

Summary

The Winflo Suction Diffuser mounts to the suction side of the pump and is designed to remove any foreign matter that may be hazardous to the pump or other system components while providing the proper flow conditions to the pump.

Features

- Reduces installation costs by replacing the strainer, long radius elbow, pipe reducers, and entry pipe on the suction side of the pump.
- Integral flow straightening vanes ensure uniform flow to the pump resulting in reduced stress and vibration.
- Direct mounting in horizontal or vertical positions.
- Perforated stainless steel screen with separate disposable 20 mesh start up strainer for added protection during system start up.
- Cast supporting pads on the diffuser body to allow easy mounting of standard I.D. support foot.
- Tapping for inlet and outlet differential pressure ports.
- Drain plug for easy routine cleaning.



Application



Industrial



Irrigation



Commercial



Oil

Specifications

Parameter	Value
Max. Working Pressure	16 Bar, 25 Bar
Working Temperature	-20° C to 120° C
Connections	Flanged (as per BS EN1092-2) ^[1]
Start-up Strainer Mesh	20 Mesh
Screen Hole Diameter	3.2 mm (0.125") ^[2]
Paint Colour	RAL 5002

[1] Also available with ASME B16.1 flanges, and grooved piping connections.

[2] Alternative screen and mesh sizes are available upon request.

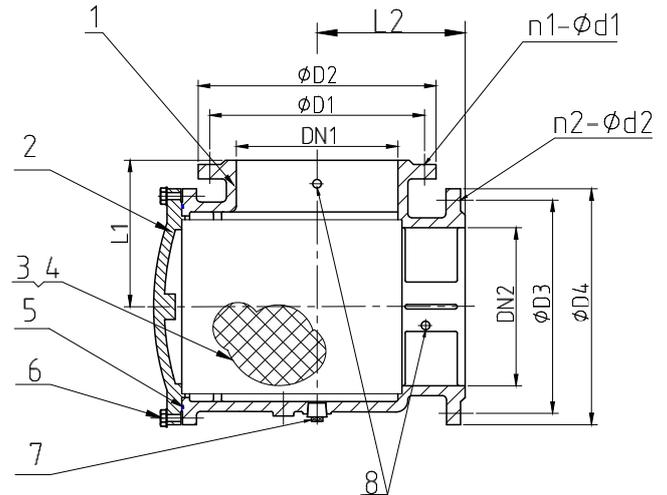
Certifications & Standards



- Flange Connection Standard: BS EN1092-2
- Pressure Test Standard: BS EN12266-1

Components

ID	Component	Material of Construction
1	Body	Ductile Iron EN GJS-450-10 JS 1050
2	Cover	Ductile Iron EN GJS-450-10 JS 1050
3	Screen	Stainless Steel 304
4	Start Up Screen	Stainless Steel 304
5	Cover O-Ring	EPDM
6	Hex Head Bolt	Carbon Steel WCB
7	Drain Plug	Carbon Steel WCB
8	Pressure Port Plugs	Carbon Steel WCB



