



# Filtration for Vacuum Pumps

Catalogue PMF002GBI



# Parker Filtration



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# Protecting Vacuum Pumps and Protecting from Vacuum Pump Exhausts

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<b>Parker Filtration</b> .....	2
<b>Vacuum Pump Inlet Filters for Vacuum Service to 10<sup>-6</sup> Torr</b> .....	4
<b>Vacuum Pump Inlet Filters for Vacuum Service to 2 Torr</b> .....	5
<b>Vacuum Pump Exhaust Filters for Non-Hazardous/Non-Corrosive Applications</b> .....	6
<b>Vacuum Pump Exhaust Filters for Hazardous/Corrosive Applications</b> .....	8

## Recommended Exhaust Filters for Vacuum Pumps

Alcatel Pumps .....	9	Quincy Pumps .....	15
Balzars Pumps .....	9	Rietschle Pumps .....	15
Beach-Russ Pumps .....	10	RO-FLO Pumps (Allis-Chalmers) .....	16
Busch Pumps .....	10	Sargent-Welch Pumps .....	16
Central Scientific Pumps (Cenco, Boekel, HYVAC) .....	11	Stokes Pumps .....	17
Edwards High Vacuum Pumps .....	11	Ulvac Pumps .....	17
Gast Pumps .....	12	Varian Pumps .....	17
Hitachi .....	12	<b>Pump to Filter Adaptors</b> .....	18
Ingersoll-Rand Pumps .....	12	<b>Filter and Dryers for OEM Solutions</b> .....	19
ITT Pneumotive (Leiman Brothers) .....	13		
Kinney Pumps .....	13		
Lammert Pumps .....	13		
Leybold Heraeus .....	14		
Marvac Pumps .....	14		
Maxima Pumps (Fisher Scientific) .....	14		
Precision Scientific Pumps .....	15		



# Vacuum Pump Inlet Filters for Vacuum Service to 10<sup>-6</sup> Torr

Protect vacuum pumps from damage by solids and liquids

Prevent loss of valuable or hazardous materials

Prevent oil backstreaming

## Model CF-0112 and CF-0118 for Vacuum Service to 10<sup>-6</sup> Torr

Stainless steel housings with welded KF flange inlet and outlet ports and no drain ports. They are designed to be used primarily with the Grade 102 adsorbent cartridges for prevention of oil backstreaming (see cartridge selection chart below). They may also be used with Grade 30 cartridges for removal of high concentrations of solids, but the absence of drain ports precludes the use of CF housings for liquid removal in vacuum applications.



## Filter Selection Chart

Grade 30 Cartridges	For removal of relatively high concentrations of solids
<b>Efficiency:</b>	90% at 0.1 micron
<b>Loss in Pumping Speed:</b>	9% at maximum flow rate
<b>Materials of Construction:</b>	Polypropylene cartridge, EPR seals
<b>Maximum Temperature:</b>	82°C (180°F)
Grade 102 Cartridges	For prevention of oil backstreaming and filtration of relatively low concentrations of solids
<b>Efficiency for Preventing Oil Backstreaming:</b>	99.99%
<b>Life:</b>	Approximately 1,000 hours at 10 microns vacuum
<b>Efficiency for Solids Filtration:</b>	99.99% at 0.1 micron
<b>Materials of Construction:</b>	Molecular Sieve Type 4A adsorbent, EPR seals
<b>Maximum Temperature:</b>	38°C (100°F)

## Principal Specifications

Model	CF-0112	CF-0118
<b>Recommended Vacuum Service</b>	10 <sup>-6</sup> Torr	10 <sup>-6</sup> Torr
<b>Max. Flow Rating of Vacuum Pump</b>	5 m <sup>3</sup> /hr (3 CFM)	15 m <sup>3</sup> /hr (9 CFM)
<b>Inlet and Outlet Ports</b>	KF-25	KF-25
<b>Materials of Construction:</b>		
<b>Head</b>	304 SS	304 SS
<b>Bowl</b>	304 SS	304 SS
<b>Internals</b>	304 SS	304 SS
<b>Seals</b>	None	None
<b>Maximum Temperature</b>	82°C (180°F) <sup>(1)</sup>	82°C (180°F) <sup>(1)</sup>
<b>Shipping Weight</b>	0.2 kg	0.4 kg
<b>Dimensions</b>	70 x 110 mm	100 x 150 mm

### Notes:

1 Maximum temperature grade 102 Cartridge is 38°C (100°F).      2 Filter Cartridge is permanently sealed into housing. The entire unit is disposable.

## Ordering Information

Assembly with Grade 30 Particulate Filter	Assembly with Grade 102 Backstreaming Filter
CF-0112-30	CF-0112-102
CF-0118-30	CF-0118-102

# Vacuum Pump Inlet Filters for Vacuum Service to 2 Torr

Protect vacuum pumps from damage by solids and liquids

Prevent loss of valuable or hazardous materials

Prevent oil backstreaming

**Models CV-0112-30 and CV-0118-30 for hazardous/corrosive applications and low flow applications**

Stainless steel housings with NPT inlet, outlet and drain ports. Used only with Grade 30 filter cartridges.

**Model 18/18-30 for non-hazardous/non-corrosive applications and higher flow applications**

Steel housing with NPT inlet, outlet and drain ports. Used only with Grade 30 filter cartridges.



## Filter Selection Chart

Grade 30 Cartridges	For removal of relatively high concentrations of solids and liquids
<b>Efficiency:</b>	90% at 0.1 micron
<b>Loss in Pumping Speed:</b>	9% at maximum flow rate
<b>Materials of Construction:</b>	Polypropylene cartridge, EPR seals
<b>Maximum Temperature:</b>	82°C (180°F)

## Principal Specifications

Model	CV-0112-30	CV-0118-30	18/18-30
<b>Recommended Vacuum Service</b>	2 Torr	2 Torr	2 Torr
<b>Max. Flow Rating of Vacuum Pump</b>	5 m <sup>3</sup> /hr (3 CFM)	15 m <sup>3</sup> /hr (9 CFM)	15 m <sup>3</sup> /hr (9CFM) <sup>(1)</sup>
<b>Inlet and Outlet Ports</b>	1/2" NPT	3/4" NPT	3/4" NPT
<b>Drain Port <sup>(2)</sup></b>	1/8" NPT	1/8" NPT	1/8" NPT
<b>Materials of Construction</b>			
<b>Head</b>	304 SS	304 SS	Steel
<b>Bowl</b>	304 SS	304 SS	Steel
<b>Internals</b>	304 SS	304 SS	Steel
<b>Seals</b>	None	None	None
<b>Maximum Temperature</b>	82°C (180°F)	82°C (180°F)	82°C (180°F)
<b>Shipping Weight</b>	0.2 kg	0.4 kg	1 kg
<b>Dimensions</b>	70 x 110 mm	100 x 150 mm	100 x 140 mm

## Ordering Information

Assembly with Grade 30 Particulate Filter
CV-0112-30
CV-0118-30
18/18-30

### Notes:

1 For higher flow capacity inlet filters, please consult factory.

2 Drain port must be downward for liquid removal.

3 Filter cartridge is permanently sealed into housing. The entire unit is disposable.



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# Vacuum Pump Exhaust Filters for Non-Hazardous/Non-Corrosive Applications

**Eliminate 99.99% oil mist and smoke from vacuum pump exhaust**

**Prevent oil accumulation in ductwork**

**Recover expensive lubricating oils, and automatically return filtered oil to pump**

**Eliminate potential health and safety violations**

## Balston Vacuum Pump Exhaust Filters

Balston Vacuum Pump Exhaust Filters remove all visible oil mist and smoke from vacuum pump exhaust, even when it is saturated with oil. The high efficiency filter cartridge continuously drains the collected liquid, allowing the user to recover expensive lubricating fluid. Filters are available for pumps with flow ratings to 1,444 m<sup>3</sup>/hr (850 CFM).

### How To Select The Filter

For most applications, simply select the filter assembly which has a flow capacity equal to or greater than the vacuum pump exhaust flow output (see chart below). The filter assemblies are shipped with filter cartridges, pressure gauge (34 m<sup>3</sup>/hr and larger), and final filter pad. Optional adaptors are available for KF and NW connections (see Pg 18).



