

Fisher™ D2T and D2 Angle

Control Valves



The Fisher D2T and D2 Angle control valves are compact, rugged valves designed for on/off service. These valves are ideal for use as a dump valve on gas separators and scrubbers. These valves are well suited for other high pressure applications in natural gas production, compression and processing. These valves have threaded NPT end connections and are available in an NPS 1 globe style or angle style valve body configuration.

Features

- **Field-Selectable Flow Rates**—The FloPro feature allows easy setting of 0.25, 0.375 and 0.5 in. port equivalent flow rates, eliminating the need for more than one port size. See Figure 4.
- **Trim Options** — The valve plug and seat ring are available in S17400 double H1150 or solid R30006 (Alloy 6) for erosive service.
- **Quad-O compliant Packing System** — Features Fisher ENVIRO-SEAL™ packing technology to provide reduced packing maintenance and meet Low E fugitive emission requirements for Leak Detection and Repair (LDAR) programs in compliance with the Code of Federal Regulations (CFR) 40, Part 60, Subpart OOOO.
- **NACE MR0175/ISO 15156 Service-Ready** — Sour service trim is the standard construction for the D2T FloPro control valve. The materials of construction meet the metallurgical requirements of NACE MR0175/ISO 15156. Environmental limits may apply.
- **CL900 Service** — Valve assembly is designed and specified for ASME B16.34 CL900 service.
- **Low Temperature Materials** — Valve and actuator construction materials allow use in low temperature applications of -46°C / -50°F.
- **Field-Reversible Actuator** — The actuator can be converted in the field from Air-to-Open to Air-to-Close actuator action. (Conversion to Air-to-Close actuator action requires removing four springs from the actuator casing configuration.) (Conversion to Air-to-Open actuator action requires adding four springs to the actuator casing configuration.)
- **Easy Installation** — Compact design allows installation where space is at a premium.
- **Easy Maintenance** — Screwed bonnet/body joint allows repair or maintenance with a minimum of tools and without removing the valve body from the piping system.

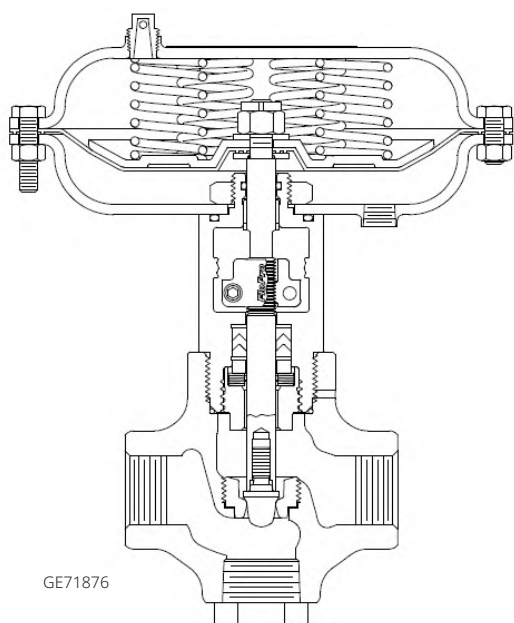
Figure 1. Fisher D2T and D2 Angle Control Valves



