



Refrigeration Control Components

PRODUCT SPECIFICATION GUIDE

VALVES

- Ball Valves
- Actuated Ball Valves
- Check Valves
- Compressor Valves & Kits
- Packed Line Valves
- Isolation Valves
- Relief Valves
- Packless Diaphragm Valves

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- Strainers

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- Fusible Plugs & Unions
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FABRICATION & ASSEMBLIES

- Custom Fabrication
- Custom Assemblies



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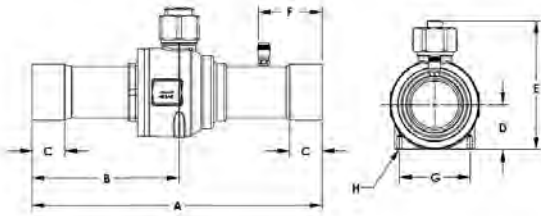
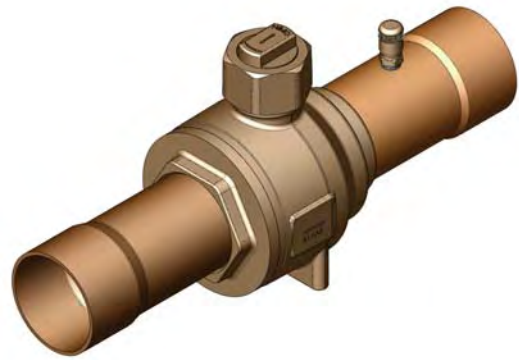
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CYCLEMASTER® Ball Valves

Look for these Mueller advantages:

- Maximum working pressure (PS): 700 psig, 48 bar
- Working temperature range (TS): -40°F/300°F, -40°C/149°C
- Compatible with all CFC, HCFC and HFC refrigerants and oils
- UL/cUL Listed, CE Certified
- RoHS Compliant
- Full port construction to match line size ID
- Internally equalized ball design
- Rupture-proof encapsulated stem
- MCM™ Seal Technology



Part No.	Size (in)	Cv	A (in)	B (in)	C (in)	D (in)	E (in)	F** (in)	G** (in)	Port Size	H**	Wt (lb)	Seal Cap Kit****
A 17859•	1/4	1.0	5 7/16	2 15/16	5/16	7/8	2 3/4	NA	14	1/2	M4 X 0.7	0.70	A 17842
A 17860•	3/8	4.3	5 1/2	3	5/16	7/8	2 3/4	15/16	14	1/2	M4 X 0.7	0.69	A 17842
A 17861•	1/2	6.2	6 3/8	3 7/16	3/8	7/8	2 3/4	1 3/16	14	1/2	M4 X 0.7	0.69	A 17842
A 17862•	5/8	11.2	6 3/8	3 7/16	1/2	7/8	2 3/4	1 3/8	14	1/2	M4 X 0.7	0.73	A 17842
A 17863•	3/4	19.0	7 7/16	3 7/8	5/8	1 1/4	3 1/2	1 1/2	20	3/4	M4 X 0.7	1.15	A 17843
A 17864•	7/8	29.3	7 7/16	3 7/8	3/4	1 1/4	3 1/2	1 5/8	20	3/4	M4 X 0.7	1.53	A 17843
A 17865	1 1/8	59.6	8 7/16	4 5/16	7/8	1 9/16	3 13/16	1 3/4	25	1	M4 X 0.7	2.92	A 17844
A 17866	1 3/8	84.6	10	5	1	1 1/2	4 3/16	2 1/16	30	1 1/4	M6 X 1.0	3.48	A 17844
A 17867	1 5/8	225	11	5 1/2	1 1/8	1 11/16	4 7/8	2 1/4	34	1 1/2	M6 X 1.0	5.02	A 17845
A 17868	2 1/8	292	12	6	1 3/8	2 1/8	5 9/16	2 17/20	34	2	M6 X 1.0	8.60	A 17845
A 17869	2 5/8	423	13 1/2	6 13/16	1 1/2			3 23/50		2-9/20		9.20	A 17846
A 17870	3 1/8	553	16	8	1 3/8			3 1/8		3		11.00	A 17846
A 17871*	2 5/8	230	12	6	1 3/8	2 1/8	5 5/8	2 3/8	34	2	M6 X 1.0	14.00	A 17845
A 17872*	3 1/8	143	12	6	1 11/16	2 1/8	5 5/8	3 1/16	34	2	M6 X 1.0	23.50	A 17845
B 34909***	3 5/8***												
B 34910***	4 1/8***												

Part No.	Size (mm)	Kv	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F** (mm)	G** (mm)	Port Size	H**	Wt (kg)	Seal Cap Kit****
A 17859•	6	0.9	138	75	8	22	70	NA	356	13	M4 X 0.7	0.32	A 17842
A 17860•	10	3.7	140	76	8	22	70	24	356	13	M4 X 0.7	0.31	A 17842
A 17861•	13	5.3	162	87	10	22	70	30	356	13	M4 X 0.7	0.31	A 17842
A 17862•	16	9.6	162	87	13	22	70	35	356	13	M4 X 0.7	0.33	A 17842
A 17863•	19	16.2	189	98	16	32	89	38	508	19	M4 X 0.7	0.52	A 17843
A 17864•	22	25.0	189	98	19	32	89	41	508	19	M4 X 0.7	0.69	A 17843
A 17865	29	50.8	214	110	22	40	97	44	635	25	M4 X 0.7	1.32	A 17844
A 17866	35	72.1	254	127	25	38	106	52	762	32	M6 X 1.0	1.58	A 17844
A 17867	41	192	279	140	29	43	124	57	864	38	M6 X 1.0	2.28	A 17845
A 17868	54	249	305	152	35	54	141	72	864	51	M6 X 1.0	3.90	A 17845
A 17869	67	361	305	152	35	54	143	60	864	51	NA	6.35	A 17846
A 17870	79	472	305	152	43	54	143	78	864	51	NA	10.66	A 17846
A 17871*	67	196	343	173	38			88		62	M6 X 1.0	4.17	A 17845
A 17872*	79	122	406	203	35			79		76	M6 X 1.0	4.99	A 17845
B 34909***	92***												
B 34910***	104***												

- * Reduced port
- ** Where Applicable
- *** Consult factory for details
- **** Includes Seal Cap, Seal Cap Gasket, Anti-Friction Ring, Cap Nut
- Sizes not available in "Standard, A" or "Standard with Access, AC" options. Substitute "AP" for "A" and "AQ" for "AC".

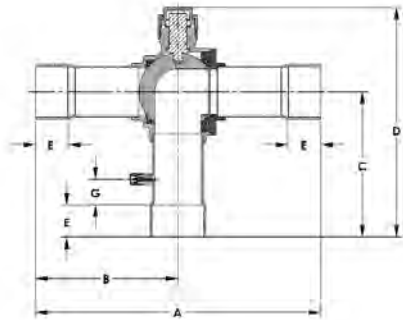
Prefixed for Ball Valve Options:

- A = Standard
- AC = Standard with access
- ACX = Standard with access and I-piece valox cap
- AP = Drilled & tapped
- APX = Drilled & tapped with I-piece valox cap
- AQ = Drilled & tapped with access
- AQX = Drilled & tapped with access & I-piece valox cap
- AU = 3-Way with access

CYCLEMASTER® 3-Way Ball Valves

Look for these Mueller advantages:

- Maximum working pressure (PS): 700 psig, 48 bar
- Working temperature range (TS): -40°F/300°F, -40°C/149°C
- Compatible with all CFC, HCFC and HFC refrigerants and oils
- UL/cUL Listed, CE Certified
- RoHS Compliant
- Full port construction to match line size ID
- Internally equalized ball design
- Rupture-proof encapsulated stem
- MCM™ Seal Technology



Part No.	Size (in)	Cv	A (in)	B (in)	C (in)	D (in)	E (in)	F** (in)	G** (in)	Wt (lb)	Seal Cap Kit****
AU17860	3/8	2.23	4 7/8	2 21/32	2 19/64	3 21/32	5/16	1/2	41/64	0.63	A 17842
AU17861	1/2	3.94	5 3/8	3 3/64	2 43/64	4 7/32	3/8	1/2	53/64	0.63	A 17842
AU17862	5/8	4.63	5 3/8	2 59/64	2 35/64	4 7/64	1/2	1/2	27/32	0.63	A 17842
AU17863	3/4	11.90	6 1/4	3 57/64	3	5 1/4	5/8	3/4	55/64	1.40	A 17843
AU17864	7/8	10.89	5 31/32	3 5/32	2 29/32	4 7/8	3/4	3/4	27/32	1.52	A 17843
AU17865	1 1/8	19.33	6 39/64	3 3/16	3 7/64	5 31/64	29/32	1	53/64	2.82	A 17844
A 17545	1 3/8	31.06	8 1/16	4 7/64	3 61/64	6 57/64	31/32	1 1/4	1 5/64	4.97	A 17844
A 17546	1 5/8	44.69	8 7/8	4 7/16	4 23/64	7 33/64	1 3/32	1 1/2	1 5/32	7.60	A 17845
AU17868	2 1/8	76.32	9 5/16	4 39/64	4 23/32	8 13/32	1 11/32	2	1 5/64	13.80	A 17845
AU17871*	2 5/8	69.85	9 1/16	4 15/32	4 19/32	8 9/32	1 15/32	2	1 1/64	8.80	A 17845
AU17872*	3 1/8	58.19	8 11/16	4 9/32	4 11/32	8 3/32	1 21/32	2	1 27/64	11.10	A 17845

Part No.	Size (mm)	Kv	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F** (mm)	G** (mm)	Wt (kg)	Seal Cap Kit****
AU17860	10	2	124	67	58	93	8	10	16	0.29	A 17842
AU17861	13	3	137	77	68	107	10	10	21	0.29	A 17842
AU17862	16	4	137	74	65	104	13	10	21	0.29	A 17842
AU17863	19	10	159	99	76	133	16	19	22	0.64	A 17843
AU17864	22	9	152	80	74	124	19	19	21	0.69	A 17843
AU17865	29	16	168	81	79	139	23	25	21	1.28	A 17844
A 17545	35	26	205	104	100	175	25	32	27	2.25	A 17844
A 17546	41	38	225	117	111	191	28	38	29	3.45	A 17845
AU17868	54	65	237	117	120	214	34	51	27	6.26	A 17845
AU17871*	67	60	230	114	117	210	37	51	16	3.99	A 17845
AU17872*	79	50	221	109	110	206	42	51	16	5.03	A 17845

- * Reduced port
- ** Where Applicable
- *** Consult factory for details
- **** Includes Seal Cap, Seal Cap Gasket, Anti-Friction Ring, Cap Nut
- Sizes not available in "Standard, A" or "Standard with Access, AC" options.
Substitute "AP" for "A" and "AQ" for "AC".

Prefixed for Ball Valve Options:

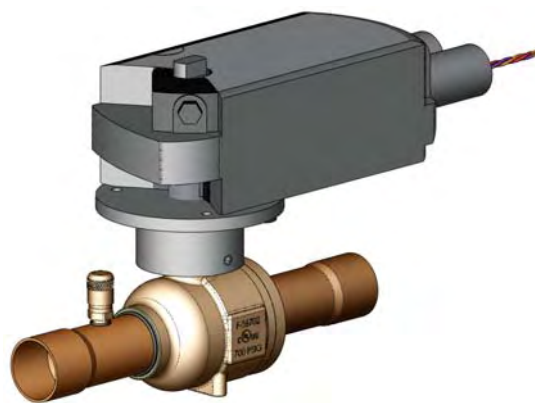
- A = Standard
- AC = Standard with access
- ACX = Standard with access and 1-piece valox cap
- AP = Drilled & tapped
- APX = Drilled & tapped with 1-piece valox cap
- AQ = Drilled & tapped with access
- AQX = Drilled & tapped with access & 1-piece valox cap
- AU = 3-Way with access



CYCLEMASTER® Actuated Ball Valves

Look for these Mueller advantages:

- Maximum working pressure (PSI): 700 psig, 48 bar
- Power Supply: 24 VAC
- Ambient Temperature: -22°F to 130°F, -30°C to 54°C
- Compatible with all CFC, HCFC and HFC refrigerants and oils
- UL/cUL Listed, CE Certified
- RoHS Compliant
- Full Shutoff capability
- Gradual open/close stops line hammer
- Remote operating capability
- Removable actuator for quick change replacement
- Manual override and valve positioning
- Electronic overload protection
- Motor Specifications:



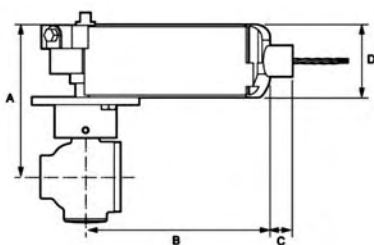
Motor Series	1	2	3	4
Torque (in-lb)	44	132	310	620
Power Consumption (W)	2.3	3.0	7	16
Running time (seconds)	90	125	125	125

Motor 4 consists of 2 stacked motors operating in tandem.

Warnings:

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

Heater assembly is required in low temperature applications.



Part No.	Size (in)	Cv	A (in)	B (in)	C (in)	D (in)	Wt. (lb)	Motor Series	Hub Design	Actuator Kits	Heater
AWI7861	1/2	6.20	4 1/20	3 22/31	NA	2 20/29	2.48	1	A	A 18390	—
AWI7862	5/8	11.20	4 1/20	3 22/31	NA	2 20/29	2.38	1	A	A 18390	—
AWI7863	3/4	18.95	4 9/25	3 22/31	NA	2 20/29	2.84	1	B	A 18392	—
AWI7864	7/8	29.30	4 9/25	3 22/31	NA	2 20/29	3.22	1	B	A 18392	—
AWI7865	1 1/8	56.55	4 8/9	5 3/4	13/20	3 9/50	6.42	2	C	A 18394	A 18366
AWI7866	1 3/8	84.58	5 3/25	5 3/4	13/20	3 9/50	6.81	2	C	A 18394	A 18366
AWI7867	1 5/8	225.04	5 21/25	5 3/4	13/20	3 9/50	9.66	2	D	A 18396	A 1836
AWI7868	2 1/8	291.59	6 1/2	8 1/4	65/97	3 40/43	13.51	3	D	A 18395	A 18367
AWI7869	2 5/8	423.00	9 1/2	8 1/4	65/97	5 2/7	25.12	4	E	A 18401	A 18367
AWI7870	3 1/8	553.00	9 7/8	8 1/4	65/97	5 2/7	27.12	4	E	A 18401	A 18367
AWI7871*	2 5/8	184.85	6 1/2	8 1/4	65/97	3 40/43	14.02	3	D	A 18395	A 18367
AWI7872*	3 1/8	128.00	6 1/2	8 1/4	65/97	3 40/43	NA	3	D	A 18395	A 18367

Part No.	Size (in)	Cv	A (in)	B (in)	C (in)	D (in)	Wt. (lb)	Motor Series	Hub Design	Actuator Kits	Heater
AWI7861	13	5.29	103	94	NA	68	1.12	1	A	A 18390	—
AWI7862	16	9.55	103	94	NA	68	1.08	1	A	A 18390	—
AWI7863	19	16.16	111	94	NA	68	1.29	1	B	A 18392	—
AWI7864	22	24.99	111	94	NA	68	1.46	1	B	A 18392	—
AWI7865	29	48.24	124	146	17	81	2.91	2	C	A 18394	A 18366
AWI7866	35	72.15	130	146	17	81	3.09	2	C	A 18394	A 18366
AWI7867	41	191.96	148	146	17	81	4.38	2	D	A 18396	A 18366
AWI7868	54	248.73	165	210	17	100	6.13	3	D	A 18395	A 18367
AWI7869	67	360.82	241	210	17	134	11.39	4	E	A 18401	A 18367
AWI7870	79	471.71	251	210	17	134	12.30	4	E	A 18401	A 18367
AWI7871*	67	157.68	165	210	17	100	6.36	3	D	A 18395	A 18367
AWI7872*	79	109.18	165	210	17	100	NA	3	D	A 18395	A 18367

* Reduced Port

Prefixed for Actuator Options:

AWS = Straight Actuated Ball Valve with Auxiliary Switch

AYS = 3 Way Actuated Ball Valve with Auxiliary Switch

AS = Actuator kit with Auxiliary Switch

Hub References:

A = A 18389

B = A 18391

C = A 18393

D = A 18368

E = A 18400

For tonnage calculations, see page 6.

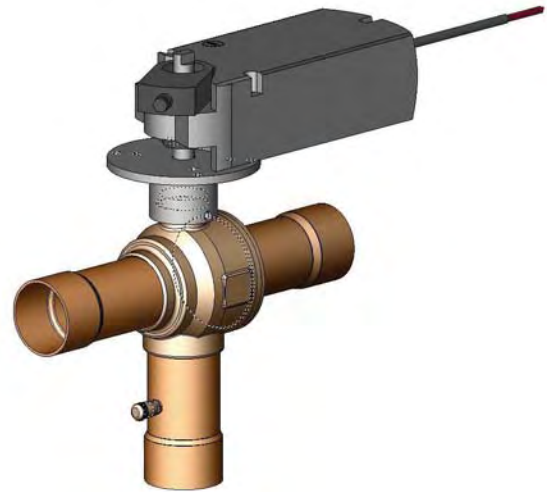
CYCLEMASTER® 3-Way Actuated Ball Valves

Look for these Mueller advantages:

- Maximum working pressure (PS): 700 psig, 48 bar
- Power Supply: 24 VAC
- Ambient Temperature: -22°F to 130°F, -30°C to 54°C
- Compatible with all CFC, HCFC and HFC refrigerants and oils
- UL/cUL Listed, CE Certified
- RoHS Compliant
- Full Shutoff capability
- Gradual open/close stops line hammer
- Remote operating capability
- Removable actuator for quick change replacement
- Manual override and valve positioning
- Electronic overload protection
- Motor Specifications:

Motor Series	1	2	3	4
Torque (in-lb)	44	132	310	620
Power Consumption (W)	2.3	3.0	7	16
Running time (seconds)	90	125	125	125

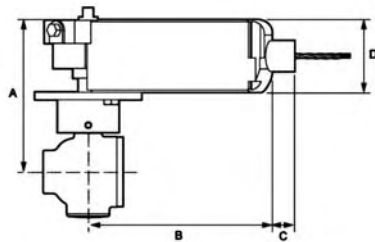
Motor 4 consists of 2 stacked motors operating in tandem.



Warnings:

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

Heater assembly is required in low temperature applications.



Part No.	Size	Cv	A (in)	B (in)	C (in)	D (in)	Wt. (lb)	Motor Hub Series Design	Actuator Kits	Heater
AY17861	1/2	3.94	4 1/20	3 22/31	NA	2 20/29		1 A	A 18390	—
AY17862	5/8	4.63	4 1/20	3 22/31	NA	2 20/29	2.39	1 A	A 18390	—
AY17863	3/4	11.9	4 9/25	3 22/31	NA	2 20/29		1 B	A 18392	—
AY17864	7/8	10.9	4 9/25	3 22/31	NA	2 20/29	3.25	1 B	A 18392	—
AY17865	1 1/8	19.3	4 8/9	5 3/4	13/20	3 9/50	9.00	2 C	A 18394	A 18366
A 17810	1 3/8	31.1	5 7/10	5 3/4	13/20	3 9/50	11.00	2 D	A 18396	A 18366
A 17811	1 5/8	44.7	6 4/21	5 3/4	13/20	3 9/50	12.00	3 D	A 18396	A 18367
AY17868	2 1/8	76.3	6 1/2	8 1/4	65/97	3 40/43	13.45	3 D	A 18395	A 18367
AY17871	2 5/8	69.9	6 1/2	8 1/4	65/97	3 40/43	19.00	3 D	A 18395	A 18367
AY17872	3 1/8	58.2	6 1/2	8 1/4	65/97	3 40/43	15.00	3 D	A 18395	A 18367

Part No.	Size (mm)	Kv	A (mm)	B (mm)	C (mm)	D (mm)	Wt. (kg)	Motor Hub Series Design	Actuator Kits	Heater
AY17861	13	3.36	103	94	NA	68		1 A	A 18390	—
AY17862	16	3.95	103	94	NA	68	1.08	1 A	A 18390	—
AY17863	19	10.15	111	94	NA	68		1 B	A 18392	—
AY17864	22	9.30	111	94	NA	68	1.47	1 B	A 18392	—
AY17865	29	16.46	124	146	17	81	4.08	2 C	A 18394	A 18366
A 17810	35	26.53	145	146	17	81	4.99	2 D	A 18396	A 18366
A 17811	41	38.13	157	146	17	81	5.44	3 D	A 18396	A 18367
AY17868	54	65.08	165	210	17	100	6.10	3 D	A 18395	A 18367
AY17871	67	59.62	165	210	17	100	8.62	3 D	A 18395	A 18367
AY17872	79	49.64	165	210	17	100	6.80	3 D	A 18395	A 18367

* Reduced Port
 Prefixed for Actuator Options:
 AWS = Straight Actuated Ball Valve with Auxiliary Switch
 AYS = 3 Way Actuated Ball Valve with Auxiliary Switch
 AS = Actuator kit with Auxiliary Switch

Hub References:
 A = A 18389
 B = A 18391
 C = A 18393
 D = A 18368
 E = A 18400

For tonnage calculations, see page 6.



CYCLEMASTER® Actuated Ball Valve Tonnage

VALVES

PROTECTION
DEVICES

BRASS FITTINGS &
FLANGES

FABRICATION &
ASSEMBLIES

TERMS/POLICIES

CROSS REFERENCE

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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 psig

CYCLEMASTER® Actuated Ball Valves

Part No.	Nominal Liquid Capacity (tons)			Suction Vapor Capacity (tons)			Nominal Hot Gas Capacity (tons)		
	R134a	R404a	R410a	R134a	R404a	R410a	R134a	R404a	R410a
AW17861	18.25	12.63	19.63	2.00	1.50	2.33	3.00	2.86	4.33
AW17862	33.00	22.80	35.44	2.67	2.83	4.25	5.38	5.17	7.86
AW17863	55.78	38.57	60.00	4.50	4.78	7.22	9.00	8.75	13.25
AW17864	86.25	59.67	92.71	7.00	7.40	11.17	14.00	13.50	20.50
AW17865	166.44	115.00	179.00	13.40	14.25	21.56	27.11	26.00	39.60
AW17866	249.00	172.14	267.60	20.00	21.33	32.22	40.50	39.00	59.25
AW17867	662.38	458.00	712.00	53.33	56.80	85.75	107.83	103.63	157.63
AW17868	858.25	593.50	922.57	69.00	73.60	111.11	139.71	134.25	204.25
AW17869									
AW17870									
AW17871	544.00	376.22	584.86	43.80	46.67	70.44	88.57	85.13	129.50
AW17872	376.71	260.50	405.00	30.33	32.29	48.78	61.33	59.00	89.67

CYCLEMASTER® 3-Way Actuated Ball Valves

Part No.	Nominal Liquid Capacity (tons)			Suction Vapor Capacity (tons)			Nominal Hot Gas Capacity (tons)		
	R134a	R404a	R410a	R134a	R404a	R410a	R134a	R404a	R410a
AY17861	13.63	9.42	14.65	1.1	1.17	1.76	2.22	2.13	3.24
AY17862	35.03	24.22	37.65	2.82	3	4.54	5.7	5.48	8.34
AY17863	32.05	22.17	34.46	2.58	2.75	4.15	5.22	5.01	7.63
AY17864	56.9	39.34	61.16	4.58	4.88	7.37	9.26	8.9	13.54
AY17865	91.42	63.22	98.27	7.36	7.84	11.84	14.88	14.3	21.76
AY17866	131.54	90.96	141.4	10.59	11.28	17.03	21.41	20.58	31.3
AY17867	224.64	155.34	241.47	18.09	19.26	29.08	36.57	35.14	53.46
AY17868	205.59	142.17	221	16.55	17.63	26.62	33.47	32.16	48.93
AY17871	205.59	142.17	221	16.55	17.63	26.62	33.47	32.16	48.93
AY17872	171.27	118.44	184.11	13.79	14.69	22.17	27.88	26.79	40.76



CYCLEMASTER® Ball Valve Cross Reference

CYCLEMASTER® BALL VALVES, STRAIGHT

Current Part Number	BALLMASTER	CYCLEMASTER	Size
API7859	A 17501	A 17859	1/4
API7860	A 17260	A 17860	3/8
API7861	A 17261	A 17861	1/2
API7862	A 17262	A 17862	5/8
API7863	A 17263	A 17863	7/8
A 17864	A 17264		7/8
A 17865	A 17265		1 1/8
A 17866	A 17266		1 3/8
A 17867	A 17267		1 5/8
A 17868	A 17268		2 1/8
A 17871*	A 17269		2 5/8
A 17870			3 1/8
A 17869	A 17786		2 5/8
A 17872*	A 17270		3 1/8

CYCLEMASTER® BALL VALVES, STRAIGHT WITH ACCESS

Current Part Number	BALLMASTER	CYCLEMASTER	Size
AQI7860	A 17460	A 17563, ACI7860	3/8
AQI7861	A 17461	A 17564, ACI7861	1/2
AQI7862	A 17464	A 17565, ACI7862	5/8
ACI7863	A 17463		3/4
ACI7864	A 17464	A 17567, ACI7864	7/8
ACI7865	A 17465	A 17568	1 1/8
ACI7866	A 17466	A 17569	1 3/8
ACI7867	A 17467	A 17570	1 5/8
ACI7868	A 17468	A 17541	2 1/8
ACI7871*	A 17469	A 17572	2 5/8
ACI7870			3 1/8
ACI7869	A 17787		2 5/8
ACI7872*	A 17470	A 17573	3 1/8

CYCLEMASTER® BALL VALVES, 3-WAY WITH ACCESS

Current Part Number	BALLMASTER	CYCLEMASTER	Size
AUI7860		A 17539	3/8
AUI7861		A 17540	1/2
AUI7862		A 17541	5/8
AUI7863	A 17464	A 17567, ACI7864	3/4
AUI7864		A 17543	7/8
AUI7865		A 17544	1 1/8
AUI7866		A 17545	1 3/8
AUI7867		A 17546	1 5/8
AUI7868		A 17547	2 1/8
AUI7871*		A 17548	2 5/8
AUI7872*		A 17549	3 1/8

BALL VALVE SEAL CAP

Size	Body Number	One-Piece	Two-Piece	Retrofit Assembly
1/4	F 35222, F 36700, N 02351	A 17965	A 17842	A 18351
3/8	F 35222, F 36700, N 02351	A 17965	A 17842	A 18351
1/2	F 35222, F 36700, N 02351	A 17965	A 17842	A 18351
5/8	F 35222, F 36700, N 02351	A 17965	A 17842	A 18351
3/4	F 35223, F 36701, N 02352	A 17866	A 17843	A 18352
7/8	F 35223, F 36701, N 02352	A 17866	A 17843	A 18352
1 1/8	F 35224, F 36702, N 02353	A 17967	A 17844	A 18353
1 3/8	F 35162, N 02354	A 17968	A 17845	A 18354
1 5/8	F 35949, F 36703	A 17967	A 17844	A 18353
2 1/8	F 35160, F 35950, F 36704, N 02355	A 17968	A 17845	A 18354
2 1/8	F 35161, N 02356	A 18399	A 17846	A 18355
2 1/8	F 35951, F 36595, F 36705	A 17968	A 17845	A 18354
2 5/8	F 35755, F 36706	A 18399	A 17846	A 18355
3 1/8	F 35952, F 36707	A 18399	A 17846	A 18355
2 5/8*	F 35161, N 02356	A 18399	A 17846	A 18355
2 5/8*	F 35951, F 36705	A 17968	A 17845	A 18354
3 1/8*	F 35161, N 02356	A 18399	A 17846	A 18355
3 1/8*	F 35951, F 36595, F 36705	A 17968	A 17845	A 18354

* Reduced port

CYCLEMASTER® BALL VALVES, ACTUATED STRAIGHT

Current Part Number	BALLMASTER	CYCLEMASTER	Size
AWI7861		A 17793	1/2
AWI7862		A 17794	5/8
AWI7863		A 17795	3/4
AWI7864		A 17796	7/8
AWI7865		A 17797	1 1/8
AWI7866		A 17798	1 3/8
AWI7867		A 17799	1 5/8
AWI7868		A 17800	2 1/8
AWI7871*		A 17801	2 5/8
AWI7872*		A 17802	3 1/8

CYCLEMASTER® BALL VALVES, ACTUATED 3-WAY

Current Part Number	BALLMASTER	CYCLEMASTER	Size
AYI7861		A 17805	1/2
AYI7862		A 17806	5/8
AYI7863		A 17807	3/4
AYI7864		A 17808	7/8
AYI7865		A 17809	1 1/8
AYI7866		A 17810	1 3/8
AYI7867		A 17811	1 5/8
AYI7868		A 17812	2 1/8
AYI7871*		A 17813	2 5/8
AYI7872*		A 17814	3 1/8

CYCLEMASTER® BALL VALVES, ACTUATED KITS

Current Sealed Hub Design	Obsolete Hub Design
A 18390	B 34437
A 18392	B 34438
A 18394	B 34439
A 18396	B 34440
A 18395	B 34441
A 18395	B 34442

CYCLEMASTER® BALL VALVES, ACTUATED KITS

Current Sealed Hub Design	Obsolete Hub Design
A 18390	B 34437
A 18392	B 34438
A 18394	B 34439
A 18396	B 34440
A 18395	B 34441
A 18395	B 34442

ACTUATED BALL VALVE COMPONENT

Size	Body Number	Motor Series	Hub Kit	Actuator Kit**
1/2	F 35222, F 36700, N 2351	1	A 18389	A 18390
5/8	F 35222, F 36700, N 2351	1	A 18389	A 18390
3/4	F 35223, F 36701, N 2352	1	A 18391	A 18392
7/8	F 35223, F 36701, N 2352	1	A 18391	A 18392
1 1/8	F 35224, F 36702, N 2353	2	A 18393	A 18394
1 3/8	F 35162, N 2354	2	A 18368	A 18396
1 5/8	F 35949, F 36703	2	A 18393	A 18394
1 5/8	F 35160, F 35950, F 36704, N 2355	2	A 18368	A 18396
2 1/8	F 35161, N 2356	3	A 18402	
2 1/8	F 35951, F 36595, F 36705	3	A 18368	A 18395
2 5/8	F 35755, F 36706	4	A 18400	A 18401
3 1/8	F 35952, F 36707	4	A 18400	A 18401
2 5/8*	F 35161, N 2356	3	A 18402	
2 5/8*	F 35951, F 36705	3	A 18368	A 18395
3 1/8*	F 35161, N 2356	3	A 18402	
3 1/8*	F 35951, F 36595, F 36705	3	A 18368	A 18395

* Reduced Port

**Actuator Kit includes motor and hub assembly

O-Ring Seal Kits***

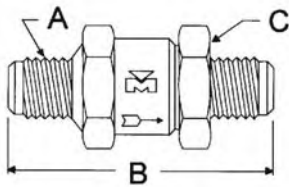
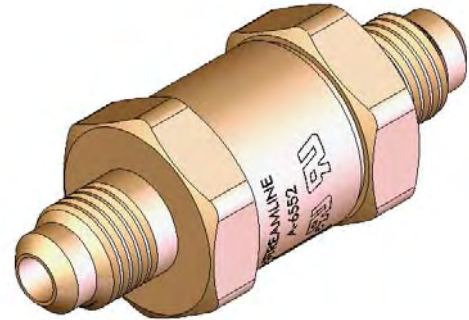
Size	Part Number
1/2 - 7/8	A 18403
1 1/8 - 3 1/8	A 18404

***Not intended to be used on an old style hub assembly to seal off stem leaks.

Check Valves

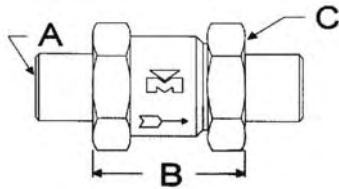
Look for these Mueller advantages:

- Maximum working pressure (PS): 700 psig, 48 bar
- Working temperature range (TS): -40°F/300°F, -40°C/149°C
- Compatible with all CFC, HCFC and HFC refrigerants and oils
- UL/cUL Recognized, CE Certified
- RoHS Compliant
- Available in solder and flare connections
- Neoprene seat for positive isolation and pulsation dampening
- Stainless steel spring available in multiple settings for customized system requirements
- Enhanced internal design for maximum flow and minimum pressure drop



Flare to Flare

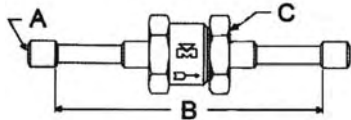
Part No.	Size A	B (in)	B (mm)	C (in)	C (mm)	Wt (lb)	Wt (kg)
A 15620	1/4	2 3/16	56	1 3/16 Hex	21 Hex	0.15	0.06
A 15621	3/8	2 13/32	61	1 3/16 Hex	21 Hex	0.18	0.08
A 15622	1/2	3	76	1 1/4 Oct	32 Hex	0.43	0.20
A 15623	5/8	3 5/16	84	1 1/4 Oct	32 Hex	0.51	0.23



Solder to Solder

Part No.	Size A (in)	Size A (mm)	B (in)	B (mm)	C (in)	C (mm)	Wt (lb)	Wt (kg)
A 15628	1/4	6	1 3/16	30	1 3/16 Hex	21 Hex	0.13	0.06
A 15629	3/8	10	1 5/32	29	1 3/16 Hex	21 Hex	0.13	0.06
A 15630	1/2	13	1 7/16	37	1 1/4 Oct	32 Hex	0.37	0.17
A 15631	5/8	16	1 7/16	37	1 1/4 Oct	32 Hex	0.36	0.16

Shipped loosely assembled



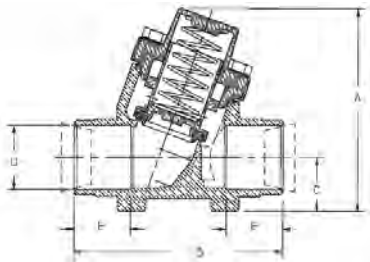
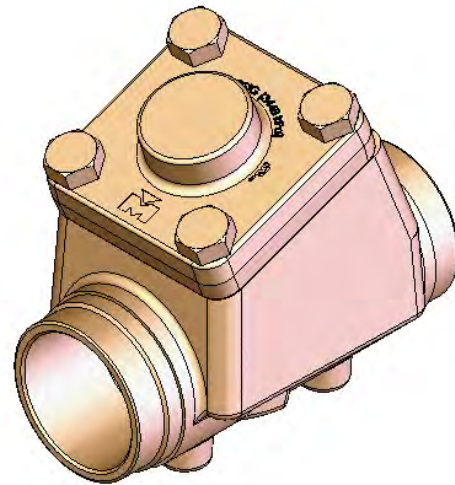
Solder to Solder, Extended Ends

Part No.	Size A (in)	Size A (mm)	B (in)	B (mm)	C (in)	C (mm)	Wt (lb)	Wt (kg)
A 15632	1/4	6	4 7/16	113	1 3/16 Hex	21 Hex	0.16	0.07
A 15633	3/8	10	4 9/16	116	1 3/16 Hex	21 Hex	0.18	0.08
A 15634	1/2	13	4 29/32	125	1 1/4 Oct	32 Hex	0.43	0.20
A 15635	5/8	16	5 13/64	132	1 1/4 Oct	32 Hex	0.48	0.22

Four-Bolt Check Valves

Look for these Mueller advantages:

- Maximum working pressure (PS): 700 psig, 48 bar
- Working temperature range (TS): -40°F/300°F, -40°C/149°C
- Compatible with all CFC, HCFC and HFC refrigerants and oils
- UL/cUL Recognized, CE Certified
- RoHS Compliant
- 100% tested
- Design features easy removal and reassembly of internal components
- Forged brass body exceeds the most stringent quality standards in the industry
- Horizontal or vertical installation (Not to be installed with bonnet facing down)
- "Y" type design provides minimal pressure drop and increased flow capacity
- Non-asbestos gasket material ensures seal integrity, while a heat-stabilized Teflon seat provides positive seal across wide temperature ranges
- Back-pressure shutoff at low pressure differentials



Part No.	Size D (in)	Cv	A (in)	B (in)	C (in)	E (in)	Wt. (lb)	Pressure to open	Rec. Bolt Torques (ft-lb)	Kit**	Replacement Components Springs Gasket
B 34235	7/8	9.2	3 19/32	3 11/16	31/32	15/16	2.45	<1 psi	8 - 15	A 17986	P 35656, 10 lb P 35859, 30 lb P 35656, 10 lb P 35708
B 34236	1 1/8	11	3 19/32	3 11/16	31/32	1	2.27	<1 psi	8 - 15	A 17986	P 35656, 10 lb P 35708
B 34237	1 3/8	18.5	4 9/16	4 3/4	1 5/16	1 1/16	5.23	2 psi	10 - 20	A 17987	P 35657, 10 lb P 36305, 20 lb P 35691
B 34238	1 5/8	20.4	4 9/16	4 3/4	1 5/16	1 1/16	4.65	2 psi	10 - 20	A 17987	P 35657, 10 lb P 36305, 20 lb P 35691
B 34239	2 1/8	36	5 7/8	6 3/8	1 11/16	1 1/2	12.31	2 psi	10 - 20	A 17988	P 36544, 40 lb P 35721
B 34240	2 5/8	86.1	8	8 7/8	2	1 7/8	31.00	2 psi	15 - 25	A 18050	* P 36041
B 34241	3 1/8	*	8	8 7/8	2	1 7/8	35.00	2 psi	15 - 25	A 18050	* P 36041

