

## Submersible pumps for drainage and sewage

### Applications

Emptying of septic tanks, cesspools, sewage collection wells, pumping of sewage water with solids in suspension by means of vortex impeller.

### Materials

Outer casing, suction filter, support, counter flange, cover, handle and impeller in AISI 304 stainless steel.  
 Motor flange mount and pump body in cast iron (G20).  
 Mechanical seal on pump side in silicon carbide and alumina and NBR ring on motor side.  
 O-ring: NBR.  
 Motor shaft pump side in stainless steel AISI 316.

### Motor

Asynchronous two poles with oil bath lubrication.  
 Oil-filled motor.  
 IP 68 protection.  
 Class F isolation.

### Limitations

Maximum immersion: 5 m.  
 Maximum liquid temperature: 50 °C.  
 Maximum passage of solids: Ø30 mm.

### Features

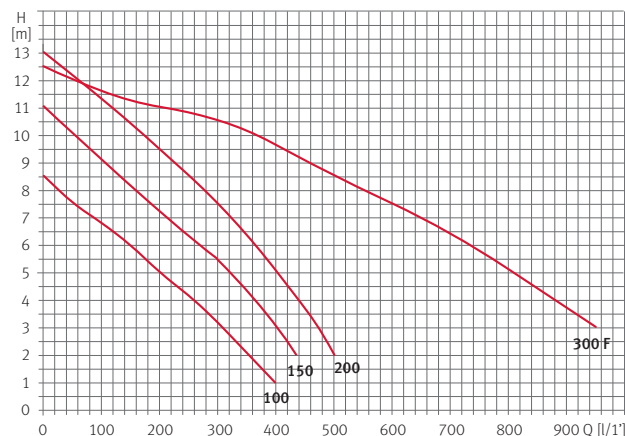
10m long power cable  
**TGR M:** without float switch  
**TGR M A:** c/w float switch  
**TGR T:** three phase without float switch  
**TGR F:** three phase with flanged discharge



### Hydraulic performance table

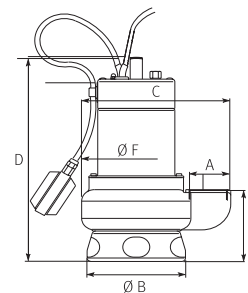
Model	I [A]		P1 [kW]	P2		l/min m³/h	0	100	200	300	400	500	700	950	1~230 V (Model M A)	3~400 V (Model T)
	1~230 V	3~400 V		[kW]	[HP]		0	6	12	18	24	30	42	57	Code	Code
	TGR 100	7		3.2	1.3		0.75	1	8.5	6.8	5	3.2	1			
TGR 150	11.5	4.5	1.7	1.1	1.5	11	9	7.3	5.6	3.2				TGR 150 MA	TGR 150T	
TGR 200		4.8	2.2	1.5	2	13	11.2	9.5	7.5	3.2					TGR 200T	
TGR 300 F		6.5	3.5	2.25	3	12.5	11.5	11	10.5	9.6	8.5	6.5	3		TGR 300F	

### Performance curves at 2900 rpm



### Dimensions and weights

Model	A	B	C	D	E	F	G	[Kg]
TGR 100	2"	150	232	396	125	50	150	13
TGR 150	2"	150	232	396	125	180	150	15
TGR 200	2"	150	232	396	125	180	150	15
TGR 300 F	3"	214	290	523	133	170	253	32



\*Service kits are available on request