

High Pressure Pumps

TFS4, FFS4

Screw spindles



2-pole motor rotation speed 3500 RPM							4-pole motor rotation speed 1750 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	NEMA		5 SSU	90 SSU	5 SSU	90 SSU	NEMA	
Type / bar / PSI	GPM	GPM	HP	HP	HP	Lbs	GPM	GPM	HP	HP	HP	Lbs
TFS460/	Q_{Th}¹⁾ 39.9		-	-	-	-	Q_{Th}¹⁾ 20.0		-	-	-	-
10 / 145	38.0	38.8	4.4	5.0	7.5	183	18.0	19.0	2.1	2.1	3	150
20 / 290	37.3	38.6	7.8	8.6	10	212	17.2	18.5	3.8	3.9	5	150
30 / 435	36.5	38.0	11.3	12.1	15	254	16.6	18.2	5.5	5.8	7.5	159
40 / 580	35.9	37.8	14.6	15.7	20	273	15.9	17.7	7.1	7.5	10	227
50 / 725	35.1	37.5	18.0	19.3	25	295	15.1	17.4	8.9	9.4	10	227
60 / 870	34.6	37.0	21.3	22.8	25	295	14.5	17.2	10.6	11.3	15	227
70 / 1015	33.8	36.7	24.7	26.4	30	373	14.0	16.6	12.2	13.0	15	271
80 / 1160	33.3	36.5	28.2	29.9	40	476	13.2	16.4	13.9	14.9	20	271
90 / 1305	32.8	36.2	31.5	33.5	40	476	12.7	16.1	15.6	16.6	20	309
100 / 1450	32.2	35.9	34.9	37.1	40	476	11.9	15.9	17.3	18.5	20	309
110 / 1595	31.7	35.7	38.2	40.6	50	523	-	15.6	-	20.4	25	309
120 / 1740	30.9	35.4	41.7	44.3	50	523	-	15.3	-	22.1	25	309
TFS480/	Q_{Th}¹⁾ 53.3		-	-	-	-	Q_{Th}¹⁾ 26.6		-	-	-	-
10 / 145	50.7	52.0	5.6	6.6	10	212	24.0	25.4	2.7	2.8	4	150
20 / 290	49.7	51.3	10.1	11.4	15	254	23.0	24.8	5.0	5.2	7.5	159
30 / 435	48.6	50.7	14.6	16.2	20	273	22.2	24.0	7.1	7.6	10	227
40 / 580	47.8	50.2	19.0	20.9	25	295	21.1	23.5	9.4	10.1	15	227
50 / 725	47.0	49.7	23.6	25.7	30	373	20.3	23.2	11.7	12.5	15	271
60 / 870	46.2	49.4	28.2	30.6	40	476	19.6	22.7	13.9	14.9	20	271
70 / 1015	45.4	48.9	32.6	35.4	40	476	18.8	22.2	16.2	17.3	20	309
80 / 1160	44.6	48.3	37.1	40.2	50	523	18.0	21.9	18.4	19.7	20	309
90 / 1305	43.9	48.1	41.7	45.1	50	523	17.2	21.4	20.7	22.1	25	309
100 / 1450	43.3	47.8	46.1	49.8	60	789	16.4	21.1	22.9	24.5	25	384
110 / 1595	42.5	47.6	50.7	54.6	60	789	-	20.9	-	27.0	30	384
120 / 1740	41.7	47.3	55.1	59.4	60	789	-	20.6	-	29.4	30	401
TFS496/	Q_{Th}¹⁾ 63.9		-	-	-	-	Q_{Th}¹⁾ 32.0		-	-	-	-
10 / 145	61.0	62.1	6.4	7.5	10	212	29.1	30.1	3.1	3.6	5	150
20 / 290	59.7	61.6	11.9	13.3	15	254	27.7	29.6	5.8	6.4	7.5	227
30 / 435	58.7	61.0	17.3	19.0	25	295	26.7	29.1	8.4	9.4	10	227
40 / 580	57.6	60.5	22.7	24.8	30	373	25.6	28.5	11.3	12.2	15	271
50 / 725	56.5	60.0	28.2	30.6	40	476	24.6	28.0	13.9	15.2	20	271
60 / 870	55.7	59.4	33.5	36.3	40	476	23.8	27.5	16.6	18.1	20	309
70 / 1015	54.7	59.2	38.9	42.1	50	523	22.7	27.2	19.3	20.9	25	309
80 / 1160	53.9	58.7	44.4	47.9	50	523	21.9	26.7	22.0	23.9	25	384
90 / 1305	53.1	58.1	49.8	53.6	60	789	20.9	26.2	24.7	26.7	30	384
100 / 1450	52.3	57.9	55.1	59.4	75	955	20.1	25.9	27.5	29.6	30	401
110 / 1595	51.5	57.3	60.6	65.2	75	955	-	25.4	-	32.6	40	512
120 / 1740	50.5	56.8	66.0	70.9	75	955	-	24.8	-	35.4	40	512

