

Suction Strainers

Flow Range: 0-300 gpm / 0-1,140 lpm

Outlet Port Size: 3/8" NPT to 4" NPT

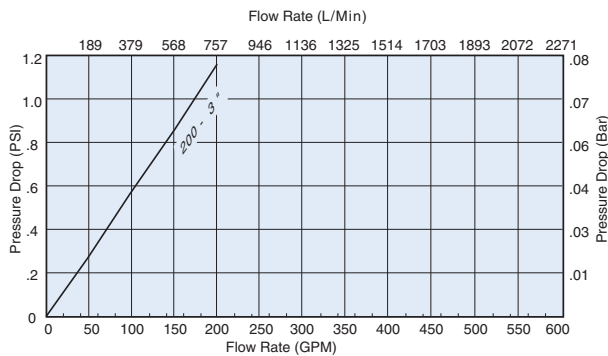
- Stainless Steel Mesh
- Steel or nylon fittings
- Operating temperatures:
Steel fitting to 250°F / 121°C
Nylon fitting to 210°F / 100°C
- Relief valve available



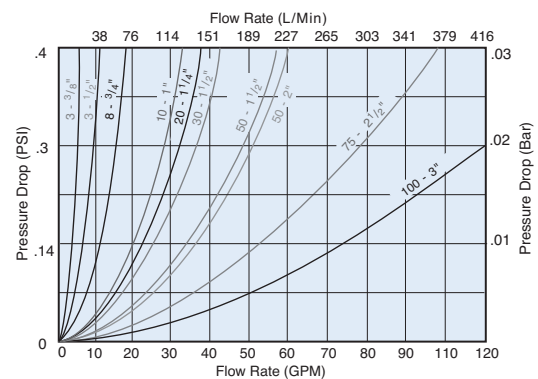
Features

Donaldson suction strainers are zinc-plated, with stainless steel mesh screens and rugged steel core centers epoxy bonded to heavy gauge connector and end caps. Suction strainers filter petroleum-based hydraulic fluids, phosphate esters, water glycols, lubricating oils, coolants, fuels and water in fluid reservoirs, sumps and similar applications. They are cleanable and reusable. Clean by swishing in non-caustic solvent, then blow dry from inner diameter to outer diameter with compressed air.

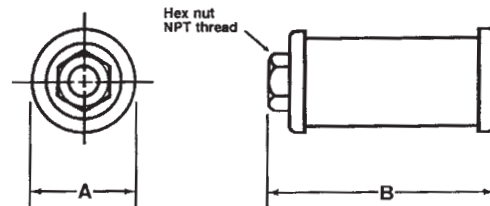
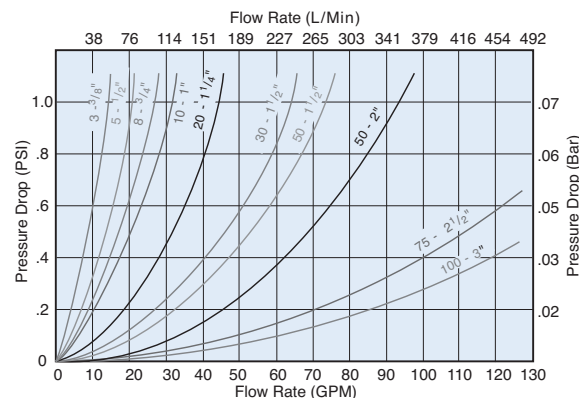
SEC (Steel Fitting) 200-300



PEC (Nylon Fitting) 3-100



SEH/SEC (Steel Fitting) 3-100



Note:

PEC and SEH model strainers have hex nut style outlet fittings. SEC model strainers have pipe coupling style (round) outlet fittings. All styles have NPT threads inside.