### Filter Selection Chart (for non-hazardous/non-corrosive applications)

Max. Pump Flow Rate (m <sup>3</sup> /hr)	Recommended Filter Model Number
5	9955-12-371H, 9956-12-371H
15	18/18-371H
34	AR-0316-371H
73	AR-0335-371H
170	AR-0735-371H
340	AR-0780-371H
510	AR-1280-371H
765	AR-1680-371H
1,444	AR-3080-371H

**Note:** The suffix "30" indicates the filter cartridge grade. For removal of high concentrations of solids and liquids use "30" suffix. For prevention of oil backstreaming and filtration of low solids concentrations, use "102" suffix.

# Vacuum Pump Exhaust Filters for Non-Hazardous/Non-Corrosive Applications

## Principal Specifications

	9955-12-371H	9956-12-371H	18/18-371H	AR-0316-371H	AR-0335-371H
<b>Port Size</b>	1/2" NPT	KF-16	3/4" NPT	1" NPT	1 1/2" NPT
<b>Max. Flow Rate</b>	5 m <sup>3</sup> /hr (3 CFM)	5 m <sup>3</sup> /hr (3 CFM)	15 m <sup>3</sup> /hr (9 CFM)	34 m <sup>3</sup> /hr (43 CFM)	73 m <sup>3</sup> /hr (43 CFM)
<b>Materials of Construction:</b>					
<b>Head</b>				Steel	Steel
<b>Bowl</b>	Nylon	Nylon	Steel	Steel	Steel
<b>Seals</b>	None	None	Viton	Buna/Neo	Buna/Neo
<b>Max. Temp.</b>	121°C (250°F)	121°C (250°F)	204°C (400°F)	204°C (400°F)	204°C (400°F)
<b>Max. Press.</b>	1 bar(g)	1 bar(g)	1 bar(g)	1 bar(g)	1 bar(g)
<b>Shipping Wt.</b>	0.1 kg	0.1 kg	0.4 kg	4 kg	5 kg
<b>Dimensions</b>	50 x 94 mm	50 x 94 mm	89 x 137 mm	188 x 224 mm	188 x 381 mm

	AR-0735-371H	AR-0780-371H	AR-1280-371H	AR-1680-371H	AR-3080-371H
<b>Port Size</b>	3" NPT	3" NPT	4" Flg. <sup>(1)</sup>	4" Flg. <sup>(1)</sup>	6" Flg. <sup>(1)</sup>
<b>Max. Flow Rate</b>	170 m <sup>3</sup> /hr (100 CFM)	340 m <sup>3</sup> /hr (200 CFM)	510 m <sup>3</sup> /hr (300 CFM)	765 m <sup>3</sup> /hr (450 CFM)	1,444 m <sup>3</sup> /hr (850 CFM)
<b>Materials of Construction:</b>					
<b>Head</b>	Steel	Steel	Steel	Steel	Steel
<b>Bowl</b>	Steel	Steel	Steel	Steel	Steel
<b>Seals</b>	Buna/Neo	Buna/Neo	Buna/Neo	Buna/Neo	Buna/Neo
<b>Max. Temp.</b>	204°C (400°F)	204°C (400°F)	204°C (400°F)	204°C (400°F)	204°C (400°F)
<b>Max. Press.</b>	1 bar(g)	1 bar(g)	1 bar(g)	1 bar(g)	1 bar(g)
<b>Shipping Wt.</b>	8 kg	10 kg	41 kg	45 kg	68kg
<b>Dimensions</b>	254 x 457 mm	254 x 711 mm	483 x 1,092 mm <sup>(5)</sup>	483 x 1,092 mm <sup>(5)</sup>	584 x 1,092 mm <sup>(5)</sup>

## Ordering Information

Model	No. of Filter Cartridges Required	Replacement Filter Cartridges			Cover <sup>(2)</sup> (Optional)	No. Pressure Relief Retainers #2022
		Box of 3	Box of 7	Box of 10		
9955-12-371H <sup>(3)</sup>		3/9955-12-371H		9955-12-371H		<sup>(4)</sup>
9956-12-371H <sup>(3)</sup>		3/9956-12-371H		9956-12-371H		<sup>(4)</sup>
18/18-371H <sup>(3)</sup>						<sup>(4)</sup>
AR-0316-371H	3	3/200-16-371H			19158	1
AR-0335-371H	3	3/200-35-371H			19158	1
AR-0735-371H	7		7/200-35-371H		19206	2
AR-0780-371H	7		7/200-80-371H		19206	2
AR-1280-371H	12			200-80-371H	Included	4
AR-1680-371H	16			200-80-371H	Included	4
AR-3080-371H	30			200-80-371H	Included	6

## Optional Accessories

#20222 Pressure Relief Filter Cartridge Retainer, 4-7 psig.  
 #20222 Pressure Relief Filter Cartridge Retainer, 2-5 psi.  
 #20217 Pressure Relief Valve, 3-7 psig, 1/4" NPT male fitting.  
 #11010 Pressure Gauge, 0-15 psig, 1/4" male fitting (incl. on Type AR Filter Assemblies)

### Vacuum pump-to-filter adaptors

#19291 Stand for AR-1680-371H, #19290 Stand for AR-3080-371H.  
 #19202 Weather Cap for AR-0735-371H, AR-0780-371H.

### Notes:

- ANSI 150 lb. hole pattern.
- Cover does not provide leak tight seal.
- Filter cartridge is permanently sealed into housing. The entire unit is disposable.
- Pressure relief filter tube retainer not available in these models.
- Height dimension represents filter housing alone. When assembled with a stand, the height is adjustable from 1,170 to 1,420 mm.



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# Vacuum Pump Exhaust Filters for Hazardous/Corrosive Applications

**Eliminate 99.9% oil mist and smoke from vacuum pump exhaust**

**Prevent oil accumulation in ductwork**

**Recover expensive lubricating oils, and automatically return filtered oil to pump**

**Eliminate potential OSHA and EPA violations**

## Parker Vacuum Pump Exhaust Filters

Parker Vacuum Pump Exhaust Filters remove all visible oil mist and smoke from vacuum pump exhaust, even when it is saturated with oil. The high efficiency filter cartridge continuously drains the collected liquid, allowing the user to recover expensive lubricating fluid. Filters are available for pumps with flow ratings ranging from 5 to 340 m<sup>3</sup>/hr (200 CFM).

## How To Select The Filter

For most applications, simply select the filter assembly which has a flow capacity equal to or greater than the vacuum pump exhaust flow output (see chart below). The filter assemblies are shipped with filter cartridges, pressure gauge (34 m<sup>3</sup>/hr and larger), and final filter pad. Optional adaptors are available for KF and NW connections (see page 18).



## Filter Selection Chart (for hazardous/corrosive applications)

Max. Pump Rate (m <sup>3</sup> /hr)	Recommended Flow Filter Model Number
5	CV-0112-371H
15	CV-0118-371H
34	ACV-0135-371H
170	ACV-0735-371H
340	ACV-0780-371H

## Principal Specifications

Model	CV-0112-371H	CV-0118-371H	ACV-0135-371H	ACV-0735-371H	ACV-0780-371H
<b>Port Size</b>	1/2" NPT	3/4" NPT	1" NPT	2" NPT	2" NPT
<b>Max. Flow Rate</b>	5 m <sup>3</sup> /hr (3 CFM)	15 m <sup>3</sup> /hr (9 CFM)	34 m <sup>3</sup> /hr (20 CFM)	170 m <sup>3</sup> /hr (100 CFM)	340 m <sup>3</sup> /hr (200 CFM)
<b>Materials of Construction</b>					
<b>Head</b>			304 SS	304 SS	304 SS
<b>Bowl</b>	304 SS	304 SS	304 SS	304 SS	304 SS
<b>Internals</b>	304 SS	304 SS	304 SS	304 SS	304 SS
<b>Seals</b>	None	None	Viton	Viton	Viton
<b>Maximum Temperature</b>	121°C (250°F)	121°C (250°F)	121°C (250°F)	121°C (250°F)	121°C (250°F)
<b>Maximum Pressure</b>	1 bar(g)	1 bar(g)	1 bar(g)	1 bar(g)	1 bar(g)
<b>Shipping Weight</b>	0.2 kg	0.4 kg	4.3 kg	25 kg	32 kg
<b>Dimensions</b>	70 x 110 mm	100 x 130 mm	100 x 580 mm	250 x 740 mm	250 x 960 mm

## Ordering Information

Model	CV-0112-371H <sup>(1)</sup>	CV-0118-371H <sup>(1)</sup>	ACV-0135-371H	ACV-0735-371H	ACV-0780-371H
<b>Number of Filter Cartridges Required</b>			1	7	7
<b>Replacement Filter Cartridges:</b>					
<b>Box of 3</b>			3/200-35-371H		
<b>Box of 7</b>				7/200-35-371H	7/200-80-371H
<b>Box of 10</b>			200-35-371H		
<b>Number of Pressure Relief Retainers #20222</b>			1	2	2
<b>Optional Accessories:</b>	#11015 Back Pressure Gauge, Stainless Steel, 0-15 psi rating, 1/4" NPT fitting.				
<b>Vacuum Pump-to-Filter Adaptors:</b>	Please refer to Page 18.				

