

# LIQUID PUMPS ACCESSORIES OVERVIEW

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# Pulsation damper, FPD 06

KNF diaphragm pulsation dampers can effectively reduce the pulsation after the pump by up to 97%. Please note that the type of pulsation damper selected and the correct installation are essential in ensuring an optimal performance.

| FPD 06 ALLOWED PRESSURE 2 BAR |         |                            |               |
|-------------------------------|---------|----------------------------|---------------|
| Type                          | Orifice | for pump type              | ID No.        |
| FPD 06 KPZ                    | D 0.7   | NFB 5 KP                   | 068887/153123 |
| FPD 06 KPZ                    | D 1.0   | NF 5 RP                    | 068887/153142 |
| FPD 06 KPZ                    | D 1.2   | NF 10 / 25 KP / NFB 25 KP  | 068887/153127 |
| FPD 06 KPZ                    | D 1.4   | NF 30 / NF 60 KP / FP 70   | 068887/153131 |
| FPD 06 KPZ                    | D 1.8   | NF 100 KP                  | 068887/153135 |
| FPD 06 KP51Z                  | D 1.4   | NF 30 / NF 60 KP51 / FP 70 | 156515/156493 |
| FPD 06 KTZ                    | D 0.7   | NFB 5 KT                   | 068888/153123 |
| FPD 06 KTZ                    | D 1.0   | NF 5 RT                    | 068888/153142 |
| FPD 06 KTZ                    | D 1.2   | NF 10 / 25 KT / NFB 25 KT  | 068888/153127 |
| FPD 06 KTZ                    | D 1.4   | NF 30 / NF 60 KT / FP 70   | 068888/153131 |
| FPD 06 KTZ                    | D 1.8   | NF 100 KT                  | 068888/153135 |
| FPD 06TTZ                     | D 0.7   | NFB 5 TT                   | 068889/153124 |
| FPD 06TTZ                     | D 1.0   | NF 5 RT                    | 068889/153143 |
| FPD 06TTZ                     | D 1.2   | NF 10 / 25 TT / NFB 25 TT  | 068889/153128 |
| FPD 06TTZ                     | D 1.4   | NF 30 / NF 60 TT / FP 70   | 068889/153132 |
| FPD 06TTZ                     | D 1.8   | NF 100 TT                  | 068889/153136 |



FPD 06 KPZ



FPD 06 KP .51Z

| FPD 1.06 ALLOWED PRESSURE 6 BAR |         |                        |               |
|---------------------------------|---------|------------------------|---------------|
| Type                            | Orifice | for pump type          | ID No.        |
| FPD 1.06 KPZ                    | D 0.7   | NF 1.5 KP              | 068890/153123 |
| FPD 1.06 KPZ                    | D 1.0   | NF 1.11 KP             | 068890/153142 |
| FPD 1.06 KPZ                    | D 1.2   | NF 1.25 RP             | 068890/153127 |
| FPD 1.06 KPZ                    | D 1.4   | NF 1.60 KP / FP 70     | 068890/153131 |
| FPD 1.06 KTZ                    | D 0.7   | NF 1.5 KT / NF 1.30 KT | 068891/153123 |
| FPD 1.06 KTZ                    | D 1.0   | NF 1.11 KT             | 068891/153142 |
| FPD 1.06 KTZ                    | D 1.2   | NF 1.25 RT             | 068891/153127 |
| FPD 1.06 KTZ                    | D 1.4   | NF 1.60 KT             | 068891/153131 |
| FPD 1.06TTZ                     | D 0.7   | NF 1.5TT / NF 1.30 TT  | 068892/153124 |
| FPD 1.06TTZ                     | D 1.0   | NF 1.11 TT             | 068892/153143 |
| FPD 1.06TTZ                     | D 1.2   | NF 1.25 RT             | 068892/153128 |
| FPD 1.06TTZ                     | D 1.4   | NF 1.60 TT / FP 70     | 068892/153132 |
| FPD 1.06KPZ                     | L 8.9   | FP 150 KP              | 068890/324038 |
| FPD 1.06KTZ                     | L 8.9   | FP 150 KT              | 068891/324038 |

