

High Pressure Pumps

TFS5, FFS5

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
TFS574/	Q _{Th} ¹⁾ 63.8		–	–	–	–	Q _{Th} ¹⁾ 31.9		–	–	–	–
10 / 145	60.8	62.1	6.7	7.6	10	271	28.8	30.1	3.1	3.6	5.4	218
20 / 290	59.7	61.6	12.2	13.3	20	333	27.7	29.6	5.8	6.4	7.5	287
30 / 435	58.7	61.0	17.6	19.0	25	355	26.7	29.1	8.4	9.4	10	287
40 / 580	57.9	60.5	22.9	24.7	30	417	25.9	28.8	11.3	12.2	15	331
50 / 725	57.1	60.2	28.3	30.3	40	536	25.1	28.3	13.9	15.2	20	368
60 / 870	56.3	59.7	33.8	36.1	40	536	24.3	27.7	16.6	18.0	20	368
70 / 1015	55.5	59.2	39.2	41.7	50	582	23.5	27.5	19.3	20.8	25	443
80 / 1160	54.7	58.9	44.5	47.5	50	582	22.7	26.9	22.0	23.7	25	443
90 / 1305	53.9	58.4	49.9	53.1	60	849	21.9	26.7	24.7	26.6	30	461
100 / 1450	53.4	58.1	55.4	58.7	60	849	21.1	26.2	27.5	29.4	40	571
110 / 1595	52.6	57.9	60.7	64.5	75	1014	–	–	–	–	–	–
120 / 1740	51.8	57.3	66.1	70.1	75	1014	–	–	–	–	–	–
TFS5100/	Q _{Th} ¹⁾ 86.3		–	–	–	–	Q _{Th} ¹⁾ 43.1		–	–	–	–
10 / 145	81.9	84.0	8.6	9.5	15	313	38.8	41.0	4.0	4.7	7.5	287
20 / 290	80.8	83.5	16.0	17.3	20	333	37.8	40.2	7.6	8.6	10	287
30 / 435	79.8	82.7	23.2	24.9	30	417	36.7	39.6	11.4	12.5	15	331
40 / 580	78.7	82.2	30.6	32.7	40	536	35.7	39.1	15.0	16.4	20	368
50 / 725	77.7	81.6	37.8	40.5	50	582	34.6	38.6	18.6	20.2	25	443
60 / 870	76.9	81.1	45.2	48.3	60	849	33.6	38.0	22.3	24.1	25	443
70 / 1015	75.8	80.6	52.4	55.9	60	849	32.8	37.5	25.9	28.0	30	461
80 / 1160	75.0	80.1	59.7	63.7	75	1014	31.7	37.0	29.6	32.1	40	571
90 / 1305	74.0	79.8	67.1	71.5	75	1014	30.6	36.5	33.3	35.9	40	571
100 / 1450	73.2	79.3	74.3	79.3	100	1290	29.9	36.2	36.9	39.8	50	783
110 / 1595	72.1	79.0	81.7	86.9	100	1290	–	–	–	–	–	–
120 / 1740	71.3	78.5	88.9	94.7	100	1290	–	–	–	–	–	–

¹⁾ Q_{Th}: Theoretical flow rate

Viscosity > 90 SSU more power consumption.

