### Short Description



## **Fixed Plug-In Motors FMF**



The Liebherr axial piston motor FMF series is developed for the open and closed circuit in swash plate design. The fixed plug-in motors are available in finely graded nominal sizes ranging from 25 to 250 cm<sup>3</sup>. The nominal pressure is 350/420 bar and maximum pressure 380/450 bar, depending on its size.

### **Special Features**

Various flushing and pressure valves for the open and closed circuit are integrated into the port plate.

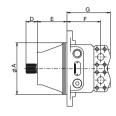
Speed sensor or preparation for speed sensor available on request.

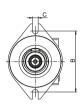
### Technical Data



# Series A: FMF plug-in motor







#### **FMF**

fixed displacement, open and closed circuit, nominal pressure 350\*/420 bar, maximum pressure 380\*/450 (\*ns 25-32, 90-250)

Nominal size		25	32	45	58	64	90	100	125	165	250
Displacement	V <sub>g max</sub> [cm <sup>3</sup> ]	25	31.8	45.6	58.3	64.3	90.7	103.2	125.6	165.9	256.8
Max. speed	at $V_{g \text{ max}}$ and $\Delta p = 330$ bar, $n_{max}$ [rpm]	5,180	5,180	4,620	4,110	4,110	3,670	3,540	3,290	3,000	2,606
Flow	at n <sub>max</sub> , q <sub>v max</sub> [I/min]	130	165	211	240	264	333	365	413	498	669
Output power	$\Delta p = 330 \text{ bar, } P_{\text{max}} [kW]$	71	91	116	132	145	183	201	227	274	368
Output torque	$\Delta p = 330 \text{ bar, T}_{\text{max}} [\text{Nm}]$	131	167	240	306	338	477	542	660	872	1,349

#### Technical Data

Product dimensions (mm)*		25	32	45	58	64
Splined shaft profile	DIN 5480 Tol. 9g	W25x1.25x18	W25x1.25x18	W30x2x14	W35x2x16	W35x2x16
Centering diameter	A fit h8	135	135	160	170	170
Screw connecting pitch	В	160	160	200	200	200
Fastening bores	С	13	13	18	17	17
Splined shaft length	D	30	30	35	40	40
Insertion length		88.5	88.5	92.3	92.3	92.3
Connection length, SAE flanges	Е	91	91	99.7	122.7	122.7
Overall length	F	134.5	134.5	156.2	163.7	163.7
Pressure ports	SAE J518 (6,000 psi)	1/2"	1/2"	3/4"	1"	3/4" oder 1"
Oil leakage port		M16 x 1.5	M16 x 1.5	M18 x 1.5	M18 x 1.5	M33 x 2

Product dimensions (mm)*		90	100	125	165	250
Splined shaft profile	DIN 5480 Tol. 9g	W35x2x16	W40x2x18	W40x2x18	W45x2x21	W50x2x24
Centering diameter	A fit h8	190	190	210	230	260
Screw connecting pitch	В	224	224	248	280	310
Fastening bores	С	21	21	21	26	26
Splined shaft length	D	40	45	45	50	55
Insertion length		110.5	110.5	122.8	130	145
Connection length, SAE flanges	Е	124	124	142	155	163 2/3
Overall length	F	159	159	179,2	201	214
Pressure ports	SAE J518 (6,000 psi)	1"	1"	1 1/4"	1 1/4"	1 1/4"
Oil leakage port		M26 x 1.5	R 3/4"	R 3/4"	M33 x 2	M33 x 2

<sup>\*</sup> Dimensions may vary according to configuration and additional equipment (installation drawing on request).

#### Note:

External brake valve can be attached to SAE port.

Beijing Reliance M&E Equipment Techy Co.,Ltd.

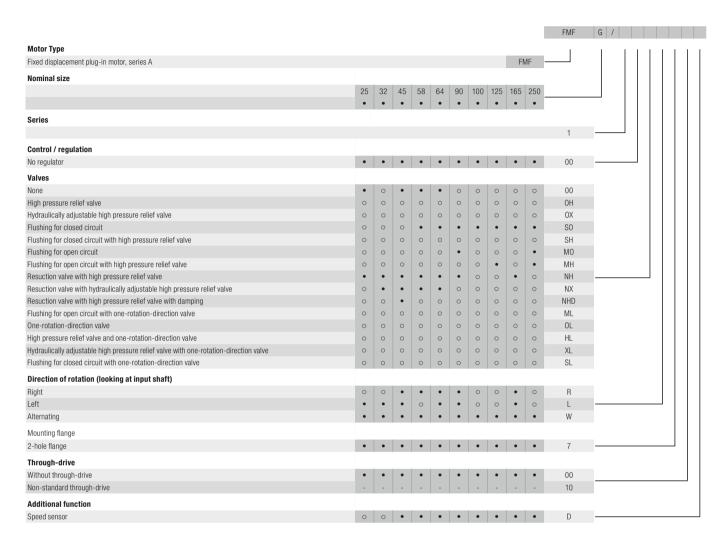
北京市丰台科技园富丰路2号星火科技大厦1809

Room 1809. Xinghuo Science Building. No.2 Fufeng Road, Fengtai District, Beijing

Tel:+86 10 83683529/83683938 Fax: +86 10 83683592



### Type code for FMF motors



- Available
- On request
- Not available

Tel:+86 10 83683529/83683938 Fax: +86 10 83683592