### Notes:

<sup>1</sup> Filter cartridge is permanently sealed into housing. The entire unit is disposable. Pressure relief filter tube retainer not available in these models.



# Recommended Exhaust Filters for Vacuum Pumps

Pump Model No.	Pump Rating (Free Air) m <sup>3</sup> /hr CFM		Recommended Pump Exhaust (NPT Female Unless Otherwise Noted)	Parker Filter Non-Hazardous Non-Corrosive Applications	Recommended Balston Anodized Aluminium Pump -To- Filter Adaptor <sup>(1)</sup>	Balston Balston Filter Hazardous and Corrosive Applications	Stainless Steel Pump -To- Filter Adaptor <sup>(1)</sup>
<b>Alcatel Pumps</b>							
ZM/ZT 1004A/AC	5	3	NW 25	18/18	14175	CV-0112	14182
ZM/ZT 1012A	19	11	NW 25	AR-0316	14173	ACV-0135	14177
ZM/ZT 1030	29	17	1" OD Tube	AR-0316		ACV-0135	
ZM/ZT 1033	46	27	NW 40	AR-0335	14174		
ZT 1060	51	30	1.63" OD Tube	AR-0335			
ZT 1063	85	50	NW 40	AR-0735	14174 <sup>(2)</sup>	ACV-0735	14178 <sup>(3)</sup>
ZT 1200A	255	150	1.63" OD Tube	AR-0780		ACV-0780	
ZM/ZT 2004A	5	3	NW 25	18/18	14173	CV-0112	14182
ZM/ZT 2007	12	7	NW 25	18/18	14173	CV-0118	14182
ZM/ZT 2008A/AC	12	7	NW 25	18/18	14173	CV-0118	14182
ZM/ZT 2012A/AC/H	19	11	NW 25	AR-0316	14173	ACV-0135	14177
UM/UT 2020	27	16	NW 25	AR-0316	14173	ACV-0135	14177
ZM/ZT 2030/H	29	17	1" OD Tube	AR-0316		ACV-0135	
ZM/ZT 2033/C	46	27	NW 40	AR-0335	14174		
ZT 2060/H/HUS	51	30	1.63" OD Tube	AR-0335			
ZT 2063/C	85	50	NW 40	AR-0735	14174 <sup>(2)</sup>	ACV-0735	14178 <sup>(3)</sup>
ZT 2100A/AC	153	90	NW 50	AR-0735		ACV-0735	14179 <sup>(3)</sup>
<b>Balzars Pumps</b>							
UNO/DUO 1.5A	2	1.0	KF10	9955-12		CV-0112	
UNO/DUO 004A/B	5	3	KF25	9955-12	14175	CV-0112	14182
UNO/DUO 008A/B	9	5	KF25	18/18	14173	CV-0118	14182
UNO/DUO 012A	14	8	KF25	18/18	14173	CV-0118	14182
UNO/DUO 016B	18	11	KF25	AR-0316	14173	ACV-0135	14177
UNO/DUO 030A	34	20	KF40	AR-0316	14174	ACV-0135	14178 <sup>(5)</sup>
UNO/DUO 060A	67	40	KF40	AR-0335	14174		
UNO/DUO 250A	267	157	ISO 100	AR-0780		ACV-0780	
UNO 100	95	56	32mm OD Tube <sup>(4)</sup>	AR-0735		ACV-0735	
DUO 100	97	57	32mm OD Tube <sup>(4)</sup>	AR-0735		ACV-0735	
UNO/DUO 120A	127	75	ISO 63	AR-0735		ACV-0735	
UNO 170	155	91	32mm OD Tube <sup>(4)</sup>	AR-0735		ACV-0735	
DUO 170	170	100	32mm OD Tube <sup>(4)</sup>	AR-0735		ACV-0735	
BA 251	270	159	ISO 63	AR-0780		ACV-0780	
BA 501	545	321	ISO 100	AR-1680		ACV-0780 <sup>(6)</sup>	

## Notes:

- 1 If no part number is listed, adaptor is not supplied by Parker. In most cases, customer can assemble adaptor from standard pipe fittings. Refer to page 19.
- 2 Requires 3" Male x 1 1/2" Female reducing bushing supplied by customer.
- 3 Requires 2" Male x 1 1/2" Female reducing bushing supplied by customer.
- 4 Exhaust port is horizontal. Customer should provide elbow so that filter is mounted vertically.
- 5 Requires 1" Male x 1 1/2" Female bushing supplied by customer.
- 6 Multiple filters piped in parallel are required.



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# Recommended Exhaust Filters for Vacuum Pumps

Pump Model No.	Pump Rating (Free Air) m <sup>3</sup> /hr CFM		Recommended Pump Exhaust (NPT Female Unless Otherwise Noted)	Parker Filter Non-Hazardous Non-Corrosive Applications	Recommended Balston Anodized Aluminium Pump -To- Filter Adaptor <sup>(1)</sup>	Balston Balston Filter Hazardous and Corrosive Applications	Stainless Steel Pump -To- Filter Adaptor <sup>(1)</sup>
<b>Beach-Russ Pumps</b>							
SS 1	10	6	3/4"	18/18		CV-0118	
SS 1	15	9	3/4"	18/18		CV-0118	
SS 2	25	15	3/4"	AR-0316		ACV-0135	
SS 3	48	28	1"	AR-0335			
SS 4	77	45	1 1/4"	AR-0735		ACV-0735	
SS 5	102	60	1 1/2"	AR-0735		ACV-0735	
RP/RV 6	14	8	1/2"	18/18		CV-0118	
SS 6	127	75	1 1/2"	AR-0735		ACV-0735	
SS 7	187	110	2"	AR-0780		ACV-0780	
SS 8	255	150	2 1/2"	AR-0780		ACV-0780	
SS 9	382	225	4"	AR-1280		ACV-0780 <sup>(2)</sup>	
SS 10	637	375	6"	AR-1680		ACV-0780 <sup>(2)</sup>	
RP/RV 12	31	18	3/4"	AR-0316		ACV-0135	
RP 15	51	30	1 1/2"	AR-0335			
RP 15-6	51	30	1"	AR-0335			
RP 30	85	50	1 1/2"	AR-0735		ACV-0735	
RP 30-6	85	50	1"	AR-0735		ACV-0735	
RP 50/50-6	136	80	2"	AR-0735		ACV-0735	
RP 135/135-12	238	140	3"	AR-0780		ACV-0780	
RP-150/150-12	297	175	3"	AR-0780		ACV-0780	
RP 250	527	310	5"	AR-1280		ACV-0780 <sup>(2)</sup>	
RP 250-12	527	310	4"	AR-1280		ACV-0780 <sup>(2)</sup>	
RP 325	637	375	5"	AR-1680		ACV-0780 <sup>(2)</sup>	
RP 325-12	637	375	4"	AR-1680		ACV-0780 <sup>(2)</sup>	
RP 375	850	500	6"	AR-3080		ACV-0780 <sup>(2)</sup>	
RP 375-50	850	500	4"	AR-3080		ACV-0780 <sup>(2)</sup>	
RP 750	1,529	900	8"	AR-1680 <sup>(2)</sup>		ACV-0780 <sup>(2)</sup>	
RP 750-50	1,529	900	5"	AR-1680 <sup>(2)</sup>		ACV-0780 <sup>(2)</sup>	
RP 1000	1,869	1,100	8"	AR-3080 <sup>(2)</sup>		ACV-0780 <sup>(2)</sup>	
RP 1000-50	1,896	1,100	5"	AR-3080 <sup>(2)</sup>		ACV-0780 <sup>(2)</sup>	
<b>Busch Pumps</b>							
002-192	2	1	KF-16	9956-12		CV-0112	14181
004-192	5	3	KF-16	9956-12		CV-0112	14181
008-192	10	6	KF-16	18/18	14172	CV-0118	14181 <sup>(4)</sup>
010-112/118	10	6	3/4"	18/18		CV-0118	
016-192	19	11	KF-16	AR-0316	14180	ACV-0135	14176
016-112/118	14	8	3/4" <sup>(3)</sup>	18/18		CV-0118	
021-336/338	25	15	3/4" <sup>(3)</sup>	AR-0316		ACV-0135	
025-132/138	34	20	1 1/4" <sup>(3)</sup>	AR-0316		ACV-0135	
040-132/138	48	28	1 1/4" <sup>(3)</sup>	AR-0335			
063-132/138	70	41	1 1/4" <sup>(3)</sup>	AR-0335			
110-132/138	107	63	1 1/4" <sup>(3)</sup>	AR-0735		ACV-0735	
160-112/118/132/138	199	117	2" <sup>(3)</sup>	AR-0780		ACV-0780	
216-002	212	125	2"	AR-0780		ACV-0780	
225-002	340	200	2"	AR-0780		ACV-0780	
240-002	510	300	2"	AR-1280		ACV-0780 <sup>(2)</sup>	
250-112/118/132/138	296	174	2" <sup>(3)</sup>	AR-0780		ACV-0780	
263-002	850	500	2"	AR-3080		ACV-0780 <sup>(2)</sup>	
400-212/218	510	300	2"	AR-1280		ACV-0780 <sup>(2)</sup>	
630-212/218	731	430	3" <sup>(3)</sup>	AR-1680		ACV-0780 <sup>(2)</sup>	
1000-212/228	1,104	650	6" <sup>(3)</sup>	AR-3080		ACV-0780 <sup>(2)</sup>	
1600-212/228	1,869	1,100	6" <sup>(3)</sup>	AR-3080 <sup>(2)</sup>		ACV-0780 <sup>(2)</sup>	
429	212	125	2"	AR-0780		ACV-0780	
433	340	200	2"	AR-0780		ACV-0780	
437	527	310	2"	AR-1280		ACV-0780 <sup>(2)</sup>	
441	985	580	2"	AR-3080		ACV-0780 <sup>(2)</sup>	
445	1,325	780	6" <sup>(3)</sup>	AR-3080		ACV-0780 <sup>(2)</sup>	