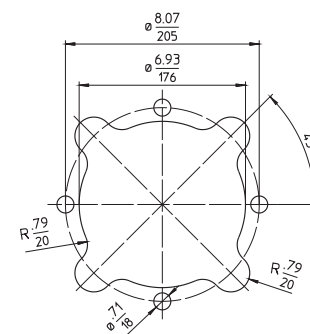
Characteristics and dimensions

TFS5, FFS5

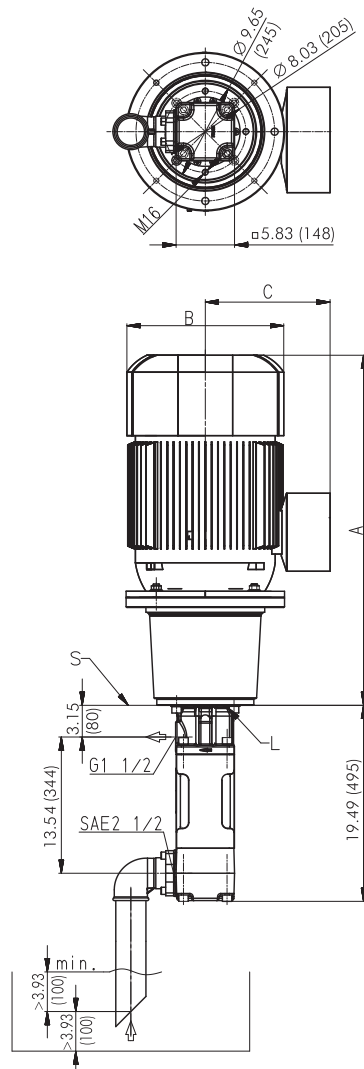
50 Hz

Mounting hole patterns

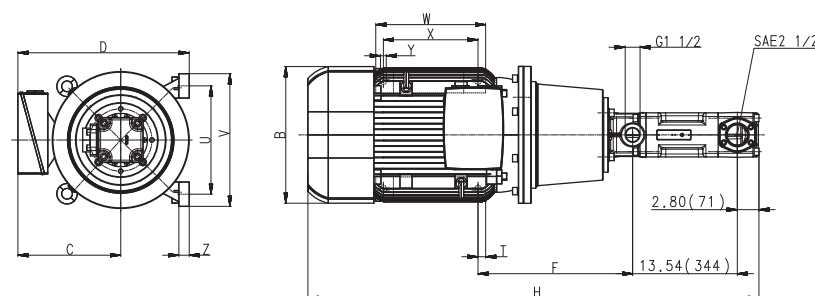
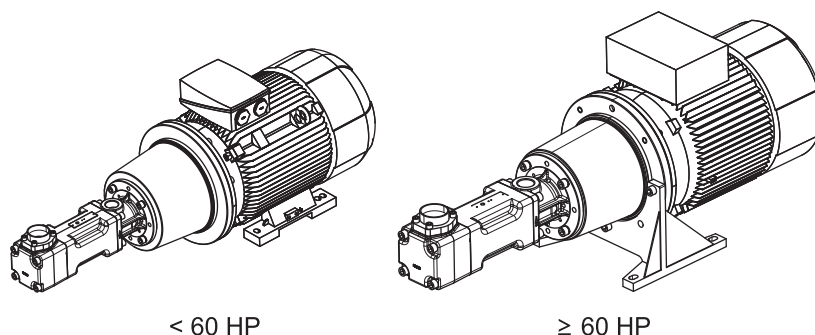
TFS5



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	F	H	T	U	V	W	X	Y	Z
Inch	Inch	Inch	Inch	Inch	Inch	Inch	Inch	Inch	Inch	Inch	Inch	Inch	Inch	Inch
–	5.4	22.87	8.74	6.97	13.07	8.98	42.36	0.89	8.46	9.84	9.06	7.28	0.55	0.59
10	7.5	26.46	10.31	7.95	15.24	8.74	45.94	0.89	10.43	11.81	10.63	8.86	0.55	0.71
–	10	26.81	10.31	7.95	15.24	8.74	46.30	0.89	10.43	11.81	10.63	8.86	0.55	0.71
15 / 20	15	30.20	12.36	9.33	18.58	9.33	49.68	0.79	11.81	13.78	12.01	10.43	0.71	0.71
25	20	32.56	12.36	9.33	18.58	9.33	52.05	0.79	11.81	13.78	12.01	10.43	0.71	0.71
–	25	32.72	14.02	11.26	20.51	9.33	52.20	0.79	11.81	13.78	12.01	10.43	0.71	0.71
30	–	32.56	14.02	11.26	20.51	9.33	52.05	0.79	11.81	13.78	12.01	10.43	0.71	0.71
–	30	33.90	14.02	11.26	20.51	9.33	53.39	0.79	11.81	13.78	12.01	10.43	0.71	0.71
40	–	34.80	15.59	12.40	22.64	8.94	54.29	0.98	13.78	15.75	13.78	11.81	0.71	0.79
50	40	35.79	15.59	12.40	22.64	8.94	55.28	0.98	13.78	15.75	13.78	11.81	0.71	0.79
–	50	36.57	17.68	13.31	24.92	8.78	55.98	0.98	15.75	17.72	15.16	13.19	0.71	0.79
60	–	38.86	17.68	13.31	22.17	20.00	58.35	0.98	14.02	17.17	14.21	12.24	0.75	1.34
75	–	41.69	19.57	16.14	25.98	22.05	61.18	1.18	15.98	19.29	16.10	13.74	0.94	1.57
100	–	44.57	21.69	17.05	28.07	22.91	64.05	2.19	17.99	21.26	18.86	14.49	0.94	1.57

