

# High Pressure Pumps

## TFS5, FFS5

### 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
<b>TFS574/</b>	<b>Q<sub>Th</sub><sup>1)</sup> 77.0</b>		-	-	-	-	<b>Q<sub>Th</sub><sup>1)</sup> 38.5</b>		-	-	-	-
10 / 145	74.0	75.3	8.3	9.4	15	313	35.4	36.7	3.9	4.6	7.5	218
20 / 290	72.9	74.8	14.8	16.2	20	333	34.3	36.2	7.2	8.0	10	287
30 / 435	71.9	74.2	21.3	23.1	30	432	33.3	35.7	10.5	11.4	15	331
40 / 580	71.1	73.7	27.8	29.8	40	536	32.5	35.4	13.7	14.9	20	331
50 / 725	70.3	73.4	34.3	36.6	40	536	31.7	34.9	16.9	18.4	20	368
60 / 870	69.2	72.9	40.9	43.4	50	582	30.9	34.3	20.2	21.7	25	368
70 / 1015	68.7	72.4	47.3	50.3	60	849	30.1	34.1	23.5	25.2	30	443
80 / 1160	67.9	72.1	53.9	57.1	60	849	29.3	33.6	26.7	28.7	30	461
90 / 1305	67.1	71.6	60.3	64.0	75	1014	28.5	33.3	29.9	32.1	40	461
100 / 1450	66.6	71.3	66.9	70.7	75	1014	27.7	32.8	33.3	35.5	40	571
110 / 1595	65.8	71.1	73.4	77.5	100	1290	-	32.5	-	39.0	40	571
120 / 1740	65.3	70.5	79.9	84.4	100	1290	-	32.2	-	42.4	50	571
<b>TFS5100/</b>	<b>Q<sub>Th</sub><sup>1)</sup> 104.1</b>		-	-	-	-	<b>Q<sub>Th</sub><sup>1)</sup> 52.0</b>		-	-	-	-
10 / 145	99.9	102.0	10.6	11.7	15	313	47.8	49.9	5.1	5.8	7.5	287
20 / 290	98.8	101.2	19.3	20.9	25	355	46.8	49.1	9.5	10.5	15	287
30 / 435	97.8	100.7	28.2	30.3	40	536	45.7	48.6	13.9	15.2	20	331
40 / 580	96.7	100.1	37.0	39.6	50	582	44.6	48.1	18.2	19.8	25	368
50 / 725	95.6	99.6	45.7	48.8	60	849	43.6	47.6	22.7	24.5	30	443
60 / 870	94.6	99.1	54.6	58.2	75	1014	42.5	47.0	27.1	29.2	30	461
70 / 1015	93.8	98.5	63.4	67.5	75	1014	41.7	46.5	31.5	33.9	40	571
80 / 1160	92.7	98.0	72.1	76.8	100	1290	40.7	46.0	35.9	38.6	40	571
90 / 1305	91.9	97.5	81.0	86.1	100	1290	39.6	45.4	40.4	43.3	50	571
100 / 1450	91.1	97.2	89.8	95.3	100	1290	38.8	45.2	44.7	48.0	50	783
110 / 1595	90.4	96.7	98.6	104.7	125	1466	-	44.6	-	52.7	60	783
120 / 1740	89.3	96.4	107.4	114.0	125	1466	-	44.4	-	57.4	60	860

<sup>1)</sup> Q<sub>Th</sub>: Theoretical flow rate

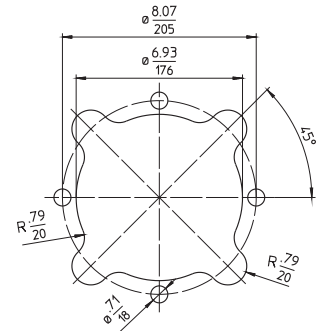
Viscosity > 90 SSU more power consumption.

# Characteristics and dimensions

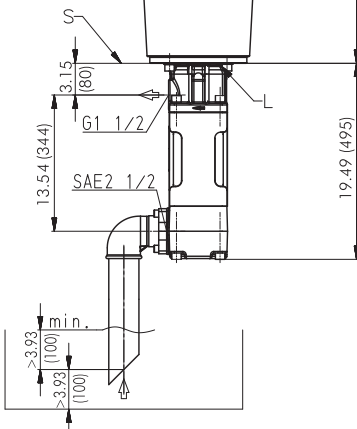
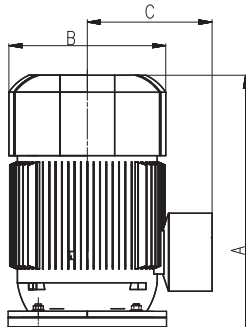
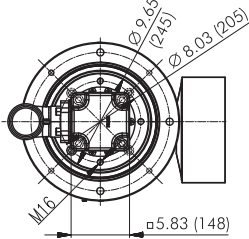
## TFS5, FFS5

