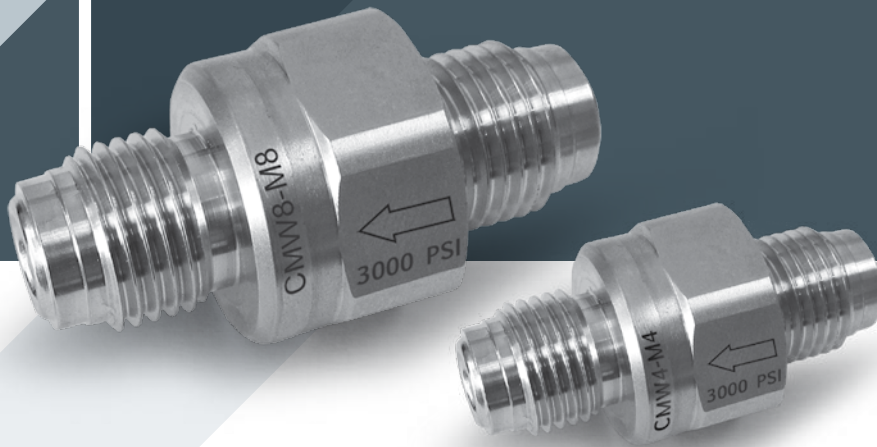


# COMPACT WELDED CHECK VALVES **CMW**

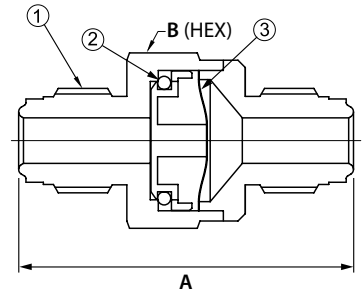


ULTRA CLEAN VALVES

**CMW SERIES**

**COMPACT WELDED CHECK VALVES**

- All-welded design ensures reliable system fluid containment
- Maximum allowable working pressure: 3000psi (206bar)
- Maximum allowable back pressure: 3000psi (206bar)
- Cracking pressure less than 2 psig (0.14 bar)
- Back pressure for valve resealing is less than 4 psig (0.28 bar)
- Surface finish options:  
Electro polish Ra(avg.) =5 μinch or mechanical finish Ra(avg.) =10 μinch



STANDARD CONFIGURATION DIMENSIONS						
Part Number	End Size	End Connection	A		B	
			inch	mm	inch	mm
CMW4 - M4	1/4"	Male Face Seal	1.80	45.8	0.87	22
CMW8 - M8	1/2"	Male Face Seal	2.06	52.3	1.06	27
CMW4 - BW4	1/4"	Buttweld	1.24	31.5	0.87	22
CMW8 - BW8	1/2"	Buttweld	1.24	31.5	1.06	27
CMW4 - GF4	1/4"	Swivel Female Face Seal	2.43	61.7	0.95	24.2
CMW4 - M4GF4	1/4"	Male Face Seal to Swivel Female Face Seal	2.11	53.7	0.87	22

SPECIFICATIONS				
Size	Pressure	Temp.	Cv	Leak Rates Inboard
1/4"	20.6MPa (3000 psi)	10- to °80C	0.55	1X <sup>9</sup> -10 atm•cc/sec Helium
1/2"			0.7	

Pressure Temperature Rating	
Temperature(C°)	Working Pressure (bar)
-23 to 40	203
100	169
150	150
200	133

STRUCTURE		
	Parts	Material
1	Body	316L Stainless Steel
2	O-Ring	Fluorocarbon FKM (FPM)
3	Spring	Alloy C-22

Flow Data at 20°C		
Pressure Drop (bar)	Air Flow (std L/min)	
	CMW4	CMW8
0.68 (9.86 psi)	168	218
3.4 (49.30 psi)	447	580
6.8 (98.6 psi)	818	1026

**ORDERING INFORMATION**

<b>CMW</b>	<b>4</b>	-	<b>M</b>	<b>4</b>	-	<b>P</b>	-	<b>OPTIONAL</b>
<b>Series</b>	<b>Body Size</b>		<b>End Connection</b>	<b>End Size</b>		<b>Surface Finish</b>		<b>O-ring Material</b>
<b>CMW</b>	<b>4</b> - 1/4" <b>8</b> - 1/2"		<b>M</b> - Male Face Seal <b>BW</b> - Buttweld <b>GF</b> - Swivel Female Face Seal	<b>4</b> - 1/4" <b>8</b> - 1/2"		<b>BLANK</b> - Mechanical Polish <b>P</b> - Electro Polish		<b>BLANK</b> - Fluorocarbon FKM are standard <b>NE</b> - Polychloroprene (CR) <b>KZ</b> - Perfluorelastomer <b>EP</b> - EPDM

**Warning!**  
The system designer and user have the sole responsibility for selecting products suitable for their special application requirements, ensuring their safe and trouble-free installation, operation, and maintenance. Application details, material compatibility and product ratings should all be considered for each selected product. Improper selection, installation or use of products can cause property damage or personal injury.

CMW, Rev.03, January 2014