# Pulsation damper, FPD 10

KNF diaphragm pulsation dampers can effectively reduce the pulsation after the pump by up to 97%. Please note that the type of pulsation damper selected and the correct installation are essential in ensuring an optimal performance.

| FPD 10 ALLOWED PRESSURE 2 BAR |         |               |               |
|-------------------------------|---------|---------------|---------------|
| Type                          | Orifice | for pump type | ID No.        |
| FPD 10 KPZ                    | D 2.8   | NF 300 KP     | 068893/152351 |
| FPD 10 KPZ                    | D 3.4   | NF 600 KP     | 068893/069017 |
| FPD 10 KPZ                    | D 3.8   | NFB 100 KP    | 068893/167867 |
| FPD 10 KTZ                    | D 2.8   | NF 300 KT     | 068894/152351 |
| FPD 10 KTZ                    | D 3.4   | NF 600 KT     | 068894/069017 |
| FPD 10 KTZ                    | D 3.8   | NFB 100 KT    | 068894/167867 |
| FPD 10 TTZ                    | D 2.8   | NF 300 TT     | 068895/152352 |
| FPD 10 TTZ                    | D 3.4   | NF 600 TT     | 068895/069018 |
| FPD 10 TTZ                    | D 3.8   | NFB 100 TT    | 068895/170596 |
| FPD 10 KPZ                    | L 8.2   | FP 400 KP     | 068893/177814 |
| FPD 10 KTZ                    | L 8.2   | FP 400 KT     | 068894/177814 |



FPD 10 KPZ

| FPD 1.10 ALLOWED PRESSURE 6 BAR |         |               |               |
|---------------------------------|---------|---------------|---------------|
| Type                            | Orifice | for pump type | ID No.        |
| FPD 1.10 KPZ                    | D 1.6   | NF 1.100 KP   | 068896/152341 |
| FPD 1.10 KPZ                    | D 2.0   | NF 1.300 KP   | 068896/152347 |
| FPD 1.10 KPZ                    | D 2.8   | NF 1.600 KP   | 068896/152351 |
| FPD 1.10 KTZ                    | D 1.6   | NF 1.100 KT   | 068897/152341 |
| FPD 1.10 KTZ                    | D 2.0   | NF 1.300 KT   | 068897/152347 |
| FPD 1.10 KTZ                    | D 2.8   | NF 1.600 KT   | 068897/152351 |
| FPD 1.10 TTZ                    | D 1.6   | NF 1.100 TT   | 068898/152342 |
| FPD 1.10 TTZ                    | D 2.0   | NF 1.300 TT   | 068898/152348 |
| FPD 1.10 TTZ                    | D 2.8   | NF 1.600 TT   | 068898/152352 |

# Pulsation damper, UFPD 06

KNF diaphragm pulsation dampers can effectively reduce the pulsation after the pump by up to 97%. Please note that the type of pulsation damper selected and the correct installation are essential in ensuring an optimal performance.

| UFPD 06 ALLOWED PRESSURE 2 BAR |         |                           |               |
|--------------------------------|---------|---------------------------|---------------|
| Type                           | Orifice | for pump type             | ID No.        |
| UFPD 06 KPZ                    | D 0.7   | NFB 5 KP                  | 069265/153125 |
| UFPD 06 KPZ                    | D 1.0   | NF 5 RP                   | 069265/153153 |
| UFPD 06 KPZ                    | D 1.2   | NF 10 / 25 KP / NFB 25 KP | 069265/153129 |
| UFPD 06 KPZ                    | D 1.4   | NF 30 / NF 60 KP          | 069265/153133 |
| UFPD 06 KPZ                    | D 1.8   | UNF 100 KP                | 069265/153137 |
| UFPD 06 KP51Z                  | D 1.4   | NF 30 / NF 60 KP51        | 156072/155543 |
| UFPD 06 KTZ                    | D 0.7   | NFB 5 KT                  | 069266/153125 |
| UFPD 06 KTZ                    | D 1.0   | NF 5 RT                   | 069266/153153 |
| UFPD 06 KTZ                    | D 1.2   | NF 10 / 25 KT / NFB 25 KT | 069266/153129 |
| UFPD 06 KTZ                    | D 1.4   | NF 30 / NF 60 KT          | 069266/153133 |
| UFPD 06 KTZ                    | D 1.8   | UNF 100 KT                | 069266/153137 |
| UFPD 06TTZ                     | D 0.7   | NFB 5 TT                  | 069267/153126 |
| UFPD 06TTZ                     | D 1.0   | NF 5 RT                   | 069267/153154 |
| UFPD 06TTZ                     | D 1.2   | NF 10 / 25 TT / NFB 25 TT | 069267/153130 |
| UFPD 06TTZ                     | D 1.4   | NF 30 / NF 60 TT          | 069267/153134 |
| UFPD 06TTZ                     | D 1.8   | UNF 100 TT                | 069267/153138 |



