

High Pressure Pumps



TFS3, FFS3

50 Hz

Screw spindles

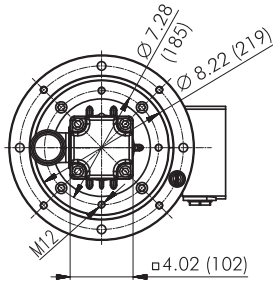
2-pole motor rotation speed 2900 RPM							4-pole motor rotation speed 1450 RPM					
Pressure max.	Flow at viscosity		Power consumption of viscosity		Motor	Weight	Flow at viscosity		Power consumption of viscosity		Motor	Weight
	5 SSU	90 SSU	5 SSU	90 SSU			5 SSU	90 SSU	5 SSU	90 SSU		
Type / bar / PSI	GPM	GPM	HP	HP	HP	Lbs	GPM	GPM	HP	HP	HP	Lbs
TFS348/	Q_{Th}¹⁾ 16.9		–	–	–	–	Q_{Th}¹⁾ 8.5		–	–	–	–
10 / 145	15.9	16.5	2.0	2.1	3	104	7.4	8.0	0.9	1.1	1.5	97
20 / 290	15.5	16.2	3.4	3.8	5.4	137	7.0	7.8	1.6	1.7	2	104
30 / 435	15.1	16.0	4.8	5.2	7.5	159	6.6	7.6	2.4	2.5	3	128
40 / 580	14.7	15.8	6.3	6.8	7.5	159	6.2	7.4	3.1	3.2	4	128
50 / 725	14.4	15.6	7.6	8.3	10	190	5.9	7.2	3.8	4.0	5.4	137
60 / 870	14.0	15.5	9.1	9.8	15	232	5.6	7.0	4.6	4.7	5.4	137
70 / 1015	13.7	15.3	10.6	11.4	15	232	5.2	6.8	5.2	5.5	7.5	205
80 / 1160	13.4	15.1	11.9	12.9	15	232	4.9	6.7	5.9	6.3	7.5	205
90 / 1305	13.1	15.0	13.4	14.3	20	251	4.6	6.5	6.7	7.0	7.5	205
100 / 1450	12.8	14.8	14.9	15.8	20	251	4.3	6.4	7.4	7.8	10	205
110 / 1595	12.3	14.7	16.2	17.4	20	251	–	–	–	–	–	–
120 / 1740	11.9	14.6	17.7	19.0	20	251	–	–	–	–	–	–
130 / 1885	11.4	14.5	19.2	20.5	25	273	–	–	–	–	–	–
140 / 2030	11.0	14.4	20.5	22.0	25	273	–	–	–	–	–	–
150 / 2175	10.6	14.3	22.0	23.6	25	273	–	–	–	–	–	–
TFS364/	Q_{Th}¹⁾ 22.6		–	–	–	–	Q_{Th}¹⁾ 11.3		–	–	–	–
10 / 145	21.1	21.9	2.4	2.7	4	119	9.8	10.6	1.2	1.2	2	104
20 / 290	20.6	21.7	4.4	4.7	7.5	159	9.3	10.4	2.1	2.3	3	128
30 / 435	20.2	21.4	6.3	6.7	10	190	8.9	10.1	3.1	3.2	4	128
40 / 580	19.7	21.2	8.2	8.7	10	190	8.4	9.9	4.0	4.3	5.4	137
50 / 725	19.3	20.9	10.1	10.7	15	232	8.0	9.6	5.0	5.2	7.5	205
60 / 870	18.9	20.7	12.1	12.7	15	232	7.6	9.4	5.9	6.3	7.5	205
70 / 1015	18.5	20.5	13.9	14.6	20	251	7.2	9.2	6.8	7.2	10	205
80 / 1160	18.1	20.3	15.8	16.6	20	251	6.8	9.0	7.9	8.2	10	205
90 / 1305	17.7	20.1	17.7	18.6	20	251	6.3	8.8	8.9	9.3	10	205
100 / 1450	17.3	19.9	19.7	20.7	25	273	5.9	8.6	9.8	10.2	15	249
110 / 1595	16.7	19.8	21.6	22.7	25	273	–	–	–	–	–	–
120 / 1740	16.1	19.6	23.5	24.7	30	335	–	–	–	–	–	–
130 / 1885	15.5	19.2	25.3	26.7	30	335	–	–	–	–	–	–
140 / 2030	15.0	18.8	27.4	28.7	30	335	–	–	–	–	–	–
150 / 2175	14.4	18.4	29.2	30.6	40	454	–	–	–	–	–	–
TFS376/	Q_{Th}¹⁾ 26.8		–	–	–	–	Q_{Th}¹⁾ 13.4		–	–	–	–
10 / 145	25.2	26.0	2.8	3.2	5.4	137	11.8	12.6	1.3	1.6	3	128
20 / 290	24.6	25.7	5.1	5.6	7.5	159	11.2	12.3	2.4	2.8	4	128
30 / 435	24.0	25.4	7.4	8.0	10	190	10.6	12.0	3.6	4.0	5.4	137
40 / 580	23.5	25.1	9.7	10.6	15	232	10.1	11.7	4.7	5.2	7.5	205
50 / 725	23.0	24.9	11.9	13.0	15	232	9.6	11.4	5.9	6.4	7.5	205
60 / 870	22.5	24.6	14.2	15.4	20	251	9.1	11.2	7.0	7.6	10	205
70 / 1015	22.0	24.4	16.4	17.8	20	251	8.5	10.9	8.2	8.9	10	205
80 / 1160	21.5	24.1	18.6	20.2	25	273	8.0	10.7	9.3	9.9	15	249
90 / 1305	21.0	23.9	20.9	22.7	25	273	7.5	10.5	10.5	11.3	15	249
100 / 1450	20.5	23.7	23.2	25.2	30	335	7.0	10.3	11.5	12.3	15	249
110 / 1595	19.7	23.5	25.5	27.6	30	335	–	–	–	–	–	–
120 / 1740	18.9	23.3	27.8	30.0	40	454	–	–	–	–	–	–
130 / 1885	18.2	22.8	30.0	32.5	40	454	–	–	–	–	–	–
140 / 2030	17.4	22.4	32.2	34.9	40	454	–	–	–	–	–	–
150 / 2175	16.7	21.9	34.5	37.4	40	454	–	–	–	–	–	–

¹⁾ Q_{Th}: Theoretical flow rate ; Viscosity > 90 SSU more power consumption.
Higher pressure for water soluble coolants (up to 2900 psi / 200 bar) upon request.

