


# HWA Series – 2/2 Normally Closed

Specifications	
Function	Normally Closed, energise to open 
Body Material up to 3":	Aluminium
Body Material above 3":	Cast Iron
Closing Time:	Less than 1 second
Springs	Stainless Steel 302
Seal Material (Std)	NBR
Connection Type (Std)	BS21 & flanged PN16
Electrical Characteristics	
Coil Voltage AC 50 Hz (~)	110 V, 230 V
Voltage Tolerance	+10% or -10%
Protection Class (Std)	IP50 (BS EN 60529)
Electrical Connection (Std)	Suitable for M20 Conduit

## Features and Benefits

- Approved for mains gas safety shut off
- Suitable for automatic burners
- Suitable for fire protection systems
- Ideal for low pressure Natural gas
- Approved to EN161
- Compliant with Gas Appliance directive
- Fully ported orifices for high flow
- Zero pressure rated
- Slow opening
- Open and closed position volt free contacts available
- Fitted with pressure test points as standard
- Visual position indication as standard
- First, second and third family gases



## Options Available

Seal Material <sup>1</sup> and Media Temp. Range	Ambient Temperature Range °C	
	Min	Max
NBR (-10 °C to +80 °C)	0	60

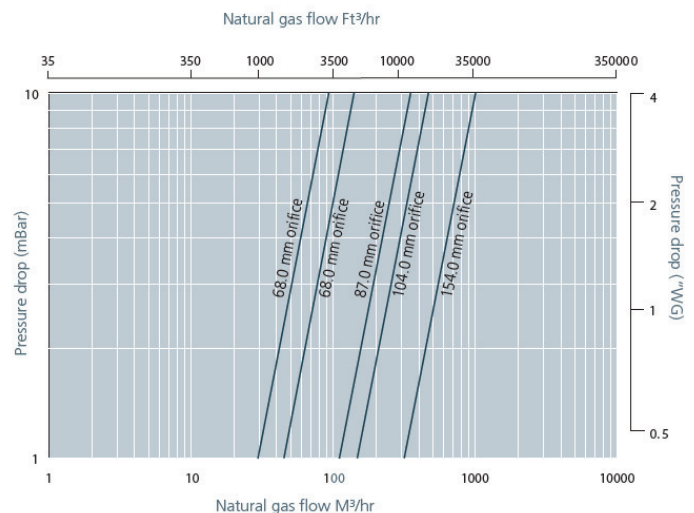
<sup>1</sup> See corrosion reference guide and sealing solutions for material compatibility.

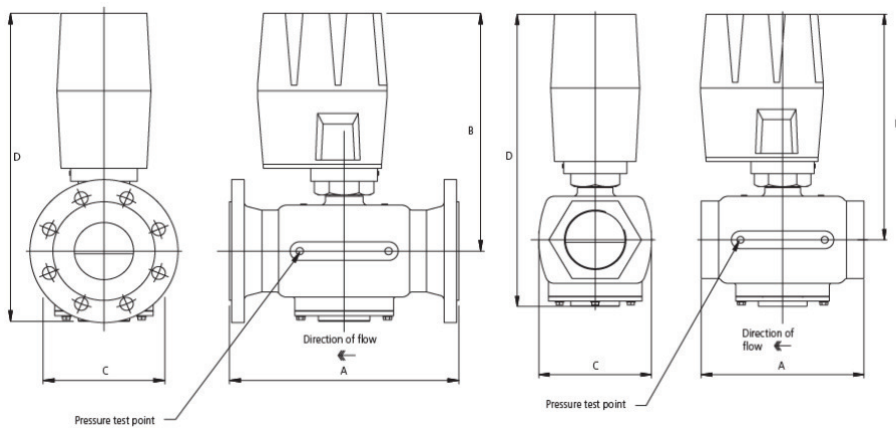
Main Valve Assembly Options
Hand reset box
Open Position Indicator Consult Rotork Midland for Product Codes

## How to use the flow chart

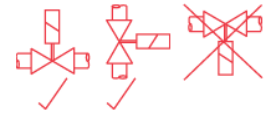
1. Select the required flow.
2. Note the corresponding pressure drop.
3. Based on where the two points intersect select the most appropriate model.

Pipe Size	Connection Type	Cv (gpm)	Kv (m <sup>3</sup> /h)	OPD (mBar)	P. Max Bar	Hold VA	Orifice (mm)	Weight (kg)
1¼"	BS21	54	46.5	0-345	5	10	68.00	9.60
1½"	BS21	54	46.5	0-345			68.00	9.60
2"	BS21	95	82	0-345			68.00	9.60
2"	Flanged	95	82	0-345			68.00	11.60
2½"	BS21	157	135	0-345			87.00	10.5
2½"	Flanged	157	135	0-345			87.00	13.1
3"	BS21	188	162	0-345			87.00	10.5
4"	Flanged	226	195	0-345			104.00	38.4
6"	Flanged	423	365	0-200			154.00	62.4





Preferred Valve Mounting Options



### Dimensions

Pipe Size	A	B	C	D
1¼"	149	294	127	368
1½"	149	294	127	368
2"	178	294	127	368
2" Flanged	230	314	127	392
2½"	238	324	159	419
2½" Flanged	290	328	159	423
3"	238	324	159	419
4"	292	352	120	508
6"	356	380	178	560

Standard Flange Size PN16 all others screwed BS21  
Dimensions given in mm

Part Number	Description
6763L/110	Hand Reset box 110 V / 50 Hz
6763L/240	Hand Reset Box 230 V / 50 Hz
10904209	Electro-thermal link 73 °C

### HWA Control Box



The hand reset control box is designed to be fitted to our HWA range of valves although it can easily be adapted for use with most valves. The control box features a push button used to activate the valve and a neon indicator that shows when the valve is latched open. The unit may be used as a stand-alone controller or together with a remote reset and indicator.

Alcon also offer a range of Electro-Thermal links that can be wired into the power supply to the HWA series valve offering shut down in the event of a fire.



### Main Valve Assembly

Model	Valve Body Conn. Size <sup>2</sup>	Connection Type	Operation
49 HWA	G 1¼"	1 BS21	1 AUTO
	H 1½"	4 FLANGED (PN16 STD)	
	J 2"		
	K 2½"		
	L 3"		
	M 4"		
	N 6"		

Body Material	Seals	Style
3 Aluminium	A NBR	1 Standard
4 Cast Iron (4" and above)		

### Coil options

Enclosure	Voltage / Frequency	Electrical Connection
7 Motorised	S1 <sup>3</sup> 110 V / 50 Hz	0 No Connector
	S2 <sup>2</sup> 110 V / 50 Hz Inc. Closed Position Indicator	
	S5 <sup>3</sup> 230 V / 50 Hz	
	S6 <sup>3</sup> 230 V / 50 Hz Inc. Closed Position Indicator	
	T1 <sup>4</sup> 110 V / 50 Hz	
	T2 <sup>4</sup> 110 V / 50 Hz Inc. Closed Position Indicator	
	T5 <sup>4</sup> 230 V / 50 Hz	
	T6 <sup>4</sup> 230 V / 50 Hz Inc. Closed Position Indicator	

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<sup>2</sup> See Features chart for available Connection Types.  
<sup>3</sup> Up to 3" only.  
<sup>4</sup> 4" and above.

### Product coding example:

49M41Z4A1-7T50 - HWA Series  
 4" Flanged, auto operation, cast iron, NBR seals, 230 V / 50 Hz.