### Mounting hole patterns

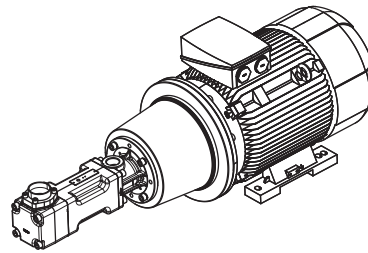
#### TFS5



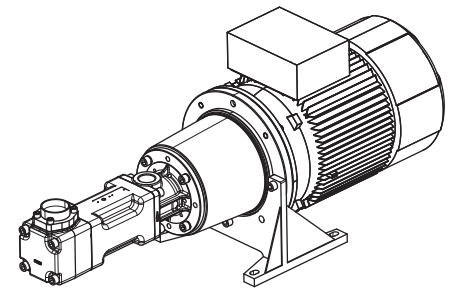
Dimensions in Inches / mm  
All corners must be deburred!  
According to ISO 2768-m



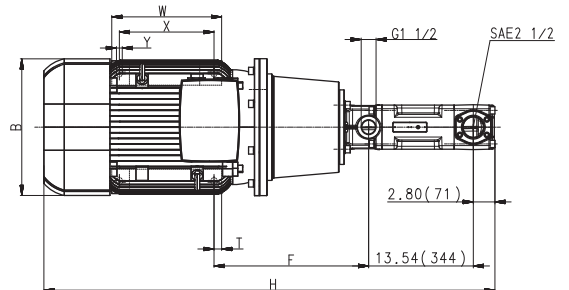
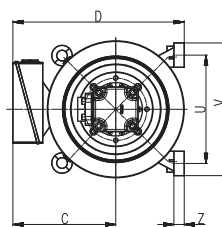
\*) Dimensions for 4-pole standard motor upon request  
L = Leakage hole  
S = Mounting plate, please refer to the cut-out of mounting hole



< 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
-	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
-	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
-	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	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

# High Pressure Pumps

## TFS5, FFS5

### Screw spindles



Pressure max.	2-pole motor rotation speed 3500 RPM						4-pole motor rotation speed 1750 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	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
<b>TFS5120/</b>	<b>Q<sub>Th</sub><sup>1)</sup> 124.9</b>		-	-	-	-	<b>Q<sub>Th</sub><sup>1)</sup> 62.5</b>		-	-	-	-
10 / 145	119.7	122.3	12.3	13.4	20	333	57.3	60.0	5.9	6.7	10	287
20 / 290	118.1	121.5	22.9	24.7	30	432	55.7	58.9	11.3	12.3	15	331
30 / 435	116.8	120.7	33.4	35.8	40	536	54.2	58.1	16.5	18.0	20	368
40 / 580	115.2	119.9	44.0	47.1	50	582	52.8	57.6	21.9	23.6	25	443
50 / 725	113.9	119.4	54.6	58.3	75	1014	51.5	56.8	27.1	29.2	30	461
60 / 870	112.5	118.6	65.2	69.6	75	1014	50.2	56.3	32.3	35.0	40	571
70 / 1015	111.2	118.1	75.8	80.7	100	1290	48.9	55.5	37.7	40.6	50	571
80 / 1160	110.2	117.6	86.2	92.0	100	1290	47.6	55.0	42.9	46.3	50	783
90 / 1305	108.9	117.0	96.8	103.3	125	1466	46.2	54.4	48.3	51.9	60	783
100 / 1450	107.8	116.5	107.4	114.5	125	1466	44.9	54.2	53.5	57.5	60	860
110 / 1595	106.5	116.2	118.0	125.7	150	1819	-	53.6	-	63.2	75	860
120 / 1740	105.4	115.7	128.5	136.9	150	1819	-	53.4	-	68.8	75	1091
<b>TFS5130/</b>	<b>Q<sub>Th</sub><sup>1)</sup> 135.3</b>		-	-	-	-	<b>Q<sub>Th</sub><sup>1)</sup> 67.7</b>		-	-	-	-
10 / 145	129.7	132.1	13.1	15.7	20	333	62.1	64.2	6.4	7.2	10	287
20 / 290	127.9	130.8	24.7	27.2	40	536	60.2	63.1	12.1	13.1	15	331
30 / 435	126.0	129.5	36.1	38.9	50	582	58.4	61.8	17.8	19.0	20	368
40 / 580	124.4	128.4	47.6	50.4	60	849	56.8	60.8	23.6	24.9	30	461
50 / 725	122.9	127.3	59.0	62.0	75	1014	55.2	59.4	29.2	30.8	40	571
60 / 870	121.3	126.0	70.4	73.5	100	1290	53.6	58.4	35.0	36.6	40	571
70 / 1015	119.9	125.2	81.9	85.2	100	1290	52.3	57.3	40.8	42.5	50	571
80 / 1160	118.6	124.2	93.3	96.7	100	1290	51.0	56.5	46.5	48.4	50	783
90 / 1305	117.3	123.1	104.7	108.2	125	1466	49.4	55.5	52.2	54.3	60	783
100 / 1450	116.2	122.3	116.3	119.8	125	1466	48.1	54.7	57.9	60.2	75	860
110 / 1595	-	121.5	-	131.4	150	1819	-	53.9	-	66.1	75	860
120 / 1740	-	120.7	-	143.0	150	1819	-	53.1	-	72.0	75	1091

