

High Flow Compressed Gas Filters

Parker Compressed Gas Filters

Parker high flow rate compressed gas filters offer exceptionally high efficiency coalescing filtration of compressed gas at high flow rates. Specifically designed to remove suspended liquids and dirt from pipeline natural gas, the housings are CE PED stamped to 100 barg. Equipped with Parker Finite Filter Cartridges, the filters are rated up to 99.99% retention of 0.01 micron and essentially 100% retention of 1 micron liquid droplets and particles. Since the coalesced liquid drains continuously from the filter cartridges as rapidly as it is collected, the filters have an unlimited capacity for liquid removal.

Series ZA are available with inlet and outlet ports covering the range from DN50 to DN200 pipe sizes. The standard carbon steel units have pressure ratings from 16 - 100 barg.

Each ZA assembly is equipped with a manual needle valve, differential pressure indicator (optional), and a set of filter cartridges.

- Pressure rating 16 or 100 barg
- Flanges to DN200
- 100% retention of 1 micron droplets and liquids



ZA-Series (100 barg) Flow Rates (Nm³/hr) of air at 20°C

Filter Housing Model	Media Grade	2.75 barg	7 barg	14 barg	28 barg	41 barg	69 barg	100 barg
ZA*14	6C	429	915	1716	3317	17414	8006	11552
	10C	715	1526	2861	5532	29042	13353	19266
	3P	715	1526	2861	5532	29042	13353	19266
	A	429	915	1716	3317	17414	8006	11552
	100WS	715	1526	2861	5532	29042	13353	19266
	7CVP	715	1526	2861	5532	29042	13353	19266
ZA*17	6C	642	1370	2569	4966	26073	11988	17296
	10C	1070	2283	4281	8276	43448	19976	28823
	3P	1070	2283	4281	8276	43448	19976	28823
	A	642	1370	2569	4966	26073	11988	17296
	100WS	1070	2283	4281	8276	43448	19976	28823
	7CVP	1070	2283	4281	8276	43448	19976	28823
ZA*18	6C	1133	2416	4530	8758	45980	21140	30502
	10C	1888	4027	7551	14598	76639	35236	50841
	3P	1888	4027	7551	14598	76639	35236	50841
	A	1133	2416	4530	8758	45980	21140	30502
	100WS	1888	4027	7551	14598	76639	35236	50841
	7CVP	1888	4027	7551	14598	76639	35236	50841
ZA*19	6C	1133	2416	4530	8758	45980	21140	30502
	10C	1888	4027	7551	14598	76639	35236	50841
	3P	1888	4027	7551	14598	76639	35236	50841
	A	1133	2416	4530	8758	45980	21140	30502
	100WS	1888	4027	7551	14598	76639	35236	50841
	7CVP	1888	4027	7551	14598	76639	35236	50841
ZA*20	6C	1284	2739	5136	9929	52127	23966	34580
	10C	2140	4566	8561	16552	86897	39953	57646
	3P	2140	4566	8561	16552	86897	39953	57646
	A	1284	2739	5136	9929	52127	23966	34580
	100WS	2140	4566	8561	16552	86897	39953	57646
	7CVP	2140	4566	8561	16552	86897	39953	57646
ZA*30	6C	1926	4109	7704	14895	78199	35954	51876
	10C	3210	6848	12840	24824	130326	59920	86456
	3P	3210	6848	12840	24824	130326	59920	86456
	A	1926	4109	7704	14895	78199	35954	51876
	100WS	3210	6848	12840	24824	130326	59920	86456
	7CVP	3210	6848	12840	24824	130326	59920	86456
ZA*40	6C	2568	5479	10273	19861	104272	47941	69172
	10C	4280	9131	17121	33100	173774	79896	115279
	3P	4280	9131	17121	33100	173774	79896	115279
	A	2568	5479	10273	19861	104272	47941	69172
	100WS	4280	9131	17121	33100	173774	79896	115279
	7CVP	4280	9131	17121	33100	173774	79896	115279
ZA*60	6C	3852	8218	15409	29790	156399	71908	103752
	10C	6420	13697	25682	49652	260671	119849	172925
	3P	6420	13697	25682	49652	260671	119849	172925
	A	3852	8218	15409	29790	156399	71908	103752
	100WS	6420	13697	25682	49652	260671	119849	172925
	7CVP	6420	13697	25682	49652	260671	119849	172925
ZA*80	6C	5163	10957	20544	39719	208525	95874	138332
	10C	8560	18262	34241	66200	347549	159793	230558
	3P	8560	18262	34241	66200	347549	159793	230558
	A	5163	10957	20544	39719	208525	95874	138332
	100WS	8560	18262	34241	66200	347549	159793	230558
	7CVP	8560	18262	34241	66200	347549	159793	230558
ZA*100	6C	6420	13697	25682	49652	260671	119849	172925
	10C	10701	22828	42803	82752	434445	199745	288204
	3P	10701	22828	42803	82752	434445	199745	288204
	A	6420	13697	25682	49652	260671	119849	172925
	100WS	10701	22828	42803	82752	434445	199745	288204
	7CVP	10701	22828	42803	82752	434445	199745	288204

