

2-pole motor rotation speed 3500 RPM							4-pole motor rotation speed 1750 RPM					
Pressure max.	Flow at viscosity		Power consumption at viscosity		Motor	Weight	Flow at viscosity		Power consumption at viscosity		Motor	Weight
	1 mm ² /s	20 mm ² /s	1 mm ² /s	20 mm ² /s			1 mm ² /s	20 mm ² /s	1 mm ² /s	20 mm ² /s		
Type / bar	l/min	l/min	kW	kW	kW	kg	l/min	l/min	kW	kW	kW	kg
TFS 460/	Q_{Th}¹⁾ 151.2 –		–	–	–	–	Q_{Th}¹⁾ 75.6 –		–	–	–	–
10	144	147	3.3	3.7	4.6	74	68	72	1.6	1.6	1.75	57
20	141	146	5.8	6.4	8.6	96	65	70	2.8	2.9	3.45	64
30	138	144	8.4	9.0	12.6	115	63	69	4.1	4.3	4.6	76
40	136	143	10.9	11.7	12.6	115	60	67	5.3	5.6	6.3	85
50	133	142	13.4	14.4	17.3	124	57	66	6.6	7.0	8.6	100
60	131	140	15.9	17.0	17.3	124	55	65	7.9	8.4	8.6	100
70	128	139	18.4	19.7	21.3	144	53	63	9.1	9.7	12.6	123
80	126	138	21.0	22.3	24.5	173	50	62	10.4	11.1	12.6	123
90	124	137	23.5	25.0	33.5	230	–	61	–	12.4	12.6	123
100	122	136	26.0	27.7	33.5	230	–	60	–	13.8	17.3	149
110	–	135	–	30.3	33.5	230	–	59	–	15.2	17.3	149
120	–	134	–	33.0	41.5	259	–	58	–	16.5	17.3	149
TFS 480/	Q_{Th}¹⁾ 201.7 –		–	–	–	–	Q_{Th}¹⁾ 100.8 –		–	–	–	–
10	192	197	4.2	4.9	6.3	83	91	96	2.0	2.1	2.55	64
20	188	194	7.5	8.5	12.6	115	87	94	3.7	3.9	4.6	76
30	184	192	10.9	12.1	12.6	115	84	91	5.3	5.7	6.3	85
40	181	190	14.2	15.6	17.3	124	80	89	7.0	7.5	8.6	100
50	178	188	17.6	19.2	21.3	144	77	88	8.7	9.3	12.6	123
60	175	187	21.0	22.8	24.5	173	74	86	10.4	11.1	12.6	123
70	172	185	24.3	26.4	33.5	230	71	84	12.1	12.9	17.3	149
80	169	183	27.7	30.0	33.5	230	68	83	13.7	14.7	17.3	149
90	166	182	31.1	33.6	41.5	259	–	81	–	16.5	17.3	149
100	164	181	34.4	37.1	41.5	259	–	80	–	18.3	21.3	168
110	–	180	–	40.7	41.5	259	–	79	–	20.1	21.3	168
120	–	179	–	44.3	51.0	374	–	78	–	21.9	24.5	188
TFS 496/	Q_{Th}¹⁾ 242.0 –		–	–	–	–	Q_{Th}¹⁾ 121.0 –		–	–	–	–
10	231	236	4.8	5.6	8.6	96	110	115	2.3	2.7	3.45	64
20	226	234	8.9	9.9	12.6	115	105	113	4.3	4.8	6.3	85
30	222	231	12.9	14.2	17.3	124	101	110	6.3	7.0	8.6	100
40	218	229	16.9	18.5	21.3	144	97	108	8.4	9.1	12.6	123
50	214	227	21.0	22.8	24.5	173	93	106	10.4	11.3	12.6	123
60	211	224	25.0	27.1	33.5	230	90	103	12.4	13.5	17.3	149
70	207	222	29.0	31.4	33.5	230	86	101	14.4	15.6	17.3	149
80	204	220	33.1	35.7	41.5	259	83	99	16.4	17.8	21.3	168
90	201	218	37.1	40.0	41.5	259	–	97	–	19.9	21.3	168
100	198	216	41.1	44.3	51.0	374	–	95	–	22.1	24.5	188
110	–	214	–	48.6	51.0	374	–	93	–	24.3	33.5	244
120	–	212	–	52.9	62.0	469	–	91	–	26.4	33.5	244