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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 immersion version	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
TFS5120/	Q _{Th} ¹⁾ 103.5		–	–	–	–	Q _{Th} ¹⁾ 51.8		–	–	–	–
10 / 145	98.3	100.9	10.1	11.7	15	313	46.5	49.1	4.8	5.5	7.5	287
20 / 290	96.7	100.1	18.9	20.9	25	355	45.2	48.3	9.1	10.2	15	331
30 / 435	95.4	99.3	27.6	30.2	40	536	43.6	47.6	13.5	14.9	20	368
40 / 580	93.8	98.5	36.3	39.6	50	582	42.3	46.8	18.0	19.6	25	443
50 / 725	92.5	97.8	45.2	48.8	60	849	40.7	46.2	22.3	24.3	30	461
60 / 870	91.1	97.2	53.9	58.1	60	849	39.4	45.4	26.7	29.0	30	461
70 / 1015	89.8	96.7	62.6	67.3	75	1014	38.0	44.9	31.1	33.7	40	571
80 / 1160	88.8	96.2	71.3	76.6	100	1290	37.0	44.4	35.4	38.4	40	571
90 / 1305	87.5	95.6	80.2	85.8	100	1290	35.4	43.9	39.8	43.0	50	783
100 / 1450	86.4	95.1	88.9	95.2	100	1290	34.1	43.3	44.3	47.7	50	783
110 / 1595	85.1	94.6	97.6	104.5	125	1466	–	–	–	–	–	–
120 / 1740	84.0	94.3	106.5	113.7	125	1466	–	–	–	–	–	–
TFS5130/	Q _{Th} ¹⁾ 112.2		–	–	–	–	Q _{Th} ¹⁾ 56.1		–	–	–	–
10 / 145	106.5	108.9	10.9	12.3	20	333	50.5	52.6	5.1	5.8	7.5	287
20 / 290	104.6	107.5	20.2	22.1	25	355	48.6	51.5	9.9	10.7	15	331
30 / 435	102.8	106.2	29.8	31.8	40	536	46.8	50.2	14.6	15.7	20	368
40 / 580	101.2	105.2	39.3	41.6	50	582	45.2	49.1	19.3	20.5	25	443
50 / 725	99.6	104.1	48.8	51.4	60	849	43.6	47.8	24.1	25.5	30	461
60 / 870	98.0	103.0	58.2	61.2	75	1014	42.0	46.8	28.8	30.4	40	571
70 / 1015	96.7	102.0	67.7	70.8	75	1014	40.7	46.0	33.7	35.4	40	571
80 / 1160	95.4	100.9	77.2	80.6	100	1290	39.4	44.9	38.4	40.2	50	783
90 / 1305	94.3	100.1	86.8	90.4	100	1290	37.8	43.9	43.0	45.2	50	783
100 / 1450	93.0	99.1	96.2	100.2	125	1466	36.5	43.1	47.9	50.2	60	860
110 / 1595	91.7	98.3	105.7	109.8	125	1466	–	–	–	–	–	–
120 / 1740	90.6	97.5	115.2	119.6	150	1819	–	–	–	–	–	–

¹⁾ Q_{Th}: Theoretical flow rate

Viscosity > 90 SSU more power consumption.