Table 1. Specifications

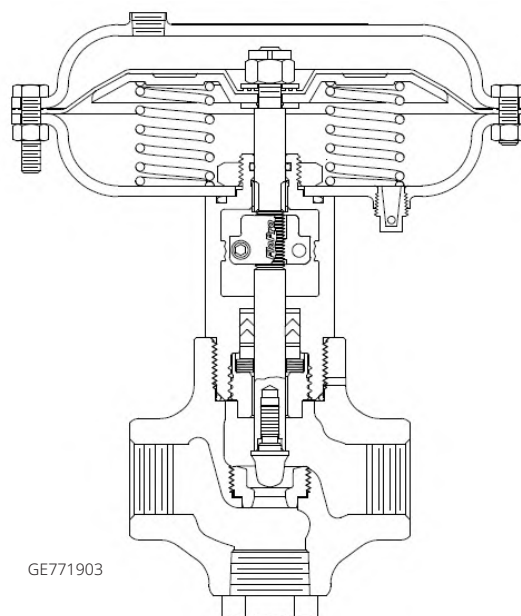
Valve Assembly Pressure Class ⁽¹⁾	Valve Travel Indications
ASME B16.34 CL900	See Figure 4
Temperature Range ⁽¹⁾	Approximate Weight
155 bar from -46 to +93°C and 150 bar at 149°C / 2250 psig from -50 to +200°F and 2185 psig at 300°F	7.7 kg / 17 lb
Maximum Allowable Pressure Drop ⁽¹⁾	Dimensions
Flow Down⁽²⁾ Maximum Inlet Pressure: 155 bar / 2250 psig Maximum Outlet Pressure: 103 bar / 1500 psig Flow Up Maximum Inlet Pressure: 103 bar / 1500 psig Maximum Outlet Pressure: 103 bar / 1500 psig	See Figure 5 and 6
Shutoff Classification	Material Temperature Capabilities
Class IV ANSI/FCI 70-2 and IEC 60534-4	Valve Body Assembly: -46 to +149°C / -50 to +300°F Actuator Assembly: -46 to +93°C / -50 to +200°F
Construction Materials	Bonnet/Body Connection
Valve Body and Bonnet: ASME SA 352 LCC Valve Plug and Seat: ■ R30006 (Alloy 6) or ■ S17400 double H1150 Valve Stem: S31600 O-rings: HNBR (Hydrogenated Nitrile) Packing: PTFE/Carbon PTFE Packing Springs: N07718 Stem Bushing: PPS (Polyphenylene sulfide) Actuator Diaphragm: Nitrile/Polyester Actuator Springs: Zinc-plated steel	Screwed with leakoff bleed
End Connections	Standard Actuator Configuration
1 in. FNPT inlet and outlet connections D2 Angle has 2 in. NPT vessel connection. See Figure 5 and 6	The actuator is an on/off spring-and-diaphragm. Globe Valve Body: Supplied as either Air-to-Open or Air-to-Close
Flow Characteristic	Maximum Actuator Casing Pressure
FloPro Characterized	2.8 bar / 40 psig
Flow Coefficients	Minimum Required Actuator Casing Pressure
See Figure 2	2.1 to 2.4 bar / 30 to 35 psig
Port Diameter	Actuator Diaphragm Effective Area
13 mm / 0.5 in.	194 cm ² / 30 in ²
Maximum Travel	Actuator Pressure Connections
13 mm / 0.5 in.	1/4 NPT internal; see Figure 3 for locations
1. The pressure or temperature limits in the referenced tables and any applicable ASME code limitations should not be exceeded. 2. Standard flow direction.	