Part No.	Size D (mm)	Kv	A (mm)	B (mm)	C (mm)	E (mm)	Wt. (kg)	Pressure to open	Rec. Bolt Torques (N-m)	Kit**	Replacement Components Springs Gasket
B 34235	22	7.85	91	94	25	24	1.11	<.07 bar	11 - 20	A 17986	P 35656, 10 lb P 35859, 30 lb P 35656, 10 lb P 35708
B 34236	29	9.38	91	94	25	25	1.03	<.07 bar	11 - 20	A 17986	P 35656, 10 lb P 35708
B 34237	35	15.78	116	121	33	27	2.37	.14 bar	14 - 27	A 17987	P 35657, 10 lb P 36305, 20 lb P 35691
B 34238	41	17.40	116	121	33	27	2.11	.14 bar	14 - 27	A 17987	P 35657, 10 lb P 36305, 20 lb P 35691
B 34239	54	30.71	149	225	43	38	5.58	.14 bar	14 - 27	A 17988	P 36544, 40 lb P 35721
B 34240	67	73.44	203	225	51	48	14.06	.14 bar	20 - 34	A 18050	* P 36041
B 34241	79	*	203	*	51	48	15.88	.14 bar	20 - 34	A 18050	* P 36041

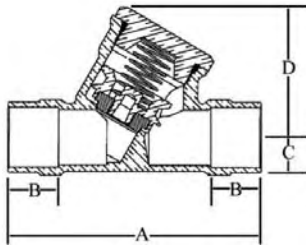
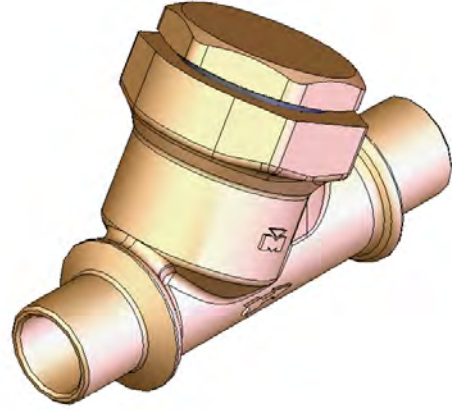
* Consult Factory

** Replacement kit includes seat holder subassembly, cover gasket and 2 lb spring.

Screw Bonnet Check Valve

Look for these Mueller advantages:

- Maximum working pressure (PS): 700 psig, 48 bar
- Working temperature range (TS): -40°F/300°F, -40°C/149°C
- Compatible with all CFC, HCFC and HFC refrigerants and oils
- UL/cUL Recognized, CE Certified
- RoHS Compliant
- 100% tested
- Design features easy removal and reassembly of internal components
- Forged brass body exceeds the most stringent quality standards in the industry
- Designed to provide minimal pressure drop and increased flow capacity
- Teflon gasket



ODS x ODS

Part No.	Size (in)	Cv	A (in)	B (in)	C (in)	D (in)	Wt. (lb)	Pressure to open	Rec. Bonne Torques (ft-lb)	Replacement Springs	
										5 lb	10 lb
A 17953	1/4	0.50	3	5/16	7/16	1 5/8	0.58	<1 psi	14-16	P 36542	P 36543
A 17954	3/8	1.42	3	7/16	7/16	1 5/8	0.58	<1 psi	14-16	P 36542	P 36543
A 17955	1/2	2.03	3	9/16	7/16	1 5/8	0.53	<1 psi	14-16	P 36542	P 36543
A 17956	5/8	8.10	3 5/16	1 1/16	7/16	1 5/8	0.53	<1 psi	14-16	P 36542	P 36543
A 17957	3/4	6.54	3 3/4	3/4	5/8	2	0.92	<1 psi	14-16	*	*
A 17958	7/8	2.50	3 3/4	3/4	5/8	2	0.87	<1 psi	14-16	*	*
B 34873	5/8	5.10	3 3/4	3/4	5/8	2		<1 psi	14-16	*	*

Part No.	Size (mm)	Kv	A (mm)	B (mm)	C (mm)	D (mm)	Wt. (kg)	Pressure to open	Rec. Bonnet Torques (N-m)	Replacement Springs	
										5 lb	10 lb
A 17953	6	0.43	76	8	11	41	0.26	<.07 bar	19 - 22	P 36542	P 36543
A 17954	10	1.21	76	11	11	41	0.26	<.07 bar	19 - 22	P 36542	P 36543
A 17955	13	1.73	76	14	11	41	0.24	<.07 bar	19 - 22	P 36542	P 36543
A 17956	16	6.91	84	17	11	41	0.24	<.07 bar	19 - 22	P 36542	P 36543
A 17957	19	5.58	95	19	16	51	0.42	<.07 bar	19 - 22	*	*
A 17958	22	2.13	95	19	16	51	0.39	<.07 bar	19 - 22	*	*
B 34873	16	4.35	95	19	16	51		<.07 bar	19 - 22	*	*

Extended End

Part No.	Size (in)	Cv	A (in)	B (in)	C (in)	D (in)	Wt. (lb)	Pressure to open	Rec. Bonnett Torques (ft-lb)	Replacement Springs	
										5 lb	10 lb
AT17953	1/4	*	6 1/4	5/16	7/16	1 5/8	0.61	<1 psi	14-16	P 36542	P 36543
AT17954	3/8	*	6 1/8	3/8	7/16	1 5/8	0.62	<1 psi	14-16	P 36542	P 36543
AT17955	1/2	*	5 15/16	3/8	7/16	1 5/8	0.59	<1 psi	14-16	P 36542	P 36543
AT17956	5/8	*	6 13/16	1/2	7/16	1 5/8	0.66	<1 psi	14-16	P 36542	P 36543
AT17958	7/8	*	7 3/4	3/4	5/8	2	1.09	<1 psi	14-16	*	*

Part No.	Size (mm)	Kv	A (cm)	B (cm)	C (cm)	D (cm)	Wt. (kg)	Pressure to open	Rec. Bonnett Torques (N-m)	Replacement Springs	
										5 lb	10 lb
AT17953	6	*	159	8	11	41	0.28	<.07 bar	19 - 22	P 36542	P 36543
AT17954	10	*	156	10	11	41	0.28	<.07 bar	19 - 22	P 36542	P 36543
AT17955	13	*	151	10	11	41	0.27	<.07 bar	19 - 22	P 36542	P 36543
AT17956	16	*	173	13	11	41	0.30	<.07 bar	19 - 22	P 36542	P 36543
AT17958	22	*	197	19	16	51	0.49	<.07 bar	19 - 22	*	*

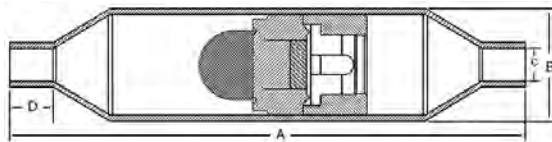
* Consult Factory

Prefixed for Spring Options: AG = Includes 5 lb spring, AH = Includes 10 lb spring

Magnetic Check Valves

Look for these Mueller advantages:

- Maximum working pressure (PS): 700 psig, 48 bar
- Working temperature range (TS): -40°F/300°F, -40°C/149°C
- Compatible with all CFC, HCFC and HFC refrigerants and oils
- UL/cUL Recognized, CE Certified
- RoHS Compliant
- Built-in 30 mesh stainless steel screen
- Internal components installed with DuraForm Technology
- Mechanically formed solder cup stops for easy installation
- Flexible for installation in vertical or horizontal position
- Hermetically formed solid copper body assures zero leak potential



Part No.	CMV Series	Size (C, in)	A (in)	B (in)	D (in)	Wt. (lb)	MWP (psi)	Nominal Tonnage	
								40°F (4°C) @ 1 psi R-22 Suction	R-22 Liquid
A 17934	CMV-4S	1/4	4	7/8	0.31	0.20	800	0.4	2.6
A 17935	CMV-6S	3/8	4	7/8	0.31	0.21	800	0.6	3.2
A 17936	CMV-8S	1/2	5 1/8	1 1/8	0.38	0.35	700	1.2	9.4
A 17937	CMV-10S	5/8	5 1/8	1 1/8	0.50	0.34	700	1.6	13.0
A 17938	CMV-12S	3/4	7	1 5/8	0.62	0.87	700	3.3	27.0
A 17939	CMV-14S	7/8	7	1 5/8	0.75	0.59	700	3.8	29.0
A 17940	CMV-18S	1 1/8	8 3/8	2 1/8	0.91	1.61	700	6.0	51.0
A 17941	CMV-22S	1 3/8	9 3/8	2 5/8	0.97	2.74	700	9.5	79.0
A 17942	CMV-26S	1 5/8	10 1/2	3 1/8	1.09	3.91	700	17.0	102.0
A 17943	CMV-34S	2 1/8	12	3 5/8	1.34	6.00	700	30.0	213.0
A 17944	CMV-42S	2 5/8	13	4 1/8	1.47	7.00	700	50.0	375.0
A 17981	CMV-50S	3 1/8	13	4 1/8	1.66	7.43	650	59.0	405.0

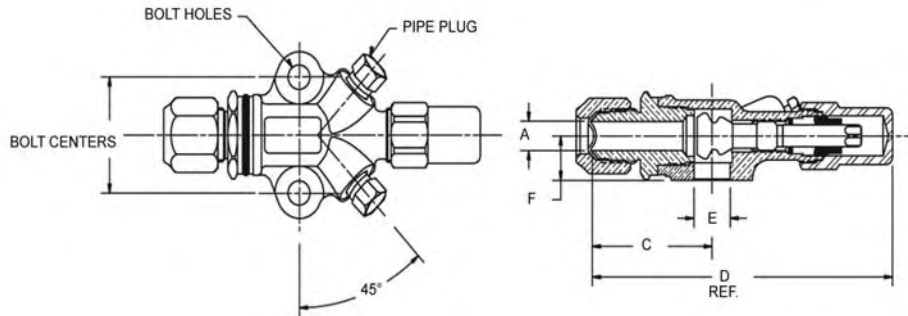
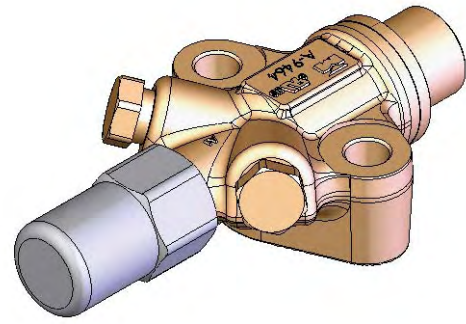
Part No.	CMV Series	Size (C, mm)	A (mm)	B (mm)	D (mm)	Wt. (kg)	MWP (bar)	Nominal Tonnage	
								40°F (4°C) @ 1 psi R-22 Suction	R-22 Liquid
A 17934	CMV-4S	6	102	22	8	0.09	55	0.4	2.6
A 17935	CMV-6S	10	102	22	8	0.10	55	0.6	3.2
A 17936	CMV-8S	13	130	29	10	0.16	48	1.2	9.4
A 17937	CMV-10S	16	130	29	13	0.15	48	1.6	13.0
A 17938	CMV-12S	19	178	41	16	0.39	48	3.3	27.0
A 17939	CMV-14S	22	178	41	19	0.27	48	3.8	29.0
A 17940	CMV-18S	29	213	54	23	0.73	48	6.0	51.0
A 17941	CMV-22S	35	238	67	25	1.24	48	9.5	79.0
A 17942	CMV-26S	41	267	79	28	1.77	48	17.0	102.0
A 17943	CMV-34S	54	305	92	34	2.72	48	30.0	213.0
A 17944	CMV-42S	67	330	105	37	3.18	48	50.0	375.0
A 17981	CMV-50S	79	330	105	42	3.37	45	59.0	405.0



Compressor Valves, Brass Double Port

Look for these Mueller advantages:

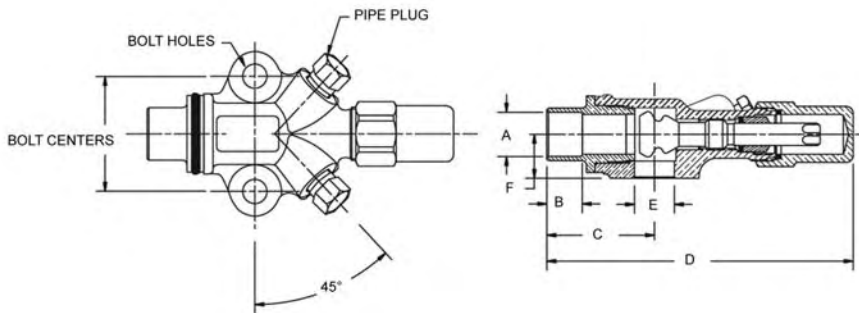
- Maximum working pressure (PS): 700 psig, 48 bar
- Working temperature range (TS): -40°F/300°F, -40°C/149°C
- Compatible with all CFC, HCFC and HFC refrigerants and oils
- UL/cUL Recognized, CE Certified
- RoHS Compliant
- 100% tested
- Asbestos-free valve packing
- Valve openings designed for maximum flow and minimum pressure drop



45° Flare Type, Steel Cap

Valve	Kit	A (in)	C (in)	D (in)	E (in)	F (in)	Bolt Centers(in)	Dia Bolt Holes (in)	Pipe Plug Size (in)	Flange Thickness(in)	Valve Wt (lb)	Kit Wt (lb)
A 16302	A 17518	3/8	1 3/4	4 7/16	9/16	5/8	1 5/8	11/32	1/8	7/8	1.2	1.24
A 16303	A 17519	1/2	1 7/8	4 11/16	9/16	5/8	1 5/8	11/32	1/8	7/8	1.17	1.2
A 16304	A 17520	5/8	2	4 13/16	9/16	5/8	1 5/8	11/32	1/8	7/8	1.23	1.27

Valve	Kit	A (mm)	C (mm)	D (mm)	E (mm)	F (mm)	Bolt Centers(mm)	Dia Bolt Holes (mm)	Pipe Plug Size (in)	Flange Thickness(mm)	Valve Wt (kg)	Kit Wt (kg)
A 16302	A 17518	10	44	113	14	16	41	9	1/8	22	0.54	0.56
A 16303	A 17519	13	48	119	14	16	41	9	1/8	22	0.53	0.54
A 16304	A 17520	16	51	122	14	16	41	9	1/8	22	0.56	0.58



Solder Type, Steel Cap

Valve	Kit	A (in)	B (in)	C (in)	D (in)	E (in)	F (in)	Bolt Centers (in)	Dia Bolt Holes (in)	Pipe Plug Size (in)	Flange Thickness (in)	Valve Wt (lb)	Kit Wt (lb)
A 16307	A 17510	3/8	5/16	1 1/4	4 5/34	9/16	5/8	1 5/8	11/32	1/8	7/8	0.69	0.73
A 16308	A 17511	1/2	3/8	1 13/32	4 13/64	9/16	5/8	1 5/8	11/32	1/8	7/8	0.86	0.89
A 16309	A 17512	5/8	1/2	1 1/2	4 1/2	9/16	5/8	1 5/8	11/32	1/8	7/8	0.88	0.92
A 16309	A 17531	5/8	1/2	1 1/2	4 1/2	9/16	5/8	1 5/8	11/32	1/8	7/8	0.88	0.92

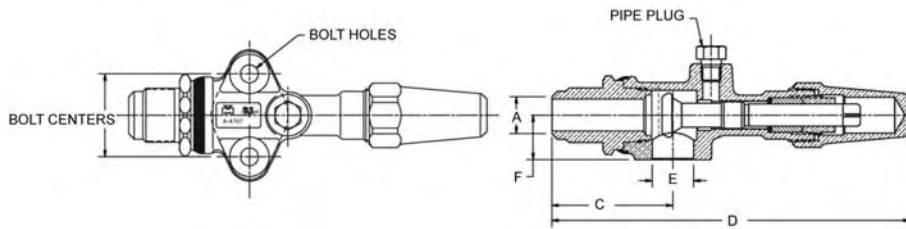
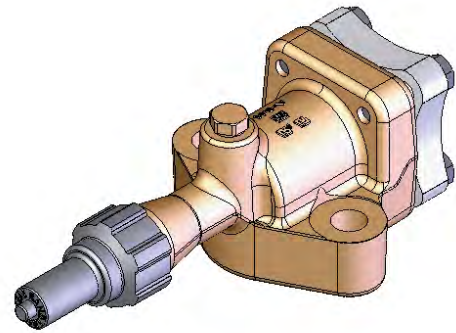
Valve	Kit	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	Bolt Centers(mm)	Dia Bolt Holes(mm)	Pipe Plug Size (in)	Flange Thickness (mm)	Valve Wt (kg)	Kit Wt (kg)
A 16307	A 17510	10	8	32	105	14	16	41	9	1/8	22	0.31	0.33
A 16308	A 17511	13	10	36	107	14	16	41	9	1/8	22	0.39	0.4
A 16309	A 17512	16	13	38	114	14	16	41	9	1/8	22	0.4	0.42
A 16309	A 17531	16	13	38	114	14	16	41	9	1/8	22	0.4	0.42

For Torque To Seal data, see page 18-19

Compressor Valves, Brass Straight Port

Look for these Mueller advantages:

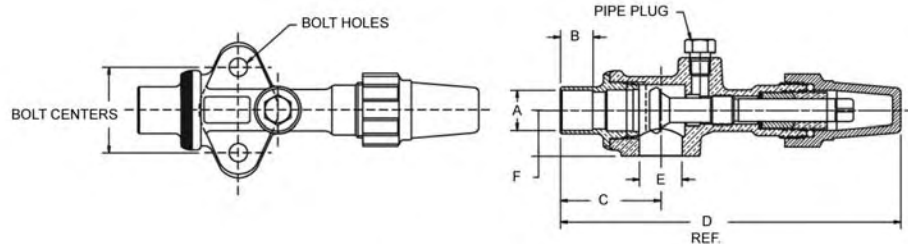
- Maximum working pressure (PS): 700 psig, 48 bar
- Working temperature range (TS): -40°F/300°F, -40°C/149°C
- Compatible with all CFC, HCFC and HFC refrigerants and oils
- UL/cUL Recognized, CE Certified
- RoHS Compliant
- 100% tested
- Asbestos-free valve packing
- Valve openings designed for maximum flow and minimum pressure drop



45° Flare Type, Plastic Cap

Valve	A (in)	C (in)	D (in)	E (in)	F (in)	Bolt Centers (in)	Dia Bolt Holes (in)	Pipe Plug Size (in)	Flange Thickness (in)	Valve Wt (lb)
A 13166	3/4	2 3/8	7	13/16	7/8	1 5/8	1 1/32	1/8	1 1/4	1.78

Valve	A (mm)	C (mm)	D (mm)	E (mm)	F (mm)	Bolt Centers (mm)	Dia Bolt Holes (mm)	Pipe Plug Size (in)	Flange Thickness (mm)	Valve Wt (kg)
A 13166	19	60	178	21	22	41	9	1/8	32	0.81



Solder Type, Plastic Cap

Valve	Kit	A (in)	B (in)	C (in)	D (in)	E (in)	F (in)	Bolt Centers(in)	Dia Bolt Holes (in)	Pipe Plug Size (in)	Flange Thickness (in)	Valve Wt (lb)	Kit Wt(lb)
A 16310	A 17517	3/4	5/8	1 29/32	6 9/16	13/16	7/8	1 5/8	1 1/32	1/8	1 21/64	1.64	1.69
A 16311	A 17515	7/8	3/4	1 31/32	6 9/16	13/16	7/8	1 5/8	1 1/32	1/8	1 21/64	1.63	1.67
A 16317	A 17528	7/8	3/4	1 31/32	6 1/2	13/16	7/8	1 5/8	1 1/32	1/8	1 21/64	1.63	1.68
B 32197	A 17529	7/8	3/4	1 31/32	6 9/16	13/16	7/8	1 3/4	1 1/32	1/8	1 21/64	1.42	1.69
A 15500		1 1/8	29/32	2 1/16	6 9/16	13/16	7/8	1 5/8	1 1/32	1/8	1 21/64	1.66	
A 16312	A 17516	1 1/8	29/32	2 1/16	6 9/16	13/16	7/8	1 5/8	1 1/32	1/8	1 21/64	1.66	1.71
B 33367	A 17530	1 1/8	29/32	2 17/64	6 9/16	1 1/8	7/8	1 3/4	1 1/32	1/4	1 21/64	1.57	1.63

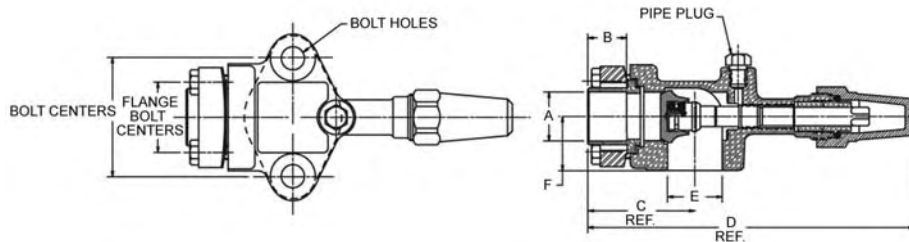
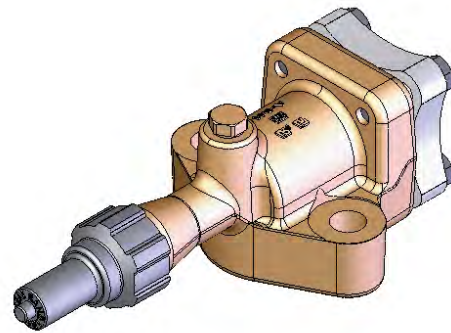
Valve	Kit	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	Bolt Centers(mm)	Dia Bolt Holes (mm)	Pipe Plug Size (in)	Flange Thickness (mm)	Valve Wt (kg)	Kit Wt(kg)
A 16310	A 17517	19	16	48	167	21	22	41	9	1/8	34	0.74	0.77
A 16311	A 17515	22	19	50	167	21	22	41	9	1/8	34	0.74	0.76
A 16317	A 17528	22	19	50	165	21	22	41	9	1/8	34	0.74	0.76
B 32197	A 17529	22	19	50	167	21	22	44	9	1/8	34	0.64	0.77
A 15500		29	23	52	167	21	22	41	9	1/8	34	0.75	
A 16312	A 17516	29	23	52	167	21	22	41	9	1/8	34	0.75	0.78
B 33367	A 17530	29	23	58	167	29	22	44	9	1/8	34	0.71	0.74

For Torque To Seal data, see page 18-19

Compressor Valves, Brass Miscellaneous

Look for these Mueller advantages:

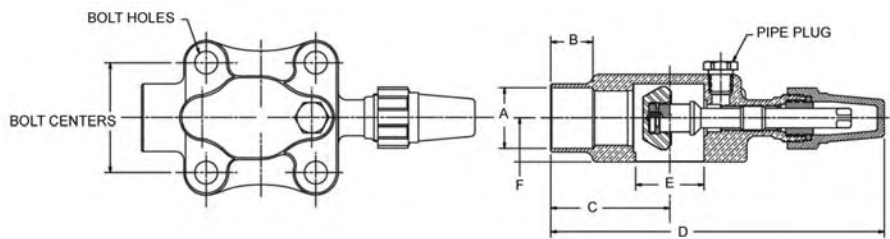
- Maximum working pressure (PS): 700 psig, 48 bar
- Working temperature range (TS): -40°F/300°F, -40°C/149°C
- Compatible with all CFC, HCFC and HFC refrigerants and oils
- UL/cUL Recognized, CE Certified
- RoHS Compliant
- 100% tested
- Asbestos-free valve packing
- Valve openings designed for maximum flow and minimum pressure drop



Flange Union, Solder Type, Brass Cap

Valve	Kit	A (in)	B (in)	C (in)	D (in)	E (in)	F (in)	Bolt Centers	Dia Bolt Holes	Pipe Plug Size (in)	Flange Bolt Centers	Flange Thickness	Valve Wt (lb)	Kit Wt (lb)
A 16313		3/4	5/8	2 5/16	7 11/32	1 1/4	1 1/4	2 3/4	17/32	1/8	1 5/8	1	3.93	
A 16314	A 17527	7/8	3/4	2 5/16	7 11/32	1 1/4	1 1/4	2 3/4	17/32	1/8	1 5/8	1	3.9	4.05
A 16315	A 17525	1 1/8	29/32	2 15/32	7 1/2	1 1/4	1 1/4	2 3/4	17/32	1/8	1 5/8	1	3.88	4.03
A 16316	A 17526	1 3/8	31/32	2 15/32	7 1/2	1 1/4	1 1/4	2 3/4	17/32	1/8	1 5/8	1	3.66	3.8

Valve	Kit	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	Bolt Centers	Dia Bolt Holes	Pipe Plug Size (in)	Flange Bolt Centers	Flange Thickness	Valve Wt (kg)	Kit Wt (kg)
A 16313		19	16	59	187	32	32	70	13	1/8	41	25	1.78	
A 16314	A 17527	22	19	59	187	32	32	70	13	1/8	41	25	1.77	1.84
A 16315	A 17525	29	23	63	191	32	32	70	13	1/8	41	25	1.76	1.83
A 16316	A 17526	41	25	63	191	32	32	70	13	1/8	41	25	1.66	1.72



Four-Bolt Mounting Style, Solder Type, Flat Gasket Surface, Plastic Cap

Valve	Kit	A (in)	B (in)	C (in)	D (in)	E (in)	F (in)	Bolt Centers (in)	Dia Bolt Holes (in)	Pipe Plug Size (in)	Valve Wt (lb)	Kit Wt (lb)
B 32807	A 17532	1 1/8	29/32	2 23/32	7 5/8	1 9/16	1	2 1/2	1/32	1/4	3.88	4.03
B 32808	A 17533	1 3/8	31/32	2 23/32	7 5/8	1 9/16	1	2 1/2	17/32	1/4	3.66	3.8
B 32930	A 17534	1 5/8	1 3/32	2 7/8	7 5/8	1 9/16	1 1/32	2 1/2	17/32	1/4	3.9	4.05

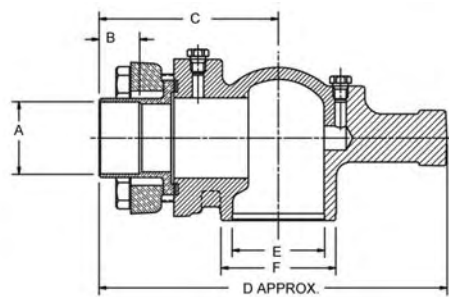
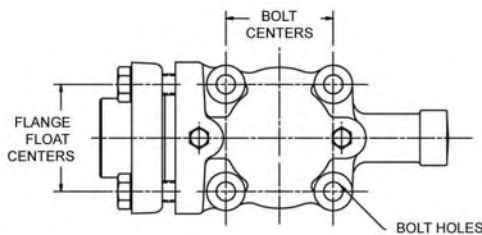
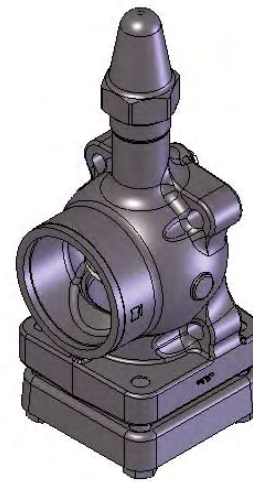
Valve	Kit	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	Bolt Centers (mm)	Dia Bolt Holes (mm)	Pipe Plug Size (in)	Valve Wt (kg)	Kit Wt (kg)
B 32807	A 17532	29	23	69	194	40	25	64	26	1/4	1.76	1.83
B 32808	A 17533	35	25	69	194	40	25	64	13	1/4	1.66	1.72
B 32930	A 17534	41	28	73	194	40	26	64	13	1/4	1.77	1.84

For Torque To Seal data, see page 18-19

Compressor Valves, Cast Iron Four Bolt

Look for these Mueller advantages:

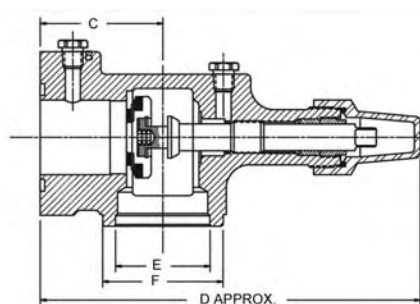
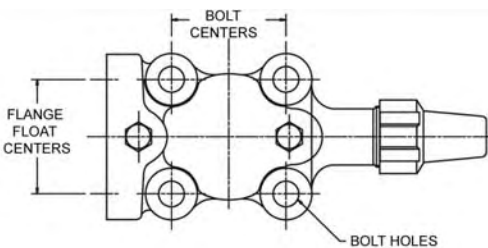
- Maximum working pressure (PS): 700 psig, 48 bar
- Working temperature range (TS): -40°F/300°F, -40°C/149°C
- Compatible with all CFC, HCFC and HFC refrigerants and oils
- UL/cUL Recognized, CE Certified
- RoHS Compliant
- 100% tested
- Asbestos-free valve packing
- Valve openings designed for maximum flow and minimum pressure drop



Flange

Valve	A (in)	B (in)	C (in)	D (in)	E (in)	F (in)	Bolt Centers	Dia Bolt Holes	Pipe Plug Size (in)	Flange Bolt Centers	Valve Wt (lb)
B 34987 *	2 5/8	1 15/32	6 1/2	12 35/64	3 11/32	4 5/32	3 7/8	1 1/16	1/4	3 7/8	28.5
B 34988 *	3 5/8	2 1/16	7	13 39/64	3 7/8	4 9/16	4 1/4	1 1/16	1/4	4 1/4	33.5

Valve	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	Bolt Centers	Dia Bolt Holes	Pipe Plug Size (in)	Flange Bolt Centers	Valve Wt (kg)
B 34987 *	67	37	165	319	85	106	98	17	1/4	98	12.93
B 34988 *	92	52	178	346	98	116	108	17	1/4	108	15.2



Ammonia Valves

Valve	C (in)	D (in)	E (in)	F (in)	Bolt Centers	Dia Bolt Holes	Flange Bolt Centers	Seal Cap Material	Valve Wt (lb)
B 35308	3 9/32	10 11/64	2 17/32	3 7/32	3 1/6	1 1/16	3 1/16	Valox	13.02
B 35358	3 25/32	12 7/16	3 11/32	4 5/32	3 7/8	1 1/16	3 1/16	Cast Iron	21.80

Valve	C (mm)	D (mm)	E (mm)	F (mm)	Bolt Centers	Dia Bolt Holes	Flange Bolt Centers	Seal Cap Material	Valve Wt (kg)
B 35308	83	258	64	82	80	17	78	Valox	5.91
B 35358	96	316	85	106	98	17	78	Cast Iron	9.89

For Torque To Seal data, see page 18-19

Compressor Valves, Cast Iron Four Bolt cont'd

VALVES

PROTECTION DEVICES

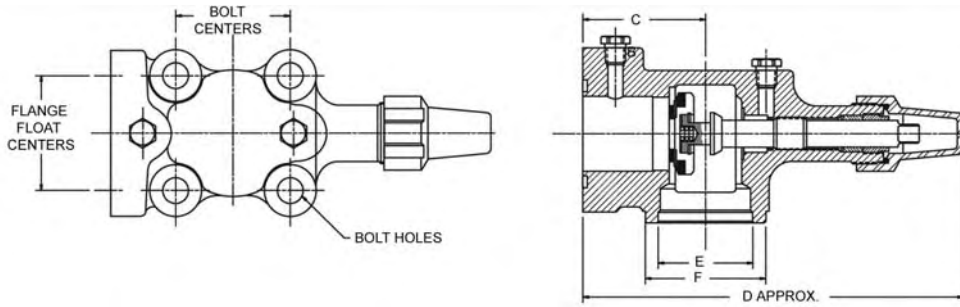
BRASS FITTINGS & FLANGES

FABRICATION & ASSEMBLIES

TERMS/POLICIES

CROSS REFERENCE

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Flange Union, Solder Type, Brass Cap

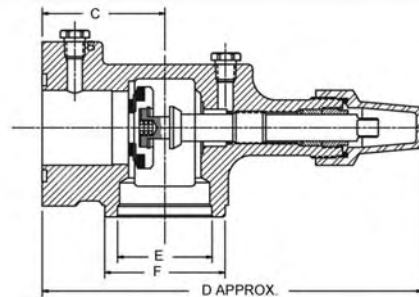
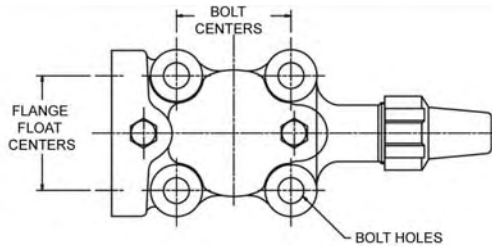
Valve	Kit	A (in)	B (in)	C (in)	D (in)	E (in)	F (in)	Bolt Centers	Dia Bolt Holes	Pipe Plug Size	Flange Bolt Centers	Seal Cap Material	Valve Wt (lb)	Kit Wt (lb)
A 15246		1 5/8	1 31/32	3 61/64	9 15/32	2 1/8	2 3/4	2 1/2	17/32	1/4	2 1/8	Valox	9.37	
A 16321	A 17513	1 5/8	1 31/32	4 19/32	10 3/64	2 1/8	2 3/4	2 1/2	17/32	1/4	2 1/8	Valox	8.72	8.92
A 16367	A 17524	1 5/8	1 31/32	5 1/4	11 29/32	2 17/32	3 7/32	3 1/16	11/16	1/4	3 1/16	Valox	18.2	18.61
A 16496		1 5/8	1 31/32	3 61/64	9 15/32	2 1/8	2 3/4	2 1/2	17/32	1/4	2 1/8	Valox	8.74	
B 32337		1 5/8	1 31/32	3 61/64	9 15/32	2 1/8	2 3/4	2 1/2	17/32	1/4	2 1/8	Valox	9.07	
B 33842		1 5/8	1 31/32	5 1/4	11 29/32	2 17/32	3 7/32	3 1/16	11/16	1/4	3 1/16	Cast Iron	18.97	
B 33784		2	1 9/32	5 1/64	11 55/64	2 17/32	3 7/32	3 1/16	11/16	1/4	3 1/16	Valox	16.42	
A 15586	A 17535	2 1/8	1 5/16	5 1/16	11 61/64	2 17/32	3 7/32	3 1/16	11/16	1/4	3 1/16	Valox	18.28	6.69
A 16324	A 17523	2 1/8	1 5/16	5 1/16	11 61/64	2 17/32	3 7/32	3 1/16	11/16	1/4	3 1/16	Valox	18.28	18.69
A 16493		2 1/8	1 5/16	5 1/16	11 61/64	2 17/32	3 7/32	3 1/16	11/16	1/4	3 1/16	Valox	17.71	
B 33572		2 1/8	1 5/16	5 1/16	11 61/64	2 17/32	3 7/32	3 1/16	11/16	1/4	3 1/16	Valox	17.49	
B 34429		2 1/8	1 5/16	5 1/16	11 61/64	2 17/32	3 7/32	3 1/16	11/16	1/4	3 1/16	Valox	17.28	
B 34671		2 1/8	1 5/16	5 1/16	11 61/64	2 33/64	3 7/32	3 1/16	11/16	1/4	3 1/16	Valox	17.28	
A 15587		2 5/8	1 9/32	5 1/64	12 1/16	2 17/32	3 7/32	3 1/16	11/16	1/4	3 1/16	Valox	20.3	
A 16366	A 17522	2 5/8	1 15/32	6 1/2	15 1/8	3 11/32	4 5/32	3 7/8	11/16	1/4	3 7/8	Cast Iron	33.18	33.73
B 33568		2 5/8	1 9/32	5 1/64	11 29/32	2 17/32	3 7/32	3 1/16	11/16	1/4	3 1/16	Valox	20.23	
B 34314		2 5/8	1 15/32	6 1/2	15 1/8	3 11/32	4 5/32	3 7/8	11/16	1/4	3 7/8	Cast Iron	30.8	
B 34582		2 5/8	1 17/64	5 3/64	11 29/32	2 17/32	3 7/32	3 1/16	11/16	1/4	3 1/16	Valox	17.0	
B 34661		2 5/8	1 15/32	6 1/2	15 1/8	3 11/32	4 5/32	3 7/8	11/16	1/4	3 7/8	Cast Iron	30.8	
A 15588		3 1/8	1 7/32	5 15/16	14 39/64	3 11/32	4 5/32	3 7/8	11/16	1/4	3 7/8	Cast Iron	33.22	
A 16365	A 17521	3 1/8	1 7/32	5 15/16	14 39/64	3 11/32	4 5/32	3 7/8	11/16	1/4	3 7/8	Cast Iron	33.22	33.77
B 33569		3 1/8	1 7/32	5 15/16	14 39/64	3 11/32	4 5/32	3 7/8	11/16	1/4	3 7/8	Cast Iron	32.38	
A 17496		3 5/8	2 1/16	7	16 19/64	3 7/8	4 35/64	4 1/4	11/16	1/4	4 1/4	Cast Iron	34.01	
B 33788		3 5/8	2 1/16	7	16 19/64	3 7/8	4 35/64	4 1/4	11/16	1/4	4 1/4	Cast Iron	34.01	
B 34315		3 5/8	2 1/16	7	16 19/64	3 7/8	4 35/64	4 1/4	11/16	1/4	4 1/4	Cast Iron	40.51	
B 34670		3 5/8	2 1/16	7	16 19/64	3 7/8	4	4 1/4	11/16	1/4	4 1/4	Cast Iron	40.51	
A 15589		4 1/8	1 31/32	7 7/32	17 1/2	4 3/8	5 1/8	4 13/16	13/16	1/4	4 13/16	Cast Iron	49.8	

