

LMG series

IEC electric motor range from size 63 up to size 225



Technical data

Bell-Housing - IEC electric motor range from size 63 up to size 225

Materials

- Bell-housing: Pressure die casting Aluminium
- Center ring: Galvanized Steel
- Gasket: Special paper - Guarnital

Compatibility with fluids

Modular bell-housing components compatible for use with:

- Mineral oils types HH-LL-HM-HR-HV-HC, to ISO 6743/4 standard
- Water based emulsions types HFAE-HFAS, to ISO 6743/4 standard
- Water glycol type HFC, to ISO 6743/4 standard: ask for anodized version

Special Applications

Any applications not covered by the normal indications contained in this catalogue must be evaluated and approved by MP Filtri Technical and Sales Department

Temperature

From -30 °C to +80 °C

Note

For temperatures outside this range, contact MP Filtri Technical and Sales Department



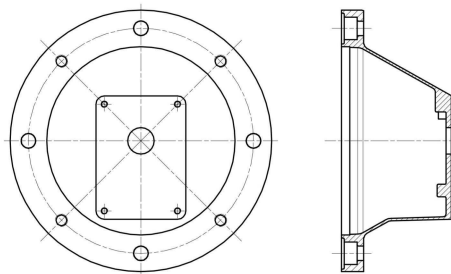
IEC Electric motors

Bell-Housing size	European standard size						German standard size			IEC Motors size
	0.5	1	2	3	3.5	4	ZB	ZF	ZG	
LMG140	●	●	●				●			IEC 63 ø 140 - ø 11x23
LMG160	●	●	●				●			IEC 71 ø 160 - ø 14x30
LMG200	●	●	●	●			●	●		IEC 80 ø 200 - ø 19x40
LMG200	●	●	●	●			●	●		IEC 90 ø 200 - ø 24x50
LMG250		●	●	●	●		●	●		IEC 110 ø 250 - ø 28x60
LMG250		●	●	●	●		●	●		IEC 112 ø 250 - ø 28x60
LMG300		●	●	●	●	●		●	●	IEC 132 ø 300 - ø 38x80
LMG351			●	●	●	●	●	●	●	IEC 160 ø 350 - ø 42x110
LMG351			●	●	●	●	●	●	●	IEC 180 ø 350 - ø 48x110
LMG400			●	●	●	●	●	●	●	IEC 200 ø 400 - ø 55x110
LMG450			●	●	●	●	●	●	●	IEC 225 ø 450 - ø 60x140

Note: For specific information see pages 58 ÷ 60 "Table of Combination"

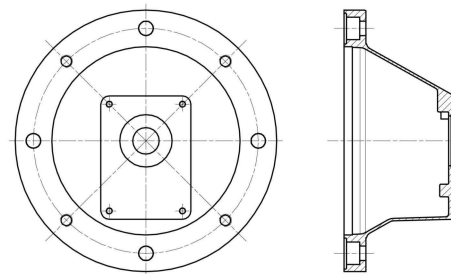
LMG * 4S**

Without centre ring allowing removal of half-coupling (which as a rule is keyed permanently to the pump shaft); motor mounting flange drilled with 4 clearance holes + 4 threaded holes. Used normally for vertically mounted motor and pump units with pump submerged in the oil tank.



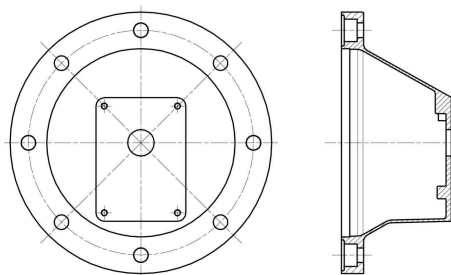
LMG * 4E**

With centre ring allowing removal of half-coupling (which as a rule is keyed permanently to the pump shaft), motor mounting flange drilled with 4 clearance holes + 4 threaded holes. Normally used for motor and pump units mounted horizontally on the tank lid or on the machine for maximum ease of maintenance. With this type of mounting, in effect, the hydraulic pump can be removed without removing the motor. The half-coupling mounted to the shaft passes through the spigot hole.



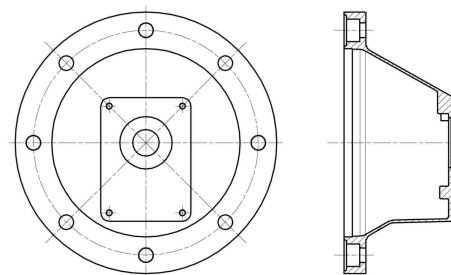
LMG * 8S**

Without centre ring allowing removal of half-coupling (which as a rule is keyed permanently to the pump shaft), motor mounting flange drilled with 8 clearance holes. Used normally for vertically mounted motor and pump units with pump submerged in the oil tank, allows greater flexibility for directional positioning of the hydraulic pump inside the tank, according to constructional requirements.