Sizes

PN 16 Models

Model	Size [DN1xDN2]	Dimensions [mm]								Drain Plug
		L1	L2	ØD1	ØD2	n1-Ød1	ØD3	ØD4	n2-Ød2	
SD050050DWF16	50x50	114.3	114.3	125	165	4-Ø19	125	165	4-Ø19	¾ NPT
SD065050DWF16	65x50	127	127	145	185	4-Ø19	125	165	4-Ø19	¾ NPT
SD065065DWF16	65x65	127	127	145	185	4-Ø19	145	185	4-Ø19	¾ NPT
SD080050DWF16	80x50	139.7	114.3	160	200	8-Ø19	125	165	4-Ø19	¾ NPT
SD080065DWF16	80x65	139.7	139.7	160	145	8-Ø19	145	185	4-Ø19	¾ NPT
SD080080DWF16	80x80	139.7	139.7	160	160	8-Ø19	160	200	8-Ø19	¾ NPT
SD100080DWF16	100x80	165	165	180	160	8-Ø19	160	200	8-Ø19	1 NPT
SD100100DWF16	100x100	165	165	180	180	8-Ø19	180	220	8-Ø19	1 NPT
SD125100DWF16	125x100	190.5	190.5	210	180	8-Ø19	180	220	8-Ø19	1 NPT
SD125125DWF16	125x125	190.5	190.5	210	210	8-Ø19	210	250	8-Ø19	1 NPT
SD150100DWF16	150x100	203	165	210	180	8-Ø23	180	220	8-Ø19	1 NPT
SD150125DWF16	150x125	203	203	240	210	8-Ø23	210	250	8-Ø19	1 NPT
SD150150DWF16	150x150	203	203	240	240	8-Ø23	240	285	8-Ø23	1 NPT
SD200125DWF16	200x125	192	228.6	295	340	12-Ø23	210	250	8-Ø19	1 NPT
SD200150DWF16	200x150	228.6	203.2	295	340	12-Ø23	240	285	8-Ø23	1 NPT
SD200200DWF16	200x200	228.6	228.6	295	340	12-Ø23	295	340	12-Ø23	1 ¼ NPT
SD250200DWF16	250x200	279.4	228.6	355	405	12-Ø28	295	340	12-Ø23	1 ¼ NPT
SD250250DWF16	250x250	279.4	279.4	355	405	12-Ø28	355	405	12-Ø28	1 ¼ NPT
SD300200DWF16	300x200	280	280	410	460	12-Ø28	295	340	12-Ø23	1 ¼ NPT
SD300250DWF16	300x250	304.8	279.4	410	460	12-Ø28	355	405	12-Ø28	1 ¼ NPT
SD300300DWF16	300x300	304.8	304.8	410	460	12-Ø28	410	460	12-Ø28	1 ¼ NPT
SD350250DWF16	350x250	318	328	470	520	16-Ø28	355	405	12-Ø28	1 ¼ NPT
SD350300DWF16	350x300	318	328	470	520	16-Ø28	410	460	12-Ø28	1 ¼ NPT
SD350350DWF16	350x350	318	328	470	520	16-Ø28	470	520	16-Ø28	1 ¼ NPT
SD400300DWF16	400x300	334	364	525	580	16-Ø31	410	460	12-Ø28	1 ¼ NPT
SD400350DWF16	400x350	334	364	525	580	16-Ø31	470	520	16-Ø28	1 ¼ NPT
SD400400DWF16	400x400	334	364	525	580	16-Ø31	525	580	16-Ø31	1 ¼ NPT
SD450350DWF16	450x350	370	389	585	640	20-Ø31	470	520	16-Ø28	1 ¼ NPT
SD450400DWF16	450x400	370	389	585	640	20-Ø31	525	580	16-Ø31	1 ¼ NPT
SD450450DWF16	450x450	370	389	585	640	20-Ø31	585	640	20-Ø31	1 ¼ NPT
SD500400DWF16	500x400	406	428	650	715	20-Ø34	525	580	16-Ø31	1 ¼ NPT
SD500450DWF16	500x450	406	428	650	715	20-Ø34	585	640	20-Ø31	1 ¼ NPT
SD500500DWF16	500x500	406	428	650	715	20-Ø34	650	715	20-Ø34	1 ¼ NPT
SD600450DWF16	600x450	500	490	770	840	20-Ø37	585	640	20-Ø31	1 ½ NPT
SD600500DWF16	600x500	500	490	770	840	20-Ø37	650	715	20-Ø34	1 ½ NPT
SD600600DWF16	600x600	500	490	770	840	20-Ø37	770	840	20-Ø37	1 ½ NPT

Notes

- Non-standard sizes not listed above are available upon request in fabricated carbon steel for sizes of DN100-DN1000 in PN16 and PN25.
- Tolerance of L1 and L2 for sizes up to DN300x300 is +/- 3 mm, sizes above are +/- 5mm.

