



Design Release

Date: August 9, 2010

Reference: Design Improvement

Product Line: Ball Valves

In response to evolving market demands requiring refrigeration and air conditioning components become more seamlessly integrated into new space saving equipment designs while improving overall performance and functionality, Mueller Refrigeration has enhanced the design of their CYCLEMASTER® Ball Valves to meet these industry challenges.

Using the latest computer-aided engineering design modeling and analysis software, Mueller Refrigeration has been able to reduce the overall footprint of the CYCLEMASTER® Ball Valve series, while maintaining critical dimensions such as overall lengths for ease of installation and replacement, and internal geometries that minimize pressure drop by line size. Market proven design features that include blow out proof stems with dual O-ring seals are retained in the new valve designs. The new designs allow greater flexibilities in mounting and installation; bi-directional flow characteristics have been maintained throughout the series, while valves have been mass optimized to minimize the potential for line fatigue.

CYCLEMASTER® series valves are UL and CE approved, and have been extensively tested and rated for use with all refrigerants and oils including systems that incorporate higher pressure refrigerants such as R-410a and subcritical CO2.

The new CYCLEMASTER® series will be released in phases by valve size, starting with the 1 1/8" series during the third quarter of 2010. Part numbers will transition as follows:

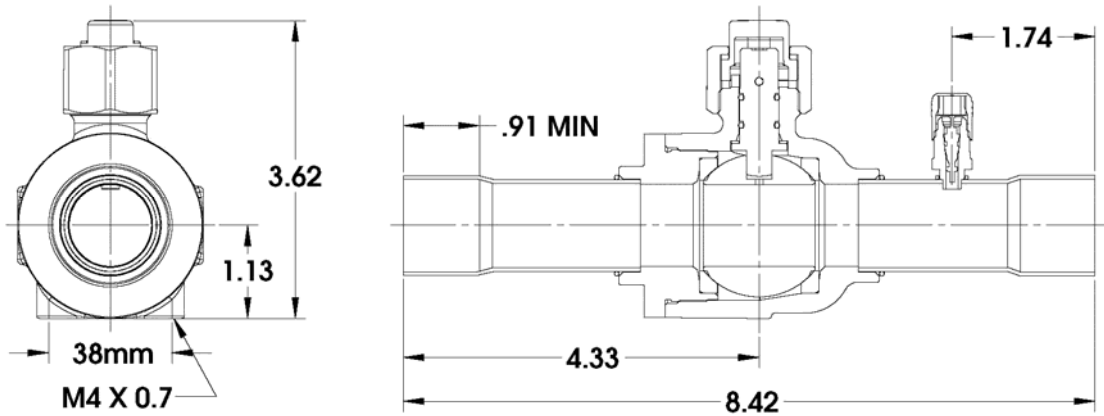
Old P/N	New P/N
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AQM17865	AQM17865A
AX17865	APX17865A

Old P/N	New P/N
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APX17865	APX17865A
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B 34481	B 34481A
B 34770	B 34770A

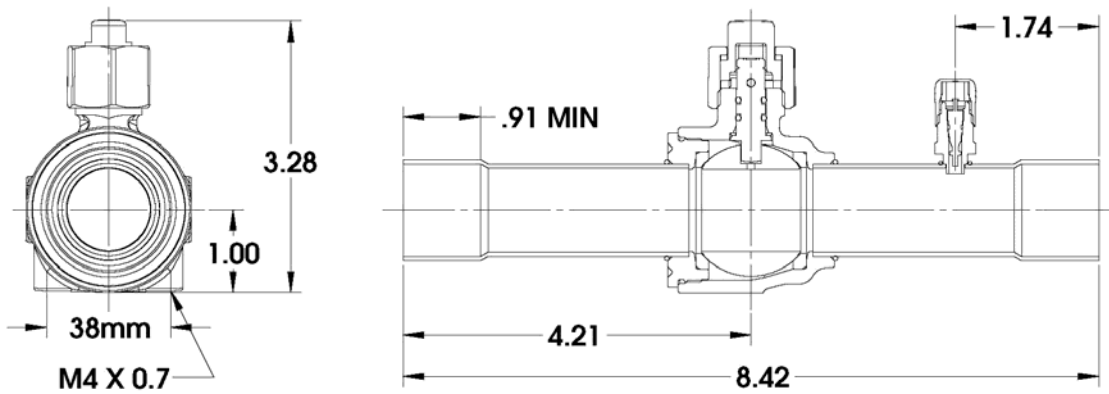
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B 35320	B 35320A
B 35369	B 35369A
B 35379	B 35379A
B 35415	B 35415A
AW17865	AW17865A
AWS17865	AWS17865A

General dimensional information can be found in the overview below.

Previous Design



Redesigned August 2010



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