LMG * 8E**

With centre ring allowing removal of half-coupling (which as a rule is keyed permanently to the pump shaft), motor mounting flange drilled with 8 clearance holes. Normally used for motor and pump units mounted horizontally on the tank lid or on the machine, offers maximum ease of maintenance and enables directional positioning of the pump. With this type of mounting, in effect, the hydraulic pump can be removed without removing the motor. The half-coupling mounted to the shaft passes through the spigot hole.



COMPLETE KIT (BELL-HOUSING & COUPLINGS)

Motors identification code			Configuration example: AKA02 FS200 Z 4E			
Size		Size				
02	63 B3-B5	13	180 B3-B5	44	71 B14	
03	71 B3-B5	16	200 B3-B5	45	80 B14	
04	80 B3-B5	18	225 B3-B5	46	90 B14	
05	90 B3-B5	20	250 B3-B5	48	100/112 B14	
07	100/112 B3-B5	22	280 B3-B5			
11	132 B3-B5	26	315 B3-B5			
12	160 B3-B5	43	63 B14			

Pump flange identification code
FS200 See page 55

Product revision code
Z

Versions

4S	4 through holes + 4 threaded holes, motor interface without coupling removal ring
4E	4 through holes + 4 threaded holes, motor interface with coupling removal ring
8S	8 through holes, motor interface without coupling removal ring
8E	8 through holes, motor interface with coupling removal ring

BELL-HOUSING LMG

Bell-Housing series and size			Configuration example: LMG140 M FS200 4E DI			
LMG140	LMG250	LMG450				
LMG141	LMG251	LMG550				
LMG160	LMG300	LMG660				
LMG161	LMG350					
LMG200	LMG351					
LMG201	LMG400					

Product revision code
M

Pump flange identification code
FS200 See page 55

Versions

4S	4 through holes + 4 threaded holes, motor interface without coupling removal ring
4E	4 through holes + 4 threaded holes, motor interface with coupling removal ring
8S	8 through holes, motor interface without coupling removal ring
8E	8 through holes, motor interface with coupling removal ring

Options

DI	Drain hole + inspection hole
AN	Black anodized finish
SA	Motor interface with clearance holes
Pxx	Customer specification

COUPLING KIT

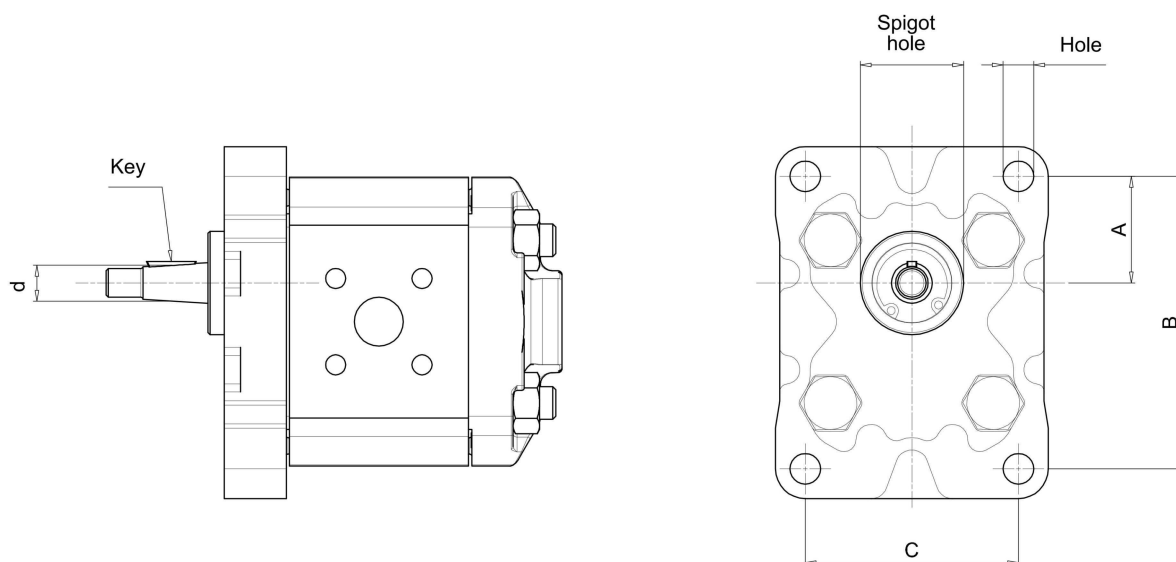
Motors identification code			Configuration example: AKG02 FS200 Z			
Size		Size				
02	63 B3-B5	13	180 B3-B5			
03	71 B3-B5	43	63 B14			
04	80 B3-B5	44	71 B14			
05	90 B3-B5	45	80 B14			
07	100/112 B3-B5	46	90 B14			
11	132 B3-B5	48	100/112 B14			
12	160 B3-B5					

