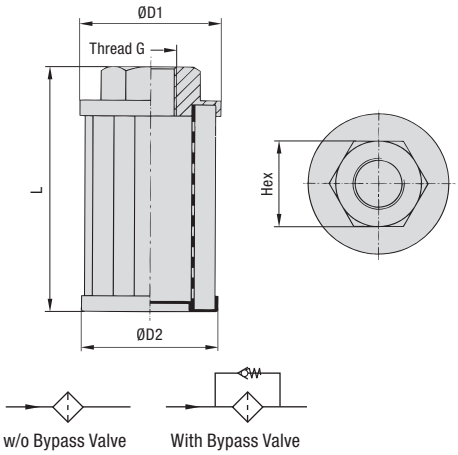
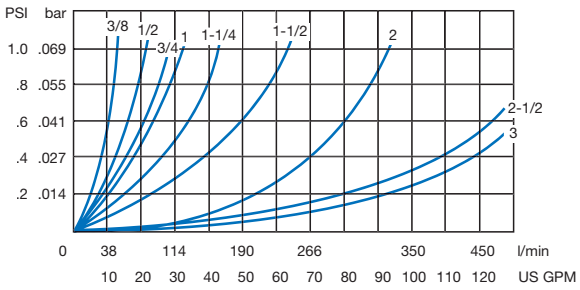
Suction Strainer ▪ Type SUS (Polyamide End Cap)



Flow Characteristics

Nominal Flow Rate vs. Pressure Drop ΔP
The following characteristics are valid for Mineral oils with a mass density of 0,85 kg/dm³ and a kinematic viscosity of 30 mm²/s (cSt) at +38 °C / +100 °F.



Characteristics

Designed as in-tank suction strainer elements for direct installation into suction lines of pumps; should always be installed below the minimum fluid level of the reservoir

Features
- Available with female NPT thread (ANSI B1.20.1) or female BSP thread (ISO 228)
- Operating temperature range: -20 °C ... +100 °C / -4 °F ... +212 °F

Media Compatibility
- Suitable for use with Mineral and Petroleum based hydraulic fluids (HL and HLP)

Materials
- Threaded end cap made of glass-fibre reinforced Polyamide (PA); see page E39 for version with Aluminium end cap
- Lower end cap and support tube made of Steel, zinc-plated
- Standard filter material is Stainless Steel Mesh (125 µm); alternative micron ratings of 60 µm and 250 µm on request

Consult STAUFF for alternative materials.

Options
- Integrated bypass valve with an opening pressure of 0,2 bar (3 PSI) to reduce the risks of high-pressure drops that can be caused by contaminated strainer elements or high-viscosity fluids

Special sizes, designs, materials and configurations are available on request. Consult STAUFF for details.

Dimensions and Technical Data (Female NPT Threaded Version)

Group Size	Thread G	Dimensions (mm/in) ØD1	ØD2	L	Hex	Filter Surface	Max. Flow Rate
050 - N06F - 067	3/8 NPT	50	49	67	26	296 cm²	12 l/min
		1.97	1.93	2.64	1.02	46 in²	3.1 US GPM
050 - N06F - 090	3/8 NPT	50	49	90	26	430 cm²	12 l/min
		1.97	1.93	3.54	1.02	67 in²	3.1 US GPM
050 - N08F - 105	1/2 NPT	50	49	105	26	518 cm²	15 l/min
		1.97	1.93	4.13	1.02	80 in²	3.9 US GPM
068 - N12F - 105	3/4 NPT	68	66	105	34	676 cm²	25 l/min
		2.68	2.60	4.13	1.34	105 in²	6.5 US GPM
068 - N16F - 140	1 NPT	68	66	140	42	930 cm²	50 l/min
		2.68	2.60	5.51	1.65	144 in²	13.0 US GPM
088 - N20F - 140	1-1/4 NPT	88	85	140	50	1172 cm²	65 l/min
		3.46	3.35	5.51	1.97	182 in²	16.9 US GPM
088 - N24F - 140	1-1/2 NPT	88	85	140	60	1172 cm²	140 l/min
		3.46	3.35	5.51	2.36	182 in²	36.4 US GPM
102 - N24F - 200	1-1/2 NPT	102	100	200	72	2427 cm²	140 l/min
		4.02	3.94	7.87	2.83	376 in²	36.4 US GPM
102 - N32F - 260	2 NPT	102	100	260	72	3249 cm²	230 l/min
		4.02	3.94	10.24	2.83	504 in²	59.8 US GPM
131 - N40F - 212	2-1/2 NPT	131	128	212	86	2748 cm²	340 l/min
		5.16	5.04	8.35	3.39	426 in²	88.4 US GPM
131 - N48F - 272	3 NPT	131	128	272	96	3626 cm²	400 l/min
		5.16	5.04	10.71	3.78	562 in²	104 US GPM