- Notes:**  
1 If no part number is listed, adaptor is not supplied by Parker. In most cases, customer can assemble adaptor from standard pipe fittings. Refer to pages 18.  
2 Multiple filters piped in parallel are required.  
3 Requires flange to NPT adaptor from pump manufacturer.  
4 Requires 3/4" Male x 1/2" Female reducing bushing supplied by customer.

# Recommended Exhaust Filters for Vacuum Pumps

Pump Model No.	Pump Rating (Free Air) m <sup>3</sup> /hr CFM		Recommended Pump Exhaust (NPT Female Unless Otherwise Noted)	Parker Filter Non-Hazardous Non-Corrosive Applications	Recommended Balston Anodized Aluminium Pump -To- Filter Adaptor <sup>(1)</sup>	Balston Balston Filter Hazardous and Corrosive Applications	Stainless Steel Pump -To- Filter Adaptor <sup>(1)</sup>
<b>Central Scientific Pumps (Cenco, Boekel, HYVAC)</b>							
HYVAC 1 (91105)	0.6	0.35	3/8"	9955-12		CV-0112	
HYVAC 2 (91305/8)	1.5	0.88	1/2"	9955-12		CV-0112	
HYVAC 4 (91482)	3	2	1/2"	9955-12		CV-0112	
HYVAC 7(91506, 91502)	5	3	1/2"	9955-12		CV-0112	
HYVAC 7S (91138)	5	3	1/2"	9955-12		CV-0112	
HYVAC 14 (91705)	10	6	3/4"	18/18		CV-0118	
HYVAC 14S (91140)	10	6	3/4"	18/18		CV-0118	
HYVAC 28 (91905)	19	11	1 1/2"	AR-0316		ACV-0135	
HYVAC 28S (91142)	19	11	1 1/2"	AR-0316		ACV-0135	
HYVAC 45 (91955)	31	18	1 1/2"	AR-0316		ACV-0135	
HYVAC 150 (91957)	90	53	3"	AR-0735		ACV-0735	
HYVAC 300 (91960)	180	106	3"	AR-0780		ACV-0780	
MEGAVAC (92003)	3	2	1/2"	9955-12		CV-0112	
PRESSOVAC (90510/15/16)	2	1	3.8" OD Tube	9955-12		CV-0112	
DIRECT DRIVE (90703)	4	2	3/8"	9955-12		CV-0112	
DIRECT DRIVE (90700)	2	1	3/8"	9955-12		CV-0112	
<b>Edwards High Vacuum Pumps</b>							
SPEEDIVAC 2	3	2	3/8 BSPT	9955-12	14157	CV-0112	
E2M1	2	1	3/8 BSPT	9955-12	14157	CV-0112	
E2M2	3	2	3/4 BSPT	9955-12	14158	CV-0112	
E1/E2M5	6	4	3/4 BSPT	18/18	14159	CV-0118	
EDM6	8	5	1/2"	18/18		CV-0118	
E1/E2M8	12	7	3/4 BSPT	18/18	14159	CV-0118	
EDM12	17	10	1/2"	AR-0316		ACV-0135	
E1/E2M18	26	15	3/4"	AR-0316		ACV-0135	
EDM20	26	15	1/2"	AR-0316		ACV-0135	
E2M30	52	30	KF25	AR-0335	14183		
E1/E2M40	52	30	KF25	AR-0335	14183		
ED/ES 50	7	4	1/4"	18/18		CV-0118	
ED/ES65	3	2	1/4" <sup>(2)</sup>	9955-12		CV-0112	
E1/E2M80	97	57	KF25	AR-0735	14183 <sup>(2)</sup>	ACV-0735	14177 <sup>(2)</sup>
ED/ES100	6	4	1/4" <sup>(2)</sup>	18/18		CV-0118	
E1/E2M175	212	125	1 1/2"	AR-0780		ACV-0780	
ED/ES200	12	7	3/8" <sup>(2)</sup>	18/18		CV-0118	
E1/E2M275	246	145	1 1/2"	AR-0780		ACV-0780	
ES330	20	12	3/8" <sup>(2)</sup>	AR-0316		ACV-0135	
ISC 450	34	20	1/2"	AR-0316		ACV-0135	
ED 500	31	18	1/2"	AR-0316		ACV-0135	
ED660	39	23	1/2" <sup>(2)</sup>	AR-0335			
ISC 900	66	39	3/4"	AR-0335			
ES2000	121	71	1 1/2"	AR-0735		ACV-0735	
ES4000	246	145	1 1/2"	AR-0780		ACV-0780	
ES7500	467	275	2 1/2"	AR-1280		ACV-0780 <sup>(2)</sup>	
RV3	5	3	3/4"	9955-12	<sup>(2)</sup>	CV-0112	<sup>(2)</sup>
RV5	7	4	NW25	18/18	14173	CV-0118	14182
RV8	12	7	NW25	18/18	14173	CV-0118	14182
RV12	17	10	NW25	AR-0316	14173	ACV-0135	14177

## Notes:

- 1 If no part number is listed, adaptor is not supplied by Parker. In most cases, customer can assemble adaptor from standard pipe fittings. Refer to pages 18.
- 2 Exhaust port is horizontal. Customer should provide elbow so that filter is mounted vertically.
- 3 Multiple filters piped in parallel are required.
- 4 Reducing bushing required. Customer to provide.



