

AquiTron

AT-V-B

Solenoid Valve

6Vdc Pilot Operated - Latching



DATA SHEET



aquilar
leak detection solutions



AT-V-B

Solenoid Valve 6Vdc - Pilot Operated - Latching

Brass bodied WRAS approved (certificate no. 2007001) pilot operated diaphragm valve for use with the AquiTron leak detection systems and BREEAM WAT02 & WAT03 systems including the AT-WFM major leak detection system and the Occupancy Flow Controller AT-OFC. Suitable to shut off water in situations where a compact solution is required. 6Vdc 100% duty cycle solenoid coil with latching operation means minimal heat build-up. Option to mount in any position apart from coil facing down (coil facing up is recommended).

SIMPLE OPERATION

The AT-V-B-XX solenoid valve is a 6Vdc pilot operate latching valve. The valve's operation is controlled by reversing polarity on the coil.

INSTALLATION

The valve can be installed in any position. Aquilar recommends re-sealing unions in place using a thread sealant, such as Loctite 577. Care must be taken to not let excess sealant enter the valve body.

COIL DETAILS

Operation	Latching model, operating with impulses
Min energizing time	20ms
Max energizing time	50ms
Encapsulation material	PP-V0 (self-extinguishing-polypropylene)
Coil insulation class	A (105°C)
Ambient temperature	-10°C +60°C
Electric connections	DIN 46340 - 3 poles micro plug connector
Protection degree	IP 65 (EN 60529) with micro plug connector
Voltages	DC 6-12V (+10% -10%)

MATERIALS IN CONTACT WITH FLUID

Body	Brass
Sealing	EPDM
Internal components	Brass and Stainless steel
Seat	Brass
Core Tube	Stainless steel

TECHNICAL INFORMATION

Port size ISO 228	G½	G¾	G1	G1¼	G1½
Orifice size (mm)	13.5	18	24	30	45
Differential pressure (bar) Δp min	0.35	0.35	0.35	0.50	0.50
Differential pressure (bar) Δp Max Gasses	8	8	8	10	10
Differential pressure (bar) Δp Max Liquids	8	8	8	10	10
Maximum allowable pressure (bar)	16	16	16	10	10
Kv (m3/h)	3.8	5	11	15	27
Opening time (ms)	70	70	90	30	30
Closing time (ms)	600	500	420	150	150
Fluid temperature (°C) EPDM	10 to +140			-10 to +85	
Max viscosity	5°E (~37 cStokes or mm²/s)				
Weight (Kg)	0.36	0.50	1.06	1.6	2.51

USED ON THE AT-OFC



The AT-OFC is used as a flow control device that isolates the water supply to WC's and other areas when they are not in use, thereby limiting the risk of water wastage and damage from undetected water leaks. The AT-OFC BREEAM Wat 03 Part 2 compliant controller.

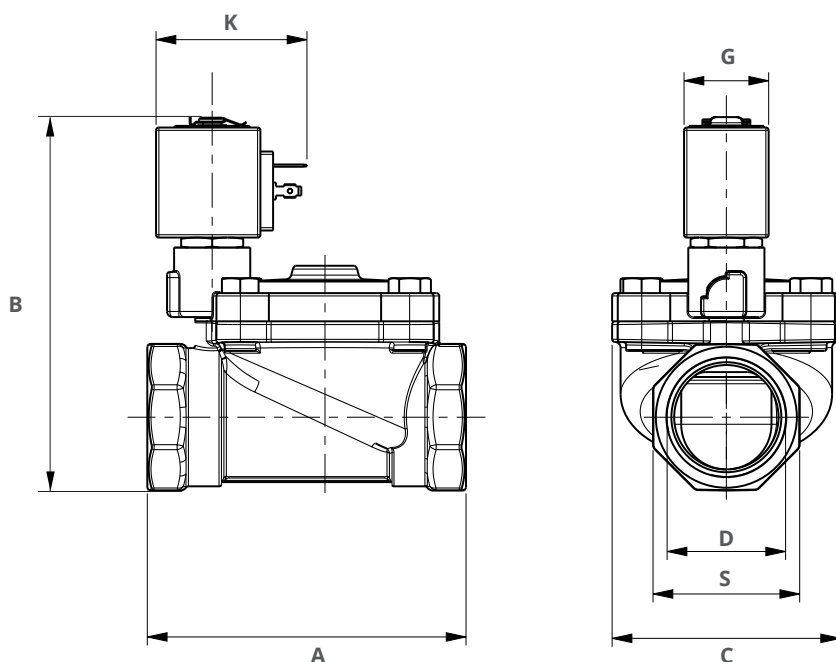
[AT-OFC Datasheet](#)

USED ON THE AT-WFM



The AT-WFM is provided with visual and audible alarms for use when the flow exceeds the pre-set limits (customer adjustable). This is combined with a set of volt free alarm contacts. The AT-WFM BREEAM Wat 03 Part 1 compliant controller.

[AT-WFM Datasheet](#)



DIMENSIONS

D	A	B	C	G	S	K
15mm - ½"	66	76	40	17	27	30.7
22mm - ¾"	79	83	50	17	33	30.7
28mm - 1"	105	100.5	71	17	42	30.7
35mm - 1 ¼"	113	132	81	30	52	53.5
42mm - 1 ½"	140	140	110	30	60	53.5

dimensions without fittings

ORDERING INFORMATION

Catalogue number	5740 AT-V-B-15 15mm (½") Brass Solenoid Valve 6vdc
	5745 AT-V-B-22 22mm (¾") Brass Solenoid Valve 6vdc
	5750 AT-V-B-28 28mm (1") Brass Solenoid Valve 6vdc
	5755 AT-V-B-35 35mm (1 ¼") Brass Solenoid Valve 6vdc
	5760 AT-V-B-42 42mm (1 ½") Brass Solenoid Valve 6vdc

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