See page E39 for version with Polyamide (PA) end cap.

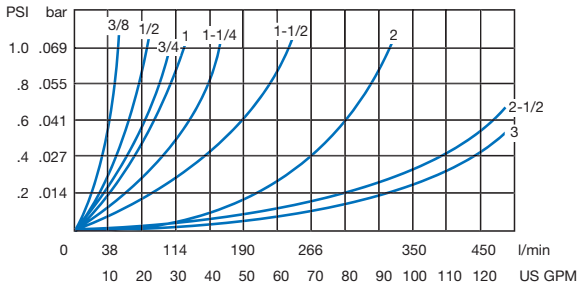
Dimensions and Technical Data (Female BSP Threaded Version)

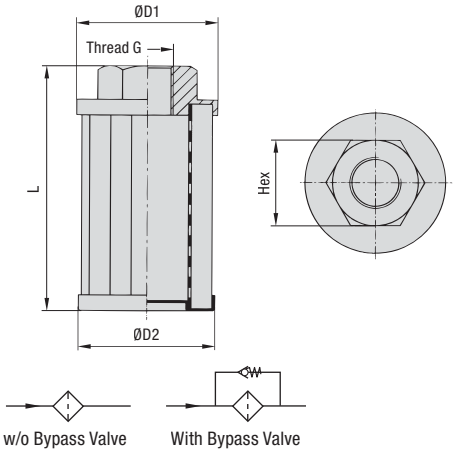
Group Size	Thread G	Dimensions (mm/in) ØD1	ØD2	L	Hex	Filter Surface	Max. Flow Rate
040 - B06F - 075	G3/8 BSP	39,5	38,5	75	22	279 cm²	12 l/min
		1.56	1.53	2.93	.87	43 in²	3.1 US GPM
050 - B06F - 067	G3/8 BSP	50	49	67	26	296 cm²	12 l/min
		1.97	1.93	2.64	1.02	46 in²	3.1 US GPM
050 - B08F - 105	G1/2 BSP	50	49	105	26	518 cm²	15 l/min
		1.97	1.93	4.13	1.02	80 in²	3.9 US GPM
068 - B12F - 105	G3/4 BSP	68	66	105	34	676 cm²	25 l/min
		2.68	2.60	4.13	1.34	105 in²	6.5 US GPM
068 - B16F - 140	G1 BSP	68	66	140	42	930 cm²	50 l/min
		2.68	2.60	5.51	1.65	144 in²	13.0 US GPM
088 - B20F - 140	G1-1/4 BSP	88	85	140	50	1172 cm²	65 l/min
		3.46	3.35	5.51	1.97	182 in²	16.9 US GPM
088 - B24F - 140	G1-1/2 BSP	88	85	140	60	1172 cm²	140 l/min
		3.46	3.35	5.51	2.36	182 in²	36.4 US GPM
102 - B24F - 200	G1-1/2 BSP	102	100	200	72	2427 cm²	140 l/min
		4.02	3.94	7.87	2.83	376 in²	36.4 US GPM
102 - B32F - 200	G2 BSP	102	100	200	72	2427 cm²	230 l/min
		4.02	3.94	7.87	2.83	376 in²	59.8 US GPM
102 - B32F - 225	G2 BSP	102	100	225	72	2811 cm²	230 l/min
		4.02	3.94	8.86	2.83	436 in²	59.8 US GPM
102 - B32F - 260	G2 BSP	102	100	260	72	3249 cm²	230 l/min
		4.02	3.94	10.24	2.83	504 in²	59.8 US GPM
102 - B32F - 300	G2 BSP	102	100	300	72	3798 cm²	230 l/min
		4.02	3.94	11.81	2.83	589 in²	59.8 US GPM
131 - B40F - 191	G2-1/2 BSP	131	128	191	86	2430 cm²	340 l/min
		5.16	5.04	10.24	3.39	377 in²	88.4 US GPM
131 - B40F - 212	G2-1/2 BSP	131	128	212	86	2748 cm²	340 l/min
		5.16	5.04	8.35	3.39	426 in²	88.4 US GPM
131 - B48F - 272	G3 BSP	131	128	272	96	3626 cm²	400 l/min
		5.16	5.04	10.71	3.78	562 in²	104 US GPM
150 - B32F - 151	G2 BSP	150	145	151	70	1812 cm²	400 l/min
		5.91	5.71	5.94	2.76	281 in²	104 US GPM