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# Recommended Exhaust Filters for Vacuum Pumps

Pump Model No.	Pump Rating (Free Air) m <sup>3</sup> /hr CFM		Recommended Pump Exhaust (NPT Female Unless Otherwise Noted)	Parker Filter Non-Hazardous Non-Corrosive Applications	Recommended Balston Anodized Aluminium Pump -To- Filter Adaptor <sup>(1)</sup>	Balston Balston Filter Hazardous and Corrosive Applications	Stainless Steel Pump -To- Filter Adaptor <sup>(1)</sup>
<b>Gast Pumps</b>							
0211	2	1	1/4"	9955-12		CV-0112	
0240	3	2	1/4"	9955-12		CV-0112	
0322	5	3	1/4"	9955-12		CV-0112	
0440	6	4	1/4"	18/18		CV-0118	
0465	6	4	3/8"	18/18		CV-0118	
0522	6	4	1/4"	18/18		CV-0118	
0740	10	6	3/8"	18/18		CV-0118	
0765	10	6	3/8"	18/18		CV-0118	
0822	12	7	3/8"	18/18		CV-0118	
1022	17	10	3/8"	AR-0316		ACV-0135	
1065	14	8	1/2"	18/18		CV-0118	
1550	20	12	1/2"	AR-0316		ACV-0135	
2065	29	17	3/4"	AR-0316		ACV-0135	
2067	29	17	3/4"	AR-0316		ACV-0135	
2565	36	21	3/4"	AR-0335			
3040	53	31	1"	AR-0335			
4565	82	48	3/4"	AR-0735		ACV-0735	
5565	93	55	1"	AR-0735		ACV-0735	
4BA-1-G482X	3	2	1/2"	9955-12		CV-0112	
4AB-1-G482X	3	2	1/2"	9955-12		CV-0112	
4BA-1-G492X	3	2	1/2"	9955-12		CV-0112	
4BA-1-G499	3	2	1/2"	9955-12		CV-0112	
4BA-1-G511X	3	2	1/2"	9955-12		CV-0112	
4BA-1-G538X	3	2	1/2"	9955-12		CV-0112	
5BA-1-G482X	6	4	1/2"	18/18		CV-0118	
5AB-1-G482X	6	4	1/2"	18/18		CV-0118	
5BB-1-G482X	6	4	1/2"	18/18		CV-0118	
6BA-1-G535X	12	7	1"	18/18		ACV-0135	
6AB-1-G504X	12	7	1"	18/18		ACV-0135	
7BA-1-G506X	19	11	1"	R-0316		ACV-0135	
7AB-1-G506X	19	11	1"	R-0316		ACV-0135	
8BA-1-G506X	24	14	1 1/4"	R-0316		ACV-0135	
8AB-G506X	24	14	1 1/4"	R-0316		ACV-0135	
<b>Hitachi Pumps</b>							
SVF 10F	6	4	M24 x 1	18/18	14168	CV-0118	
SVR 16F	10	6	M24 x 1	18/18	14168	CV-0118	
100 VPS	6	4	M24 x 1	18/18	14168	CV-0118	
160 VPD/VPS	10	6	M24 x 1	18/18	14168	CV-0118	
16 VP	10	6	M24 x 1	18/18	14168	CV-0118	
3 VPC	3	2	M14 x 1	9955-12		CV-0112	
4 VPC	6	4	M14 x 1	18/18		CV-0118	
<b>Ingersoll-Rand Pumps</b>							
AV/AVX2	5	3	3/8"	9955-12		CV-0112	
BV/BVX2	8	5	3/8"	18/18		CV-0118	
V23A/V23AX7	15	9	3/4"	18/18		CV-0118	
V235/V235X1	31	18	1"	AR-0316		ACV-0135	
V244/V244X2	54	32	1 1/4"	AR-0335			
V255/V255X3	102	60	1 1/2"	AR-0735		ACV-0735	
V255X5	102	60	1 1/2"	AR-0735		ACV-0735	
7V/7VX5	168	99	1 1/2"	AR-0735		ACV-0735	
15V/15VX7	226	133	2"	AR-0780		ACV-0780	
20VX10	364	214	2 1/2"	AR-1280		ACV-0780 <sup>(2)</sup>	
20V/20VX15	500	294	2 1/2"	AR-1280		ACV-0780 <sup>(2)</sup>	

**Notes:**  
 1 If no part number is listed, adaptor is not supplied by Parker. In most cases, customer can assemble adaptor from standard pipe fittings. Refer to pages 18.  
 2 Multiple filters piped in parallel are required

# Recommended Exhaust Filters for Vacuum Pumps

Pump Model No.	Pump Rating (Free Air) m <sup>3</sup> /hr CFM	Recommended Pump Exhaust (NPT Female Unless Otherwise Noted)	Parker Filter Non-Hazardous Non-Corrosive Applications	Recommended Balston Anodized Aluminium Pump -To- Filter Adaptor <sup>(1)</sup>	Balston Balston Filter Hazardous and Corrosive Applications	Stainless Steel Pump -To- Filter Adaptor <sup>(1)</sup>
<b>ITT Pneumotive (Leiman Brothers)</b>						
B	17	10	3/4"	AR-0316	ACV-0135	
C	31	18	1"	AR-0316	ACV-0135	
29-3J	34	20	1"	AR-0316	ACV-0135	
195-2	34	20	3/4"	AR-0316	ACV-0135	
C-3	37	22	1"	AR-0335		
30-3	59	35	1"	AR-0335		
C-6	63	37	1 1/2"	AR-0335		
29-6J	85	50	1 1/2"	AR-0735	ACV-0735	
30-6	102	60	1 1/2"	AR-0735	ACV-0735	
100	190	112	1 1/2"	AR-0780	ACV-0780	
100J	212	125	1 1/2"	AR-0780	ACV-0780	
107/107J	340	200	3"	AR-0780	ACV-0780	
<b>Kinney Pumps</b>						
KC/KVS/KVC-2	3	2	3/4"	9955-12	CV-0112	
KC/KVC-3	5	3	3/4"	9955-12	CV-0112	
KC-5	8	5	3/4"	18/18	CV-0118	
KVC-6	10	6	3/4"	18/18	CV-0118	
KC-8	14	8	3/4"	AR-0316	ACV-0135	
KS-13	22	13	1 1/4"	AR-0316	ACV-0135	
TCS-14	24	14	3/4"	AR-0316	ACV-0135	
KC-15	25	15	1 1/4"	AR-0316	ACV-0135	
KS-15	25	15	1 1/4"	AR-0316	ACV-0135	
KTC-21	36	21	1"	AR-0335		
TCS-21	36	21	3/4"	AR-0335		
KD-30	56	33	1 1/4"	AR-0335		
TCS-35	51	30	1 1/4"	AR-0335	14174	
KD-50	88	52	1 1/4"	AR-0735	ACV-0735	
TCS-55	92	54	1 1/2"	AR-0735	ACV-0735	
KTC-60	102	60	1 1/2" <sup>(2)</sup>	AR-0735	ACV-0735	
KDH-65	117	69	1 1/2"	AR-0735	ACV-0735	
TCS-70	121	71	1 1/2"	AR-0735	ACV-0735	
KDH-80	141	83	1 1/2"	AR-0735	ACV-0735	
TCS-90	150	88	2"	AR-0735	ACV-0735	
KTC-112	182	107	2" <sup>(2)</sup>	AR-0780	ACV-0780	
KDH-130	228	134	2"	AR-0780	ACV-0780	
KDH-150	280	165	2"	AR-0780	ACV-0780	
KT-150	244	144	2" <sup>(2)</sup>	AR-0780	ACV-0780	
KTC-225	375	221	3" <sup>(2)</sup>	AR-1280	ACV-0780 <sup>(3)</sup>	
KT-300	503	296	3" <sup>(2)</sup>	AR-1280	ACV-0780 <sup>(3)</sup>	
KT-500	839	494	3" <sup>(2)</sup>	AR-3080	ACV-0780 <sup>(3)</sup>	
KT-850	1,321	778	4" Flange	AR-3080	ACV-0780 <sup>(3)</sup>	
<b>Lammert Pumps</b>						
10301	3	2	1/2"	9955-12	CV-0112	
10302	3	2	1/2"	9955-12	CV-0112	
10305/01131	8	5	3/4"	18/18	CV-0118	
10307/01133	14	8	1"	18/18	CV-0118	
10310/02131	17	10	1"	AR-0316	ACV-0135	
02133	25	15	3/4"	AR-0316	ACV-0135	
03131/03231	34	20	1 1/4"	AR-0316	ACV-0135	
04231/04131	51	30	1 1/4"	AR-0335		
03133/03233	51	30	1 1/4"	AR-0335		
04133/04233	85	50	1 1/4"	AR-0735	ACV-0735	
05131/05231	127	75	2"	AR-0735	ACV-0735	
06231/05133/05233	170	100	2"	AR-0735	ACV-0735	
07231	212	125	3"	AR-0780	ACV-0780	
06233/08231	255	150	3"	AR-0780	ACV-0780	
07233	340	200	3"	AR-0780	ACV-0780	
08233/09231	425	250	3"	AR-1280	ACV-0780 <sup>(3)</sup>	
09233	595	350	3"	AR-1680	ACV-0780 <sup>(3)</sup>	

## Notes:

- 1 If no part number is listed, adaptor is not supplied by Parker. In most cases, customer can assemble adaptor from standard pipe fittings. Refer to pages 18.
- 2 Exhaust port is horizontal. Customer should provide elbow so that filter is mounted vertically.
- 3 Multiple filters piped in parallel are required.



