

High Pressure Pumps



TFS4, FFS4

50 Hz

Screw spindles

Pressure max.	2-pole motor rotation speed 2900 RPM						4-pole motor rotation speed 1450 RPM					
	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
TFS460/	Q_{Th}¹⁾ 33.1		–	–	–	–	Q_{Th}¹⁾ 16.6		–	–	–	–
10 / 145	31.2	32.2	3.6	4.0	5.4	159	14.5	15.6	1.6	1.7	3	150
20 / 290	30.4	31.7	6.4	7.0	10	212	13.7	15.1	3.1	3.2	4	150
30 / 435	29.6	31.2	9.3	9.9	15	254	13.2	14.8	4.4	4.7	5.4	159
40 / 580	29.1	30.9	12.1	12.9	15	254	12.4	14.3	5.9	6.3	7.5	227
50 / 725	28.3	30.6	14.8	15.8	20	273	11.6	14.0	7.2	7.8	10	227
60 / 870	27.7	30.1	17.6	18.8	20	273	11.1	13.7	8.7	9.3	10	227
70 / 1015	26.9	29.9	20.4	21.6	25	295	10.6	13.2	10.1	10.7	15	271
80 / 1160	26.4	29.6	23.2	24.5	30	357	9.8	12.9	11.5	12.2	15	271
90 / 1305	25.9	29.3	26.0	27.5	30	357	9.2	12.7	12.9	13.8	15	271
100 / 1450	25.4	29.1	28.8	30.4	40	476	8.5	12.4	14.3	15.2	20	309
110 / 1595	24.8	28.8	31.6	33.4	40	476	–	–	–	–	–	–
120 / 1740	24.0	28.5	34.3	36.3	40	476	–	–	–	–	–	–
TFS480/	Q_{Th}¹⁾ 44.1		–	–	–	–	Q_{Th}¹⁾ 22.1		–	–	–	–
10 / 145	41.5	42.8	4.6	5.0	7.5	181	19.6	20.9	2.1	2.4	3	150
20 / 290	40.4	42.3	8.3	8.9	10	212	18.5	20.1	4.0	4.3	5.4	159
30 / 435	39.6	41.7	12.1	12.7	15	254	17.4	19.6	5.9	6.3	7.5	227
40 / 580	38.6	41.2	15.7	16.6	20	273	16.6	19.0	7.8	8.2	10	227
50 / 725	37.8	40.7	19.4	20.4	25	295	15.9	18.5	9.7	10.2	15	271
60 / 870	37.0	40.2	23.2	24.3	30	357	14.8	18.0	11.5	12.3	15	271
70 / 1015	36.2	39.6	27.0	28.2	30	357	14.0	17.7	13.3	14.2	15	271
80 / 1160	35.4	39.4	30.7	32.1	40	476	13.5	17.2	15.2	16.2	20	309
90 / 1305	34.9	38.8	34.5	35.8	40	476	12.4	16.9	17.0	18.2	20	309
100 / 1450	34.1	38.6	38.2	39.7	40	476	11.6	16.6	18.9	20.1	25	384
110 / 1595	33.3	38.3	42.0	43.6	50	523	–	–	–	–	–	–
120 / 1740	32.8	38.0	45.6	47.5	50	523	–	–	–	–	–	–
TFS496/	Q_{Th}¹⁾ 53.0		–	–	–	–	Q_{Th}¹⁾ 26.5		–	–	–	–
10 / 145	49.9	51.3	5.2	5.9	7.5	181	23.5	24.8	2.5	2.8	4	150
20 / 290	48.9	50.7	9.8	10.7	15	254	22.5	24.3	4.7	5.2	7.5	227
30 / 435	47.8	50.2	14.2	15.4	20	273	21.1	23.8	7.0	7.6	10	227
40 / 580	46.8	49.7	18.8	20.2	25	295	20.1	23.2	9.3	10.1	15	271
50 / 725	45.7	49.1	23.2	24.9	30	357	19.0	22.7	11.5	12.5	15	271
60 / 870	44.6	48.6	27.8	29.8	40	476	18.2	22.2	13.7	14.9	20	309
70 / 1015	43.9	48.1	32.2	34.5	40	476	17.2	21.7	16.0	17.3	20	309
80 / 1160	42.8	47.6	36.6	39.3	50	523	16.4	21.1	18.2	19.8	25	384
90 / 1305	42.0	47.3	41.2	44.0	50	523	15.3	20.6	20.5	22.3	25	384
100 / 1450	41.2	46.8	45.6	48.8	60	789	14.5	20.3	22.7	24.7	30	415
110 / 1595	40.4	46.5	50.2	53.5	60	789	–	–	–	–	–	–
120 / 1740	39.4	46.0	54.6	58.3	60	789	–	–	–	–	–	–

¹⁾ Q_{Th}: Theoretical flow rate

Viscosity > 90 SSU more power consumption.