Suction Strainers ▪ Type SUS (Aluminium End Cap)

Flow Characteristics

Nominal Flow Rate vs. Pressure Drop ΔP
The following characteristics are valid for Mineral oils with a mass density of 0,85 kg/dm³ and a kinematic viscosity of 30 mm²/s (cSt) at +38 °C / +100 °F.





Characteristics

Designed as in-tank suction strainer elements for direct installation into suction lines of pumps; should always be installed below the minimum fluid level of the reservoir

Features
- Available with female NPT thread (ANSI B1.20.1)
- Operating temperature range:
  -20 °C ... +100 °C / -4 °F ... +212 °F

Media Compatibility
- Suitable for use with Mineral and Petroleum based hydraulic fluids (HL and HLP)

Materials
- Threaded end cap made of Aluminium; see page E38 for version with Polyamide (PA) end cap
- Lower end cap and support tube made of Steel, zinc-plated
- Filter material made of Stainless Steel Mesh (125 µm); alternative micron ratings of 60 µm and 250 µm on request

Consult STAUFF for alternative materials.

Options
- Integrated bypass valve with an opening pressure of 0,2 bar (3 PSI) to reduce the risks of high-pressure drops that can be caused by contaminated strainer elements or high-viscosity fluids

Special sizes, designs, materials and configurations are available on request. Consult STAUFF for details.

Dimensions and Technical Data (Female NPT Threaded Version)

Group Size	Thread G	Dimensions (mm/in) ØD1	ØD2	L	Hex	Filter Surface	Max. Flow Rate
050 - N06F - 067	3/8 NPT	50	49	67	26	296 cm²	12 l/min
		1.97	1.93	2.64	1.02	46 in²	3.1 US GPM
050 - N06F - 090	3/8 NPT	50	49	90	26	430 cm²	12 l/min
		1.97	1.93	3.54	1.02	67 in²	3.1 US GPM
050 - N08F - 105	1/2 NPT	50	49	105	26	518 cm²	15 l/min
		1.97	1.93	4.13	1.02	80 in²	3.9 US GPM
068 - N12F - 105	3/4 NPT	68	66	105	34	676 cm²	25 l/min
		2.68	2.60	4.13	1.34	105 in²	6.5 US GPM
068 - N16F - 140	1 NPT	68	66	140	42	930 cm²	50 l/min
		2.68	2.60	5.51	1.65	144 in²	13.0 US GPM
088 - N20F - 195	1-1/4 NPT	88	85	195	60	1709 cm²	65 l/min
		3.46	3.35	7.68	2.36	265 in²	16.9 US GPM
088 - N24F - 226	1-1/2 NPT	88	85	226	60	2012 cm²	140 l/min
		3.46	3.35	8.90	2.36	312 in²	36.4 US GPM
088 - N24F - 260	1-1/2 NPT	88	85	260	60	2344 cm²	140 l/min
		3.46	3.35	10.24	2.36	363 in²	36.4 US GPM
088 - N32F - 260	2 NPT	88	85	260	70	2344 cm²	230 l/min
		3.46	3.35	10.24	2.76	363 in²	59.8 US GPM
150 - N40F - 213	2-1/2 NPT	150	145	213	90	2741 cm²	340 l/min
		5.91	5.71	8.39	3.54	425 in²	88.4 US GPM
150 - N48F - 272	3 NPT	150	145	272	100	3625 cm²	400 l/min
		5.91	5.71	10.71	3.94	562 in²	104 US GPM

See page E38 for version with Aluminium end cap.