Suction Strainer Choices

Donaldson Part No.	Description	Relief Valve Setting	Outlet Pipe Size	Wire Mesh Size	Dim. A (in./mm)	Dim. B (in./mm)	Screen Area (sq. in./sq. cm)	Max. Flow (gpm/lpm)
P562235	PEC-3-3/8-100	n/a	3/8" NPT	100	1.9/48	2.7/69	20/129	3/11
P562240	PEC-5-1/2-100	n/a	1/2" NPT	100	1.9/48	4.3/109	25/161	5/19
P562245	PEC-8-3/4-100	n/a	3/4" NPT	100	2.7/69	4.3/109	40/258	8/30
P562246	PEC-8-3/4-100-RV3	3 psid/0.2 bar	3/4" NPT	100	2.7/69	4.3/109	40/258	8/30
P562244	PEC-8-1-100	n/a	1" NPT	100	2.7/69	4.3/109	40/258	8/30
P562226	PEC-10-1-100	n/a	1" NPT	100	2.7/69	5.6/142	70/452	10/38
P562227	PEC-10-1-100-RV3	3 psid/0.2 bar	1" NPT	100	2.7/69	5.6/142	70/452	10/38
P562228	PEC-20-1.1/4-100	n/a	1-1/4" NPT	100	3.4/86	5.6/142	128/826	20/75
P562229	PEC-20-1.1/4-100-RV3	3 psid/0.2 bar	1-1/4" NPT	100	3.4/86	5.6/142	128/826	20/75
P562231	PEC-20-1.1/4-200	n/a	1-1/4" NPT	200	3.4/86	5.6/142	128/826	20/75
P562232	PEC-30-1.1/2-100	n/a	1-1/2" NPT	100	3.4/86	5.6/142	128/826	30/113
P562233	PEC-30-1.1/2-100-RV3	3 psid/0.2 bar	1-1/2" NPT	100	3.4/86	5.6/142	128/826	30/113
P562236	PEC-50-1.1/2-100	n/a	1-1/2" NPT	100	4/102	8/203	200/1290	50/188
P562237	PEC-50-1.1/2-100-RV3	3 psid/0.2 bar	1-1/2" NPT	100	4/102	8/203	200/1290	50/188
P562238	PEC-50-2-100	n/a	2" NPT	100	4/102	10.4/264	200/1290	50/188
P562239	PEC-50-2-100-RV3	3 psid/0.2 bar	2" NPT	100	4/102	10.4/264	200/1290	50/188
P562242	PEC-75-2.1/2-100	n/a	2-1/2" NPT	100	5.2/132	8.5/216	316/2039	75/282
P562243	PEC-75-2.1/2-100-RV3	3 psid/0.2 bar	2-1/2" NPT	100	5.2/132	8.5/216	316/2039	75/282
P562223	PEC-100-3-100	n/a	3" NPT	100	5.2/132	11.5/292	379/2445	100/376
P562224	PEC-100-3-100-RV3	3 psid/0.2 bar	3" NPT	100	5.2/132	11.5/292	379/2445	100/376
P562225	PEC-100-3-100-SST	n/a	3" NPT	100	5.2/132	11.5/292	379/2445	100/376
P562221	SEH-3-3/8-100	n/a	3/8" NPT	100	1.9/48	2.5/64	34/219	3/11
P169012	SEH-5-1/2-100	n/a	1/2" NPT	100	2.63/67	3.1/79	62/400	5/19
P563305	SEH-5-1/2-100-RV3	3 psid/0.2 bar	1/2" NPT	100	2.7/69	3.1/79	62/400	5/19
P169013	SEH-8-3/4-100	n/a	3/4" NPT	100	2.63/67	3.55/90	68/439	8/30
P173910	SEH-8-3/4-100-RV3	3 psid/0.2 bar	3/4" NPT	100	2.63/67	3.55/90	68/439	8/30
P169014	SEH-10-1-100	n/a	1" NPT	100	2.63/67	5.35/136	110/710	10/38
P173911	SEH-10-1-100-RV3	3 psid/0.2 bar	1" NPT	100	2.63/67	5.35/136	110/710	10/38
P169015	SEH-20-1.1/4-100	n/a	1-1/4" NPT	100	3.38/86	6.85/174	162/1045	20/75
P173912	SEH-20-1.1/4-100-RV3	3 psid/0.2 bar	1-1/4" NPT	100	3.38/86	6.85/174	162/1045	20/75
P169016	SEH-30-1.1/2-100	n/a	1-1/2" NPT	100	3.38/86	8.01/203	225/1452	30/113
P173913	SEH-30-1.1/2-100-RV3	3 psid/0.2 bar	1-1/2" NPT	100	3.38/86	8.01/203	225/1452	30/113
P169017	SEH-50-1.1/2-100	n/a	1-1/2" NPT	100	3.94/100	9.8/249	340/2194	50/188
P173914	SEH-50-1.1/2-100-RV3	3 psid/0.2 bar	1-1/2" NPT	100	3.94/100	9.8/249	340/2194	50/188
P562222	SEH-50-1.1/2-60	n/a	1-1/2" NPT	60	3.94/100	9.8/249	340/2194	50/188
P169018	SEH-50-2-100	n/a	2" NPT	100	3.94/100	9.8/249	340/2194	50/188
P173915	SEH-50-2-100-RV3	3 psid/0.2 bar	2" NPT	100	3.94/100	9.8/249	340/2194	50/188
P169019	SEC-75-2.1/2-100	n/a	2-1/2" NPT	100	5.12/130	10.1/257	400/2581	75/282
P173916	SEC-75-2.1/2-100-RV3	3 psid/0.2 bar	2-1/2" NPT	100	5.12/130	10.1/257	400/2581	75/282
P169020	SEC-100-3-100	n/a	3" NPT	100	5.12/130	11.78/299	500/3226	100/376
P173917	SEC-100-3-100-RV3	3 psid/0.2 bar	3" NPT	100	5.12/130	11.78/299	500/3226	100/376
P562211	SEC-100-3-60	n/a	3" NPT	60	5.12/130	11.78/299	500/3226	100/376
P562212	SEC-100-3-60-RV3	3 psid/0.2 bar	3" NPT	60	5.12/130	11.78/299	500/3226	100/376
P562213	SEC-200-3-100	n/a	3" NPT	100	8.1/206	11.3/287	965/6226	200/752
P562214	SEC-300-4-100	n/a	4" NPT	100	8.1/206	15/381	1370/8839	300/1128
P171861	FIOA 20	n/a	G3/8"	90	2.05/52	3.03/77	29/184	2.7/10
P171869	FIOA 50	n/a	G3/4"	90	2.95/75	3.74/95	54/348	6.6/25
P171877	FIOA 90	n/a	G1"	90	2.95/75	5.55/141	86/554	12.0/45
P171885	FIOA 130	n/a	G1 1/4"	90	3.74/95	7.24/184		17.3/65
P171889	FIOA 175	n/a	G1 1/2"	90	5.51/140	4.45/113	183/1178	22.6/85

