

IMPIEGHI

- Le pompe serie BMF sono pompe volumetriche ad ingranaggi monoblocco adatte per il trasferimento di liquidi viscosi e privi di sostanze solide in sospensione.
- Sono pompe autoadescanti e vengono fornite con i motori a 4 poli per liquidi con viscosità fino a 10° E e con motori a 6 poli per liquidi con viscosità superiori.
- Vengono impiegate per il trasferimento di olio combustibile, prodotti petroliferi, prodotti cosmetici, prodotti alimentari, vernici, oli lubrificanti, ecc.

COSTRUZIONE

- L'esecuzione standard delle pompe serie BMF è in ghisa con ingranaggi ed alberi in acciaio, tenuta meccanica in Viton.
- Le bocche di aspirazione e mandata sono dello stesso diametro e disposte sullo stesso asse.
- Nella versione standard possono funzionare con liquido alla temperatura max 140°C.
- Per temperature superiori o per applicazioni speciali si possono fornire flangiate per applicare a motori forma B3/B14 oppure B3/B5.
- Sulla mandata della pompa è possibile montare una valvola di sicurezza by-pass che protegga la pompa da pericolose sovrappressioni.
- La valvola by-pass è del tipo a ricircolo interno e si può tarare agendo sulla vite di regolazione.
- Il senso di rotazione è orario guardando dalla parte della pompa, la mandata è sulla sinistra (dalla parte della valvola by-pass), l'aspirazione è sulla destra.
- Le pompe BMF con tenuta appropriata possono essere reversibili.

ESECUZIONI

BF - BFZ - BFX = pompe ricavate dalla serie BMF senza motore.

BFC - BFCZ - BFCX = pompe con campana per accoppiamento a motore forma B5.

BMFZ = esecuzione in bronzo per liquidi alimentari.

BMFX = esecuzione inox AISI 316 per liquidi speciali.

BCF - BCFZ - BCFX = pompe monoblocco nelle varie metallurgie con motore monofase.

.../6 indica motore a 6 poli.

V1 - V2 indicano la valvola by-pass.

Per liquidi speciali è consigliabile consultare il nostro ufficio tecnico.

MOTORE

I motori sono del tipo ad induzione.

Isolamento classe F.

Protezione IP 54.

Albero speciale prolungato.

ESECUZIONI SPECIALI

- Tensioni speciali, tropicalizzazione.
- Protezione IP 55.
- Motori ADPE.

APPLICATIONS

- The BFM series are volumetric pumps with single-impelled gearing suitable for transferring of viscous and devoid of suspended solid substances liquids.
- These are selfpriming pumps and are supplied with 4-pole motors for liquids bearing a viscosity up to 10° E and with 6-pole motors for liquids with higher viscosity.
- They are employed for the transferring of fuel oil, petroliferous products, cosmetic items, foodstuffs, varnishes, lubricant oils, etc.

CONSTRUCTION

- The standard execution of the BMF series pumps is in cast iron with steel gearing and shafts; mechanical seal in Viton.
- The suction and delivery nozzles have the same diameter and are on the same axis (in-line).
- In the standard version they can operate with a maximum liquid temperature of 140°C.
- For higher temperatures or particular applications the pumps can be supplied flanged to allow connection with B3/B14 or B3/B5 motor forms.
- It is possible to fix on the pump delivery an over-pressure by-pass valve thus protecting the pump from dangerous overpressures.
- The by-pass valve is of the inner recycle kind and it can be calibrated by acting on the adjusting screw.
- The sense of rotation is right-hand looking from the pump side, the delivery is on the left (from the by-pass valve side), the suction is on the right.
- The BMF pumps with suitable sealing can be reversible.

EXECUTIONS

BF - BFZ - BFX = pumps derived from the serie BMF without motor.

BFC - BFCZ - BFCX = pumps BF with bell for coupling to motor form B5.

BMFZ = execution in bronze for alimentary liquids.

BMFX = execution in AISI 316 stainless steel for particular liquids.