Order Codes

SUS - A - 088 - N24F - 226 - 125 - 0
① ② ③ ④ ⑤

① Type
Suction Strainer for direct installation into suction lines of pumps	**SUS**

② Material of Threaded End Cap
Glass-fibre reinforced Polyamide	**P**
Aluminium (for female NPT threaded version only)	**A**

③ Group Size
Select 'Group Size' from corresponding column in dimensional tables

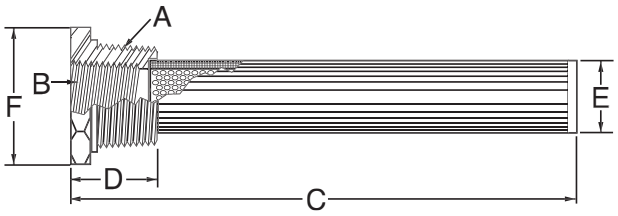
The group size is defined by the diameter ØD1 of the threaded end cap, the thread code (type and size) and the total length of the suction strainer element (e.g. 088-N24F-226).

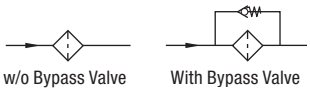
④ Filter Material / Micron Rating
Stainless Steel Mesh, 125 µm (standard option)	**125**
Stainless Steel Mesh, 60 µm	**060**
Stainless Steel Mesh, 250 µm	**250**

Consult STAUFF for alternative materials / micron ratings.

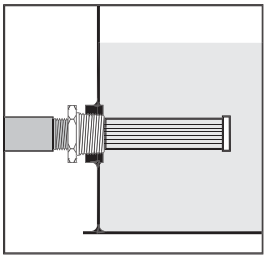
⑤ Bypass Option
Without bypass valve (standard option)	**0**
Integrated bypass valve with opening pressure of 0,2 bar (3 PSI)	**3**

Suction Strainer ▪ Type TMF (NPT Tank Mounted)





Mounting Information



Characteristics

Designed as in-tank suction strainer elements for direct installation into suction lines of pumps; should always be installed below the minimum fluid level of the reservoir

Features
- Equipped with female and male NPT thread (ANSI B1.20.1)
- Operating temperature up to +120 °C / +250 °F

Consult STAUFF for custom adaptors.

Media Compatibility
- Suitable for use with Mineral and Petroleum based hydraulic fluids (HL and HLP)

Materials
- Threaded end cap made of Cast Iron
- Standard filter material is Stainless Steel Mesh (125 µm); alternative micron ratings on request

Consult STAUFF for alternative materials.

Options
- Integrated bypass valve with an opening pressure of 0,35 bar (5 PSI) to reduce the risks of high-pressure drops that can be caused by contaminated strainer elements or high-viscosity fluids

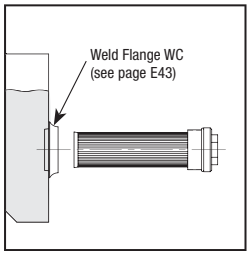
Special sizes, designs, materials and configurations are available on request. Consult STAUFF for details.

Order Codes, Dimensions and Technical Data

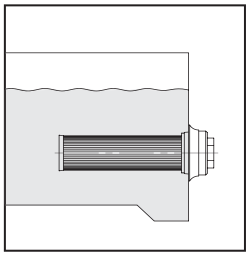
Order Codes w/o Bypass	Order Codes Bypass 0,35 bar / 5 PSI	Thread A	Thread B	Dimensions (mm/in) C	D	E	Hex F	Filter Surface	Max. Flow Rate
TMF - 03 - 0	TMF - 03 - 5	3/4 NPT	1/2 NPT	102	25	22	27	258 cm²	19 l/min
				4.02	0.98	0.87	1.06	40 in²	5 US GPM
TMF - 05 - 0	TMF - 05 - 5	1 NPT	1/2 NPT	135	27	29	41	258 cm²	19 l/min
				5.31	1.06	1.14	1.61	40 in²	5 US GPM
TMF - 10 - 0	TMF - 10 - 5	1-1/4 NPT	3/4 NPT	207	30	34	46	432 cm²	38 l/min
				8.15	1.18	1.34	1.81	67 in²	10 US GPM
TMF - 15 - 0	TMF - 15 - 5	1-1/2 NPT	1 NPT	208	31	42	55	554 cm²	57 l/min
				8.19	1.22	1.65	2.17	86 in²	15 US GPM
TMF - 25 - 0	TMF - 25 - 5	2 NPT	1-1/4 NPT	230	35	54	65	1025 cm²	95 l/min
				9.06	1.38	2.13	2.56	159 in²	25 US GPM
TMF - 50 - 0	TMF - 50 - 5	3 NPT	2 NPT	246	44	76	84	1625 cm²	189 l/min
				9.69	1.73	2.99	3.31	252 in²	50 US GPM
TMF - 100 - 0	TMF - 100 - 5	4 NPT	3 NPT	287	46	101	120	2032 cm²	378 l/min
				11.30	1.81	3.98	4.72	315 in²	100 US GPM

