
Flowrite™ 599 Series Specifications

Control Valves

- Stroke control valves, line sizes 1/2" to 6"
- 2-way Normally Open (NO) and Normally Closed (NC), and 3-way Mixing applications
- Suitable for chilled water (20°F), hot water (250°F), and steam (100 psi) applications
- Flow rates (Cv's) follow logical, geometric progression, per ANSI/ISA -S75.02
- Quiet modulating operation to 50 psi (stainless trim) or 25 psi (bronze trim)
- Serviceable packing and trim
- Actuator-to-valve mechanical interface according to Siemens Building Technologies internal standard - "Direct Coupled"

National and International Standards Conformance

- 1/2" to 2" Threaded Valves
 - ANSI Pressure Class 250 Bronze (UNS CA84400) according to ANSI B16.15
 - Threaded end connections according to ANSI/ASME B1.20.1
- 2-1/2" to 6" Flanged Valves
 - ANSI Pressure Class 125 and 250 Cast Iron (ASTM A126B) body construction according to ANSI B16.1
 - Flanged end connections according to ANSI B16.1
 - Flange to flange dimensions according to ANSI/ISA S75.03
- Leakage class IV according to ANSI/FCI 70.2
- Equal percentage flow characteristic according to ISA S75.11-1991 (VDI/VDE 3758)
- Rangeability > 100:1 according to ANSI/ISA-S75.11
- Linear flow characteristic according to ISA S75.11 (VDI/VDE 3578)
- Bronze trim (UNS C84400)
- Stainless trim (UNS S30300, ASTM A582 Type 303)

Pneumatic Actuators

- Actuator-to-valve mechanical interface according to Siemens Building Technologies internal standard - "Direct Coupled"
- 11 sq. in., 30 sq. in. and 90 sq. in. effective diaphragm area models available - up to 2000 lbs. thrust
- 100:1 Position Resolution, with <2% hysteresis
- Selectable spring range, 5 psi span
- Visual position indication
- Serviceable diaphragm
- Positive positioner easily mounted
- "Corporate look"

Electronic Actuators

- Actuator-to-valve mechanical interface according to Siemens Building Technologies internal standard - "Direct Coupled"
- High force - up to 1000 lbs. Thrust
- Spring return fail-safe operation
- Manual override
- 100:1 Position Resolution, with <2% hysteresis
- Visual and electronic position indication
- Nearly 2 million E/H installations worldwide since 1975
- UL 873 listed (cUL)



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