BCF - BCFZ - BCFX = single-impelled pumps made in different metals with single-phase motor.

.../6 shows 6-pole motor.

V1 - V2 show the by-pass valve.

For particular liquids we advise you to contact our technical department.

MOTOR

The motors are of the induction type.

Class F insulation.

IP 54 protection.

Special extended shaft.

SPECIAL FEATURES

- Particular voltages, tropicalization.
- IP 55 protection.
- ADPE motors.

UTILISATIONS

- Les pompes série BMF sont des pompes volumétriques à engrenages monoblocs aptes au transfert de liquides visqueux et privés de substances solides en suspension.
- Il s'agit de pompes automorçantes qui sont fournies avec moteurs à 4 poles pour liquides avec une viscosité jusqu'à 10° E et avec moteurs à 6 poles pour liquides à viscosité majeure.
- Ces pompes sont utilisées pour le transfert d'huiles combustibles, produits pétroliers, produits cosmétiques, produits alimentaires, peintures, huiles lubrifiants, etc.

CONSTRUCTION

- L'exécution standard des pompes série BMF est en fonte avec engrenages et arbres en acier, garniture mécanique en Viton.
- Les orifices d'aspiration et refoulement ont le même diamètre et sont situés sur le même axe (exécution in-line).
- Dans la version standard les pompes peuvent marcher avec liquides à la température maximale de 140°C.
- Pour des températures supérieures ou pour des emplois particuliers on peut fournir les pompes bridées pour l'accouplement à moteurs en forme B3/B14 ou bien B3/B5.
- Sur le refoulement de la pompe on peut monter une soupape de surpression by-pass qui protège la pompe des surpressions dangereuses.
- La soupape by-pass est du type à recirculation et on peut la tarer en jouant sur la vis de régulation.
- Le sens de rotation est horaire en regardant du côté de la pompe, le refoulement est à gauche (du côté de la soupape by-pass), l'aspiration est à droite.
- Les pompes BMF, avec garniture apte, peuvent être réversibles.

EXECUTIONS

BF - BFZ - BFX = pompes dérivées de la série BMF sans moteur.

BFC - BFCZ - BFCX = pompes BF avec lanterne pour accouplement à moteur en forme B5.

BMFZ = exécution en bronze pour liquides alimentaires.

BMFX = exécution en acier inoxydable AISI 316 pour liquides particuliers.

BCF - BCFZ - BCFX = pompes monobloc en différents métaux avec monophasé.

.../6 indique moteur à 6 poles.

V1 - V2 indiquent la soupape by-pass.

Pour des liquides particuliers il vaut mieux consulter notre département technique.

MOTEUR

Les moteurs sont à induction.

Isolation Classe F.

Protection IP 54.

Arbre étendu special.

EXECUTIONS SPECIALES

- Voltages particuliers, tropicalisation.
- Protection IP 55.
- Moteurs ADPE.