Suction Strainers ▪ Type TMF (SAE O-Ring Tank Mounted)

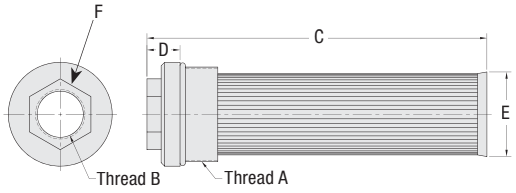
Mounting Information

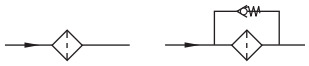


1. Weld Flange to Tank.



2. Screw Strainer into Tank.





Order Codes, Dimensions and Technical Data

Order Codes w/o Bypass	Order Codes Bypass 0,35 bar / 5 PSI	Thread A	Thread B	Dimensions (mm/in) C	D	E	Hex F	Filter Surface	Max. Flow Rate
TMF - 1625 - 0 - 0	TMF - 1625 - 0 - 5	2-1/2–12 UNF	1-5/16–12 UNF	229	19	58	54	580 cm²	34 l/min
				9.02	.75	2.28	2.13	90 in²	9 US GPM
TMF - 2025 - 0 - 0	TMF - 2025 - 0 - 5	2-1/2–12 UNF	1-5/8–12 UNF	229	19	58	54	580 cm²	53 l/min
				9.02	.75	2.28	2.13	90 in²	14 US GPM
TMF - 1834 - 0 - 0	TMF - 1834 - 0 - 5	3-3/8–12 UNF	1-7/8–12 UNF	224	23	80	64	1484 cm²	80 l/min
				8.82	.91	3.15	2.52	230 in²	21 US GPM
TMF - 2534 - 0 - 0	TMF - 2534 - 0 - 5	3-3/8–12 UNF	2-1/2–12 UNF	234	25	80	76	1484 cm²	148 l/min
				9.29	.98	3.15	2.99	230 in²	39 US GPM

Characteristics

Designed as in-tank suction strainer elements for direct installation into suction lines of pumps; should always be installed below the minimum fluid level of the reservoir

Features

- Equipped with female and male SAE O-ring thread as per SAE J514 for leak-free installation (O-ring included)
- Weld Flange WC supplied separately (see page E41)
- Operating temperature up to +100 °C / +212 °F

Consult STAUFF for custom adaptors.

Media Compatibility

- Suitable for use with Mineral and Petroleum based hydraulic fluids (HL and HLP)

Materials

- Threaded end cap made of Cast Iron
- O-ring made of NBR (Buna-N®)
- Standard filter material is Stainless Steel Mesh (125 µm); alternative micron ratings on request

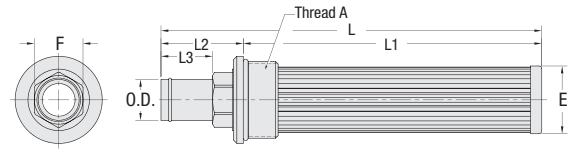
Consult STAUFF for alternative materials.

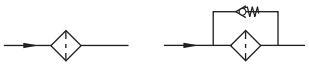
Options

- Integrated bypass valve with an opening pressure of 0,35 bar (5 PSI) to reduce the risks of high-pressure drops that can be caused by contaminated strainer elements or high-viscosity fluids

Special sizes, designs, materials and configurations are available on request. Consult STAUFF for details.