FPD 06 KPZ



FPD 06 KP .51Z

| UFPD 1.06 ALLOWED PRESSURE 6 BAR |         |                        |               |
|----------------------------------|---------|------------------------|---------------|
| Type                             | Orifice | for pump type          | ID No.        |
| UFPD 1.06 KPZ                    | D 0.7   | NF 1.5 KP              | 069268/153125 |
| UFPD 1.06 KPZ                    | D 1.0   | NF 1.11 KP             | 069268/153153 |
| UFPD 1.06 KPZ                    | D 1.2   | UNF 1.25 RP            | 069268/153129 |
| UFPD 1.06 KPZ                    | D 1.4   | UNF 1.60 KP            | 069268/153133 |
| UFPD 1.06 KTZ                    | D 0.7   | NF 1.5 KT / NF 1.30 KT | 069269/153125 |
| UFPD 1.06 KTZ                    | D 1.0   | NF 1.11 KT             | 069269/153153 |
| UFPD 1.06 KTZ                    | D 1.2   | UNF 1.25 RT            | 069269/153129 |
| UFPD 1.06 KTZ                    | D 1.4   | UNF 1.60 KT            | 069269/153133 |
| UFPD 1.06TTZ                     | D 0.7   | NF 1.5 TT / NF 1.30 TT | 069270/153126 |
| UFPD 1.06TTZ                     | D 1.0   | NF 1.11 TT             | 069270/153154 |
| UFPD 1.06TTZ                     | D 1.2   | UNF 1.25 RT            | 069270/153130 |
| UFPD 1.06TTZ                     | D 1.4   | UNF 1.60 TT            | 069270/153134 |

# Pulsation damper, UFPD 10

KNF diaphragm pulsation dampers can effectively reduce the pulsation after the pump by up to 97%. Please note that the type of pulsation damper selected and the correct installation are essential in ensuring an optimal performance.

| UFPD 10 ALLOWED PRESSURE 2 BAR |         |                    |               |
|--------------------------------|---------|--------------------|---------------|
| Type                           | Orifice | for pump type      | ID No.        |
| UFPD 10 KPZ                    | D 2.8   | <b>UNF 300 KP</b>  | 069271/152353 |
| UFPD 10 KPZ                    | D 3.4   | <b>UNF 600 KP</b>  | 069271/069624 |
| UFPD 10 KPZ                    | D 3.8   | <b>UNFB 100 KP</b> | 069271/170930 |
| UFPD 10 KTZ                    | D 2.8   | <b>UNF 300 KT</b>  | 069272/152353 |
| UFPD 10 KTZ                    | D 3.4   | <b>UNF 600 KT</b>  | 069272/069624 |
| UFPD 10 KTZ                    | D 3.8   | <b>UNFB 100 KT</b> | 069272/170930 |
| UFPD 10 TTZ                    | D 2.8   | <b>UNF 300 TT</b>  | 069273/152354 |
| UFPD 10 TTZ                    | D 3.4   | <b>UNF 600 TT</b>  | 069273/069625 |
| UFPD 10 TTZ                    | D 3.8   | <b>UNFB 100 TT</b> | 069273/170931 |

