

AVID FIGURE 793 AVID® EAZICAL POSITIONER

A comprehensive range of analogue positioners offering ease of calibration, performance verification and intelligent communications.



FEATURES

- Corrosion resistant engineered resin enclosure. Certified to IP66 for general purpose applications.
- High volume manifold options available for larger actuators with swept volumes greater than 3.7 litres.
- HiVue® local visual display.
- An impact and corrosion resistant valve position indicator capable of displaying exact valve position from any quadrant at distances of up to 50 metres.
- EasiFix® switch adjustment.
- When adding position sensors, self-locking cams are securely fastened to a splined shaft and can be quickly and accurately adjusted in seconds.
- All AVID® positioners are directly mounted to Keystone actuators by a low-profile mounting assembly.
- The EaziCal positioner is automatically calibrated quickly with a simple push button sequence. The entire procedure is completed within a few minutes.

GENERAL APPLICATION

The AVID® range of analogue and intelligent positioners offers a range of options for actuator calibration, position feedback, performance verification and control valve status intelligence.

TECHNICAL DATA

Input current:	4 to 20mA
Air pressure:	Up to 827kPa
Temperature:	Minus 40°C to 85°C






OPERATING SPECIFICATIONS

Input current	4-20mA (analogue)
Voltage drop	9 volts
Supply air pressure	275 to 827 kPa
Resolution	0.5% of span
Linearity	±1% of span
Hysteresis	0.4% of span
Repeatability	0.4% of span
Thermal coefficient	3%/100°C
Output flow rates	Std manifold = 7.6 L/s @ 620 kPa High vol = 19.8 L/s @ 620 kPa
Air consumption	Std manifold = 0.0037 L/s @ 620 kPa High vol = 0.0056 L/s @ 620 kPa
Operating temp. range	-40 to 85°C
Gain	Electronically adjustable
Air connection ports	Std manifold = 1/4" BSP / High vol manifold = 3/8" BSP
Calibration method	Automatic with local push button sequence

MATERIALS OF CONSTRUCTION

Housing	Engineered resin
Cover	Clear polycarbonate
Manifold	Hard anodised aluminium
Conduit entry	M20
Shaft	Stainless steel
Hardware	Stainless steel
HiVue	Copolyester
ModMount	Nylon

