

Design Release

Date: August 11, 2026

Reference: Design Improvement

Product Line: CYCLEMASTER® Ball Valves with access port

Mueller Refrigeration will continue transitioning to a unibody design of their CYCLEMASTER® Ball Valves. The enhanced design features include:

- Robust body incorporates access port for increased working pressures
- Minimized joints decreasing leak potential
- Increased product flexibility for various tube configurations and materials
- Improved serviceability with easy-to-reach access port
- Durable all brass forging construction
- Compact, efficient design

CYCLEMASTER® Ball Valves are UL/cUL Listed, conform to the Pressure Equipment Directive 2014/68/EU.

The new unibody design for 1 /4" through 7/8" connection sizes transitioned in 2025. In the coming months, we will complete the transition for 1 1/8" through 2 1/8" connection sizes.

In the next few weeks, Mueller will be integrating its new unibody design along with its existing design for 1 1/8" and 1 3/8" ball valves that have access ports. Both designs offer the same performance standards and can be used interchangeably. Depending on inventory and demand, these valves will remain interchangeable for the remainder of the year, before transitioning to the unibody design at some point in 2027.

The following dimensional changes will apply:

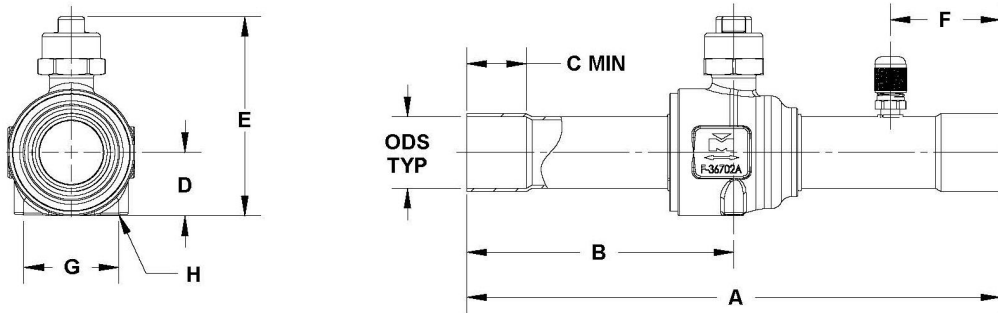
Standard

Part Number	Size	A	B		C (MIN)	D	E	F		G	H
			Previous Design	New Design				Previous Design	New Design		
AP17865	1-1/8	8.42	4.21	3.82	0.91	1.00	3.15	---		1.50	M4X0.7
A 17866	1-3/8	10.00	5.00	4.82	0.97	1.17	3.72	---		1.89	M6X1.0
A 17867	1-5/8	11.00	5.50	5.30	1.09	1.38	4.12	---		2.17	M6X1.0
A 17868	2-1/8	12.00	6.00	6.00	1.34	1.79	5.14	---		2.91	M6X1.0

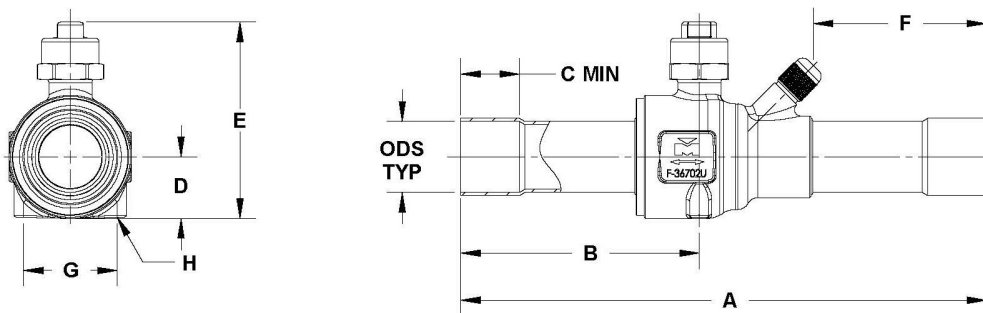
Standard with Access

Part Number	Size	A	B		C (MIN)	D	E	F		G	H
			Previous Design	New Design				Previous Design	New Design		
AQ17865	1-1/8	8.42	4.21	3.82	0.91	1.00	3.15	1.74	2.77	1.50	M4X0.7
AC17866	1-3/8	10.00	5.00	4.82	0.97	1.17	3.72	2.04	3.25	1.89	M6X1.0
AC17867	1-5/8	11.00	5.50	5.30	1.09	1.38	4.12	2.25	3.71	2.17	M6X1.0
AC17868	2-1/8	12.00	6.00	6.00	1.34	1.79	5.14	2.41	3.75	2.91	M6X1.0

Previous Design



Redesigned



For specific application questions or assistance with product selections, please contact your local Mueller Refrigeration sales representative or authorized distributor.