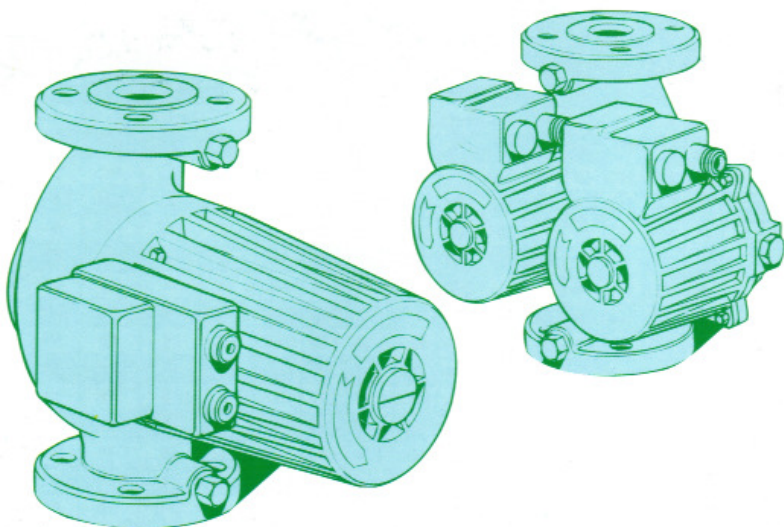


SILENTFLO

MULTI-SPEED GLANDLESS CIRCULATORS



SILENTFLO GLANDLESS CIRCULATORS FOR HEATING, AIR CONDITIONING AND HOT WATER SERVICE APPLICATIONS

Silentflo single and twin, flooded rotor, glandless circulators for continuous service in domestic and commercial heating, air conditioning and hot water service systems.

CONSTRUCTION

- Single and Twin in-line circulators for convenient pipeline mounting - top pull-out design allows the motor and rotating assembly to be removed without disturbing the pump casing or pipework.
- Dynamically balanced flooded rotor, and water lubricated carbon bearings ensures super quiet running and maintenance free service.
- Multi-speed, energy efficient motors allow the circulator performance to be matched to the system flow requirements.
- Twin circulators comprise two single silentflo circulator heads mounted within a compact common housing, which incorporates a discharge non-return flap to prevent recirculation when one head is running. Twin circulators, whilst generally arranged for duty and standby operation, can be operated with both heads running in parallel for peak load applications.

DESIGN CONSIDERATIONS

Operating limits

SINGLE PUMP TYPE CODE	B	S	SL
TWIN PUMP TYPE CODE		DS	DSL
Size	Rp3/4 - Rp1	Rp1 - DN32	DN40 - 80
Water temperature range - °C	+15 to 65	-10 to 110	-10 to 120
Maximum operating pressure - bar	6	6	6 optional 10
Performance test standard	ISO 2548		
Standard Electric supply	230 volt, 1 phase, 50 Hz - code E1 400 volt, 3 phase, 50 Hz - code E3		

Materials of construction

TYPE CODE	B	S	SL
Casing	Gunmetal	Cast Iron	
Impeller	Engineering thermoplastic		
Shaft	Ceramic	Stainless steel	
Bearings	Hard wearing carbon - water lubricated		
Motor	IP44 protection - Class 'F' insulation		

Pump coding example

TYPE CODE	PUMP SIZE	NOMINAL HEAD kPa	ELECTRIC SUPPLY
DSL	50.	120-	E3

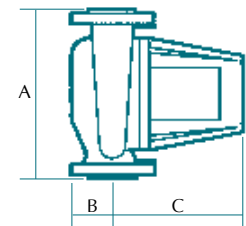
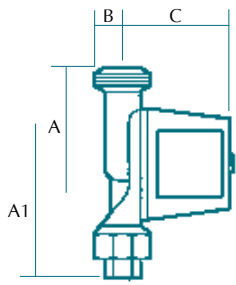
FLUID
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SILENTFLO