PRESTAZIONI - PERFORMANCES

| MOTORE A 1400 GIRI/MIN - R.P.M. 1400 | | | | | | MOTORE A 900 GIRI/MIN. - R.P.M. 900 | | | | | |
|--------------------------------------|--------------------------------------|-------------------------------|------|--------------|--------------------------------------|-------------------------------------|------|--------------|--------------------------------------|-------------------------------|------|
| PREVALENZA - HEAD - HAUTER | | | | | | | | | | | |
| 5 ATE | | | | 10 ATE | | | | 10 ATE | | | |
| TIPO TYPE | PORTATA DELIVERY DEBIT lt/h | POTENZA POWER PUISSANCE | | TIPO TYPE | PORTATA DELIVERY DEBIT lt/h | POTENZA POWER PUISSANCE | | TIPO TYPE | PORTATA DELIVERY DEBIT lt/h | POTENZA POWER PUISSANCE | |
| | | KW | HP | | | KW | HP | | | KW | HP |
| BMF2 | 120 | 0.09 | 0.12 | BMF2M | 90 | 0.13 | 0.18 | - | - | - | - |
| BMF3 | 210 | 0.13 | 0.18 | BMF3M | 160 | 0.18 | 0.25 | - | - | - | - |
| BMF4 | 240 | 0.18 | 0.25 | BMF4 | 210 | 0.18 | 0.25 | - | - | - | - |
| BMF5 | 320 | 0.26 | 0.35 | BMF5 | 300 | 0.26 | 0.35 | BMF5/6 | 200 | 0.18 | 0.25 |
| BMF10 | 600 | 0.26 | 0.35 | BMF10M | 580 | 0.37 | 0.5 | BMF10/6 | 400 | 0.26 | 0.35 |
| BMF15 | 900 | 0.37 | 0.5 | BMF15M | 850 | 0.55 | 0.75 | BMF15/6 | 600 | 0.37 | 0.5 |
| BMF25 | 1500 | 0.55 | 0.75 | BMF25M | 1400 | 0.75 | 1 | BMF25/6 | 1000 | 0.55 | 0.75 |
| BMF35 | 2100 | 0.75 | 1 | BMF35M | 2000 | 1.1 | 1.5 | BMF35/6 | 1400 | 0.75 | 1 |
| BMF50 | 3000 | 1.1 | 1.5 | BMF50M | 2900 | 1.5 | 2 | BMF50/6 | 2000 | 1.1 | 1.5 |
| BMF60 | 3600 | 1.5 | 2 | BMF60M | 3400 | 1.8 | 2.5 | BMF60/6 | 2400 | 1.1 | 1.5 |

Prestazioni Teoriche con Olio 6° E
Tolleranza +2% -5%

- Per viscosità fino a 10° E pompa con motore a 1400 Giri/Min.
- Per viscosità da 10 a 50° E pompa con motore a 900 Giri/Min.
- Per viscosità superiori interpellare il nostro ufficio tecnico.

Theoric Performances with oil 6° E
Tolerances +2% -5%

- For viscosity up to 10° E pump with motor to 1400 R.P.M.
- For viscosity from 10 to 50° E pump with motor to 900 R.P.M.
- For higher viscosities please apply to our technical department.

Performances Théoriques avec huile 6° E
Tolerances +2% -5%

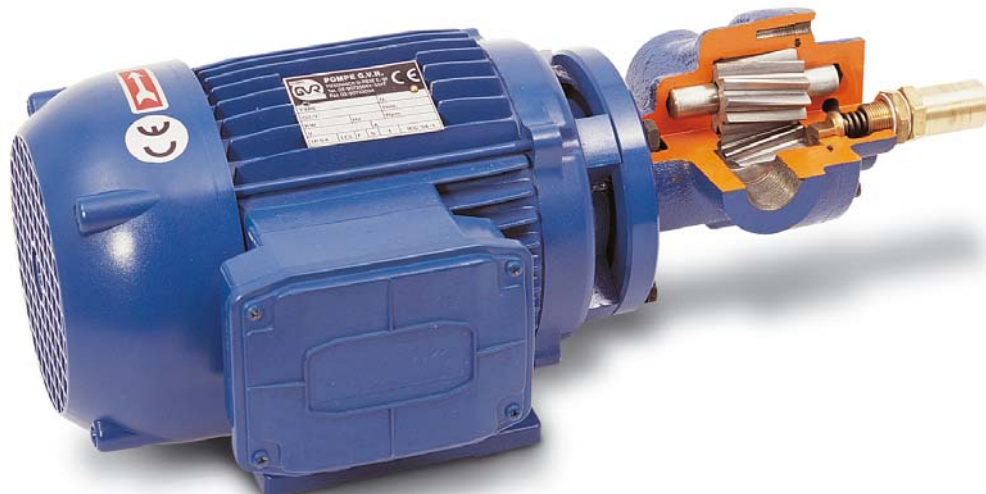
- Pour viscosité jusqu'à 6° E pompe avec moteur à 1400 R.P.M.
- Pour viscosités de 10 à 50° E pompe avec moteur à 900 R.P.M.
- Pour viscosités supérieures veuillez consulter notre département technique.