Characteristics and dimensions

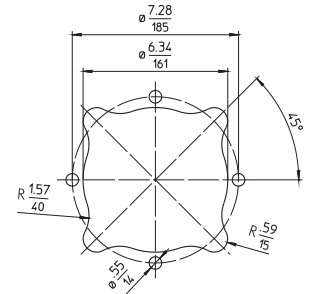
TFS3, FFS3

50 Hz

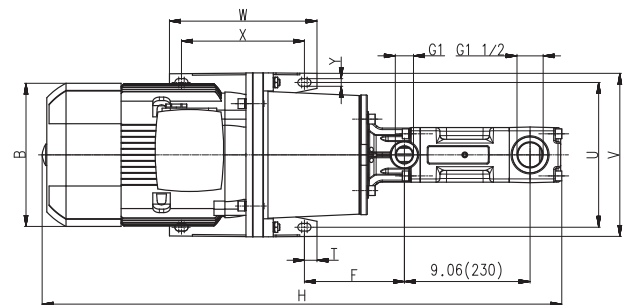
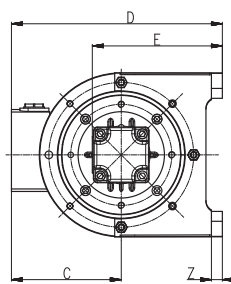
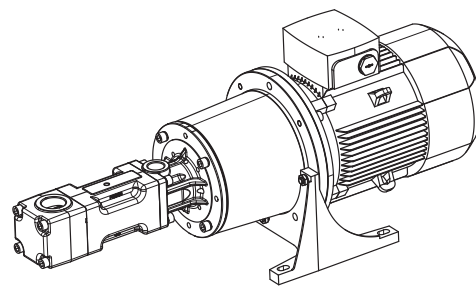
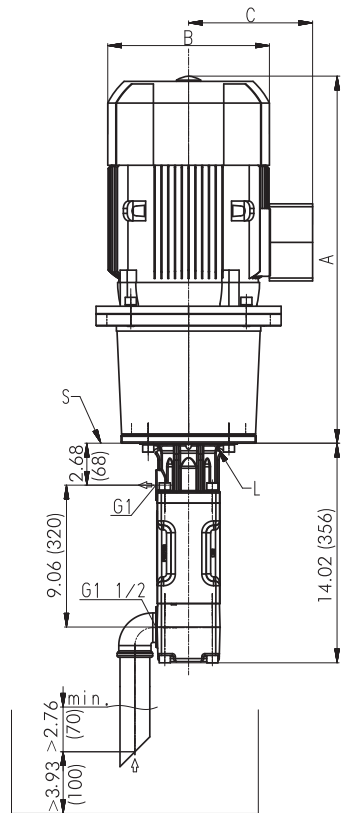


Mounting hole patterns

TFS3 / TFS4



Dimensions in Inches / mm
All corners must be deburred!
According to ISO 2768-m



*) Dimensions for 4-pole standard motor upon request
L = Leakage hole
S = Mounting plate, please refer to the cut-out of mounting hole

Power 2-poles HP	Power 4-poles HP	A Inch	B Inch	C Inch	D Inch	E Inch	F Inch	H Inch	T Inch	U Inch	V Inch	W Inch	X Inch	Y Inch	Z Inch
–	1.5 / 2	18.74	7.01	4.96	9.37	6.50	6.57	33.35	0.59	7.09	8.27	3.54	2.36	0.43	0.47
3	–	20.31	7.01	4.96	9.37	6.50	6.57	34.92	0.59	7.09	8.27	3.54	2.36	0.43	0.47
4	3 / 4	22.36	7.80	6.54	12.64	8.19	7.32	36.38	0.89	8.46	9.84	9.06	7.28	0.55	0.59
5.4	5.4	21.69	8.74	6.97	13.07	8.19	7.32	35.71	0.89	8.46	9.84	9.06	7.28	0.55	0.59
7.5	–	23.43	10.31	7.95	15.24	9.37	7.20	37.44	0.89	10.43	11.81	10.63	8.86	0.55	0.71
10	7.5	25.39	10.31	7.95	15.24	9.37	7.20	39.41	0.89	10.43	11.81	10.63	8.86	0.55	0.71
–	10	25.75	10.31	7.95	15.24	9.37	7.20	39.76	0.89	10.43	11.81	10.63	8.86	0.55	0.71
15 / 20	15	30.08	12.36	9.33	18.58	11.34	8.74	44.09	0.79	11.81	13.78	12.01	10.43	0.71	0.71
25	–	32.44	12.36	9.33	18.58	11.34	8.74	46.46	0.79	11.81	13.78	12.01	10.43	0.71	0.71
30	–	32.44	14.02	11.26	20.51	11.34	8.74	46.46	0.79	11.81	13.78	12.01	10.43	0.71	0.71
40	–	34.68	15.59	12.40	22.64	12.32	8.35	48.70	0.98	13.78	15.75	13.78	11.81	0.71	0.79