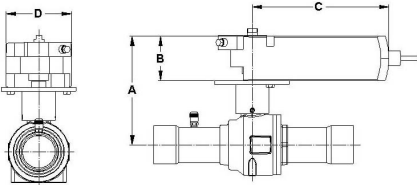


Features:

- Design Pressure (DP) / Maximum abnormal pressure (MAP): Up to 775 psig, 53 bar
- Power Supply: 24 VAC
- Control Signal: 0 to 10 VDC (Voltage Input)
- Feedback Signal: 0 to 10 VDC (Voltage Output)
- Actuator Ambient Temperature: -25°F to 130°F, -32°C to 54°C
- Contact factory or visit website for compatibility with CFC, HCFC, HFC and HFO refrigerants and oils
- Valve Refrigerant Temperature: -40°F to 300°F, -40°C to 149°C
- Remote operating and full shutoff capability
- Gradual open/close stops line hammer
- Removable actuator for quick change replacement
- Manual override and valve positioning
- Electronic overload protection
- UL/cUL Listed, Conforms to EU Pressure Equipment Directive and UK Pressure Equipment Regulation, CRN 0C1241.9C

Actuated Standard, Modulating Control



Part Number	Size		Cv	Kv	A		B		C Min		D		MAP		Wt	
	in	mm			in	mm	in	mm	in	mm	in	mm	psig	bar	lb	kg
AW17861M	1/2	13	6.20	5	4.00	102	2.36	60	3.70	94	2.76	70	775	53	2.09	0.95
AW17862M	5/8	17	12.10	10	4.00	102	2.36	60	3.70	94	2.76	70	775	53	2.09	0.95
AW17864M	7/8	22	27.50	24	4.21	107	2.36	60	3.70	94	2.76	70	775	53	2.44	1.11
AW17865M	1 1/8	29	54.00	47	4.58	116	2.36	60	3.70	94	2.76	70	775	53	3.10	1.41
AW17866M	1 3/8	35	89.10	77	5.05	128	2.36	60	5.91	150	3.19	81	775	53	6.06	2.75
AW17867M	1 5/8	41	114.00	99	5.34	136	2.36	60	5.91	150	3.19	81	775	53	6.99	3.17
AW17868M	2 1/8	54	244.00	211	6.42	163	2.66	68	8.94	227	3.94	100	700	48	13.38	6.07
AW17869 **	2 5/8	67	401.00	347	9.45	240	5.30	135	8.94	227	3.94	100	700	48	23.40	10.61
AW17870 **	3 1/8	79	553.00	478	9.99	254	5.30	135	8.94	227	3.94	100	700	48	31.40	14.24
AW17871M *	2 5/8	67	230.00	199	6.42	163	2.66	68	8.94	227	3.94	100	700	48	12.58	5.71
AW17872M *	3 1/8	79	143.00	124	6.42	163	2.66	68	8.94	227	3.94	100	700	48	13.19	5.98

Actuated Standard, Modulating Ball Valve Accessory Components

Part Number	Size	Base Valve	Motor Series	Motor	Hub Kit	Motor and Hub Kit	Enclosure Kit	Heater Assembly
AW17861M	1/2	AQ17861C	1M	P 37795	A 18389			
AW17862M	5/8	AQ17862C	1M	P 37795	A 18389			
AW17864M	7/8	AQ17864C	1M	P 37795	A 18391			
AW17865M	1 1/8	AQ17865	1M	P 37795	A 18391			
AW17866M	1 3/8	AC17866	2M	P 37796	A 18393		A 18393-KIT2	A 18366
AW17867M	1 5/8	AC17867	2M	P 37796	A 18393		A 18393-KIT2	A 18366
AW17868M	2 1/8	AC17868	3M	P 36714	A 18368		A 18368-KIT3	A 18367
AW17869	2 5/8	** AC17869	4	P 36714 (2)	A 18400		A 18400-KIT4	A 18367 (2)
AW17870	3 1/8	** AC17870	4	P 36714 (2)	A 18400		A 18400-KIT4	A 18367 (2)
AW17871M	2 5/8	* AC17871	3M	P 36714	A 18368		A 18368-KIT3	A 18367
AW17872M	3 1/8	* AC17872	3M	P 36714	A 18368		A 18368-KIT3	A 18367