Principal Specifications:

Model Number	Port Size	Max Pressure	Max. Temp for each Element	Materials of Construction			Seals	Dimensions	
				Head	Internals	Bowl		Length	Width
ZAS14	DN50	16/100 bar	120°C (C, 3P, 100WS)	Carbon Steel	Carbon Steel	Carbon Steel	Metal-Graphite	931mm	380mm
ZAE14	DN50	16/100 bar	79°C (A)	Stainless Steel	Stainless Steel	Stainless Steel	Metal-Graphite	931mm	380mm
ZAS17	DN65	16/100 bar	120°C (C, 3P, 100WS)	Carbon Steel	Carbon Steel	Carbon Steel	Metal-Graphite	1180mm	380mm
ZAE17	DN65	16/100 bar	79°C (A)	Stainless Steel	Stainless Steel	Stainless Steel	Metal-Graphite	1180mm	380mm
ZAS18	DN80	16/100 bar	120°C (C, 3P, 100WS)	Carbon Steel	Carbon Steel	Carbon Steel	Metal-Graphite	1180mm	420mm
ZAE18	DN80	16/100 bar	79°C (A)	Stainless Steel	Stainless Steel	Stainless Steel	Metal-Graphite	1180mm	420mm
ZAS19	DN80	16/100 bar	120°C (C, 3P, 100WS)	Carbon Steel	Carbon Steel	Carbon Steel	Metal-Graphite	1320mm	440mm
ZAE19	DN80	16/100 bar	79°C (A)	Stainless Steel	Stainless Steel	Stainless Steel	Metal-Graphite	1320mm	440mm
ZAS20	DN100	16/100 bar	120°C (C, 3P, 100WS)	Carbon Steel	Carbon Steel	Carbon Steel	Metal-Graphite	1440mm	500mm
ZAE20	DN100	16/100 bar	79°C (A)	Stainless Steel	Stainless Steel	Stainless Steel	Metal-Graphite	1440mm	500mm
ZAS30	DN100	16/100 bar	120°C (C, 3P, 100WS)	Carbon Steel	Carbon Steel	Carbon Steel	Metal-Graphite	1440mm	500mm
ZAE30	DN100	16/100 bar	79°C (A)	Stainless Steel	Stainless Steel	Stainless Steel	Metal-Graphite	1440mm	500mm
ZAS40	DN150	16/100 bar	120°C (C, 3P, 100WS)	Carbon Steel	Carbon Steel	Carbon Steel	Metal-Graphite	1590mm	640mm
ZAE40	DN150	16/100 bar	79°C (A)	Stainless Steel	Stainless Steel	Stainless Steel	Metal-Graphite	1590mm	640mm
ZAS60	DN150	16/100 bar	120°C (C, 3P, 100WS)	Carbon Steel	Carbon Steel	Carbon Steel	Metal-Graphite	1650mm	790mm
ZAE60	DN150	16/100 bar	79°C (A)	Stainless Steel	Stainless Steel	Stainless Steel	Metal-Graphite	1650mm	790mm
ZAS80	DN200	16/100 bar	120°C (C, 3P, 100WS)	Carbon Steel	Carbon Steel	Carbon Steel	Metal-Graphite	1730mm	790mm
ZAE80	DN200	16/100 bar	79°C (A)	Stainless Steel	Stainless Steel	Stainless Steel	Metal-Graphite	1730mm	790mm
ZAS100	DN200	16/100 bar	120°C (C, 3P, 100WS)	Carbon Steel	Carbon Steel	Carbon Steel	Metal-Graphite	1780mm	840mm
ZAE100	DN200	16/100 bar	79°C (A)	Stainless Steel	Stainless Steel	Stainless Steel	Metal-Graphite	1780mm	840mm

