Media: air – water
Pressure range: 0 to 10 Bar max
Media temperature: 0°C to +90°C max
Ambient temperature: -15°C to +60°C
Mounting: Any
Cycles: 70,000
Open or Close:10 seconds
Duty cycle: 100%
Mounting: ISO5211, F03, F05
WRAS certificate number 2012107

Actuated WRAS Ball Valve

11/4 – 2 BSP
FAILSAFE & STANDARD
2 Way 0 – 10 Bar
TYPE ABV-S-E2-MO



PRESSURE

Port BSP	Orifice mm	Operating Time Secs	Pressure (Bar) ΔP Min	Pressure (Bar) ΔP Max	Function	Voltage	Part Number	
11/4	32	10	0	10	**Failsafe Control** Power ON valve Opens Power OFF valve Closes *Failsafe requires 30 seconds Power On to recharge the Farah capacitors.*	12-24DC + 24AC	ABV12S/9AR-E2-MO	
						110-240vAC	ABV12S/2AR-E2-MO	
11/2	38	10	0	10		12-24DC + 24AC	ABV14S/9AR-E2-MO	
						110-240vAC	ABV14S/2AR-E2-MO	
2	50	10	0	10		12-24DC + 24AC	ABV20S/9AR-E2-MO	
						110-240vAC	ABV20S/2AR-E2-MO	
11/4	32	10	0	10	**3 Wire Control** Connect Power Red & Negative Black Power to Green - Valve Opens Power off Green - Valve Closes	12-24DC + 24AC	ABV12S/9-E2-MO	
						110-240vAC	ABV12S/2-E2-MO	
11/2	38	10	0	10		12-24DC + 24AC	ABV14S/9-E2-MO	
						110-240vAC	ABV14S/2-E2-MO	
2	50	10	0	10		12-24DC + 24AC	ABV20S/9-E2-MO	
						110-240vAC	ABV20S/2-E2-MO	

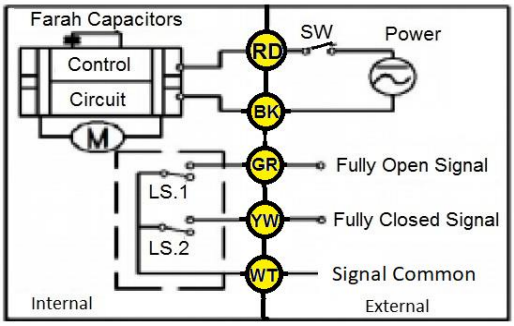
OPTIONS

Visual Position Indicator, manual override and E2 Volt free fully Open & Closed position feedback switches
Failsafe Open (MO-NO Power to close with failsafe Open), or NPT thread
3 wire 1 point control

ELECTRICAL DATA

Continuous Duty 100% *Open / Close 10 seconds*	**Open + Closed Position Switches** (Volt Free – no voltage supplied)	**Torque NM**	**Power** Start	Move	Static	**Enclosure**	**Electrical connection**
12vDC Failsafe	36vDC 0.4 Amp Max	27	3.3A	10W	0.18W	*IP67*	Cable 0.5 meter
24vDC Failsafe		24.1	1.2A	10.3W	0.29W		
110-240vAC Failsafe	220v 0.4 Amp Max	21.9	125mA	10.2W	0.5W		
12vDC Power Open/Close	36vDC 0.4 Amp Max	25.5	2.5A	2.1W	0.06W		
24vDC Power Open/Close		26	1.2A	2W	0.19W		
110-240vAC Power Open/Close	220v 0.4 Amp Max	16.3	90mA	2.3W	0.4W		

Failsafe - Automatic Return

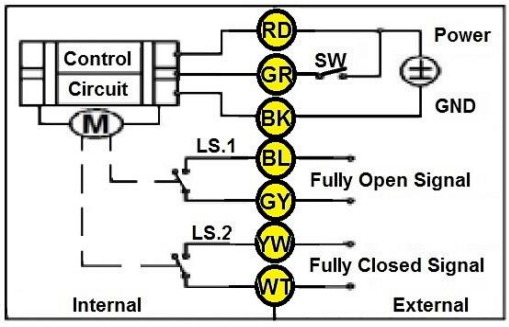


Power ON motor actuates valve into powered position and then automatically powers off. Valve stays in powered position.

Power OFF motor actuates valve back to start position using reserve power. Valve stays in start position

Failsafe Closed switches: Green Open, Yellow Closed, White Common
Failsafe Open switches: Green Closed, Yellow Open, White common

3 Wire Control



Power ON to GREEN motor actuates valve into powered position and then automatically powers off. Valve stays in powered position.

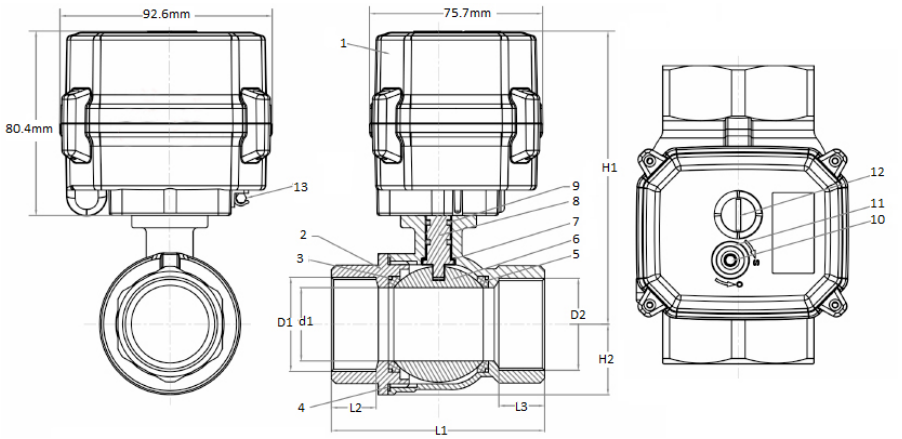
Power OFF to GREEN motor actuates valve back to start position and then automatically powers off. Valve stays in start position.

Position Feedback: Blue & Grey Open, Yellow & White Closed.

CONSTRUCTION

Valve Body: 304 stainless steel, Seals WRAS EPDM + PTFE, ABV Actuator: ABS Engineering Plastic, Gears Metal

OVERALL DIMENSIONS



Port	Bore D1	L1	L2 / L3	E1	H1	H2	KG
11/4	32	102	23	47	122	31	1.4
11/2	38	115	25	52	130	36	1.7
2	50	130	25	66	141.4	44.5	2.3

1	Actuator	PPO	**8**	Stem	Stainless
2	Cover	Stainless	**9**	O Ring	EPDM
3	O Ring	EPDM	**10**	Screw	Stainless
4	Seal	PTFE	**11**	O Ring	NBR
5	Seal	PTFE	**12**	Indicator	PC
6	Ball	Stainless	**13**	Allen Key	Steel
7	Gasket	PTFE			

Subject to Change