- REGIME DI ROTAZIONE CONSIGLIATO IN FUNZIONE ALLA VISCOSITÀ DEL LIQUIDO

- ADVISED ROTATION SPEED FOLLOWING THE VISCOSITY OF LIQUID

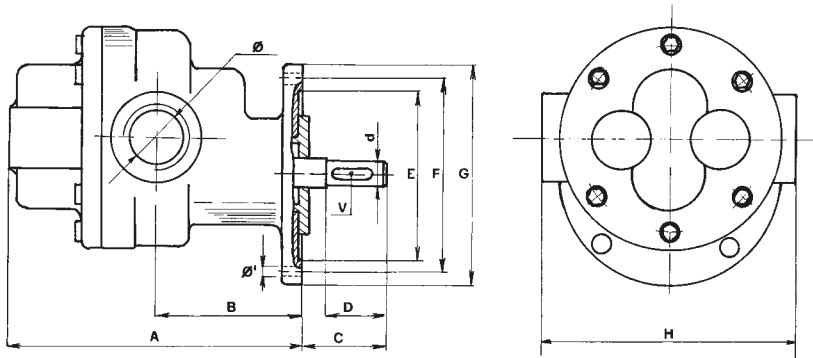
- VITESSE DE ROTATION CONSEILLÉE EN FONCTION DE LA VISCOSITÉ DU LIQUIDE

| | | | | | | | |
|------------------------------------|-------|-------|-------|-------|-------|--------|--------|
| GIRI/MIN. R.P.M. | 1'500 | 1'000 | 750 | 600 | 500 | 300 | 200 |
| VISCOSITÀ mm ² /s (cst) | 200 | 500 | 1'000 | 2'000 | 3'200 | 10'000 | 20'000 |