For Torque To Seal data, see page 17-18



Compressor Valves, Cast Iron Four Bolt cont'd

Valve	Kit	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	Bolt Centers	Dia Bolt Holes	Pipe Plug Size	Flange Bolt Centers	Seal Cap Material	Valve Wt (kg)	Kit Wt (kg)
A 15246		41	50	100	241	54	70	64	13	1/4	54	Valox	4.25	
A 16321	A 17513	41	50	117	255	54	70	64	13	1/4	54	Valox	3.96	4.05
A 16367	A 17524	41	50	133	302	64	82	78	17	1/4	78	Valox	8.26	8.44
A 16496		41	50	100	241	54	70	64	13	1/4	54	Valox	3.96	
B 32337		41	50	100	241	54	70	64	13	1/4	54	Valox	4.11	
B 33842		41	50	133	302	64	82	78	17	1/4	78	Cast Iron	8.6	
B 33784		51	33	127	301	64	82	78	17	1/4	78	Valox	7.45	
A 15586	A 17535	54	33	129	304	64	82	78	17	1/4	78	Valox	8.29	3.03
A 16324	A 17523	54	33	129	304	64	82	78	17	1/4	78	Valox	8.29	8.48
A 16493		54	33	129	304	64	82	78	17	1/4	78	Valox	8.03	
B 33572		54	33	129	304	64	82	78	17	1/4	78	Valox	7.93	
B 34429		54	33	129	304	64	82	78	17	1/4	78	Valox	7.84	
B 34671		54	33	129	304	64	82	78	17	1/4	78	Valox	7.84	
A 15587		67	33	127	306	64	82	78	17	1/4	78	Valox	9.21	
A 16366	A 17522	67	37	165	384	85	106	98	17	1/4	98	Cast Iron	15.05	15.3
B 33568		67	33	127	302	64	82	78	17	1/4	78	Valox	9.18	
B 34314		67	37	165	384	85	106	98	17	1/4	98	Cast Iron	13.97	
B 34582		67	32	128	302	64	82	78	17	1/4	78	Valox		
B 34661		67	37	165	384	85	106	98	17	1/4	98	Cast Iron	13.97	
A 15588		79	31	151	371	85	106	98	17	1/4	98	Cast Iron	15.07	
A 16365	A 17521	79	31	151	371	85	106	98	17	1/4	98	Cast Iron	15.07	15.32
B 33569		79	31	151	371	85	106	98	17	1/4	98	Cast Iron	14.69	
A 17496		92	52	178	414	98	115	108	17	1/4	108	Cast Iron	15.43	
B 33788		92	52	178	414	98	115	108	17	1/4	108	Cast Iron	15.43	
B 34315		92	52	178	414	98	115	108	17	1/4	108	Cast Iron	18.38	
B 34670		92	52	178	414	98	102	108	17	1/4	108	Cast Iron	18.38	
A 15589		105	50	183	445	111	130	122	21	1/4	122	Cast Iron	22.59	



Without Flange

Valve	C (in)	D (in)	E (in)	F (in)	Bolt Centers	Dia Bolt Holes	Pipe Plug Size	Flange Bolt Centers	Seal Cap Material	Valve Wt (lb)
B 33793	3 9/32	10 11/64	2 17/32	3 7/32	3 1/16	11/16	1/4	3 1/16	Valox	12.58
B 33794	3 25/32	12 7/16	3 11/32	4 5/32	3 7/8	11/16	1/4	3 7/8	Cast Iron	22.05
B 34183	2 11/16	8 3/32	2 1/8	2 3/4	2 1/2	17/32	1/4	2 1/8	Valox	6.91
B 34497	3 63/64	13 1/4	3 7/8	4 35/64	4 1/4	11/16	1/4	4 1/4	Cast Iron	34
B 34498	3 9/32	10 1/8	2 17/32	3 7/32	3 1/16	11/16	1/4	3 1/6	Valox	17.28
B 34715	3 25/32	13	3 11/32	4 5/32	3 7/8	11/16	1/4	3 7/8	Steel	22.05
B 34761	3 9/32	10 11/64	2 17/32	3 1/32	3 1/16	11/16	1/4	3 1/16	Valox	13
B 34929 **	4 9/16	14 53/64	4 3/8	5 1/8	4 13/16	13/16	1/4	4 13/16	Cast Iron	37
B 35049	3 9/32	10 1/8	2 17/32	3 7/32	3 1/16	11/16	1/4	3 1/16	Valox	12.97

Valve	C (mm)	D (mm)	E (mm)	F (mm)	Bolt Centers	Dia Bolt Holes	Pipe Plug Size	Flange Bolt Centers	Seal Cap Material	Valve Wt (kg)
B 33793	83	258	64	82	78	17	1/4	78	Valox	5.71
B 33794	96	316	85	106	98	17	1/4	98	Cast Iron	10
B 34183	68	206	54	70	64	13	1/4	54	Valox	3.13
B 34497	101	337	98	115	108	17	1/4	108	Cast Iron	15.42
B 34498	83	257	64	82	78	17	1/4	80	Valox	7.84
B 34715	96	330	85	106	98	17	1/4	98	Steel	10
B 34761	83	258	64	77	78	17	1/4	78	Valox	5.9
B 34929 **	116	377	111	130	122	21	1/4	122	Cast Iron	16.78
B 35049	83	257	64	82	78	17	1/4	78	Valox	5.88

For Torque To Seal data, see page 18-19

** Does not include coupling and bolts

Compressor Valves, Torques To Seal

VALVES

PROTECTION DEVICES

BRASS FITTINGS & FLANGES

FABRICATION & ASSEMBLIES

TERMS/POLICIES

CROSS REFERENCE

INDEX

Valve	Front Seat (ft-lb)	Back Seat (ft-lb)	Pack Gland (ft-lb)	Pipe Plug	Plastic Cap	Brass Cap (ft-lb)	Steel Cap (ft-lb)	Cast Iron
A 13166								
A 15085	22 - 40	25 - 45	15 - 25	2 - 3 Threads Exposed	Hand Tight	40 - 50	NA	NA
A 15246	45 - 65	45 - 65	25 - 35	2 - 3 Threads Exposed	Hand Tight	NA	NA	NA
A 15500	22 - 40	25 - 45	15 - 25	2 - 3 Threads Exposed	Hand Tight	NA	NA	NA
A 15586	45 - 65	45 - 65	35 - 45	2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
A 15587	45 - 65	45 - 65	35 - 45	2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
A 15588	45 - 70	45 - 65	55 - 70	2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
A 15589	Max 70							
A 16302	14 - 18	14 - 18	8 - 12	2 - 3 Threads Exposed	NA	20 - 30	3 - 5	NA
A 16303	14 - 18	14 - 18	8 - 12	2 - 3 Threads Exposed	NA	20 - 30	3 - 5	NA
A 16304	14 - 18	14 - 18	8 - 12	2 - 3 Threads Exposed	NA	20 - 30	3 - 5	NA
A 16307	14 - 18	14 - 18	8 - 12	2 - 3 Threads Exposed	NA	20 - 30	3 - 5	NA
A 16308	14 - 18	14 - 18	8 - 12	2 - 3 Threads Exposed	NA	20 - 30	3 - 5	NA
A 16309	14 - 18	14 - 18	8 - 12	2 - 3 Threads Exposed	NA	20 - 30	3 - 5	NA
A 16310	22 - 40	25 - 45	15 - 25	2 - 3 Threads Exposed	Hand Tight	NA	NA	NA
A 16311	22 - 40	25 - 45	15 - 25	2 - 3 Threads Exposed	Hand Tight	NA	NA	NA
A 16312	22 - 40	25 - 45	15 - 25	2 - 3 Threads Exposed	Hand Tight	NA	NA	NA
A 16313	30 - 40	22 - 45	15 - 25	2 - 3 Threads Exposed	Hand Tight	40 - 50	NA	NA
A 16314	30 - 40	22 - 45	15 - 25	2 - 3 Threads Exposed	Hand Tight	40 - 50	NA	NA
A 16315	30 - 40	22 - 45	15 - 25	2 - 3 Threads Exposed	Hand Tight	40 - 50	NA	NA
A 16316	30 - 40	22 - 45	15 - 25	2 - 3 Threads Exposed	Hand Tight	40 - 50	NA	NA
A 16317	22 - 40	25 - 45	15 - 25	2 - 3 Threads Exposed	Hand Tight	NA	NA	NA
A 16321	45 - 65	45 - 65	25 - 35	2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
A 16324	45 - 65	45 - 65	35 - 45	2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
A 16365	45 - 70	45 - 65	55 - 70	2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
A 16366	45 - 70	45 - 65	55 - 70	2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
A 16367	45 - 65	45 - 65	35 - 45	2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
A 16493	45 - 65	45 - 65	35 - 45	2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
A 16496	45 - 65	45 - 65	25 - 35	2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
A 17496	Max 70							
B 32197	22 - 40	25 - 45	15 - 25	2 - 3 Threads Exposed	Hand Tight	40 - 50	NA	NA
B 32337	45 - 65	45 - 65	25 - 35	2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
B 32807	22 - 40	25 - 45	10 - 15	2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
B 32808	22 - 40	25 - 45	10 - 15	2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
B 32930	22 - 40	25 - 45	10 - 15	2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
B 33367	22 - 40	25 - 45	15 - 25	2 - 3 Threads Exposed	Hand Tight	NA	NA	NA
B 33568	45 - 65	45 - 65	35 - 45	2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
B 33569	45 - 70	45 - 65	55 - 70	2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
B 33572	45 - 65	45 - 65	35 - 45	2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
B 33770	45 - 65	45 - 65	25 - 35	2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
B 33771	45 - 65	45 - 65	35 - 45	2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
B 33784	45 - 65	45 - 65		2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
B 33788	50 - 70	50 - 65		2 - 3 Threads Exposed	NA	NA	Hand Tight	Hand Tight
B 33793	45 - 65	45 - 65		2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
B 33794	Max 70	Max 65		2 - 3 Threads Exposed	NA	NA	Hand Tight	Hand Tight
B 33813	45 - 65	45 - 65		2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
B 33842	45 - 65	45 - 65	35 - 45	2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
B 34183	45 - 65	45 - 65	25 - 35	2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
B 34314	45 - 65	45 - 65		2 - 3 Threads Exposed	NA	NA	Hand Tight	Hand Tight
B 34315	45 - 65	45 - 65		2 - 3 Threads Exposed	NA	NA	Hand Tight	Hand Tight
B 34429	45 - 65	45 - 65		2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
B 34497	50 - 70	50 - 65		2 - 3 Threads Exposed	NA	NA	Hand Tight	Hand Tight
B 34498	45 - 65	45 - 65		2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
B 34582	45 - 65	45 - 65		2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
B 34661	45 - 65	45 - 65		2 - 3 Threads Exposed	NA	NA	Hand Tight	Hand Tight
B 34670	46 - 65	45 - 65		2 - 3 Threads Exposed	NA	NA	Hand Tight	Hand Tight
B 34671	45 - 65	45 - 65		2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
B 34715	Max 70	Max 65		2 - 3 Threads Exposed	NA	NA	Hand Tight	Hand Tight
B 34929	50 - 70	50 - 65		2 - 3 Threads Exposed	NA	NA	NA	Hand Tight
B 34987					NA	NA	NA	NA
B 34988					NA	NA	NA	NA
B 35049	45 - 65	45 - 65		2 - 3 Threads Exposed	Hand Tight	NA	NA	NA
B 35308	45 - 65	45 - 65		2 - 3 Threads Exposed	Hand Tight	NA	NA	NA
B 35358	45 - 65	45 - 65		2 - 3 Threads Exposed	Hand Tight	NA	NA	NA



Compressor Valves, Torques To Seal cont'd

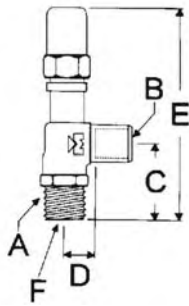
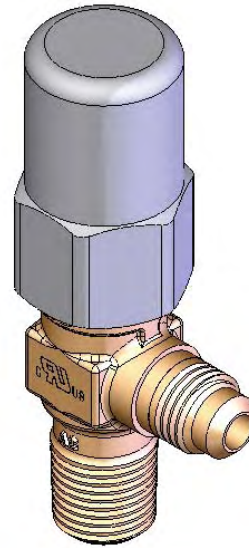
Valve	Front Seat (N-m)	Back Seat (N-m)	Pack Gland (N-m)	Pipe Plug	Plastic Cap	Brass Cap (N-m)	Steel Cap (N-m)	Cast Iron
A 13166								
A 15085	30 - 54	34 - 61	20 - 34	2 - 3 Threads Exposed	Hand Tight	54 - 68	NA	NA
A 15246	61 - 88	61 - 88	34 - 47	2 - 3 Threads Exposed	Hand Tight	NA	NA	NA
A 15500	30 - 54	34 - 61	20 - 61	2 - 3 Threads Exposed	Hand Tight	NA	NA	NA
A 15586	61 - 88	61 - 88	47 - 61	2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
A 15587	61 - 88	61 - 88	47 - 61	2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
A 15588	61 - 95	61 - 88	74 - 95	2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
A 15589	Max 95							
A 16302	19 - 24	19 - 24	11 - 16	2 - 3 Threads Exposed	NA	27 - 41	4 - 7	NA
A 16303	19 - 24	19 - 24	11 - 16	2 - 3 Threads Exposed	NA	27 - 41	4 - 7	NA
A 16304	19 - 24	19 - 24	11 - 16	2 - 3 Threads Exposed	NA	27 - 41	4 - 7	NA
A 16307	19 - 24	19 - 24	11 - 16	2 - 3 Threads Exposed	NA	27 - 41	4 - 7	NA
A 16308	19 - 24	19 - 24	11 - 16	2 - 3 Threads Exposed	NA	27 - 41	4 - 7	NA
A 16309	19 - 24	19 - 24	11 - 16	2 - 3 Threads Exposed	NA	27 - 41	4 - 7	NA
A 16310	30 - 54	34 - 61	20 - 34	2 - 3 Threads Exposed	Hand Tight	NA	NA	NA
A 16311	30 - 54	34 - 61	20 - 34	2 - 3 Threads Exposed	Hand Tight	NA	NA	NA
A 16312	30 - 54	34 - 61	20 - 34	2 - 3 Threads Exposed	Hand Tight	NA	NA	NA
A 16313	41 - 54	30 - 61	20 - 34	2 - 3 Threads Exposed	Hand Tight	54 - 68	NA	NA
A 16314	41 - 54	30 - 61	20 - 34	2 - 3 Threads Exposed	Hand Tight	54 - 68	NA	NA
A 16315	41 - 54	30 - 61	20 - 34	2 - 3 Threads Exposed	Hand Tight	54 - 68	NA	NA
A 16316	41 - 54	30 - 61	20 - 34	2 - 3 Threads Exposed	Hand Tight	54 - 68	NA	NA
A 16317	30 - 54	34 - 61	20 - 34	2 - 3 Threads Exposed	Hand Tight	NA	NA	NA
A 16321	61 - 88	61 - 88	34 - 47	2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
A 16324	61 - 88	61 - 88	47 - 61	2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
A 16365	61 - 95	61 - 88	75 - 95	2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
A 16366	61 - 95	61 - 88	75 - 95	2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
A 16367	61 - 88	61 - 88	47 - 61	2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
A 16493	61 - 88	61 - 88	47 - 61	2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
A 16496	61 - 88	61 - 88	34 - 47	2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
A 17496	Max 95							
B 32197	30 - 54	34 - 61	20 - 34	2 - 3 Threads Exposed	Hand Tight	54 - 68	NA	NA
B 32337	61 - 88	61 - 88	34 - 47	2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
B 32807	30 - 54	34 - 61	14 - 20	2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
B 32808	30 - 54	34 - 61	14 - 20	2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
B 32930	30 - 54	34 - 61	14 - 20	2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
B 33367	30 - 54	34 - 61	20 - 34	2 - 3 Threads Exposed	Hand Tight	NA	NA	NA
B 33568	61 - 88	61 - 88	47 - 61	2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
B 33569	61 - 95	61 - 88	75 - 95	2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
B 33572	61 - 88	61 - 88	47 - 61	2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
B 33770	61 - 88	61 - 88	34 - 47	2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
B 33771	61 - 88	61 - 88	47 - 61	2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
B 33784	61 - 88	61 - 88		2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
B 33788	68 - 95	68 - 88		2 - 3 Threads Exposed	NA	NA	Hand Tight	Hand Tight
B 33793	61 - 88	61 - 88		2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
B 33794	Max 95	Max 88		2 - 3 Threads Exposed	NA	NA	Hand Tight	Hand Tight
B 33813	61 - 88	61 - 88		2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
B 33842	61 - 88	61 - 88	47 - 61	2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
B 34183	61 - 88	61 - 88	34 - 47	2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
B 34314	61 - 88	61 - 88		2 - 3 Threads Exposed	NA	NA	Hand Tight	Hand Tight
B 34315	61 - 88	61 - 88		2 - 3 Threads Exposed	NA	NA	Hand Tight	Hand Tight
B 34429	61 - 88	61 - 88		2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
B 34497	68 - 95	68 - 88		2 - 3 Threads Exposed	NA	NA	Hand Tight	Hand Tight
B 34498	61 - 88	61 - 88		2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
B 34582	61 - 88	61 - 88		2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
B 34661	61 - 88	61 - 88		2 - 3 Threads Exposed	NA	NA	Hand Tight	Hand Tight
B 34670	61 - 88	61 - 88		2 - 3 Threads Exposed	NA	NA	Hand Tight	Hand Tight
B 34671	61 - 88	61 - 88		2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
B 34715	Max 95	Max 88		2 - 3 Threads Exposed	NA	NA	Hand Tight	Hand Tight
B 34929	68 - 95	68 - 88		2 - 3 Threads Exposed	NA	NA	NA	Hand Tight
B 34987					NA	NA	NA	NA
B 34988					NA	NA	NA	NA
B 35049	61 - 88	61 - 88		2 - 3 Threads Exposed	Hand Tight	NA	NA	NA
B 35308	61 - 88	61 - 88		2 - 3 Threads Exposed	Hand Tight	NA	NA	NA
B 35358	61 - 88	61 - 88		2 - 3 Threads Exposed	Hand Tight	NA	NA	NA



Packed Line Valves, Angle Backseating

Look for these Mueller advantages:

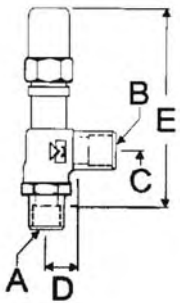
- Maximum working pressure (PS): 700 psig, 48 bar
- Working temperature range (TS): -40°F/300°F, -40°C/149°C
- Compatible with all CFC, HCFC and HFC refrigerants and oils
- UL/cUL Recognized, CE Certified
- RoHS Compliant
- Forged brass body
- Plated steel stem suitable for refrigerants and other industrial fluids non-corrosive to brass and steel
- Asbestos-free stem packing material
- Replacement caps:
Steel: A 04566
Brass: A 04597
Plastic: P 34627



NPTFE Inlet to Solder

Part No.	NPTFE A (in)	Solder B (in)	C (in)	D (in)	E (in)	Counterbore Dim. (F)		Wt. (lb)
						Dia. (in)	Depth (in)	
A 13977	1/2	1/2	1 13/16	1	4 3/32	0.504	3/8	0.51
A 13978	1/2	5/8	1 13/16	1	4 11/16	0.504	3/8	0.61
A 13979	3/4	7/8	2 3/32	1	6	0.754	5/8	1.27

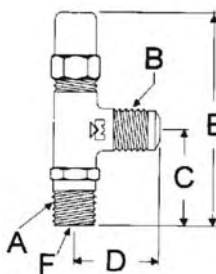
Part No.	NPTFE A (in)	Solder B (mm)	C (mm)	D (mm)	E (mm)	Dia. (mm)	Depth (mm)	Wt. (kg)
A 13977	1/2	13	46	25	104	13	10	0.23
A 13978	1/2	16	46	25	119	13	10	0.28
A 13979	3/4	22	53	25	152	19	16	0.58



Solder to Solder

Part No.	A (in)	B (in)	C (in)	D (in)	E (in)	Wt. (lb)
A 17506	5/8	5/8	29/32	1	3 3/4	0.66
B 32080	7/8	7/8	2 9/32	1 3/4	6 13/16	0.99

Part No.	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	Wt. (kg)
A 17506	16	16	23	25	95	0.3
B 32080	22	22	58	44	158	0.45



NPTFE Inlet to Flare

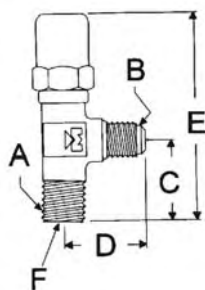
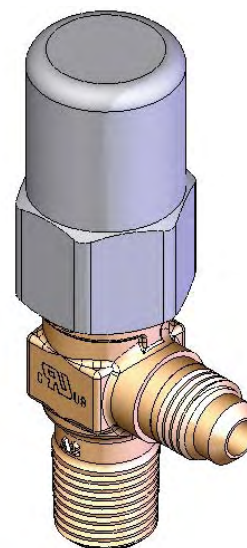
Part No.	NPTFE A (in)	Flare B (in)	C (in)	D (in)	E (in)	Dia. (in)	Depth (in)	Wt. (lb)
A 13220	1/2	1/2	1 13/16	1 5/16	4 1/8	0.504	3/8	0.52
A 13183	1/2	5/8	1 13/16	1 1/2	4 11/16	0.504	3/8	0.64

Part No.	NPTFE A (in)	Flare B (mm)	C (mm)	D (mm)	E (mm)	Dia. (mm)	Depth (mm)	Wt. (kg)
A 13220	1/2	13	46	33	105	13	10	0.24
A 13183	1/2	16	46	38	119	13	10	0.29

Packed Line Valves, Angle Non-Backseating

Look for these Mueller advantages:

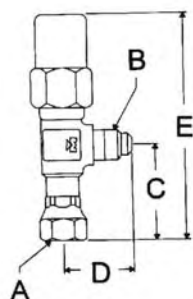
- Maximum working pressure (PS): 700 psig, 48 bar
- Working temperature range (TS): -40°F/300°F, -40°C/149°C
- Compatible with all CFC, HCFC and HFC refrigerants and oils
- UL/cUL Recognized, CE Certified
- RoHS Compliant
- Forged brass body
- Plated steel stem suitable for refrigerants and other industrial fluids non-corrosive to brass and steel
- Asbestos-free stem packing material
- Replacement caps:
Steel: A 04566
Brass: A 04597
Plastic: P 34627



NPTFE Inlet to Flare (***)includes copper gasket)

Part No.	Part No.	MPT	Flare	C	D	E	Dia.	Depth	Wt
Steel Cap	Brass Cap ***	A (in)	B (in)	(in)	(in)	(in)	(in)	(in)	(lb)
A 11031	A 16472	1/4	1/4	1	15/16	3 3/64	0.254	5/16	0.29
A 11030		1/4	3/8	1 1/16	1 1/8	3 3/32	0.317	5/16	0.31
A 13613		3/8	1/4	1 1/18	1 1/16	3 3/16	0.379	5/16	0.31
A 13503		3/8	3/8	1 1/18	1 1/8	3 5/32	0.379	1/2	0.33
A 11042		3/8	1/2	1 3/8	1 3/8	3 3/4	0.379	5/16	0.51

Part No.	Part No.	MPT	Flare	C	D	E	Dia.	Depth	Wt
Steel Cap	Brass Cap ***	A (in)	B (in)	(mm)	(mm)	(mm)	(mm)	(mm)	(kg)
A 11031	A 16472	1/4	1/4	25	33	77	6	8	0.13
A 11030		1/4	3/8	27	29	79	8	8	0.14
A 13613		3/8	1/4	27	27	81	10	8	0.14
A 13503		3/8	3/8	27	29	80	10	13	0.15
A 11042		3/8	1/2	35	35	95	10	8	0.23

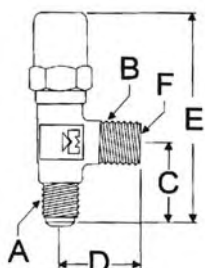


Internal Swivel Flare to Flare (***)includes copper gasket)

Part No.	Part No.	Part No.	Internal Flare	Flare	C	D	E	Wt
Steel Cap	Plastic Cap	Brass Cap***	A (in)	B (in)	(in)	(in)	(in)	(lb)
B 33803	A 17429	B 34247	1/4	1/4	1 15/32	1 1/16	3 29/32	0.35
A 17474		B 34261	3/8	3/8	1 1/2	1 1/8	3 9/19	0.42

Part No.	Part No.	Part No.	Internal Flare	Flare	C	D	E	Wt
Steel Cap	Plastic Cap	Brass Cap ***	A (mm)	B (mm)	(mm)	(mm)	(mm)	(kg)
B 33803	A 17429	B 34247	6	6	37	27	99	0.16
A 17474		B 34261	10	10	38	29	88	0.19

Available in: Flare to Internal Swivel Flare. Contact Factory for Details.



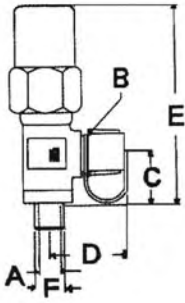
Flare to NPTFE

Part No.	MPT	Flare	C	D	E	Dia.	Depth	Wt
	A (in)	B (in)	(in)	(in)	(in)	(in)	(in)	(lb)
A 15073	1/4	1/4	15/16	1	3	0.254	5/16	0.27

Part No.	MPT	Flare	C	D	E	Dia.	Depth	Wt
	A (in)	B (in)	(mm)	(mm)	(mm)	(mm)	(mm)	(kg)
A 15073	1/4	1/4	24	25	76	6	8	0.12

Machined to accept OD size tube as indicated

Packed Line Valves, Angle Non-Backseating & Two Way

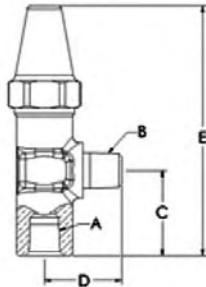


Solder to Flare with Seal Cap (***includes copper gasket)

Part No.	Part No.	Part No.	Solder	Flare	C	D	E	F	Wt
Steel Cap	Brass Cap	Loosely Assembled	A (in)	B (in)	(in)	(in)	(in)	(in) ODE	(lb)
A 17502	B 34252	B 35161	1/4*	1/4	23/32	1 1/32	2 3/4	3/8	0.3
A 17503	B 35255	B 35160	3/8**	3/8	1 1/16	1 1/2	2 23/32	1/2	0.49

Part No.	Part No.	Part No.	Solder	Flare	C	D	E	F	Wt
Steel Cap	Brass Cap	Loosely Assembled	A (mm)	B (mm)	(mm)	(mm)	(mm)	(mm) ODE	(kg)
A 17502	B 34252	B 35161	6*	6	18	26	70	10	0.14
A 17503	B 35255	B 35160	10**	10	17	38	69	13	0.22

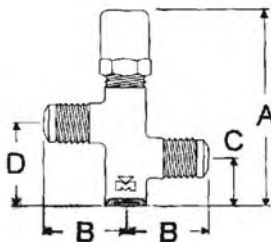
* Also 3/8 FTG, ** Also 1/2 FTG



Angle Non-Backseating

Part No.	A	B	C	D	E	Wt
	(in)	(in)	(in)	(in)	(in)	(lb)
A 13502	1/4 NPTFE	1/4 NPTFI	1 3/8	1 1/16	3 25/32	0.49
B 32222	1/4 NPTFI	1/4 NPTFE	1 1/4	1 1/8	3 43/64	0.51

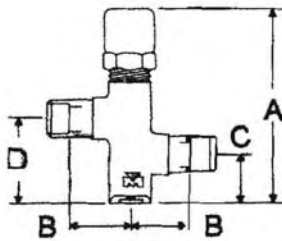
Part No.	A	B	C	D	E	Wt
	(in)	(in)	(mm)	(mm)	(mm)	(kg)
A 13502	1/4 NPTFE	1/4 NPTFI	35	27	96	0.22
B 32222	1/4 NPTFI	1/4 NPTFE	32	29	93	0.23



Two Way-Flare to Flare (includes copper gasket)

Part No.	Part No.	Size	A	B	C	D	Wt
w/ Steel Cap	w/ Brass Cap*	(in)	(in)	(in)	(in)	(in)	(lb)
A 13591*	B 33482	1/4	3 13/32	1	29/32	1 13/32	0.5
A 13595*		3/8	3 13/32	1 1/8	29/32	1 13/32	0.55
A 13592*		1/2	3 13/32	1 1/4	15/16	1 7/16	0.56

Part No.	Part No.	Size	A	B	C	D	Wt
w/ Steel Cap	w/ Brass Cap*	(in)	(mm)	(mm)	(mm)	(mm)	(kg)
A 13591	B 33482	1/4	87	25	23	36	0.23
A 13595		3/8	87	29	23	36	0.25
A 13592		1/2	87	32	24	37	0.25



Two Way- Solder to Solder (includes copper gasket)

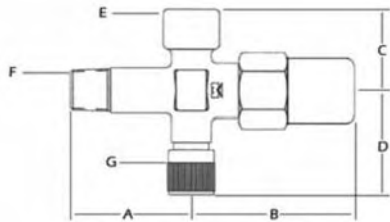
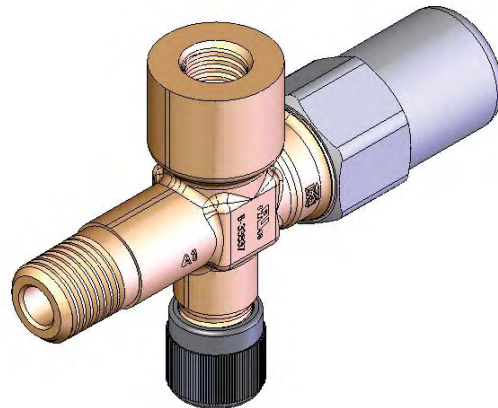
Part No.	Part No.	Size	A	B	C	D	Wt
w/ Steel Cap	w/ Brass Cap*	(in)	(in)	(in)	(in)	(in)	(lb)
A 15580	B 34883	1/4	3 13/32	3/4	15/16	1 7/16	0.49
A 15581		3/8	3 13/32	15/16	29/32	1 13/32	0.51
A 15582		1/2	3 13/32	7/8	29/32	1 13/32	0.52

Part No.	Part No.	Size	A	B	C	D	Wt
w/ Steel Cap	w/ Brass Cap*	(mm)	(mm)	(mm)	(mm)	(mm)	(kg)
A 15580	B 34883	6	87	19	24	37	0.22
A 15581		10	87	24	23	36	0.23
A 15582		13	87	22	23	36	0.24

Transducer Valves

Look for these Mueller advantages:

- Maximum working pressure (PS): 700 psig, 48 bar
- Working temperature range (TS): -40°F/300°F, -40°C/149°C
- Compatible with all CFC, HCFC and HFC refrigerants and oils
- UL/cUL Recognized, CE Certified
- RoHS Compliant
- Forged brass body
- Plated steel stem suitable for refrigerants and other industrial fluids non-corrosive to brass and steel
- Asbestos-free stem packing material
- Replacement caps:
Steel: A 04566
Brass: A 04597
Plastic: P 34627



Part No.	A (in)	B (in)	C (in)	D (in)	E (in)	F (in)	G (in)	Stem Cap Material	Wt. (lb)
B 33837	1 1/2	2	1	1 1/4	1/8 NPTFI	1/4 NPTFE	1/4 Flare Access	Steel	0.62
B 34254	1 1/2	2	1	1 1/4	1/8 NPTFI	1/4 NPTFE	1/4 Flare Access	Brass	0.41
B 34287*	1 1/2	2	1	1 1/4	1/4 NPTFI	1/4 NPTFE	1/4 Flare Access	Plastic	0.35
B 35162	1 1/2	2	1	1 1/4	1/8 NPTFI	3/8 ODS	1/4 Flare Access	Steel	0.43
B 35334**	1 1/2	2	1	1 1/4	1/4 NPTFI	1/4 NPTFE	1/4 Flare Access	Plastic	0.35

Part No.	A (mm)	B (mm)	C (mm)	D (mm)	E (in)	F (in)	G (in)	Stem Cap Material	Wt. (kg)
B 33837	38	51	25	32	1/8 NPTFI	1/4 NPTFE	1/4 Flare Access	Steel	0.28
B 34254	38	51	25	32	1/8 NPTFI	1/4 NPTFE	1/4 Flare Access	Brass	0.19
B 34287*	38	51	25	32	1/4 NPTFI	1/4 NPTFE	1/4 Flare Access	Plastic	0.16
B 35162	38	51	25	32	1/8 NPTFI	3/8 ODS	1/4 Flare Access	Steel	0.20
B 35334**	38	51	25	32	1/4 NPTFI	1/4 NPTFE	1/4 Flare Access	Plastic	0.16

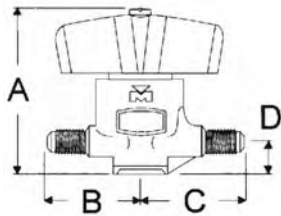
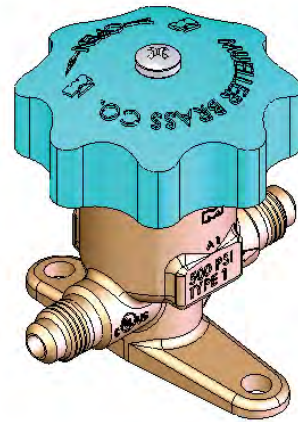
*Valve core not installed

**Valve shipped loosely assembled

Packless Diaphragm Valves, Straight

Look for these Mueller advantages:

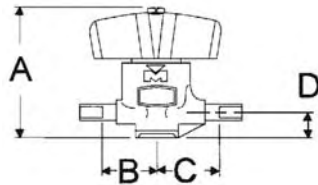
- Maximum working pressure (PS) with flow in the direction of the arrow on the body: 700 psig, 48 bar
- Maximum working pressure (PS) with flow against the direction of the arrow on the body: 350 psig, 24 bar
- Working temperature range (TS): -40°F/300°F, -40°C/149°C
- Compatible with all CFC, HCFC and HFC refrigerants and oils
- UL/cUL Listed, CE Certified
- RoHS Compliant
- Forged brass body with full size openings for maximum flow and minimal pressure drop
- Fitted with two stainless steel diaphragms and one phosphor bronze diaphragm for positive isolation
- Thermally stable hand wheel for operation in wide temperature ranges
- Counter seat design assures no moisture intrusion



Flare to Flare

Part No.	Size (in)	A Open (in)	B (in)	C (in)	D (in)	Wt (lb)
A 14833	1/4	2 11/16	1 1/3	1 3/8	5/8	0.75
A 14835	3/8	2 11/16	1 3/8	1 27/64	5/8	0.76
A 14836	1/2	3 15/32	1 5/8	1 27/32	27/32	1.25
A 14837	5/8	3 15/32	1 11/16	1 15/16	27/32	1.27

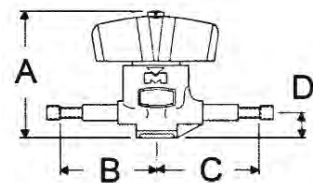
Part No.	Size (in)	A Open (mm)	B (mm)	C (mm)	D (mm)	Wt (kg)
A 14833	1/4	68	33	35	16	0.34
A 14835	3/8	68	35	36	16	0.34
A 14836	1/2	88	41	47	21	0.57
A 14837	5/8	88	43	49	21	0.58



Solder to Solder

Part No.	Size (in)	A Open (in)	B (in)	C (in)	D (in)	Wt (lb)
A 14838	1/4	2 11/16	1 1/32	1 3/32	5/8	0.72
A 14840	3/8	2 11/16	1 1/32	1 3/32	5/8	0.71
A 14841	1/2	3 1/2	1 1/3	1 9/16	27/32	1.22
A 14842	5/8	3 1/2	1 1/5	1 7/16	27/32	1.22

Part No.	Size (mm)	A Open (mm)	B (mm)	C (mm)	D (mm)	Wt (kg)
A 14838	6	68	26	28	16	0.33
A 14840	10	68	26	28	16	0.32
A 14841	13	89	33	40	21	0.55
A 14842	16	89	31	37	21	0.55



Extended End - Solder to Solder

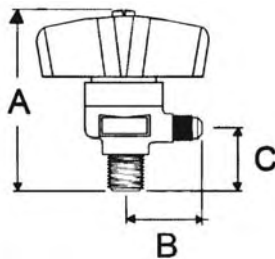
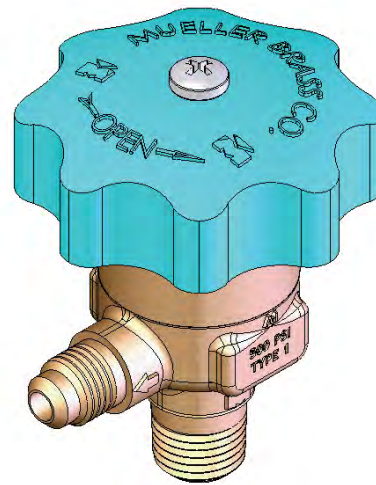
Part No.	Size (in)	A Open (in)	B (in)	C (in)	D (in)	Wt (lb)
A 14848	1/4	2 11/16	2 21/32	2 23/32	5/8	0.75
A 14850	3/8	2 11/16	2 13/16	2 7/8	5/8	0.76
A 14851	1/2	3 1/2	3 1/32	3 11/32	27/32	1.28
A 14852	5/8	3 1/2	3 7/64	3 11/32	27/32	1.34

Part No.	Size (mm)	A Open (mm)	B (mm)	C (mm)	D (mm)	Wt (kg)
A 14848	6	68	67	69	16	0.34
A 14850	10	68	71	73	16	0.34
A 14851	13	89	77	85	21	0.58
A 14852	16	89	79	85	21	0.61

Packless Diaphragm Valves, Angle

Look for these Mueller advantages:

