



Balma



FULL FILTER RANGE

Resistent, Solid,
Simple and Smart:
advanced reliability
in compressed air.

A Star in Air Compressors 

CUSTOMER BENEFITS



BALMA FILTERS: YOUR AIR DISTRIBUTION NETWORK HAS NEVER BEEN SO HEALTHY

Every application in compressed air should include one or more filtration stages in order to prevent the saturation of elements, keep your air quality and avoid pressure drops. Protecting your air distribution with high quality filters ensures a longer lifetime to your entire installation, including downstream dryers, air pipes and pneumatic tools.

QUALITY AIR SOLUTIONS

SAVE MONEY

- Great serviceability
- Ease of use and installation
- Less potential downtime and longer lifetime of your installation

IMPROVE YOUR AIR QUALITY

- Optional pressure drop device (indicator or gauge)
- Easy cartridge replacement
- Passe-par-tout for every compressed air technology
- Easy integration with preset system

LIFT UP YOUR AIR QUALITY

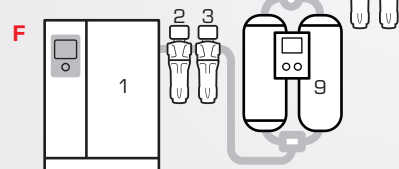
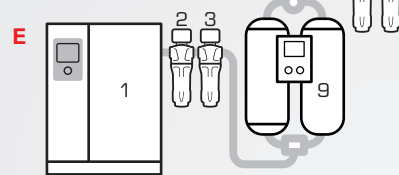
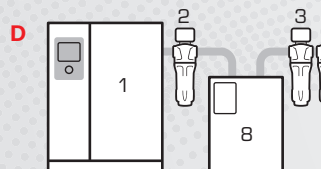
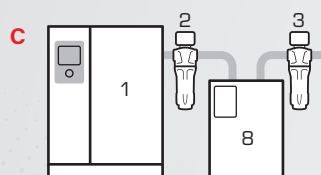
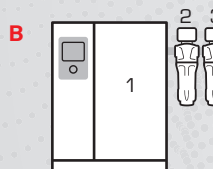
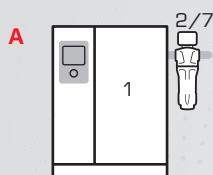
- Optimize your compressed air workflow
- Refine final product quality
- Forget oil, dust and other contaminants

STOP GAMBLING ON PRODUCT QUALITY: SECURE YOUR BUSINESS! IMPURITIES IN THE COMPRESSED AIR ARE COMMON CAUSE OF:

- Deterioration of the final product quality
- Reduction in the efficiency and life span of the pneumatic devices
- Damage to the distribution lines increasing potential downtime
- Considerable increase in maintenance costs
- Limitations to the reliability of the production process and all its components
- Reduction of your overall profitability



Typical installation



- Compressor with after-cooler 1
- G filter 2
- C filter 3
- V filter 4
- S filter 5
- D filter 6
- P filter 7
- Refrigerant dryer 8
- Adsorption dryer 9

A receiver is always suggested

A General purpose protection air purity to ISO 8573-1:2010

G filter [3 : - : 3]
P filter [4 : - : 3]

C High quality air with reduced dew point air purity to ISO 8573-1:2010

[1 : 4 : 2]

E High quality air with extremely low dew point air purity to ISO 8573-1:2010

[2 : 2 : 1]

B General purpose protection and reduced oil concentration air purity to ISO 8573-1:2010

[1 : - : 2]

D High quality air with reduced dew point and oil concentration air purity to ISO 8573-1:2010

[1 : 4 : 1]

F High quality air with extremely low dew point air purity to ISO 8573-1:2010

[1 : 2 : 1]

Filtration Grades



	P	G	S	C	D	V
Particle removal (micron) ■	5	-	1	-	0.01	-
Outlet oil aerosol concentration (mg/m ³) ■	1	0.3	-	0.01	-	0.003
Total mass efficiency (%)	>90	>99.25	-	>99.9	-	-
Quality class of air at outlet (particles / oil) ▲	4 / 3	- / 3	3 / -	- / 2	1 / -	- / 1
Initial pressure drop over filter in dry applications (bar)	0.05	0.055	0.055	0.085	0.085	0.115
Initial pressure drop over filter in wet applications (bar) ✱	0.08	0.125	-	0.125	-	-

CORRECTION FACTORS

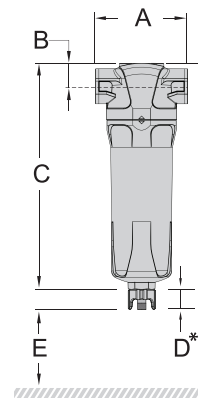
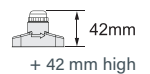
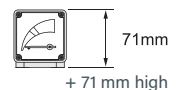
For maximum flow rate: multiply model flow rate by the correction factor corresponding to the minimum operating pressure

