

The sealless FLUX F 424



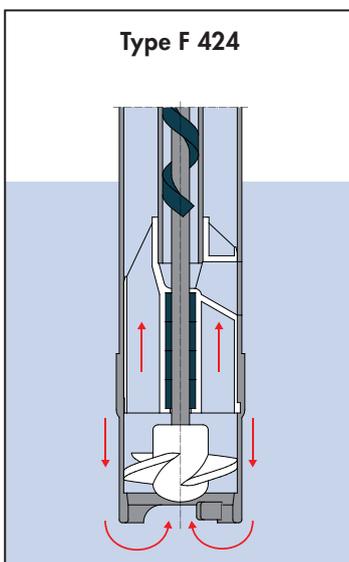
The liquids to be pumped are abrasive, but they do not leave any deposits. Dry running of the pump must not cause any problems. You are looking for a lightweight, general purpose pump in stainless steel, polypropylene or polyvinylendene fluoride.

The inner tube supports the pump shaft, which is lubricated by the liquid. The level of the liquid in the inner tube always corresponds to that in the drum or container.

Special advantages:

- Safe dry running of the pump
- No wearing of seals
- The liquid being pumped is not contaminated by the shaft lubricant
- Inner tube and helix shaped support bearings completely self-draining

Here a FLUX pump in sealless version is your pump.



Flexible coupling between motor and pump

O-ring to seal between inner and outer tube (not in the liquid section)

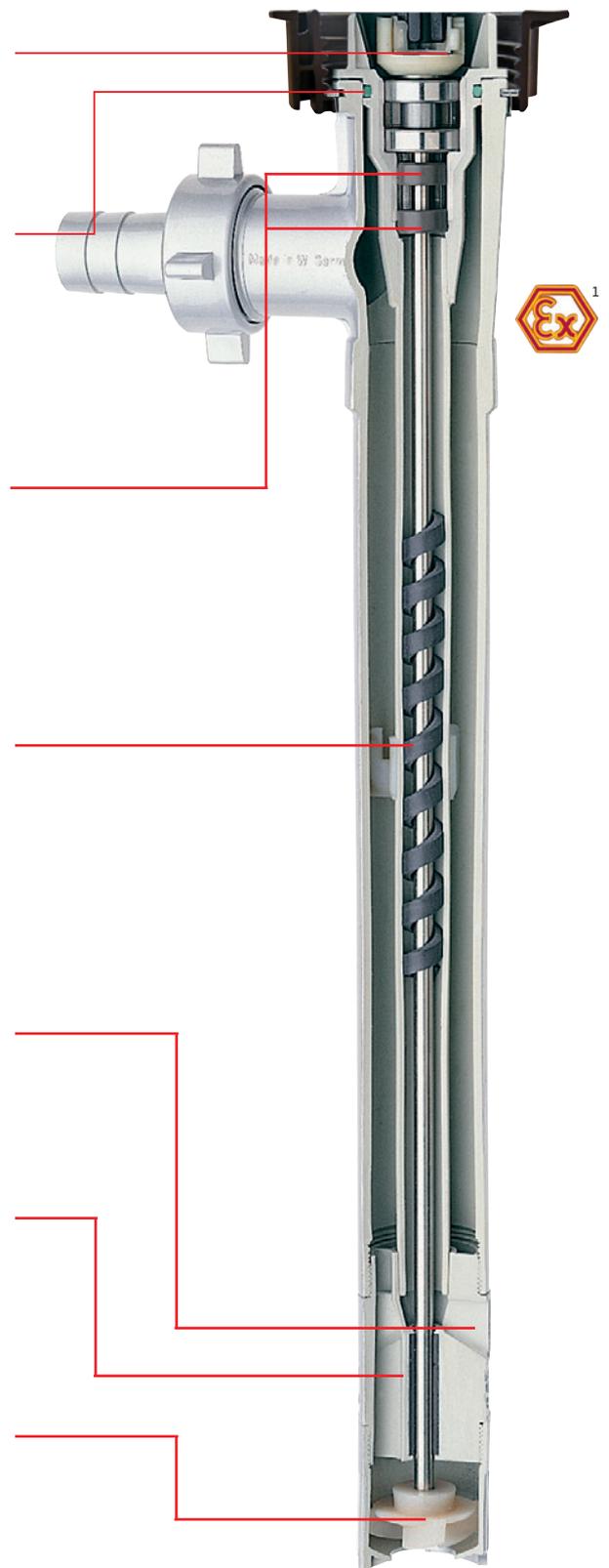
Radial shaft seals to prevent liquid and/or vapours entering the coupling area

Non-metallic helix shaped shaft support bearing

Pressure relief ports

Bottom bearing assembly which centers the shaft within the inner tube

Impeller in ETFE



FLUX drum pumps in polyvinylidene fluoride

FLUX drum pumps in polyvinylidene fluoride are used for both chemically aggressive and hardly flammable liquids such as acids and alkalis, together with most thin and neutral liquids.