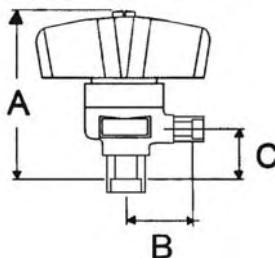
- Maximum working pressure (PS) with flow in the direction of the arrow on the body: 700 psig, 48 bar
- Maximum working pressure (PS) with flow against the direction of the arrow on the body: 350 psig, 24 bar
- Working temperature range (TS): -40°F/300°F, -40°C/149°C
- Compatible with all CFC, HCFC and HFC refrigerants and oils
- UL/cUL Listed, CE Certified
- RoHS Compliant
- Forged brass body with full size openings for maximum flow and minimal pressure drop
- Fitted with two stainless steel diaphragms and phosphor bronze diaphragm for positive isolation
- Thermally stable hand wheel for operation in wide temperature ranges
- Counter seat design assures no moisture intrusion



NPTF to Flare

Part No.	MPT (in)	Flare (in)	A Open (in)	B (in)	C (in)	Wt (lb)
A 15525	1/4	1/4	2 13/16	1 19/64	1 3/64	0.61
A 15526	1/4	3/8	2 13/16	1 27/64	1 3/64	0.63
A 15527	3/8	1/4	2 7/8	1 19/64	1 5/64	0.62
A 15528	3/8	3/8	2 7/8	1 27/64	1 5/64	0.64
A 15529	3/8	1/2	3 9/16	1 27/32	1 19/64	1.06
A 15530	1/2	1/2	3 11/16	1 27/32	1 7/16	1.06
A 15531	1/2	5/8	3 11/16	1 15/16	1 7/16	1.08

Part no.	MPT (in)	Flare (in)	A Open (mm)	B (mm)	C (mm)	Wt (kg)
A 15525	1/4	1/4	71	33	27	0.28
A 15526	1/4	3/8	71	36	27	0.29
A 15527	3/8	1/4	73	33	27	0.28
A 15528	3/8	3/8	73	36	27	0.29
A 15529	3/8	1/2	90	47	33	0.48
A 15530	1/2	1/2	94	47	37	0.48
A 15531	1/2	5/8	94	49	37	0.49



Solder to Solder

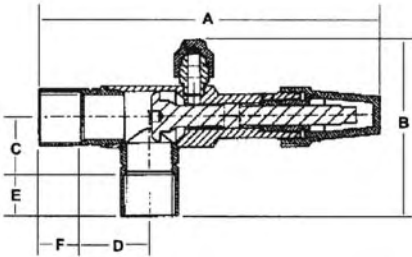
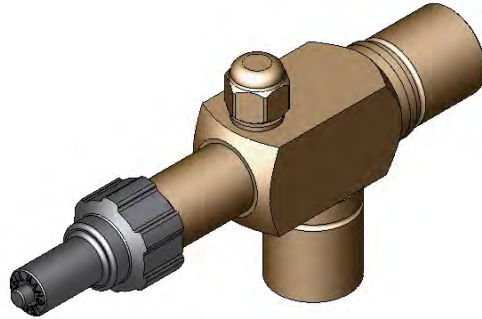
Part No.	OD (in)	A Open (in)	B (in)	C (in)	Wt (lb)
A 15539	1/4	2 17/32	1 3/32	3/4	0.69
A 15540	3/8	2 17/32	1 3/32	3/4	0.71
A 15541	1/2	3 5/16	1 3/16	1 1/16	1.14
A 15542	5/8	3 13/64	5/16	15/16	1.14

Part no.	OD (mm)	A Open (mm)	B (mm)	C (mm)	Wt (kg)
A 15539	6	64	28	19	0.31
A 15540	10	64	28	19	0.32
A 15541	13	84	30	27	0.52
A 15542	16	81	8	24	0.52

Angle Isolation Valves, Brass Solder x Solder

Look for these Mueller advantages:

- Maximum working pressure (PS): 700 psig, 48 bar
- Working temperature range (TS): -40°F/300°F, -40°C/149°C
- Compatible with all CFC, HCFC and HFC refrigerants and oils
- UL/cUL Recognized, CE Certified
- RoHS Compliant
- 100% tested
- Asbestos-free packing material
- Quick-change packing gland allows easy replacement without refrigerant loss
- Solid brass construction for maximum protection in all environmental conditions
- Backseating design



Part No.	Size	Cv	A (in)	B (in)	C (in)	D (in)	E (in)	F (in)	Flare Size (in)	Wt (lb)
B 34413	5/8 ODS X 5/8 ODS	6	5 27/64	2 21/32	27/32	1 11/64	1/2	1/2	1/4	0.08
B 34412	7/8 ODS X 7/8 ODS	15	6 9/16	3 3/32	29/32	1 17/64	3/4	3/4	1/4	1.17
B 35224	1 1/8 ODS X 1 1/8 ODS	25	7 19/32	3 63/64	1 5/16	1 1/2	15/16	15/16	3/8	1.85
B 34479	1 1/8 ODS X 1 3/8 ODS	-	7 19/32	3 3/4	1 1/4	1 1/2	1	15/16	1/4	1.95
B 34594	1 3/8 ODS X 1 3/8 ODS	38	9 31/64	4 3/16	1 1/2	1 29/32	1	1	3/8	2.87
B 34595	1 5/8 ODS X 1 5/8 ODS	53	10 3/64	4 11/16	1 3/4	2 3/16	1 3/32	1 3/32	1/4	3.88

Part No.	Size	Kv	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	Wt (kg)
B 34413	5/8 ODS X 5/8 ODS	5.12	138	67	21	30	13	13	0.04
B 34412	7/8 ODS X 7/8 ODS	12.8	167	79	23	32	19	19	0.53
B 35224	1 1/8 ODS X 1 1/8 ODS	21.33	193	101	33	38	24	24	0.84
B 34479	1 1/8 ODS X 1 3/8 ODS	-	193	95	32	38	25	24	0.8
B 34594	1 3/8 ODS X 1 3/8 ODS	32.41	241	106	38	48	25	25	1.3
B 34595	1 5/8 ODS X 1 5/8 ODS	45.21	255	119	44	56	28	28	1.76

Torques to Seal

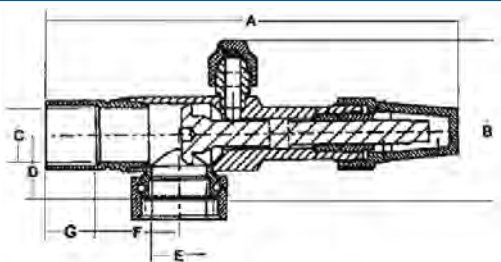
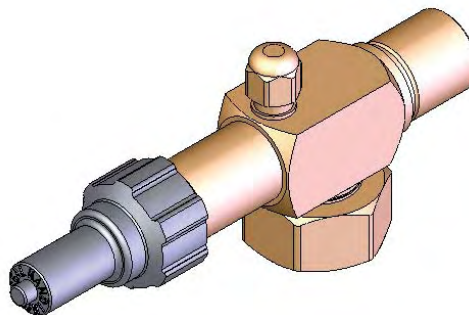
Part No.	Front Seat (ft-lbs)	Back Seat (ft-lbs)	Pack Gland (ft-lbs)	Flare Seal Cap (ft-lbs)	Seal Cap (ft-lbs)
B 34413	16 - 18	16 - 18	8 - 12	8 - 10	Finger Tight
B 34412	22 - 40	25 - 45	15 - 25	8 - 10	Finger Tight
B 35224	22 - 40	25 - 45	15 - 25	15 - 25	Finger Tight
B 34479					
B 34594	22 - 40	22 - 45	15 - 25	15 - 25	40 - 50
B 34595	22 - 40	22 - 45	15 - 25	15 - 25	40 - 50

Part No.	Front Seat (N-m)	Back Seat (N-m)	Pack Gland (N-m)	Flare Seal Cap (N-m)	Seal Cap (N-m)
B 34413	22 - 24	22 - 24	11 - 16	11 - 14	Finger Tight
B 34412	30 - 40	34 - 61	20 - 34	11 - 14	Finger Tight
B 35224	30 - 40	34 - 61	20 - 34	20 - 34	Finger Tight
B 34479					
B 34594	30 - 40	30 - 61	20 - 34	20 - 34	54 - 68
B 34595	30 - 40	30 - 61	20 - 34	20 - 34	54 - 68

Angle Isolation Valves, Brass Solder x Rotolock

Look for these Mueller advantages:

- Maximum working pressure (PS): 700 psig, 48 bar
- Working temperature range (TS): -40°F/300°F, -40°C/149°C
- Compatible with all CFC, HCFC and HFC refrigerants and oils
- UL/cUL Recognized, CE Certified
- RoHS Compliant
- 100% tested
- Asbestos-free packing material
- Quick-change packing gland allows easy replacement without refrigerant loss
- Solid brass construction for maximum protection in all environmental conditions
- Backseating design



Part No.	Size	Cv (in)	A (in)	B (in)	C (in)	D (in)	E (in)	F (in)	Flare Size (in)	Wt (lb)
B 34418	5/8 ODS X 1 THD	6	5 27/64	2 1/4	35/64	15/16	35/64	1/6	1/4	0.68
B 34417	7/8 ODS X 1 1/4 THD	15	6 9/16	2 31/64	3/4	1 3/64	3/4	1 17/64	1/4	1.33
B 34416	1 1/8 ODS X 1 3/4 THD	25	7 19/32	3	1	1 1/4	1	1 35/64	3/8	2.03
B 34415	1 3/8 ODS X 1 3/4 THD	38	9 31/64	3 17/64	1 1/4	1 2/5	1 1/4	1 29/32	3/8	3.26
B 34414	1 5/8 ODS X 2 1/4 THD	53	10 3/64	3 35/64	1 1/2	1 9/16	1 1/2	2 3/16	3/8	4.26

Part No.	Size	Kv	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	Flare Size (in)	Wt (kg)
B 34418	5/8 ODS X 1 THD	5.16	138	57	14	24	14	4	1/4	0.31
B 34417	7/8 ODS X 1 1/4 THD	12.9	167	63	19	27	19	32	1/4	0.6
B 34416	1 1/8 ODS X 1 3/4 THD	21.5	193	76	25	32	25	39	3/8	0.92
B 34415	1 3/8 ODS X 1 3/4 THD	32.68	241	83	32	36	32	48	3/8	1.48
B 34414	1 5/8 ODS X 2 1/4 THD	45.58	255	90	38	40	38	56	3/8	1.93

Torques to Seal

Part No.	Front Seat (ft-lbs)	Back Seat (ft-lbs)	Pack Gland (ft-lbs)	Flare Seal Cap (ft-lbs)	Rotolock Nut (ft-lbs)	Seal Cap (ft-lbs)
B 34418	16 - 18	16 - 18	8 - 12	8 - 10	40 - 50	Finger Tight
B 34417	22 - 40	22 - 45	15 - 25	15 - 25	60 - 80	Finger Tight
B 34416	22 - 40	22 - 45	15 - 25	15 - 25	60 - 80	Finger Tight
B 34415	22 - 40	22 - 45	15 - 25	15 - 25	60 - 80	40 - 50
B 34414	22 - 40	22 - 45	15 - 25	15 - 25	80 - 100	40 - 50

Part No.	Front Seat (N-m)	Back Seat (N-m)	Pack Gland (N-m)	Flare Seal Cap (N-m)	Rotolock Nut (N-m)	Seal Cap (N-m)
B 34418	22 - 24	22 - 24	11 - 16	11 - 14	54 - 68	Finger Tight
B 34417	30 - 40	30 - 61	20 - 34	20 - 34	81 - 109	Finger Tight
B 34416	30 - 40	30 - 61	20 - 34	20 - 34	81 - 109	Finger Tight
B 34415	30 - 40	30 - 61	20 - 34	20 - 34	81 - 109	54 - 68
B 34414	30 - 40	30 - 61	20 - 34	20 - 34	109 - 136	54 - 68

Rotolock Couplings & Line Break Kits

Thread	Male Spud	Gasket	Line Break Kits*
1	**	**	**
1 1/4	**	**	**
1 1/2	S 36173	P 36168	A 17910
1 3/4	S 36171	P 36169	A 17912
2 1/4	S 36164	P 36167	A 17908

* Line Break Kit includes Rotolock, Spud and Gasket

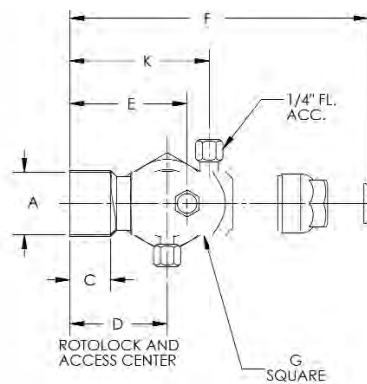
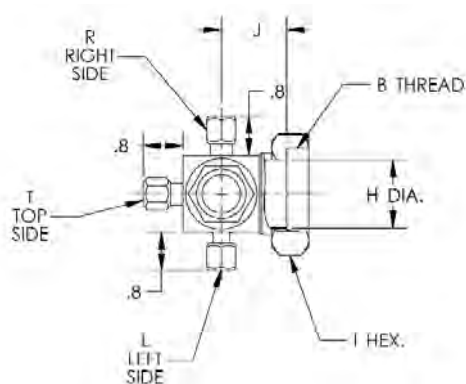
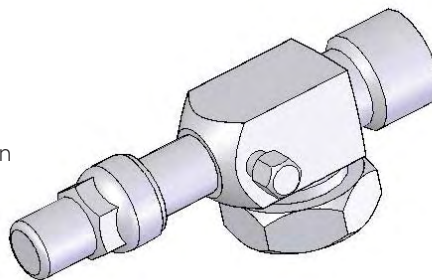
** Consult Factory



Angle Isolation Valves, Steel Solder x Rotolock

Look for these Mueller advantages:

- Maximum working pressure (PS): 700 psig, 48 bar
- Working temperature range (TS): -40°F/300°F, -40°C/149°C
- Compatible with all CFC, HCFC and HFC refrigerants and oils
- UL/cUL Recognized, CE Certified
- RoHS Compliant
- Tin plated protection for maximum corrosion resistance
- Solid copper solder connections for fast and efficient system installation
- Adjustable packing nut assures leak free operation
- Quick-change packing gland allows easy replacement without refrigerant loss
- Available with multiple access port configurations
- Access cap made from solid brass
- Solder x solder configurations with upcoming release date



Angle Isolation Valves, Steel Solder x Rotolock

Part No	A	A	C	C	D	D	E	E	F	F	G	G	H DIAI HEX	J	J	K	K	
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(in)	(mm)	(in)	(mm)	
I 10000	5/8	16	0.53	13	1.57	40	N/A	N/A	4.65	118	0.87	22	0.51	1.18	0.78	20	2.08	53
I 10001	3/4	19	0.65	17	2.10	53	2.77	70	5.75	146	1.18	30	0.75	1.42	1.05	27	N/A	N/A
I 10002	7/8	22	0.79	20	2.10	53	N/A	N/A	5.69	145	1.18	30	0.75	1.42	1.05	27	2.77	70
I 10004	1 1/8	29	0.95	24	2.85	72	N/A	N/A	7.62	194	1.42	36	1.06	1.97	1.22	31	3.77	96

Prefixed Dimensional Data:

B - Thread

Second Letter Indicates Thread Size (Rotolock Nut)

A	3/4" - 16UNF-2B
B	1"-14 UNS-2B
C	1 1/4"-12 UNF-2B
D	1 1/2" - 12 UNF
E	1 3/4"-12 UN-2B
F	2 1/4" - 12UNF-2B

Access Port

Third Letter Indicates First Port Location

T	Top Side
L	Left Side
R	Right Side

Access Port

Fourth Letter Indicates Second Port Location

T	Top Side
L	Left Side
R	Right Side

Examples of part numbers:

IBLR10000 5/8, 1"-14 UNS-2B Thread, Access ports on Left and Right sides of valve
 ICT10001 3/4, 1 1/4"-12 UNF-2B Thread, Access port on Top of valve
 ICLR10002 7/8, 1 1/4"-12 UNF-2B Thread, Access ports on Left and Right sides of valve
 IELR10004 1 1/8, 1 3/4"-12 UN-2B Thread, Access ports on Left and Right sides of valve

Torques to Seal

Part No	STEM CAP		PACKING NUT		STEM FRONT SEAT		STEM BACK SEAT		FLARE SEAL CAP	
	(ft-lbs)	(N-m)	(ft-lbs)	(N-m)	(ft-lbs)	(N-m)	(ft-lbs)	(N-m)	(ft-lbs)	(N-m)
I 10000	6 - 7	8 - 10	7 - 9	10 - 12	9 - 11	12 - 15	9 - 11	12 - 15	7 - 11	10 - 15
I 10001	12 - 13	16 - 18	7 - 9	10 - 12	11 - 15	15 - 20	18 - 22	25 - 30	7 - 11	10 - 15
I 10002	12 - 13	16 - 18	7 - 9	10 - 12	11 - 15	15 - 20	18 - 22	25 - 30	7 - 11	10 - 15
I 10004	12 - 13	16 - 18	11 - 13	15 - 18	15 - 18	20 - 25	30 - 33	41 - 45	7 - 11	10 - 15

How to select a relief valve:

- Determine the minimum discharge capacity required
- Determine pressure setting. This relief setting cannot exceed the design pressure of the liquid receiver. However, the relief valve setting should be at least 25% higher than the maximum system operating pressure.
- Determine the size connection required.
- Select valve.

Discharge Capacity

The minimum required discharge capacity of the pressure relief device or fusible plug for each pressure vessel is determined by the following formula, specified by the ASHRAE Standard 15, Safety Code for Mechanical Refrigeration:

$C = KFDL$ where:

C = minimum required discharge capacity of the relief device, lb. air/min (kg air/min)

D = outside diameter of vessel, ft (m)

L = length of the vessel, ft (m)

K = factor dependent on units used (K = 1 for I-P units, K = 4.88 for SI units)

F = factor dependent on the kind of refrigerant from Discharge Capacity chart

Discharge Capacity (air/min)

psig	Prefix	A lb	B lb	C lb	D lb	E lb	F lb	G lb
235	AD	4.3	9.1	20.1	33.7	55.9	91.8	39
300	AE	5.4	11.5	25.4	42.5	70.5	115.8	49.2
350	AG	6.3	13.3	29.5	49.3	81.8	134.3	57.1
400	AH	7.1	15.2	33.5	56.1	93	152.7	64.9
425	AI	7.6	16.1	35.6	59.5	98.6	162	68.8
450	AJ	8	17	37.6	62.9	104.3	171.2	72.8

bar	Prefix	A kg	B kg	C kg	D kg	E kg	F kg	G kg
16	AD	2	4.1	9.1	15.3	25.4	41.6	17.7
21	AE	2.4	5.2	11.5	19.3	32	52.5	22.3
24	AG	2.9	6	13.4	22.4	37.1	60.9	25.9
28	AH	3.2	6.9	15.2	25.4	42.2	69.3	29.4
29	AI	3.4	7.3	16.1	27	44.7	73.5	31.2
31	AJ	3.6	7.7	17.1	28.5	47.3	77.7	33

Refrigerant

When used on the lowside of a limited-charge cascade system

(Value in parentheses is metric):

Value of F

R-23, R-170, R-744, R-1150, R-508A, R-508B 1.0 (0.082)

R-13, R-13B1, R-503 2.0 (0.163)

R-14 2.5 (0.203)

Other Applications:

R-718 0.2 (0.016)

R-717 0.5 (0.041)

R-11, R-32, R-113, R-123, R-142b, R-152a, R-290, R-600, R-600a, R-764 1.0 (0.082)

R-12, R-22, R-114, R-1124, R-134a, R-401A, R-401B, R-401C, R-405A, R-406A, R-407C, R-407D, R-407E, R-409A, R-409B, R-411A, R-411B, R-411C, R-412A, R-414A, R-414B, R-500, R-1240 1.6 (0.131)

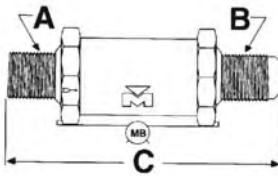
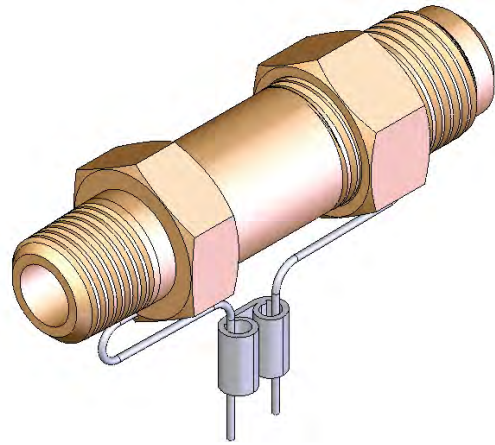
R-143a, R-402B, R-403A, R-407A, R-408A, R-413A 2.0 (0.163)

R-115, R-402A, R-403B, R-404A, R-407B, R-410A, R-410B, R-502, R-507A, R-509A 2.5 (0.203)

Pressure Relief Valves, Straight

Look for these Mueller advantages:

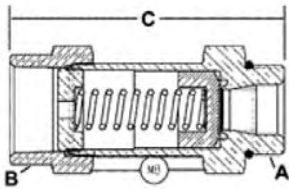
- Maximum working pressure (PS): indicated by prefix selection
- Working temperature range (TS): -40°F/300°F, -40°C/149°C
- Compatible with all CFC, HCFC and HFC refrigerants and oils
- CE Certified
- RoHS Compliant
- Designed primarily for use on liquid receiver applications above the liquid refrigerant level (It is recommended that the factory be consulted before the valves are used on other applications.)
- Satisfy ASHRAE Standard 15 code requirements for a refrigerant vessel safety device (Application information can also be found in the ASHRAE Guide and Data Book.)
- Comply with ASME code for unfired pressure vessels
- Discharge rates are Certified by National Board of Boiler and Pressure Vessel Inspectors
- Available with multiple seat configurations for a wide range of applications
- Designed for maximum discharge capacities
- High pressure settings available



Straight Thru - NPTFE Inlet to Flare Outlet

Part No.	Inlet A	Outlet B	C (in)	Wt (lb)	Discharge Table
A 15501	1/4	3/8	2 21/32	0.19	A
A 15502	3/8	3/8	2 13/16	0.33	B
A 15503	3/8	1/2	3	0.36	B
A 15504	1/2	5/8	4 3/16	0.84	C
B 33752	1/4	3/8	2 13/16	0.32	B
B 33753	1/4	1/2	3	0.41	B

Part No.	Inlet A	Outlet B	C (mm)	Wt (kg)	Discharge Table
A 15501	1/4	3/8	67	0.09	A
A 15502	3/8	3/8	71	0.15	B
A 15503	3/8	1/2	76	0.16	B
A 15504	1/2	5/8	106	0.38	C
B 33752	1/4	3/8	71	0.15	B
B 33753	1/4	1/2	76	0.19	B

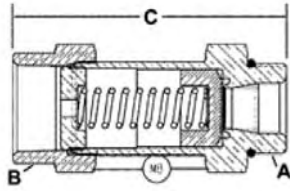


Straight Thru – NPTFE Inlet to NPTFI Outlet

Part No.	Inlet A	Outlet B	C (in)	Wt (lb)	Discharge Table
A 18356	1/2	1/2	4	0.89	G
A 18357	1/2	3/4	4	0.89	G
A 15506	3/4	3/4	5	1.49	D
A 18358	3/4	3/4	4	0.89	G
A 17840	1	1	4 9/16	1.95	E
A 18387	1	1	5	2	F
A 17834	1 1/4	1 1/4	5	2	F

Part No.	Inlet A	Outlet B	C (mm)	Wt (kg)	Discharge Table
A 18356	1/2	1/2	102	0.4	G
A 18357	1/2	3/4	102	0.4	G
A 15506	3/4	3/4	127	0.68	D
A 18358	3/4	3/4	102	0.4	G
A 17840	1	1	116	0.88	E
A 18387	1	1	127	0.91	F
A 17834	1 1/4	1 1/4	127	0.91	F

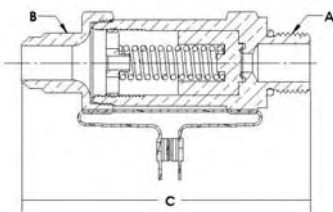
Pressure Relief Valves, Straight cont'd



Straight Thru – Straight Thread Inlet to NPTFI Outlet

Part No.	Inlet A	Outlet B	C (in)	Wt (lb)	Discharge Table
B 34444	7/8-14 UNF-2A	3/4	5	1.53	D
B 34519	1 5/16-12UNF-2S	1	4 3/8	1.37	E
B 34580	1 5/8-12UNF-2A	1 1/4	5	2	F

Part No.	Inlet A	Outlet B	C (mm)	Wt (kg)	Discharge Table
B 34444	7/8-14 UNF 2A	3/4	127	0.69	D
B 34519	1 5/16-12UNF2S	1	111	0.62	E
B 34580	1 5/8-12UNF-2A	1 1/4	127	0.91	F



Straight Thru – Straight Thread to Flare

Part No.	Inlet A	Outlet B	C (in)	Wt (lb)	Discharge Table
B 35413	7/8-14UNF-2A	5/8	4 3/16	0.86	C

Part No.	Inlet A	Outlet B	C (mm)	Wt (kg)	Discharge Table
B 35413	7/8-14UNF-2A	5/8	106	0.39	C

Prefixed for standard settings:

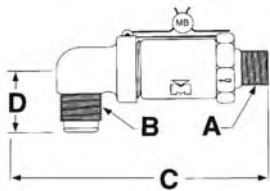
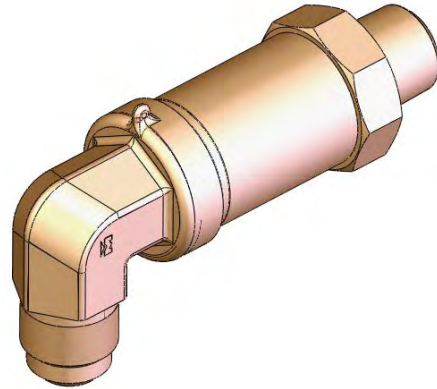
Prefix	psig	bar
AD	235	16
AE	300	21
AG	350	24
AH	400	28
AI	425	29
AJ	450	31

For valves furnished at non-standard settings, use part number as listed in specification charts and indicated exact pressure setting.

Pressure Relief Valves, Angle & Atmospheric

Look for these Mueller advantages:

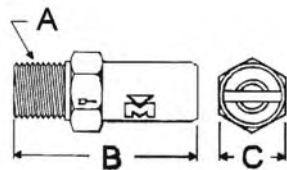
- Maximum working pressure (PS): indicated by prefix selection
- Working temperature range (TS): -40°F/300°F, -40°C/149°C
- Compatible with all CFC, HCFC and HFC refrigerants and oils
- CE Certified
- RoHS Compliant
- Designed primarily for use on liquid receiver applications above the liquid refrigerant level (It is recommended that the factory be consulted before the valves are used on other applications.)
- Satisfy ASHRAE Standard 15 code requirements for a refrigerant vessel safety device (Application information can also be found in the ASHRAE Guide and Data Book.)
- Comply with ASME code for unfired pressure vessels
- Discharge rates are Certified by National Board of Boiler and Pressure Vessel Inspectors
- Available with multiple seat configurations for a wide range of applications
- Designed for maximum discharge capacities
- High pressure settings available



Angle NPTF to Flare

Part No.	Inlet A	Outlet B	C (in)	D (in)	Wt (lb)	Discharge Table
B 33746	1/4	3/8	2 3/8	1 1/8	0.3	B
B 33754	1/4	1/2	2 7/16	1 5/16	0.43	B
A 15512	3/8	3/8	2 3/8	1 3/8	0.36	B
A 15513	3/8	1/2	2 3/8	1 11/32	0.38	B
A 15514	1/2	5/8	4 3/32	1 9/16	0.98	C

Part No.	Inlet A	Outlet B	C (mm)	D (mm)	Wt (kg)	Discharge Table
B 33746	1/4	3/8	60	29	0.14	B
B 33754	1/4	1/2	62	33	0.20	B
A 15512	3/8	3/8	60	35	0.16	B
A 15513	3/8	1/2	60	34	0.17	B
A 15514	1/2	5/8	104	40	0.44	C



Atmospheric - NPTF Inlet

Part No.	Inlet A	B (in)	C (in)	Wt (lb)	Discharge Table
A 15508	1/8	1 7/8	3/4	0.12	A
A 15509	1/4	2	3/4	0.13	A
A 17430	3/8	2 1/8	1	0.24	B
B 33755	1/4	2 1/8	1	NA	B

Part No.	Inlet A	B (mm)	C (mm)	Wt (kg)	Discharge Table
A 15508	1/8	48	19	0.05	A
A 15509	1/4	51	19	0.06	A
A 17430	3/8	51	25	0.11	B
B 33755	1/4	54	25	NA	B

Prefixed for standard settings:

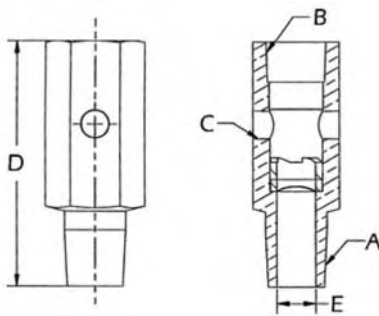
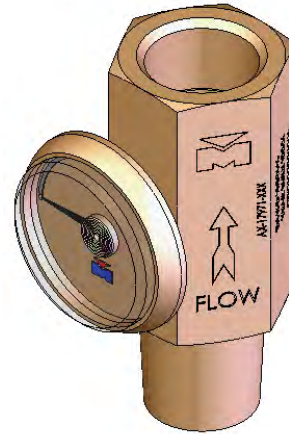
Prefix	psig	bar
AD	235	1.6
AE	300	2.1
AG	350	2.4
AH	400	2.8
AI	425	2.9
AJ	450	3.1

For valves furnished at non-standard settings, use part number as listed in specification charts and indicated exact pressure setting.

Rupture Discs & Pressure Gauges

Look for these Mueller advantages:

- Maximum working pressure (PS): indicated by prefix selection
- Working temperature range (TS): -40°F/300°F, -40°C/149°C
- Compatible with all CFC, HCFC and HFC refrigerants and oils
- CE Certified Category 4 Product, Certified to meet ASME Code
- RoHS Compliant
- Designed to burst open and relieve an over pressure or vacuum condition at a predetermined differential pressure and specific temperature
- Remains open after bursting, but when combined with Mueller's pressure gauge, a visual indication of the burst is revealed
- One-piece brass construction
- Non-fragmenting rupture disc
- Dual access ports



Rupture Disc

Part No.	A NPTFE	B NPTI	C NPT	D (in)	D (mm)	E (in)	E (mm)	Wt (lb)	Wt (kg)
A 17971	1/2	1/2	1/8	2.81	71.4	1/2	12.7	0.51	0.23

Prefixed for standard settings:

Prefix	psig	bar
AD	235	16
AE	300	21
AG	350	24
AH	400	28
AI	425	29
AJ	450	31

For valves furnished at non-standard settings, use part number as listed in specification charts and indicated exact pressure setting.

Pressure Gauge

P 36214

ASME Code

Guidelines for the application of Rupture Disc Devices in combination with pressure relief valves is provided by ASME Code. The following is an excerpt from the ASME Code, Section VIII, Division I, UG-127.

A rupture disc device may be installed between a pressure relief valve and the vessel provided:

- The marked capacity of a pressure relief valve, when installed with a rupture disc device between the inlet of the valve and the vessel, shall be multiplied by a factor of 0.90 of the rated relieving capacity of the valve alone.
- The space between a rupture disc device and a pressure relief valve shall be provided with a pressure gage, or suitable telltale indicator. This arrangement permits detection of disc rupture or leakage.

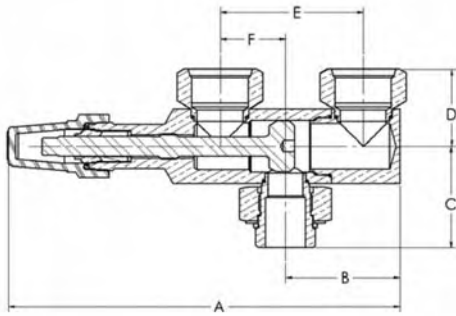
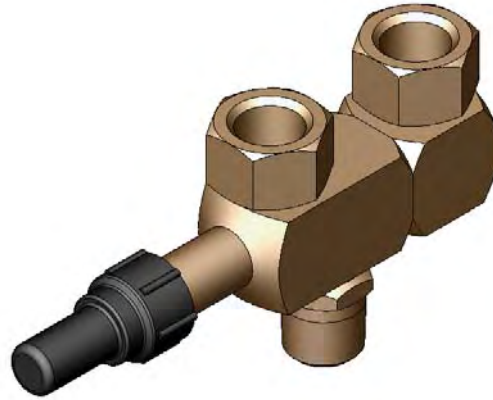
Users are warned that a rupture disc will not burst at its design pressure if back pressure build up in the space between the disc and the pressure relief valve which will occur should leakage develop in the rupture disc due to corrosion or other cause. Compliance to ASME Code is the responsibility of the User.



RELIEFMASTER® Change-Over Manifold

Look for these Mueller advantages:

- Maximum working pressure (PS): 700 psig, 48 bar
- Working temperature range (TS): -40°F/300°F, -40°C/149°C
- Compatible with all CFC, HCFC and HFC refrigerants and oils
- UL/cUL Recognized, CE Certified, Meets ASHRAE 15, ASME Codes, National Board Certified
- RoHS Compliant
- 100% tested
- Finger tight seal cap
- Brass seal cap available for select sizes



Part No.	Inlet	Outlets	A (in)	B (in)	C (in)	D (in)	E (in)	F (in)	Wt (lb)	Torques to Seal		
										Front Seat (ft-lbs)	Back Seat (ft-lbs)	Pack Gland (ft-lbs)
A 17921*	1/2 NPTFE	1/2 NPTFI	6	1 3/4	1 3/4	1 3/8	2 1/16	3/4	1.20	16 - 18	16 - 18	8 - 12
A 17922*	3/4 NPTFE	3/4 NPTFI	6	1 3/4	1 7/8	1 3/8	2 1/16	3/4	1.28	16 - 18	16 - 18	8 - 12
A 17923	1 NPTFE	1 NPTFI	8 11/16	2 7/16	2 3/8	1 7/8	3 1/8	1 7/16	4.55	22 - 40	25 - 45	15 - 25
A 17924	1 1/4 NPTFE	1 1/4 NPTFI	8 7/8	2 7/16	2 7/16	2 1/8	3 1/8	1 7/16	5.60	22 - 40	25 - 45	15 - 25
B 34550*	7/8-14 UNF 2A	7/8-14 UNF 2B	6	1 3/4	1 5/8	1 3/8	2 1/16	3/4	1.46	16 - 18	16 - 18	8 - 12
B 34559	1 5/19-12 UNF 2A	1 5/19-12 UNF 2B	8 9/16	2 7/16	2 1/8	1 3/4	3 1/8	1 7/16	3.14	22 - 40	25 - 45	15 - 25
B 34654	1 5/8-12 UNF 2A	1 5/8-12 UNF 2B	8 9/16	2 7/16	2 1/8	1 13/16	3 1/8	1 7/16	3.64	22 - 40	25 - 45	15 - 25
B 35272	1 NPTFI	1 NPTFI	11 13/32	5 13/32	1 15/16	1 31/32	1 7/8	1 7/16	6.22	22 - 40	25 - 45	15 - 25
B 35273	1 1/4 NPTFI	1 1/4 NPTFI	11 13/32	5 13/32	1 15/16	1 31/32	1 7/8	1 7/16	6.00	22 - 40	25 - 45	15 - 25
B 35271	3/4 NPTFI	3/4 NPTFI	7 23/32	3 17/32	1 11/16	1 11/16	3 5/8	3/4		16 - 18	16 - 18	8 - 12

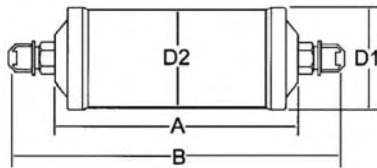
Part No.	Inlet	Outlets	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	Wt (kg)	Torques to Seal		
										Front Seat (N-m)	Back Seat (N-m)	Pack Gland (N-m)
A 17921*	1/2 NPTFE	1/2 NPTFI	152	44	44	35	52	19	0.54	22 - 24	22 - 24	11 - 16
A 17922*	3/4 NPTFE	3/4 NPTFI	152	44	48	35	52	19	0.58	22 - 24	22 - 24	11 - 16
A 17923	1 NPTFE	1 NPTFI	221	62	60	48	79	37	2.06	30 - 54	34 - 61	20 - 34
A 17924	1 1/4 NPTFE	1 1/4 NPTFI	225	62	62	54	79	37	2.54	30 - 54	34 - 61	20 - 34
B 34550*	7/8-14 UNF 2A	7/8-14 UNF 2B	152	44	41	35	52	19	0.66	22 - 24	22 - 24	11 - 16
B 34559	1 5/19-12 UNF 2A	1 5/19-12 UNF 2B	217	62	54	44	79	37	1.42	30 - 54	34 - 61	20 - 34
B 34654	1 5/8-12 UNF 2A	1 5/8-12 UNF 2B	217	62	54	46	79	37	1.65	30 - 54	34 - 61	20 - 34
B 35272	1 NPTFI	1 NPTFI	290	137	49	50	48	37	2.82	30 - 54	34 - 61	20 - 34
B 35273	1 1/4 NPTFI	1 1/4 NPTFI	290	137	49	50	48	37	2.72	30 - 54	34 - 61	20 - 34
B 35271	3/4 NPTFI	3/4 NPTFI	196	90	43	43	92	19		22 - 24	22 - 24	11 - 16

* Brass seal cap replacement, S36284.