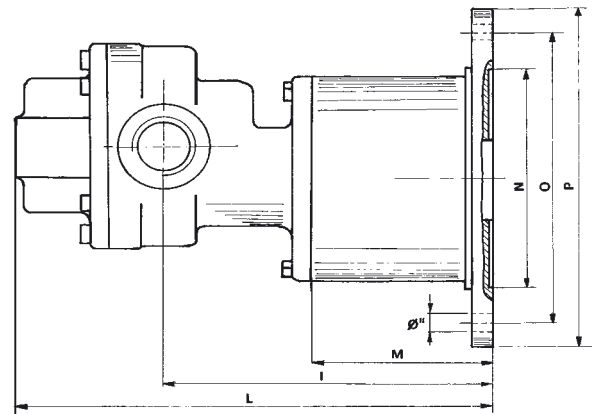


DIMENSIONI E PESI - DIMENSIONS AND WEIGHTS - DIMENSIONS ET POIDS

BF

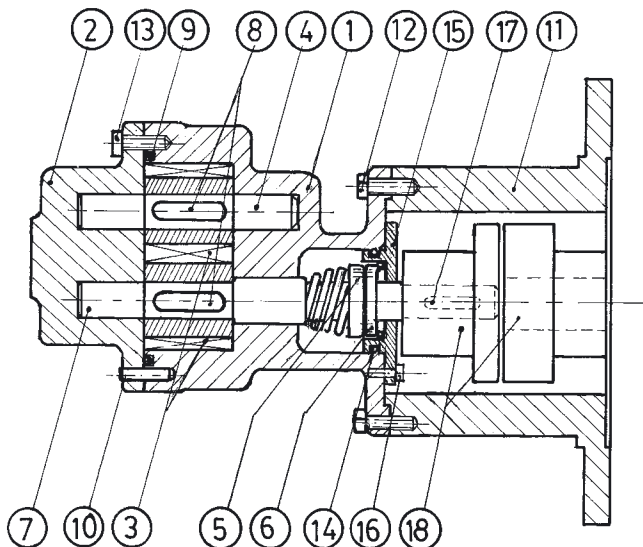


BFC



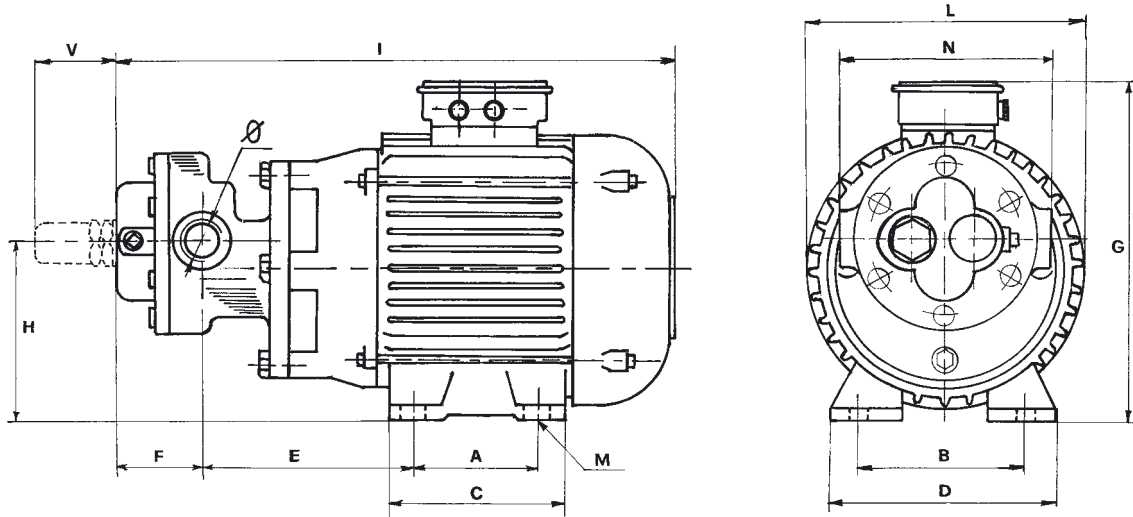
| TIPO TYPE | MOTORE GR | A | B | C | D | E | F | G | H | I | L | M | N | O | P | Ø | Ø1 | Ø2 | d | V | Kg |
|--------------|--------------|-----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|------|----|---|--------|
| BF-BFC 5 | 71 | 98 | 50 | 50 | 28 | 90 | 106 | 120 | 110 | 173 | 216 | 118 | 110 | 130 | 160 | 1/2" | 8.5 | 11.5 | 12 | 4 | 4.3 |
| BF-BFC 10 | | 115 | 60 | 50 | | | | | 115 | 183 | 233 | | | | | 5 | | | | | |
| BF-BFC 15 | 80 | 124 | 60 | 44 | 38 | 90 | 106 | 120 | 117 | 193 | 256 | 123 | 130 | 185 | 200 | 3/4" | 8.5 | 11.5 | 13 | 5 | 5.2 |
| BF-BFC 25 | | 133 | 70 | 47 | | | | | 134 | 199 | 276 | | | | | 5.5 | | | | | |
| BF-BFC 35 | 90 | 153 | 76 | 44 | 50 | 90 | 106 | 120 | 134 | 199 | 276 | 123 | 130 | 185 | 200 | 1" | 8.5 | 11.5 | 15 | 5 | 7 |
| BF-BFC 50 | | 153 | 76 | 44 | | | | | 134 | 199 | 276 | | | | | 7.2 | | | | | |
| BF-BFC 60 | | 162 | 78 | 58 | | | | | 162 | 78 | 58 | | | | | 285 | | | | | 1 1/4" |