Operating pressure barg (psig)	4 (58)	5 (72)	6 (87)	7 (100)	8 (115)	10 (145)	12 (174)	14 (203)	16 (232)	20 (290)
Correction factor	0,76	0,84	0,92	1,00	1,07	1,19	1,31	1,41	1,51	1,6

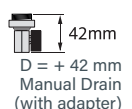
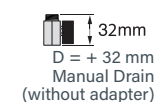
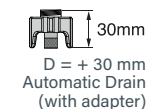
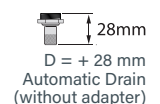
Technical specifications

	Filter Size	Flow Rate / Size ●			Conn. Size	Dimensions (mm)				Weight (KG) Approx.	Element Model
		m ³ /h	lt/min.	SCFM		A	B	C	E		
Coalescing & Particulate	1	10	168	6	(G1/8)	50	17	157	60	0,25	F (Grade) 1
	2	25	414	15	(G1/4)	50	17	157	60	0,25	F (Grade) 2
	3	42	702	25	(G1/4)	70	24	231	70	0,6	F (Grade) 3
	4	54	900	32	(G3/8)	70	24	231	70	0,6	F (Grade) 4
	5	85	1.416	50	(G1/2)	70	24	231	70	0,6	F (Grade) 5
	6	119	1.986	70	(G1/2)	127	32	285	80	1,7	F (Grade) 6
	7	144	2.400	85	(G3/4)	127	32	285	80	1,7	F (Grade) 7
	8	178	2.964	105	(G1)	127	32	285	80	1,7	F (Grade) 8
	9	212	3.534	125	(G3/4)	127	32	371	80	2	F (Grade) 9
	10	297	4.950	175	(G1)	127	32	371	80	2	F (Grade) 10
	11	476	7.932	280	(G1 1/4)	140	40	475	80	3	F (Grade) 11
	12	545	9.084	321	(G1 1/2)	140	40	475	80	3	F (Grade) 12
	13	765	12.750	450	(G2)	170	53	508	100	4,9	F (Grade) 13
	14	1189	19.818	700	(G2)	170	53	708	100	5,5	F (Grade) 14
	15	1444	24.066	850	(G2 1/2)	220	70	736	100	10,5	F (Grade) 15
	16	1529	25.482	900	(G3)	220	70	736	100	10,5	F (Grade) 16
	17	2125	35.418	1250	(G3)	220	70	857	100	11,5	F (Grade) 17
	18	2550	42.498	1500	(G3)	220	70	1005	100	12,5	F (Grade) 18
Water Separators	1	10	168	6	(G1/8)	50	17	157	60	0,25	NA
	2	25	414	15	(G1/4)	50	17	157	60	0,25	NA
	3	42	702	25	(G1/4)	70	24	231	70	0,6	NA
	4	59	984	35	(G3/8)	70	24	231	70	0,6	NA
	5	85	1.416	50	(G1/2)	70	24	231	70	0,6	NA
	6	119	1.986	70	(G1/2)	127	32	285	80	1,7	NA
	7	212	3.534	125	(G3/4)	127	32	285	80	1,7	NA
	8	297	4.950	175	(G1)	127	32	285	80	1,7	NA
	9	476	7.932	280	(G1 1/4)	140	40	475	80	3	NA
	10	545	9.084	321	(G1 1/2)	140	40	475	80	3	NA
	11	1189	19.818	700	(G2)	170	53	508	100	4,9	NA
	12	1444	24.066	850	(G2 1/2)	220	70	413	100	8	NA
	13	2550	42.498	1500	(G3)	220	70	413	100	8	NA

DIFFERENTIAL PRESSURE EQUIPMENT



*DRAINS



■ Referred to an absolute pressure of 1 bar and temperature of 20 °C

▲ According to ISO 8573-1:2010 in a typical installation

✱ According to ISO 12500-1 at oil concentration upstream of the filter of 10 mg/m³ (Grade G = 40 mg/m³)

● At reference conditions: unless otherwise stated and according to ISO 1217, third edition: annex C

ORIGINAL PARTS YOUR QUALITY ASSURANCE.

The 'original part' identification confirms that these components passed our strict test criteria. All parts are designed to match the compressor and are approved for use on the specified compressor. They have been thoroughly tested to obtain the highest level of protection, extending the compressors' lifetime and keeping the cost of ownership to an absolute minimum. No compromises are made on reliability. The use of 'original part' certified quality components helps ensure reliable operation and will not impact the validity of your warranty, unlike other parts. Look for your quality assurance.



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