With the help of the performance charts you can compare the delivery rates achieved by each pump model powered by the various FLUX motors. Detailed motor data are shown on pages 21 to 29.

When using the pump with a discharge hose (of approx. 6,5 ft) and a quick action tap, the delivery rate will be approx. 18 GPM. Depending on the motor type a 55 GAL drum can be emptied within 3 – 4 minutes. The delivery rates shown in the performance charts are obtained at the outlet connection of the pump.

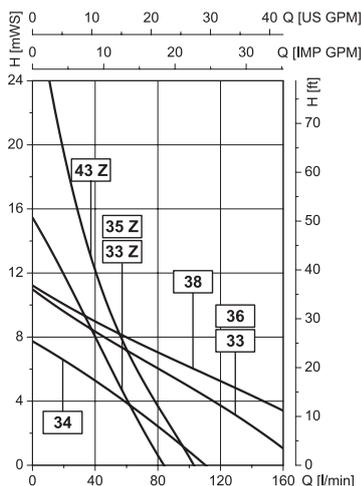


↙ This pump version will achieve a higher delivery rate!

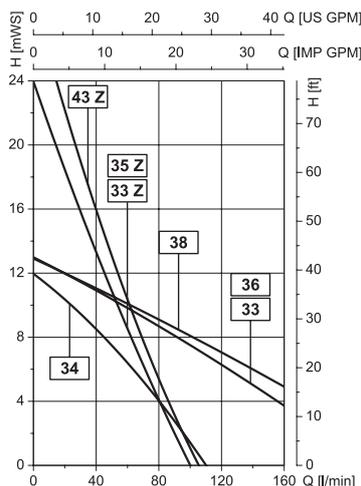
↗ This pump version will achieve a higher delivery head!

Max. viscosity per pump and motor, please see pages 28 and 29.

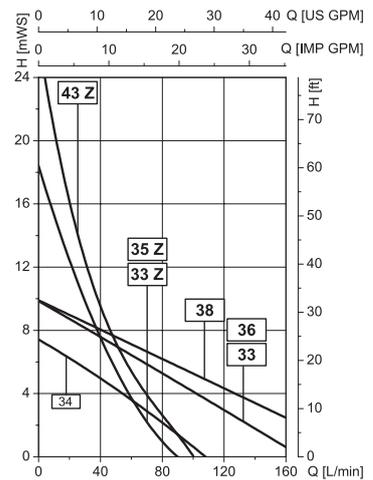
motor FBM 4000 Ex



motor F 416 Ex, F 416-1 Ex or F 416-2 Ex



motor FEM 4070

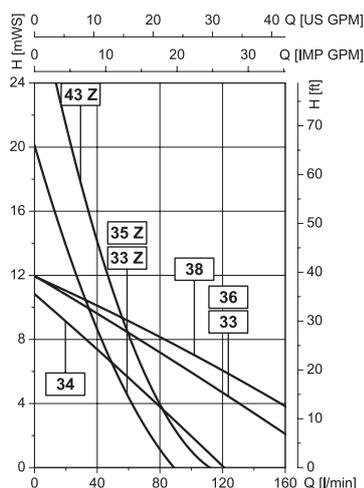


Drum Pump (tube set) in Polyvinylidene fluoride, thread on outlet, G 1¼ A (BSP 1¼" male), motors on page 21