Chart includes components required for current product line assemblies. Consult factory for questions regarding replacement components in existing system

* Reduced Port

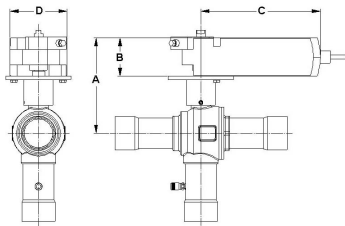
** Consists of two stacked motors operating in tandem

Warning Heater assembly required for low temperature applications

Warning Motors not for use in wet or applications where moisture will condense on motor



Actuated 3-Way, Modulating Control



Part Number	Size		Cv	Kv	A		B		C Min		D		MAP		Wt	
	in	mm			in	mm	in	mm	in	mm	in	mm	psig	bar	lb	kg
AY17861M	1/2	13	3.90	3	4.18	106	2.36	60	3.70	94	2.76	70	700	48	2.62	1.19
AY17862M	5/8	17	4.60	4	4.18	106	2.36	60	3.70	94	2.76	70	700	48	2.74	1.24
AY17863M	3/4	19	11.90	10	4.50	114	2.36	60	3.70	94	2.76	70	700	48	4.03	1.83
AY17864M	7/8	22	1.90	2	4.50	114	2.36	60	3.70	94	2.76	70	700	48	3.74	1.70
AY17865M	1 1/8	29	19.30	17	5.02	128	2.36	60	5.91	150	3.19	81	700	48	6.58	2.99
A 17810M	1 3/8	35	31.10	27	5.44	138	2.36	60	5.91	150	3.19	81	700	48	9.34	4.24
A 17811M	1 5/8	41	44.70	39	6.22	158	2.66	68	8.94	227	3.94	100	700	48	13.80	6.26
AY17868M	2 1/8	54	76.30	66	6.54	166	2.66	68	8.94	227	3.94	100	700	48	12.68	5.75
AY17871M *	2 5/8	67	69.90	60	6.54	166	2.66	68	8.94	227	3.94	100	700	48	13.00	5.90
AY17872M *	3 1/8	79	58.20	50	6.54	166	2.66	68	8.94	227	3.94	100	700	48	13.71	6.22

Actuated 3 Way, Modulating Ball Valve Accessory Components

Part Number	Size	Base Valve	Motor Series	Motor	Hub Kit	Motor and Hub Kit	Enclosure Kit	Heater Assembly
AY17861M	1/2	AU17861	1M	P 37795	A 18389			
AY17862M	5/8	AU17862	1M	P 37795	A 18389			
AY17863M	3/4	AU17863	1M	P 37795	A 18391			
AY17864M	7/8	AU17864	1M	P 37795	A 18391			
AY17865M	1 1/8	AU17865	2M	P 37796	A 18393		A 18393-KIT2	A 18366
A 17810M	1 3/8	A 17545	2M	P 37796	A 18368		A 18368-KIT2	A 18366
A 17811M	1 5/8	A 17546	3M	P 36714	A 18368		A 18368-KIT3	A 18367
AY17868M	2 1/8	AU17868	3M	P 36714	A 18368		A 18368-KIT3	A 18367
AY17871M *	2 5/8	AU17871	3M	P 36714	A 18368		A 18368-KIT3	A 18367
AY17872M *	3 1/8	AU17872	3M	P 36714	A 18368		A 18368-KIT3	A 18367

Chart includes components required for current product line assemblies. Consult factory for questions regarding replacement components in existing systems.

