

Types **AQ**, **EQ**, **IQ**

IP.67

Valve Position Monitor

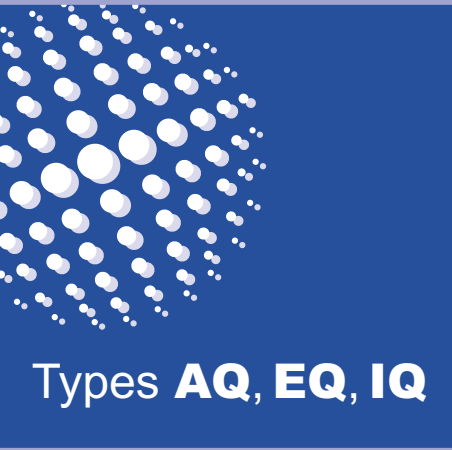


The types AQ, EQ, IQ valve position monitors offer IP67 environmental protection for non-hazardous and hazardous area monitoring applications.

Incorporating features that allow plant personnel to install, monitor and maintain the valve assembly with the minimum of fuss, the units dual function position monitoring system is available with mounting arrangements that allow compact attachment to both quarter-turn and linear process valves.

Features and Benefits

- Anodised marine grade aluminium (low copper content) black urethane coated or CF8M (316SS) stainless steel housing for superior corrosion protection.
- Versions available providing compatibility for hazardous area applications including ATEX II 2 GD / EEx d flameproof and II 2 G / EEx ia intrinsic safety.
- Screw-on rapid access cover with no cumbersome cover bolts to worry about allows for fast and simple access for installation and maintenance. Access to the inner switch chamber takes less than 15 seconds.
- High visibility position indicator offers excellent viewability without compromising accessibility or space requirements. The unique setting feature of the indicator enables adjustment to register exact valve position.
- Touch and tune quick setting cams allow fast and simple switch adjustments.
- Switch termination via. European approved terminal blocks.
- Compact design provides considerable space saving over similar equipment without compromising the ease of installation or maintenance.
- Simple mounting arrangements allow quick and secure mounting to most types of pneumatic actuators including VDI/VDE.3845 topworks actuators with a minimum height clearance requirements.
- Different electrical functions available including mechanical switches, reed type proximity switches, inductive proximity sensors and 4 to 20mA feedback transmitters.



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Materials of Construction

Housing	Anodised Marine Grade Aluminium Urethane Coated (<i>Black</i>) or CF8M (316SS) Stainless Steel		
Cover	Anodised Marine Grade Aluminium Urethane Coated (<i>Black</i>) or CF8M (316SS) Stainless Steel (Optional – AQ Non-Hazardous – Clear Polycarbonate)		
Shaft	300 Stainless Steel	Seals	Viton

Enclosure

Type	AQ – Weatherproof. EQ and IQ - Flameproof	Ingress Protection	IP67
Conduit Entries	1, 2 or 3 x M20 (Optional – PG13.5 & NPT), Note: EEx d aluminium only available with 1 or 2 x M20 and Stainless Steel only available with 2 or 3 entries		

Visual Indication

Type R	Red Closed / Green Open (Optional 3-way flow indicators)
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Electrical Functions*

16 / 55	(2) / (4) SPDT V3 Mechanical	10 A @ 125 / 250 VAC, 0.5 A @ 125 VDC
17 / 56	(2) / (4) SPDT V3 Mechanical 'Gold Plated' Contacts	1 A @ 125 VAC, 0.5 A @ 30VDC
25 / 58	(2) / (4) SPDT Reed Type Proximity	Volts 500 V AC / DC (<i>Max.</i>), Current 3 A (<i>Max.</i>), Power 100 Watts / VA (<i>Max.</i>) 3 Watts (<i>Min.</i>)
40 / 59	(2) / (4) SPST Reed Type Proximity	0.15 A @ 30 VDC
42 / 52	(2) / (4) V3 Namur Type Inductive Proximity EEx ia	On I <1mA, Off I >3mA, 8 VDC Nominal
	(2) / (4) V3 Inductive Proximity 3-Wire	On Request
43	(2) Cylindrical Namur Inductive Proximity EEx ia	On I <1mA, Off I >3mA, 8 VDC Nominal
	(2) Cylindrical Inductive Proximity 3-Wire	On Request
70	4 to 20mA Feedback	24 Volts DC
96	AS-Interface Communication Model	4 Inputs Open & Closed / 2 Power Outputs 25 to 30 VDC, 4 Watts

Hazardous Area Classification

Model AQ	Non-Hazardous ATEX II 2 G / EEx ia IIC T6 Intrinsic Safety - Functions 17, 40, 42, 43, 52, 56, 59 and 70
Model EQ / IQ	ATEX II 2 G / EEx d IIB T4 (Type EQ) ATEX II 2 GD / EEx d IIC T6 (Type IQ) Flameproof - Functions 16, 17, 25, 40, 42, 43, 55, 58, 70 and 96

*Note – Other functions available on request