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# Recommended Exhaust Filters for Vacuum Pumps

Pump Model No.	Pump Rating (Free Air) m <sup>3</sup> /hr CFM		Recommended Pump Exhaust (NPT Female Unless Otherwise Noted)	Parker Filter Non-Hazardous Non-Corrosive Applications	Recommended Balston Anodized Aluminium Pump -To- Filter Adaptor <sup>(1)</sup>	Balston Balston Filter Hazardous and Corrosive Applications	Stainless Steel Pump -To- Filter Adaptor <sup>(1)</sup>
<b>Leybold Heraeus Pumps</b>							
D/S 2A	3	2	KF 16	9956-12		CV-0112	14181
D/S 4A	8	5	KF 16	18/18	14172	CV-0118	14181 <sup>(3)</sup>
D/S 8A	12	7	KF 25	18/18	14173	CV-0118	14182
D 4B	5	3	KF 16	18/18	14172	CV-0118	14181 <sup>(3)</sup>
D 8B	12	7	KF 16	18/18	14172	CV-0118	14181 <sup>(3)</sup>
D/S 16A	24	14	KF 25	AR-0316	14173	ACV-0135	14177
D25	34	20	KF 25	AR-0316	14173	ACV-0135	14177
D/S 30A	46	27	KF 40	AR-0335	14178		
SV 40	51	30	1 1/4"	AR-0335			
DK 50	54	32	KF 50	AR-0335			
D/S 60A	63	37	KF 40	AR-0335	14178		
D 65	90	53	KF 40	AR-0735	14174 <sup>(4)</sup>	ACV-0735	14178 <sup>(2)</sup>
SV 65	76	45	1 1/4"	AR-0335		ACV-0335	
E 75	83	49	KF 50	AR-0735		ACV-0735	14179 <sup>(2)</sup>
D/S 90A	93	55	KF 40	AR-0735	14174 <sup>(4)</sup>	ACV-0735	14178 <sup>(2)</sup>
DK 100	110	65	KF 50	AR-0735		ACV-0735	14179 <sup>(2)</sup>
SV 100	119	70	2"	AR-0735		ACV-0735	
E 150	160	94	KF 50	AR-0735		ACV-0735	14179 <sup>(2)</sup>
SV 180	212	125	2"	AR-0780		ACV-0780	
DK 200	130	221	3" ASA Flange	AR-0780		ACV-0780	
E 250	162	275	3" ASA Flange	AR-0780		ACV-0780	
SV 280	340	200	2"	AR-0780		ACV-0780	
SV 500	318	540	3"	AR-1280		ACV-0780 <sup>(5)</sup>	
SV 580	339	576	3"	AR-1680		ACV-0780 <sup>(5)</sup>	
<b>Marvac Pumps</b>							
A-1	2	1	3/8"	9955-12		CV-0112	
A-2	2	1	3/8"	9955-12		CV-0112	
A-10	3	2	3/8"	9955-12		CV-0112	
A-20	3	2	3/8"	9955-12		CV-0112	
A-222	7	4	1/2"	18/18		CV-0118	
B-2	5	3	1/2"	9955-12		CV-0112	
B-3	10	6	3/4"	18/18		CV-0118	
B-6	34	20	1 1/4"	AR-0316		ACV-0135	
B-20	7	4	1/2"	18/18		CV-0118	
B-30	15	9	1"	18/18		CV-0118	
B-222	12	7	3/4"	18/18		CV-0118	
R-10	3	2	3/8"	9955-12		CV-0112	
R-20	3	2	3/8"	9955-12		CV-0112	
R-22	5	3	3/8"	9955-12		CV-0112	
R-55	10	6	3/8"	18/18		CV-0118	
<b>Maxima Pumps (Fisher Scientific)</b>							
D2A [01-057-2A]	3	2	KF 16	9956-12		CV-0112	14181
D4A [01-057-4A]	9	5	KF 16	18/18	14172	CV-0118	14181 <sup>(3)</sup>
D8A [01-057-8A]	12	7	KF 25	18/18	14173	CV-0118	14182
D16A [01-057-16A]	24	14	KF 25	AR-0316	14173	ACV-0135	14177
D30A [01-057-30A]	46	27	KF 40	AR-0335	14174		
D60A [01-057-60A]	63	37	KF 40	AR-0335	14174 <sup>(4)</sup>		
D90A [01-057-90A]	93	55	KF 40	AR-0735		ACV-0735	14178 <sup>(2)</sup>

- Notes:**
- 1 If no part number is listed, adaptor is not supplied by Parker. In most cases, customer can assemble adaptor from standard pipe fittings. Refer to page 18.
  - 2 Requires 2" Male x 1 1/2" Female reducing bushing supplied by customer.
  - 3 Requires 3/4" Male x 1/2" Female reducing bushing supplied by customer.
  - 4 Requires 3" Male x 1 1/2" Female reducing bushing supplied by customer.
  - 5 Requires Multiple Filters piped in parallel.



# Recommended Exhaust Filters for Vacuum Pumps

Pump Model No.	Pump Rating (Free Air) m <sup>3</sup> /hr CFM	Recommended Pump Exhaust (NPT Female Unless Otherwise Noted)	Parker Filter Non-Hazardous Non-Corrosive Applications	Recommended Balston Anodized Aluminium Pump -To- Filter Adaptor <sup>(1)</sup>	Balston Balston Filter Hazardous and Corrosive Applications	Stainless Steel Pump -To- Filter Adaptor <sup>(1)</sup>
<b>Precision Scientific Pumps</b>						
DD-20	2	1	3/4"	9955-12	CV-0112	
D-25	2	1	3/4"	9955-12	CV-0112	
S/PV-35	2	1	3/4"	9955-12	CV-0112	
DD-50	3	2	3/4"	9955-12	CV-0112	
D-75	5	3	3/4"	9955-12	CV-0112	
DD-90	5	3	3/4"	18/18	CV-0118	
DD-100	6	4	3/4"	18/18	CV-0118	
D-150	8	5	3/4"	18/18	CV-0118	
DD/DDC-195	12	7	3/4"	18/18	CV-0118	
S/D-300	19	11	1"	AR-0316	ACV-0135	
DD/DDC 310	19	11	3/4"	AR-0316	ACV-0135	
DD/DDC 475	29	17	3/4"	AR-0316	ACV-0135	
S/D-500	31	18	1 1/4"	AR-0316	ACV-0135	
S/D-1000	59	35	1 1/2"	AR-0335		
S/D-1500	90	53	1 1/2"	AR-0735	ACV-0735	
<b>Quincy Pumps</b>						
QSVB-10	134	79	1 1/4"	AR-0735	ACV-0735	
QSVB-20	227	134	1 1/4"	AR-0780	ACV-0780	
QSVI-20	270	159	2 1/2"	AR-0780	ACV-0780	
QSVI-40	535	315	2 1/2"	AR-1280	ACV-0780 <sup>(2)</sup>	
<b>Rietschle Pumps</b>						
VAL/VL/VE 10	12	7	NW 25	18/18	CV-0118	14182
VF/VFE/CLFG 11	12	7	1/2"	18/18	CV-0118	
VF/VFE 16	17	10	1/2"	AR-0316	ACV-0135	
CLFG/CLF/CLFE 16	17	10	1/2"	AR-0316	ACV-0135	
VAL/VL/VLV 25	29	17	NW 25	AR-0316	ACV-0135	14177
VF/VFE 26	29	17	3/4"	AR-0316	ACV-0135	
CLFG/CLF/CLFE 26	29	17	3/4"	AR-0316	ACV-0135	
VL/VLV 40	51	30	NW 25	AR-0335		
VF/VFE 41	46	27	3/4"	AR-0335	14183	
CLFG/CLF/CLFE 41	46	27	3/4"	AR-0335		
VL/VLV 60	68	40	3/4"	AR-0335		
VF/VFE 61	68	40	3/4"	AR-0335		
CLFG/CLF/CLFE 61	68	40	3/4"	AR-0335		
VL/VLV 80	92	54	NW 40	AR-0735	14174 <sup>(4)</sup>	14178 <sup>(5)</sup>
VF/VFE 81	92	54	1	AR-0735		
CLFG/CLF/CLFE 81	92	54	1	AR-0735		
VL/VLV 100	114	67	NW 40	AR-0735	14174 <sup>(4)</sup>	14178 <sup>(5)</sup>
VF/VFE 101	114	67	1 1/4"	AR-0735		
CLFG/CLF/CLFE 101	114	67	1 1/4"	AR-0735		
VWZ 102	114	67	NW 65	AR-0735	ACV-0735	
CLF/CLFE 141	160	94	1 1/2"	AR-0735	ACV-0735	
VFH/VFEH 161	183	108	2	AR-0780	ACV-0780	
VWZ 162	183	108	NW 65	AR-0780	ACV-0780	
CLF/CLFE 181	183	108	2"	AR-0780	ACV-0780	
VWZ 252	287	169	NW 65	AR-0780	ACV-0780	
CLFH/CLFEH 341	391	230	3"	AR-1280	ACV-0780*	
VWZ 402	459	270	NW 65	AR-1280	ACV-0780*	
CLFH/CLFEH 501	574	338	3"	AR-1680	ACV-0780*	
CLFH/CLFEH 631	724	426	3"	AR-1680	ACV-0780*	
CLFH/CLFEH 1001	1,150	677	3"	AR-3080	ACV-0780*	