NYLON FITTING

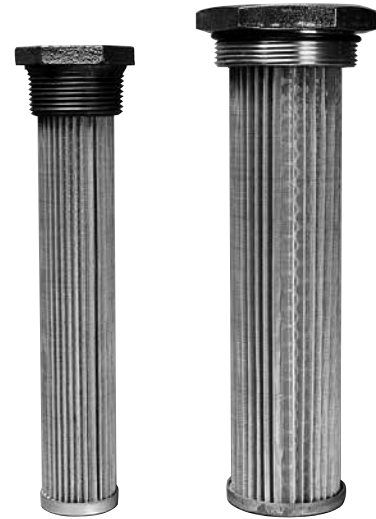
STEEL FITTING

Tank Mounted Strainers

Flow Range: 0-100 gpm / 0-380 lpm

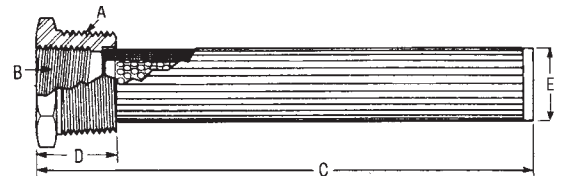
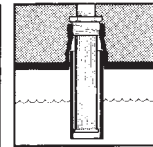
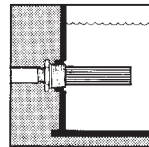
Outlet Port Size: 3/8" NPT to 1 1/4" NPT
or SAE-8 to SAE-20

- 140 Micron Stainless Steel Mesh
- Steel SAE bushing
- Cast iron NPT bushing
- Operating temperatures to 250°F / 121°C
- Relief valve available



Features

Tank mounted strainers offer easy installation. Access to reservoir interior is not needed. You can mount these units through a sidewall or through the tank top and into a standpipe.



