

## Fixed Displacement Bent Axis Piston Motor T2FM

Size 16.....180

Series 61

Nominal pressure upto 40 MPa



for open and closed circuit

### Features

- Fixed displacement motor T2FM of axial piston, bent axis design, suitable for hydrostatic drives in open and closed circuits
- Use in mobile and industrial applications
- Output speed is proportional to input flow and inversely proportional to displacement
- Drive torque increases with the pressure drop across the unit
- Careful selection of the displacements offered, permit sizes to be matched to practically every application
- Favourable power / weight ratio      – Compact design
- Optimum efficiency                      – Economical conception      – One piece pistons with piston rings

### Table of values

Size			16	23	28	32	45	56	63	80		
Displacement	$V_g$	cm <sup>3</sup>	16	22,9	28,1	32	45,6	56,1	63	80,4		
Max. Speed	$n_{max}$	min <sup>-1</sup>	8000	6300	6300	6300	5600	5000	5000	4500		
	$n_{max\ intermit.}$	min <sup>-1</sup>	8800	6900	6900	6900	6200	5500	5500	5000		
Max. flow	$n_{max}$	$q_{V\ max}$	L/min	128	144	176	201	255	280	315	360	
Torque constants	$T_k$	Nm/MPa	2,5	3,6	4,45	5,09	7,25	8,9	10	12,7		
Torque at	$\Delta p = 35\ MPa$	$T$	Nm	24,7	88	126	156	178	254	312	350	445
	$\Delta p = 40\ MPa$	$T$	Nm	–	100	144	178	204	290	356	400	508
Case volume		L	0,17	0,20	0,20	0,20	0,33	0,45	0,45	0,55		
Moment of inertia about drive axis	$J$	kgm <sup>2</sup>	0,0004	0,0012	0,0012	0,0012	0,0024	0,0042	0,0042	0,0072		
Weight (approx.)	$m$	kg	5,4	9,5	9,5	9,5	13,5	18	18	23		

Size			90	107	125	160	180	
Displacement	$V_g$	cm <sup>3</sup>	90	105,7	125	160,4	180	
Max. Speed	$n_{max}$	min <sup>-1</sup>	4500	4000	4000	3600	3600	
	$n_{max\ intermit.}$	min <sup>-1</sup>	5000	4400	4400	4000	4000	
Max. flow	$n_{max}$	$q_{V\ max}$	L/min	405	427	500	577	648
Torque constants	$T_k$	Nm/MPa	1,43	17	19,9	25,4	28,6	31,8
Torque at	$\Delta p = 35\ MPa$	$T$	Nm	501	595	697	889	1001
	$\Delta p = 40\ MPa$	$T$	Nm	572	680	796	1016	1144
Case volume		L	0,55	0,8	0,8	1,1	1,1	
Moment of inertia about drive axis	$j$	kgm <sup>2</sup>	0,0072	0,0116	0,0116	0,0220	0,0220	
Weight (approx.)	$m$	kg	23	32	32	45	45	