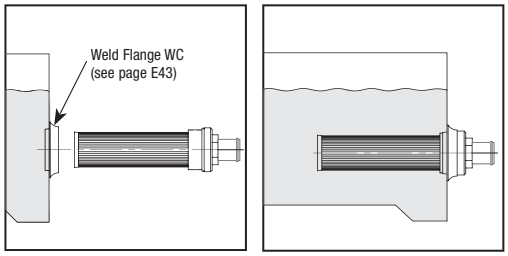
Suction Strainer ▪ Type TMF (Hose Barb Tank Mounted)





w/o Bypass Valve | With Bypass Valve

Mounting Information



1. Weld Flange to Tank.
2. Screw Strainer into Tank.

Characteristics

Designed as in-tank suction strainer elements for direct installation into suction lines of pumps; should always be installed below the minimum fluid level of the reservoir

Features

- Equipped with male SAE O-ring thread as per SAE J514 for leak-free installation (O-ring included)
- Hose barb connection up to 2 in
- Weld Flange WC supplied separately (see page E41)
- Operating temperature up to +100 °C / +212 °F

Consult STAUFF for custom adaptors.

Media Compatibility

- Suitable for use with Mineral and Petroleum based hydraulic fluids (HL and HLP)

Materials

- Threaded end cap made of Steel, zinc plated
- O-ring made of NBR (Buna-N®)
- Standard filter material is Stainless Steel Mesh (125 µm); alternative micron ratings on request

Consult STAUFF for alternative materials.

Options

- Integrated bypass valve with an opening pressure of 0,35 bar (5 PSI) to reduce the risks of high-pressure drops that can be caused by contaminated strainer elements or high-viscosity fluids

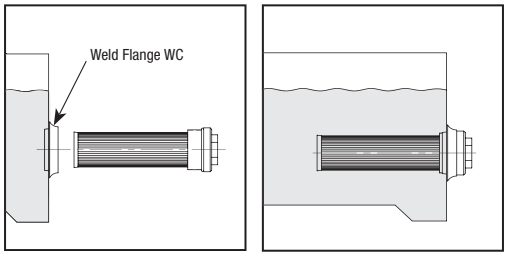
Special sizes, designs, materials and configurations are available on request. Consult STAUFF for details.

Order Codes, Dimensions and Technical Data

Order Codes		Thread A	Dimensions (mm/in)						
w/o Bypass	Bypass 0,35 bar / 5 PSI		O.D.	L	L1	L2	L3	E	Hex F
TMF - 1017HB - 0 - 0	TMF - 1017HB - 0 - 5	1-7/8–12 UNF	25,4	236	182	51	32	42	32
			1.00	9.29	7.17	2.01	1.26	1.65	1.26
TMF - 1225HB - 0 - 0	TMF - 1225HB - 0 - 5	2-1/2–12 UNF	31,8	254	203	51	32	54	38
			1.25	10.00	7.99	2.01	1.26	2.13	1.50
TMF - 1234HB - 0 - 0	TMF - 1234HB - 0 - 5	3-3/8–12 UNF	31,8	261	198	64	38	82	51
			1.25	10.28	7.80	2.52	1.50	3.23	2.01
TMF - 1534HB - 0 - 0	TMF - 1534HB - 0 - 5	3-3/8–12 UNF	38,1	261	198	64	38	82	51
			1.50	10.28	7.80	2.52	1.50	3.23	2.01
TMF - 2034HB - 0 - 0	TMF - 2034HB - 0 - 5	3-3/8–12 UNF	50,8	274	199	76	51	82	63
			2.00	10.79	7.83	2.99	2.01	3.23	2.48

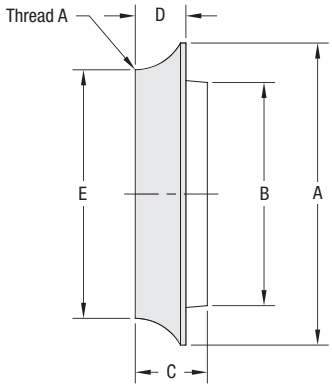
Weld Flange ▪ Type WC

Mounting Information



1. Weld Flange to Tank.

2. Screw Strainer into Tank.



Order Codes, Dimensions and Technical Data

Order Codes w/o Bypass	Thread A	Dimensions (mm/in) A	B	C	D	E
WC - 1017	1-7/8–12 UNF	76	57	19	13	60
		2.99	2.24	.75	.51	2.36
WC - 1225	2-1/2–12 UNF	89	52	21	15	73
		3.50	2.05	.83	.59	2.87
WS - 1634	3-3/8–12 UNF	118	93	25	21	100
		4.65	3.66	.98	.83	3.94

