

# Air/Gas Filters - Vacuum

Series P20- Enameled Carbon Steel ◊ Series P22- 304 Stainless

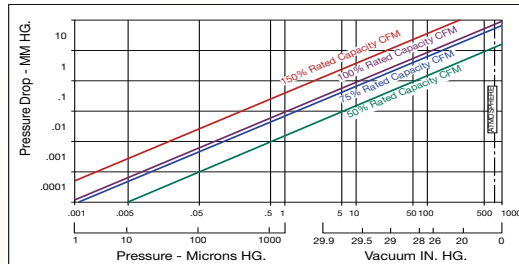
- **Low Pressure Drop**
- **Maximum Useful Filter Area and Dirt Holding Capacity**
- **Hinged Swing Bolt Closure, Easy Access, O Ring Seal**
- **304SS Throat Safety Cages, ΔP Taps Std.**
- **Rugged Enameled Steel Construction** Series P20 air and gas pipe line vacuum filters offer exceptional protection similar to our pressure vessels. They are fabricated from rugged enameled carbon steel. Any model can be modified at your request to more exactly fit your needs.
- **Standard Connection Sizes from 1" to 12"**  
NPT or raised face flanges (RF) in-line connections are std. Alternative orientations and sizes are available upon request. A hinged swing bolt closure is standard.
- **Recoverable Sewn or Rubber End Filter Elements.**  
Classic radial fin textile media elements are unsurpassed for low ΔP, dirt holding capacity and efficiency. They stop particulates before they can move downstream. Select either recoverable 10μ Sewn End Filter Elements or 10μ long life low cost polyurethane rubber molded end elements, as your needs dictate to remove 98% of all airborne dust and dirt. **Unlike PVC or Plastics, these polyurethane rubber ends have no phthalate elastomers to evaporate away in vacuum service.** Our synthetic rubber is cross linked to further limit outgassing\*. Dozens of alternative filter media are available for services having finer micron retentions, elevated temperatures and/or aggressive chemistry, see page 30. \*If trace molecular contamination is of concern in your vacuum service, contact us for specifics.
- **Options:** Models P20-0087-RF-040 and larger include CS leg supports (add 18" to OH). Carbon steel support legs in any length, gauges and special finishes. Call for information on vessels having other pressure services, 304SS, or other materials of construction. [See pgs. 13 & 14 for more options and a worksheet to fax back to us.](#)



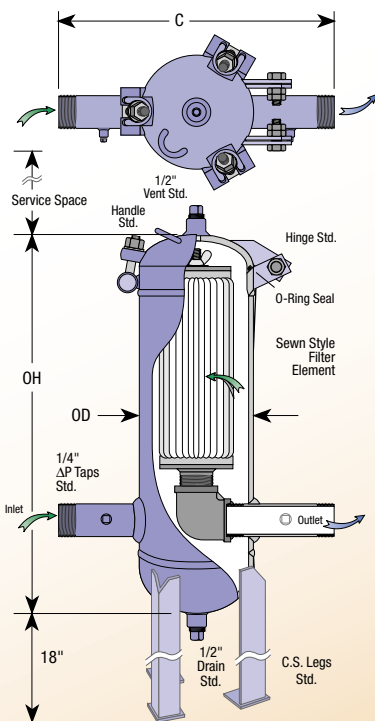
*New solid urethane rubber end seals enable selecting either sewn end or rubber molded end style replacement filter elements.*

Housing Model No. (for 304SS, chg P20 to P22)	100% Pump Discipl. CFM	Conn. Size	Conn Type	Cover Style	Approx. Dimens, in.				Wgt. Lbs.	Select Filter Element	
					OD	OH	C	Serv. Space		Sewn End 10μ	New Rubber End 10μ
*P20-0001-FT-010	26	1"	FPT	T-Top	3½	14¼	4	12	7	320-0443K5	321-2789K5
P20-0084-MT-015	100	1.5"	MPT	Swg Blt	6¾	28	16	16	80	320-0525K5	321-3235K5
P20-0085-MT-020	160	2"	MPT	Swg Blt	8¾	30	16	16	100	320-0526K5	321-3236K5
P20-0086-MT-030	260	3"	MPT	Swg Blt	8¾	39	20	24	175	320-0527K5	321-3237K5
P20-0087-RF-040	450	4"	Flg	Swg Blt	10¾	43	20	24	225	320-0528K5	321-3238K5
P20-0088-RF-060	850	6"	Flg	Swg Blt	12¾	52	24	26	300	320-0529K5	321-3239K5
P20-0089-RF-080	1800	8"	Flg	Swg Blt	16	67	28	36	500	320-0530K5	321-3240K5
P20-0090-RF-100	2800	10"	Flg	Swg Blt	20	74	32	36	850	320-0531K5	321-3241K5
P20-0091-RF-120	4000	12"	Flg	Swg Blt	24	82	36	39	1100	320-0532K5	321-3242K5

\*ΔP Taps Not Available.



Vacuum Conversion Table				
Conversion of pressures between 760 and 0 torr				
Vacuum Range	torr (mm Hg @ 32°F)	psia	Inches Hg @ 32°F	% Vacuum
<b>Low</b>	760	14.7	29.9	0
	750	14.5	29.5	1.3
	735	14.2	28.9	1.9
	700	13.5	27.8	7.9
	600	11.6	23.6	21
	500	9.7	19.7	34
	400	7.7	15.7	47
	380	7.3	15	50
	300	5.8	11.8	61
	200	3.9	7.85	74
150	2.9	5.91	80	
100	1.93	3.94	87	
<b>Intermediate</b>	90	1.74	3.54	88
	80	1.55	3.15	89.5
	70	1.35	2.76	90.8
	60	1.16	2.36	92.1
	51	1	2.03	93
	50	0.97	1.97	93.5
	40	0.77	1.57	94.8
	30	0.58	1.18	96.1
	25.4	0.49	1	96.6
	20	0.39	0.785	97.4
10	0.193	0.394	98.7	
7.6	0.147	0.299	99	
1	0.019	0.039	99.9	
<b>High *</b>	0.75	0.015	0.03	99.9
	0.1	0.0019	0.0039	99.99
	0.01	0.00019	0.0004	99.999
	0	0	0	100



*Welded steel wall and pre-fabricated closures yield for superior strength, closure seal, and corrosion allowance vs. lesser drawn shell designs offered by others.*