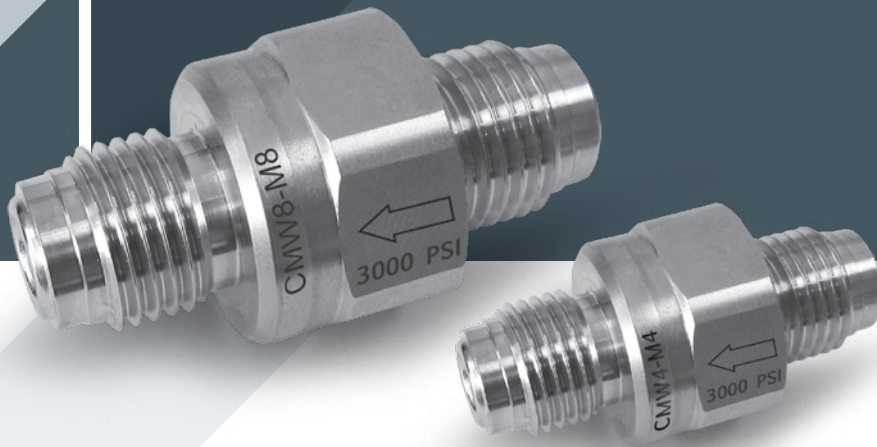


COMPACT WELDED
CHECK VALVES
CMW



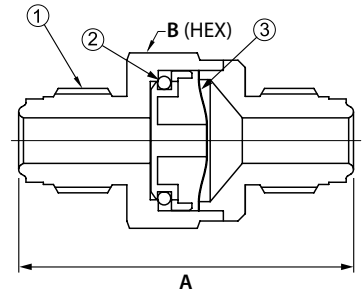
ULTRA CLEAN VALVES



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 machanical 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 ⁹ -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

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