* Reduced Port

** Consists of two stacked motors operating in tandem

Warning Heater assembly required for low temperature applications

Warning Motors not for use in wet or applications where moisture will condense on motor

Modulating Motor Specifications

Motor Series	Torque (in-lb)	Power Consumption (VA)	Running Time (seconds)
1M	44	3.3	90
2M	132	5	125
3M	310	8	125
4**	620	16	125

Tonnage calculations are based on the following conditions:

Evaporator temperature: 40°

Vapor temperature exiting evaporator: 10°F superheated

Liquid temperature entering evaporator: 100°F

Hot gas temperature: 140°F

Pressure drop across valve: 1 psig

Part Number	Liquid Capacity (tons)					Suction Capacity (tons)					Hot Gas Capacity (tons)				
	R22	R134a	R404A/ R507	R407C	R410A	R22	R134a	R404A/ R507	R407C	R410A	R22	R134a	R404A/ R507	R407C	R410A
AW17861M	19.0	17.7	12.2	18.13	17.8	2.7	2.1	2.2	2.52	3.1	3.9	3.2	3.2	4.05	4.5
AW17862M	36.9	34.5	23.8	35.27	34.6	5.2	4.1	4.3	4.90	6.0	7.5	6.2	6.2	7.87	8.7
AW17864M	84.1	78.4	54.2	80.27	78.8	11.8	9.2	9.8	11.15	13.7	17.1	14.1	14.0	17.92	19.8
AW17865M	165.3	154.3	106.5	157.86	154.9	23.2	18.1	19.4	21.92	27.0	33.7	27.7	27.6	35.24	38.9
AW17866M	272.9	254.7	175.8	260.62	255.8	38.3	29.9	32.0	36.19	44.6	55.6	45.7	45.6	58.18	64.2
AW17867M	348.7	325.3	224.6	332.95	326.8	49.0	38.2	40.8	46.23	57.0	71.1	58.4	58.3	74.33	82.1
AW17868M	746.8	696.9	481.2	713.19	699.9	104.9	81.9	87.5	99.03	122.2	152.3	125.0	124.8	159.21	175.8
AW17869	1227.6	1145.5	791.0	1172.30	1150.5	172.4	134.6	143.8	162.78	200.8	250.3	205.5	205.2	261.71	289.0
AW17870	1693.7	1580.4	1091.3	1617.41	1587.4	237.9	185.8	198.4	224.58	277.0	345.3	283.5	283.1	361.08	398.7
AW17871M	705.3	658.2	454.5	673.57	661.1	99.1	77.4	82.6	93.53	115.4	143.8	118.1	117.9	150.37	166.0
AW17872M	439.3	409.9	283.0	419.50	411.7	61.7	48.2	51.5	58.25	71.9	89.6	73.5	73.4	93.65	103.4
AY17861M	12.1	11.3	7.8	11.52	11.3	1.7	1.3	1.4	1.60	2.0	2.5	2.0	2.0	2.57	2.8
AY17862M	14.2	13.2	9.1	13.54	13.3	2.0	1.6	1.7	1.88	2.3	2.9	2.4	2.4	3.02	3.3
AY17863M	36.4	34.0	23.5	34.79	34.1	5.1	4.0	4.3	4.83	6.0	7.4	6.1	6.1	7.77	8.6
AY17864M	33.3	31.1	21.5	31.84	31.2	4.7	3.7	3.9	4.42	5.5	6.8	5.6	5.6	7.11	7.8
AY17865M	59.2	55.2	38.1	56.52	55.5	8.3	6.5	6.9	7.85	9.7	12.1	9.9	9.9	12.62	13.9
A 17810M	95.1	88.7	61.3	90.81	89.1	13.4	10.4	11.1	12.61	15.6	19.4	15.9	15.9	20.27	22.4
A 17811M	136.8	127.7	88.2	130.66	128.2	19.2	15.0	16.0	18.14	22.4	27.9	22.9	22.9	29.17	32.2
AY17868M	233.7	218.0	150.6	223.14	219.0	32.8	25.6	27.4	30.98	38.2	47.6	39.1	39.1	49.81	55.0
AY17871M	213.9	199.6	137.8	204.22	200.4	30.0	23.5	25.1	28.36	35.0	43.6	35.8	35.7	45.59	50.3
AY17872M	178.2	166.2	114.8	170.13	167.0	25.0	19.5	20.9	23.62	29.1	36.3	29.8	29.8	37.98	41.9