¹⁾ Q_{Th}: Theoretical flow rate

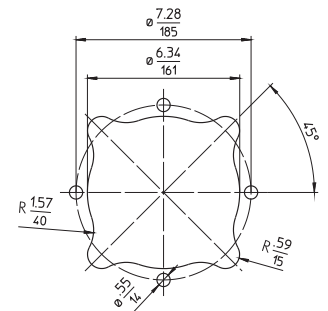
Viscosity > 90 SSU more power consumption.

Characteristics and dimensions

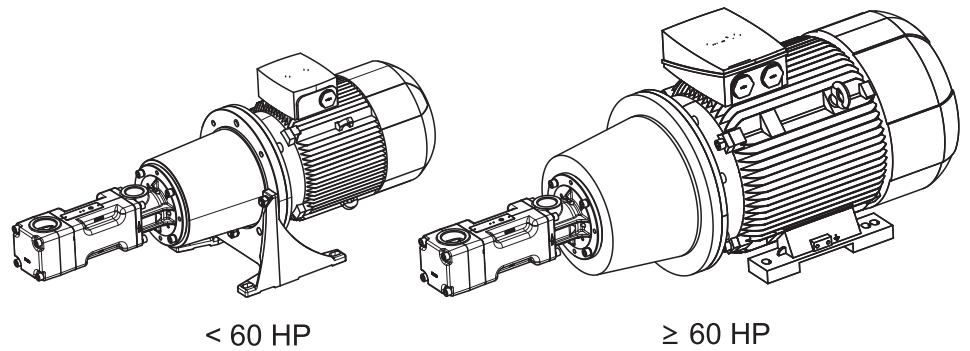
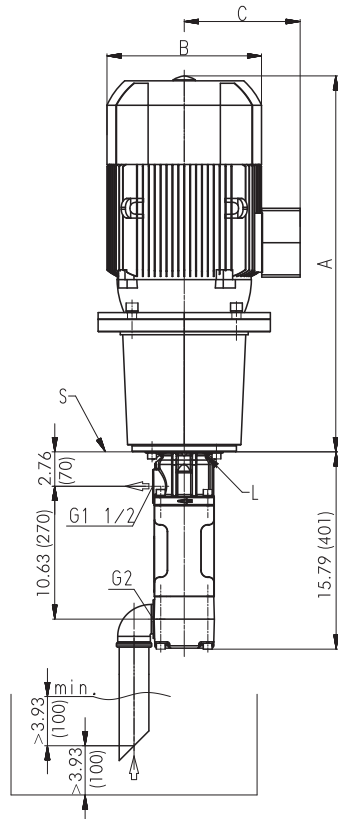
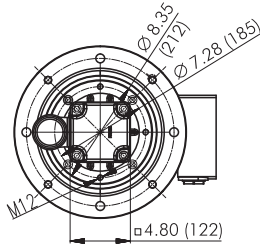
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Mounting hole patterns

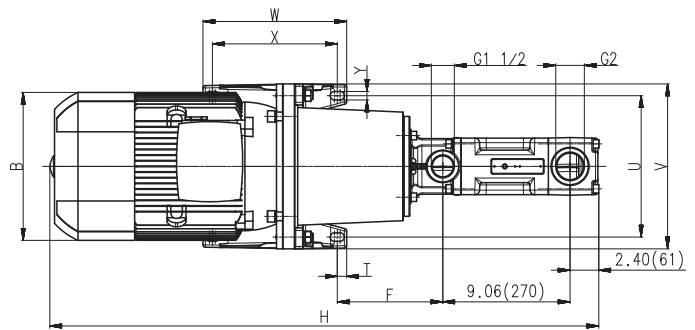
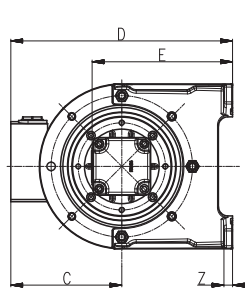
TFS3 / TFS4



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	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
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	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
-	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	40	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
75	-	41.57	19.57	16.14	25.98	12.32	21.54	57.36	1.18	15.98	19.29	16.10	13.74	0.94	1.57