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200 Series Cartridge Check Valve

Applications

Manifold assemblies for valve panels, compressor and dispenser packages.

Suitable for CNG, Bio Gas, Nitrogen and Air.

CC200 Series Cartridge Check Valves

Materials

Item	Part	Material
1	Body	Stainless Steel
2	Retainer	Stainless Steel
3	End Cap	Stainless Steel
4	Seat	B16 PEEK
5	O-rings	Viton

Item	Part	Material
6	Backup rings	Nitrile
7	Spring	Stainless Steel
8	Seat Insert	Aluminium

Product Information

Specifically designed for manifold applications.

Reversible poppet design allows for an easy change of flow direction setup by simply flipping the poppet body.

Cartridge pocket designed to Oasis specification.

The valve is supplied with flow direction away from the end cap and into the manifold pocket - see detail in dimensions drawing.

Tested to ISO 5208:2015 (E) class A requirements.

Complies to PED 2014/68/EU.

All products are manufactured to ISO 9001 standards.

Features & Benefits

A compact cartridge valve that reduces the weight and footprint of manifold assemblies.

Simple thread-in installation, reducing the number of leak points within the system.

Provides flexibility of flow paths with reversible check valve cartridges without the need to change manifold design.

Field proven, 300 Series high-flow poppet design offers unsurpassed durability and sealing performance.

Easily serviceable in the field with readily available Oasis service kits.

Oasis Engineering Ltd. 129 Birch Ave, Tauranga, 3110, New Zealand, Ph +64 7 9283808, info@oasisngv.com, www.oasisngv.com

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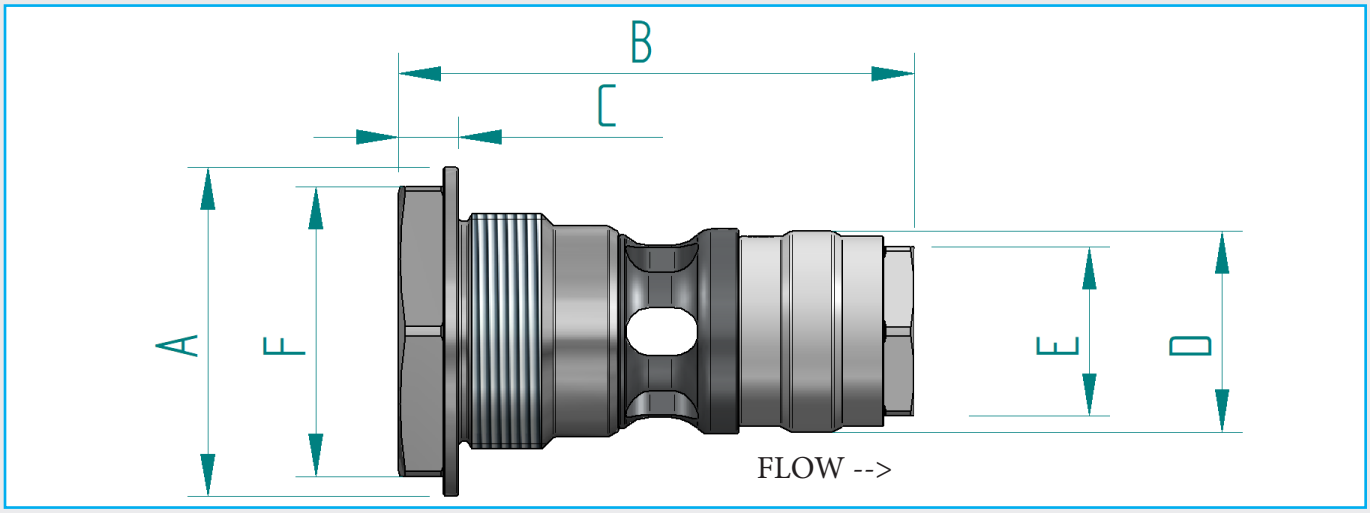

Dimensions Inch (mm)

Part Code	Size	∅ A	B	C	∅ D	E (HEX)	F (HEX)	Thread
CC204-65XFW	1/2”	2.15 (54.5)	3.37 (85.5)	0.4 (10)	1.31 (33.3)	1.1(28)	1.89(48)	M39 x 1.75
CC206-65XFW	3/4”	2.44 (62)	4.18 (106.25)	0.4 (10)	1.87 (47.6)	1.65(42)	2.17(55)	M53 x 1.75

Product Specification

Part Code	Mass lb (kg)	Min. Crack Pressure bar (psi) *	Max. Operating Pressure bar (psi) **	Min. Temp. °F (°C)	Max Temp. °F (°C)	Cycles Before Rekit^	Cv^^	Service Kit
CC204-65XFW	1.26 (0.57)	1.38 (20)	380 (5500)	-40 (-40)	185 (85)	15,000	8	CC204-SKXFW
CC206-65XFW	2.69 (1.22)	1.38 (20)	380 (5500)	-40 (-40)	185 (85)	15,000	23	CC206-SKXFW

* Minimum upstream pressure at which the valve will open.
** Maximum pressure at which the product can continuously operate
^ The temperature’s and cycles stated depend on the system conditions and may not be achievable in all situations. Contact Oasis for further information.
^^ The Cv flow rate is based on the flow through the check valve itself and does not take into account potential restrictions caused by manifold design.