Filter Driers, Liquid Line Flare

Look for these Mueller advantages:

- Maximum working pressure (PS): 610 psig
- Working temperature range (TS): -40°F/300°F, -40°C/149°C
- Compatible with all CFC, HCFC and HFC refrigerants and oils and refrigerants requiring XHII desiccant
- UL/cUL Listed, CE Certified
- RoHS Compliant
- Solid core design, composed of 80% molecular sieves / 20% activated alumina on liquid line models for exceptional moisture and acid removal
- High retention filter for removal of particulate as small as 25 microns
- High pressure shell and connections
- Powder paint finish approved for marine applications
- 100% molecular sieve cores with upcoming release date

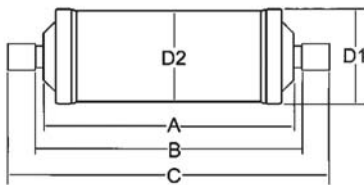


								Liquid Capacity (tons)			Water Capacity (drops)						
Part No.	Model No.	Desiccant		A	B	D1	D2	R134a	R507	R404A R410A	R22	125° F	R134a	R404A	R407C	125° F	
		Cubic Inches	Size								75° F		75° F		125° F		
A 16600	FL-032	3	1/4	2.48	4.35	2.25	2.12	2	1.5	2	108	99	171	90	99	90	
A 16601	FL-033	3	3/8	2.48	4.85	2.25	2.12	5	3.5	5.5	108	99	171	90	99	90	
A 16606	FL-052	5	1/4	2.88	4.68	2.25	2.12	2	1.5	2	130	117	207	108	117	108	
A 16607	FL-053	5	3/8	2.88	5.20	2.25	2.12	5	4	5.5	130	117	207	108	117	108	
A 16608	FL-082	8	1/4	3.89	5.72	2.25	2.12	2	1.5	2	198	189	319	166	189	180	
A 16609	FL-083	8	3/8	3.89	6.51	2.25	2.12	5.5	4	6	198	189	319	166	189	180	
A 16610	FL-084	8	1/2	3.89	6.51	2.25	2.12	7.5	5.5	8	198	189	319	166	189	180	
A 16612	FL-162	16	1/4	4.22	6.05	3.17	2.98	2	1.5	2	467	436	724	396	427	396	
A 16613	FL-163	16	3/8	4.22	6.58	3.17	2.98	6	4.5	6.5	467	436	724	396	427	396	
A 16614	FL-164	16	1/2	4.22	6.91	3.17	2.98	8.5	6	9	467	436	724	396	427	396	
A 16615	FL-165	16	5/8	4.22	7.25	3.17	2.98	12	8.5	13.5	467	436	724	396	427	396	
A 16618	FL-303	30	3/8	7.24	9.59	3.17	2.98	6	4.5	6.5	935	872	1519	809	872	809	
A 16619	FL-304	30	1/2	7.24	9.91	3.17	2.98	8.5	6	9.5	935	872	1519	809	872	809	
A 16620	FL-305	30	5/8	7.24	10.23	3.17	2.98	12.5	9	14	935	872	1519	809	872	809	
A 16623	FL-413	41	3/8	7.44	9.64	3.67	3.51	7	5	7.5	1294	1214	2103	1124	1205	1106	
A 16624	FL-414	41	1/2	7.44	9.94	3.67	3.51	9	6.5	10	1294	1214	2103	1124	1205	1106	
A 16625	FL-415	41	5/8	7.44	10.28	3.67	3.51	15	10.5	16.5	1294	1214	2103	1124	1205	1106	

Filter Driers, Liquid Line Solder

Look for these Mueller advantages:

- Maximum working pressure (PS): charted below
- Working temperature range (TS): -40°F/300°F, -40°C/149°C
- Compatible with all CFC, HCFC and HFC refrigerants and oils and refrigerants requiring XH11 desiccant
- UL/cUL Listed, CE Certified
- RoHS Compliant
- Solid core design, composed of 80% molecular sieves / 20% activated alumina on liquid line models for exceptional moisture and acid removal
- High retention filter for removal of particulate as small as 25 microns
- High pressure shell and connections
- Powder paint finish approved for marine applications 100%
- 100% molecular sieve cores with upcoming release date

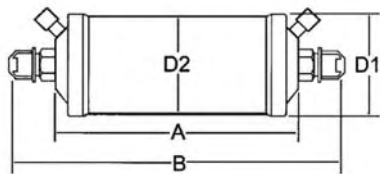


Part No.	Model No.	Desiccant Cubic Inches	Size	Max Working Pressure	A	B	C	D1	D2	Liquid Capacity (tons)			Water Capacity (drops)					
										R22			R134a		R407C			
										R404A	R407C	R410A	75° F	125° F	75° F	125° F	75° F	125° F
A 16640	SD-032	3	1/4	610	2.48	3.23	3.85	2.25	2.12	2	1.5	2	108	99	171	90	99	90
A 16641	SD-033	3	3/8	610	2.48	3.36	3.98	2.25	2.12	5	3.5	5.5	108	99	171	90	99	90
A 16646	SD-052	5	1/4	610	2.88	3.58	4.20	2.25	2.12	2	1.5	2	130	117	207	108	117	108
A 16647	SD-053	5	3/8	610	2.88	3.75	4.37	2.25	2.12	5	4	5.5	130	117	207	108	117	108
A 16648	SD-082	8	1/4	610	3.89	4.61	5.23	2.25	2.12	2	1.5	2	198	189	319	166	189	180
A 16649	SD-083	8	3/8	610	3.89	4.74	5.36	2.25	2.12	5.5	4	6	198	189	319	166	189	180
A 16650	SD-084	8	1/2	610	3.89	4.75	5.51	2.25	2.12	7.5	5.5	8	198	189	319	166	189	180
A 16653	SD-163	16	3/8	610	4.22	5.09	5.71	3.17	2.98	6	4.5	6.5	467	436	724	396	427	396
A 16654	SD-164	16	1/2	610	4.22	5.10	5.86	3.17	2.98	8.5	6	9	467	436	724	396	427	396
A 16655	SD-165	16	5/8	610	4.22	5.28	6.28	3.17	2.98	12	8.5	13.5	467	436	724	396	427	396
A 16657	SD-166	16	3/4	500	4.22	5.51	6.75	3.17	2.98	12	8.5	13.5	467	436	724	396	427	396
A 16656	SD-167	16	7/8	500	4.22	5.35	6.85	3.17	2.98	12	8.5	13.5	467	436	724	396	427	396
A 16658	SD-303	30	3/8	610	7.24	8.07	8.69	3.17	2.98	6	4.5	6.5	935	872	1519	809	872	809
A 16659	SD-304	30	1/2	610	7.24	8.13	8.89	3.17	2.98	8.5	6	9.5	935	872	1519	809	872	809
A 16660	SD-305	30	5/8	610	7.24	8.27	9.27	3.17	2.98	12.5	9	14	935	872	1519	809	872	809
A 16662	SD-307	30	7/8	500	7.24	8.15	9.65	3.17	2.98	16.5	12	18.5	935	872	1519	809	872	809
A 16661	SD-309	30	1 1/8	500	7.24	8.15	9.97	3.17	2.98	16.5	12	18.5	935	872	1519	809	872	809
A 16663	SD-413	41	3/8	610	7.44	8.23	8.85	3.67	3.51	7	5	7.5	1294	1214	2103	1124	1205	1106
A 16664	SD-414	41	1/2	610	7.44	8.19	8.95	3.67	3.51	9	6.5	10	1294	1214	2103	1124	1205	1106
A 16665	SD-415	41	5/8	610	7.44	8.31	9.31	3.67	3.51	15	10.5	16.5	1294	1214	2103	1124	1205	1106
A 16667	SD-417	41	7/8	500	7.44	8.39	9.89	3.67	3.51	26	18.5	28.5	1294	1214	2103	1124	1205	1106
A 16668	DS-419	41	1 1/8	500	7.44	8.19	10.01	3.67	3.51	26	18.5	28.5	1294	1214	2103	1124	1205	1106

Filter Driers, Suction Line

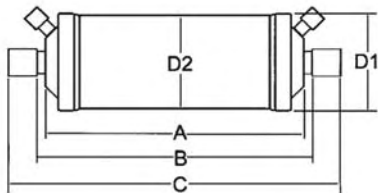
Look for these Mueller advantages:

- Maximum working pressure (PS): charted below
- Working temperature range (TS): -40°F/300°F, -40°C/149°C
- Compatible with all CFC, HCFC and HFC refrigerants and oils and refrigerants requiring XH11 desiccant
- UL/cUL Listed, CE Certified
- RoHS Compliant
- Solid core design, composed of 70% molecular sieves / 30% activated alumina on suction line models for exceptional moisture and acid removal
- High retention filter for removal of particulate as small as 25 microns
- High pressure shell and connections
- Powder paint finish approved for marine applications



Flare Connection

Part No.	Model No.	Cubic Inches	Size	Max Working Pressure	A	B	D1	D2	Nominal Capacity (tons) Evaporator Temp. 40° F		
									R134a	R404A R507	R22 R407C R410A
A 17225	FDF-164-TT	16	1/2	610	4.3	6.9	3.1	3	1.7	2.4	3
A 17226	FDF-165-TT	16	5/8	610	4.3	7.2	3.1	3	2.7	3.7	4.3



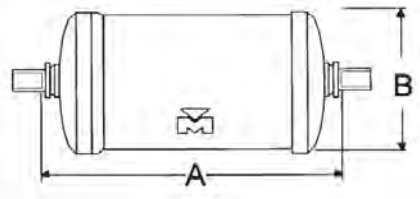
Solder Connection

Part No.	Model No.	Cubic Inches	Size	Max Working Pressure	A	B	C	D1	D2	Nominal Capacity (tons) Evaporator Temp. 40° F		
										R134a	R404A R507	R22 R407C R410A
A 17224	FDS-164-TT	16	1/2	610	4.3	4.6	6	3.1	3	1.7	2.4	3
A 17227	FDS-165-TT	16	5/8	610	4.3	4.6	6.2	3.1	3	2.7	3.7	4.3
A 17228	FDS-166-TT	16	3/4	510	4.3	4.6	6.7	3.1	3	3.4	4.9	5.7
A 17229	FDS-167-TT	16	7/8	510	4.3	4.7	6.8	3.1	3	3.9	5.4	6.3
A 17230	FDS-169-TT	16	1 1/8	510	4.3	4.7	6.8	3.1	3	4.6	6.5	7.5
A 17231	FDS-309-TT	30	1 1/8	510	7.3	7.7	9.8	3.1	3	5.7	7.7	8.9
A 17300	FDS-305-TT	30	5/8	610	7.3	7.6	9.2	3.1	3	3.1	4.3	5.1
A 17301	FDS-306-TT	30	3/4	510	7.3	7.6	9.7	3.1	3	4	5.4	6.3
A 17302	FDS-307-TT	30	7/8	510	7.3	7.7	9.8	3.1	3	4.6	6.3	7.4
A 17232	FDS-3011-TT30	1 3/8	360	7.3	8.6	10.5	3.1	3	5.7	7.7	8.9	
A 17233	FDS-3013-TT30	1 5/8	360	7.3	8.7	11.3	3.1	3	5.7	7.7	8.9	

Heat Pump Driers

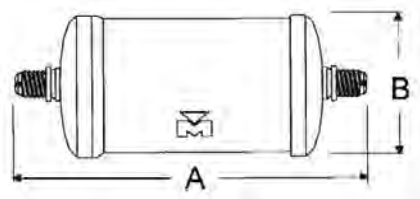
Look for these Mueller advantages:

- Maximum working pressure (PS):
- Working temperature range (TS): -40°F/300°F, -40°C/149°C
- Compatible with all CFC, HCFC and HFC refrigerants and oils and refrigerants requiring XH11 desiccant
- UL/cUL Listed, CE Certified
- RoHS Compliant
- Solid core design, composed of 80% molecular sieves / 20% activated alumina on liquid line models for exceptional moisture and acid removal
- High retention filter for removal of particulate as small as 25 microns
- High pressure shell and connections
- Powder paint finish approved for marine applications



Flare Connection

Part No.	Model No.	Cubic Inches	Connection Size	Wt (lb)	A	Diameter B	Flow Capacity (Tons) at 2 psi Pressure Drop	Liquid Refrigerant Capacity (oz) at 100° F	Drying Capacity Drops of H ₂ O	
A 17388	HPF-083	8	3/8	1.5	6 1/4	2 1/4	5	8.4	106	75
A 17390	HPF-163	16	3/8	1.75	6 3/4	3 1/8	5.4	9.8	185	130
A 17983	HPF-164	16	1/2	2.23	7	3 1/8	9.2	9.8	185	130
A 17984	HPF-165	16	5/8	2.18	7 3/8	3 1/8	9.3	9.8	185	130



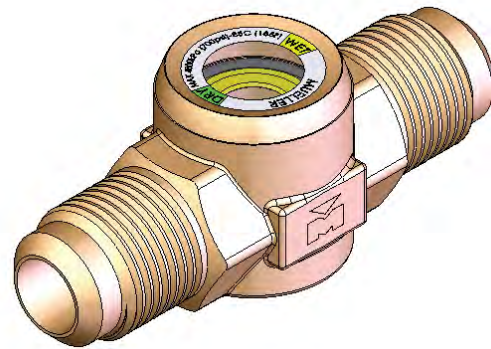
Solder Connection

Part No.	Model No.	Cubic Inches	Connection Size	Wt (lb)	A	Diameter B	Flow Capacity (Tons) at 2 psi Pressure Drop	Liquid Refrigerant Capacity (oz) at 100° F	Drying Capacity Drops of H ₂ O	
A 17389	HPS-083	8	3/8	1.5	5 5/8	2 1/4	5	8.4	106	75
A 17391	HPS-163	16	3/8	1.75	5 7/8	3 1/8	5.4	9.8	185	130
A 17392	HPS-164	16	1/2	1.75	6 1/8	3 1/8	9.2	9.8	185	130
A 17985	HPS-165	16	5/8	2	6 3/8	3 1/8	9.3	9.8	185	130

Sight Glass/Moisture Indicators, Hermetically Sealed

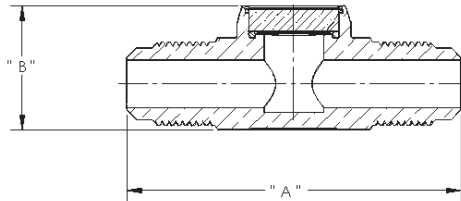
Look for these Mueller advantages:

- Maximum working pressure (PS): 700 psig, 48 bar
- Working temperature range (TS): -40°F/300°F, -40°C/149°C
- Compatible with all CFC, HCFC and HFC refrigerants and oils
- UL/cUL Recognized, CE Certified
- RoHS Compliant
- Solid brass construction, hermetically sealed
- Designed for maximum flow & minimum pressure drop
- Large viewing window and indicator for better visibility
- Provides accurate identification of system conditions



HFC & HCFC Refrigerants

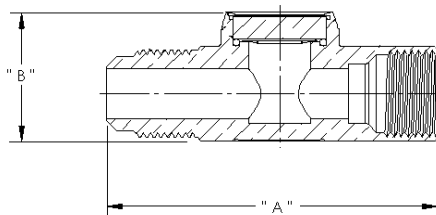
Refrigerant	Moisture content ppm			
	25°C (77°F) Liquid Refrigerant	43°C (109°F) Liquid Refrigerant	Green/Dry	Yellow/Wet
R22	<42	>120	<48	>190
R134a	<45	>130	<43	>170
R404A	<53	>150	<24	>175
R410A	<73	>250	<80	>270



External Flare x External Flare

Part No.	Connection (in)	Thread	A (in)	B (in)	Wt (lb)
A 18101	1/4	7/16"-20 UNF	2.76	1.06	0.34
A 18102	3/8	5/8"-18 UNF	2.99	1.06	0.39
A 18103	1/2	3/4-16 UNF	3.27	1.30	0.51
A 18104	5/8	7/8"-14 UNF	3.47	1.30	0.52

Part No.	Connection (in)	Thread	A (mm)	B (mm)	Wt (kg)
A 18101	1/4	7/16"-20 UNF	70	27	0.16
A 18102	3/8	5/8"-18 UNF	76	27	0.18
A 18103	1/2	3/4-16 UNF	83	33	0.23
A 18104	5/8	7/8"-14 UNF	88	33	0.24



External Flare x Internal Flare

Part No.	Connection (in)	Thread	A (in)	B (in)	Wt (lb)
A 18106	1/4	7/16"-20 UNF	2.44	1.06	0.57
A 18107	3/8	5/8"-18 UNF	2.99	1.34	0.78
A 18108	1/2	3/4-16 UNF	2.83	1.34	0.73

Part No.	Connection (in)	Thread	A (mm)	B (mm)	Wt (kg)
A 18106	1/4	7/16"-20 UNF	62	27	0.26
A 18107	3/8	5/8"-18 UNF	76	34	0.36
A 18108	1/2	3/4-16 UNF	72	34	0.33

Sight Glass/Moisture Indicators, Hermetically Sealed

VALVES

PROTECTION
DEVICES

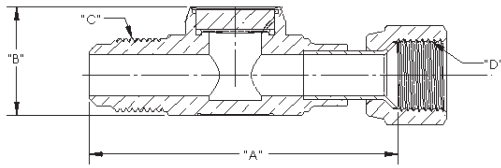
BRASS FITTINGS &
FLANGES

FABRICATION &
ASSEMBLIES

TERMS/POLICIES

CROSS REFERENCE

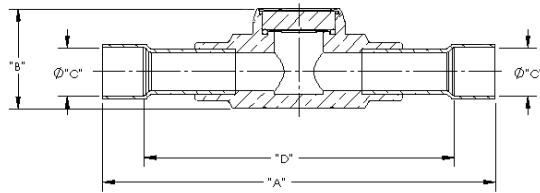
INDEX



External Flare x External Flare

Part No.	External Flare Conn. (in)	Thread	Internal Flare Conn. (in)	Internal Thread	A (in)	B (in)	Wt (lb)
A 18110	1/4	7/16"-20 UNF	1/4	7/16"-20 UNF	3.03	1.06	0.35
A 18111	3/8	5/8"-18 UNF	3/8	5/8"-18 UNF	3.11	1.06	0.62
A 18112	1/2	3/4"-16 UNF	1/2	3/4"-16 UNF	3.47	1.30	0.84
A 18113	5/8	7/8"-14 UNF	5/8	7/8"-14 UNF	3.70	1.30	0.63

Part No.	External Flare Conn. (in)	Thread	Internal Flare Conn. (in)	Internal Thread	A (mm)	B (mm)	Wt (kg)
A 18110	1/4	7/16"-20 UNF	1/4	7/16"-20 UNF	77	27	0.16
A 18111	3/8	5/8"-18 UNF	3/8	5/8"-18 UNF	79	27	0.28
A 18112	1/2	3/4"-16 UNF	1/2	3/4"-16 UNF	88	33	0.39
A 18113	5/8	7/8"-14 UNF	5/8	7/8"-14 UNF	94	33	0.29



Solder x Solder Extended Tube

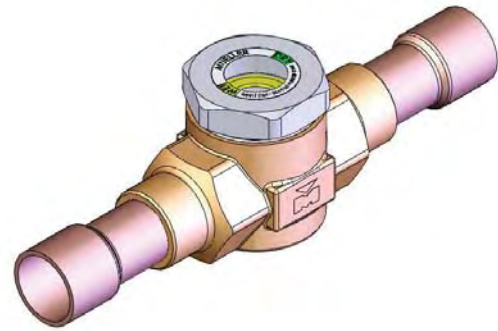
Part No.	Connection (in)	A (in)	B (in)	D (in)	Wt (lb)
A 18114	1/4	5.20	1.06	4.72	0.36
A 18115	3/8	5.12	1.06	4.33	0.39
A 18116	1/2	5.08	1.06	4.29	0.37
A 18117	5/8	5.12	1.30	4.02	0.52
A 18118	3/4	5.75	1.30	4.49	0.57

Part No.	Connection (mm)	A (mm)	B (mm)	D (mm)	Wt (kg)
A 18114	6	132	27	120	0.17
A 18115	10	130	27	110	0.18
A 18116	13	129	27	109	0.17
A 18117	16	130	33	102	0.24
A 18118	19	146	33	114	0.26

Sight Glass/Moisture Indicators, Replaceable Element

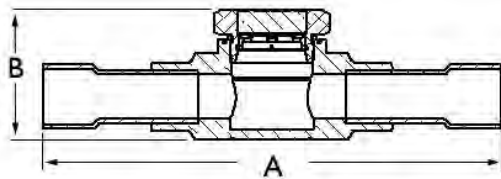
Look for these Mueller advantages:

- Maximum working pressure (PS): 700 psig, 48 bar
- Working temperature range (TS): -40°F/300°F, -40°C/149°C
- Compatible with all CFC, HCFC and HFC refrigerants and oils
- UL/cUL Recognized, CE Certified
- RoHS Compliant
- Solid brass construction, hermetically sealed
- Designed for maximum flow & minimum pressure drop
- Large viewing window and indicator for better visibility
- Provides accurate identification of system conditions



HFC & HCFC Refrigerants

Refrigerant	Moisture content ppm			
	25°C (77°F) Liquid Refrigerant		43°C (109°F) Liquid Refrigerant	
	Green/Dry	Yellow/Wet	Green/Dry	Yellow/Wet
R22	<42	>120	<48	>190
R134a	<45	>130	<43	>170
R404A	<53	>150	<24	>175
R410A	<73	>250	<80	>270



Solder x Solder Extended Tube

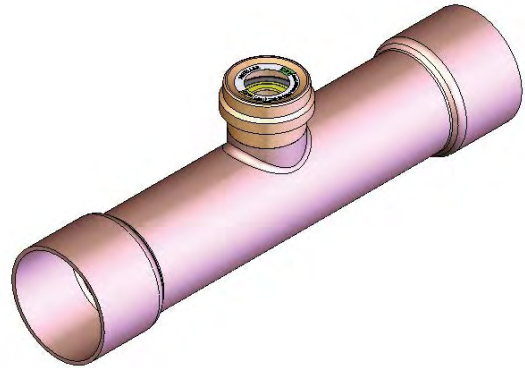
Part No.	Connection (in)	A (in)	B (in)	Wt (lb)
A 18096	1/4	5.2	1.06	0.33
A 18097	3/8	5.1	1.06	0.34
A 18098	1/2	5.1	1.06	0.35
A 18099	5/8	5.1	1.30	0.47
A 18100	3/4	5.75	1.30	0.52

Part No.	Connection (mm)	A (mm)	B (mm)	Wt (kg)
A 18096	6	132	27	0.15
A 18097	10	130	27	0.16
A 18098	13	129	27	0.16
A 18099	16	130	33	0.22
A 18100	19	146	33	0.24

Sight Glass/Moisture Indicators, Copper

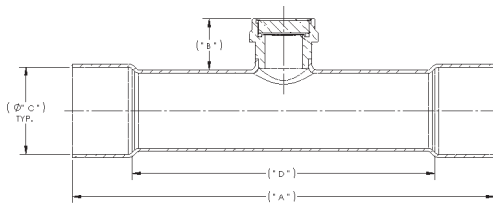
Look for these Mueller advantages:

- Maximum working pressure (PS): 700 psig, 48 bar
- Working temperature range (TS): -40°F/300°F, -40°C/149°C
- Compatible with all CFC, HCFC and HFC refrigerants and oils
- UL/cUL Recognized, CE Certified
- RoHS Compliant
- Solid brass construction, hermetically sealed
- Designed for maximum flow & minimum pressure drop
- Large viewing window and indicator for better visibility
- Provides accurate identification of system conditions



HFC & HCFC Refrigerants

Refrigerant	Moisture content ppm			
	25°C (77°F) Liquid Refrigerant		43°C (109°F) Liquid Refrigerant	
	Green/Dry	Yellow/Wet	Green/Dry	Yellow/Wet
R22	<42	>120	<48	>190
R134a	<45	>130	<43	>170
R404A	<53	>150	<24	>175
R410A	<73	>250	<80	>270



Solder x Solder

Part No.	Connection	A	B	D	Wt
	(in)	(in)	(in)	(in)	(lb)
A 18119	7/8	6.3	0.98	4.80	0.49
A 18120	1 1/8	6.3	0.98	4.49	0.63
A 18121	1 3/8	7.87	0.98	5.95	1.07
A 18122	1 5/8	7.87	0.98	5.71	1.12
A 18123	2 1/8	7.87	0.98	5.20	1.62

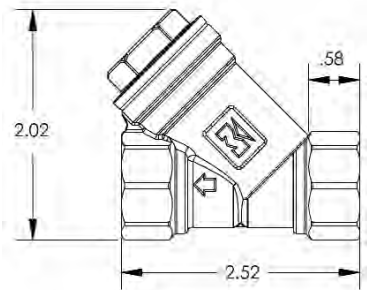
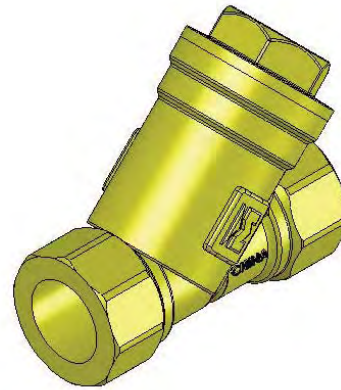
Part No.	Connection	A	B	D	Wt
	(mm)	(mm)	(mm)	(mm)	(kg)
A 18119	22	160	25	122	0.22
A 18120	29	160	25	114	0.29
A 18121	35	200	25	151	0.49
A 18122	41	200	25	145	0.51
A 18123	54	200	25	132	0.74

Strainers

Look for these Mueller advantages:

Brass Y Strainer

- Maximum working pressure (PS): 700 psig, 48 bar
- Working temperature range (TS): -40°F/300°F, -40°C/149°C
- Compatible with all CFC, HCFC and HFC refrigerants and oils
- UL/cUL Listed, CE Certified
- RoHS Compliant
- Forged brass construction



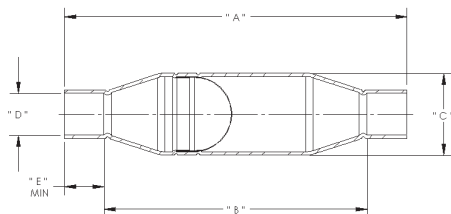
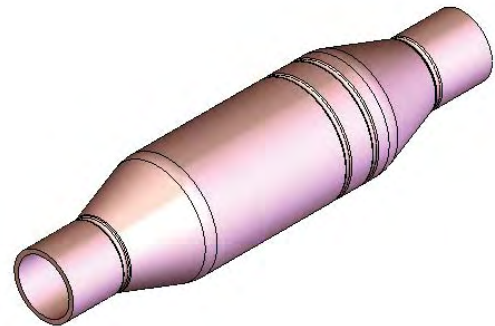
Brass Part No.	NPT	Screen Mesh
ASF18071	3/8	20
ASH18071	3/8	50
ASK18071	3/8	100
ASF18073	1/2	20
ASH18073	1/2	50
ASK18073	1/2	100

Brass Part No.	ODS	Screen Mesh
ASF18072	3/8	20
ASH18072	3/8	50
ASK18072	3/8	100
ASH18074	1/2	20
ASH18074	1/2	50
ASK18074	1/2	100

* Sub assemblies include a screen, plug and o-ring

Copper Inline Strainer

- Maximum working pressure (PS): 700 psig, 48 bar
- Working temperature range (TS): -40°F/300°F, -40°C/149°C
- Compatible with all CFC, HCFC and HFC refrigerants and oils
- UL/cUL Listed, CE Certified
- RoHS Compliant



Part No.	A	B	C	D	E	Internal Assembly Volume	Screen Mesh	Screen Area	Filtration Capacity	Wt (lb)
A18025	3.12	2.5	0.75	3/8	0.31	0.79	100	0.4	175	0.06

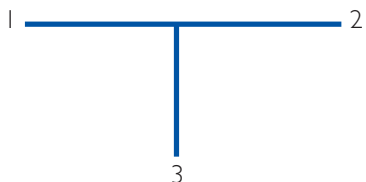
45° Flare Fittings

Look for these Mueller advantages:

- Recommended maximum working pressure (PS): 700 psig, 48 bar
- In conformance with Refrigeration Fitting Standards SAE J513, Military Standards MS-35867 through MS35873 inclusive, MS-35919, MS35926, and MS-16993
- Fabricated from brass forgings or drawn brass rod eliminating the possibility of seepage by porosity
- Accurately machined and fully protected against damage during shipping, handling and storage to assure tight leak-proof joints
- Smooth interior finish provides unrestricted flow and reduced pressure drop

Fitting Destinations

Tees are described by first sizing the run (1 to 2) and then the branch (3).



The letter in the first position of the catalog number is derived from the name of the fitting.

Examples:

- B** – Bonnets
- E** – Elbows
- F** – Fuse Plugs
- N** – Nuts
- T** – Tees
- U** – Unions

The numeral in the second position of the catalog number designates the combination of threads on the fitting:

- 1** – External pipe thread (U1, E1, T1)
- 2** – Flare to flare fitting (U2, E2, T2)
- 4** – Forged nut

Indicators preceding the numeral in the second position of the catalog number designate the following:

- R** – Internal pipe to flare fitting (excludes tees)
- R** – Pipe thread to flare on the run (tees)
- R** – Reducing flare nut (forged nuts)
- S** – Short (forged nuts)

The last two characters in the catalog number designate the size.

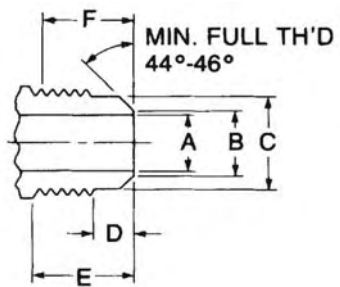
Flare sizes are designated by numerals.

- 3** – 3/16
- 4** – 1/4
- 5** – 5/16
- 6** – 3/8
- 8** – 1/2
- 10** – 5/8
- 12** – 3/4

Pipe sizes are designated letters.

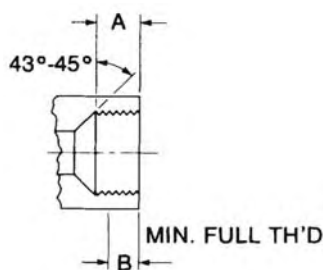
- A** – 1/8
- B** – 1/4
- C** – 3/8
- D** – 1/2
- E** – 3/4
- F** – 1

45° Flare Fittings



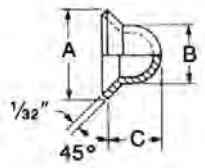
External Flare

Size Flare	A	B	C	D	E	Min. Full Thread F	Size Thread
3/16	1/8	5/32	19/64	1/8	7/16	3/8	3/8 – 24
1/4	3/16	7/32	11/32	5/32	1/2	13/32	7/16 – 20
5/16	7/32	1/4	13/32	3/16	9/16	15/32	1/2 – 20
3/8	9/32	5/16	17/32	7/32	5/8	17/32	5/8 – 18
1/2	13/32	7/16	41/64	1/4	3/4	21/32	3/4 – 16
5/8	1/2	17/32	3/4	9/32	7/8	3/4	7/8 – 14
3/4	5/8	23/32	15/16	9/32	1	29/32	1 1/16 – 14



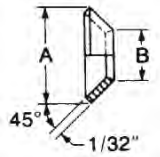
Internal Flare

Size Flare	A	Min. Full Thread B	Size Thread
3/16	9/32	7/32	3/8 – 24
1/4	11/32	17/64	7/16 – 20
5/16	3/8	19/64	1/2 – 20
3/8	7/16	11/32	5/8 – 18
1/2	17/32	7/16	3/4 – 16
5/8	21/32	35/64	7/8 – 14
3/4	25/32	43/64	1 1/16 – 14



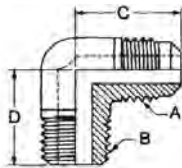
Copper Flare Seal Bonnets

Cat. No.	Part No.	Size Flare	A Max.	B +/- 1/64	C Min.	Pcs. Per Ctn.	Wt (lb)
B1-3	A 04737	3/16	5/16	5/32	5/32	25	0.001
B1-4	A 00414	1/4	23/64	7/32	7/32	100	0.001
B1-5	A 04935	5/16	27/64	9/32	9/32	50	0.004
B1-6	A 00415	3/8	35/64	23/64	11/32	25	0.004
B1-8	A 00416	1/2	21/32	15/32	13/32	100	0.008
B1-10	A 00485	5/8	49/64	39/64	7/16	20	0.009
B1-12	A 04738	3/4	61/64	23/32	9/16	25	0.015



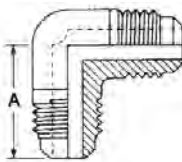
Copper Flare Gaskets

Cat. No.	Size\ Part No.	Flare	A Max.	B +/- 1/32	Pcs. Per Ctn.	Wt (lb)
B2-3	A 05156	3/16	5/16	1/8	50	0.001
B2-4	A 00401	1/4	23/64	3/16	100	0.001
B2-5	A 04811	5/16	27/64	7/32	50	0.001
B2-6	A 00402	3/8	35/64	9/32	100	0.002
B2-8	A 00403	1/2	21/32	13/32	100	0.002
B2-10	A 05186	5/8	49/64	1/2	50	0.003
B2-12	A 04822	3/4	61/64	5/8	25	0.004



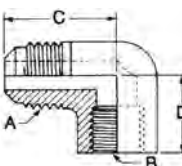
90° Elbows, Half Union - Flare to NPTF

Cat. No.	Part No.	Flare A	NPTF B	C	D	Pcs. Per Ctn.	Wt (lb)
E1-4A	A 00335	1/4	1/8	15/16	25/32	25	0.04
E1-4B	A 04890	1/4	1/4	29/32	15/16	25	0.08
E1-4C	A 04812	1/4	3/8	15/16	1 1/32	25	0.09
E1-6A	A 04937	3/8	1/8	1 1/32	29/32	25	0.08
E1-6B	A 00337	3/8	1/4	1 1/16	1 1/16	25	0.09
E1-6C	A 04889	3/8	3/8	1 1/16	1 3/32	25	0.11
E1-6D	A 04886	3/8	1/2	1 1/8	1 11/32	25	0.16
E1-8B	A 05044	1/2	1/4	1 7/32	1 3/16	10	0.13
E1-8C	A 00339	1/2	3/8	1 7/32	1 1/8	15	0.17
E1-8D	A 04887	1/2	1/2	1 9/32	1 3/8	15	0.17
E1-8E	A 05072	1/2	3/4	1 11/32	1 3/8	10	0.24
E1-10C	A 04856	5/8	3/8	1 15/32	1 1/4	10	0.17
E1-10D	A 04538	5/8	1/2	1 15/32	1 7/16	10	0.2
E1-10E	A 05054	5/8	3/4	1 15/32	1 1/2	10	0.26
E1-12D	A 04776	3/4	1/2	1 21/32	1 1/2	10	0.32
E1-12E	A 04746	3/4	3/4	1 21/32	1 5/8	10	0.35



90° Elbows, Union - Flare to Flare

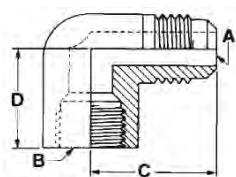
Cat. No.	Part No.	Size Flare	A	Pcs. Per Ctn.	Wt (lb)
E2-4	A 00147	1/4	29/32	25	0.07
E2-6	A 00146	3/8	1 1/16	25	0.1
E2-8	A 00145	1/2	1 7/32	15	0.14
E2-10	A 04539	5/8	1 15/32	10	0.21
E2-12	A 04745	3/4	1 21/32	5	0.39



90° Elbows - External Flare to NPTF

Cat. No.	Part No.	Flare A	NPTF B	C	D	Pcs. Per Ctn.	Wt (lb)
E3-4A	A 04630	1/4	1/8	29/32	29/32	25	0.06
E3-4B	A 05007	1/4	1/4	1 1/16	21/32	25	0.13
E3-6B	A 04632	3/8	1/4	1 1/8	1 1/8	25	0.15

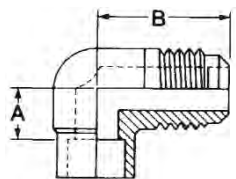
45° Flare Fittings



90° Elbows - External Flare to Internal Flare

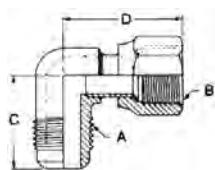
1 Soft Copper Gasket Furnished With Each Part

Cat. No.	Part No.	Flare	Flare		Pcs. Per Ctn.	Wt (lb)	
		A	B	C			D
E4-44	A 04898	1/4	1/4	15/16	7/8	25	0.13
E4-66	A 08082	3/8	3/8	1 7/32	1 1/16	25	0.24
E4-88	A 04897	1/2	1/2	1 11/32	1 1/8	15	0.22



90° Solder Elbows, Half Union - Flare to Solder

Cat. No.	Part No.	Flare	OD Solder	A	B	Pcs. Per Ctn.	Wt (lb)
ES2-44	A 03449	1/4	1/4	23/64	27/32	25	0.04
ES2-66	A 03511	3/8	3/8	15/32	1 5/64	20	0.08
ES2-68	A 07852	3/8	1/2	13/32	1 3/64	10	0.11
ES2-88	A 07851	1/2	1/2	15/32	1 7/32	—	0.12
ES2-1010	A 06611	5/8	5/8	35/64	1 13/32	—	0.19



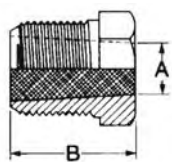
90° Swivel Elbows - External Flare to Internal Flare

Cat. No.	Part No.	Flare A	Flare B	C	D	Pcs. Per Ctn.	Wt (lb)
ES4-44	A 15940	1/4	1/4	29/32	1 1/4	4	0.13
ES4-66	A 15941	3/8	3/8	1 5/64	1 27/64	4	0.19
ES4-88	A 15943	1/2	1/2	1 7/32	1 17/32	4	0.22
ES4-1010	A 15944	5/8	5/8	1 13/32	1 3/4	4	0.31

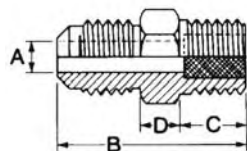
Fusible Pipe Plugs

Listed by Underwriters Laboratories, Inc., for use in the USA and Canada.