Figure 2. Fisher D2T FloPro Constructions



GE71876

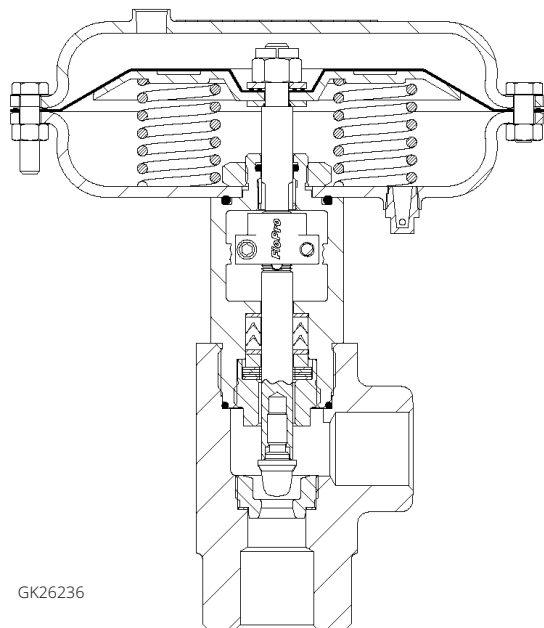
AIR-TO-OPEN



GE771903

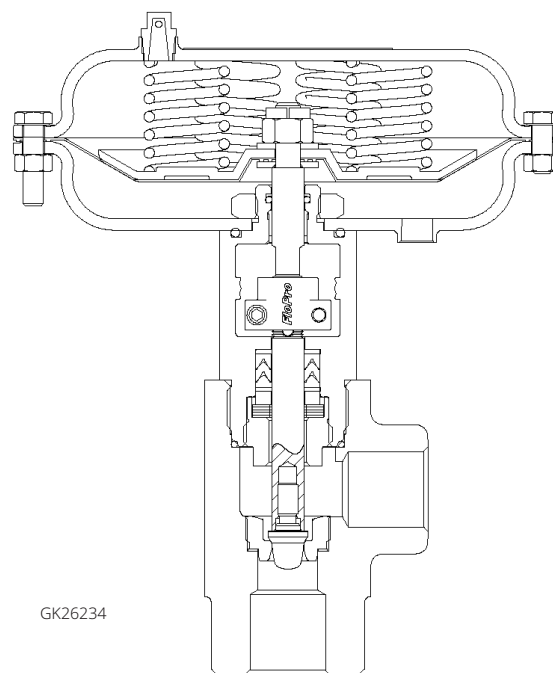
AIR-TO-CLOSE

Figure 3. Fisher D2T Angle Constructions



GK26236

AIR-TO-OPEN



GK26234

AIR-TO-CLOSE

Figure 4. Flow Rate Adjustments

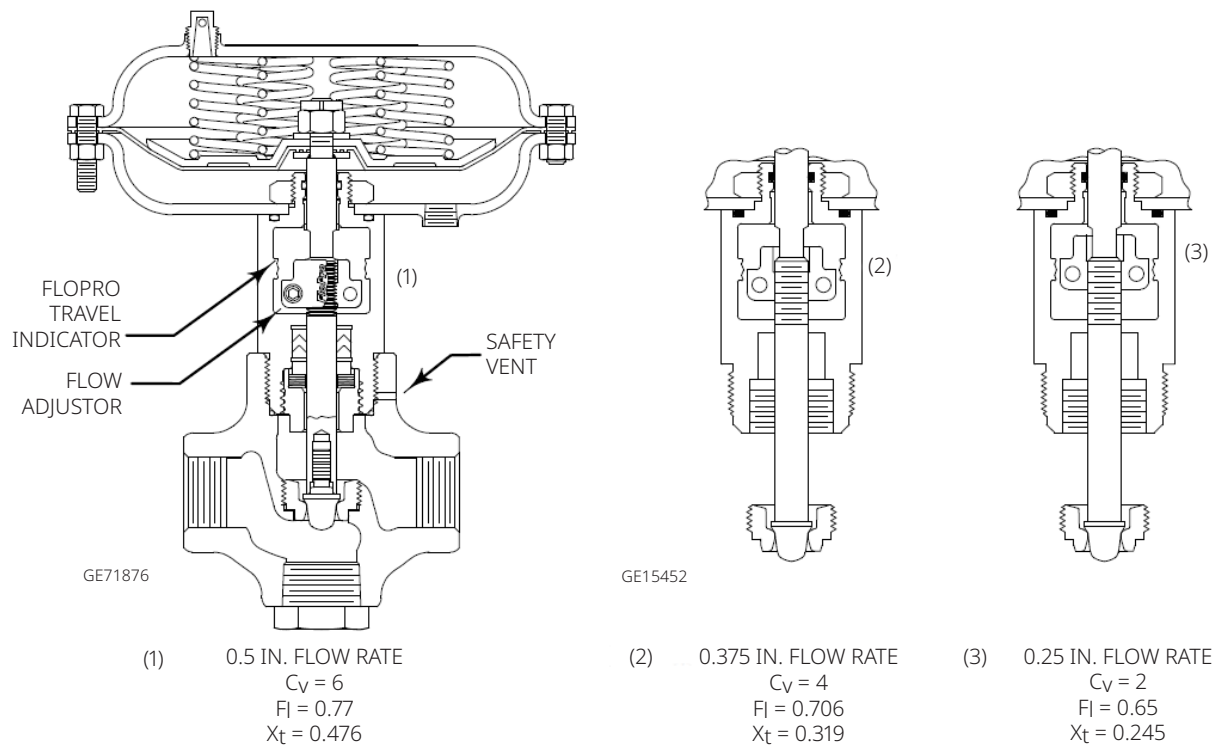
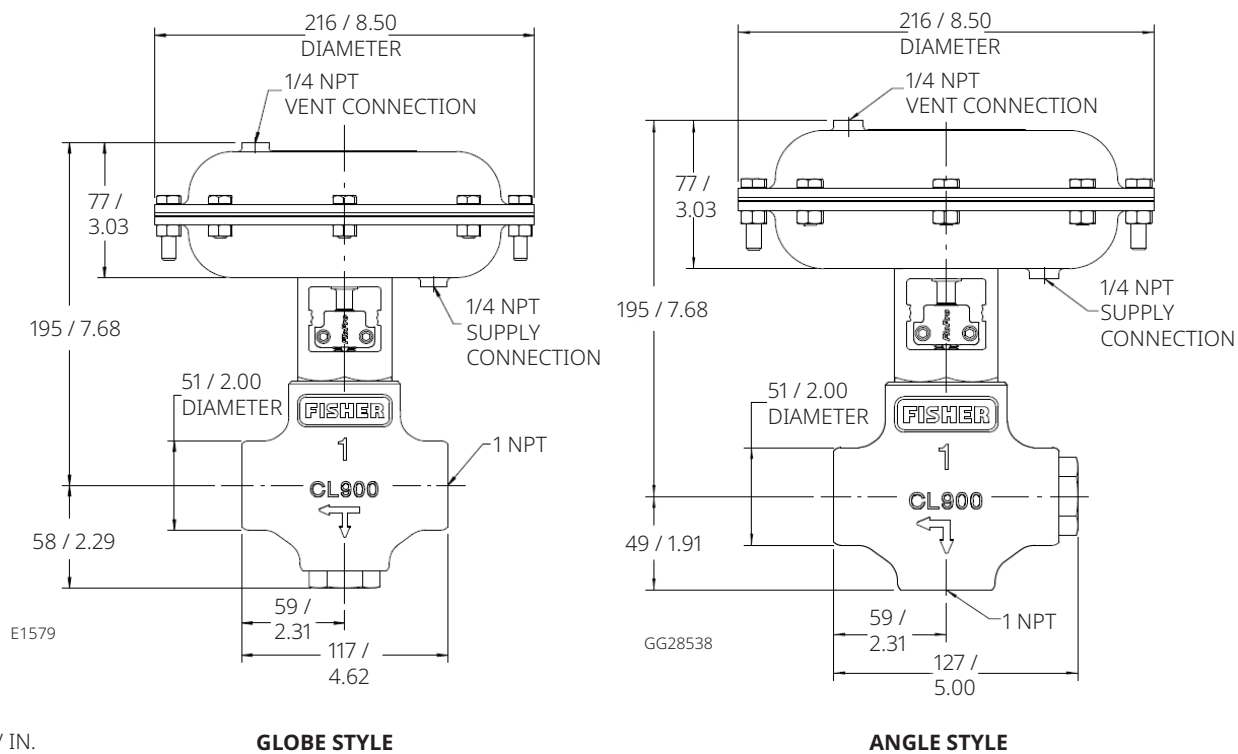