DESCRIZIONE - DESCRIPTION - DESCRIPTION



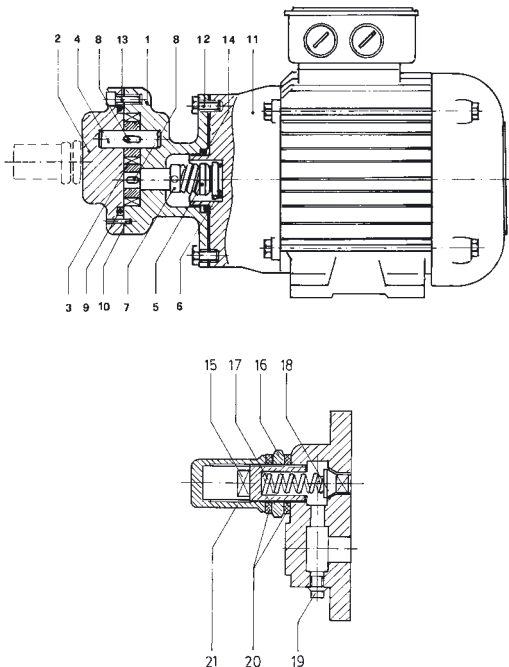
| POS | DESCRIZIONE | DESCRIPTION | DESCRIPTION |
|-----|-----------------------|-----------------------|--------------------------|
| 1 | Corpo pompa | Pump Body | Corps Pompe |
| 2 | Coperchio | Cover | Couvercle |
| 3 | Ingranaggi | Gears | Engrenages |
| 4 | Albero secondario | Driven shaft | Arbre |
| 5 | Tenuta meccanica | Mechanical seal | Garniture mécanique |
| 6 | Controfaccia tenuta | Seal matching surface | Contre-face garniture |
| 7 | Albero primario | Shaft | Arbre |
| 8 | Chiavetta | Key | Clavette |
| 9 | O-ring | O-ring | O-ring |
| 10 | Spine | Plug | Fiche |
| 11 | Campana accoppiamento | Coupling belt | Lanterne |
| 12 | Viti TE | Screw | Vis TE |
| 13 | Viti TCE | Socket head screw | Vis TCE |
| 14 | O-ring | O-ring | O-ring |
| 15 | Coperchio tenuta | Mechanical seal cover | Couvercle pour garniture |
| 16 | Viti TCE | Socket head screw | Vis TCE |
| 17 | Chiavetta giunto | Joint key | Clavette joint |
| 18 | Giunto elastico | Elastic joint | Joint elastique |

