

AquiTron

AT-VP

Polyamide Solenoid Valve



DATA SHEET



aquilar
leak detection solutions



AT-VP

Polyamide Solenoid Valve

The AquiTron range of polyamide valves are all WRAS approved, highly efficient, durable and reliable. Available in sizes 15mm to 35mm these 6Vdc latching valves are for use with our AquiTron Leak detection and BREEAM WAT02 & WAT03 systems. Including AT-WFM and AT-OFC systems.

TECHNICAL INFORMATION

CLASSIFICATION

Type	Single
Geometry	180°

WORKING SPECIFICATIONS

Working Pressure	0.5 / 10 bar
Room Temperature	0 / 60 °C
Fluid Temperature	60 °C
Duty Cycle	ED 100%
Flow Direction	Unidirectional
Nominal Diameter	DN 15-54mm
Control	NC, NO, Latching

PHYSICAL SPECIFICATIONS

Valve Body	Polyamide 30% fibre glass
Diaphragm and Gaskets	NBR (buna)
Core	Stainless Steel
Spring	Stainless Steel
Assembly	With screws for inspection
Coil	Watertight – C.E.I IP 55

****Manual Override : In all positions, manual override by rotating solenoid coil 1/4 turn**

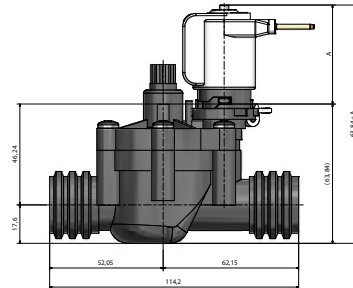
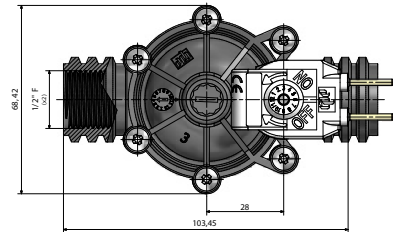
HYDRAULIC CONNECTIONS

Inlet	BSP Female Thread (Parallel)
Outlet	BSP Female Thread (Parallel)

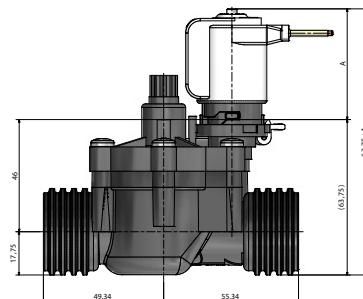
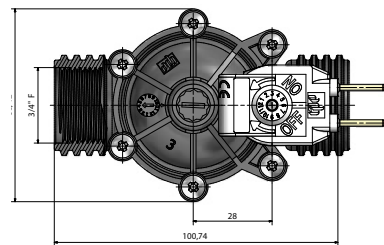
ELECTRICAL CONNECTIONS

Electric Connect 1	Male Faston 6.3 x 0.8 mm – IP X0
Electric Connect 2	Unipolar Cables max 300 mm – IP 55
Electric Connect 3	Bipolar Cables max 5000 mm – IP 55

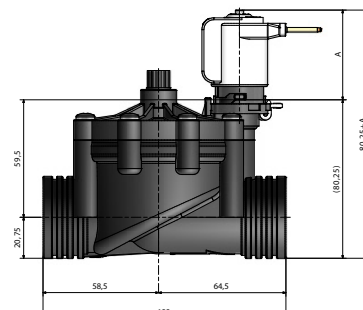
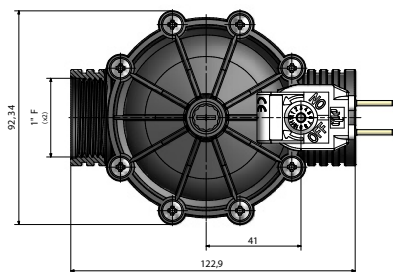
DIMENSIONS



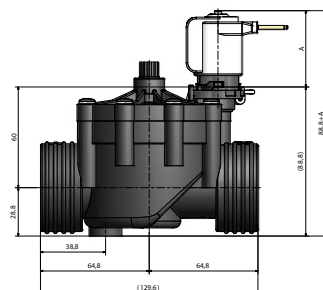
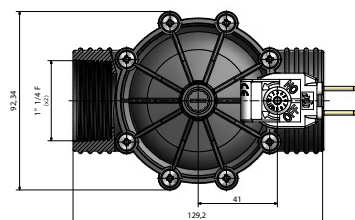
15mm



22mm



28mm



35mm

PRESSURE DROP (BAR) AND FLOW RATE (LITRES/MIN)

½" F	Bar	0.10	0.29	0.53	0.90	1.20												
	Psi	1.45	4.21	7.69	13.05	17.40												
	L/min	16.7	33.3	50	66.7	83.3												
¾" F	Bar		0.15	0.21	0.30	0.41	0.60	0.81	1.03									
	Psi		2.18	3.05	4.35	5.95	8.70	11.75	14.94									
	L/min		33.3	50	66.7	83.3	100	116.7	133.3									
1" F	Bar				0.11	0.13	0.16	0.22	0.25	0.32	0.41	0.50	0.59	0.71	0.82	1.01		
	Psi				1.60	1.89	2.32	3.19	3.63	4.54	5.95	7.25	8.56	10.30	11.89	14.65		
	L/min				66.7	83.3	100	116.7	133.3	150	166.7	183.3	200	216.7	233.3	250		
1 ¼" F	Bar			0.10	0.13	0.16	0.20	0.23	0.31	0.35	0.43	0.52	0.62	0.73	0.83	0.94	1.05	
	Psi			1.45	1.89	2.32	2.90	3.34	4.50	5.08	6.24	7.54	8.99	10.59	12.04	13.63	15.23	
	L/min			50	66.7	83.3	100	116.7	133.3	150	166.7	183.3	200	216.7	233.3	250	266.7	
Flow Rate	M3/h	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
	L/min	16.7	33.3	50	66.7	83.3	100	116.7	133.3	150	166.7	183.3	200	216.7	233.3	250	266.7	283.3
	GPM	4.4	8.8	13.2	17.6	22	26.4	30.8	35.2	39.6	44	48.4	52.8	57.2	61.6	66.1	70.5	74.9

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](#)

ORDERING INFORMATION

Catalogue number 5790 AT-PIR-V-15 15mm Valve Plastic, 6vdc

5795 AT-PIR-V-22 22mm Valve Plastic, 6vdc

5800 AT-PIR-V-28 28mm Valve Plastic, 6vdc

5805 AT-PIR-V-35 35mm Valve Plastic, 6vdc

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