Donaldson Part No.	Description	Relief Valve Setting	Wire Mesh Size	Dim. A	Dim. B	Dim. C	Dim. D	Dim. E	Screen Area (sq. in./sq. cm)	Max. Flow (gpm/lpm)
P562270	TM-3-100	n/a	100	3/4" NPT	1/2" NPT	4/102	0.97/25	0.87/22	29/187	3/11
P562274	TM-5-100	n/a	100	1" NPT	1/2" NPT	5.34/136	1.06/27	1.17/30	35/226	5/19
P562275	TM-5-100-RV5	5 psid/0.35 bar	100	1" NPT	1/2" NPT	5.34/136	1.06/27	1.17/30	35/226	5/19
P562256	TM-10-100	n/a	100	1-1/4" NPT	3/4" NPT	8.17/208	1.2/30	1.36/35	64/413	10/38
P562257	TM-10-100-RV5	5 psid/0.35 bar	100	1-1/4" NPT	3/4" NPT	8.17/208	1.2/30	1.36/35	64/413	10/38
P562259	TM-10-60-RV5	5 psid/0.35 bar	60	1-1/4" NPT	3/4" NPT	8.17/208	1.2/30	1.36/35	64/413	10/38
P562260	TM-15-100	n/a	100	1-1/2" NPT	1" NPT	8.2/208	1.22/31	1.66/42	86/555	15/56
P562264	TM-15-100-RV5	5 psid/0.35 bar	100	1-1/2" NPT	1" NPT	8.2/208	1.22/31	1.66/42	86/555	15/56
P562265	TM-15-200-RV5	5 psid/0.35 bar	200	1-1/2" NPT	1" NPT	8.2/208	1.22/31	1.66/42	86/555	15/56
P562266	TM-25-100	n/a	100	2" NPT	1-1/4" NPT	9.04/230	1.35/34	2.12/54	125/806	25/94
P562267	TM-25-100-RV5	5 psid/0.35 bar	100	2" NPT	1-1/4" NPT	9.04/230	1.35/34	2.12/54	125/806	25/94
P562269	TM-25-200-RV5	5 psid/0.35 bar	200	2" NPT	1-1/4" NPT	9.04/230	1.35/34	2.12/54	125/806	25/94
P562271	TM-50-100	n/a	100	3" NPT	2" NPT	9.7/246	1.7/43	3/76	260/1677	50/188
P562272	TM-50-100-RV3	3 psid/0.2 bar	100	3" NPT	2" NPT	9.7/246	1.7/43	3/76	260/1677	50/188
P562273	TM-50-100-RV5	5 psid/0.35 bar	100	3" NPT	2" NPT	9.7/246	1.7/43	3/76	260/1677	50/188
P563306	TM-100-100	n/a	100	4" NPT	3" NPT	11.3/287	1.8/46	4/102	315/2032	100/376
P562255	TM-100-100-RV5	5 psid/0.35 bar	100	4" NPT	3" NPT	11.3/287	1.8/46	4/102	315/2032	100/376
P562253	STM-5-100	n/a	100	1-5/16" -- 12 UN	3/4" -- 16 UN	5.34/136	1.06/27	1.17/30	35/226	5/19
P562254	STM-5-100-RV5	5 psid/0.35 bar	100	1-5/16" -- 12 UN	3/4" -- 16 UN	5.34/136	1.06/27	1.17/30	35/226	5/19
P562247	STM-10-100	n/a	100	1-5/8" -- 12 UN	1-1/16" -- 12 UN	8.17/208	1.2/30	1.36/35	64/413	10/38
P562248	STM-10-100-RV5	5 psid/0.35 bar	100	1-5/8" -- 12 UN	1-1/16" -- 12 UN	8.17/208	1.2/30	1.36/35	64/413	10/38
P562249	STM-15-100	n/a	100	1-7/8" -- 12 UN	1-5/16" -- 12 UN	8.2/208	1.22/31	1.66/42	86/555	15/56
P562250	STM-15-100-RV5	5 psid/0.35 bar	100	1-7/8" -- 12 UN	1-5/16" -- 12 UN	8.2/208	1.22/31	1.66/42	86/555	15/56
P562251	STM-25-100	n/a	100	2-1/2" -- 12 UN	1-5/8" -- 12 UN	9.04/230	1.35/34	2.12/54	125/806	25/94
P562252	STM-25-100-RV5	5 psid/0.35 bar	100	2-1/2" -- 12 UN	1-5/8" -- 12 UN	9.04/230	1.35/34	2.12/54	125/806	25/94