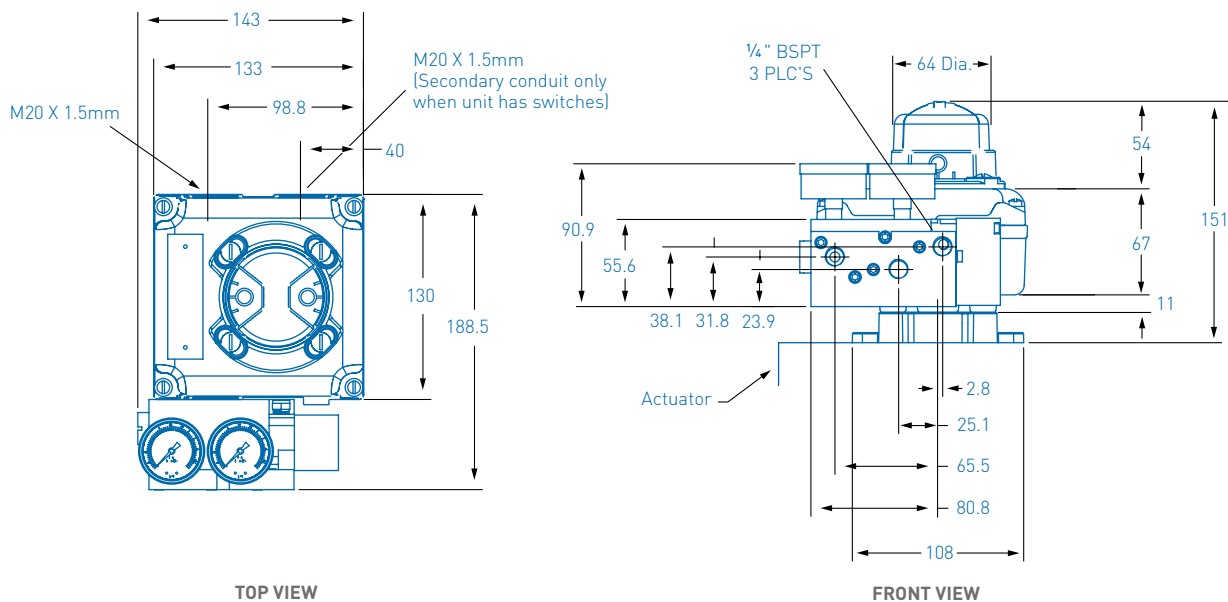
AREA CLASSIFICATIONS & APPROVALS

Weatherproof IP66

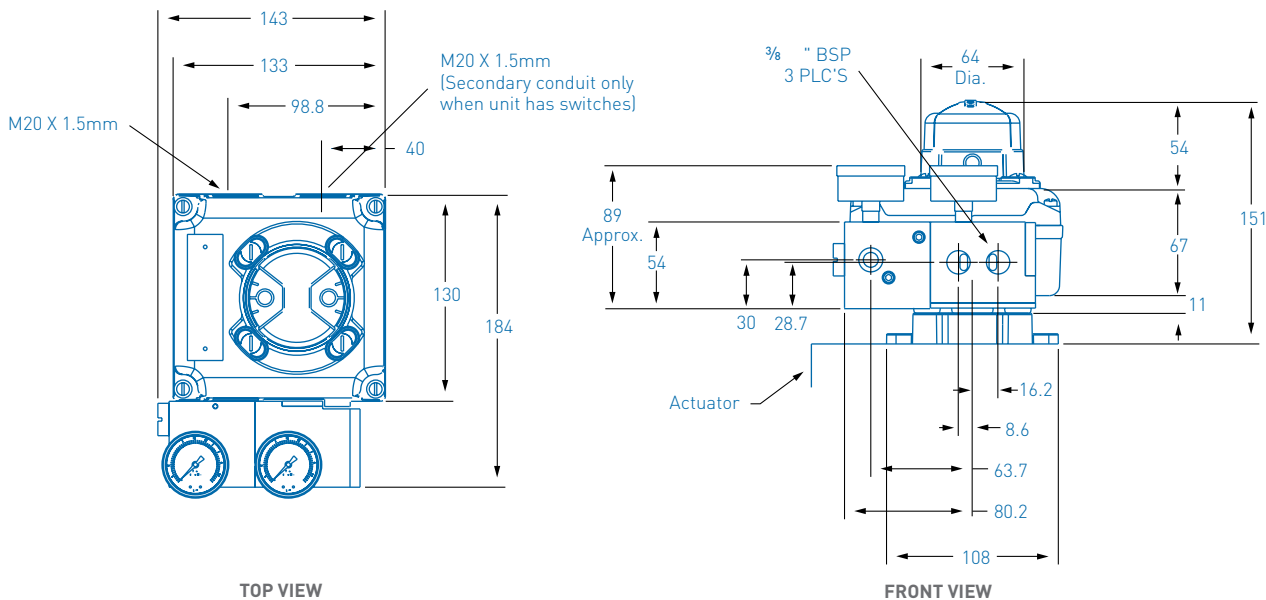
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DIMENSIONS (MM)

NOTE: Standard model illustrated



NOTE: High flow model illustrated



OPTIONAL POSITION SENSORS

Micro-Switch V3 (mechanical)	
Electrical version	SPDT
Electrical rating	15 amps/125/250 VAC 6 amps/24 VDC 0.5 amps/125 VDC 0.25 amps/250 VDC 5 amps/125 VAC 'L'

NOTE:

Proximity type solid state sensors
 Proximity type inductive sensors are available in 2 and 3-wire DC (5-36 VDC) PNP/NPN (NO/NC) or 2-wire AC/DC (20-140 AC/10-140 DC) configurations.
 Sensors are available in flush mount rectangular configurations.
 4-20mA position transmitter available.

TYPICAL SPECIFYING SEQUENCE

Description	Part No.	Comments
Avid ECAL STD AL MAN	2037161	Eazical with aluminium manifold.
Avid ECAL STD AL MAN V3	2021653	Eazical with aluminium manifold and two limit switches.
Avid ECAL STD AL 4-20 RTM	2033965	Eazical with aluminium manifold and 4-20mA transmitter
Avid ECAL HVOL AL MAN	2025504	Eazical with high volume aluminium manifold
Avid ECAL HVOL AL MAN V3	2005568	Eazical with high volume aluminium manifold & two limit switches
Avid ECAL HVOL AL MAN RTM	2020032	Eazical with high volume manifold & 4-20mA transmitter

SPECIAL NOTE:

Eazical standard flow design is suitable for actuator swept volumes of a minimum 0.98 litres to a maximum of 3.70 litres for proper auto calibration functionality.

Eazical optional high flow design is suitable for actuator swept volumes of a minimum 3.3 litres to a maximum of 9.80 litres for proper auto calibration functionality.

NOTE:

It should also be noted that this is to be used as a general guideline only.

The actuator/valve package dynamics would dictate the success of the auto calibration routine and could be compromised by the following; instrument air supply volume capacity, actuator sizing, tubing size and actuator/valve health.



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