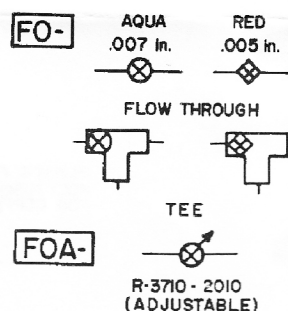


## R-3710 Series Restrictors

The R-3710 Series Restrictors are available with fixed and variable sized orifices and various styles for convenience of installation. The fixed restrictors come in two sizes and are color coded for easy identification. A restrictor with a .005 in. (.13 mm) orifice is red and a restrictor with a .007 in. (.18 mm) orifice is aqua. The size and type of restrictor to be installed in a system must be selected with discretion in order to insure proper balance and operation of the devices within the system.

### Application and Drawing Identification



### Specifications

Description	R-3710 -Suffix	Size	Material	Maximum Pressure	Maximum Temperature	Output Flow Capacity @ 20 PSIG (140 kPa)
T-coupling, inline, with barbed fittings for 1/4 O.D. polytubing (see Fig. 1).	-3005	Red, .005 in. Orifice 1/4 in. x 1/4 in. x 1/4 in.	Thermoplastic	25 PSIG (175 kPa)	180°F (82°C)	25 SCIM (6.8 mL/s)
	-3007	Aqua, .007 in. Orifice 1/4 in. x 1/4 in. x 1/4 in.				45 SCIM (12.3 mL/s)
	-3205	Red, .005 in. Orifice 1/4 in. x 5/32 in. x 5/32 in.				25 SCIM (6.8 mL/s)
	-3207	Aqua, .007 in. Orifice 1/4 in. x 5/32 in. x 5/32 in.				45 SCIM (12.3 mL/s)
T-fitting with barbs for 1/4 in. O.D. polytubing and 1/8 in. NPT for screwing directly into actuator or controller (see Fig. 2).	-3105	Red, .005 in. Orifice 1/4 in. x 1/4 in. x 1/8 in. NPT	Thermoplastic	25 PSIG (175 kPa)	180°F (82°C)	25 SCIM (6.8 mL/s)
	-3107	Aqua, .007 in. Orifice 1/4 in. x 1/4 in. x 1/8 in. NPT				45 SCIM (12.3 mL/s)
Straight coupling, inline, with barbed fittings for 1/4 in. O.D. polytubing (see Fig. 3).	-2005	Red, .005 in. Orifice 1/4 in. x 1/4 in.	Thermoplastic	25 PSIG (175 kPa)	180°F (82°C)	25 SCIM (6.8 mL/s)
	-2007	Aqua, .007 in. Orifice 1/4 in. x 1/4 in.				45 SCIM (12.3 mL/s)
Restrictor for inserting 1/4 in. O.D. polyethylene or copper tubing; to be used in conjunction with various compression fittings, either inline or at the controller (see Fig. 4).	-1005	Red, .005 in. Orifice	Elastomeric O-ring, Zinc Plated Compression Nut, (Identifies Restrictor Location), and Thermoplastic Ferrule	25 PSIG (175 kPa)	180°F (82°C)	25 SCIM (6.8 mL/s)
	-1007	Aqua, .007 in. Orifice				45 SCIM (12.3 mL/s)
Inline adjustable restrictor, pin valve type*. Test gage plugs are available on high and low side of restrictor (see Fig. 5).	-2010	5/32 in. Tube Connections	Brass	100 PSIG (700 kPa)	180°F (82°C)	Adjustable

\*Caution: Do not bottom out the adjustment screw; damage to the pin valve point will affect the fine setting.

The performance specifications are nominal and conform to acceptable industry standards. For application at conditions beyond these specifications, consult the local Johnson Controls office. Johnson Controls, Inc. shall not be liable for damages resulting from misapplication or misuse of its products.