Diffusers

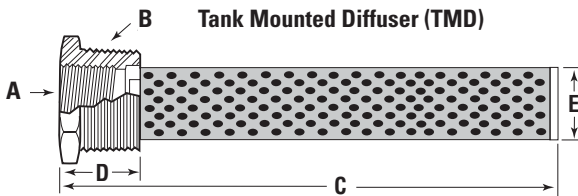
Specifications

- Perforated Steel
- Cast iron bushings (TMD-tank mount)
- Zinc-plated steel (DFD-return line)
- Operating temperatures to 250°F / 121°C

Flow Range: 0-450 gpm / 0-1,710 lpm

Features

Diffusers are highly effective in reducing aeration, foaming, turbulence and noise caused by return lines. Reservoir baffles can usually be eliminated, provided that the holes in the tube are positioned facing away from the pump suction inlet and below the reservoir oil level. Can be vertically or horizontally mounted with discharge side directed away from suction and preferably toward a tank wall or bottom.

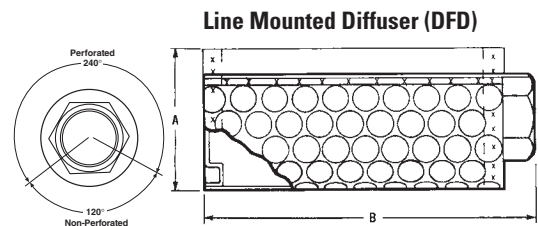


TMD - Tank Mount Diffusers

Donaldson Part No.	Desc.	Rated Flow gpm/l/min	Dim. A Pipe Size	Dim. B Pipe Size	C (in./mm)	D (in./mm)	E (in./mm)
P562281	TMD-5	5/19	1/2" NPT	1" NPT	5.34/135	1.06/28	1.17/29
P562282	TMD-10	10/38	3/4" NPT	1-1/4" NPT	8.17/207	1.2/30	1.36/34
P562283	TMD-15	15/59	1" NPT	1-1/2" NPT	8.2/208	1.22/31	1.66/42
P562284	TMD-25	25/95	1-1/4" NPT	2" NPT	9.04/229	1.35/34	2.12/53
P562285	TMD-50	50/189	2" NPT	3" NPT	9.7/246	1.7/43	3.0/76

DFD - Line Mount Diffusers

Donaldson Part No.	Desc.	Rated Flow gpm/l/min	Pipe Size	A (in./mm)	B (in./mm)
P562287	DFD-30	33/125	3/4" NPT	3.4/86.3	3.0/76
P562288	DFD-60	53/201	1" NPT	3.4/86.3	4.2/107
P562289	DFD-90	93/342	1-1/4" NPT	3.4/86.3	6.5/165
P562290	DFD-120	126/479	1-1/2" NPT	4.5/114.3	6.6/168
P562291	DFD-200	209/794	2" NPT	4.5/114.3	10.3/262
P562292	DFD-250	300/1140	2-1/2" NPT	5.25/133.4	13.0/330
P562293	DFD-300	450/1748	3" NPT	5.25/133.4	15.5/394



