

DESCRIPTION

The KVS and KV Series target flow meters are highly durable and reliable flow meters for steam, liquids, and gases. With no moving parts, they measure flow with a strain gauge bridge circuit (outside the fluid) on a shaft attached to a stainless steel target in the pipe. The signal from the strain gauge circuit is converted to an analog signal by a transmitter mounted in an integral explosion proof housing (standard).

FEATURES

- Hermetically sealed, bonded strain gage technology
- · No moving parts for long life and high durability
- · Integral linear analog transmitter
- NEMA 4X housing standard



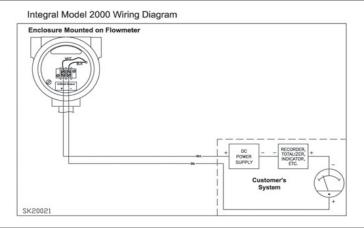
SPECIFICATIONS 12-42 VDC ANSI flanges standard, other options **Supply Voltage** Mounting **Maximum Output** available **Impedance** RL = (Vsupply - 12) * 43.33**Media Compatibility** Liquid, gas or steam 2-wire, 4-20 mA, linear to flow **Output Signal Media Temperature** -65° to 425°F (-54° to 218°C), other Wiring Terminations Screw terminals inside housing Range **Conduit Connection** 3/4" FNPT ranges special order Configuration Factory pre-configuration required **Maximum Pressure** >1000 psi (69 bar) for primary to assure application/product match: sensing elements; piping connections specify pipe size and material/ per applicable ANSI specs schedule, fluid/gas type, operating Materials of pressure and temperatures, and Construction Wetted parts: 304 and 316 stainless minimum/maximum flow rates steel (or cast equivalent), Teflon® **Accuracy** ± .05% for pipe sizes up to 8", 1% to seals; 2% for pipe sizes over 8" Electronics housing: Polyester coated Aluminum Repeatability ± 0.15% of flow rate **Response Time** .002 to 0.1 seconds **Enclosure Rating** NEMA 4X Height 10.8" (27.3 cm) from Display 2-line alphanumeric with bar graph **Dimensions** Operating Temperature -4° to 170°F (-20° to 75°C) mounting flange to top of transmitter; Flow Range 19.6 gpm (4" pipe) to 98,000 gpm insertion length depends on pipe size (60" pipe) specified, target locates in center of **Velocity Range** Liquid flow: 1.5 fps (0.5 mps) pipe minimum, 32 fps (9 mps) maximum Weight 9 lb (4.1 kg) maximum Warranty Pipe Size Range 4" to 60" (100 to 1500 cm) 2 years Installation Install in straight pipe section with

a minimum distance of 10 pipe diameters upstream and 5 pipe diameters downstream to any bend,

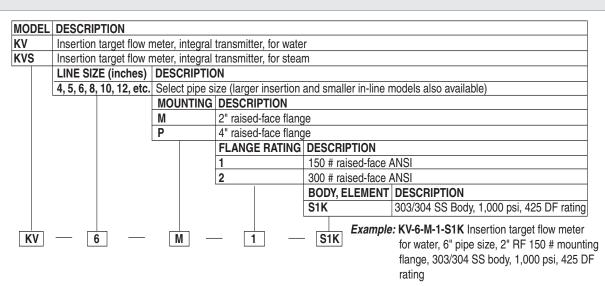
obstruction or transition



WIRING



ORDERING INFORMATION



NOTES: The following information is required. Each flow meter is factory-configured for a specific application.

- 1) Type of fluid or gas
- 2) Operation pressure and temperature
- 3) Maximum flow rate (gpm, lb/hr, scfm, etc.)
- 4) Transmitter output required (4-20 mA, pulse, mass flow, batch relay control, etc.)
- 5) Constant or varying pressure

Smaller pipe size inline target flow meters (1/2" - 3") also available. Remote transmitters, retractable type flow meters, and many other options also available. Consult Kele.

	ACCESSORIES	PAGE
DCP-1.5-W	Power supply, 24 VAC IN to 24 VDC OUT	837