## Notes:

- 1 If no part number is listed, adaptor is not supplied by Parker. In most cases, customer can assemble adaptor from standard pipe fittings. Refer to page 18.
- 2 Multiple filters piped in parallel are required.
- 3 Requires 1 1/2" Male x 1" Female reducing bushing supplied by customer.
- 4 Requires 3" Male x 1 1/2" Female reducing bushing supplied by customer.
- 5 Requires 2" Male x 1 1/2" Female reducing bushing supplied by customer.



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# Recommended Exhaust Filters for Vacuum Pumps

Pump Model No.	Pump Rating (Free Air) m <sup>3</sup> /hr CFM	Recommended Pump Exhaust (NPT Female Unless Otherwise Noted)	Parker Filter Non-Hazardous Non-Corrosive Applications	Recommended Balston Anodized Aluminium Pump -To- Filter Adaptor <sup>(1)</sup>	Balston Balston Filter Hazardous and Corrosive Applications	Stainless Steel Pump -To- Filter Adaptor <sup>(1)</sup>	
<b>RO-FLO Pumps (Allis-Chalmers)</b>							
5CCA	93	55	1 1/2"	AR-0735	ACV-0735		
5CCB	146	86	1 1/2"	AR-0735	ACV-0735		
7DB	257	151	3"	AR-0780	ACV-0780		
7DC	399	235	3"	AR-1280	ACV-0780 <sup>(2)</sup>		
8DB	467	275	3"	AR-1280	ACV-0780 <sup>(2)</sup>		
8DE	586	345	3"	AR-1680	ACV-0780 <sup>(2)</sup>		
10GB	698	411	4"	AR-1680	ACV-0780 <sup>(2)</sup>		
10GC	1,008	593	4"	AR-3080	ACV-0780 <sup>(2)</sup>		
11S	1,254	738	5"	AR-3080			
11L	1,424	838	5"	AR-3080			
12S	1,648	970	6"	AR-3080 <sup>(2)</sup>			
12L	1,835	1,080	6"	AR-3080 <sup>(2)</sup>			
17S	2,086	1,228	6"	AR-3080 <sup>(2)</sup>			
17L	2,413	1,420	6"	AR-3080 <sup>(2)</sup>			
19S	2,876	1,693	8"	AR-3080 <sup>(2)</sup>			
19L	3,262	1,920	8"	AR-3080 <sup>(2)</sup>			
23C	3,857	2,270	8"	AR-3080 <sup>(2)</sup>			
23D	4,655	2,740	8"	AR-3080 <sup>(2)</sup>			
27D	5,607	3,300	10"	AR-3080 <sup>(2)</sup>			
33D	10,109	5,950	14"	AR-3080 <sup>(2)</sup>			
<b>Sargent-Welch Pumps</b>							
1373	19	11	1-20	AR-0316	14163	ACV-0135	
1374	39	23	1-3/4-20	AR-0335	14164		
1375	59	35	Square Flange	AR-0335			
1376	19	11	1-20	AR-0316 <sup>(3)</sup>	14163	ACV-0135 <sup>(3)</sup>	
1380	10	6	1-20	18/18	14162	CV-0118	
1392	2	1	3/4-20	9955-12	14165	CV-0112	
1395	121	71	Square Flange	AR-0735		ACV-0735	
1396	170	100	Square Flange	AR-0735		ACV-0735	
1397	31	18	1-3/4-20	AR-0316	14160	ACV-0135	
1398	90	53	Square Flange	AR-0735		ACV-0735	
1399	2	1	3/4-20	9955-12	14165	CV-0112	
1400	2	1	3/4-20	9955-12	14165	CV-0112	
1402	10	6	1-20	18/18	14162	CV-0118	
1403	7	4	1-20	18/18	14162	CV-0118	
1405	3	2	3/4-20	9955-12	14165	CV-0112	
1410	2	1	1/2" Hose	9955-12		CV-0112	
8802	2	1	3/4-20	9955-12	14165	CV-0112	
8803B/8804B	2	1	3/4-20	9955-12	14165	CV-0112	
8803K/8804K	2	1	3/4-20	9955-12	14165	CV-0112	
8805	3	2	1-20	9955-12	14166	CV-0112	
8806B/K	3	2	NW 25	9955-12	14175	CV-0112	14182
8810	7	4	1-20	9955-12	14166	CV-0118	
8811B	7	4	NW 25	18/18	14173	CV-0118	14182
8811K	5	3	NW 25	9955-12	14175	CV-0112	14182
8814	10	6	NW 25	18/18	14173	CV-0112	14182
8815	8	5	1-20	18/18	14162	CV-0118	
8816B/K	8	5	NW 25	18/18	14173	CV-0118	14182
8821	12	7	NW 25	18/18	14173	CV-0118	14182
8830	17	10	1-3/4-20	AR-0316	14160	ACV-0135	
8834	20	12	NW 40	AR-0316	14174	ACV-0135	14184
8851	31	18	NW 40	AR-0316	14174	ACV-0135	14184
8861	59	35	NW 50	AR-0335	14179		
8871	90	53	NW 50	AR-0735	14179	ACV-0735	
8890	14	8	3/4-20	18/18	14173	CV-0118	14182
8905	3	2	NW 16	9956-12		CV-0112	14181
8910	7	4	NW 16	18/18	14172	CV-0118	14181 <sup>(4)</sup>
8910A	5	3	NW 16	18/18	14172	CV-0118	14181 <sup>(4)</sup>
8915	10	6	1-20	18/18	14162	CV-0118	
8920	14	8	NW 25	18/18	14173	CV-0118	14182

- Notes:**  
1 If no part number is listed, adaptor is not supplied by Parker. In most cases, customer can assemble adaptor from standard pipe fittings. Refer to page 18.  
2 Multiple filters piped in parallel are required.  
3 Consult factory for piping considerations.  
4 Requires 3/4" male x 1/2" female reducing bushing supplied by customer.