PN 25 Models

Model	Size [DN1xDN2]	Dimensions [mm]								Drain Plug
		L1	L2	ØD1	ØD2	n1-Ød1	ØD3	ØD4	n2-Ød2	
SD050050DWF25	50x50	113.3	113.3	125	165	4-Ø19	125	165	4-Ø19	¾ NPT
SD065050DWF25	65x50	127	126	145	185	8-Ø19	125	165	4-Ø19	¾ NPT
SD065065DWF25	65x65	127	126	145	185	8-Ø19	145	185	8-Ø19	¾ NPT
SD080050DWF25	80x50	136.7	113.3	160	200	8-Ø19	125	165	4-Ø19	¾ NPT
SD080065DWF25	80x65	136.7	138.7	160	200	8-Ø19	145	185	8-Ø19	¾ NPT
SD080080DWF25	80x80	136.7	136.7	160	200	8-Ø19	160	200	8-Ø19	¾ NPT
SD100080DWF25	100x80	160	162	190	235	8-Ø23	160	200	8-Ø19	1 NPT
SD100100DWF25	100x100	160	160	190	235	8-Ø23	190	235	8-Ø23	1 NPT
SD125100DWF25	125x100	183.5	185.5	220	270	8-Ø28	190	235	8-Ø23	1 NPT
SD125125DWF25	125x125	183.5	183.5	220	270	8-Ø28	220	270	8-Ø28	1 NPT
SD150100DWF25	150x100	197	160	250	300	8-Ø28	190	235	8-Ø23	1 NPT
SD150125DWF25	150x125	197	196	250	300	8-Ø28	220	270	8-Ø28	1 NPT
SD150150DWF25	150x150	197	197	250	300	8-Ø28	250	300	8-Ø28	1 NPT
SD200125DWF25	200x125	184	221.6	310	360	12-Ø28	220	270	8-Ø28	1 NPT
SD200150DWF25	200x150	220.6	197.2	310	360	12-Ø28	250	300	8-Ø28	1 NPT
SD200200DWF25	200x200	220.6	220.6	310	360	12-Ø28	310	360	12-Ø28	1 ¼ NPT
SD250200DWF25	250x200	271.9	220.6	370	425	12-Ø31	310	360	12-Ø28	1 ¼ NPT
SD250250DWF25	250x250	271.9	271.9	370	425	12-Ø31	370	425	12-Ø31	1 ¼ NPT
SD300200DWF25	300x200	275.5	272	430	485	16-Ø31	310	360	12-Ø28	1 ¼ NPT
SD300250DWF25	300x250	300.3	271.9	430	485	16-Ø31	370	425	12-Ø31	1 ¼ NPT
SD300300DWF25	300x300	300.3	300.3	430	485	16-Ø31	430	485	16-Ø31	1 ¼ NPT
SD350250DWF25	350x250	312	320.5	490	555	16-Ø34	370	425	12-Ø31	1 ¼ NPT
SD350300DWF25	350x300	312	323.5	490	555	16-Ø34	430	485	16-Ø31	1 ¼ NPT
SD350350DWF25	350x350	312	322	490	555	16-Ø34	490	555	16-Ø34	1 ¼ NPT
SD400300DWF25	400x300	328	359.5	550	620	16-Ø37	430	485	16-Ø31	1 ¼ NPT
SD400350DWF25	400x350	328	358	550	620	16-Ø37	490	555	16-Ø34	1 ¼ NPT
SD400400DWF25	400x400	328	358	550	620	16-Ø37	550	620	16-Ø37	1 ¼ NPT
SD450350DWF25	450x350	364.5	383	600	670	20-Ø37	490	555	16-Ø34	1 ¼ NPT
SD450400DWF25	450x400	364.5	383	600	670	20-Ø37	550	620	16-Ø37	1 ¼ NPT
SD450450DWF25	450x450	364.5	383.5	600	670	20-Ø37	600	670	20-Ø37	1 ¼ NPT
SD500400DWF25	500x400	400.5	422	660	730	20-Ø37	550	620	16-Ø37	1 ¼ NPT
SD500450DWF25	500x450	400.5	422.5	660	730	20-Ø37	600	670	20-Ø37	1 ¼ NPT
SD500500DWF25	500x500	400.5	422.5	660	730	20-Ø37	660	730	20-Ø37	1 ¼ NPT

Notes

- Non-standard sizes not listed above are available upon request in fabricated carbon steel for sizes of DN100-DN1000 in PN16 and PN25.
- Tolerance of L1 and L2 for sizes up to DN300x300 is +/- 3 mm, sizes above are +/- 5mm.

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