Figure 5. Fisher D2T Valve Dimensions (Air-to-Open Configuration Shown)

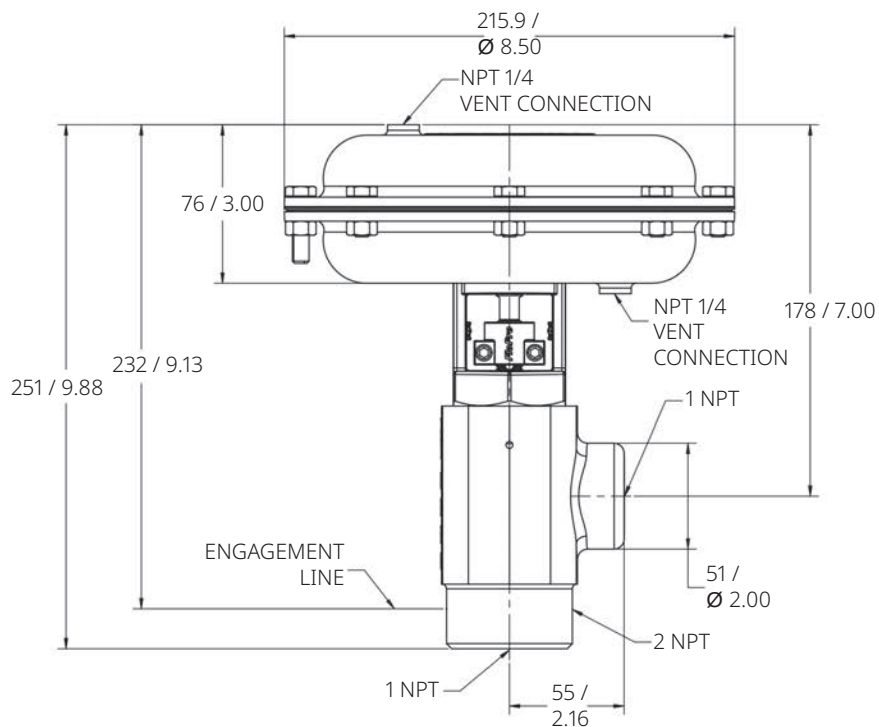


MM / IN.

GLOBE STYLE

ANGLE STYLE

Figure 6. Fisher D2 Angle Valve Dimensions (Air-to-Open Configuration Shown)



MM / IN.

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