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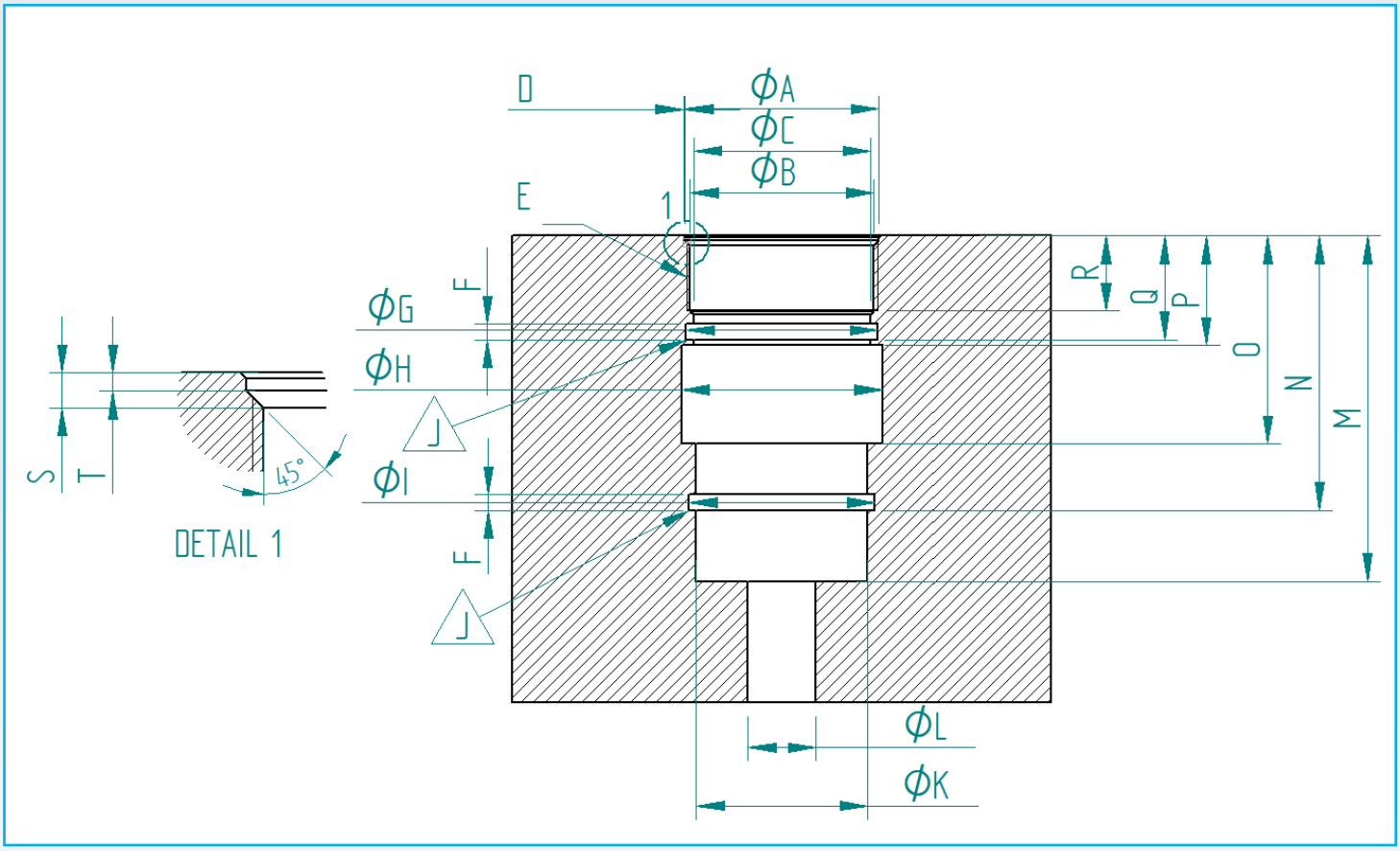

CC200 Series manifold pocket recommended dimensions

Dimensions (mm)

Part Code	∅ A	∅ B	∅ C	D	E (Thread)	F	∅ G	∅ H (min)[1]	∅ I	J (O-ring groove surface finish)
CC204-65XFW	39.7 39.3	37.19 37.09	35.02 34.98	0.5mm x 45°	M39 x 1.75 Eff ∅ 37.9 - 39.03 mm	4.46 4.36	39.09 39.05	35.05	37.49 37.45	RA: Max 0.8 Free from Nicks Burrs and Chatter
CC206-65XFW	54.2 53.8	51.19 51.09	49.29 49.25		M53 x 1.75 Eff ∅ 51.9 - 53.03 mm	4.46 4.36	53.36 53.32	49.3	51.79 51.75	

Dimensions (mm)

Part Code	∅ K	L (Port, nominal)[2]	M	N	O	P	Q	R	S	T
CC204-65XFW	33.42 33.38	1/2”	75.8 75.7	61 60.9	47.6 47.5	26.31 26.21	24.11 24.01	16.6 16.4	2.73 2.63	1.6 1.4
CC206-65XFW	47.72 37.68	3/4”	96.3 96.2	76.56 76.46	58.2 57.8	30.6 30.5	29.1 29	21.1 20.9	2.98 2.88	1.6 1.4

1 Min bore diameter shown. Bore size in this area may be increased according to manifold design requirements.
For optimal flow Oasis recommends a bore diameter of 44mm for CC204-65XFV and 56mm for CC206-65XFV.
2 Lower port only shown in drawing. A side port which intersects the flow-bore (H) will be required for operation and is subject to the manifold designers requirements.

The dimensions given are internal dimensions of the manifold pocket only, for use with Oasis CC200 series cartridge check valves. Manifold design, including strength considerations and adherance to relevant standards, as well as testing and certification of the manifold, are the responsibility of the manifold designer.

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