CE Compliant for European market.



Cat. No.	UL	CE	Size NPTFE	A		B		Melting Temp.*	Pcs. Per Ctn.	Wt (lb)	
	Part No.	Part No.		Hex	in.	cm	in.				cm
FP-A	A 14058	B 35133	1/8	7/16	7/32	0.56	19/32	1.51	283°F	10	0.02
FP-B	A 14059	B 35134	1/4	9/16	1/4	0.64	25/32	1.98	283°F	15	0.05
FP-C	A 14060	B 35135	3/8	11/16	3/8	0.95	27/32	2.14	283°F	15	0.08
FP-A	A 14017	B 35122	1/8	7/16	7/32	0.56	19/32	1.51	210°F	10	0.03
FP-B	A 14018	B 35123	1/4	9/16	1/4	0.64	25/32	1.98	210°F	15	0.05
FP-C	A 14021	B 35125	3/8	11/16	3/8	0.95	27/32	2.14	210°F	15	0.06
FP-A	A 15214	B 35139	1/8	7/16	7/32	0.56	19/32	1.51	168°F	10	0.02
FP-B	A 14019	B 35124	1/4	9/16	1/4	0.64	25/32	1.98	168°F	15	0.04
FP-C	A 14022	B 35126	3/8	11/16	3/8	0.95	27/32	2.14	168°F	15	0.06



Fusible Connectors, Half Union - Flare to NPTFE

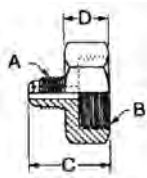
Listed by Underwriters Laboratories, Inc., for use in the USA and Canada.

CE Compliant for European market.

UL		CE	Size			A		B		C		D		Melting	Per	Wt
Cat. No.	Part No.	Part No	Flare	NPTFE	Hex	in.	cm	in.	cm	in.	cm	in.	cm	Temp.*	Ctn.	(lb)
FU-4B	A 14062	B 35136	1/4	1/4	9/16	3/16	0.48	1 1/4	3.18	9/16	1.43	3/16	0.48	283°F	10	0.07
FU-4C	A 14063	B 35137	1/4	3/8	11/16	3/16	0.48	1 5/16	3.33	9/16	1.43	1/4	0.64	283°F	10	0.09
FU-6C	A 14064	B 35138	3/8	3/8	11/16	9/32	0.71	1 7/16	3.65	9/16	1.43	1/4	0.64	283°F	10	0.12
FU-4B	A 14023	B 35127	1/4	1/4	9/16	3/16	0.48	1 1/4	3.18	9/16	1.43	3/16	0.48	210°F	10	0.06
FU-4C	A 14025	B 35129	1/4	3/8	11/16	3/16	0.48	1 5/16	3.33	9/16	1.43	1/4	0.64	210°F	10	0.09
FU-6C	A 14026	B 35130	3/8	3/8	11/16	9/32	0.71	1 7/16	3.65	9/16	1.43	1/4	0.64	210°F	10	0.12
FU-4B	A 14024	B 35128	1/4	1/4	9/16	3/16	0.48	1 1/4	3.18	9/16	1.43	3/16	0.48	168°F	10	0.06
FU-4C	A 14050	B 35132	1/4	3/8	11/16	3/16	0.48	1 5/16	3.33	9/16	1.43	1/4	0.64	168°F	10	0.09
FU-6C	A 14027	B 35131	3/8	3/8	11/16	9/32	0.71	1 7/16	3.65	9/16	1.43	1/4	0.64	168°F	10	0.13

*Melting Temperature Equivalents - 283°F (139°C), 210°F (99°C), 168°F (76°C).

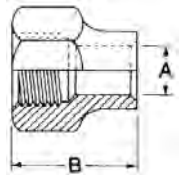




Refrigerant Drum Adapters

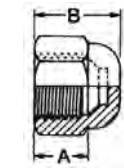
Flare to Internal Straight Pipe (NPSM) Furnished with Gasket

Cat. No.	Part No.	Flare A	NPSM B	C	D	Hex	Pcs. Per Ctn.	Wt (lb)	Replacement Gasket
KI-1	A 08073	1/4	3/4	1 1/8	7/16	1 1/4	10	0.16	A 08074
KI-3	A 08274	3/8	3/4	1 1/4	7/16	1 1/4	10	0.19	A 08074
KI-5	A 08276	1/2	3/4	1 3/8	7/16	1 1/4	10	0.19	A 08074
KI-8	A 08166	1/4	1/2	1 1/8	7/16	1 1/8	10	0.15	A 08167



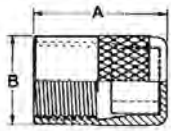
Long Forged Nuts*

Cat. No.	Part No.	F Flare	Size Tube	Hex	Min.	A Max.	B	Pcs. Per Ctn.	Wt (lb)
N4-4	A 00440	1/4	1/4	5/8	0.255	0.26	15/16	25	0.06
N4-5	A 01110	5/16	5/16	11/16	0.317	0.322	15/16	25	0.05
N4-6	A 00441	3/8	3/8	13/16	0.38	0.385	1 1/16	25	0.08
N4-8	A 00442	1/2	1/2	15/16	0.505	0.51	1 3/16	10	0.13
N4-10	A 01112	5/8	5/8	1 1/16	0.63	0.635	1 7/16	5	0.19
N4-12	A 04731	3/4	3/4	1 5/16	0.755	0.76	1 3/4	5	0.36



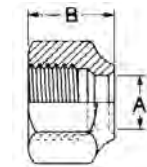
Flare Seal Caps

Cat. No.	Part No.	Size Flare	A	B	Size Hex	Pcs. Per Ctn.	Wt (lb)
N5-4	A 04544	1/4	11/32	9/16	9/16	50	0.03
N5-5	A 04758	5/16	3/8	9/16	5/8	25	0.03
N5-6	A 04545	3/8	7/16	11/16	3/4	25	0.05
N5-8	A 04546	1/2	35/64	13/16	7/8	25	0.08
N5-10	A 04560	5/8	5/8	15/16	1 1/16	10	0.14
N5-12	A 04951	3/4	3/4	1 3/32	1 5/16	10	0.21



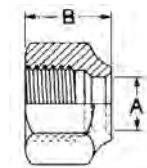
Flare Seal Caps - Finger Tightening With Neoprene Seal Gasket

Cat. No.	Part No.	Size Flare	A	B	Pcs. Per Ctn.	Wt (lb)
NFT5-4	A 16447	1/4	9/16	31/64	3500	0.02
NFT5-6	A 16448	3/8	47/64	43/64	1400	0.04



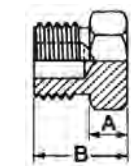
Short Forged Reducing Nuts*

Cat. No.	Part No.	F Flare	Size Tube	Hex	Min.	A Max.	B	Pcs. Per Ctn.	Wt (lb)
NRS4-43	A 05132	1/4	3/16	5/8	0.192	0.197	19/32	10	0.04
NRS4-54	A 05247	5/16	1/4	11/16	0.255	0.26	5/8	10	0.04
NRS4-64	A 05140	3/8	1/4	13/16	0.255	0.26	11/16	25	0.06
NRS4-65	A 05282	3/8	5/16	13/16	0.32	0.325	11/16	10	0.06
NRS4-86	A 05141	1/2	3/8	15/16	0.38	0.385	13/16	15	0.10
NRS4-108	A 05228	5/8	1/2	1 1/16	0.505	0.51	15/16	15	0.13



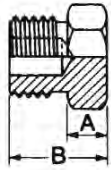
Short Forged Nuts*

Cat. No.	Part No.	F Flare	Size Tube	Hex	Min.	A Max.	B	Pcs. Per Ctn.	Wt (lb)
NS4-3	A 05238	3/16	3/16	1/2	0.192	0.197	17/32	50	0.02
NS4-4	A 05051	1/4	1/4	5/8	0.255	0.26	19/32	50	0.04
NS4-5	A 05239	5/16	5/16	11/16	0.317	0.32	5/8	25	0.04
NS4-6	A 05052	3/8	3/8	13/16	0.38	0.385	11/16	25	0.06
NS4-8	A 05053	1/2	1/2	15/16	0.505	0.51	13/16	15	0.08
NS4-10	A 05157	5/8	5/8	1 1/16	0.63	0.635	15/16	10	0.12
NS4-12	A 05222	3/4	3/4	1 5/16	0.755	0.76	1 1/8	10	0.24



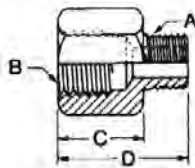
Flare Plugs

Cat. No.	Part No.	Size Flare	A	B	Size Hex	Pcs. Per Ctn.	Wt (lb)
P2-3	A 05045	3/16	5/32	19/32	3/8	15	0.01
P2-4	A 00121	1/4	3/16	11/16	7/16	25	0.02
P2-5	A 00124	5/16	7/32	25/32	1/2	15	0.03
P2-6	A 00122	3/8	1/4	7/8	5/8	25	0.06
P2-8	A 00123	1/2	5/16	1 1/16	3/4	25	0.09
P2-10	A 04536	5/8	5/16	1 3/16	7/8	15	0.14
P2-12	A 04757	3/4	5/16	1 5/16	1 1/16	10	0.23



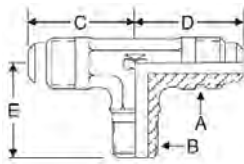
Pipe Plugs - Brass

Cat. No.	Part No.	Size NPTFE	A	B	Size Hex	Pcs. Per Ctn.	Wt (lb)
P3-A	A 00250	1/8	3/16	5/8	1/2	50	0.03
P3-B	A 00249	1/4	1/4	13/16	1 1/16	50	0.06
P3-C	A 00425	3/8	1/4	3/4	1 1/16	25	0.07
P3-D	A 04759	1/2	5/16	7/8	7/8	25	0.13
P3-E	A 05004	3/4	5/16	1 1/32	1 1/8	10	0.21
P3-F	A 04850	1	5/16	1 1/16	1 5/16	10	0.27



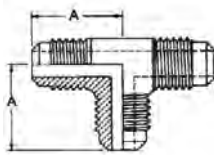
Bushings - External Pipe Thread to Internal Pipe Thread

Cat. No.	Part No.	NPTFE A	NPTFI B	C	D	Size Hex	Pcs. Per Ctn.	Wt (lb)
RI-AB	A 08756	1/8	1/4	39/64	59/64	1 1/16	25	0.05
RI-BA	A 00630	1/4	1/8	3/16	1 1/16	9/16	25	0.02
RI-CB	A 00631	3/8	1/4	1/4	3/4	1 1/16	25	0.04
RI-DB	A 00492	1/2	1/4	9/32	27/32	7/8	25	0.08
RI-DC	A 00632	1/2	3/8	9/32	27/32	7/8	25	0.05
RI-EC	A 00493	3/4	3/8	5/16	59/64	1 1/16	10	0.11
RI-ED	A 00633	3/4	1/2	5/16	59/64	1 1/16	10	0.09



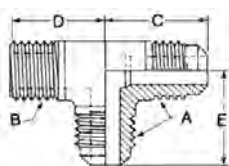
Two-Way Tees

Cat. No.	Part No.	Flare A	NPTFE B	C & D	E	Pcs. Per Ctn.	Wt (lb)
T1-4A	A 00345	1/4	1/8	15/16	13/16	25	0.07
T1-4B	A 04859	1/4	1/4	29/32	1 1/32	25	0.09
T1-4C	A 04771	1/4	3/8	15/16	1 1/32	15	0.12
T1-6B	A 00347	3/8	1/4	1 1/16	1 1/16	25	0.11
T1-6C	A 04922	3/8	3/8	1 1/16	1 1/16	15	0.14
T1-8B	A 05246	1/2	1/4	1 7/32	1 3/16	12	0.18
T1-8C	A 00349	1/2	3/8	1 7/32	1 1/8	15	0.19
T1-8D	A 04924	1/2	1/2	1 11/32	1 3/8	10	0.26
T1-10D	A 04754	5/8	1/2	1 13/32	1 3/8	10	0.28



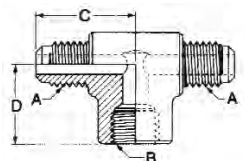
Three-Way Tees

Cat. No.	Part No.	Size Flare	A	Pcs. Per Ctn.	Wt (lb)
T2-4	A 00340	1/4	15/16	25	0.07
T2-6	A 00342	3/8	1 1/16	15	0.17
T2-8	A 00344	1/2	1 7/32	15	0.20
T2-10	A 04541	5/8	1 13/32	10	0.30
T2-12	A 04749	3/4	1 21/32	5	0.68



Right Angle Two-Way Tees

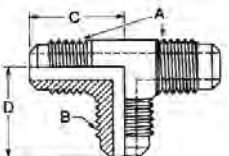
Cat. No.	Part No.	Flare A	NPTFE B	C	D	E	Pcs. Per Ctn.	Wt (lb)
T3-4A	A 00127	1/4	1/8	15/16	51/64	15/16	25	0.08
T3-4B	A 04998	1/4	1/4	15/16	1 1/16	15/16	25	0.11
T3-6B	A 00133	3/8	1/4	1 1/16	1 1/16	1 1/16	25	0.14
T3-6C	A 04941	3/8	3/8	1 1/16	1 3/32	1 1/16	25	0.15
T3-8C	A 04778	1/2	3/8	1 7/32	1 1/8	1 7/32	15	0.18
T3-8D	A 04944	1/2	1/2	1 11/32	1 3/8	1 11/32	10	0.26
T3-10D	A 04779	5/8	1/2	1 13/32	1 3/8	1 13/32	10	0.28



Three-Way Tees, Internal Branch

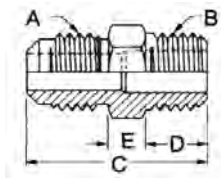
1 Soft Copper Gasket Furnished With Each Part

Cat. No.	Part No.	Flare A	Flare B	C	D	Pcs. Per Ctn.	Wt (lb)
T6-4	A 06330	1/4	1/4	15/16	29/32	25	0.14



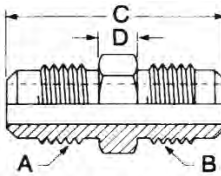
Three-Way Tees

Cat. No.	Part No.	Flare A	NPTFE B	C	D	Pcs. Per Ctn.	Wt (lb)
TR2-46	A 04994	1/4	3/8	29/32	1 1/16	25	0.11
TR2-64	A 04574	3/8	1/4	1 1/16	29/32	25	0.12
TR2-68	A 04547	3/8	1/2	1 1/8	1 7/32	15	0.19
TR2-84	A 04558	1/2	1/4	1 7/32	31/32	10	0.21
TR2-86	A 04559	1/2	3/8	1 7/32	1 1/8	15	0.22
TR2-810	A 04991	1/2	5/8	1 11/32	1 13/32	10	0.28



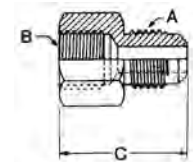
Connectors, Half Union - Flare to NPTFE

Cat. No.	Part No.	Flare	NPTFE	C	D	E	Size	Pcs.	Wt (lb)	
		A	B				Hex	Per Ctn.		
UI-3A	A 01117	3/16	1/8	1	3/8	3/16	7/16	15	0.03	
UI-4A	A 00330	1/4	1/8	1	1/16	3/8	7/16	25	0.03	
UI-4B	A 04585	1/4	1/4	1	1/4	9/16	9/16	25	0.05	
UI-4C	A 01197	1/4	3/8	1	5/16	9/16	1/4	11/16	25	0.07
UI-4D	A 04628	1/4	1/2	1	9/16	3/4	5/16	7/8	25	0.11
UI-5A	A 00331	5/16	1/8	1	5/32	3/8	5/16	1/2	25	0.04
UI-5B	A 05036	5/16	1/4	1	11/32	9/16	7/32	9/16	25	0.06
UI-5C	A 01198	5/16	3/8	1	3/8	9/16	1/4	11/16	25	0.08
UI-6A	A 05003	3/8	1/8	1	1/4	3/8	1/4	5/8	25	0.07
UI-6B	A 00332	3/8	1/4	1	7/16	9/16	1/4	5/8	25	0.08
UI-6C	A 01199	3/8	3/8	1	7/16	9/16	1/4	11/16	25	0.09
UI-6D	A 04993	3/8	1/2	1	11/16	3/4	5/16	7/8	25	0.14
UI-8A	A 05034	1/2	1/8	1	7/16	3/8	5/16	3/4	10	0.10
UI-8B	A 04439	1/2	1/4	1	5/8	9/16	5/16	3/4	10	0.11
UI-8C	A 00334	1/2	3/8	1	5/8	9/16	5/16	3/4	10	0.11
UI-8D	A 04780	1/2	1/2	1	13/16	3/4	5/16	7/8	10	0.15
UI-8E	A 05066	1/2	3/4	1	15/16	3/4	7/16	1 1/16	10	0.21
UI-10B	A 05035	5/8	1/4	1	13/16	9/16	3/8	7/8	10	0.16
UI-10C	A 01195	5/8	3/8	1	13/16	9/16	3/8	7/8	10	0.17
UI-10D	A 04540	5/8	1/2	2	3/4	3/8	7/8	10	0.18	
UI-10E	A 04827	5/8	3/4	2	1/16	3/4	7/16	1 1/16	5	0.24
UI-12C	A 05005	3/4	3/8	2	9/16	7/16	1 1/16	25	0.27	
UI-12D	A 04739	3/4	1/2	2	3/16	3/4	7/16	1 1/16	5	0.25
UI-12E	A 04740	3/4	3/4	2	3/16	3/4	7/16	1 1/16	5	0.33



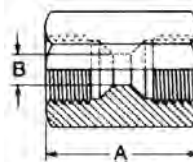
Unions - Flare to Flare

Cat. No.	Part No.	Flare A	Flare B	C	D	Size Hex	Pcs. Per Ctn.	Wt (lb)
U2-3	A 04621	3/16	3/16	1 1/16	3/16	3/8	25	0.03
U2-4	A 00325	1/4	1/4	1 3/16	3/16	7/16	25	0.04
U2-5	A 00326	5/16	5/16	1 11/32	7/32	1/2	25	0.06
U2-6	A 00327	3/8	3/8	1 1/2	1/4	5/8	25	0.09
U2-8	A 00329	1/2	1/2	1 13/16	5/16	3/4	15	0.15
U2-10	A 04845	5/8	5/8	2 1/8	3/8	7/8	10	0.22
U2-12	A 04733	3/4	3/4	2 7/16	7/16	1 1/16	10	0.37



Connectors, Half Union - Flare to NPTFI

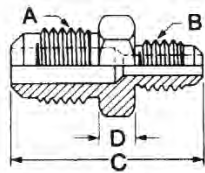
Cat. No.	Part No.	Flare A	NPTFI B	C	Size Hex	Pcs. Per Ctn.	Wt (lb)
U3-4A	A 04622	1/4	1/8	1 1/32	9/16	25	0.04
U3-4B	A 04625	1/4	1/4	1 1/4	11/16	25	0.07
U3-4C	A 04961	1/4	3/8	1 9/32	13/16	15	0.08
U3-6A	A 04927	3/8	1/8	1 1/8	5/8	10	0.06
U3-6B	A 04624	3/8	1/4	1 5/16	11/16	25	0.09
U3-6C	A 04627	3/8	3/8	1 3/8	13/16	15	0.10
U3-6D	A 08104	3/8	1/2	1 5/8	1	15	0.16
U3-8B	A 04928	1/2	1/4	1 13/32	3/4	15	0.11
U3-8C	A 04727	1/2	3/8	1 1/2	13/16	15	0.12
U3-8D	A 04728	1/2	1/2	1 3/4	1	15	0.18
U3-10C	A 04929	5/8	3/8	1 19/32	7/8	10	0.15
U3-10D	A 04819	5/8	1/2	1 13/16	1	10	0.20
U3-10E	A 04977	5/8	3/4	1 29/32	1 1/4	10	0.36



Internal Flare Unions

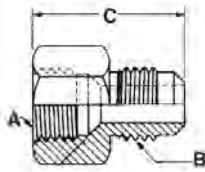
2 Soft Copper Gaskets Furnished With Each Part

Cat. No.	Part No.	Flare	Hex	A	B	Pcs. Per Ctn.	Wt (lb)
U4-4	A 00385	1/4	5/8	1	1/4	10	0.08
U4-6	A 00386	3/8	13/16	1	1/4	10	0.12
U4-8	A 00387	1/2	15/16	1	7/16	10	0.19



Reducing Unions - Flare to Flare

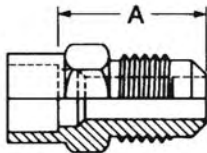
Cat. No.	Part No.	Flare A	Flare B	C	D	Size Hex	Pcs. Per Ctn.	Wt (lb)
UR2-43	A 05270	1/4	3/16	1	1/8	3/16	15	.03
UR2-54	A 08730	5/16	1/4	1	9/32	7/32	10	.05
UR2-64	A 01171	3/8	1/4	1	3/8	1/4	15	.07
UR2-65	A 04981	3/8	5/16	1	7/16	1/4	10	.08
UR2-84	A 00356	1/2	1/4	1	9/16	5/16	15	.12
UR2-86	A 00149	1/2	3/8	1	11/16	5/16	25	.14
UR2-106	A 05334	5/8	3/8	1	7/8	3/8	10	.18
UR2-108	A 04846	5/8	1/2	2	3/8	7/8	12	.19
UR2-128	A 04734	3/4	1/2	2	3/16	7/16	1	.31
UR2-1210	A 04784	3/4	5/8	2	5/16	7/16	1	.33



Internal Flare to External Flare Unions

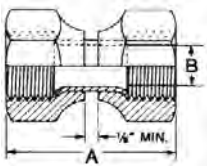
1 Soft Copper Gasket Furnished With Each Part

Cat. No.	Part No.	Flare A	Flare B	C	Size Hex	Pcs. Per Ctn.	Wt (lb)
UR3-43	A 05147	1/4	3/16	1 1/32	5/8	10	0.05
UR3-46	A 05041	1/4	3/8	1 1/8	5/8	15	0.04
UR3-48	A 08127	1/4	1/2	1 1/4	3/4	10	0.11
UR3-64	A 00479	3/8	1/4	1 7/32	13/16	15	0.09
UR3-68	A 04888	3/8	1/2	1 13/32	13/16	15	0.12
UR3-84	A 00480	1/2	1/4	1 3/8	15/16	15	0.11
UR3-86	A 00481	1/2	3/8	1 7/16	15/16	15	0.13
UR3-810	A 04879	1/2	5/8	1 5/8	15/16	10	0.19
UR3-108	A 04770	5/8	1/2	1 11/16	1 1/16	10	0.18
UR3-1012	A 04878	5/8	3/4	1 29/32	1 1/16	10	0.29
UR3-1210	A 04826	3/4	5/8	1 31/32	1 5/16	10	0.30



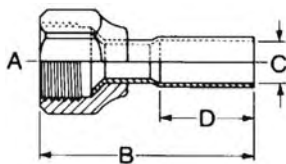
External Flare Connectors, Half Union - External Flare to Solder

Cat. No.	Part No.	Size Flare	OD Solder	A	Size Hex	Pcs. Per Ctn.	Wt (lb)
US3-44	A 03431	1/4	1/4	1 1/16	7/16	25	0.03
US3-45	A 03466	1/4	5/16	1 1/16	7/16	25	0.04
US3-46	A 03494	1/4	3/8	1 1/16	1/2	25	0.03
US3-64	A 03443	3/8	1/4	7/8	5/8	25	0.08
US3-65	A 03464	3/8	5/16	7/8	5/8	25	0.07
US3-66	A 03492	3/8	3/8	7/8	5/8	25	0.06
US3-68	A 03547	3/8	1/2	7/8	5/8	10	0.08
US3-610	A 06601	3/8	5/8	7/8	3/4	10	0.08
US3-86	A 03504	1/2	3/8	1 1/16	3/4	25	0.11
US3-88	A 03546	1/2	1/2	1 1/16	3/4	15	0.11
US3-810	A 02259	1/2	5/8	1 1/16	3/4	10	0.10
US3-108	A 03519	5/8	1/2	1 1/4	7/8	10	0.16
US3-1010	A 02258	5/8	5/8	1 1/4	7/8	10	0.15
US3-1012	A 02272	5/8	3/4	1 1/4	7/8	10	0.15
US3-1014	A 02378	5/8	7/8	1 1/4	1	10	0.17
US3-1212	A 05307	3/4	3/4	1 7/16	1 1/16	5	0.25
US3-1214	A 05425	3/4	7/8	1 5/16	1 1/16	5	0.28



Internal Flare Swivel Unions

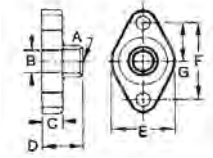
Cat. No.	Part No.	Flare	Hex	A	B	Pcs. Per Ctn.	Wt (lb)
US4-4	A 13563	1/4	5/8	1 3/8	3/16	15	0.12
US4-5	A 13564	5/16	11/16	1 7/16	1/4	15	0.10
US4-6	A 13565	3/8	13/16	1 9/16	5/16	15	0.16
US4-8	A 13567	1/2	15/16	1 13/16	7/16	15	0.24
US4-10	A 13568	5/8	1 1/16	2 1/16	9/16	15	0.35



Internal Flare to Extension Solder

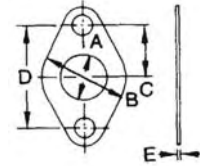
Cat. No.	Part No.	A	B	C	D	Pcs. Per Ctn	Wt (lb)
US5-44	A 15725	1/4	1 5/8	1/4	13/16	25	0.042
US5-66	A 15726	3/8	1 11/16	3/8	13/16	25	0.061
US5-88	A 15727	1/2	1 15/16	1/2	7/8	20	0.104
US5-1010	A 15728	5/8	2 5/16	5/8	1	10	0.161
US5-1212	A 15729	3/4	2 7/8	3/4	1 1/4	10	0.218

Flanges - Forged Brass - 2 Bolt-Hole, With Serrated Gasket Surface



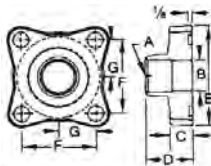
Part No.	Size OD Solder		C	D	E	Bolt Hole Centers		Dia of Bolt Holes	Wt
	A	B				F	G		
A 08314	5/8	9/16	3/4	1 3/16	1 1/2	1 5/8	13/16	11/32	0.45
A 05299	3/4	11/16	3/4	1 5/16	1 1/2	1 5/8	13/16	3/8	0.42
A 09215	7/8	13/16	3/4	1 7/16	1 1/2	1 5/8	13/16	11/32	0.42
A 08315	7/8	13/16	3/4	1 7/16	2 1/4	2 3/4	1 3/8	17/32	1.08
A 05151	1 1/8	1 1/16	3/4	1 9/16	2 1/4	2 3/4	1 3/8	17/32	1.11
A 05074	1 3/8	1 9/64	3/4	1 17/32	2 1/4	2 3/4	1 3/8	17/32	1.00

Gaskets - 2 Bolt-Hole, Asbestos-Free Material



Part No.	A	B	C	Bolt Hole Centers		Dia Of Bolt Holes	Wt
				D	E		
A 04582	9/16	1 1/8	13/16	1 5/8	1/32	11/32	0.003
N 02308	13/16	1 1/2	13/16	1 5/8	1/32	11/32	0.004
N 02307	13/16	1 1/2	7/8	1 3/4	1/32	11/32	0.004
A 05152	1 3/16	2 1/4	1 3/8	2 3/4	1/16	17/32	0.002

Flanges - Forged Brass - 4 Bolt-Hole with Groove Groove Diameters 2 25/32" x 2 1/16"

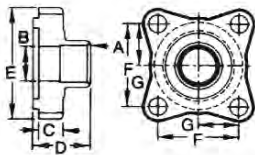


Part No.	Size Solder		C	D	E	Bolt Hole Centers		Dia of Bolt Holes	Wt
	A	B				F	G		
A 08630	1 1/8	1 1/16	3/4	1 9/16	3 13/32	2 1/2	1 1/4	17/32	1.88
A 08631	1 3/8	1 9/64	3/4	1 5/8	3 13/32	2 1/2	1 1/4	17/32	1.75
A 08261	1 5/8	1 17/32	3/4	1 3/4	3 13/32	2 1/2	1 1/4	17/32	1.69
A 08633	2 1/8	1 15/16	3/4	1 23/32	3 13/32	2 1/2	1 1/4	17/32	1.38

Gasket - Asbestos-free material

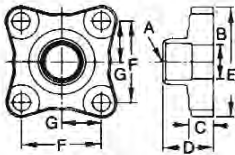
Part No. A 8634 used for 4 bolt-hole tongue and groove flanges.

Flanges - Forged Brass - 4 Bolt-Hole with Tongue Groove Diameters 2 3/4" x 2 3/16"



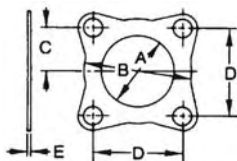
Part No.	Size Solder		C	D	E	Bolt Hole Centers		Dia of Bolt Holes	Wt
	A	B				F	G		
A 08629	1 1/8	1 1/16	3/4	1 23/32	3 13/32	2 1/2	1 1/4	17/32	2.06
A 05150	1 3/8	1 9/64	3/4	1 25/32	3 13/32	2 1/2	1 1/4	17/32	2.00
A 05148	1 5/8	1 17/32	3/4	1 29/32	3 13/32	2 1/2	1 1/4	17/32	1.94
A 08632	2 1/8	1 15/16	3/4	1 7/8	3 13/32	2 1/2	1 1/4	17/32	1.63

Flanges - Forged Brass - 4 Bolt-Hole with Flat Gasket Surface



Part No.	Size Solder		C	D	E	Bolt Hole Centers		Dia of Bolt Holes	Wt
	A	B				F	G		
A 08624	1 1/8	1 1/16	3/4	1 9/16	3 13/32	2 1/2	1 1/4	17/32	1.94
A 08625	1 3/8	1 9/64	3/4	1 5/8	3 13/32	2 1/2	1 1/4	17/32	1.88
A 08626	1 5/8	1 17/32	3/4	1 13/16	3 13/32	2 1/2	1 1/4	17/32	1.88
A 08627	2 1/8	1 1/64	3/4	1 23/32	3 13/32	2 1/2	1 1/4	17/32	1.50

Gaskets - 4 Bolt-Hole Asbestos-Free Compound



Part No.	A	B	C	D	E	Dia of Bolt Holes	Wt
A 08628	2 1/16	3	1 1/4	2 1/2	1/32	9/16	0.01

Fabricated Tube & Assemblies

Look for these Mueller advantages:

- Custom product built to OEM specifications
- Cost engineered for maximum efficiency and value

Products

- 1/4" through 3-1/8" OD Tube Copper, Steel and Aluminum
- Precision Bending
 - Single or Complex
 - Multiple Radii
- Copper Manifolds and Manifold Assemblies
- Complex Tubular Assemblies
 - Brazed and Welded with valves and various components
 - Fully Tested
- Engineering Services and Design

Capabilities

- End forming
- Bending; mandrel and non-mandrel bends
- Drilling, Punching, Cutting
- "T-Drill" Technology
- Brazing
 - AWS Certified Braze Technicians
 - Hand, induction, and furnace braze capabilities
- Robotic Welding
- High Pressure Leak Testing
- Assembly
 - Short Run Production
 - High Volume Automation
- High Speed CNC Tube Fabrication
- Warehousing



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THE FOLLOWING CONSTITUTE THE TERMS AND CONDITIONS OF SALE FOR ALL PRODUCTS MANUFACTURED, DISTRIBUTED AND/OR SOLD BY MUELLER REFRIGERATION PRODUCTS COMPANY (SELLER).

ACCEPTANCE OF SELLER'S OFFER TO SELL OR BUYER'S ORDER IS EXPRESSLY MADE CONDITIONAL ON BUYER'S ACCEPTANCE OF THE PROVISIONS STATED HEREIN. BUYER'S ACCEPTANCE OF EACH SHIPMENT OF GOODS SHALL BE DEEMED TO BE AN ACCEPTANCE OF THE PROVISIONS HEREOF NOTWITHSTANDING ANY ACT OF SELLER, INCLUDING SHIPMENT, ACCEPTANCE OF PAYMENTS, AND NOTWITHSTANDING ANY TERM OR CONDITION CONTAINED IN ANY FORM OF BUYER, AND ANY PROPOSAL FOR ADDITIONAL OR DIFFERENT TERMS OR ANY ATTEMPT BY BUYER TO VARY ANY OF THE PROVISIONS HEREIN IS HEREBY DEEMED A MATERIAL ALTERATION AND REJECTED. THE PROVISIONS HEREIN MAY NOT BE ADDED TO, MODIFIED, SUPERSEDED, OR ALTERED EXCEPT BY WRITTEN AGREEMENT OR MODIFICATION SIGNED BY AN OFFICER OF SELLER, NOTWITHSTANDING ANY TERMS WHICH MAY NOW OR IN THE FUTURE APPEAR ON BUYER'S FORMS OR COMMUNICATIONS, ALL OF WHICH ARE REJECTED WITHOUT FURTHER ACTION OF SELLER.

NO PERSON (EXCEPT AN OFFICER OF SELLER) IS AUTHORIZED TO BIND SELLER TO ANY ORDER FOR ANY GOODS EXCEPT ACCORDING TO THE PROVISIONS HEREIN.

1. PRICES. All prices for SELLER's products are subject to change or withdrawal without notice. Unless otherwise stated by SELLER, prices, terms of payment and pricing policies will be those of the SELLER in effect at the time of shipment. SELLER reserves the right to make price changes within the periods of contracts, including installment contracts or blanket orders. The cost of packing and crating other than in accordance with the standards of SELLER may constitute an additional charge and may at SELLER's discretion be added to the sales price(s). SELLER also reserves the right to divide Buyer's order into separate shipments and to invoice and otherwise treat each shipment as a separate contract subject to these Terms and Conditions. All sales and shipments are subject at all times to credit approval by SELLER.

2. TRANSPORTATION AND RISK OF LOSS. Unless otherwise agreed in advance in writing by SELLER, delivery of products hereunder shall be F.O.B. shipping point, with transportation expenses paid by Buyer unless standard SELLER freight prepayment qualifications are met and the risk of loss or damage to products in transit shall fall upon Buyer (whose responsibility it shall be to file claims with carrier at delivery to Buyer at Buyer's premises) upon delivery (a) to Buyer's designated representative, or (b) to a common carrier or other designated shipper (not including SELLER), whichever of the foregoing occurs earlier. SELLER in its discretion shall select the appropriate transportation method and routing. All orders, unless otherwise agreed in writing, are for shipment at SELLER's earliest convenience. Stated delivery dates are approximate and will be calculated from the date that SELLER has received all information necessary to permit SELLER to proceed with work immediately and without interruption. If any or all products are not delivered when ready due to the request of Buyer, SELLER reserves the right to invoice Buyer at any time thereafter and to place such products in storage with all risk of loss or damage borne by Buyer and with all expenses and costs attributable thereto for the account of Buyer, which shall be payable by Buyer upon submission of SELLER's invoices to Buyer.

3. DELAYS. SELLER shall not be liable for any delays in delivery due or resulting in whole or in part from or made impossible or impractical by any cause beyond the control of SELLER including but not limited to fire, explosion, epidemics, accident, material and significant breakdown, strike or labor disputes, adverse weather conditions, loss or

damage in shipment, shortage or lack of materials, fuel or power, sale or transfer of manufacturing facilities, embargo, acts of God, acts (including delay or failure to act) of any governmental authority (de jure or de facto) or any other contingency or delay or failure or cause beyond SELLER's control. If, due to any such occurrence, SELLER is unable to supply total demands for any goods specified, SELLER may, but shall not be obligated to, allocate production, inventory and deliveries (in any manner fair and reasonable to the extent that goods are not special or unique) and will notify Buyer reasonably that there will be delay or non-delivery.

4. TAXES. All prices are exclusive of any applicable foreign or U.S.A. federal, state or local sales, use, excise or other taxes, which SELLER may be required to pay or collect, under any existing or future law, upon or with respect to the sale, delivery, storage, processing, use or consumption of any of the products covered hereby, which shall be for the account of Buyer, who shall promptly pay the amount thereof to SELLER upon demand.

5. PAYMENT TERMS AND SECURITY INTEREST. Payment terms are set forth in SELLER's quotation to BUYER. All payments not made within such time may be subject to a carrying charge of one percent per month on the unpaid balance or the highest rate permitted by applicable law, whichever is less. Until the entire amount due hereunder is paid, SELLER reserves a security interest in all products sold, with all rights, privileges and remedies of a selling secured party in the jurisdiction to which the goods may be shipped or within which they may be kept at any time. In pursuance thereof, Buyer agrees to timely execute any documents that SELLER may request from time to time in order to give notice of, perfect or otherwise give effect to the existence of said security interest.

6. TERMINATION. Any cancellations, changes, or terminations by Buyer received after order placement will be subject to Seller's approval and payment by Buyer of all actual expenses incurred or for which Seller has become obligated related to the affected goods. Seller may terminate any order or any part thereof upon written notice to Buyer. Buyer waives all claims to damages upon such termination, including, without limitation, any cost of cover to obtain substitute goods.

7. PERMISSIBLE VARIATIONS. Seller reserves the right to ship and Buyer agrees to accept, overages or shortages of up to 10% of the quantity ordered by Buyer and any such overage or shortage will be charged or credited to Buyer.

8. FINANCIAL RESPONSIBILITY. If Seller has any reasonable doubt at any time as to Buyer's financial condition and ability to perform, Seller, at its option, may (a) decline to make further shipments other than on a cash in advance basis or upon Buyer providing other security satisfactory to Seller, or (b) terminate this agreement.