SINGLE GLANDLESS CIRCULATORS

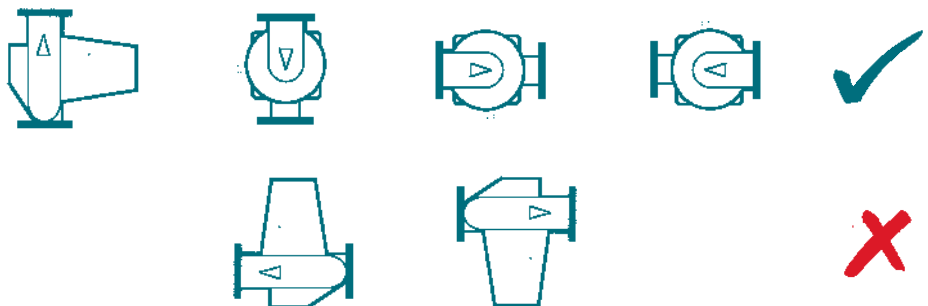
DIMENSIONS & DATA



PUMP MODEL	ELECTRIC SUPPLY		INLET & OUTLET		DIMENSIONS IN MILLIMETRES								INPUT WATTS at speed position			FULL LOAD AMPS at speed position			MINIMUM STATIC HEAD METRES to avoid Cavitation noise			MASS kg
	E1	E3	SIZE	BS4504		A	A1	B	C	D	E	F	3	2	1	3	2	1	82°C	90°C	110°C	
				PN6	PN10																	
B20.15	●		Rp ³ / ₄			150	205	20	105	75	50	50	40	Single speed	0.22	Single speed		2	2.5	10.5	3	
B20.30	●		Rp ³ / ₄			150	205	20	105	75	50	50	55	Single speed	0.26	Single speed		2	2.5	10.5	3	
B20.60	●		Rp ³ / ₄			150	205	20	105	75	50	50	80	Single speed	0.37	Single speed		2	2.5	10.5	3	
SB20.60	●		Rp ³ / ₄			150	205	20	105	75	50	50	80	60	40	0.37	0.29	0.20	2	2.5	10.5	3
B25.80	●		Rp1			180	235	40	170	70	70	70	285	270	260	1.4	1.3	1.3	2	2.5	10.5	7
B25.100	●		Rp1			180	235	40	170	70	70	360	340	280	1.7	1.5	1.4	2	2.5	10.5	7	
B25.120	●		Rp1			180	235	40	170	70	70	400	370	285	1.9	1.7	1.4	2	2.5	10.5	7	
S25.60	●		Rp1			180	235	25	105	75	50	50	80	60	40	0.4	0.3	0.2	1	1.5	9.5	3.5
S32.80	●		Rp1 ¹ / ₄			180	235	35	140	90	50	50	324	300	247	1.4	1.3	1.1	2	2.5	10.5	5
S32.80		●	Rp1 ¹ / ₄			180	235	35	140	90	50	50	-	270	190	-	0.6	0.3	2	2.5	10.5	5
S32.110	●		Rp1 ¹ / ₄			180	235	40	185	100	70	70	410	390	360	2.0	1.9	1.8	2	2.5	10.5	8
S32.110		●	Rp1 ¹ / ₄			180	235	40	185	95	70	70	-	400	290	-	1.0	0.5	2	2.5	10.5	8
S40.60	●		40	●	○	250	-	70	140	90	75	75	324	300	247	1.4	1.3	1.1	2	2.5	10.5	9
S40.60		●	40	●	○	250	-	70	140	90	75	75	-	300	200	-	0.7	0.4	2	2.5	10.5	9
S40.80	●		40	●	○	250	-	65	140	90	75	75	324	300	247	1.4	1.3	1.1	2	2.5	10.5	9
S40.80		●	40	●	○	250	-	65	140	90	75	75	-	270	190	-	0.6	0.3	2	2.5	10.5	9
S40.110	●		40	●	○	250	-	70	190	100	75	75	410	390	360	1.95	1.8	1.7	2	2.5	10.5	9.5
S40.110		●	40	●	○	250	-	70	190	100	75	75	-	400	290	-	1.0	0.5	2	2.5	10.5	10
SL40.70	●		40	●	○	250	-	66	200	128	90	82	315	310	290	1.6	1.6	1.5	2	4	12	18
SL40.70		●	40	●	○	250	-	66	200	128	90	82	350	315	230	1.1	0.9	0.8	2	4	12	18
SL40.120	●		40	●	○	250	-	66	200	128	90	82	510	500	375	2.5	2.4	2.1	6	8	16	18
SL40.120		●	40	●	○	250	-	66	200	128	90	82	535	500	340	1.28	1.1	0.68	6	8	16	18
SL50.70	●		50	●	○	280	-	75	235	145	110	95	595	540	505	3.0	2.7	2.7	2	4	12	25
SL50.70		●	50	●	○	280	-	75	235	145	110	95	590	545	425	1.44	1.1	0.8	2	4	12	25
SL50.120	●		50	●	○	280	-	75	235	145	110	95	870	800	590	4.4	4.0	3.4	6	8	16	26
SL50.120		●	50	●	○	280	-	75	235	145	110	95	900	840	600	1.84	1.62	1.1	6	8	16	26
SL50.150		●	50	●	○	280	-	75	290	160	110	95	1470	1360	1030	3.2	2.7	1.9	6	8	16	26
SL50.180		●	50	●	○	280	-	75	290	160	110	95	1630	1540	1130	3.3	3.0	2.0	6	8	16	26
SL65.70	●		65	●	○	340	-	80	250	160	115	100	735	685	565	3.7	3.4	3.4	2	4	12	28
SL65.70		●	65	●	○	340	-	80	250	160	115	100	755	705	535	1.65	1.4	1.1	2	4	12	28
SL65.120		●	65	●	○	340	-	80	300	160	115	100	1275	1200	935	2.9	2.4	1.7	6	9	17	37
SL65.150		●	65	●	○	340	-	80	300	160	115	100	1795	1690	1210	3.6	3.2	2.2	9	11	18	33
SL65.180		●	65	●	○	340	-	80	300	160	115	100	2760	2330	1560	4.6	4.2	2.7	9	11	18	33
SL80.60		●	80	●	○	360	-	100	300	160	140	100	760	660	470	2.25	1.80	1.0	3	5	13	40
SL80.120		●	80	●	○	360	-	100	300	160	140	100	1820	1710	1300	3.7	3.2	2.3	8	10	18	40
SL80.150		●	80	●	○	360	-	100	300	160	140	100	2870	2685	1710	5.1	4.7	3.1	9	11	18	40
SL80.180		●	80	●	○	360	-	100	300	160	140	100	2310	2210	1490	4.4	3.8	2.6	9	11	18	40

