

Design Release

Date: November 5, 2015

Reference: Design Improvement

Product Line: Multi Split Ball Valves

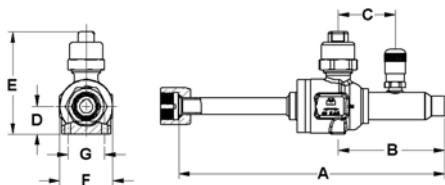
In response to evolving market demands requiring refrigeration and air conditioning components become more seamlessly integrated into new space saving equipment designs while improving overall performance and functionality, Mueller Refrigeration has enhanced the design of their CYCLEMASTER® Multi Split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

The new series of Multi Split Ball Valves will feature a unibody design. The results of this change are detailed below:

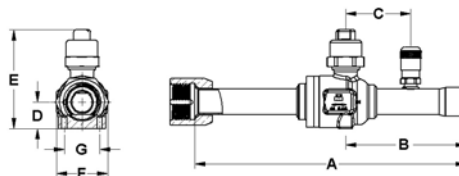
- Maximum abnormal pressure (MAP) increases from 700 psig to 775 psig
- New configurations released for Unibody ODS x ODS models.
- Minimal dimensional changes as detailed in drawings/chart below

Flare x ODS Models

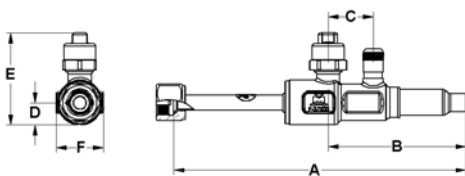
Current Design, Drawing A



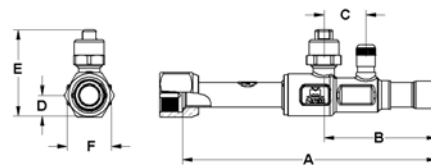
Current Design, Drawing B



Unibody Design, Drawing A



Unibody Design, Drawing B

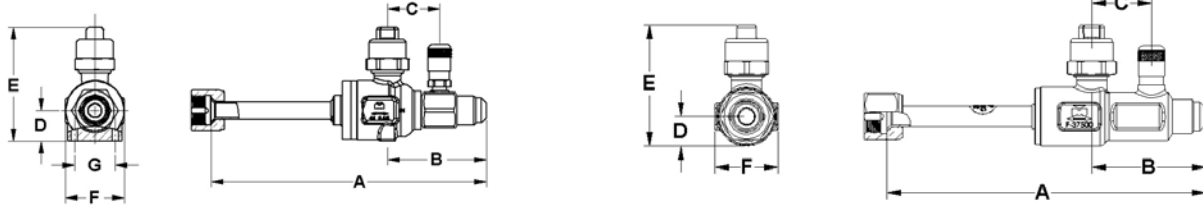


Size	CURRENT	UNIBODY	CURRENT	UNIBODY	CURRENT	UNIBODY	CURRENT	UNIBODY	CURRENT	UNIBODY	CURRENT	UNIBODY	CURRENT	UNIBODY
	A		B		C		D		E		F		G	
1/4	6.38	7.17	2.50	3.36	1.34	1.10	0.65	0.54	2.53	2.23	1.25	1.16	0.87	N/A
3/8	6.26	7.12	2.50	3.36	1.34	1.10	0.65	0.54	2.53	2.23	1.25	1.16	0.87	N/A
1/2	6.71	6.71	2.94	2.94	1.73	1.10	0.65	0.54	2.53	2.23	1.25	1.16	0.87	N/A
5/8	6.64	6.64	2.94	2.94	1.59	1.10	0.65	0.54	2.53	2.23	1.25	1.16	0.87	N/A

Female x Male Models

Current Design

Unibody Design



Size	CURRENT	UNIBODY	CURRENT	UNIBODY	CURRENT	UNIBODY	CURRENT	UNIBODY	CURRENT	UNIBODY	CURRENT	UNIBODY	CURRENT	UNIBODY
	A		B		C		D		E		F		G	
1/4	5.86	5.86	1.98	2.05	1.10	1.10	0.65	0.54	2.53	2.23	1.25	1.16	0.87	N/A
3/8	5.86	5.86	2.10	2.10	1.10	1.10	0.65	0.54	2.53	2.23	1.25	1.16	0.87	N/A
1/2	5.98	5.98	2.21	2.21	1.10	1.10	0.65	0.54	2.53	2.23	1.25	1.16	0.87	N/A
5/8	5.98	5.98	2.28	2.28	1.13	1.10	0.65	0.54	2.53	2.23	1.25	1.16	0.87	N/A
3/8 F x 1/4 M	5.74	5.81	1.98	2.05	1.10	1.10	0.65	0.54	2.53	2.23	1.25	1.16	0.87	N/A
5/8 F X 1/2 M	5.91	5.91	2.21	2.21	1.10	1.10	0.65	0.54	2.53	2.23	1.25	1.16	0.87	N/A

Mueller will begin the process of implementation during Quarter 1, 2016. A part number change will occur as current design inventory is depleted, and manufacturing transitions to the new unibody design. A cross reference of part numbers is listed below:

Connection Size	CURRENT DESIGN		UNIBODY DESIGN	
	FFL X ODS	Kit with Insulation	FFL X ODS	Kit with Insulation
1/4	A 18448	A 18611	A 18941	A 18611U
3/8	A 18405	A 18612	A 18942	A 18612U
1/2	A 18449	A 18613	A 18943	A 18613U
5/8	A 18406	A 18614	A 18944	A 18614U
Size	FFL X MFL	Kit with Insulation	FFL X MFL	Kit with Insulation
1/4	A 18450	A 18567	A 18945	A 18567U
3/8	A 18429	A 18568	A 18946	A 18568U
1/2	A 18451	A 18569	A 18947	A 18569U
5/8	A 18430	A 18570	A 18948	A 18570U
3/8 X 1/4	A 18452	A 18652	A 18949	A 18652U
5/8 X 1/2	A 18453	A 18653	A 18950	A 18653U
Size			ODS X ODS	Kit with Insulation
1/4			A 18937	A 18571U
3/8			A 18938	A 18572U
1/2			A 18939	A 18573U
5/8			A 18940	A 18574U

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