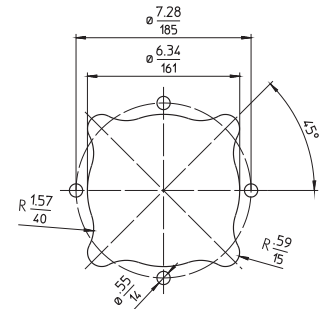
Characteristics and dimensions

TFS4, FFS4

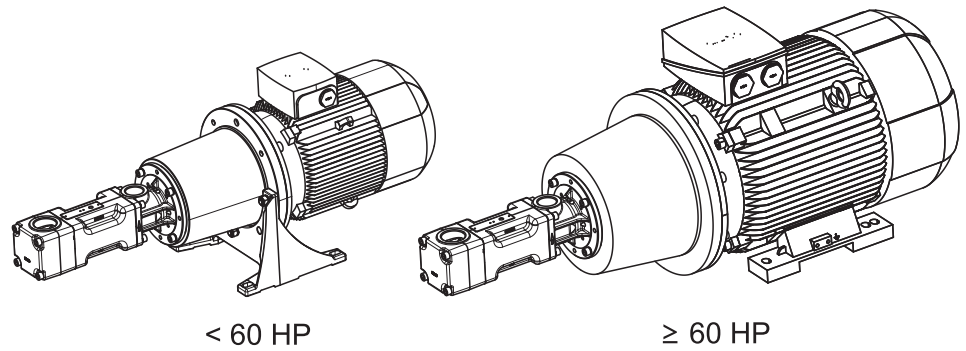
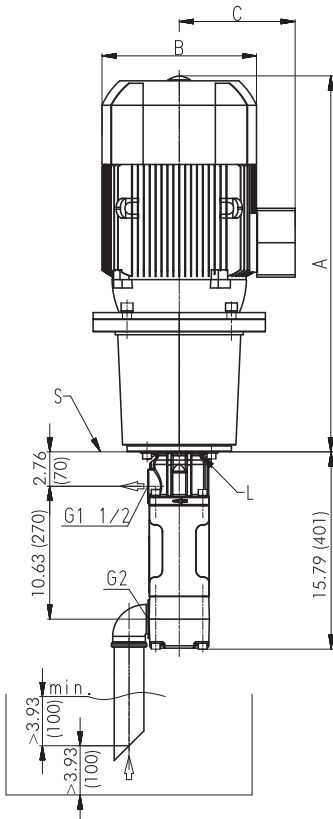
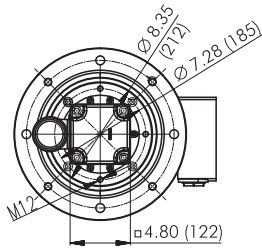
50 Hz

Mounting hole patterns

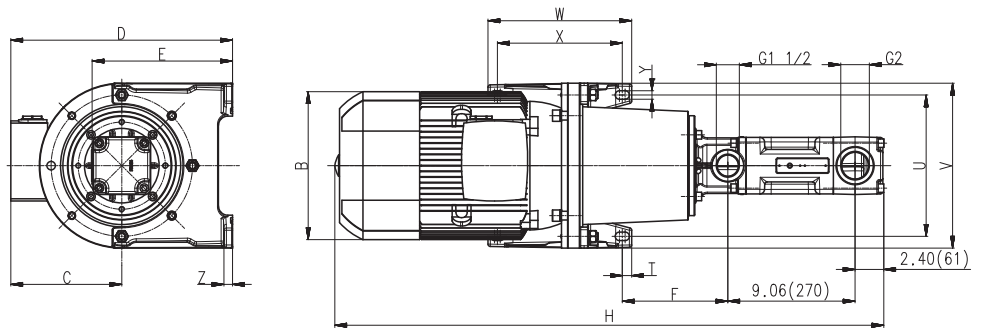
TFS3 / TFS4



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	B	C	D	E	F	H	T	U	V	W	X	Y	Z
		Inch	Inch	Inch	Inch	Inch	Inch	Inch	Inch	Inch	Inch	Inch	Inch	Inch	Inch
-	3 / 4	22.36	7.80	6.54	12.64	8.58	7.40	38.15	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	8.58	7.40	37.48	0.89	8.46	9.84	9.06	7.28	0.55	0.59
10	7.5	25.94	10.31	7.95	15.24	9.76	7.83	41.73	0.89	10.43	11.81	10.63	8.86	0.55	0.71
7.5	-	23.98	10.31	7.95	15.24	9.76	7.83	39.76	0.89	10.43	11.81	10.63	8.86	0.55	0.71
-	10	26.30	10.31	7.95	15.24	9.76	7.83	42.09	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	11.73	8.82	45.87	0.79	11.81	13.78	12.01	10.43	0.71	0.71
25	20	32.44	12.36	9.33	18.58	11.73	8.82	48.23	0.79	11.81	13.78	12.01	10.43	0.71	0.71
-	25	32.60	14.02	11.26	20.51	11.73	8.82	48.39	0.79	11.81	13.78	12.01	10.43	0.71	0.71
30	-	32.44	14.02	11.26	20.51	11.73	8.82	48.23	0.79	11.81	13.78	12.01	10.43	0.71	0.71
-	30	33.78	14.02	11.26	20.51	11.73	8.82	49.57	0.79	11.81	13.78	12.01	10.43	0.71	0.71
40	-	34.68	15.59	12.40	22.64	12.72	8.43	50.47	0.98	13.78	15.75	13.78	11.81	0.71	0.79
50	-	35.67	15.59	12.40	22.64	12.72	8.43	51.46	0.98	13.78	15.75	13.78	11.81	0.71	0.79
60	-	38.74	17.68	13.31	22.17	11.34	19.49	54.53	0.98	14.02	17.17	14.21	12.24	0.75	1.34