

Increased interest in the use of carbon dioxide as a refrigerant has raised questions regarding the application of various valves and components in refrigeration systems. Systems can be designed where operation may include pressures and temperatures above the critical point for CO2, known as transcritical applications.

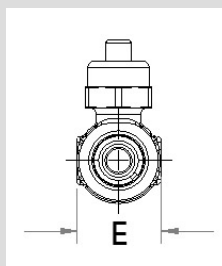
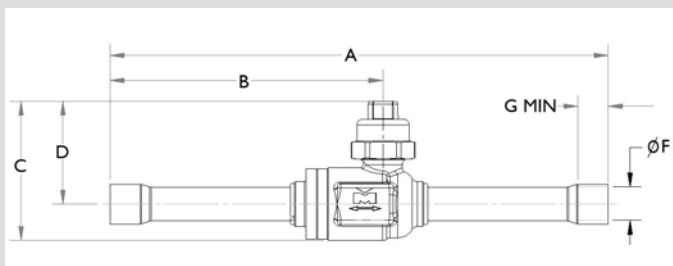
Mueller is pleased to offer a new ball valve series designed to address market requirements for transcritical applications. Featuring a unique stem design and two distinct seal sets, the Mueller ball valves assurance compliance with the higher pressures of CO2.

Features:

- Maximum abnormal pressure (MAP): 2031 psi, 140 bar
- Continuous operating temperature (COT): -40°F/250°F, -40°C/120°C
- Designed for transcritical CO2 systems
- Bi-directional flow
- Brass body with copper-iron alloy connections
- Bleed hole in ball allows for the support of gas pressure without stressing other components
- Full port construction to match line size
- Rupture-proof, internally-loaded stem
- Specially selected o-ring material compatible for CO2 operating conditions
- UL/cUL Listed, conforms to Pressure Equipment Directive 2014/68/EU and EN 378-2



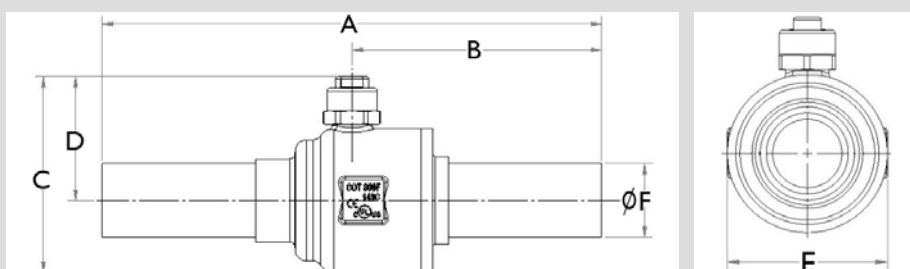
Solder Cup Connection



Part Number	Size		Cv	Kv	A		B		C Min		D		E		G **		H **	Port (in)	Wt		Seal Cap Kit
	in	mm			in	mm	in	mm	in	mm	in	mm	in	mm	in	mm			lb	kg	
A 17856XHP	3/8	10	4.3	4	5.50	140	3.01	76	1.54	39	1.14	29	0.80	20	0.31	8	M4 X 0.7	0.50	0.24	0.11	A 17842
A 17861XHP	1/2	13	6.2	5	6.35	161	3.41	87	2.23	57	1.69	43	1.14	29	0.38	10	M4 X 0.7	0.50	0.54	0.24	A 17842
A 17862XHP	5/8	17	12.1	10	6.35	161	3.41	87	2.23	57	1.69	43	1.14	29	0.50	13	M4 X 0.7	0.50	0.53	0.24	A 17842
A 17864XHP	7/8	22	27.5	24	7.45	189	3.88	99	3.35	85	2.07	53	1.76	45	0.75	19	M4 X 0.7	0.75	1.59	0.72	A 17843
A 17865XHP	1 1/8	29	54.0	47	8.41	214	4.33	110	3.97	101	2.50	64	2.26	57	0.91	23	M4 X 0.7	1.00	3.06	1.39	A 17843



Straight End Connection



Part Number	Size		Cv	Kv	A		B		C Min		D		E		G **		H **	Port (in)	Wt		Seal Cap Kit
	in	mm			in	mm	in	mm	in	mm	in	mm	in	mm	in	mm			lb	kg	
AF17866XHP	1 3/8	35	89.1	77	10.00	254	5.00	127	3.92	100	2.55	65	2.76	70	0.00	0	M6 X 1.0	1.25	4.55	2.06	A 17844
AF17867XHP	1 5/8	41	114.0	99	11.00	279	5.50	140	4.33	110	2.74	70	3.18	81	0.00	0	M6 X 1.0	1.50	6.74	3.06	A 17844
AF17868XHP	2 1/8	54	244.0	211	12.00	305	6.00	152	5.53	140	3.47	88	4.14	105	0.00	0	M6 X 1.0	2.00	13.66	6.20	A 17845



XHP Female x Female Coupling

Available through Mueller Streamline

Part Number	Size		Length	
	in	mm	in	mm
X 10148	1 3/8	2.09	53	
X 10149	1 5/8	2.24	57	
X 10150	2 1/8	2.30	58	