# Recommended Exhaust Filters for Vacuum Pumps

Pump Model No.	Pump Rating (Free Air) m <sup>3</sup> /hr CFM		Recommended Pump Exhaust (NPT Female Unless Otherwise Noted)	Parker Filter Non-Hazardous Non-Corrosive Applications	Recommended Balston Anodized Aluminium Pump -To- Filter Adaptor <sup>(1)</sup>	Balston Filter Hazardous and Corrosive Applications	Stainless Steel Pump -To- Filter Adaptor <sup>(1)</sup>
<b>Stokes Pumps</b>							
V-005	12	7	NW 25	18/18	14173	CV-0118	14182
V-009	19	11	NW 25	AR-0316	14173	ACV-0135	14177
V-013-2	34	20	NW 40	AR-0316	14174		
V-017-2	63	37	NW 40	AR-0335	14174		
V-23	93	55	NW 40	AR-0735	14174 <sup>(3)</sup>	ACV-0735	14178 <sup>(4)</sup>
146H	51	30	1 1/4"	AR-0335		ACV-0335	
148H	85	50	1 1/2"	AR-0735		ACV-0735	
149H	136	80	1 1/2"	AR-0735		ACV-0735	
149HS	170	100	1 1/2"	AR-0735		ACV-0735	
212HS	255	150	2"	AR-0780		ACV-0780	
412H	510	300	3"	AR-1280		ACV-0780 <sup>(2)</sup>	
612H	1,020	600	3"	AR-3080		ACV-0780 <sup>(2)</sup>	
912H	1,237	728	5"	AR-3080		ACV-0780 <sup>(2)</sup>	
<b>Ulvac Pumps</b>							
G-5	0.3	0.2	M17 x 1	9955-12		CV-0112	
G-15	1.0	0.6	3/4"	9955-12		CV-0112	
G/GC-25S	1.3	0.8	3/4"	9955-12		CV-0112	
G/GC-20D	1.3	0.8	3/4"	9955-12		CV-0112	
G-50S/D	3	2	3/4"	9955-12		CV-0112	
GC-50D	3	2	3/4"	9955-12		CV-0112	
G-100S/D	6	4	1"	18/18		CV-0118	
GC-100D	6	4	1"	18/18		CV-0118	
GVD-050	3	2	3/4"	9955-12		CV-0112	
GVD-100	9	6	1"	18/18		CV-0118	
GVD-165	12	7	3/4"	18/18		CV-0118	
DA-30S	2	1	3/4"	9955-12		CV-0112	
DA-60S	5	3	3/4"	9955-12		CV-0112	
D-330D	15	9	1 1/2"	18/18		CV-0118	
D-650D	31	18	1 1/2"	AR-0316		ACV-0135	
D-950D	46	27	2"	AR-0335			
PKS-016	97	57	2"	AR-0735		ACV-0735	
PKS-030	182	107	3"	AR-0780		ACV-0780	
PKS-070	425	250	4"	AR-1280		ACV-0780 <sup>(2)</sup>	
PVD-180	10	6	3/4"	18/18		CV-0118	
PDV-360	22	13	1"	AR-0316		ACV-0135	
<b>Varian Pumps</b>							
CS/SS/SD-90	5	3	NW 25	18/18	14173	CV-0118	14182
EVAC 200	12	7	3/4"	18/18		CV-0118	
EVAC 300	19	11	3/4"	AR-0316		ACV-0135	
CD/SD-200	12	7	NW 25	18/18	14173	CV-0118	14182
CD/SS/SD-300	19	11	NW 25	AR-0316	14173	ACV-0135	14177
CD/SS/SD-700	46	27	NW 40	AR-0335	14174		
CD/SS/SD-1400	85	50	NW 40	AR-0735	14173 <sup>(3)</sup>	ACV-0735	14178 <sup>(4)</sup>
CD/SD-2500	153	90	NW 50	AR-0735	14179 <sup>(3)</sup>	ACV-0735	

## Notes:

1 If no part number is listed, adaptor is not supplied by Parker. In most cases, customer can assemble adaptor from standard pipe fittings. Refer to page 18.

2 Multiple filters piped in parallel are required.

3 Requires 3" Male x 1 1/2" Female reducing bushing supplied by customer.

4 Requires 2" Male x 1 1/2" Female reducing bushing supplied by customer.



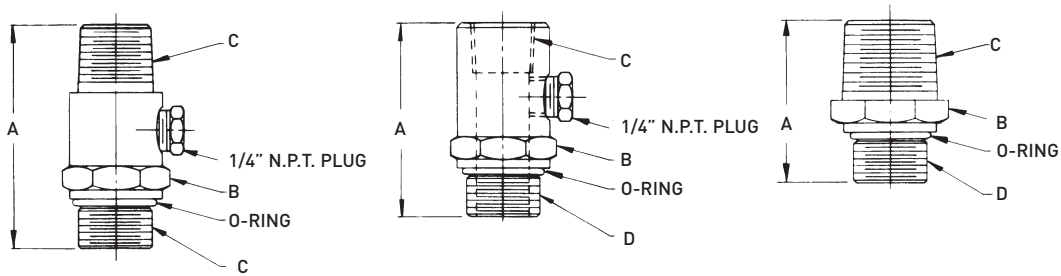
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# Pump to Filter Adaptors

## Pump to Filter Adaptors - Straight Thread to NPT Thread



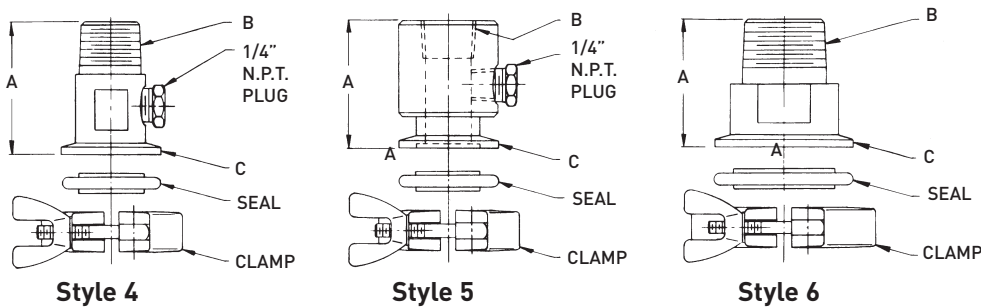
### Principal Specifications

Type	Adaptor Style	Materials of Construction			Dimensions (Inches)		
		Adaptor	Seals	(A) Height	(B) Hex Size	(C) NPT Thread	(D) Thread
14168	1	Alum.	Buna-N	3.0	1.25	3/4	M24 x 1
14166	2	Alum.	Buna-N	2.6	1.25	1/2 F (1)	1-20
14165	2	Alum.	Buna-N	2.44	1.25	1/2 F (1)	3/4-20
14164	3	Alum.	Buna-N	2.88	2.0	1 1/2	1 3/4-20
14163	3	Alum.	Buna-N	2.19	1.38	1	1-20
14162	1	Alum.	Buna-N	3.0	1.25	3/4	1-20
14160	3	Alum.	Buna-N	2.3	2.0	1	1 3/4-20
14159	1	Alum.	Buna-N	3.15	1.25	3/4	3/4 BSPT
14158	2	Alum.	Buna-N	2.80	1.25	1/2 F (1)	3/4 BSPT
14157	2	Alum.	Buna-N	2.56	1.25	1/2 F (1)	3/8 BSPT

**Notes:**

1 Female NPT - all others Male

## Pump to Filter Adaptors - Flange to NPT Thread



### Principal Specifications

Type	Adaptor Style	Materials of Construction			Dimensions (inches)			Other Fittings Included
		Adaptor	Clamp	Seals	(A) Height	(B) NPT Thread	(C) KF Flange <sup>(2)</sup>	
14184	6	Stain. St.	Alum.	Viton	2.0	1	KF-40	3/4" x 1/2" Reducing Bushing
14183	6	Alum.			2.38	1 1/2	KF-25	
14182	4	Stain. St.			2.06	1/2	KF-25	
14181	4	Stain. St.			2.12	1/2	KF-16	
14180	6	Alum.			2.0	1	KF-16	1 1/2" x 1" Reducing Bushing 1" x 3/4" Reducing Bushing 1/2" coupling and 3/4" x 1/2" Reducing Bushing
14179	6	Stain. St.			2.62	1 1/2	KF-50	
14178	6	Stain. St.			2.38	1 1/2	KF-40	
14177	6	Stain. St.			2.0	1	KF-25	
14176	6	Stain. St.			2.0	1	KF-16	
14175	5	Alum.			2.0	1/2 F (1)	KF-25	
14174	6				2.0	1	KF-40	
14173	4				2.06	3/4	KF-25	
14172	4				2.12	1/2	KF-16	

**Notes:**

1 Female NPT - all others are Male

2 The designation "KF" and "NW" are interchangeable

# Filters and Dryers for OEM Solutions

---

## Let Parker join your OEM team

Parker has a long experience of custom designing filters and dryers to suit the needs of original equipment manufacturers.

Filter housings and configurations have been sized for a large number of requirements and the versatile range of Parker filter media means that virtually any filtration problem can be solved.

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