● Standard ○ Optional

INSTALLATION ARRANGEMENTS



- Glandless circulators must be installed with the motor shaft horizontal.
- To avoid damaging deposit build-up in Secondary hot water circulators, do not operate above 65°C. Install the circulator in a vertical pipe-run pumping upwards. Do not oversize the circulator.

SILENTFLO 1.1.1

FLUID AUTOMATION LIMITED, GREEN LANE, FELLING, GATESHEAD, NE10 0LZ, ENGLAND

T: 0191 438 2200 | F: 0191 438 2211 | E: sales@fluidautomation.co.uk

W: www.fluidautomation.co.uk

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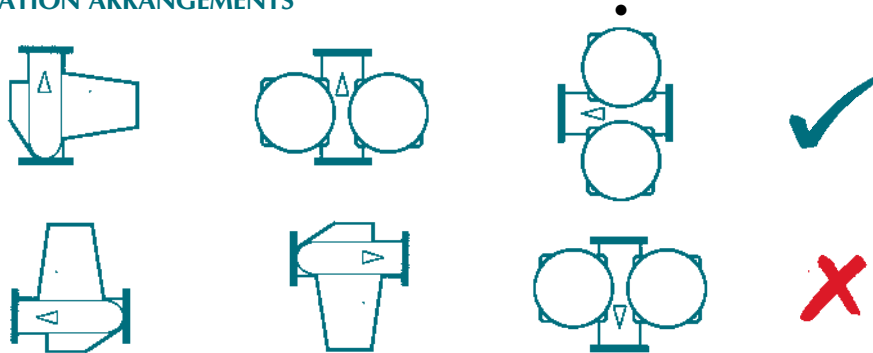
TWIN GLANDLESS CIRCULATORS

