

Dome loaded back pressure B057

Classification according Article 4.3 of PED n° 2014/68/EU from 19/07/2016

Main material	Brass (L) – Stainless steel (I)
Threaded ports Swivelling flanges	1" BSPP ISO DN25 PN16 / PN40
Internal diameter	Ø 11 mm - Ø 15 mm
Valve insert material	Nitrile (N) – EPR (E) ** Viton (V) – Silicone (S)
Seat material	Brass (L) – Stainless steel (I)
Max inlet pressure	15 bar (C) - 100 bar (G)

^{**} EPR : Ethylene propylene

Outlet pressures ranges	Code		
0,3 to 5 bar - Diaphragm Ø 76 mm (Max inlet pressure 15 bar)	17		
0,5 to 100 bar - Diaphragm Ø 76 mm (Max inlet pressure 100 bar)	43		



Internal leak tight: Min 10-3 mbar.l/s in Helium (valve / seat)

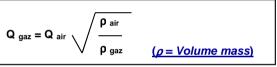
External leak tight: Min 10-4 mbar.l/s in Helium

Air flow **by bar gauge** of set pressure (connection in shunt of the process) and internal Ø 9 mm:

- Ports 1": 18 Nm3/h

For a connection on-line and/or other internal diameter, please contact us.

Flow correction in Nm3/h report to Air value :



Advised filter: F545L Option 1006

Advised fittings: T1552 G1"

Weight: 3.4 kg

*** For any set pressure < 2 absolute bar, it is advisable to divide by 2 the indicated flow values.

Main options :

Code	Option 1	Option 2	Option 3	
1500	Forged dome – 1/8" BSPP inlet pressure port	New standard version		
1504	Forged dome – 1/8" BSPP inlet pressure port	Modified valve assembly – Internal Ø 15 mm	Hydraulic version	
1505	Forged dome – 1/8" BSPP inlet pressure port			

The options define the additional particularities in the basic specification. Do not hesitate to consult us to know the best configuration for your need.

Flow and KV values are given as a rough guide.

IMF reserves the right to modify its manufacturing without advance notice.



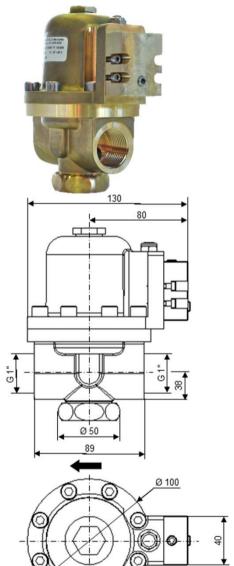
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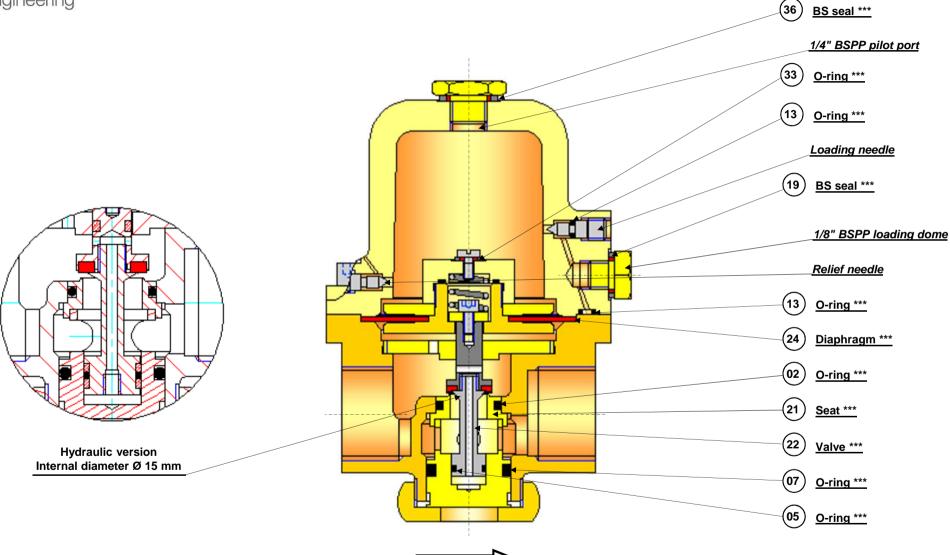




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*** Repair kit spare parts and POS of the bill of material

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Codification IMF components



- (1) The main material means the material of the envelope (external parts) of the component (the body) Generally for a component made of stainless steel, all parts in contact with the media are made of stainless steel and others are made of Nickel plated brass.
- (2) The function defined the number of ports, the number of positions and the position of the valve (opened or closed) when the valve is not energized.
- O-ring and diaphragms materials, and cleaning operating procedures are defined (3)

into the page O-ring and diaphragms materials.

- (4) The options define the complementary characteristics:
 - the "X" digits definition which are not mentioned in the table.
 - complementary definition of previous digits of the code.

The option 1000 called "STANDARD VERSION" defines the basic version of IMF components (without any particularity).

Example of codif	ication .									
Example of coun	reación.	В	057	L	G	43	N	N	L	1500
B = 057 = L = G = 43 = N = L = L =	Back Pressure Type or family Brass construction Max inlet pressure Opening range 0 to Nitrile O-ring / Cle Nitrile valve insert Brass seat	n e (MWP to 100 eaning p) 100 b bar rocedure P9							
1500 =	See the table of the	ne main	options _							



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Cleaning operating procedures define the degreasing in components and lubrication of the moving parts. **Neutral gases** are mainly **Air, Nitrogen, Argon and Helium**.

All specifications in the here under table are suitable for temperature of use - 20° to + 50° C.

For other working conditions, please let us know "both of max temperature and max working pressure".

Code	O-ring material	Cleaning operating procedure	Compatibility with main gases
0	Without O-ring	Cleaning P902	All gases except Oxygen
1	Without O-ring	Cleaning P903 suitable Oxygen	Industrial and breathable Oxygen
2	Without O-ring	Cleaning P904 Pure gas (without grease)	Pure gas process
3	Without O-ring	Cleaning P906 Pure gas (with Silicone grease)	Pure gas process suitable with Silicone grease
4	Without O-ring	Cleaning P908 Food	All food processes
Α	Nitrile O-ring	Cleaning P908 Food	Neutral gases – Food lubrication
В	EPR O-ring ***	Cleaning P903 suitable Oxygen	Industrial and breathable Oxygen- Tested by Air Liquide CTE
E	EPR O-ring ***	Cleaning P902	CO2, Chemically "basal" gases – Industrial lubrication
F	Nitrile O-ring low temperature	Cleaning P902	Neutral gases low temperature until – 45 $^{\circ}$ C – Industrial lubrication
Н	Silicone 50D8 O-ring	Cleaning P903 suitable Oxygen	Multi-gas: Neutral, CO2, Oxygen - Oxygen lubrication
М	Nitrile O-ring	Cleaning P906 Pure gas (with Silicone grease)	Neutral gases – Pure gas ubrication
N	Nitrile O-ring	Cleaning P902	Neutral gases- Industrial lubrication
0	Viton O-ring	Cleaning P903 suitable Oxygen	Industrial Oxygen – Oxygen lubrication
Q	Nitrile O-ring	Cleaning P902	Leak tightness by Composite seal for Hydrogen and Helium service
R	Nitrile O-ring	Cleaning P903 Breathable	Breathable gases - Oxygen lubrication
V	Viton O-ring	Cleaning P902	Chemically "acid" gases - Industrial lubrication
Y	Kalrez O-ring	Cleaning P902	Upon request



*** EPR = Ethylène propylène

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