DIMENSIONI E PESI - DIMENSIONS AND WEIGHTS - DIMENSIONS ET POIDS



| TIPO TYPE | POTENZA HP | | ∅ | A | B | C | D | E | F | G | H | I | L | M | N | V | Kg | |
|--------------|------------|--------|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|
| | 4 POLI | 6 POLI | | | | | | | | | | | | | | | | |
| BMF2 | 0.12 | - | 3/8" | 71 | 90 | 86 | 117 | 66 | 50 | 154 | 68 | 257 | 108 | 6 | 85 | 40 | 6.2 | |
| BMF3 | 0.18 | - | | 80 | 100 | 100 | 120 | 70 | 53 | 164 | 74 | 270 | 121 | 7 | | | 6.6 | |
| BMF4 | 0.25 | - | | 80 | 100 | 100 | 120 | 70 | 57 | | 276 | 7 | | 6.9 | | | | |
| BMF5 | 0.35 | - | 1/2" | 80 | 100 | 100 | 120 | 90 | 53 | 164 | 78 | 296 | 121 | 7 | 110 | 48 | 7.7 | |
| BMF5/6 | - | 0.25 | | 90 | 112 | 109 | 135 | | | 187 | 86 | 314 | 143 | | | | 10.2 | |
| BMF10 | 0.35 | - | 3/4" | 80 | 100 | 100 | 120 | 99 | 59 | 164 | 78 | 314 | 121 | 7 | 115 | 48 | 8.5 | |
| BMF10M | 0.5 | - | | 90 | 112 | 109 | 135 | | | 187 | 86 | 334 | 143 | | | | 9 | 11.2 |
| BMF10/6 | - | 0.35 | | 90 | 112 | 109 | 135 | | | 110 | 69 | 187 | 86 | | | | 343 | 143 |
| BMF15 | 0.5 | - | 3/4" | 90 | 112 | 109 | 135 | 110 | 69 | 187 | 86 | 343 | 143 | 9 | 115 | 48 | 11.2 | |
| BMF15M | 0.75 | - | | 100 | 125 | 125 | 154 | | | 210 | 95 | 365 | 162 | | | | 14.2 | |
| BMF15/6 | - | 0.5 | 90 | 112 | 109 | 135 | 120 | 71 | 187 | 86 | 365 | 132 | 9 | 117 | 48 | 12.4 | | |
| BMF25 | 0.75 | - | 3/4" | 90 | 112 | 109 | 135 | 120 | 71 | 210 | 95 | 376 | 132 | 9 | 117 | 48 | 14.4 | |
| BMF25M | 1 | - | | 100 | 125 | 125 | 154 | | | 210 | 95 | 376 | 132 | | | | 15.4 | |
| BMF25/6 | - | 0.75 | | 100 | 125 | 125 | 154 | | | 132 | 75 | 210 | 104 | | | | 395 | 162 |
| BMF35 | 1 | - | 1" | 100 | 125 | 125 | 154 | 132 | 75 | 210 | 104 | 395 | 162 | 9 | 134 | 48 | 17.5 | |
| BMF35M | 1.5 | - | | 125 | 140 | 150 | 170 | | | 230 | 112 | 441 | 182 | | | | 20.1 | |
| BMF35/6 | - | 1 | 100 | 125 | 125 | 154 | 142 | 85 | 210 | 104 | 441 | 162 | 9 | 134 | 48 | 17.5 | | |
| BMF50 | 1.5 | - | 1" | 125 | 140 | 150 | 170 | 142 | 85 | 230 | 112 | 452 | 182 | 9 | 134 | 48 | 21.5 | |
| BMF50M | 2 | - | | 125 | 140 | 150 | 170 | | | 230 | 112 | 452 | 182 | | | | 21.7 | |
| BMF50/6 | - | 1.5 | | 125 | 140 | 150 | 170 | | | 142 | 85 | 230 | 112 | | | | 452 | 182 |
| BMF60 | 2 | - | 1 1/4" | 125 | 140 | 150 | 170 | 142 | 85 | 230 | 112 | 452 | 182 | 9 | 122 | 48 | 23.5 | |
| BMF60M | 2.5 | - | | 125 | 140 | 150 | 170 | | | 230 | 112 | 452 | 182 | | | | 24 | |
| BMF60/6 | - | 1.5 | 125 | 140 | 150 | 170 | 142 | 85 | 230 | 112 | 452 | 182 | 9 | 122 | 48 | 24 | | |

DESCRIZIONE - DESCRIPTION - DESCRIPTION



| POS. | DESCRIZIONE | DESCRIPTION | DESCRIPTION |
|------|---------------------|-----------------------|-----------------------|
| 1 | Corpo pompa | Pump Body | Corps Pompe |
| 2 | Coperchio | Cover | Couvercle |
| 3 | Ingranaggi | Gears | Engrenages |
| 4 | Albero secondario | Driven shaft | Arbre |
| 5 | Tenuta meccanica | Mechanical seal | Garniture mécanique |
| 6 | Controfaccia tenuta | Seal matching surface | Contre-face garniture |
| 7 | Ghiera | Ring nut | Embout |
| 8 | Chiavetta | Key | Clavette |
| 9 | O-ring | O-ring | O-ring |
| 10 | Spina | Plug | Fiche |
| 11 | Motore elettrico | Electric motor | Moteur |
| 12 | Viti TE | Screw | Vis TE |
| 13 | Viti TC | Socket head screw | Vis TC |
| 14 | O-ring | O-ring | O-ring |
| 15 | Bussola | Bush | Boussole |
| 16 | Controdado | Lock nut | Contre Écrou |
| 17 | Molla | Spring | Ressort |
| 18 | Fungo | Plug | Bouchon |
| 19 | Tappo | Plug | Bouchon |
| 20 | Rondella | Grommet | Rondelle |
| 21 | Cappello By-pass | By-pass cover | Couvercle by-pass |