Characteristics

Used for a leak-free weld installation of tank mounted suction strainers with SAE O-ring thread

Features

- Equipped with female SAE O-ring thread as per SAE J514
- Designed for minimum weld distorsion
- Pilot minimised installation setup
- Labor and time saving

Consult STAUFF for custom adaptors.

Materials

- Weld Flange made of Forged Steel

Consult STAUFF for alternative materials.

Suction Flanges ▪ Type SF

Characteristics

Designed to seal suction lines passing through the top plate of the hydraulic reservoir and thus allowing access for easy inspection, cleaning and removal of suction elements

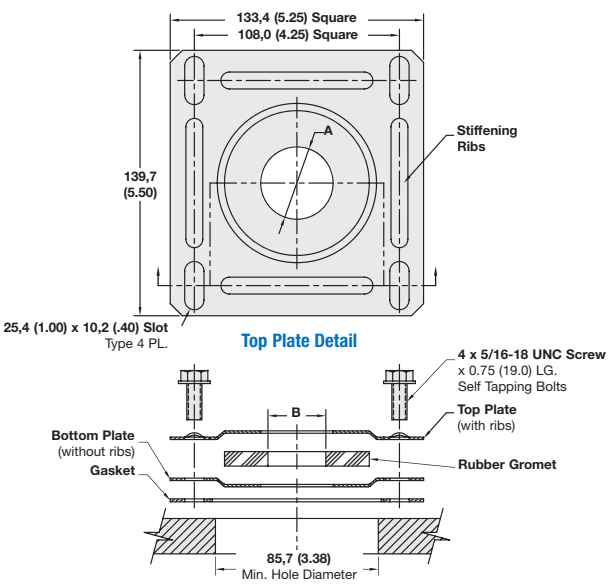
Scope of Delivery / Materials

- 1 top plate made of Steel
- 1 bottom plate made of Steel
- 1 seal plate / gasket made of treated paper
- 1 rubber grommet made of NBR (Buna-N®)
- 4 thread forming screws (UNC 5/16-18)

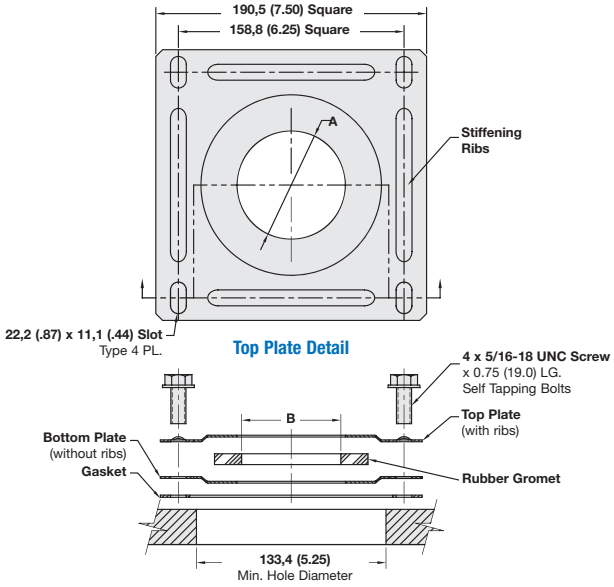
Order Codes

Order Code	Nominal Bore (in)	Dimensions (mm/in) A	B
SF - 050	1/2	38,1	20
		1.50	.79
SF - 075	3/4	38,1	25
		1.50	.98
SF - 100	1	38,1	30
		1.50	1.18
SF - 125	1-1/4	50,8	41
		2.00	1.61
SF - 150	1-1/2	50,8	46
		2.00	1.81
SF - 200	2	50,8	58
		2.50	2.28
SF - 250	2-1/2	76,2	70
		3.00	2.76
SF - 300	3	95,3	89
		3.75	3.50

Dimensions



SF - 50 ... 200



SF - 250 ... 300

Dimensional drawings: All dimensions in mm (in).