

Fixed Displacement Bent Axis Piston Plug-In Motor T2FE

Nominal size 28...180cc/rev

Pressure up to 40 Mpa



for open and closed circuit

Features

The fixed displacement plug-in motor T2FE is equipped with a standard axial tapered piston rotary group of bent axis design.

Hydrostatic plug-in motors are intended primarily for installation in mechanical gearboxes, e.g. track drive gear boxes.

The design of the motor with the mounting flange in the centre of the housing allows it to be almost fully integrated into a mechanical gearbox to give an extremely compact unit.

- complete unit, ready assembled and tested
- easy assembly, simply “plugs-in” to mechanical gearboxes
- no installation tolerances to consider

Table of values

Size			28	32	45	56	63	80	90	107	125	160	180
Displacement	V_g	cm ³	28,1	32,0	45,6	56,1	63,0	80,4	90,0	106,7	125,0	160,4	180,0
Max. speed	n_{max}	rpm	6300	6300	5600	5000	5000	4500	4500	4000	4000	3600	3600
	$n_{max\ interm.}$	rpm	6900	6900	6200	5500	5500	5000	5000	4400	4400	4000	4000
Max. flow	$q_{V\ max}$	L/min	176	201	255	280	315	360	405	427	500	577	648
Torque constants	T_K	Nm/bar	0,445	0,509	0,725	0,89	1,0	1,27	1,43	1,70	1,99	2,54	2,86
Torque, $\Delta p = 40\text{Mpa}$	T	Nm	178	204	290	356	400	508	572	680	796	1016	1144
Case volume		L	0,20	0,20	0,33	0,45	0,45	0,55	0,55	0,8	0,8	1,1	1,1
Moment of inertia	J	kgm ²	0,0012	0,0012	0,0024	0,0042	0,0042	0,0072	0,0072	0,0116	0,0116	0,0220	0,0220
Weight (approx.)	m	kg	10,5	10,5	15	18	19	23	25	34	36	47	48

T2FE- Ordering Code / Standard Program

T2F												E	/	6	W	-																						
Hydraulic Fluid																																						
Mineral oil (no code)																																						
HF-fluids sizes 28...180 (no code)																																						
												E-																										
Axial piston unit																																						
Bent axis design, fixed displacement												T2F																										
Drive shaft bearings																																						
mechanical bearings (no code)												●																										
Mode of operation																																						
Plug-in motor												E																										
Size																																						
Displacement V_g (cm ³)												28	32	45	56	63	80	90	107	125	160	180																
Series																																						
																																			6.			
Index																																						
sizes 28...180																																				1		
Direction of rotation																																						
viewed on shaft end																																				W		
Seals																																						
																																				28...180		
NBR (nitril-caoutchouc)												●	N																									
FPM (fluor-caoutchouc)												●	V																									
Shaft end																																						
Splined shaft end												●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	A	
												●	-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	Z			
Mounting flange																																						
																																						28...180
Special 2-hole flange												●	L																									

Service line connections																
Ports A and B SAE, rear end	01	0	●	●	●	●	●	●	●	●	●	●	●	●	●	010
Ports A and B SAE at side, same side (metr. mounting threads)	10	0	●	●	●	●	●	●	●	●	●	●	●	●	●	100
		6	●	●	●	●	●	●	●	-	-	-	-	-	-	106
port plate with integrated pressure relief valves, for mounting a motion control valve	17	1	-	-	-	-	-	-	-	●	●	-	-	-	-	171
port plate with integrated pressure relief valves, for mounting a motion control valve	18	1	●	●	●	●	●	●	●	●	●	●	●	●	●	181
port plate with integrated pressure relief valves	19	1	●	●	●	●	●	●	●	●	●	●	●	●	●	191
		2	●	●	●	●	●	●	●	●	●	●	●	●	●	192

Valves		
without valves (no code)		0
with pressure relief valves (<i>without</i> pressure sequence range)		1
with pressure relief valves (<i>with</i> pressure sequence range)		2
with integrated flushing valve		6

= preferred type

= available
 = not available

