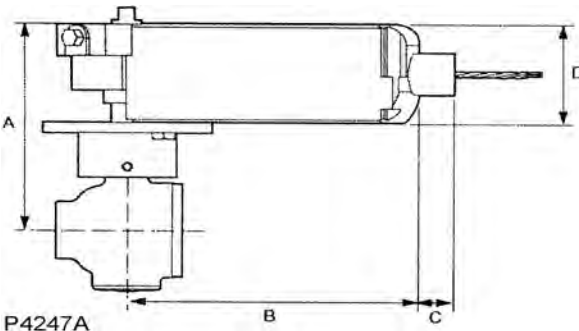


MUELLER - CYCLEMASTER ACTUATED BALL VALVES SPECIFICATIONS

TECHNICAL DATA			
Actuator	Series I	Series II	Series III
Sizes	1/2 -7/8	1-1/8 -1-5/8	2-1/8 -3-1/8
Torque (in.-lb)	44	132	310
Power Supply (VAC)	24	24	24
Power Consumption (W)	2.3	3	7
Running Time (seconds)	90	125	125
Ambient Temperature (°F)	-22 to 130	-22 to 130	-22 to 130
Ball Valve			
Refrigerants	All Fluorinated Types		
Maximum Working Pressure (psig)	700 psig		
Working Temperature Range (°F)	-40 to 300° F		

STRAIGHT



PART NO	SIZE	A	B	C	D
AW17861	1/2	4.05	3.71	NA	2.69
AW17862	5/8	4.05	3.71	NA	2.69
AW17863	3/4	4.36	3.71	NA	2.69
AW17864	7/8	4.36	3.71	NA	2.69
AW17865	1-1/8	4.89	5.75	.65	3.18
AW17866	1-3/8	5.12	5.75	.65	3.18
AW17867	1-5/8	5.84	5.75	.65	3.18
AW17868	2-1/8	6.50	8.25	.67	3.93
AW17871	2-5/8	6.50	8.25	.67	3.93
AW17872	3-1/8	6.50	8.25	.67	3.93

P4247A

Prefixed for Actuator Options:

- AWS = Straight actuated ball valve with auxiliary switch
- AYS = 3-way actuated ball valve with auxiliary switch
- AS = 3-way actuated ball valve with auxiliary switch
- BS = Actuator kit with auxiliary switch

Warnings:

- Motors not for use in wet or condensing applications.**
- Heater assembly required in low temperature applications.**
- Conditions:**

- Tonnage calculations are based on the following conditions;
- Evaporator temperature = 10°F
- Vapor temperature exiting evaporator = 10°F superheated
- Liquid temperature entering evaporator = 100°F
- Hot gas temperature = 140°F
- Pressure drop across valve = 1 psi

Straight	Nominal Liquid Capacity					Suction Vapor Capacity				Nominal Hot Gas Capacity			
	Size	Cv	Tons				Tons				Tons		
		R12	R134a	R404a	R410a	R12	R134a	R404a	R410a	R12	R134a	R404a	R410a
1/2	6.20	18.25	12.62	19.62	2.00	1.47	1.57	2.36	3.72	2.97	2.86	4.34	
5/8	11.20	32.97	22.80	35.44	3.61	2.65	2.83	4.27	6.73	5.38	5.16	7.85	
3/4	18.95	55.78	38.57	59.96	6.10	4.49	4.78	7.22	11.38	9.08	8.73	13.27	
7/8	29.30	86.24	59.64	92.70	9.44	6.94	7.40	11.17	17.59	14.04	13.49	20.52	
1-1/8	56.55	166.45	115.10	178.92	18.22	13.40	14.27	21.55	33.96	27.10	26.04	39.61	
1-3/8	84.58	248.95	172.15	267.61	27.24	20.04	21.35	32.23	50.79	40.53	38.95	59.24	
1-5/8	125.04	370.53	262.37	400.03	41.23	30.33	32.30	48.77	76.86	61.33	58.93	89.65	
2-1/8	291.59	858.25	593.48	922.58	93.93	69.10	73.59	111.11	175.09	139.72	134.26	204.24	
2-5/8*	184.85	600.06	544.08	376.23	584.86	59.24	43.80	46.65	70.44	111.00	88.57	129.47	
3-1/8*	127.99	415.48	376.72	260.50	404.96	41.23	30.33	32.30	48.77	76.86	61.33	89.65	

* Reduced Port

MUELLER - CYCLEMASTER ACTUATED BALL VALVES 3-WAY

PART NO	SIZE	A	B	C	D	Actuated 3 Way Kits
AY17861	1/2	4.05	3.71	NA	2.69	B 34437
AY17862	5/8	4.05	3.71	NA	2.69	B 34437
AY17863	3/4	4.36	3.71	NA	2.69	B 34438
AY17864	7/8	4.36	3.71	NA	2.69	B 34438
AY17865	1-1/8	4.89	5.75	.65	3.18	B 34439
A 17810	1-3/8	5.70	5.75	.65	3.18	B 34440
A 17811	1-5/8	6.19	5.75	.65	3.18	B 34441
AY 17868	2-1/8	6.50	8.25	.67	3.93	B 34442
AY 17871	2-5/8	6.50	8.25	.67	3.93	B 34442
AY 17872	3-1/8	6.50	8.25	.67	3.93	B 34442

ACTUATED BALL VALVES ACCESSORIES

PART NO	Accessories	For Use with Actuator
P 36532	Housing	Series II
P 36533	Heater	Series II
P 36534	Heated Housing	Series II
P 36535	Housing	Series III
P 36536	Heater	Series III
P 36537	Heated Housing	Series III