GH - 350 Bar Compressed Air Filters

Filtration Performance

Filtration Grade	Filter Type	Particle Reduction (inc water & oil aerosols)	Max Remaining Oil Content at 21°C (70°F)	Filtration Efficiency	Initial Dry Differential Pressure	Initial Saturated Differential Pressure	Change Element Every	Precede with Filtration Grade
V	Dry Particulate	Down to 3 micron	N/A	>90%	<300 mbar (<4.35 psi)	<350 mbar (<5 psi)	12 months or 6000 hours	N/A
ZP	Coalescing & Dry Particulate	Down to 1 micron	0.5 mg/m³ 0.5 ppm(w)	99.925%	<300 mbar (<4.35 psi)	<370 mbar (<5.4 psi)	12 months or 6000 hours	N/A
XP	Coalescing & Dry Particulate	Down to 0.01 micron	0.01 mg/m³ 0.01 ppm(w)	99.9999%	<300 mbar (<4.35 psi)	<400 mbar (<5.8 psi)	12 months or 6000 hours	ZP
A	Oil Vapour Reduction	N/A	0.003 mg/m³ 0.003 ppm(w)	N/A	<300 mbar (<4.35 psi)	N/A	When oil vapour is detected	ZP+XP

Important Note:

Using the same filter housings as their coalescing and dry particulate counterparts, Grade A filter elements differ in that they utilise a bed of activated carbon to adsorb oil vapour. It is important to note, in-line adsorption filter elements have a different life span compared to coalescing and dry particulate filters and require more frequent element changes.

Technical Data

Filtration Grade	Filter Models	Minimum Operating Pressure		Maximum Operating Pressure		Minimum Operating Temperature		Maximum Operating Temperature	
		bar g	psi g	bar g	psi g	°C	°F	°C	°F
V/ZP/XP	GH3350 - GH13350	50	725	350	5076	2	35	80	176
A	GH3350 - GH13350	50	725	350	5076	2	35	50	122

Flow Rates

Model		Pipe Size	L/S	m³/min	m³/hr	cfm	Replacement Element		No.
GH3350	**Grade**	½"	101	6.1	365	215	1050	**Grade**	1
GH5350	**Grade**	½"	139	8.4	501	295	1070	**Grade**	1
GH7350	**Grade**	½"	215	12.9	776	457	1140	**Grade**	1
GH9350	**Grade**	½"	287	17.3	1035	609	2010	**Grade**	1
GH11350	**Grade**	1"	514	30.9	1852	1090	2020	**Grade**	1
GH12350	**Grade**	1½"	782	46.9	2816	1657	2030	**Grade**	1
GH13350	**Grade**	1½"	1184	71.0	4261	2508	2050	**Grade**	1

Stated flows are for operation at 7 bar (g) (102 psi g) with reference to 20°C, 1 bar (a), 0% relative water vapour pressure. For flows at other pressures, apply the correction factors shown below.

Filter Coding Example

Grade	Model
XP	GH3350XP

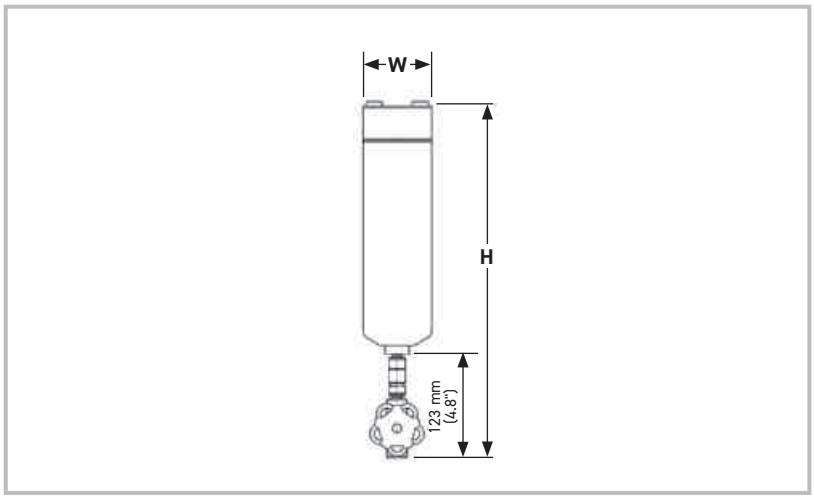
Product Selection & Correction Factors

To correctly select a filter model, the flow rate of the filter must be adjusted for the minimum operating (inlet) pressure at the point of installation.

1. Obtain the minimum operating (inlet) pressure and maximum compressed air flow rate at the inlet of the filter.
2. Select the correction factor for minimum inlet pressure from the CFMIP table (always round down e.g. for 155 bar, use 150 bar correction factor)
3. Calculate the minimum filtration capacity. Minimum Filtration Capacity = Compressed Air Flow Rate x CFMIP
4. Using the minimum filtration capacity, select a filter model from the flow rate tables above (filter selected must have a flow rate equal to or greater than the minimum filtration capacity).

CFMIP - Correction Factor Minimum Inlet Pressure

Minimum Inlet Pressure	bar g	50	60	70	80	90	100	125	150	175	200	225	250	275	300	325	350
	psi g	725	870	1015	1160	1305	1450	1813	2175	2538	2901	3263	3626	3989	4351	4714	5076
Correction Factor		2.65	2.42	2.24	2.09	1.97	1.87	1.67	1.53	1.41	1.32	1.25	1.18	1.13	1.08	1.04	1.00



Weights & Dimensions

Model	Height (H)		Width (W)		Depth (D)		Weight	
	mm	ins	mm	ins	mm	ins	kg	lbs
GH3350	355	14.0	80	3.1	80	3.1	2.8	6.2
GH5350	355	14.0	80	3.1	80	3.1	2.8	6.2
GH7350	420	16.5	80	3.1	80	3.1	3.4	7.5
GH9350	455	17.9	116	4.6	116	4.6	18.2	40.1
GH11350	540	21.3	116	4.6	116	4.6	21.9	48.3
GH12350	655	25.8	125	4.9	125	4.9	28.3	62.4
GH13350	910	35.8	125	4.9	125	4.9	39.2	86.4

Parker Catalogue Numbers

Model	Catalogue Number 3 Micron Pre-Filters	Catalogue Number General Purpose Filters	Catalogue Number High Efficiency Filters	Catalogue Number Oil Vapour Reduction Filters
GH3350	GH3/350V	GH3/350ZP	GH3/350XP	GH3/350A
GH5350	GH5/350V	GH5/350ZP	GH5/350XP	GH5/350A
GH7350	GH7/350V	GH7/350ZP	GH7/350XP	GH7/350A
GH9350	GH9/350V	GH9/350ZP	GH9/350XP	GH9/350A
GH11350	GH11/350V	GH11/350ZP	GH11/350XP	GH11/350A
GH12350	GH12/350V	GH12/350ZP	GH12/350XP	GH12/350A
GH13350	GH13/350V	GH13/350ZP	GH13/350XP	GH13/350A