Pumps flange identification code
FS200 See page 55

Product revision code
Z

Note:

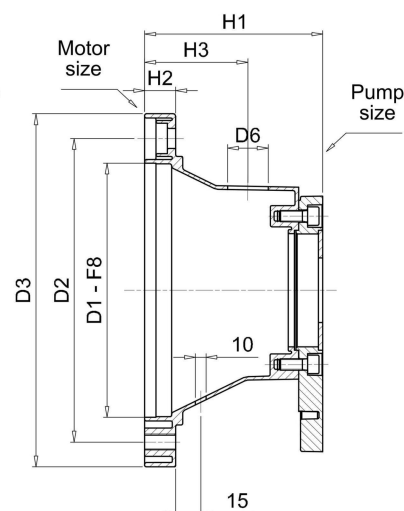
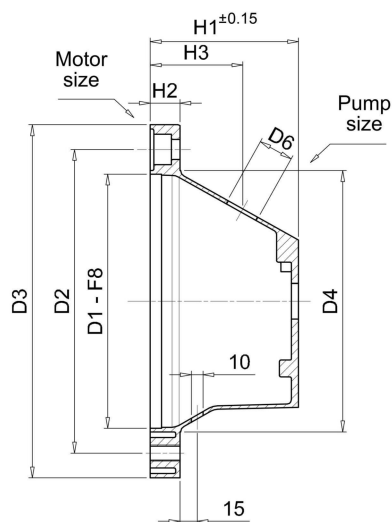
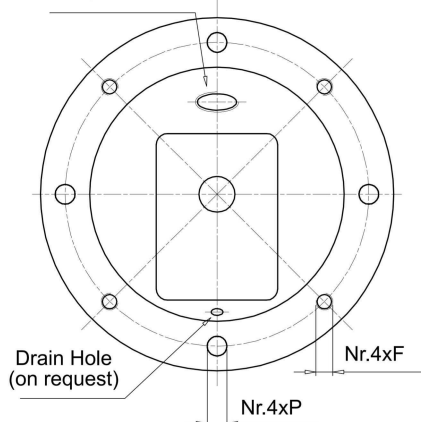
- Bell-Housings with DI options are supplied complete with threaded closure plug.
- Bell-Housing with 4E/8E version are supplied with center ring mounted.
- For product range codes see pages 58 ÷ 60



Designation of pump flange and shaft

Pump group	Spigot hole	A	Dimensions B	C	Hole	Pump flange code	d	Key	Shaft type	Pump half-coupling code
05	22.0	25.5	66.0	-	M6	FS05M	6.0	2.0	parallel	FS05M
	22.0	25.5	66.0	-	M6	FS05C	7.0	2.0	parallel	FS05C
1	25.4	26.2	72.0	52.0	M6	FS100	9.7	2.4	tapered 1:8	FS100
	30.0	24.5	73.0	56.0	M6	FS1M0	12.0	3.0	parallel	FS1C0
	30.0	24.5	73.0	56.0	M6	FS1M0	13.9	3.0	tapered 1:8	FS1M0
2	36.5	32.5	96.0	71.5	M8	FS200	17.2	3.2 - 4	tapered 1:8	FS200
	50.8	43.0	128.0	98.5	M8	FS25T	22.2	4.0	tapered 1:8	FS300
3	50.8	42.0	128.0	98.5	M10	FS300	22.2	4.0	tapered 1:8	FS300
	50.8	43.0	128.0	98.5	M10	FS3M0	22.2	4.0	tapered 1:8	FS300
	50.8	45.0	137.0	98.5	M10	FS3T0	22.2	4.0	tapered 1:8	FS300
	60.0	48.5	148.0	127.0	M12	FS35M	25.6	4.76 - 5.0	tapered 1:8	FS350
3.5	60.3	49.5	149.5	114.3	M10	FS350	25.6	4.76 - 5.0	tapered 1:8	FS350
	63.5	65.0	196.0	142.8	M12	FS4M0	33.3	6.35 - 7.0	tapered 1:8	FS400
4	63.5	64.3	188.0	143.0	M12	FS400	33.3	6.35 - 7.0	tapered 1:8	FS400
	32.0	10.3	40.0	40.0	M8	FSZBR	9.8	2.0	tapered 1:5	FSZBR
Bosch	80.0	34.5	100.0	72.0	M8	FSZFR	16.9	3.0	tapered 1:5	FSZFR
	105.0	48.0	145.0	102.0	M10	FSZGR	25.2	5.0	tapered 1:5	FSZGR