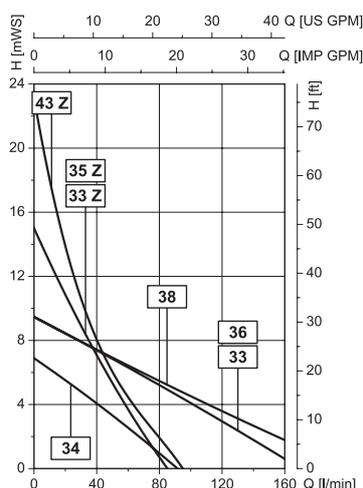
| Type/Curve | F 424 PVDF-41/36 | F 424 PVDF-41/35 Z | F 424 PVDF-50/38 | |
|--|---|------------------------------|------------------------------|------------------------------|
| Version | ↗ | ↗ | ↗ | |
| Seal type | sealless | | | |
| Material | shaft in Hastelloy C, impeller in ETFE, o-ring in FKM | | | |
| Max. temperature | 176 °F | | | |
| Outer-Ø | 1 19/32" | 1 19/32" | 2" | |
| Part No. / Weight | | | | |
| Immersion length 27" | 424 60 007 / 2,42 lbs | 424 60 107 / 2,42 lbs | 424 60 207 / 3,08 lbs | |
| Immersion length 39" | 424 60 010 / 3,08 lbs | 424 60 110 / 3,08 lbs | 424 60 210 / 4,18 lbs | |
| Immersion length 47" | 424 60 012 / 3,53 lbs | 424 60 112 / 3,53 lbs | 424 60 212 / 4,85 lbs | |
| Type/Curve | F 430 PVDF-40/33 | F 430 PVDF-40/33 Z | F 430 PVDF-50/43 Z | F 430 PVDF-50/38 |
| Version | ↗ | ↗ | ↗ | ↗ |
| Seal type | mechanical seal in ceramic oxide, PTFE/carbon, o-rings in FKM | | | |
| Material | shaft in Hastelloy C, seal in FKM, impeller in ETFE | | | |
| Max. temperature | 176 °F | | | |
| Outer-Ø | 1 1/16" | 1 1/16" | 2" | 2" |
| Part No. / Weight | | | | |
| Immersion length 27" | 430 60 107 / 3,08 lbs | 430 60 407 / 3,08 lbs | 430 60 207 / 3,08 lbs | 430 60 307 / 3,75 lbs |
| Immersion length 39" | 430 60 110 / 3,75 lbs | 430 60 410 / 3,75 lbs | 430 60 210 / 3,75 lbs | 430 60 310 / 4,63 lbs |
| Immersion length 47" | 430 60 112 / 4,41 lbs | 430 60 412 / 4,41 lbs | 430 60 212 / 4,41 lbs | 430 60 312 / 5,51 lbs |
| Accessories Hose connection with nut G 1¼ DN 19 Part No. 959 04 101 DN 25 Part No. 959 04 102 | | | | |

Pump models in immersion lengths of 8 – 118" (in steps of 4") on request.

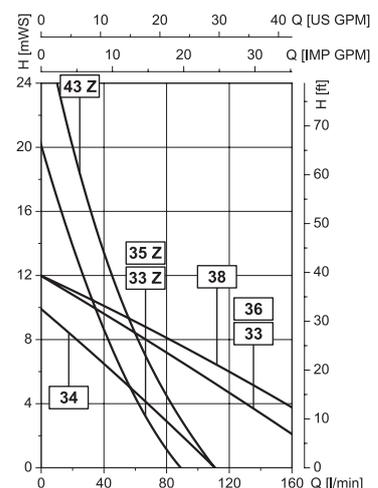
motor F 457 or F 457 EL



motor F 458, F 458 EL, F 460 Ex or F 460 Ex EL



motor F 458-1 or F 460-1 Ex

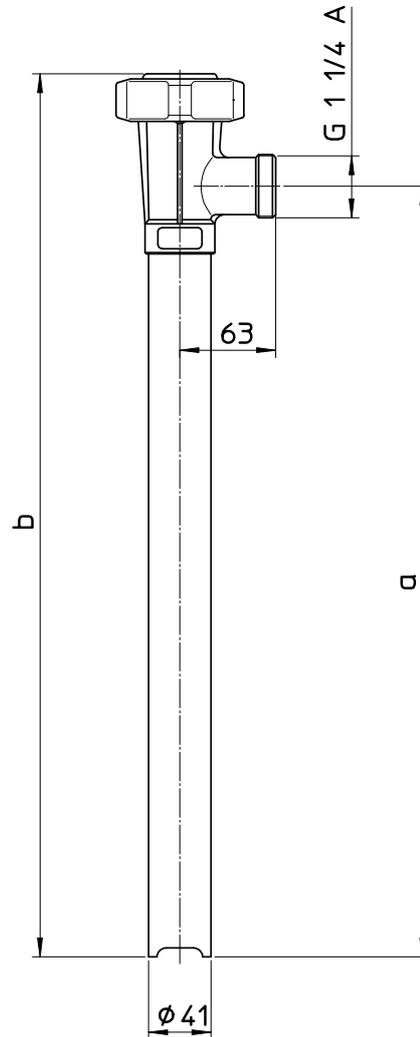


Values ± 10% with water (68 °F) and a voltage of 230 Volt. Curves with a voltage of 120 Volt / 60 Hz are similar.