DIMENSIONS & DATA

PUMP MODEL	ELECTRIC SUPPLY		INLET & OUTLET			DIMENSIONS IN MILLIMETRES							INPUT WATTS at speed position			FULL LOAD AMPS at speed position			MINIMUM STATIC HEAD METRES to avoid Cavitation noise			MASS kg
	E1	E3	SIZE	BS4504		A	A1	B	C	D	E	F	3	2	1	3	2	1	82°C	90°C	110°C	
				PN6	PN10																	
DS32.60	●		32	●	○	220	-	50	100	-	115	115	80	60	40	0.4	0.3	0.2	1	1.5	9.5	9
DS40.60	●		40	●	○	250	-	65	140	-	130	130	324	300	247	1.4	1.3	1.1	1	1.5	9.5	15
DS40.60		●	40	●	○	250	-	65	140	-	130	130	-	300	200	-	0.7	0.4	1	1.5	9.5	15
DS40.80	●		40	●	○	250	-	65	140	-	130	130	324	300	247	1.4	1.3	1.1	2	2.5	10.5	15
DS40.80		●	40	●	○	250	-	65	140	-	130	130	-	270	190	-	0.6	0.3	2	2.5	10.5	15
DS40.110	●		40	●	○	250	-	70	160	-	155	155	410	390	360	1.95	1.8	1.7	2	2.5	10.5	18
DS40.110		●	40	●	○	250	-	70	160	-	155	155	-	400	290	-	1.0	0.5	2	2.5	10.5	18
DSL40.70	●		40	●	○	250	-	66	200	-	240	240	315	310	290	1.6	1.6	1.5	2	4	12	30
DSL40.70		●	40	●	○	250	-	66	200	-	240	240	350	315	230	1.1	0.9	0.8	2	4	12	30
DSL40.120	●		40	●	○	250	-	66	200	-	240	240	510	500	375	2.5	2.4	2.1	6	8	16	30
DSL40.120		●	40	●	○	250	-	66	200	-	240	240	535	500	340	1.28	1.1	0.68	6	8	16	30
DSL50.70	●		50	●	○	280	-	75	235	-	280	280	595	540	505	3.0	2.7	2.7	2	4	12	45
DSL50.70		●	50	●	○	280	-	75	235	-	280	280	590	545	425	1.44	1.1	0.8	2	4	12	45
DSL50.120	●		50	●	○	280	-	75	235	-	280	280	870	800	590	4.4	4.0	3.4	6	8	16	45
DSL50.120		●	50	●	○	280	-	75	235	-	280	280	900	840	600	1.84	1.62	1.1	6	8	16	45
DSL50.150	●		50	●	○	280	-	75	290	-	280	280	1470	1360	1030	3.2	2.7	1.9	6	8	16	50
DSL50.180		●	50	●	○	280	-	75	290	-	280	280	1630	1540	1130	3.3	3.0	2.0	6	8	16	50
DSL65.70	●		65	●	○	340	-	80	250	-	240	240	735	685	565	3.7	3.4	3.4	2	4	12	55
DSL65.70		●	65	●	○	340	-	80	250	-	240	240	755	705	535	1.65	1.4	1.1	2	4	12	55
DSL65.120	●		65	●	○	340	-	80	300	-	240	240	1275	1200	935	2.9	2.4	1.7	6	9	17	60
DSL65.120		●	65	●	○	340	-	80	300	-	240	240	1795	1690	1210	3.6	3.2	2.2	9	11	18	60
DSL65.150	●		65	●	○	340	-	80	300	-	240	240	2760	2330	1560	4.6	4.2	2.7	9	11	18	60
DSL65.180		●	65	●	○	340	-	80	300	-	240	240	2760	2330	1560	4.6	4.2	2.7	9	11	18	60
DSL80.60	●		80	●	○	360	-	100	300	-	240	240	760	660	470	2.25	1.80	1.0	3	5	13	70
DSL80.120	●		80	●	○	360	-	100	300	-	240	240	1820	1710	1300	3.7	3.2	2.3	8	10	18	70
DSL80.150	●		80	●	○	360	-	100	300	-	240	240	2870	2685	1710	5.1	4.7	3.1	9	11	18	70
DSL80.180	●		80	●	○	360	-	100	300	-	240	240	2310	2210	1490	4.4	3.8	2.6	9	11	18	70

● Standard ○ Optional

INSTALLATION ARRANGEMENTS



- Glandless circulators must be installed with the motor shaft horizontal.
- Install an Auto-Airvent if using this installation arrangement

SILENTFLO 1.1.2