<sup>1)</sup> Q<sub>Th</sub>: Theoretical flow rate

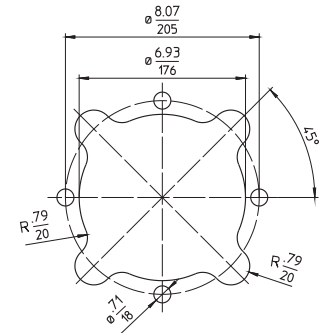
Viscosity > 90 SSU more power consumption.

# Characteristics and dimensions

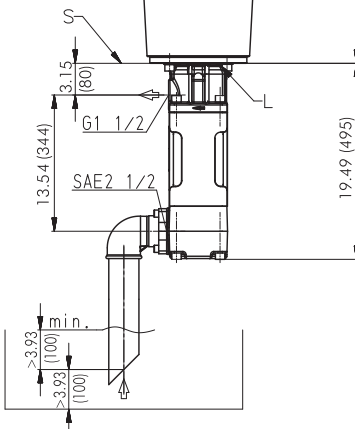
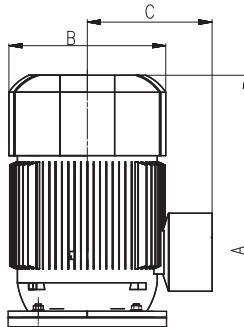
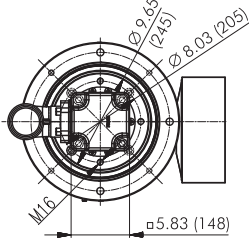
## TFS5, FFS5

### Mounting hole patterns

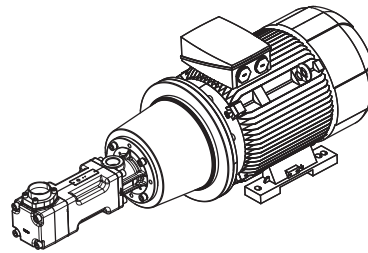
#### TFS5



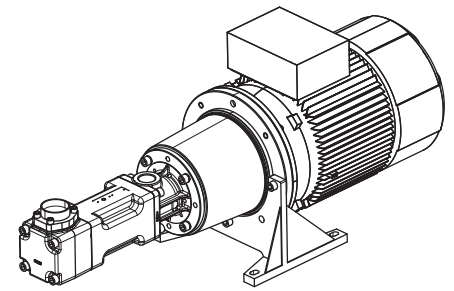
Dimensions in Inches / mm  
All corners must be deburred!  
According to ISO 2768-m



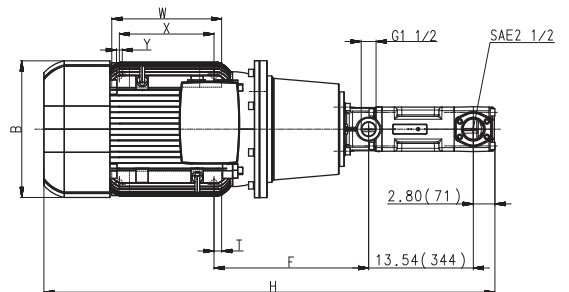
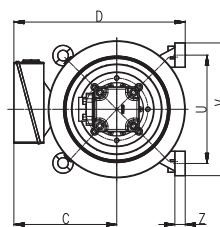
\*) Dimensions for 4-pole standard motor upon request  
L = Leakage hole  
S = Mounting plate, please refer to the cut-out of mounting hole



< 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
–	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
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
–	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
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	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	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