 BK-100 | PU 4 B-100 | PU 4 G-100 | PU 4 O-100 | PU 4 R-100 | PU 4 Y-100 | |
| 6 mm | 4 mm | 180 | PU 6 T-100 | | PU 6 BK-100 | PU 6 B-100 | PU 6 G-100 | PU 6 O-100 | PU 6 R-100 | PU 6 Y-100 | |
| 8 mm | 5 mm | 180 | PU 8 T-100 | | PU 8 BK-100 | PU 8 B-100 | PU 8 G-100 | PU 8 O-100 | PU 8 R-100 | PU 8 Y-100 | |
| 10 mm | 6.5 mm | 150 | PU 10 T-100 | | PU 10 BK-100 | PU 10 B-100 | PU 10 G-100 | PU 10 O-100 | PU 10 R-100 | PU 10 Y-100 | |
| 12 mm | 8 mm | 150 | PU 12 T-100 | | PU 12 BK-100 | PU 12 B-100 | PU 12 G-100 | PU 12 O-100 | PU 12 R-100 | PU 12 Y-100 | |

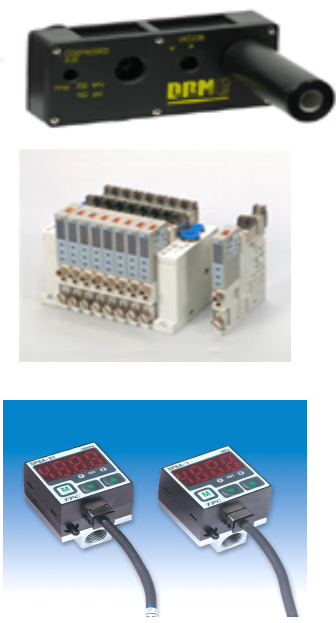
| | | | | | | | | | | | |
|-------|--------|-----|---------------|--------------------------------|----------------|---------------|---------------|---------------|---------------|---------------|--|
| 1/8" | 0.078" | 200 | PU 1/8 T-500 | | PU 1/8 BK-500 | PU 1/8 B-500 | PU 1/8 G-500 | PU 1/8 O-500 | PU 1/8 R-500 | PU 1/8 Y-500 | |
| 5/32" | 0.098" | 200 | PU 5/32 T-500 | | PU 5/32 BK-500 | PU 5/32 B-500 | PU 5/32 G-500 | PU 5/32 O-500 | PU 5/32 R-500 | PU 5/32 Y-500 | |
| 1/4" | 0.16" | 180 | PU 1/4 T-500 | | PU 1/4 BK-500 | PU 1/4 B-500 | PU 1/4 G-500 | PU 1/4 O-500 | PU 1/4 R-500 | PU 1/4 Y-500 | |
| 5/16" | 0.20" | 180 | PU 5/16 T-500 | | PU 5/16 BK-500 | PU 5/16 B-500 | PU 5/16 G-500 | PU 5/16 O-500 | PU 5/16 R-500 | PU 5/16 Y-500 | |
| 3/8" | 0.26" | 150 | PU 3/8 T-500 | | PU 3/8 BK-500 | PU 3/8 B-500 | PU 3/8 G-500 | PU 3/8 O-500 | PU 3/8 R-500 | PU 3/8 Y-500 | |
| 1/2" | 3/8" | 150 | PU 1/2 T-500 | | PU 1/2 BK-500 | PU 1/2 B-500 | PU 1/2 G-500 | PU 1/2 O-500 | PU 1/2 R-500 | PU 1/2 Y-500 | |
| 5/32" | 2 mm | 200 | PU 4 T-500 | | PU 4 BK-500 | PU 4 B-500 | PU 4 G-500 | PU 4 O-500 | PU 4 R-500 | PU 4 Y-500 | |
| 6 mm | 4 mm | 180 | PU 6 T-500 | | PU 6 BK-500 | PU 6 B-500 | PU 6 G-500 | PU 6 O-500 | PU 6 R-500 | PU 6 Y-500 | |
| 8 mm | 5 mm | 180 | PU 8 T-500 | | PU 8 BK-500 | PU 8 B-500 | PU 8 G-500 | PU 8 O-500 | PU 8 R-500 | PU 8 Y-500 | |
| 10 mm | 6.5 mm | 150 | PU 10 T-500 | | PU 10 BK-500 | PU 10 B-500 | PU 10 G-500 | PU 10 O-500 | PU 10 R-500 | PU 10 Y-500 | |
| 12 mm | 8 mm | 150 | PU 12 T-500 | | PU 12 BK-500 | PU 12 B-500 | PU 12 G-500 | PU 12 O-500 | PU 12 R-500 | PU 12 Y-500 | |
| 1/4" | 0.16" | 180 | PUC 1/4 B-10 | 10 ft Polyurethane Tubing Coil | | | | | | | |
| 3/8" | 0.26" | 150 | PUC 3/8 B-10 | 10 ft Polyurethane Tubing Coil | | | | | | | |

Specifications

| | |
|----------------|-------------------------------|
| Temperature | -40 to 176° F, (-40 to 80° C) |
| Durometer | Shore A: 95 |
| Size Tolerance | +/- 0.004" (+/- 0.1 mm) |

Other Products of Interest

Vacuum Automation



Pneumatic Actuators



Accessories



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