IGH 3-18 industrial gas housing

Stainless steel filter housings for critical applications in Food & Beverage, Pharmaceutical and Microelectronics industries

The IGH 3-18 series are floor mounted filter housing with top flange cover specifically designed for safe and efficient filtration of compressed air and nitrogen in utility and process applications. They are available for 3 to 18 cartridges in a wide range of configurations and are manufactured in compliance with the industry standards. The stainless steel housings with high quality elektro-polish finishing provide maximum durability and resistance to corrosion while ensuring ultimate gas quality.

Together with the Atlas Copco filter cartridges series PFG-G, PFP-G, ARC, SFG-G and SMT-G they provide safe, reliable and efficient performance.

Key features:

- High flow and low pressure drop
- High quality electro-polish surface treatment
- Forward- and reverse flow version
- Top flange cover with swing bolts for easy access

Applications:

- Compressed air, nitrogen and other gases
- Pre-, after- and final filtration
- Particle removal, coalescing and sterilizing purposes

Qualifications:

- Manufacturing acc. ISO 9001
- Design ASME VIII, div. 1
- ASME UM-stamp/CE approval
- Gasket material meets FDA title 21 and EU Regulation No. 1935/2004
- Documentation (CoC, material certificates, etc.) included

Protecting process, products and people

Atlas Copco's process filters optimize your productivity while protecting your process, product and consumers. Our portfolio of cartridges and housings covers all your filtration needs. The products are made from proven, high quality materials from reputable suppliers and manufactured in a controlled environment subjected to strict QA/QC procedures.

Product specifications

Materials	
Housing	SS304/SS316L
Internals (seat cups, tie rods, compression plate, wing nuts)	SS304/SS316L
Swing bolts/washers/nuts	SS304
Gasket	Silicone, Viton, EPDM
Design	
Design code	ASME VIII div. 1
Approval	CE/UM-Stamp
Design pressure	-1/12.1 bar(g) - 14.5/175 PSIG
Design temperature	-20/94°C - -4/200 °F
Vessel style	Z - side inlet and outlet, forward flow (particle removal)
	ZR - side inlet and outlet, reverse flow (coalescing/adsorption)
Closure	CEB - Cover + swing bolts + eye nuts
	CBN - Cover + swing bolts + nuts
Installation	Fixed legs (3) for floor mounting
Finishing	
Internal/external	Electro-polish, other treatments available
Weld finishing	As welded, ground or polish options available
Options	
Differential pressure gauge	Stainless steel 0-1 bar/0-15 PSI
Ball valve	Stainless steel for drain and vent

Product configuration

Series	Housing Style	Pressure PSIG	Cartridge			Housing Material	Gasket Material	Closure	Finish	In/Outlet	Code
			No.	Length	Style						
IGH	Z[1]	175	3 / 5	10″	C7	SS304	S = Silicone	CEB	E[3]	See table	CE
	ZR[2]		7 / 10	20″	C8	SS316L	E = EPDM	CBN			UM
			12 / 18	30″							

[1] = Forward flow (outside – inside), [2] = Reverse flow (outside – inside), [3] = Electro polish (internal/external)

Example: IGH Z 175 5 20″ C8 SS316L S CBN E 4″ANSI150# UM
Note: Some combination are invalid, please check with the local Atlas Copco representative

Connections

Cartridge			Housing Diameter		Drain[1] Connection	Vent[1] Connection	Gauge[1] Connection	In/Outlet Connection	
No.	Length	No. 10"	mm	Inch				ISO1091-1 T11 B1	ANSI B16.5 RF
3	10″	3	219	8	¼″ F	¼″ F	2 x ¼″ F	DN80/PN16	3"ANSI150#
3	20″	6	219	8	¼″ F	¼″ F	2 x ¼″ F	DN58/PN16	3"ANSI150#
5	10″	5	233	9	¼″ F	¼″ F	2 x ¼″ F	DN80/PN16	3"ANSI150#
5	20″	10	233	9	¼″ F	¼″ F	2 x ¼″ F	DN80/PN16	3"ANSI150#
5	30″	15	233	9	¼″ F	¼″ F	2 x ¼″ F	DN80/PN16	3"ANSI150#
7	20″	14	272	10	¼″ F	¼″ F	2 x ¼″ F	DN100/PN16	4"ANSI150#
7	30″	21	272	10	¼″ F	¼″ F	2 x ¼″ F	DN100/PN16	4"ANSI150#
10	20″	20	305	12	½″ F	½″ F	2 x ¼″ F	DN100/PN16	4"ANSI150#
10	30″	30	305	12	½″ F	½″ F	2 x ¼″ F	DN100/PN16	4"ANSI150#
12	20″	24	355	14	½″ F	½″ F	2 x ¼″ F	DN150/PN16	6"ANSI150#
12	30″	36	355	14	½″ F	½″ F	2 x ¼″ F	DN150/PN16	6"ANSI150#
18	20″	36	405	16	½″ F	½″ F	2 x ¼″ F	DN150/PN16	6"ANSI150#
18	30″	54	405	16	½″ F	½″ F	2 x ¼″ F	DN150/PN16	6"ANSI150#

[1] = BSP for ISO flanges, NPT for ANSI flanges