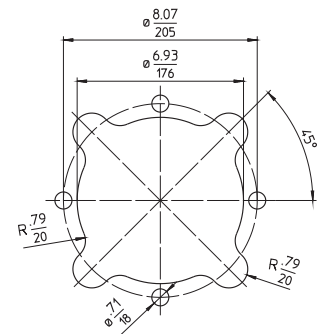
Characteristics and dimensions

TFS5, FFS5

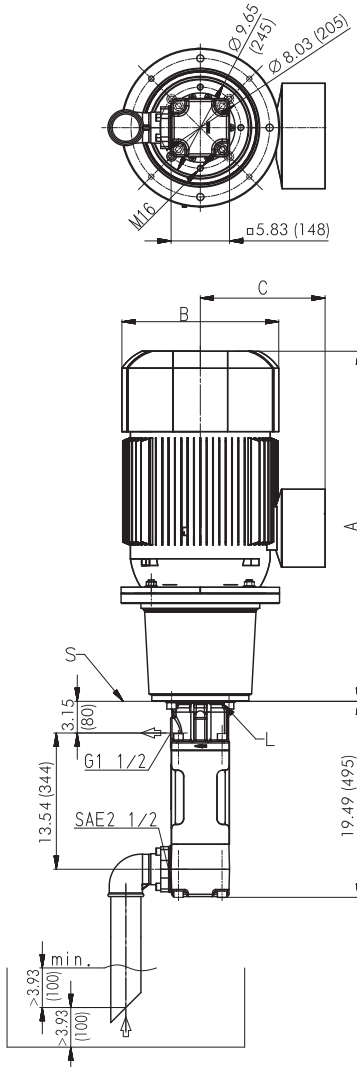
50 Hz

Mounting hole patterns

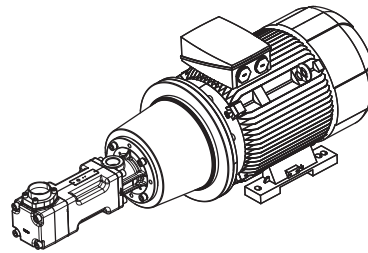
TFS5



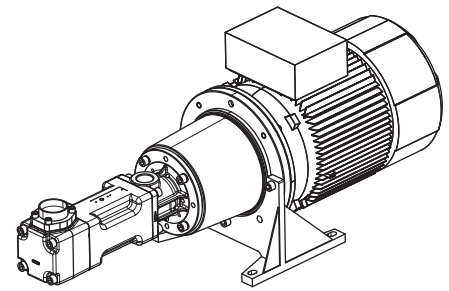
Dimensions in Inches / mm
All corners must be deburred!
According to ISO 2768-m



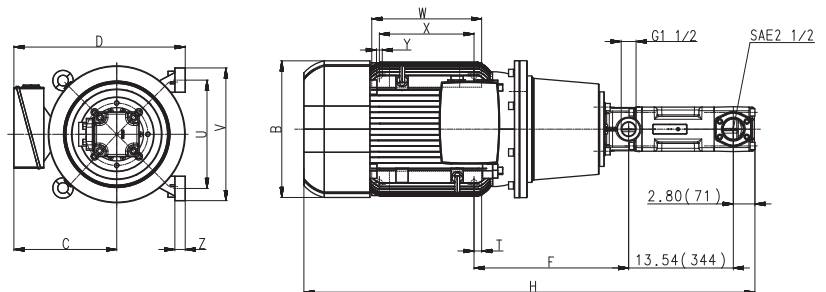
*) Dimensions for 4-pole standard motor upon request
L = Leakage hole
S = Mounting plate, please refer to the cut-out of mounting hole



< 60 HP



≥ 60 HP



Power 2-poles HP	Power 4-poles HP	A	B	C	D	F	H	T	U	V	W	X	Y	Z
Inch	Inch	Inch	Inch	Inch	Inch	Inch	Inch	Inch	Inch	Inch	Inch	Inch	Inch	Inch
—	7.5	26.46	10.31	7.95	15.24	8.74	45.94	0.89	10.43	11.81	10.63	8.86	0.55	0.71
15 / 20	15	30.20	12.36	9.33	18.58	9.33	49.68	0.79	11.81	13.78	12.01	10.43	0.71	0.71
25	20	32.56	12.36	9.33	18.58	9.33	52.05	0.79	11.81	13.78	12.01	10.43	0.71	0.71
—	25	32.72	14.02	11.26	20.51	9.33	52.20	0.79	11.81	13.78	12.01	10.43	0.71	0.71
—	30	33.90	14.02	11.26	20.51	9.33	53.39	0.79	11.81	13.78	12.01	10.43	0.71	0.71
40	—	34.80	15.59	12.40	22.64	8.94	54.29	0.98	13.78	15.75	13.78	11.81	0.71	0.79
50	40	35.79	15.59	12.40	22.64	8.94	55.28	0.98	13.78	15.75	13.78	11.81	0.71	0.79
—	50	36.57	17.68	13.31	24.92	8.78	55.98	0.98	15.75	17.72	15.16	13.19	0.71	0.79
60	60	38.86	17.68	13.31	22.17	20.00	58.35	0.98	14.02	17.17	14.21	12.24	0.75	1.34
75	—	41.69	19.57	16.14	25.98	22.05	61.18	1.18	15.98	19.29	16.10	13.74	0.94	1.57
100	—	44.57	21.69	17.05	28.07	22.91	64.05	2.19	17.99	21.26	18.86	14.49	0.94	1.57
125	—	48.94	21.69	17.05	28.07	22.91	68.43	1.18	17.99	21.26	18.86	16.50	0.94	1.57
150	—	48.78	24.25	20.28	32.68	24.53	68.27	1.38	20.00	24.02	20.75	15.98	1.10	1.97