| UFPD 1.10 ALLOWED PRESSURE 6 BAR |         |                     |               |
|----------------------------------|---------|---------------------|---------------|
| Type                             | Orifice | for pump type       | ID No.        |
| UFPD 1.10 KPZ                    | D 1.6   | <b>UNF 1.100 KP</b> | 069274/152345 |
| UFPD 1.10 KPZ                    | D 2.0   | <b>UNF 1.300 KP</b> | 069274/152349 |
| UFPD 1.10 KPZ                    | D 2.8   | <b>UNF 1.600 KP</b> | 069274/152353 |
| UFPD 1.10 KTZ                    | D 1.6   | <b>UNF 1.100 KT</b> | 069275/152345 |
| UFPD 1.10 KTZ                    | D 2.0   | <b>UNF 1.300 KT</b> | 069275/152349 |
| UFPD 1.10 KTZ                    | D 2.8   | <b>UNF 1.600 KT</b> | 069275/152353 |
| UFPD 1.10 TTZ                    | D 1.6   | <b>UNF 1.100 TT</b> | 069276/152346 |
| UFPD 1.10 TTZ                    | D 2.0   | <b>UNF 1.300 TT</b> | 069276/152350 |
| UFPD 1.10 TTZ                    | D 2.8   | <b>UNF 1.600 TT</b> | 069276/152354 |



FPD 10 KPZ

# Pressure control valves, FDV 30

KNF diaphragm pressure valves can be used to keep the system pressure constant. Either as pressure relief valve to reduce pressure peaks or to prevent the liquid from being sucked directly through the pump. This accessory can be used in combination with a KNF diaphragm pump or as an individual product.

The FDV pressure valves are suitable for use with liquids and gases. The required pressure can be set by using a spindle/spring combination. This presses down on a diaphragm which is in contact with the liquid or gas.

| FDV 30        |           |               |
|---------------|-----------|---------------|
| Type          | Set value | ID No.        |
| FDV 30 KPZ    | 0.5 bar   | 060291/068362 |
| FDV 30 KVZ    | 0.5 bar   | 060292/068362 |
| FDV 30 KP.51Z | 0.5 bar   | 156064/068362 |
| FDV 30TVZ     | 0.5 bar   | 060293/068362 |
| FDV 30 KTZ    | 0.5 bar   | 060748/068362 |
| FDV 30TTZ     | 0.5 bar   | 060294/068362 |



FDV 30 KPZ

| FDV 31     |                   |               |
|------------|-------------------|---------------|
| Type       |                   | ID No.        |
| FDV 31 KPZ | with turning knob | 063720/000000 |
| FDV 31 KVZ | with turning knob | 063721/000000 |
| FDV 31TVZ  | with turning knob | 063723/000000 |
| FDV 31 KTZ | with turning knob | 063722/000000 |
| FDV 31TTZ  | with turning knob | 063724/000000 |



FDV 31 KPZ

| FDV 1.30     |           |               |
|--------------|-----------|---------------|
| Type         | Set value | ID No.        |
| FDV 1.30 KPZ | 3.0 bar   | 060749/068377 |
| FDV 1.30 KVZ | 3.0 bar   | 060750/068377 |
| FDV 1.30TVZ  | 3.0 bar   | 060752/068377 |
| FDV 1.30 KTZ | 3.0 bar   | 060751/068377 |
| FDV 1.30TTZ  | 3.0 bar   | 060753/068377 |

| FDV 1.31     |                   |               |
|--------------|-------------------|---------------|
| Type         |                   | ID No.        |
| FDV 1.31 KPZ | with turning knob | 063725/000000 |
| FDV 1.31 KVZ | with turning knob | 063726/000000 |
| FDV 1.31TVZ  | with turning knob | 063728/000000 |
| FDV 1.31 KTZ | with turning knob | 063727/000000 |
| FDV 1.31TTZ  | with turning knob | 063729/000000 |

# Pressure control valves, FDV 300

KNF diaphragm pressure valves can be used to keep the system pressure constant. Either as pressure relief valve to reduce pressure peaks or to prevent the liquid from being sucked directly through the pump. This accessory can be used in combination with a KNF diaphragm pump or as an individual product.