Maßblatt
Dimensional drawing
Plan d'encombrement

F 424 PP/PVDF-41/36
F 424 PP/PVDF-41/35Z



| | | | | |
|------|------|------|------|------|
| 1500 | 1515 | 1590 | 1507 | 1582 |
| 1400 | 1415 | 1490 | 1407 | 1482 |
| 1300 | 1315 | 1390 | 1307 | 1382 |
| 1200 | 1215 | 1290 | 1207 | 1282 |
| 1100 | 1115 | 1190 | 1107 | 1182 |
| 1000 | 1015 | 1090 | 1007 | 1082 |
| 900 | 915 | 990 | 907 | 982 |
| 800 | 815 | 890 | 807 | 882 |
| 700 | 715 | 790 | 707 | 782 |
| 600 | 615 | 690 | 607 | 682 |
| 500 | 515 | 590 | 507 | 582 |
| 400 | 415 | 490 | 407 | 482 |
| 300 | 315 | 390 | 307 | 382 |
| 200 | 215 | 290 | 207 | 282 |

Bemerkung:

Bei Montage von Motor und Pumpe reduziert sich die Gesamtlänge um 16 mm!

Note:

With motor and pump assembled, the total length reduces by 16 mm!

Nota:

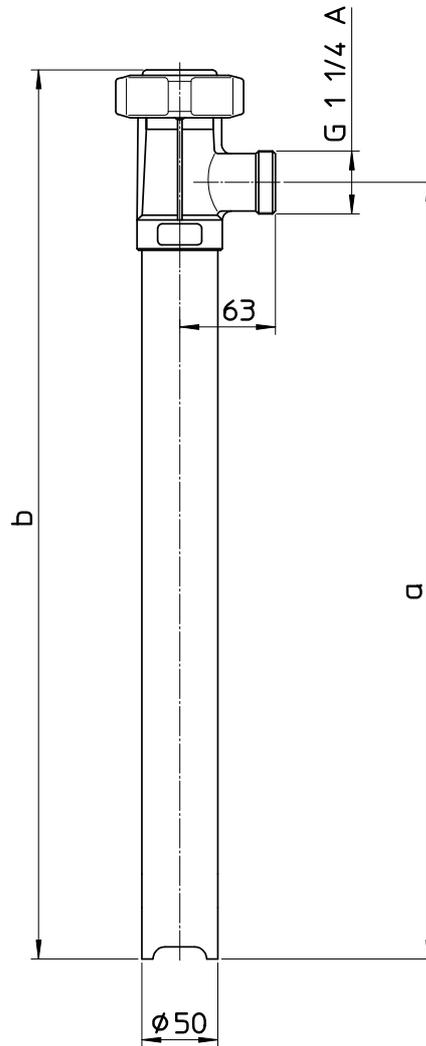
La hauteur totale se réduit de 16 mm lorsque le moteur est monté sur la pompe!

| | | | | |
|---|--------|---|---------|---|
| Eintauchtiefe Immersion length Longueur | a | b | a | b |
| | -41/36 | | -41/35Z | |



Maßblatt
 Dimensional drawing
 Plan d'encombrement

F 424 PP-50/43Z
 F 424 PP/PVDF-50/38



Bemerkung:

Bei Montage von Motor und Pumpe reduziert sich die Gesamtlänge um 16 mm!

Note:

With motor and pump assembled, the total length reduces by 16 mm!