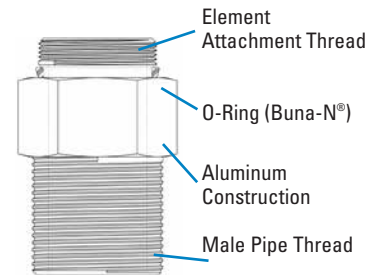
Breathers

Breathers are available in a variety of styles, materials and sizes. Breathers provide clean airflow into reservoirs and other storage containers where there is an exchange of air during changing fluid levels. In high moisture sites or applications with large changes in machine environments, breather caps with pressure relief and vacuum breakers limit air exchange and provide a positive suction head at the pump inlet.



Threaded Adapters for Creating Tank Breathers

Donaldson Part No.	LHA Part No.	Male Pipe Thread	Element Attachment Thread	Length (in./mm)	Material
P173544	GBF-15	3/4" NPT	1"-12 UN	2.50/64	Aluminum
P173545	GBF-50/60	1-1/4" NPT	1-1/2"-16 UN	3.00/76	Aluminum
P562627	GBF-10	3/4" NPT	1-1/8"-16 UN	1.65/42	Steel
P562628	ABGBA	Bayonet Fitting	1-1/8"-16 UN	1.36/35	Technopolymer
P570353	NA	Bayonet Fitting	1-1/2"-16 UN	2.74/70	Technopolymer



Buna-N® is a registered trademark of E. I. DuPont de Nemours and Company.

Direct Replacements for Schroeder Breathers

A replacement for Schroeder part ABF-3/10 is available as a breather+adapter set. For other Schroeder replacements and as an alternative on the ABF-3/10, you may purchase adapters and spin-on filters as separate items.

Schroeder Part No.	Donaldson Spin-On Breather + Adapter Set	Adapter	Spin-On Breather
ABF-3/10	P564425	P562627	P564424
ABF-3/10-F	NA	P562628	P564424
MBF-3-M-P20	NA	P173545	P550386
MBF-10-M-P20	NA	P173545	P550388

Replacement for Schroeder ABF3/10

P564425 Spin-On Breather & Adapter

P564424 Spin-On Breather only

Specifications:

Diameter: 3.69" / 93.7mm
 Height: 3.6" / 91mm
 Threads on adaptor: 3/4"-14 NPT



Spin-On Breather Filters

Donaldson Part No.	Use with Adapter	Micron Rating	Length (in./mm)	Diameter (in./mm)	Flow (scfm/gpm/lpm)
P564424	P562627 or P562628	10 micron nom.	3.6/91	3.7/94	15/112/421
P556005	P562627 or P562628	10 micron nom.	5.4/137	3.7/94	23/172/647
P551551	P173544	10 micron nom.	5.4/137	3.7/94	23/172/647
P560693	P173544	10 micron abs.	5.4/137	3.7/94	23/172/647
P564357	P173544	5 micron abs.	7.9/200	3.7/94	28/216/812
P179089	P173544	10 micron abs.	7.9/200	3.7/94	28/216/812
P169430	P173545	3 micron abs.	6.7/170	5.0/127	35/262/985
P167832	P173545	3 micron abs.	10.7/272	5.0/127	42/314/1181
P550386	P173545	3 micron nom.	6.7/170	5.0/127	35/262/985
P550250	P173545	3 micron nom.	10.7/272	5.0/127	42/314/1181
P167162	P173545	5 micron abs.	6.7/170	5.0/127	59/440/1654
P165762	P173545	5 micron abs.	10.7/272	5.0/127	64/479/1801
P550388	P173545	10 micron nom.	6.7/170	5.0/127	59/440/1654
P550251	P173545	10 micron nom.	10.7/272	5.0/127	64/479/1801
P165875	P173545	10 micron abs.	6.7/170	5.0/127	59/440/1654
P165876	P173545	10 micron abs.	10.7/272	5.0/127	64/479/1801