

# High Pressure Pumps

## TFS6, FFS6

### Screw spindles



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 <sup>2</sup> /s	20 mm <sup>2</sup> /s	1 mm <sup>2</sup> /s	20 mm <sup>2</sup> /s	IE3	NEMA		IE3	1 mm <sup>2</sup> /s	20 mm <sup>2</sup> /s	1 mm <sup>2</sup> /s	20 mm <sup>2</sup> /s	IE3	
Type / bar	l/min	l/min	kW	kW	kW	kW	kg	l/min	l/min	kW	kW	kW	kW	kg
<b>TFS690/</b>	<b>Q<sub>Th</sub><sup>1)</sup> 554</b>		–	–	–	–	–	<b>Q<sub>Th</sub><sup>1)</sup> 277</b>		–	–	–	–	–
10	540	545	11.6	13.3	17.3	18.5	199	263	268	5.6	6.2	8.6	7.5	178
20	532	540	20.9	22.6	33.5	30.0	291	255	263	10.2	10.8	12.6	15.0	198
30	524	535	30.1	31.8	41.5	37.0	312	247	258	14.9	15.5	17.3	18.5	215
40	516	531	39.3	41.0	51.0	45.0	433	239	254	19.5	20.1	25.3	22.0	257
50	509	527	48.6	50.3	62.0	55.0	508	232	250	24.1	24.7	34.5	30.0	307
60	502	523	57.8	59.5	62.0	75.0	508	225	246	28.7	29.3	34.5	37.0	307
70	496	519	67.0	68.7	84.0	75.0	633	219	242	33.3	33.9	42.5	37.0	403
80	490	515	76.3	78.0	84.0	90.0	633	213	238	37.9	38.5	42.5	45.0	403
<b>TFS6120/</b>	<b>Q<sub>Th</sub><sup>1)</sup> 739</b>		–	–	–	–	–	<b>Q<sub>Th</sub><sup>1)</sup> 369</b>		–	–	–	–	–
10	720	726	14.7	16.4	21.3	22.0	209	351	357	7.2	7.8	12.6	11.0	198
20	710	721	27.0	28.7	33.5	37.0	291	341	351	13.3	13.9	17.3	18.5	215
30	701	715	39.3	41.0	51.0	45.0	433	331	346	19.5	20.1	21.3	22.0	249
40	692	710	51.6	53.3	62.0	75.0	508	322	340	25.6	26.2	34.5	30.0	307
50	683	704	64.0	65.7	84.0	75.0	633	314	335	31.8	32.4	34.5	37.0	307
60	676	699	76.3	78.0	84.0	90.0	633	306	330	37.9	38.5	42.5	45.0	403
70	668	695	88.6	90.3	101.0	110.0	713	299	325	44.1	44.7	52.0	55.0	438
80	659	689	101.0	103.0	123.0	110.0	872	290	320	50.2	50.8	63.0	55.0	543
<b>TFS6145/</b>	<b>Q<sub>Th</sub><sup>1)</sup> 893</b>		–	–	–	–	–	<b>Q<sub>Th</sub><sup>1)</sup> 446</b>		–	–	–	–	–
10	870	878	17.3	19.0	25.3	30.0	237	424	432	8.4	9.0	12.6	11.0	198
20	857	868	32.2	33.9	41.5	45.0	312	411	422	15.9	16.5	21.3	18.5	249
30	845	859	47.0	48.7	62.0	55.0	508	398	413	23.3	23.9	34.5	30.0	307
40	833	851	61.9	63.6	84.0	75.0	633	386	405	30.8	31.4	34.5	37.0	307
50	822	844	76.8	78.5	84.0	90.0	633	375	397	38.2	38.8	42.5	45.0	403
60	811	837	91.7	93.4	101.0	110.0	713	365	391	45.6	46.2	52.0	55.0	438
70	799	829	106.6	108.3	123.0	110.0	872	353	382	53.1	53.7	63.0	55.0	543

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

Viscosity > 20 mm<sup>2</sup>/s more power consumption.

All 6 series screw pumps with an operating flow rate of 800 l/min or above must be operated with a feed pump which supplies fluid with at least 1bar of pressure to the pump inlet.