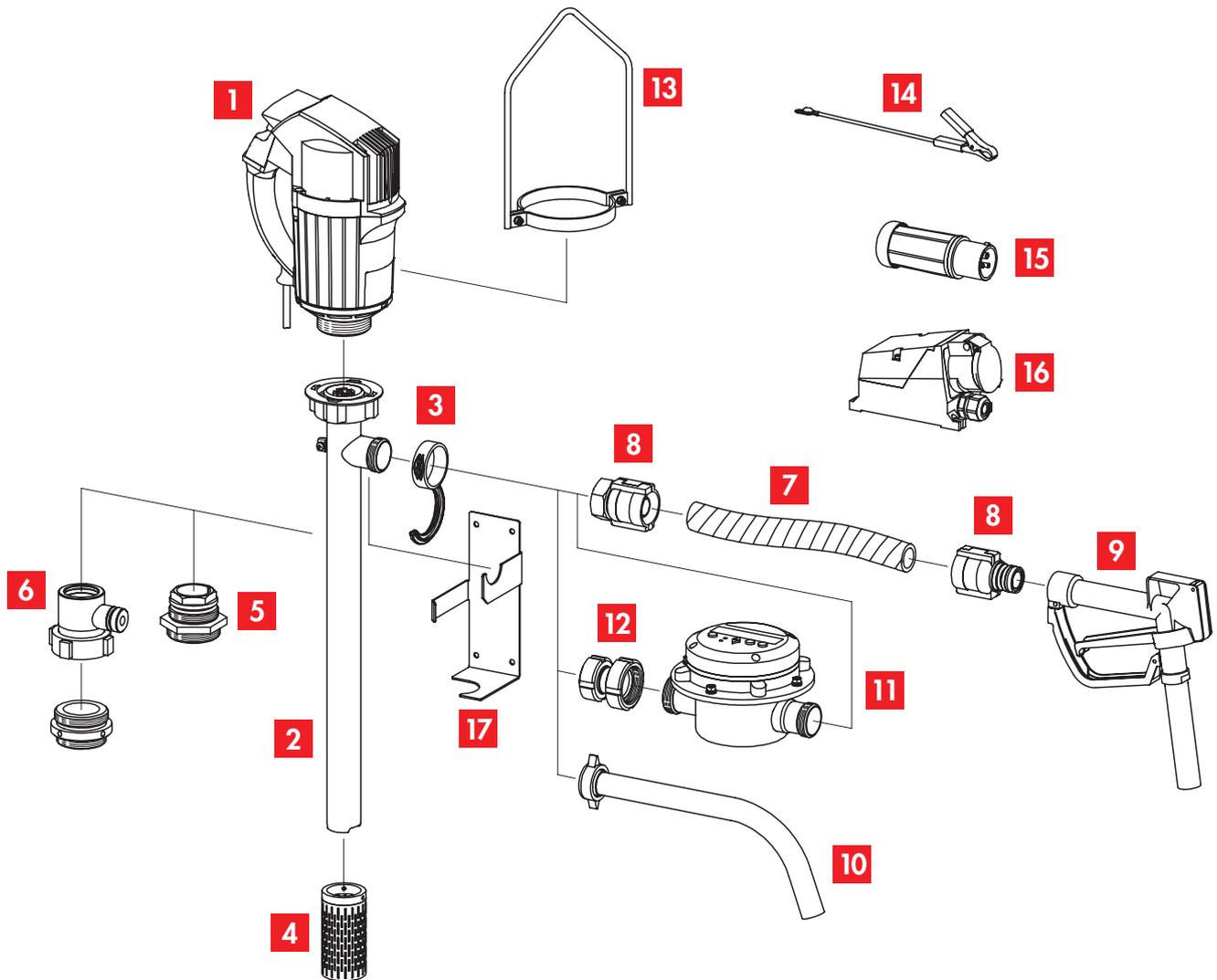
Nota:

La hauteur totale se réduit de 16 mm lorsque le moteur est monté sur la pompe!

| | | |
|---|------|------|
| 1500 | 1515 | 1590 |
| 1200 | 1215 | 1290 |
| 1000 | 1015 | 1090 |
| 700 | 715 | 790 |
| 500 | 515 | 590 |
| Eintauchtiefe Immersion length Longueur | a | b |

general view FLUX drum and container pump with accessories for highly flammable liquids (explosion-proof version)

It is not merely the pump that makes the FLUX solution a perfect equipment. On this page you will find a general view on the explosion-proof FLUX drum pump together with all accessories for transferring highly flammable liquids. With all items in bold printing you will have a ready to use pump assembly, which may be completed by other accessories shown on this page.



- 1** drive motor

- 2** drum pump (pump tube set)