Ordering Information

Series Name	Material	Port size	Pressure rating	Element Grade	Options	ATEX
ZA	S - carbon steel	DN50 = 14	016 (bar)	6C	G = DP gauge	ATEX
	E - stainless steel	DN65 = 17	025 (bar)	10C	blank = No gauge	ATEX = approved
		DN80 = 18	040 (bar)	3P		No ATEX
		DN80 = 19	064 (bar)	A	blank = approval	
		DN100 = 20	100 (bar)	100WS		
		DN100 = 30		7CVP		
		DN150 = 40				
		DN150 = 60				
		DN200 = 80				
		DN200 = 100				

Examples: ZAS30-100-6C-G ZAE14-100-100WS ZAS18-016-3P-G ZAE14-016-10C-G-ATEX

Housing	Element Grade and Type	Element size	Number Elements
ZA*14	6C, 10C, 3P, A, 100WS, 7CVP	Z27-200	1
ZA*17	6C, 10C, 3P, A, 100WS, 7CVP	Z27-298	1
ZA*18	6C, 10C, 3P, A, 100WS, 7CVP	Z46-239	1
ZA*19	6C, 10C, 3P, A, 100WS, 7CVP	Z50-298	1
ZA*20	6C, 10C, 3P, A, 100WS, 7CVP	Z27-298	2
ZA*30	6C, 10C, 3P, A, 100WS, 7CVP	Z27-298	3
ZA*40	6C, 10C, 3P, A, 100WS, 7CVP	Z27-298	4
ZA*60	6C, 10C, 3P, A, 100WS, 7CVP	Z27-298	6
ZA*80	6C, 10C, 3P, A, 100WS, 7CVP	Z27-298	8
ZA*100	6C, 10C, 3P, A, 100WS, 7CVP	Z27-298	10

Examples: ZAS18 housing with grade 10C element: replacement part number = 10CZ46-239

Flow rate conversion factors for other gases

The flow rates in the table are stated for compressed air, for flow rates of other gases please divide the entries in the table by the conversion factors given below.

Gas	Natural Gas	Hydrogen	Carbon Dioxide	Ammonia
Conversion factor	0.8158	0.2638	1.2324	0.772

Note: For filtration of different gases please contact Parker.



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Map and Directions to Prosep Filters Limited



Leave M62 at Junction 24.

At roundabout adjacent to Cedar Court Hotel take 2nd exit onto dual carriageway (A629), signposted Halifax.

Take 1st exit slip road.

At roundabout at end of sliproad, take 3rd exit off.

This is the entrance to Lowfields Business Park.

Proceed straight over 1st roundabout.

At next roundabout take 2nd exit onto River Bank Way - Prosep Filters can be found on the left after the S-bend.

[Link to Google Maps](#)