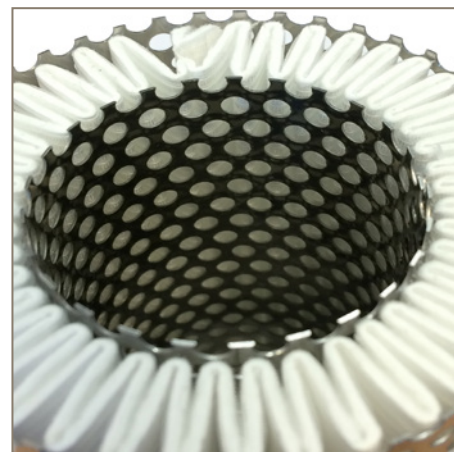


G50 Series

45 bar Compressed Air Filters

Grade ZP General Purpose & Grade XP
High Efficiency Coalescing & Dry Particulate Filters
Grade A Oil Vapour Reduction Filter (¼" - 2")



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 G50 Series Intermediate Pressure Filters

The Parker G50 Series Intermediate 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 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 and dry particulate filter media is constructed to reduce air flow velocity and pressure loss whilst providing increased dirt holding capacity, and improved filtration efficiency.
- Filter element is secured by tie-rod to ensure element is held in place, even with pressure pulsations commonly experienced with piston compressors.



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Filtration Performance

Filtration Grade	Filter Type	Particle Reduction (inc water & oil aerosols)	Max Remaining Oil Content at 21°C (70°F)	Filtration Efficiency	Change Element Every	Precede with Filtration Grade
ZP	Coalescing & Dry Particulate	Down to 1 micron	0.5 mg/m³ 0.5 ppm(w)	99.925%	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%	12 months or 6000 hours	ZP
A	Oil Vapour Reduction	N/A	0.003 mg/m³ 0.003 ppm(w)	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
ZP/XP	G2/50 - G14/50	20	290	45	653	2	35	80	176
A	G2/50 - G14/50	20	290	45	653	2	35	50	122

*Note: recommended max. operating temperature for activated carbon filter is +40°C.

Flow Rates

Model		Pipe Size	l/s	m³/min	m³/hr	cfm	Replacement Element	No.
G2/50	Grade	¼"	19	1.1	68	40	1030 Grade	1
G3/50	Grade	¼"	31	1.9	114	67	1050 Grade	1
G5/50	Grade	⅜"	44	2.6	159	94	1070 Grade	1
G7/50	Grade	½"	63	3.8	227	134	1140 Grade	1
G9/50	Grade	¾"	114	6.7	409	241	2010 Grade	1
G11/50	Grade	1"	189	11.4	682	401	2020 Grade	1
G12/50	Grade	1½"	297	17.8	1068	629	2030 Grade	1
G13/50	Grade	1½"	442	26.5	1591	936	2050 Grade	1
G14/50	Grade	2"	657	39.4	2364	1391	3050 Grade	1

Stated flows are for operation at 45 bar (g) {653 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 38 bar, use 35 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	20	25	30	35	40	45
	psi g	290	362	435	508	580	652
Correction Factor		2.21	1.78	1.50	1.28	1.13	1.00

Filter coding example

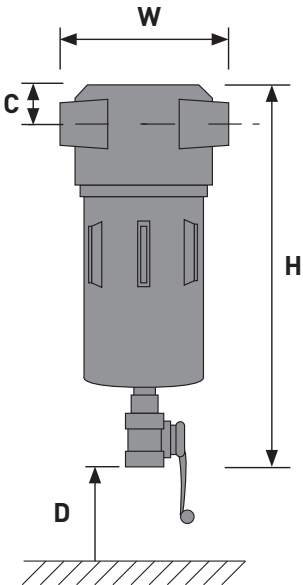
Grade	Model
XP	G2/50XP

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	H		W		D		C		Weight	
	mm	ins	mm	ins	mm	ins	mm	ins	kg	lbs
G2/50	200	7.9	61	2.4	14	0.6	60	2.4	0,8	1.7
G3/50	245	9.6	87	3.4	21	0.8	75	3.0	1,2	2.7
G5/50	245	9.6	87	3.4	21	0.8	90	3.5	1,2	2.7
G7/50	315	12.4	87	3.4	21	0.8	160	6.3	1,4	3.1
G9/50	350	13.8	130	5.1	43	1.7	135	5.3	4,1	9.1
G11/50	450	17.7	130	5.1	43	1.7	235	9.3	4,9	10.9
G12/50	525	20.7	130	5.1	43	1.7	335	13.2	5,0	11.1
G13/50	755	29.7	130	5.1	43	1.7	525	20.7	6,6	14.6
G14/50	735	28.9	164	6.5	48	1.9	520	20.5	8,9	19.7



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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US Product Information Centre

Toll-free number: 1-800-27 27 537

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