¹⁾ Q_{Th}: Theoretical flow rate

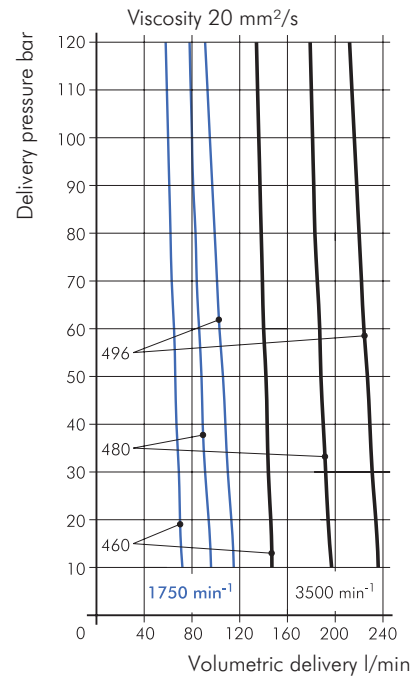
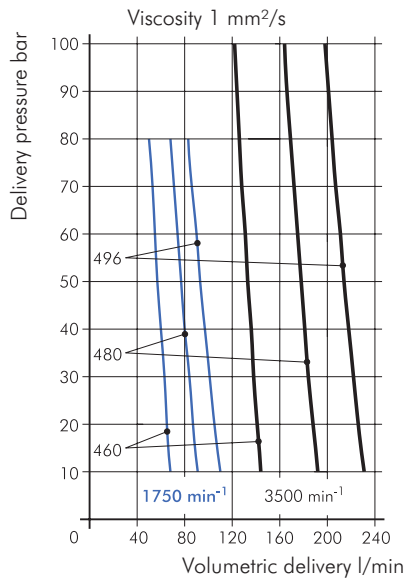
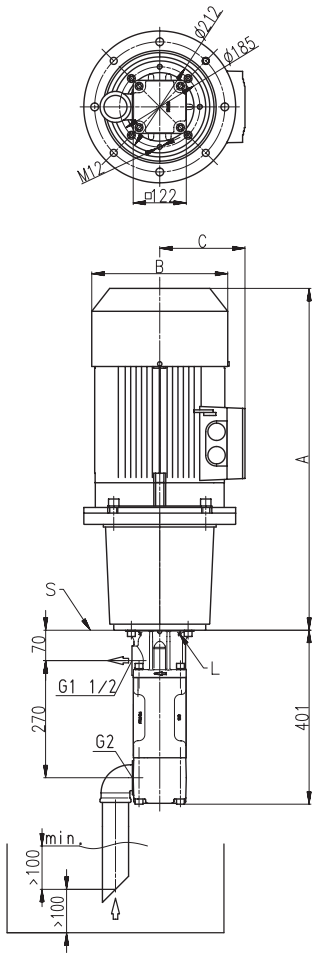


High pressure pumps

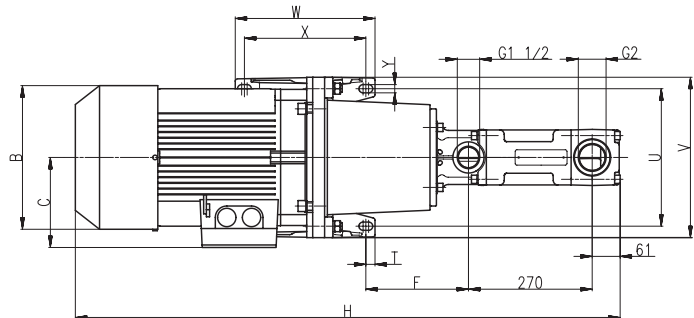
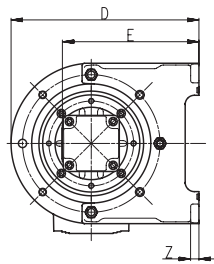
Screw spindles

TFS/FFS - 460 - 480 - 496

60 Hz



L = Leakage hole
S = Mounting plate, please find the cut-out of mounting hole on page 43.



For mounting patterns of foot-mounted motors larger than 45 kW please refer to page 35.

Motor 2 pole kW	Motor 4 pole kW	A	B	C	D	E	F	H	T	U	V	W	X	Y	Z
		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
2.55	1.75	471	183	128	212	175	138	872	15.0	180	210	90	60	11	12
3.45	2.55	536	203	135	280	218	179	937	22.5	215	250	230	185	14	15
-	3.45	571	203	135	280	218	179	972	22.5	215	250	230	185	14	15
4.6	4.6	562	227	148	280	218	179	963	22.5	215	250	230	185	14	15
6.3	6.3	583	267	167	335	248	185	984	22.5	265	300	270	225	14	18
8.6	8.6	659	267	167	335	248	185	1060	22.5	265	300	270	225	14	18
12.6 / 17.3	12.6	748	320	197	410	298	225	1149	20.0	300	350	305	265	18	18
21.3	17.3	828	320	197	410	298	225	1229	20.0	300	350	305	265	18	18
24.5	21.3 / 24.5	873	363	258	410	298	225	1273	20.0	300	350	305	265	18	18
33.5 / 41.5	33.5	930	402	305	400	263	473	1332	25.0	318	398	355	305	25	34
51	-	1037	402	328	450	288	531	1518	37.0	356	436	361	286	25	34
62	-	1093	505	392	525	313	560	1586	30.0	406	506	409	349	30	42