9. RECEIVING AND INSPECTION. Any claim by Buyer based upon or relating to any claimed defect in the products ascertainable upon visual inspection thereof, including without limitation any claim relating to size, type, quantity or shipping damage and the like, must be presented to SELLER or its representative within fifteen (15) days following the date of receipt of the product by Buyer. Buyer's receipt of any product delivered hereunder shall be an unqualified acceptance, and a waiver by Buyer of any and all such claims with respect to such product unless Buyer gives SELLER notice of claim within fifteen (15) days after such receipt. Unless otherwise agreed in advance in writing by SELLER, variations in the products as to composition, dimensions, quantity and the like shall be permissible and not cause for Buyer's rejection or revocation if within prevailing industry (United States of America) standards. Buyer assumes all risk and liability for results.

10. TOOLING. Buyer will indemnify, defend and hold SELLER harmless from and against any liability, damage, loss or expense arising from the



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use or handling of any tooling supplied or designed by Buyer from which products are to be cast or manufactured by SELLER.

11. PATENT INDEMNITY. SELLER agrees to protect, indemnify and hold harmless the Buyer; its successors, assigns, customers and users of its products against any liability, loss, damage or expense whatsoever resulting from any infringement of any United States Letters Patent by any thing, number, material, design, composition, or processing of SELLER's origin or practice supplied by SELLER. With respect to any thing, number, material or design, composition, or processing, specified by Buyer and not of SELLER's origin or practice, BUYER agrees to save SELLER harmless from any liability, loss damage or expense whatsoever resulting from any infringement of any United States Letters Patent arising out of SELLER's making, using or selling the same for or to BUYER in fulfillment of its orders or contracts. SELLER and BUYER severally agree to notify the other in writing promptly of any charge of infringement made and of any suit brought in respect to such device or composition and to assume or tender to the other the full control of the defense or settlement of such suit in accordance herewith.

12. WARRANTY. Seller warrants only to Buyer that products furnished of Seller's own manufacture will conform to prevailing (United State of America) industry standards as to quality, inspections, composition, quantity and type, and will be free from defects in workmanship and materials under normal conditions of use and service for a period of one year from the date of receipt by Buyer; or 18 months from the date of manufacture of the products. This warranty will not apply to damage resulting from normal wear, improper installation, misuse or neglect. Seller does not warrant any aspect of product representation, installation, modifications or manufacturing carried out by parties other than Seller nor does Seller's warranty extend to any products used in combination with Seller's goods, and Buyer indemnify, defend and hold harmless Seller for any loss, cost or expense to which Seller may be exposed as a result of any such activities by Buyer; Buyer's customers or other suppliers. Weight figures shown in Seller's catalogue and price sheets, and documents of sale are approximate only. Product is sold on a per unit basis not on a weight basis. Seller's sole obligation for failure to comply with this warranty will be, at its election, to repair or replace the defective product where Buyer notifies Seller and such product is made available to Seller for inspection F.O.B. Seller's facility or point of manufacture [within the year warranty period. Except to the extent that (1) descriptions of size, quality and type, which may appear on Seller invoices and other documents, and (2) statements of conformity of products with specification of certain industry, government, or professional organizations standards, which may appear as product information disclosures in Seller's literature and documents, may from time to time be construed to be express warranties., THIS WARRANTY IS IN LIEU OF AND EXCLUDES ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

13. LIMITATION OF LIABILITY. Under no circumstances will Seller's liability in the aggregate to Buyer under any legal theory, including without limitation, breach of contract or warranty, or commission of any tort, including negligence and strict liability, or claims for indemnification, exceed the invoice price for the affected product. Buyer must commence any action at law or in equity against Seller within one year after the product is delivered to Buyer. Buyer will not have any recourse against Seller for any loss, which reasonably could be prevented by cover or otherwise. Exceptions to Seller's warranty and limitation of liability provisions or waivers of the same granted by Seller will not constitute a precedent, default or waiver of Seller's rights to enforce such provisions in whole or in part in the future. SELLER WILL NOT BE LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, CONSEQUENTIAL OR OTHER DAMAGES OF ANY KIND WHATSOEVER, WHETHER ANY CLAIM OR POTENTIAL CLAIM IS BASED UPON THEORIES OF CONTRACT, NEGLIGENCE, OR TORT AND INCLUDING WITHOUT LIMITATION, SELLER WILL HAVE NO LIABILITY FOR SHIPPING

CHARGES, LABOR, INSTALLATION, COSTS OR ANY OTHER LOSSES OR EXPENSES RELATED TO OR ASSOCIATED WITH THE INSPECTION, REPAIR OR REPLACEMENT OF THE WARRANTED PRODUCTS.

14. DEFAULT. Buyer will be in default if (a) Buyer fails to pay Seller any amount when due under this agreement, (b) Buyer otherwise fails for a period of five days after receiving written notice from Seller to fulfill or perform any provisions of this agreement, (c) Buyer becomes insolvent or bankrupt, or a petition is filed voluntarily or involuntarily and not dismissed within 30 days of filing, or (d) Buyer makes a general assignment for the benefit of its creditors, or a receiver is appointed, or a substantial part of Buyer's assets are attached or seized under legal process and not released within 30 days thereafter.

Upon buyer's default, Seller may, at its option, without prejudice to any of its other rights and remedies, and without demand for payments past due, (a) make shipments subject to receipt of cash in advance, (b) terminate this agreement and declare immediately due and payable the obligations of Buyer for goods previously shipped, notwithstanding any other provision in these terms and conditions, (c) demand reclamation, or (d) suspend any further deliveries until the default is corrected, without releasing Buyer from its obligations under this agreement. In any event, Buyer will remain liable for all loss and damage sustained by Seller because of Buyer's default.

15. OTHER. (a) SELLER accepts no responsibility to BUYER or to any person claiming by or through BUYER, for compliance with any statute, governmental rule or regulation made applicable to this contract by reason of BUYER's intended use of the products unless SELLER has received from BUYER prior timely written notification of such statute, rule or regulation and has accepted the same by a separate writing signed by an officer of SELLER.

(b) SELLER's forbearance or failure to enforce any of these conditions as set forth herein or to exercise any right accruing from any default of BUYER shall not affect, impair or waive SELLER's right if such default continues or if any subsequent default of BUYER occurs.

(c) The provisions herein constitute the entire agreement between BUYER and SELLER and no terms or conditions other than those stated herein and no agreement or understanding oral or written in any way purporting to modify these conditions shall be binding on SELLER unless hereafter made in writing and signed by SELLER's authorized representative. All orders are subject to acceptance at SELLER's offices and BUYER and SELLER's contract shall be construed in accordance with the laws of Tennessee. Any disputes arising under these terms and conditions, and the orders to which they pertain, shall be brought exclusively in Shelby County, Tennessee.

(d) The provisions of this agreement shall be considered severable. In the event that any of the provisions, or portions or applications thereof, of this agreement are held to be unenforceable or invalid by any court of competent jurisdiction, all remaining portions shall remain in full force and effect in accordance with the spirit of this agreement.

(e) The rights and obligations of BUYER and SELLER hereunder shall not be assigned to any third party without the prior written consent of the other party.

(f) ACCEPTANCE OF THE PRODUCTS SOLD HEREUNDER SHALL CONSTITUTE ASSENT TO THESE CONDITIONS AND SELLER HEREBY OBJECTS TO AND REJECTS ANY AND ALL ADDITIONAL OR DIFFERENT TERMS PROPOSED BY BUYER, WHETHER CONTAINED IN BUYER'S PURCHASING OR SHIPPING RELEASE FORMS OR ELSEWHERE. ALL PROPOSALS, NEGOTIATIONS, AND REPRESENTATIONS, IF ANY, MADE PRIOR AND WITH REFERENCE HERETO ARE MERGED HEREIN, AND ANY PROPOSED ADDITIONS, MODIFICATIONS, DELETIONS OR CHANGES NOT IN SEPARATE WRITINGS SIGNED BY AN OFFICER OF SELLER ARE REJECTED WITHOUT FURTHER ACTION BY SELLER.

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Scope

The Terms and Conditions and Order Policy ("Terms") contained herein shall apply to all quotations and offers made by and purchase orders accepted by Mueller Refrigeration Co., Inc. These terms apply to all sales made by Mueller Refrigeration Co., Inc. except the extent the Terms conflict with an agreement signed by Mueller and Buyer. These Terms apply in lieu of any course of dealing between the parties or usage of trade in the industry. These Terms may in some instances conflict with some of the terms and conditions affixed to the purchase order of other procurement document issued by the Buyer. In such case, the Terms contained herein shall govern, and acceptance of Buyer's order is conditioned upon Buyer's acceptance of the terms and conditions herein, irrespective of whether the Buyer accepts these conditions by a written acknowledgement, by implication, or acceptance and/or payment of products ordered hereunder. Mueller Refrigeration Co., Inc.'s failure to object to provisions contained in any communication from Buyer shall not be deemed a waiver of the provisions herein. Any changes in the Terms contained herein must specifically be agreed to in writing signed by a representative of Mueller Refrigeration Co., Inc. before becoming binding on either party.

Scheduling and Cancellation

Standard Product: Product is considered standard product if it is listed in the Mueller Refrigeration Co., Inc. general product catalog, or in published product literature sheets.

Scheduling Standard Product Orders: Mueller will build product according to the customers' written scheduled releases or forecasts for each order. Products scheduled to ship within a thirty-day (30) window from original ship date on PO> are non-cancelable and may only be rescheduled one time. Products scheduled to ship within a 31-60 day window may be rescheduled, but the product must be taken within three months of the original scheduled date and may only be rescheduled one time.

Cancellation of Standard Product: If Seller determines the Product being cancelled to be Standard Product, the amount of the cancellation charge will vary according to the (a) quantity being cancelled, (b) time frame between Buyer's request to Seller to cancel and the scheduled ship date for the order; and (c) dollar amount of order being cancelled. The calculation of the exact cancellation charge will be governed by Sellers published policies as amended from time to time at Seller's discretion. In no case will the cancellation charge be less than twenty percent (20%) of the original agreed upon purchase price.

Custom Product: Product is considered custom if it is not listed in the Mueller Refrigeration Co., Inc.'s general product catalog or in other published product literature.

Scheduling Custom Product Orders: Mueller will build product according to the customers' written scheduled releases or forecasts for each order. Products scheduled to ship within a ninety (90) day window from date of request are non-cancelable. Products scheduled to ship within a 60-90 day window from date of request may be rescheduled. The product must be taken within three (3) months of the rescheduled date and may only be rescheduled one time. In the event Mueller has established a stocking program in an effort to support customer production schedules, any uniquely purchased materials, finished goods inventory, or work in process required to build modified or custom product is the responsibility of, and must be paid for by the customer in the event of a cancellation or product modification that may result in obsolete inventory.

Cancellation of Custom Products: If the Product cancelled is Custom Product, Buyer agrees to pay Seller for all of Seller out of pocket costs associated with the cancellation or modification to parts or orders including, but not limited to: (i) raw materials, (ii) work in process, (iii) finished goods inventory, (iv) inventory carrying costs, (v) scrapping and disposal fees, (vi) administrative fees, (vii) reasonable and equitable profit for Seller (collectively, "Cancellation Expenses"). In no case will the cancellation charge be less than the Seller's actual costs (including overhead and other indirect costs). The amount of cancellation charge to be paid by Buyer shall be determined at the sole discretion of Seller and may equal 100% of the amount of the order cancelled or modified. Buyer shall be entitled to receive all raw materials and work in process, and Seller agrees to ship such goods to Buyer at Buyer's expense upon receipt of payment in full or Cancellation Expenses incurred by Seller.

Order & Return Policy

Standard Order Information

Minimum Order Requirements: A minimum charge of \$50 net applies to all orders from Mueller Refrigeration Co., Inc. Orders less than this amount may be subject to special charges or requirements.

Package Requirements: Standard cataloged parts must be ordered in packaged quantities. If the order does not comply, Mueller reserves the right to increase or decrease to the nearest standard package quantity.

Order Visibility: The customer recognizes that Mueller Refrigeration Co., Inc. requires visibility to complete an order in an accurate and timely manner. Depending on the part ordered, quantity required and stock on hand, the customer will be provided with lead-time information at the time of order.

Emergency Orders: Mueller reserves the right to charge a special service fee for orders that are placed with short lead-time or considered emergency requirements. The charge may include a standard order fee for the entire order; a per piece fee for each part ordered, or fees to cover extraordinary costs including overtime or scheduling charges.

Special Order Information

Minimum Order Requirements: A minimum charge of \$100 net and 25 pieces minimum applies to all orders. Orders less than this amount may be subject to special charges or requirements.

Package Requirements: Depending on the part, specialized packaging may require adjustments to the order quantities to meet appropriate packaged quantities. This is subject to inquiry at the time of the order.

Order Visibility: Due to the nature of special orders, the customer recognizes Mueller may not have stock available at the time of order. Due to this, Mueller will require a minimum of 2 weeks to process any new part orders. Depending on the part ordered, quantity required and stock on hand, the customer may be provided with better lead-time information at the time of order.

Emergency Orders: Mueller reserves the right to charge a special service fee for orders that are placed with short lead-time or considered emergency requirements. The charge may include a standard order fee for the entire order; a per piece fee for each part ordered, or fees to cover extraordinary costs including overtime or scheduling charges.

Return Policy

Return Requests: All returns to Mueller must be issued a Return Material Authorization (RMA) number prior to the return of the product. The number will be provided by a Customer Service Representative or Mueller. Mueller reserves the right to refuse any product that has not been accompanied by an RMA number. All buyer/credit requests are to be made within 12 months of the Buyer's receipt of goods. Buyer shall provide specific original purchase information or documentation for all RMA/Credit requests. If no such information can be provided, Seller reserves the right to establish all RMA/Credit pricing.

Stocking Fees: Buyer shall assume a minimum 20% restock fee for all returns of current product where no fault was attributable to the Seller. Product must be returned in original packaging, unused, and be packaged to eliminate any possibility of damage in shipment. Mueller may opt to charge a higher fee, depending on the part being returned, the quantity, or the age of the product. At any time, Mueller may decide that it will not allow the return of product based on its discretion.

Package and Shipping Requirements: The seller reserves the right to refuse returned product that upon inspection by the Seller is determined to be in "non-sellable" condition. Unless authorized by the Seller on a Mueller RMA, the Buyer shall assume all return freight charges. In Seller authorized exceptions, only Mueller approved carrier may be used. Any freight damaged or shipment shortage issues must be presented to the freight carrier or Seller within 15 days of the Buyer's receipt of goods.

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Copper Fitting General Information

Connection Descriptions

Symbol	Name	Description
C	Copper	Female Solder. Receives copper tube diameter
FTG	Fitting	Male Solder. Fitting end is made to copper tube diameter
F	Female	ANSI Standard internal taper pipe thread (NPTI)
M	Male	ANSI Standard external taper pipe thread (NPTE)

Dimensions of Wrot and Cast Fitting Ends

Solder Cup Dimensions

SIZE	MAX	A MIN	B MIN
1/8	0.131	0.127	0.25
3/16	0.194	0.19	0.31
1/4	0.256	0.252	0.31
5/16	0.319	0.315	0.31
3/8	0.381	0.377	0.31
1/2	0.506	0.502	0.38
5/8	0.631	0.627	0.50
3/4	0.756	0.752	0.62
7/8	0.881	0.877	0.75
1 1/8	1.132	1.128	0.91
1 3/8	1.382	1.378	0.97
1 5/8	1.633	1.628	1.09
2 1/8	2.133	2.128	1.34
2 5/8	2.633	2.628	1.47
3 1/8	3.133	3.128	1.66
3 5/8	3.633	3.628	1.91
4 1/8	4.133	4.128	2.16
5 1/8	5.133	5.128	2.66
6 1/8	6.133	6.128	3.09
8 1/8	8.133	8.128	3.97

Fitting End Dimensions

SIZE	MAX	A MIN	B MIN
1/8	0.126	0.123	0.31
3/16	0.189	0.186	0.38
1/4	0.251	0.248	0.38
5/16	0.314	0.311	0.38
3/8	0.376	0.373	0.38
1/2	0.501	0.497	0.44
5/8	0.626	0.622	0.56
3/4	0.751	0.747	0.69
7/8	0.876	0.872	0.81
1 1/8	1.127	1.122	0.97
1 3/8	1.377	1.372	1.03
1 5/8	1.627	1.621	1.16
2 1/8	2.127	2.121	1.41
2 5/8	2.627	2.621	1.53
3 1/8	3.127	3.121	1.72
3 5/8	3.627	3.621	1.67
4 1/8	4.127	4.121	2.22
5 1/8	5.127	5.121	2.72
6 1/8	6.127	6.121	3.22
8 1/8	8.127	8.121	4.09

Sizing Conversion Table

Nominal Fraction	1/8"	1/4"	3/8"	1/2"	5/8"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	7"	8"
Nominal Decimal	0.125	0.25	0.375	0.50	0.625	0.75	1.0	1.25	1.5	2.0	2.5	3.0	4.0	5.0	6.0	7.0	8.0
OD Fraction*	1/4"	3/8"	1/2"	5/8"	3/4"	7/8"	1 1/8"	1 3/8"	1 5/8"	2 1/8"	2 5/8"	3 1/8"	4 1/8"	5 1/8"	6 1/8"	7 1/8"	8 1/8"
OD Decimal*	0.25	0.375	0.50	0.625	0.75	0.875	1.125	1.375	1.625	2.125	2.625	3.125	4.125	5.125	6.125	7.125	8.125

* OD = Outside Diameter
Nominal = Inside Diameter (ID)

Degree	Bend
90°	1/4
60°	1/6
45°	1/8
22-1/2°	1/16
11-1/4°	1/32

Mueller Ball Valve Cross Reference

CYCLEMASTER® BALL VALVES, STRAIGHT

Current Part Number	BALLMASTER	CYCLEMASTER	Size
API7859	A 17501	A 17859	1/4
API7860	A 17260	A 17860	3/8
API7861	A 17261	A 17861	1/2
API7862	A 17262	A 17862	5/8
API7863	A 17263	A 17863	7/8
A 17864	A 17264		7/8
A 17865	A 17265		1 1/8
A 17866	A 17266		1 3/8
A 17867	A 17267		1 5/8
A 17868	A 17268		2 1/8
A 17871*	A 17269		2 5/8
A 17870			3 1/8
A 17869	A 17786		2 5/8
A 17872*	A 17270		3 1/8

CYCLEMASTER® BALL VALVES, STRAIGHT WITH ACCESS

Current Part Number	BALLMASTER	CYCLEMASTER	Size
AQI7860	A 17460	A 17563, ACI7860	3/8
AQI7861	A 17461	A 17564, ACI7861	1/2
AQI7862	A 17464	A 17565, ACI7862	5/8
ACI7863	A 17463		3/4
ACI7864	A 17464	A 17567, ACI7864	7/8
ACI7865	A 17465	A 17568	1 1/8
ACI7866	A 17466	A 17569	1 3/8
ACI7867	A 17467	A 17570	1 5/8
ACI7868	A 17468	A 17541	2 1/8
ACI7871*	A 17469	A 17572	2 5/8
ACI7870			3 1/8
ACI7869	A 17787		2 5/8
ACI7872*	A 17470	A 17573	3 1/8

CYCLEMASTER® BALL VALVES, 3-WAY WITH ACCESS

Current Part Number	BALLMASTER	CYCLEMASTER	Size
AUI7860		A 17539	3/8
AUI7861		A 17540	1/2
AUI7862		A 17541	5/8
AUI7863	A 17464	A 17567, ACI7864	3/4
AUI7864		A 17543	7/8
AUI7865		A 17544	1 1/8
AUI7866		A 17545	1 3/8
AUI7867		A 17546	1 5/8
AUI7868		A 17547	2 1/8
AUI7871*		A 17548	2 5/8
AUI7872*		A 17549	3 1/8

BALL VALVE SEAL CAP

Size	Body Number	One-Piece	Two-Piece	Retrofit Assembly
1/4	F 35222, F 36700, N 02351	A 17965	A 17842	A 18351
3/8	F 35222, F 36700, N 02351	A 17965	A 17842	A 18351
1/2	F 35222, F 36700, N 02351	A 17965	A 17842	A 18351
5/8	F 35222, F 36700, N 02351	A 17965	A 17842	A 18351
3/4	F 35223, F 36701, N 02352	A 17866	A 17843	A 18352
7/8	F 35223, F 36701, N 02352	A 17866	A 17843	A 18352
1 1/8	F 35224, F 36702, N 02353	A 17967	A 17844	A 18353
1 3/8	F 35162, N 02354	A 17968	A 17845	A 18354
1 5/8	F 35949, F 36703	A 17967	A 17844	A 18353
2 1/8	F 35160, F 35950, F 36704, N 02355	A 17968	A 17845	A 18354
2 1/8	F 35161, N 02356	A 18399	A 17846	A 18355
2 1/8	F 35951, F 36595, F 36705	A 17968	A 17845	A 18354
2 5/8	F 35755, F 36706	A 18399	A 17846	A 18355
3 1/8	F 35952, F 36707	A 18399	A 17846	A 18355
2 5/8*	F 35161, N 02356	A 18399	A 17846	A 18355
2 5/8*	F 35951, F 36705	A 17968	A 17845	A 18354
3 1/8*	F 35161, N 02356	A 18399	A 17846	A 18355
3 1/8*	F 35951, F 36595, F 36705	A 17968	A 17845	A 18354

* Reduced port

CYCLEMASTER® BALL VALVES, ACTUATED STRAIGHT

Current Part Number	BALLMASTER	CYCLEMASTER	Size
AWI7861		A 17793	1/2
AWI7862		A 17794	5/8
AWI7863		A 17795	3/4
AWI7864		A 17796	7/8
AWI7865		A 17797	1 1/8
AWI7866		A 17798	1 3/8
AWI7867		A 17799	1 5/8
AWI7868		A 17800	2 1/8
AWI7871*		A 17801	2 5/8
AWI7872*		A 17802	3 1/8

CYCLEMASTER® BALL VALVES, ACTUATED 3-WAY

Current Part Number	BALLMASTER	CYCLEMASTER	Size
AYI7861		A 17805	1/2
AYI7862		A 17806	5/8
AYI7863		A 17807	3/4
AYI7864		A 17808	7/8
AYI7865		A 17809	1 1/8
AYI7866		A 17810	1 3/8
AYI7867		A 17811	1 5/8
AYI7868		A 17812	2 1/8
AYI7871*		A 17813	2 5/8
AYI7872*		A 17814	3 1/8

CYCLEMASTER® BALL VALVES, ACTUATED KITS

Current Sealed Hub Design	Obsolete Hub Design
A 18390	B 34437
A 18392	B 34438
A 18394	B 34439
A 18396	B 34440
A 18395	B 34441
A 18395	B 34442

CYCLEMASTER® BALL VALVES, ACTUATED KITS

Current Sealed Hub Design	Obsolete Hub Design
A 18390	B 34437
A 18392	B 34438
A 18394	B 34439
A 18396	B 34440
A 18395	B 34441
A 18395	B 34442

ACTUATED BALL VALVE COMPONENT

Size	Body Number	Motor Series	Hub Kit	Actuator Kit**
1/2	F 35222, F 36700, N 2351	1	A 18389	A 18390
5/8	F 35222, F 36700, N 2351	1	A 18389	A 18390
3/4	F 35223, F 36701, N 2352	1	A 18391	A 18392
7/8	F 35223, F 36701, N 2352	1	A 18391	A 18392
1 1/8	F 35224, F 36702, N 2353	2	A 18393	A 18394
1 3/8	F 35162, N 2354	2	A 18368	A 18396
1 5/8	F 35949, F 36703	2	A 18393	A 18394
1 5/8	F 35160, F 35950, F 36704, N 2355	2	A 18368	A 18396
2 1/8	F 35161, N 2356	3	A 18402	
2 1/8	F 35951, F 36595, F 36705	3	A 18368	A 18395
2 5/8	F 35755, F 36706	4	A 18400	A 18401
3 1/8	F 35952, F 36707	4	A 18400	A 18401
2 5/8*	F 35161, N 2356	3	A 18402	
2 5/8*	F 35951, F 36705	3	A 18368	A 18395
3 1/8*	F 35161, N 2356	3	A 18402	
3 1/8*	F 35951, F 36595, F 36705	3	A 18368	A 18395

* Reduced Port

**Actuator Kit includes motor and hub assembly

O-Ring Seal Kits***

Size	Part
1/2 - 7/8	A 18403
1 1/8 - 3 1/8	A 18404

***Not intended to be used on an old style hub assembly to seal off stem leaks.

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CYCLEMASTER® Ball Valve

Size (in.)	Mueller	Alco	Henry 1-Pc Cap	Henry 2-Pc Cap	JB Industries	Sporlan	Superior	Virginia KMP
1/4	API7859	64383	NA	NA	NA	NA	586WA-4ST	NA
3/8	API7860	62104	904203	900203B	V34200	EBV-1030	586WA-6ST	LW03S
1/2	API7861	62105	904204	900204B	V34201	EBV-1040	586WA-8ST	LW04S
5/8	API7862	62106	904205	900205B	V34202	EBV-1050	586WA-10ST	NA
3/4	A 17863	64385	NA	NA	V34203	NA	587WA-12ST	LW05S
7/8	A 17864	62107	904307	900307B	V34204	EBV-1070	587WA-14ST	LW07S
1 1/8	A 17865	62108	904409	900409B	V34206	EBV-1090	591WA-11ST	LW09S
1 3/8	A 17866	62109	904511	900511B	V34207	EBV-1160	592WA-13ST	LW11S
1 5/8	A 17867	62110	904613	900613B	V34208	EBV-1130	593WA-15ST	LS13S
2 1/8	A 17868	62111	904717	900717B	V34209	EBV-1170	594WA-21ST	LW17S
2 5/8	A 17869	NA	904721	900721B	NA	NA	595WA-25ST	NA
3 1/8	A 17870	NA	904725	900725B	NA	NA	596WA-31ST	NA
2 5/8*	A 17871	62112	900821	NA	V34210	EBV-1210	594WA-25ST	LW17S
3 1/8*	A 17872	62113	900825	NA	V34211	EBV-1250	594WA-31ST	LW21S
3 5/8*	B 34909	NA	NA	NA	NA	NA	596WA-35ST	NA
4 1/8*	B 34910	NA	NA	NA	NA	NA	596WA-41ST	NA

* Reduced port

CYCLEMASTER® Ball Valve with access

Size (in.)	Mueller	Alco	Henry 1-Pc Cap	2-Pc Cap	JB Industries	Sporlan	Superior	Virginia KMP
1/4	AQ17859	64384	NA	NA	NA	NA	NA	NA
3/8	AQ17860	62114	934203	903203B	V34400	EBVT-1030	586WAS-6ST	LW03SP
1/2	AQ17861	62115	934204	903204B	V34401	EBVT-1040	586WAS-8ST	LW04SP
5/8	AQ17862	62116	934305	903205B	V34402	EBVT-1050	586WAS-10ST	NA
3/4	AC17863	64386	NA	NA	NA	NA	NA	LW05SP
7/8	AC17864	62117	934307	903307B	V34404	EBVT-1070	587WAS-14ST	LW07SP
1 1/8	AC17865	62118	934409	903409B	V34406	EBVT-1090	591WAS-11ST	LW09SP
1 3/8	AC17866	62119	934511	903511B	V34407	EBVT-1160	592WAS-13ST	LW11SP
1 5/8	AC17867	62120	934613	903613B	V34408	EBVT-1130	593WAS-15ST	LS13SP
2 1/8	AC17868	62121	934717	903717B	V34409	EBVT-1170	594WAS-21ST	LW17SP
2 5/8	AC17869	NA	NA	NA	NA	NA	595WAS-25ST	NA
3 1/8	AC17870	NA	NA	NA	NA	NA	596WAS-31ST	NA
2 5/8*	AC17871	62122	NA	NA	NA	EBVT-1210	NA	LW17SP
3 1/8*	AC17872	62123	NA	NA	NA	EBVT-1250	NA	LW21SP

* Reduced port

CYCLEMASTER® Ball Valve, Drilled & Tapped

Size (in)	(mm)	Mueller 2-piece cap (in)	Mueller 1-piece cap (in)	Danfoss (in)	Danfoss (mm)
1/4	6	API7859	APX17859	009G7020	009G7030
3/8	10	API7860	APX17860	009G7021	009G7031
1/2	12	API7861	APX17861	009G7022	009G7032
5/8	16	API7862	APX17862	009G7023	009G7033
3/4	18	API7863	APX17863	009G7024	009G7035
7/8	22	API7864	APX17864	009G7025	009G7025
1 1/8	28	API7865	APX17865	009G7026	009G7033
1 3/8	35	API7866	APX17866	009G7027	009G7027
1 5/8	42	API7867	APX17867	009G7028	009G7034
2 1/8	54	API7868	APX17868	009G7029	009G7029
2 5/8		API7869	APX17869	NA	NA
3 1/8		API7870	APX17870	NA	NA
2 5/8*		API7871	APX17871	009G7036	NA
3 1/8*		API7872	APX17872	009G7037	NA

* Reduced port



Valve Cross Reference

CYCLEMASTER® Ball Valve, Drilled & Tapped

Size (in)	(mm)	Mueller 2-piece cap (in)	Mueller 1-piece cap (in)	Danfoss (in)	Danfoss (mm)
1/4	6	AQ17859	AQX17859	009G7050	009G7060
3/8	10	AQ17860	AQX17860	009G7051	009G7061
1/2	12	AQ17861	AQX17861	009G7052	009G7062
5/8	16	AQ17862	AQX17862	009G7053	009G7063
3/4	18	AQ17863	AQX17863	009G7054	009G7065
7/8	22	AQ17864	AQX17864	009G7055	009G7055
1 1/8	28	AQ17865	AQX17865	009G7056	009G7063
1 3/8	35	AQ17866	AQX17866	009G7057	009G7057
1 5/8	42	AQ17867	AQX17867	009G7058	009G7064
2 1/8	54	AQ17868	AQX17868	009G7059	009G7059
2 5/8		AQ17869	AQX17869	NA	NA
3 1/8		AQ17870	AQX17870	NA	NA
2 5/8*		AQ17871	AQX17871	009G7066	NA
3 1/8*		AQ17872	AQX17872	009G7067	NA

* Reduced Port

Check Valves

Size Flare x Flare	Mueller	Mueller Screw Bonnet	Henry	Danfoss	Superior
1/4	A 15620	NA	119-1/4	020-1040	802B-4
3/8	A 15621	NA	119-3/8	020-1041	802B-6
1/2	A 15622	NA	119-1/2	020-1042	802B-8
5/8	A 15623	NA	NA	020-1043	803B-10
Solder x Solder					
1/4	A 15628	A 17953	NA		802B-4S
3/8	A 15629	A 17954	116003		802B-6S
1/2	A 15630	A 17955	116004		802B-8S
5/8	A 15631	A 17956	116005		803B-10S
5/8	NA	B 34873	NA		804A-10S
3/4	NA	A 17957	NA		804A-12S
7/8	NA	A 17958	NA		804A-14S
1/4*	A 15632	AT17953	120-1/4	020-1010	802B-4ST
3/8*	A 15633	AT17954	120-3/8	020-1011	802B-6ST
1/2*	A 15634	AT17955	120-1/2	020-1012	802B-8ST
5/8*	A 15635	AT17956	120-5/8	020-1018	803B-10ST
7/8*	NA	AT17957	120-7/8		803B-14ST

* Extended Ends

4-Bolt Check Valve

Size	Mueller	Henry	Superior
7/8	B 34235	116007	805C-14S
1 1/8	B 34236	NA	806C-11S
1 3/8	B 34237	NA	807C-13S
1 5/8	B 34238	NA	808C-15S
2 1/8	B 34239	NA	809C-21S
2 5/8	B 34240	NA	884C-25S
3 1/8	B 34241	NA	885C-31S

Magnetic Check Valves

Size	Mueller	A-I Components	Emerson	Superior
1/4	A 17934	MS-4	ACK-4	900MA-4S
3/8	A 17935	MS-6	ACK-6	900MA-6S
1/2	A 17936	MS-8	ACK-8	900MA-8S
5/8	A 17937	MS-10	ACK-10	900MA-10S
3/4	A 17938	MS-12	ACK-12	900MA-12S
7/8	A 17939	MS-14	ACK-14	900MA-14S
1 1/8	A 17940	MS-18	ACK-18	900MA-11S
1 3/8	A 17941	MS-22	ACK-22	900MA-13S
1 5/8	A 17942	MS-26	ACK-26	900MA-15S
2 1/8	A 17943	MS-34	ACK-34	900MA-21S
2 5/8	A 17944	MS-42	ACK-42	900MA-25S
3 1/8	A 17981	NA	NA	NA

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Packed Line Valves

Size	Mueller	Henry	Superior
NPTFE Inlet to Flare			
1/4 x 1/4	A 11031	7761-B	600A-4B
1/4 x 3/8	A 11030	7763-B	600A-6B
3/8 x 1/4	A 13613	7764-B	600A-4C
3/8 x 3/8	A 13503	7766-B	600A-6C
3/8 x 1/2	A 11042	7767-B	605-8C
1/4 x 1/4 FPT	A 13502	7771-B	605-KB
Solder to Flare with seal cap			
1/4 x 1/4	A 17502	9270	617A-4S4
3/8 x 3/8	A 17503	9272	617A-6S6
Internal Swivel Flare to Flare			
1/4 x 1/4	A 17429	9240	600B-4U4
3/8 x 3/8	A 17474	9241	600B-6U6
Straight Thru - Flare to Flare			
1/4	A 14833	5151	214-4
3/8	A 14835	5153	214-6
1/2	A 14836	5154	215-8
5/8	A 14837	5155	216-10
Straight Thru - Solder to Solder			
1/4	A 14838	6291N/5161	214-4S
3/8	A 14840	6263N/5163	214-6S
1/2	A 14841	6264N/5164	215-8S
5/8	A 14842	6265N/5165	216-10ST
Straight Thru - Solder to Solder Ext Ends			
1/4	A 14848	NA	214-4ST
3/8	A 14850	NA	214-6ST
1/2	A 14851	NA	215-8ST
5/8	A 14852	NA	216-10ST
Angle - NPTFE to Flare			
1/4 x 1/4	A 15525	NA	114-4B
1/4 x 3/8	A 15526	NA	NA
3/8 x 1/4	A 15527	NA	114-6B
3/8 x 3/8	A 15528	NA	NA
3/8 x 1/2	A 15529	NA	NA
1/2 x 1/2	A 15530	NA	NA
1/2 x 5/8	A 15531	NA	NA
Angle - Solder to Solder			
1/4	A 15539	6291N	NA
3/8	A 15540	6293N	114-6S
1/2	A 15541	6294N	115-8S
5/8	A 15542	6295N	NA

Transducer Valves

Size	Mueller	Henry	Superior
1/4 x 1/8 x 1/4	B 34254	9290	600AX7-JB

Relief Valves

Size	Mueller	Henry	
Superior			
Straight Thru- NPTFE Inlet to Flare			
1/4 x 3/8	A 15501	5230	3012
3/8 x 3/8	A 15502	5231	3014
3/8 x 1/2	A 15503	5231-A	3015
1/2 x 5/8	A 15504	5232	3020
Straight Thru - NPTFE x NPTFI			
1/2 x 1/2	A 18356	NA	3030
1/2 x 3/4	A 18357	5240	3031
3/4 x 3/4	A 18358	5242	3045
1 x 1	A 17840	5244	3060
1 1/4 x 1 1/4	A 17834	5246	3075
Atmospheric - NPTFE Inlet			
1/8	A 15508	NA	3000
1/4	A 15509	5221	3001
3/8	A 17430	5223	3002
Angle-NPTFE to Flare			
1/4 x 3/8	B 33746	NA	3212
3/8 x 3/8	A 15512	526E	3214
3/8 x 1/2	A 15513	NA	3215
1/2 x 5/8	A 15514	527E	3220

Rupture Discs & Accessories

1/2 x 1/2	A 17971	5526	NA
Pressure Gauge	P 36214	G15	NA



Valve Cross Reference

Transducer Valves

Size	Mueller	Henry	Superior
1/4 x 1/8 x 1/4	B 34254	9290	600AX7-JB

Diaphragm Valves

Size	Mueller	Superior
Flare to Flare		
1 1/4	A 14833	214-4
3/8	A 14835	214-6
1/2	A 14836	215-8
5/8	A 14837	216-10

Solder to Solder

1/4	A 14838	214-4S
3/8	A 14840	214-6S
1/2	A 14841	215-8S
5/8	A 14842	216-10S

Extended End - Solder to Solder

1/4	A 14848	214-4ST
3/8	A 14850	214-6ST
1/2	A 14851	215-8ST
5/8	A 14852	216-10ST

Angle - NPTFE to Flare

1/4 x 1/4	A 15525	114-4B
3/8 x 1/4	A 15527	114-6B

Angle - Solder to Solder

1/2	A 15541	115-8S
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Angle - NPTFE to Flare

1/4	A 15525	114-4B
3/8	A 15527	114-6B

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Filter Drier Cross Reference

