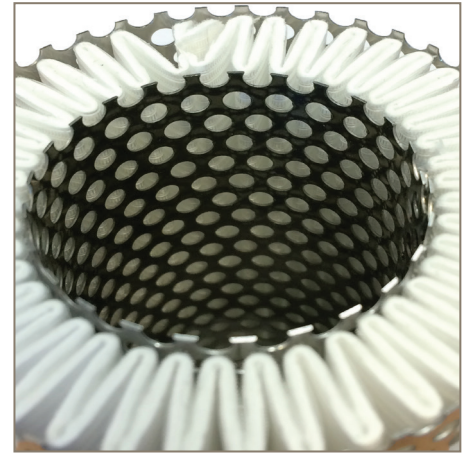


GH Series 350 bar Compressed Air Filters

Grade ZP General Purpose & Grade XP High Efficiency
Coalescing & Dry Particulate Filters

Grade A Oil Vapour Reduction Filter (½" ~ 1½")



High Pressure Compressed Air Filters

Compressed air contains 10 contaminants (emanating from 4 sources) which must be treated and reduced to acceptable levels for the compressed air system to operate safely, efficiently and cost effectively.

Most industrial compressed air applications operate at pressures around 7, 10 or 13 bar g and purification equipment is typically designed around these operating pressures. There are however, applications that require higher operating pressures (which also leads to increased concentration of many contaminants).

Parker domnick hunter GH Series High Pressure Filters

The Parker domnick hunter GH Series High Pressure filter range is available in multiple filtration grades to cover all filtration requirements, including general purpose and high efficiency coalescing grades, general purpose and high efficiency dry particulate grades and an oil vapour reduction grade.



Advantages

- Meets the requirements for delivered air quality shown in all editions of ISO8573-1, the international standard for compressed air quality
- Pleated filter element – Coalescing & Dry Particulate filter media is constructed to reduce air flow velocity and pressure loss whilst providing increased dirt holding capacity, and improved filtration efficiency
- Double O-ring sealing - The first O-ring protects the filter housing thread from contamination, the second prevents the filter housing parts from over tightening
- Filter element is secured by tie-rod to ensure element is held in place, even with pressure pulsations commonly experienced with high pressure piston compressors



ENGINEERING YOUR SUCCESS.

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
ZP	Coalescing & Dry Particulate	Down to 1 micron	0.5 mg/m ³ 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/m ³ 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/m ³ 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	Min Operating Pressure		Max Operating Pressure		Min Operating Temperature		Max 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	m ³ /min	m ³ /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 1 ½"	782	46.9	2816	1657	2030	Grade 1
GH13350	Grade 1 ½"	1184	71.0	4261	2508	2050	Grade 1

Filter coding example

Grade	Model
XP	GH3350XP

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.

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

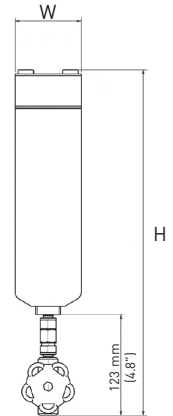
Minimum Inlet Pressure	bar g	50	60	70	80	90	100	125	150	175	200	225	250	275	300	325	350
	psi g	725	870	1015	1160	1305	1450	1813	2175	2538	2901	3263	3626	3989	4351	4714	5076
Correction Factor		2.65	2.42	2.24	2.09	1.97	1.87	1.67	1.53	1.41	1.32	1.25	1.18	1.13	1.08	1.04	1.00

Filtration Tested In Accordance With

Filtration Grade	ZP	XP	A
Filter Type	Coalescing & Dry Particulate	Coalescing & Dry Particulate	Oil Vapour Reduction
Test Methods Used	Not Applicable	Not Applicable	Not Applicable
Inlet Challenge Concentration	Not Applicable	Not Applicable	Not Applicable

Weight & 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



Quality Assurance / IP Rating / Pressure Vessel Approvals

Development / Manufacture	ISO 9001 / ISO 14001
Ingress Protection Rating	Not Applicable
EU	Pressure vessel approved for fluid group 2 in accordance with the Pressure Equipment Directive 2014/68/EU
USA	-
For use with Compressed Air Only	

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