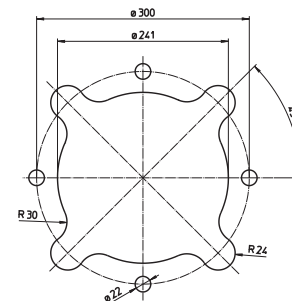
# Characteristics and dimensions

## TFS6, FFS6

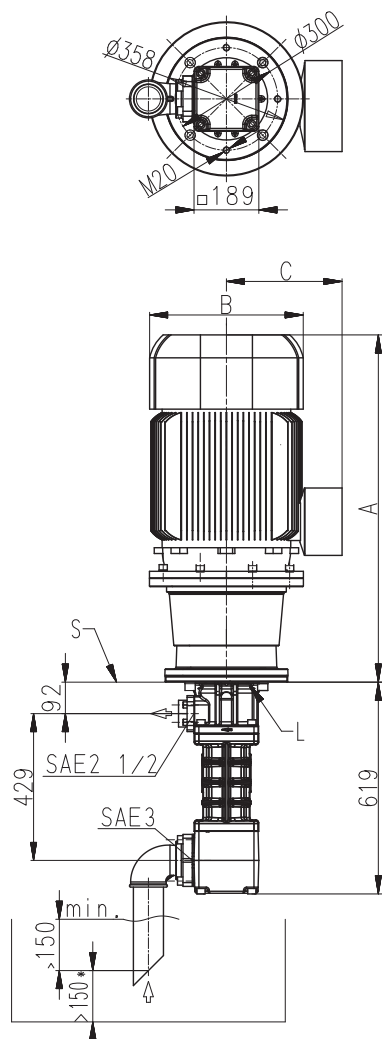
60 Hz

Mounting hole patterns

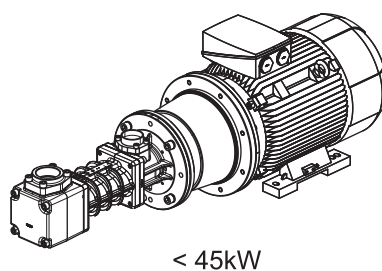
TFS6



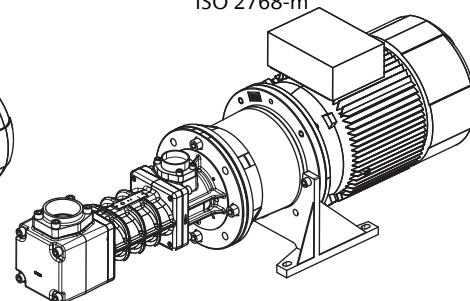
All corners must be deburred!  
According to ISO 2768-m



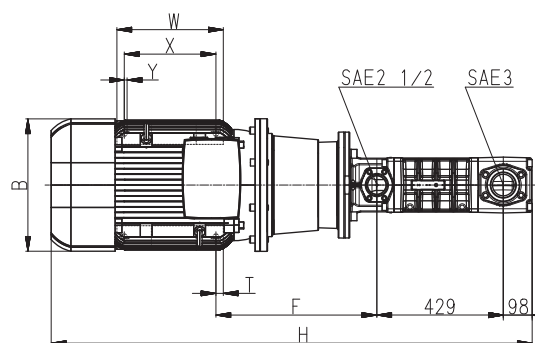
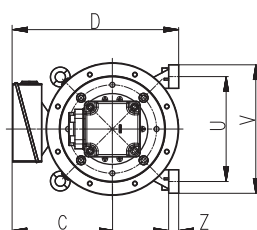
L = Leakage hole  
S = Mounting plate, please refer to the cut-out of mounting hole



< 45kW



≥ 45kW



Power 2-poles kW	Power 4-poles kW	A	B	C	D	F	H	T	U	V	W	X	Y	Z
		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
–	7.5 / 8.6	723	262	202	387	242	1342	22.5	265	300	270	225	14	18
–	11.0 / 12.6	795	314	237	472	242	1414	20	300	350	305	265	18	18
–	15.0 / 17.3	855	314	237	472	265	1474	20	300	350	305	265	18	18
17.3	–	795	314	237	497	242	1414	25	350	400	350	300	18	20
18.5 / 21.3	–	855	314	237	497	242	1474	25	350	400	350	300	18	20
–	18.5 / 21.3	859	356	286	521	265	1478	20	300	350	305	265	18	18
22.0 / 25.3	–	855	356	286	546	242	1474	25	350	400	350	300	18	20
–	22.0 / 25.3	889	356	286	521	397	1508	20	300	350	305	265	18	18
30.0 / 33.5	–	910	396	315	575	265	1529	25	350	400	350	300	18	20
–	30.0 / 34.5	935	396	315	575	417	1554	25	350	400	350	300	18	20
37.0 / 41.5	–	935	396	315	575	265	1554	25	350	400	350	300	18	20
–	37.0 / 42.5	973	449	338	633	432	1592	25	400	450	385	335	18	20
45.0 / 51.0	45.0 / 52.0	1013	449	338	563	546	1632	25	356	436	361	311	19	34
55.0 / 62.0	–	1072	497	410	660	585	1691	30	406	490	409	349	24	40
–	55.0 / 63.0	1087	497	410	660	600	1706	30	406	490	409	349	24	40
75.0	–	1160	551	433	713	622	1779	55.5	457	540	479	368	24	40
84.0 / 90.0 / 101.0	–	1270	551	433	713	622	1889	30	457	540	479	419	24	40
110.0 / 123.0	–	1242	616	515	830	638	1861	60.5	508	610	527	406	28	50