- 3** FLUX-clip

- 4** suction strainer

- 5** compression gland

- 6** fume gland type FES

- 7** flexible hose*

- 8** swaged hose fittings*

- 9** quick action tap

- 10** discharge spout

- 11** liquid meter

- 12** connecting piece FMC 100

- 13** carrying handle

- 14** earth (ground) wire

- 15** explosion-proof plug

- 16** explosion-proof socket

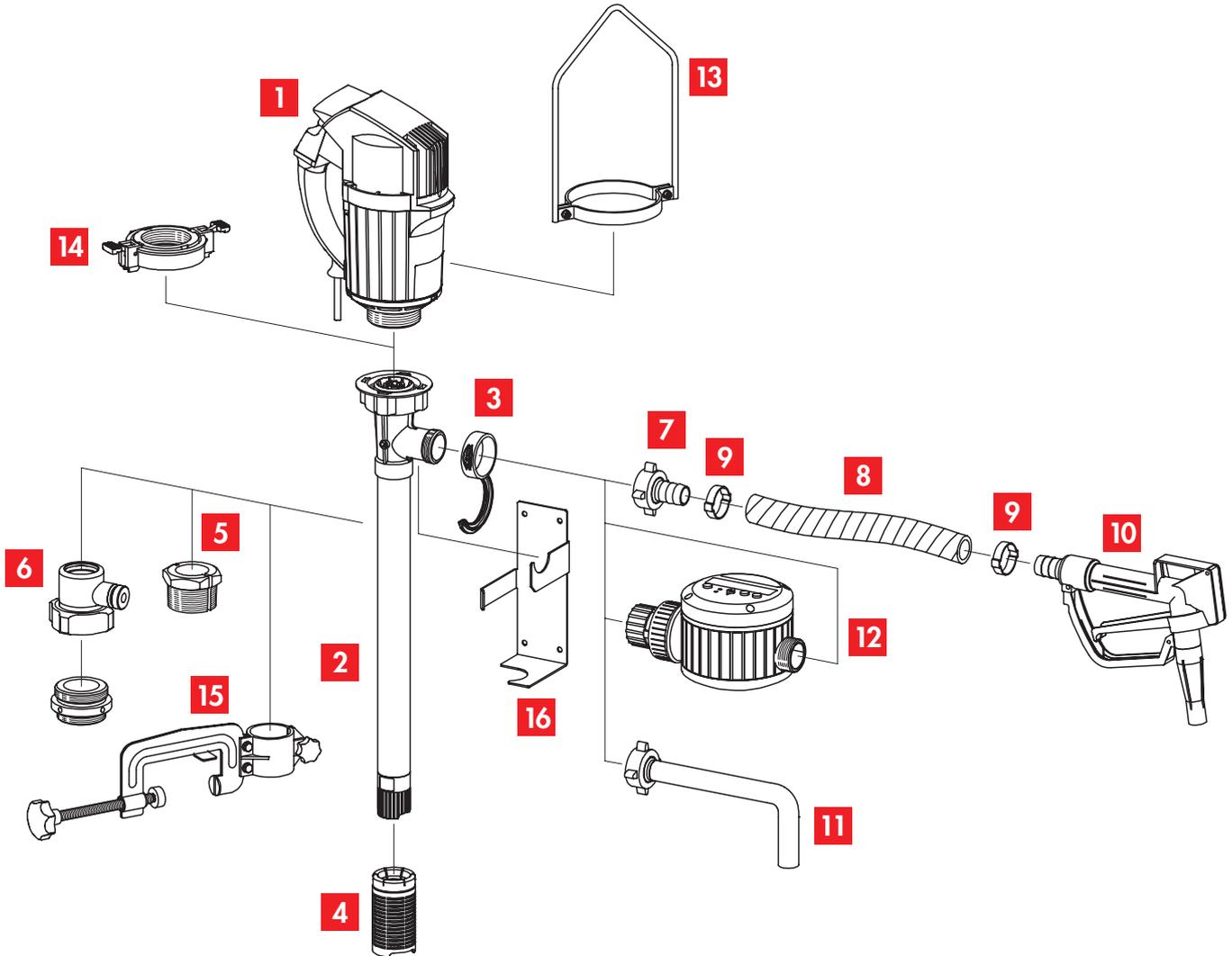
- 17** wall bracket

* On request also available completely mounted and tested for electrical conductivity.

general view FLUX drum and container pump with accessories for non-flammable liquids



It is not merely the pump that makes the FLUX solution a perfect equipment. On this page you will find a general view on the FLUX drum pump together with all accessories for transferring non-flammable liquids. With all items in bold printing you will have a ready to use pump assembly, which may be completed by other accessories shown on this page.



- | | |
|------------------------------------|--|
| 1 drive motor | 9 hose clip |
| 2 drum pump (pump tube set) | 10 quick action tap |
| 3 FLUX-clip | 11 discharge spout |
| 4 suction strainer | 12 liquid meter |
| 5 compression gland | 13 carrying handle |
| 6 fume gland type FES | 14 quick action coupling type SSK 400 |
| 7 hose connection | 15 attachment clamp |
| 8 flexible hose* | 16 wall bracket |