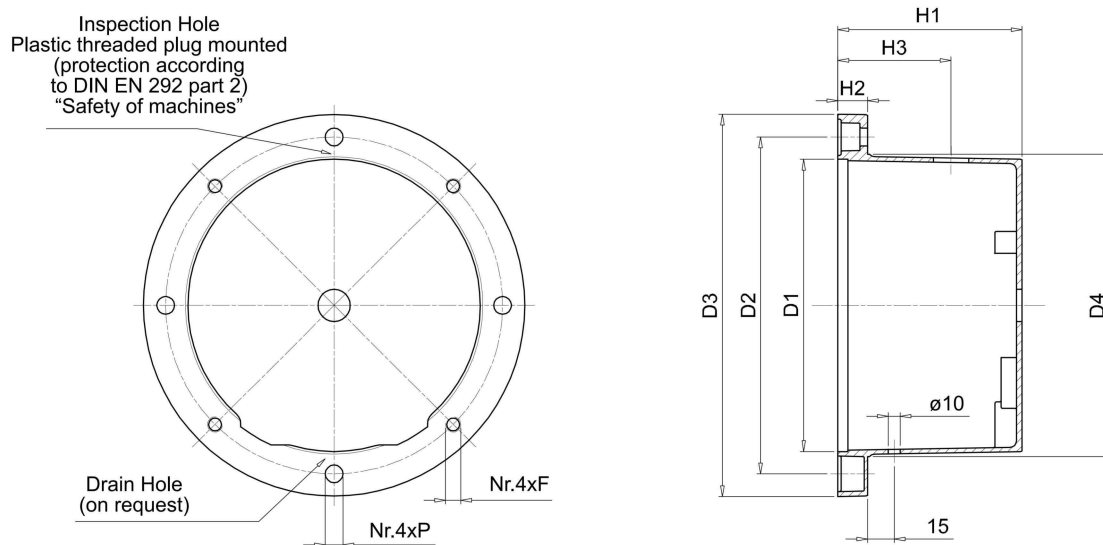
Inspection Hole
Plastic threaded plug mounted
(protection according to DIN EN 292 part 2)
"Safety of machines"



(*) Shape valid for LMG 251

Bell-housing

IEC - Electric motors		Bell-housing code	Dimensions [mm]								On request		Weight [kg]
Motor size	Shaft end [d x l]		D1	D2	D3	D4	H1	H2	F	P	H3	D6	
63 - B14	11x23	LMG090	60	75	90	63	60	7	-	6	40	1/2"	0.30
71 - B14	14x30	LMG105	70	85	105	74	67	8	-	7	40	1/2"	0.35
80 - B14	19x14	LMG120	80	100	120	84	87	9	-	7	45	1/2"	0.40
63 - B3/B5	11x23	LMG140	95	115	140	100	60	13	M8	9	40	1/2"	0.35
63 - B3/B5	11x23	LMG141	95	115	140	100	95	13	M8	9	50	1/2"	0.40
71 - B3/B5	14x30	LMG160	110	130	160	110	70	15	M8	9	40	1/2"	0.44
71 - B3/B5	14x30	LMG161	110	130	160	110	105	15	M8	9	50	1/2"	0.50
80 - B3/B5	19x14	LMG200	130	165	200	135	87	18	M10	11	45	3/4"	0.68
90 - B3/B5	24x50	LMG201	130	165	200	135	95	18	M10	11	50	3/4"	0.80
100-112 - B3/B5	28x60	LMG250	180	215	250	185	105	22	M12	14	70	3/4"	1.16
100-112 - B3/B5	28x60	LMG251 (*)	180	215	250	185	126	22	M12	14	70	3/4"	1.80



Bell-housing

IEC - Electric motors		Bell-housing code	Dimensions [mm]								On request		Weight [kg]
Motor size	Shaft end [d x l]		D1	D2	D3	D4	H1	H2	F	P	H3	D6	
132	38x80	LMG300	230	265	300	235	145	23	M12	14	80	1"	2.55
160	42x110	LMG351	250	300	350	255	179	31	M16	18	100	1"	4.90
180	48x110	LMG351	250	300	350	255	179	31	M16	18	100	1"	4.90