Liquid Line Filter Driers

Size	Style	Mueller	Alco	Henry	Parker	Sporlan	Virginia KMP
Flare Connections							
1/4	FL-032	A 16600	60009	H032	32	C-32	WAH032
3/8	FL-033	A 16601	60013	NA	NA	C-33	WAH033
1/4	FL-052	A 16606	47601	H052	52	C-52	WAH052
3/8	FL-053	A 16607	47603	H053	53	C-53	WAH053
1/4	FL-082	A 16608	47605	H082	82	C-82	WAH082
3/8	FL-083	A 16609	47607	H083	83	C-83	WAH083
1/2	FL-084	A 16610	47609	H084	84	C-84	WAH084
1/4	FL-162	A 16612	47611	NA	162	C-162	WAH162
3/8	FL-163	A 16613	47613	H163	163	C-163	WAH163
1/2	FL-164	A 16614	47615	H164	164	C-164	WAH164
5/8	FL-165	A 16615	47617	NA	165	C-165	WAH165
3/8	FL-303	A 16618	48210	H303	303	C-303	WAH303
1/2	FL-304	A 16619	48212	H304	304	C-304	WAH304
5/8	FL-305	A 16620	48214	H305	305	C-305	WAH305
3/8	FL-413	A 16623	48219	NA	413	C-413	WAH413
1/2	FL-414	A 16624	48220	H414	414	C-414	WAH414
5/8	FL-415	A 16625	48222	H415	415	C-415	WAH415
Solder Connections							
1/4	SD-032	A 16640	60012	H032-S	032S	C-032-S	WAH032S
3/8	SD-033	A 16641	60014	NA	NA	C-033-S	WAH033S
1/4	SD-052	A 16646	47602	H052-S	052S	C-052-S	WAH052S
3/8	SD-053	A 16647	57604	H053-S	053S	C-053-S	WAH053S
1/4	SD-082	A 16648	47606	H082-S	082S	C-082-S	WAH082S
3/8	SD-083	A 16649	47608	H083-S	083S	C-083-S	WAH083S
1/2	SD-084	A 16650	47610	H084-S	084S	C-084-S	WAH084S
3/8	SD-163	A 16653	47614	H163-S	163S	C-163-S	WAH163S
1/2	SD-164	A 16654	47616	H164-S	164S	C-164-S	WAH164S
5/8	SD-165	A 16655	47618	H165-S	165S	C-165-S	WAH165S
3/4	SD-166	A 16657	NA	NA	NA	NA	NA
7/8	SD-167	A 16656	47619	NA	NA	C-167-S	NA
3/8	SD-303	A 16658	48211	NA	303S	C-303-S	WAH303S
1/2	SD-304	A 16659	48213	H304-S	304S	C-304-S	WAH304S
5/8	SD-305	A 16660	48215	H305-S	305S	C-305-S	WAH305S
7/8	SD-307	A 16662	48217	H307-S	307S	C-307-S	WAH307S
1 1/8	SD-309	A 16661	48218	NA	NA	C-309-S	NA
3/8	SD-413	A 16663	NA	NA	NA	NA	WAH413S
1/2	SD-414	A 16664	48221	NA	414S	C-414-S	WAH414S
5/8	SD-415	A 16665	48223	H415-S	415S	C-415-S	WAH415S
7/8	SD-417	A 16667	48224	NA	417S	C-417-S	WAH417S
1 1/8	SD-419	A 16668	48225	NA	NA	C-419-S	NA

Suction Line Filter Driers

Flare Connections							
Size	Style	Mueller	Alco	Henry	Parker	Sporlan	Virginia KMP
1/2	FDF-164-TT	A 17225	NA	NA	NA	NA	WSL-164
5/8	FDF-165-TT	A 17226	49170	NA	NA	NA	WSL-165
Solder Connections							
1/2	FDS-164-TT	A 17224	49169	HS164-S	NA	C-164-S-T-HH	WSL-164S
5/8	FDS-165-TT	A 17227	49171	HS165-S	SLD-135SV-HH	C-165-S-T-HH	WSL-165S
3/4	FDS-166-TT	A 17228	49172	HS166-S	SLD-136SV-HH	C-166-S-T-HH	WSL-166S
7/8	FDS-167-TT	A 17229	49173	HS167-S	SLD-137SV-HH	C-167-S-T-HH	WSL-167S
1 1/8	FDS-169-TT	A 17230	NA	NA	SLD-139SV-HH	NA	NA
1 1/8	FDS-309-TT	A 17231	49174	NA	SLD-27-9SV-HH	C-309-S-T-HH	NA
5/8	FDS-305-TT	A 17300	NA	NA	NA	C-305-S-T-HH	WSL-305S
3/4	FDS-306-TT	A 17301	NA	NA	NA	C-306-S-T-HH	WSL-306S
7/8	FDS-307-TT	A 17302	NA	HS307-S	SLD-27-7SV-HH	C-307-S-T-HH	WSL-307S

Heat Pump Filter Drier

Size	Style	Mueller	Alco	Henry	Parker	Virginia KMP
Flare Connections						
3/8	HPF-083	A 17388	BFK083	NA	BF083	V2A083
3/8	HPF-163	A 17390	BFK163	NA	BF163	V2A163
1/2	HPF-164	A 17983	BFK164	NA	BF164	V2A164
5/8	HPF-165	A 17984	BFK165	NA	NA	V2A165
Solder Connections						
3/8	HPS-083	A 17389	BFK083S	HP083-S	BF083S	V2A083S
3/8	HPS-163	A 17391	BFK163S	HP163-S	BF163S	V2A163S
1/2	HPS-164	A 17392	BFK164S	HP164-S	BF164S	V2A164S
5/8	HPS-165	A 17985	BFK165S	HP165-S	BF165S	V2A165S

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Brass Fitting Cross Reference

Flare Fittings

Unv. Part	Mueller	Unv. Part	Mueller	Unv. Part	Mueller	Unv. Part	Mueller
B1-3	A 04737	K1-1	A 08073	T6-4	A 06330	UR3-84	A 00480
B1-4	A 00414	K1-3	A 08274	TR2-46	A 04994	UR3-86	A 00481
B1-5	A 04935	K1-5	A 08276	TR2-64	A 04574	US3-1010	A 02258
B1-6	A 00415	K1-8	A 08166	TR2-68	A 04547	US3-1012	A 02272
B1-8	A 00416	N4-4	A 00440	TR2-84	A 04558	US3-1014	A 02378
B1-10	A 00485	N4-5	A 01110	TR2-86	A 04559	US3-108	A 03519
B1-12	A 04738	N4-6	A 00441	TR2-810	A 04991	US3-1212	A 05307
B2-3	A 05156	N4-8	A 00442	U1-10B	A 05035	US3-1214	A 05425
B2-4	A 00401	N4-10	A 01112	U1-10C	A 01195	US3-44	A 03431
B2-5	A 04811	N4-12	A 04731	U1-10D	A 04540	US3-45	A 03466
B2-6	A 00402	N5-4	A 04544	U1-10E	A 04827	US3-46	A 03494
B2-8	A 00403	N5-5	A 04758	U1-12C	A 05005	US3-610	A 06601
B2-10	A 05186	N5-6	A 04545	U1-12D	A 04739	US3-64	A 03443
B2-12	A 04822	N5-8	A 04546	U1-12E	A 04740	US3-65	A 03464
E1-10C	A 04856	N5-10	A 04560	U1-3A	A 01117	US3-66	A 03492
E1-10D	A 04538	N5-12	A 04951	U1-4A	A 00330	US3-68	A 03547
E1-10E	A 05054	NFT5-4	A 16447	U1-4B	A 04585	US3-810	A 02259
E1-12D	A 04776	NFT5-6	A 16448	U1-4C	A 01197	US3-86	A 03504
E1-12E	A 04746	NRS4-43	A 05132	U1-4D	A 04628	US3-88	A 03546
E1-4A	A 00335	NRS4-54	A 05247	U1-5A	A 00331	US4-10	A 13568
E1-4B	A 04890	NRS4-64	A 05140	U1-5B	A 05036	US4-4	A 13563
E1-4C	A 04812	NRS4-65	A 05282	U1-5C	A 01198	US4-5	A 13564
E1-6A	A 04937	NRS4-86	A 05141	U1-6A	A 05003	US4-6	A 13565
E1-6B	A 00337	NRS4-108	A 05228	U1-6B	A 00332	US4-8	A 13567
E1-6C	A 04889	NS4-3	A 05238	U1-6C	A 01199	US5-1010	A 15728
E1-6D	A 04886	NS4-4	A 05051	U1-6D	A 04993	US5-1212	A 15729
E1-8B	A 05044	NS4-5	A 05239	U1-8A	A 05034	US5-44	A 15725
E1-8C	A 00339	NS4-6	A 05052	U1-8B	A 04439	US5-66	A 15726
E1-8D	A 04887	NS4-8	A 05053	U1-8C	A 00334	US5-88	A 15727
E1-8E	A 05072	NS4-10	A 05157	U1-8D	A 04780		
E2-4	A 00147	NS4-12	A 05222	U1-8E	A 05066		
E2-6	A 00146	NS4-14	A 05227	U2-10	A 04845		
E2-8	A 00145	P2-3	A 05045	U2-12	A 04733		
E2-10	A 04539	P2-4	A 00121	U2-3	A 04621		
E2-12	A 04745	P2-5	A 00124	U2-4	A 00325		
E3-4A	A 04630	P2-6	A 00122	U2-5	A 00326		
E3-4B	A 05007	P2-8	A 00123	U2-6	A 00327		
E3-6B	A 04632	P2-10	A 04536	U2-8	A 00329		
E3-6C	A 04914	P2-12	A 04757	U3-10C	A 04929		
E3-8D	A 05056	P3-A	A 00250	U3-10D	A 04819		
E4-44	A 04898	P3-B	A 00249	U3-10E	A 04977		
E4-66	A 08082	P3-C	A 00425	U3-4A	A 04622		
E4-88	A 04897	P3-D	A 04759	U3-4B	A 04625		
ER2-84	A 04885	P3-E	A 05004	U3-4C	A 04961		
ER2-86	A 05042	P3-F	A 04850	U3-6A	A 04927		
ES2-1010	A 06611	RI-AB	A 08756	U3-6B	A 04624		
ES2-44	A 03449	RI-BA	A 00630	U3-6C	A 04627		
ES2-66	A 03511	RI-CB	A 00631	U3-6D	A 08104		
ES2-68	A 07852	RI-DB	A 00492	U3-8B	A 04928		
ES2-88	A 07851	RI-DC	A 00632	U3-8C	A 04727		
ES4-44	A 15940	RI-EC	A 00493	U3-8D	A 04728		
ES4-66	A 15941	RI-ED	A 00633	U4-4	A 00385		
ES4-88	A 15943	TI-4A	A 00345	U4-6	A 00386		
ES4-1010	A 15944	TI-4B	A 04859	U4-8	A 00387		
ES4-1212	A 15945	TI-4C	A 04771	UR2-106	A 05334		
FP-A	A 14058	TI-6B	A 00347	UR2-108	A 04846		
FP-A	A 15214	TI-6C	A 04922	UR2-1210	A 04784		
FP-A	A 14017	TI-8B	A 05246	UR2-128	A 04734		
FP-B	A 14019	TI-8C	A 00349	UR2-43	A 05270		
FP-B	A 14018	TI-8D	A 04924	UR2-54	A 08730		
FP-B	A 14059	TI-10D	A 04754	UR2-64	A 01171		
FP-C	A 14021	T2-4	A 00340	UR2-65	A 04981		
FP-C	A 14022	T2-6	A 00342	UR2-84	A 00356		
FP-C	A 14060	T2-8	A 00344	UR2-86	A 00149		
FU-4B	A 14023	T2-10	A 04541	UR3-1012	A 04878		
FU-4B	A 14024	T2-12	A 04749	UR3-108	A 04770		
FU-4B	A 14062	T3-4A	A 00127	UR3-1210	A 04829		
FU-4C	A 14050	T3-4B	A 04998	UR3-43	A 05147		
FU-4C	A 14063	T3-6B	A 00133	UR3-46	A 05041		
FU-4C	A 14025	T3-6C	A 04941	UR3-48	A 08127		
FU-6C	A 14026	T3-8C	A 04778	UR3-64	A 00479		
FU-6C	A 14027	T3-8D	A 04944	UR3-68	A 04888		
FU-6C	A 14064	T3-10D	A 04779	UR3-810	A 04879		

Compressor Valve Cross Reference

Valve	Kit	Fitting Size	Seat Position	Body	Material	Standard Seal Cap Seal Cap	Gasket	O Ring	Kit	Plastic	Brass	Replacement Seal Cap Steel	Cast Iron	Replacement Kit
A 13166		3/4" FL	M	A 04707	BRASS	A 04775	A 04710		A 15099***	P 34632 *	A 15099***			A 17419
A 15085		7/8" ODS	M	A 04707	PLASTIC	P 34632**			A 15099***	P 34632 *	A 15099***			A 17419
A 15246		1 5/8"	M	A 09621	PLASTIC	N 02848		P 34711	A 17667**	A 17667**			A 09622 Cap & P 34711 O-Ring	A 17421
A 15500		1 1/8" ODS	B	A 04707	PLASTIC	P 34632**				P 34632 *	A 15099***			A 17419
A 15586	A 17535 B 33461	2 1/8"	M	A 06201	PLASTIC	N 02849		P 34712	A 17668**	A 17668**			A 06250 Cap & P 34712 O-Ring	A 17422
A 15587		2 5/8"	M	A 06201	PLASTIC	N 02849		P 34712	A 17668**	A 17668**				A 17422
A 15588		3 1/8"	M	A 06203	CAST IRON	A 06251		P 35589	A 17907**			P 36128 Cap & P 35589 O-Ring		A 17423
A 15589		4 1/8"	M	A 06205	CAST IRON	A 06252		P 32709					A 06252 Cap & P 32709 O-Ring	A 17424
A 16302	A 17518	3/8" FL	M	A 09464	STEEL	A 04566				A 16474***		A 04566		A 17420
A 16303	A 17519	1/2" FL	M	A 09464	STEEL	A 04566				A 16474***		A 04566		A 17420
A 16304	A 17520	5/8" FL	M	A 09464	STEEL	A 04566				A 16474***		A 04566		A 17420
A 16307	A 17510	3/8" ODS	F	A 09464	STEEL	A 04566				A 16474***		A 04566		A 17420
A 16308	A 17511	1/2" ODS	F	A 09464	STEEL	A 04566				A 16474***		A 04566		A 17420
A 16309	A 17512 A 17531 B 33355	5/8" ODS	F	A 09464	STEEL	A 04566				A 16474***		A 04566		A 17420
A 16310	A 17517	3/4" ODS	F	A 04707	PLASTIC	P 34632**				P 34632 *	A 15099***			A 17419
A 16311	A 17515	7/8" ODS	F	A 04707	PLASTIC	P 34632**				P 34632 *	A 15099***			A 17419
A 16312	A 17516	1 1/8" ODS	F	A 04707	PLASTIC	P 34632**				P 34632 *	A 15099***			A 17419
A 16313		3/4" ODS	M	A 03416	PLASTIC	P 34632**				P 34632 *	A 15099***			A 17419
A 16314	A 17527	7/8" ODS	M	A 03416	PLASTIC	P 34632**				P 34632 *	A 15099***			A 17419
A 16315	A 17525	1 1/8" ODS	M	A 03416	PLASTIC	P 34632**				P 34632 *	A 15099***			A 17419
A 16316	A 17526	1 3/8" ODS	M	A 03416	PLASTIC	P 34632**				P 34632 *	A 15099***			A 17419
A 16317	A 17528 B 33350	7/8" ODS	M	A 04707	PLASTIC	P 34632**				P 34632 *	A 15099***			A 17419
A 16318		—	F	A 03416	PLASTIC	P 34632**				P 34632 *	A 15099***			
A 16321	A 17513	1 5/8"	F	A 09621	PLASTIC	N 02848		P 34711	A 17667**	A 17667**			A 09622 Cap & P 34711 O-Ring	A 17421
A 16324	A 17523	2 1/8"	F	A 09621	PLASTIC	N 02849		P 34712	A 17668**	A 17668**			A 06250 Cap & P 34712 O-Ring	A 17422
A 16365	A 17521	3 1/8"	F	A 06203	CAST IRON	A 06251		P 35589	A 17907**			P 35128 Cap & P35589 O-Ring		A 17423
A 16366	A 17522	2 5/8"	F	A 06203	CAST IRON	A 06251		P 35589	A 17907**			P 35589 O-Ring		A 17423
A 16367	A 17524	1 5/8"	F	A 06201	PLASTIC	N 02849		P 34712	A 17668**	A 17668**			A 06250 Cap & P 34712 O-Ring	A 17422
A 16493		2 1/8"	F	A 06201	PLASTIC	N 02849		P 34712	A 17668**	A 17668**			P 34712 O-Ring	A 17422
A 16494										A 17667**			A 09622 Cap & P 34711 O-Ring	A 17421
A 16495										A 17667**			A 09622 Cap & P 34711 O-Ring	A 17421
A 16496		1 5/8"	F	A 09621	PLASTIC	N 02848		P 34711	A 17667**					A 17421
A 17496		3 5/8"	M	A 06204	CAST IRON	A 06251		P 35589	A 17907**			P 36128 Cap & P 35589 O-Ring		A 17423
A 17681		1 5/8"	F	A 09621	PLASTIC	N 02848		P 34711	A 17667**	A 17667**			A 09622 Cap & P 34711 O-Ring	A 17421
B 10946		7/8" ODS	M	F 08002	PLASTIC	P 34632**				P 34632 *	A 15099***			A 17419

* Includes O-Ring
 ** Seal Cap & O-Ring Kit
 *** Cap & Cap Gasket Kit

Seat Position:
 B = Back
 F = Front
 M = Mid

Compressor Valve Cross Reference

Valve	Kit	Fitting Size	Seat Position	Body	Material	Standard Seal Cap Seal Cap	Gasket	O Ring	Kit	Plastic	Brass	Replacement Seal Cap Steel	Cast Iron	Replacement Kit
B 32011	A 17529	3/4" ODS	M	A 04716	BRASS	A 04775	A 04710		A 15099***	P 34632 *	A 15099***			A 17419
B 32197	B 33357	7/8" ODS	M	A 04715	PLASTIC	P 34632**				P 34632 *	A 15099***			A 17419
B 32224		5/8" ODS	M	F 17142	BRASS	A 04597	A 03468		A 16474****	A 17667**	A 16474****	A 04566		A 17420
B 32337		1 5/8"	F	A 09621	PLASTIC	N 02848		P 34711	A 17667**				A 09622 Cap & P 34711 O-Ring	A 17421
B 32807	A 17532	1 1/8" ODS	M	F 27950	PLASTIC	P 34632**			P 35915**	P 34632 *	A 15099***			A 17418
B 32808	B 33361	1 3/8" ODS	M	F 27955	PLASTIC	P 34632**			P 35915**	P 34632 *	A 15099***			A 17418
B 32930	B 33352	1 5/8" ODS	M	F 29201	PLASTIC	P 34632**			P 35915**	P 34632 *	A 15099***			A 17418
B 33288		1 3/8" ODS	M	F 32908	BRASS	A 04775	A 04710		A 15099***	P 34632 *	A 15099***			A 17419
B 33292		1 3/8" ODS	M	A 04707	BRASS	A 04775	A 04710		A 15099***	P 34632 *	A 15099***			A 17419
B 33335		7/8" ODS	M	A 04707	BRASS	A 04775	A 04710		A 15099***	P 34632 *	A 15099***			A 17419
B 33367	A 17530	1 1/8" ODS	M	F 33468	PLASTIC	P 34632**				P 34632 *	A 15099***			A 17419
B 33458	B 33346	3/4" ODS	M	A 04716	BRASS	A 04775	A 04710		A 15099***	P 34632 *	A 15099***			A 17419
B 33492		7/8" ODS	M	TURN OFF B	PLASTIC	P 34632**				P 34632 *	A 15099***			A 17418
B 33493		1 1/8" ODS	M	TURN OFF B	PLASTIC	P 34632**				P 34632 *	A 15099***			A 17419
B 33494		3/4" ODS	M	TURN OFF B	PLASTIC	P 34632**				P 34632 *	A 15099***			A 17419
B 33495		1 1/8" ODS	M	TURN OFF B	PLASTIC	P 34632**				P 34632 *	A 15099***			A 17419
B 33496		5/8" ODS	M	TURN OFF B	STEEL	A 04566				A 16474****	A 04566			A 17420
B 33535		1 3/4" THD	F	F 34017	BRASS	A 04775	A 04710		A 15099***	P 34632 *	A 15099***		A 06250 Cap & P 34712 O-Ring	A 17422
B 33568		2 5/8"	F	A 06201	PLASTIC	N 02849		P 34712	A 17668**	A 17668**				A 17423
B 33569		3 1/8"	F	A 06203	CAST IRON	A 06251		P 35589	A 17907**	P 36128 Cap & P 35589 O-Ring				A 17422
B 33572		2 1/8"	F	A 06201	PLASTIC	N 02849		P 34712	A 17668**	A 17668**	A 15099***		A 06250 Cap & P 34712 O-Ring	A 17419
B 33613		7/8" ODS	M	F 33468	PLASTIC	P 34632**				P 34632 *	A 15099***			A 17419
B 33638		1 1/8" ODS	M	F 34460	BRASS	A 04775	A 04710		A 15099***	P 34632 *	A 15099***			A 17419
B 33639		1 3/8" ODS	M	F 34461	BRASS	A 04775	A 04710		A 15099***	P 34632 *	A 15099***			A 17419
B 33641		1 1/8" ODS	M	A 03416	PLASTIC	P 34632**				P 34632 *	A 15099***			A 17419
B 33647		4 1/8"	F	N 02894	CAST IRON	A 06252		P 32709		P 34632 *	A 15099***		A 06252 Cap & P 32709 O-Ring	A 17424
B 33650		7/8" ODS	B	N 02895	PLASTIC	P 34632**				P 34632 *	A 15099***			A 17419
B 33680		1 3/4" THD	M	F 34564	BRASS	A 04775	A 04710		A 15099***	P 34632 *	A 15099***			A 17419
B 33707		1 1/8" ODS	M	A 04707	BRASS	A 04775	A 04710		A 15099***	P 34632 *	A 15099***			A 17420
B 33714		5/8" ODS	M	F 33468	STEEL	A 04566				A 16474****		A 04566		A 17420
B 33720		1 1/8" ODS	M	F 34639	BRASS	A 04775	A 04710		A 15099***	P 34632 *	A 15099***			A 17420
B 33736		1 1/8" ODS	M	A 04716	BRASS	A 04775	A 04710		A 15099***	P 34632 *	A 15099***			A 17420
B 33737		7/8" ODS	M	A 04716	BRASS	A 04775	A 04710		A 15099***	P 34632 *	A 15099***			A 17420
B 33738		1 3/8" ODS	M	A 03416*	PLASTIC	P 34632**				P 34632 *	A 15099***			A 17420
B 33745		1 1/8" ODS	M	A 03416*	PLASTIC	P 34632**				P 34632 *	A 15099***			A 17420
B 33749		3/4" ODS	M	A 04707	BRASS	A 04775	A 04710		A 15099***	P 34632 *	A 15099***			A 17419
B 33765		1 1/8" ODS	F	A 04707	BRASS	A 04775	A 04710		A 15099***	P 34632 *	A 15099***			A 17419

* Includes O-Ring
 ** Seal Cap & O-Ring Kit
 *** Cap & Cap Gasket Kit
 **** Seal Cap & O-Ring Kit
 F = Front
 M = Mid
 B = Back



Compressor Valve Cross Reference

Valve	Kit	Fitting Size	Seat Position	Body	Material	Seal Cap	Standard Seal Cap Gasket	O Ring	Kit	Plastic	Brass	Replacement Seal Cap Steel	Cast Iron	Replacement Kit
B 33766		7/8"ODS		A 03416	BRASS	A 04775	A 04710		A 15099***	P 34632 *	A 15099***			
B 33768		1 3/8"ODS		A 03416	BRASS	A 04775	A 04710		A 15099***	P 34632 *	A 15099***			
B 33769	B 34318	7/8"ODS	F	A 04707	BRASS	A 04775	A 04710		A 15099***	P 34632 *	A 15099***			A 17419
B 33770		1 5/8"	F	A 09621	CAST IRON	A 09622		P 34711		A 17667**			A 09622 Cap & P 34711 O-Ring	A 17421
B 33771	B 34325	2 1/8"	F	A 06201	CAST IRON	A 06250		P 34712		A 17668**			A 06250 Cap & P 34712 O-Ring	A 17422
B 33772	B 34319	7/8"ODS	M	A 04715	BRASS	A 04775	A 04710		A 15099***	P 34632 *	A 15099***			A 17419
B 33773	B 34322	1 1/8"ODS	M	F 27950	BRASS	A 04775	A 04710		A 15099***	P 34632 *	A 15099***			
B 33774	B 34323	1 3/8"ODS	M	F 27955	BRASS	A 04775	A 04710		A 15099***	P 34632 *	A 15099***			
B 33775	B 34324	1 5/8"ODS	M	F 29201	BRASS	A 04775	A 04710		A 15099***	P 34632 *	A 15099***			
B 33776	B 34320	1 1/8"ODS	M	F 33468	BRASS	A 04775	A 04710		A 15099***	P 34632 *	A 15099***			A 17419
B 33782	B 34321	5/8"ODS	M	A 09464	BRASS	A 04597	A 03468		A 16474****		A 16474****	A 04566		A 17420
B 33784		2 5/8"	F	A 06201	PLASTIC	N 02849		P 34712	A 17668**	A 17668**			A 06250 Cap & P 34712 O-Ring	
B 33785		1 1/8"ODS	M	F 34764	PLASTIC	P 34632**				P 34632 *				A 17419
B 33786		7/8"ODS	M	F 34763	PLASTIC	P 34632*				P 34632 *	A 15099***			A 17419
B 33788		3 5/8"ODS	F	A 06204	CAST IRON	A 06251		P 35589	A 17907**			P 36128 Cap & P 35589 O-Ring	A 17907**	A 17423
B 33789		1 1/8"ODS	F	F 27950	PLASTIC	P 34632**				P 34632 *	A 15099***			A 17418
B 33790		1 3/8"ODS	F	F 27955	PLASTIC	P 34632**				P 34632 *	A 15099***			A 17418
B 33791		1 5/8"ODS	F	F 29201	PLASTIC	P 34632*				P 34632 *	A 15099***			A 17418
B 33793		2-3 TURNS OFF		A 06201	PLASTIC	N 02849		P 34712	A 17668**	A 17668**			A 06250 Cap & P 34712 O-Ring	A 17422
B 33794		2-3 TURNS OFF		A 06203	CAST IRON	A 06251		P 35589	A 17907**			P 36128 Cap & P 35589 O-Ring	A 17907**	A 17422
B 33795		2-3 TURNS OFF		A 06205	CAST IRON	A 06252		P 32709				A 06252 Cap & P 34711 O-Ring		A 17424
B 33801		3/4"ODS	M	F 34938	BRASS	A 04775	A 04710		A 15099***	P 34632*	A 15099***			
B 33808		1 1/4-37"THD		F 34789	BRASS	A 04775	A 04710		A 15099***	P 34632*	A 15099***			
B 33813		1 3/8"	F	A 09621	CAST IRON	A 09622		P 34711		A 17667**			A 09622 Cap & P 34711 O-Ring	A 17421
B 33839		3/4"FL	M	A 04707	PLASTIC	P 34632**				P 34632*	A 15099***			
B 33842		1 5/8"	F	A 06201	CAST IRON	A 06250		P 34712		A 17668**			A 06250 Cap & P 34712 O-Ring	
B 33847		1 3/8"ODS		F 34889								Flange N/A		
B 33864		5/8"ODS	M	A 09464	STEEL	A 04566				A 16474****	A 04566			
B 33926		3/4"ODS	M	A 04707	PLASTIC	P 34632*				P 34632*	A 15099***			
B 33945			F	N 02894	CAST IRON	A 06252		P 32709					A 06250 Cap & P 32709 O-Ring	
B 34069		1 3/8"ODS		F 34461	BRASS	A 04775	A 04710		A 15099***	P 34632*	A 15099***			
B 34174		7/8"ODS	M	A 04715	PLASTIC	P 34632**				P 34632*	A 15099***			
B 34181		1 3/8"ODS	M	F 35636	PLASTIC	P 34632*								
B 34183			F	C 35634	PLASTIC	N 02848		P 34711	A 17667**				A 09622 Cap & P 34711 O-Ring	
B 34229		1 1/8"ODS		A 03416	BRASS	A 04775	A 04710		A 15099***	P 34632 *	A 15099***			
B 34314		2 5/8"	F	C 35800	CAST IRON	C 35804		P 35589				P 36128 Cap & P 35589 O-Ring	C 35804 Cap & P 34712 O-Ring	
B 34315		3 5/8"	F	C 35801	CAST IRON	C 35804		P 35589				P 36128 Cap & P 35589 O-Ring	C 35804 Cap & P 34712 O-Ring	
B 34423		1 5/8"ODS		F 35805								Flange N/A		
B 34429		2 1/8"	F	C 35815	PLASTIC	N 02849		P 34712	A 17668**	A 17668**			A 06250 Cap & P 34712 O-Ring	

Seat Position:

B = Back

F = Front

M = Mid

* Includes O-Ring

** Seal Cap & O-Ring Kit

*** Cap & Cap Gasket Kit

Compressor Valve Cross Reference

Valve	Kit	Fitting Size	Seat Position	Body	Material	Standard Seal Cap Seal Cap	Gasket	O Ring	Kit	Plastic	Brass	Replacement Seal Cap Steel	Cast Iron	Replacement Kit
B 34423		1 5/8"ODS	F	F 35805										
B 34429		2 1/8"	F	C 35815	PLASTIC	N 02849		P 34712	A 17668**	A 17668**		Flange N/A	A 06250 Cap & P 34712 O-Ring	A 17418
B 34497			F	C 35901	CAST IRON	A 06251		P 35589	A 17907**			P 36128 Cap & P 35589 O-Ring		
B 34498			F	A 06201	PLASTIC	N 02849		P 34712	A 17668**	A 17668**				
B 34521		1 3/8"	M	F 35892	PLASTIC	P 34632*				P 34632*	A 15099**			
B 34536		7/8"ODS	M	F 36018	BRASS	A 04775	A 04710		A 15099**	P 34632*	A 15099**			
B 34552		7/8"ODS	M	A 04707	PLASTIC	P 34632*			P 35915**	P 35915**	A 15099**			
B 34554									P 35915**	P 35915**	A 15099**			
B 34555									P 35915**	P 35915**	A 15099**			
B 34556		1 1/8"ODS	M	F 33468	PLASTIC	P 34632*			P 35915**	P 35915**	A 15099**			
B 34557		7/8"ODS	M	F 33468	PLASTIC	P 34632*			A 17668**	P 35915**	A 15099**			
B 34582		2 5/8"	F	C 35815	PLASTIC	N 02849		P 34712		P 35915**	A 15099**		A 06250 Cap & P 34712 O-Ring	
B 34659		1 1/8"ODS		F 36091								Flange N/A		
B 34661		2 5/8"	F	C 35800	CAST IRON	C 35804		P 35589				P 36128 Cap & P 35589 O-Ring	C 35804 Cap & P 35589 O-Ring	
B 34670		3 3/8"	F	C 35801	CAST IRON	C 35804		P 35589				P 36128 Cap & P 35589 O-Ring	C 35804 Cap & P 35589 O-Ring	
B 34671		2 1/8"	F	C 35815	PLASTIC	N 02849		P 34712	A 17668**	A 17668**			A 06250 Cap & P 34712 O-Ring	
B 34672		7/8"ODS		F 36105								Flange N/A		
B 34673		1 1/8"ODS		F 36106								Flange N/A		
B 34715			2-3 TURNS OFF	C 36126	STEEL	P 36128		P 35589				P 36128 Cap & P 35589 O-Ring	A 17907**	
B 34761			F	A 06201	PLASTIC	N 02849		P 34712	A 17668**	A 17668**			A 06250 Cap & P 34712 O-Ring	
B 34768			F	A 06203	CAST IRON	A 06251		P 35589	A 17907**			P 36128 Cap & P 35589 O-Ring	A 17907**	
B 34839		7/8"ODS	M	A 04715	PLASTIC	P 34632*			P 35915**	P 35915**	A 15099**			
B 34871		1 3/8"ODS		F 34461	BRASS	A 04775	A 04710		A 15099**	P 34632*	A 15099**			
B 34872		1 1/8"ODS		F 34460	BRASS	A 04775	A 04710		A 15099**	P 34632*	A 15099**			
B 34908		1 1/8"ODS		A 03416	PLASTIC	P 34632*				P 34632*	A 15099**			
B 34921										P 34632*	A 15099**			
B 34927		7/8"ODS	M	F 33468	PLASTIC	P 34632*				P 34632*	A 15099**			
B 34929			F	A 06205	CAST IRON	A 06252		P 32709					A 06250 Cap & P 32709 O-Ring	
B 34977		1 1/8"ODS	M	A 04707	PLASTIC	P 34632*								
B 34978		3/4"ODS	M	A 04716	PLASTIC	P 34632*								
B 34982														
B 34986		7/8"ODS	M	F 33468	PLASTIC	P 34632*			P 35915**					
B 34987		2 5/8"		C 36360										
B 34988		3 5/8"		C 36353										
B 35049			F	C 35815	PLASTIC	N 02849		P 34712	A 17668**					
B 35163		1 5/8"ODS	M	F 36386	PLASTIC	P 34632*								
B 35164		3/4"ODS	M	A 04707	PLASTIC	P 34632*			P 35915**					
B 35308		AMMONIA	2-3 TURNS OFF	A 06201	PLASTIC	N 02849		P 36264						
B 34667		1 1/8"ODS	M	F 36125	PLASTIC	P 34632*				P 34632*	A 15099**			

* Includes O-Ring
 ** Seal Cap & O-Ring Kit
 *** Cap & Cap Gasket Kit
 **** Seal Cap & O-Ring Kit
 Seat Position:
 B = Back
 F = Front
 M = Mid



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A 17388	38	A 17984	38	APMI7869	2	AYI7871	5	B 35049	15
A 17389	38	A 17985	38	APMI7870	2	AYI7872	5	B 35049	17
A 17390	38	A 18025	43	APMI7871	2	AYS17861	5	B 35122	46
A 17391	38	A 18096	41	APMI7872	2	AYS17862	5	B 35123	46
A 17392	38	A 18097	41	aqI7860	2	AYS17863	5	B 35124	46
A 17429	21	A 18098	41	AQI7861	2	AYS17864	5	B 35125	46
A 17430	32	A 18099	41	AQI7862	2	AYS17865	5	B 35126	46
A 17474	21	A 18100	41	AQI7863	2	AYS17868	5	B 35127	46
a 17496	16	A 18101	39	AQI7864	2	AYS17871	5	B 35128	46
A 17502	22	A 18102	39	AQI7865	2	AYS17872	5	B 35129	46
A 17503	22	A 18103	39	AQI7866	2	B 32080	20	B 35130	46
A 17506	20	A 18104	39	AQI7867	2	B 32197	13	B 35131	46
A 17510	12	A 18106	39	aqI7868	2	B 32222	22	B 35132	46
A 17511	12	A 18107	39	AQI7871	2	B 32337	16	B 35133	46
A 17512	12	A 18108	39	AQI7872	2	B 32807	14	B 35134	46
a 17513	16	A 18110	40	AQMI7859	2	B 32808	14	B 35135	46
A 17515	13	A 18111	40	AQMI7860	2	B 32930	14	B 35136	46
A 17516	13	A 18112	40	AQMI7861	2	b 33367	13	B 35137	46
A 17517	13	A 18113	40	AQMI7862	2	B 33482	22	B 35138	46
A 17518	12	A 18114	40	AQMI7863	2	b 33568	16	B 35139	46
A 17519	12	A 18115	40	AQMI7864	2	b 33569	16	B 35160	22
a 17520	12	A 18116	40	AQMI7865	2	b 33572	16	B 35161	22
A 17521	16	A 18117	40	AQMI7866	2	B 33746	32	B 35162	23
A 17522	16	A 18118	40	AQMI7867	2	B 33752	30	B 35224	26
A 17523	16	A 18119	42	AQMI7868	2	B 33753	30	B 35271	34
A 17524	16	A 18120	42	AQMI7869	2	B 33754	32	B 35272	34
A 17525	14	A 18121	42	AQMI7870	2	B 33755	32	B 35273	34
A 17526	14	A 18122	42	AQMI7871	2	B 33784	16	B 35308	15
A 17527	14	A 18123	42	AQMI7872	2	b 33788	16	B 35334	23
A 17528	13	A 18356	30	ASI7810	5	B 33793	17	B 35358	15
A 17529	13	A 18357	30	ASI7811	5	B 33794	17	B 35413	31
A 17530	13	A 18358	30	ASH18071	43	B 33803	21	I 10000	28
A 17531	12	A 18366	4	ASH18073	43	B 33837	23	I 10001	28
A 17532	14	A 18367	4	ASKI8071	43	b 33842	16	I 10002	28
A 17533	14	A 18368	4	ASKI8073	43	B 34183	17	I 10004	28
A 17534	14	A 18387	30	ATI7953	10	B 34235	9	N 02307	51
A 17535	16	A 18389	4	ATI7954	10	B 34236	9	n 02308	51
A 17545	3	A 18390	4	ATI7955	10	B 34237	9	P 36214	33
A 17546	3	A 18391	4	ATI7956	10	B 34238	9		
A 17810	5	A 18392	4	ATI7958	10	b 34239	9		
A 17811	5	A 18393	4	AUI7860	3	B 34240	9		
A 17834	30	A 18394	4	AUI7861	3	B 34241	9		
A 17840	30	A 18395	4	AUI7862	3	B 34252	22		
A 17863	2	A 18396	4	AUI7863	3	B 34254	23		
A 17864	2	A 18400	4	AUI7864	3	B 34255	22		
A 17865	2	ACI7863	2	AUI7865	3	B 34287	23		
A 17866	2	ACI7864	2	AUI7866	3	b 34314	16		
A 17867	2	ACI7865	2	AUI7867	3	b 34315	16		
a 17868	2	ACI7866	2	AUI7872	3	B 34412	26		
A 17869	2	ACI7867	2	AWI7861	4	B 34413	26		
A 17870	2	ACI7868	2	AWI7862	4	B 34414	27		
A 17871	2	ACI7869	2	AWI7863	4	B 34415	27		
A 17872	2	ACI7870	2	AWI7864	4	B 34416	27		
A 17921	34	ACI7871	2	AWI7865	4	B 34417	27		





121 Rogers Street • Hartsville, TN 37074 • 800-251-8993 • 615-374-2124
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