The FDV pressure valves are suitable for use with liquids and gases. The required pressure can be set by using a spindle/spring combination. This presses down on a diaphragm which is in contact with the liquid or gas.

| FDV 300     |           |               |
|-------------|-----------|---------------|
| Type        | Set value | ID No.        |
| FDV 300 KPZ | 1.0 bar   | 150032/068373 |
| FDV 300 KVZ | 1.0 bar   | 150076/068373 |
| FDV 300TVZ  | 1.0 bar   | 150077/068373 |
| FDV 300 KTZ | 1.0 bar   | 150030/068373 |
| FDV 300TTZ  | 1.0 bar   | 150031/068373 |

| FDV 301     |                   |               |
|-------------|-------------------|---------------|
| Type        |                   | ID No.        |
| FDV 301 KPZ | with turning knob | 069224/000000 |
| FDV 301 KVZ | with turning knob | 150291/000000 |
| FDV 301 TVZ | with turning knob | 150294/000000 |
| FDV 301 KTZ | with turning knob | 150292/000000 |
| FDV 301 TTZ | with turning knob | 150295/000000 |

| FDV 1.300     |           |               |
|---------------|-----------|---------------|
| Type          | Set value | ID No.        |
| FDV 1.300 KPZ | 3.0 bar   | 150033/068377 |
| FDV 1.300 KVZ | 3.0 bar   | 150078/068377 |
| FDV 1.300TVZ  | 3.0 bar   | 150079/068377 |
| FDV 1.300 KTZ | 3.0 bar   | 150034/068377 |
| FDV 1.300TTZ  | 3.0 bar   | 150035/068377 |

| FDV 1.301     |                   |               |
|---------------|-------------------|---------------|
| Type          |                   | ID No.        |
| FDV 1.301 KPZ | with turning knob | 150293/000000 |
| FDV 1.301 KVZ | with turning knob | 150296/000000 |
| FDV 1.301 TVZ | with turning knob | 150298/000000 |
| FDV 1.301 KTZ | with turning knob | 150297/000000 |
| FDV 1.301 TTZ | with turning knob | 150299/000000 |



FDV 300 TTZ



FDV 301 TTZ



# Pressure control valves, UFDV 30

KNF diaphragm pressure valves can be used to keep the system pressure constant. Either as pressure relief valve to reduce pressure peaks or to prevent the liquid from being sucked directly through the pump. This accessory can be used in combination with a KNF diaphragm pump or as an individual product.

The FDV pressure valves are suitable for use with liquids and gases. The required pressure can be set by using a spindle/spring combination. This presses down on a diaphragm which is in contact with the liquid or gas.

| UFDV 30     |           |               |
|-------------|-----------|---------------|
| Type        | Set value | ID No.        |
| UFDV 30 KPZ | 0.5 bar   | 067424/068362 |
| UFDV 30 KVZ | 0.5 bar   | 067425/068362 |
| UFDV 30 KTZ | 0.5 bar   | 067426/068362 |
| UFDV 30 TVZ | 0.5 bar   | 067427/068362 |
| UFDV 30 TTZ | 0.5 bar   | 067428/068362 |



UFDV 30 KPZ

| UFDV 31     |                   |               |
|-------------|-------------------|---------------|
| Type        |                   | ID No.        |
| UFDV 31 KPZ | with turning knob | 067434/000000 |
| UFDV 31 KVZ | with turning knob | 067435/000000 |
| UFDV 31 KTZ | with turning knob | 067436/000000 |
| UFDV 31 TVZ | with turning knob | 067437/000000 |
| UFDV 31 TTZ | with turning knob | 067438/000000 |



UFDV 31 KPZ

| UFDV 1.30     |           |               |
|---------------|-----------|---------------|
| Type          | Set value | ID No.        |
| UFDV 1.30 KPZ | 3.0 bar   | 067429/068377 |
| UFDV 1.30 KVZ | 3.0 bar   | 067430/068377 |
| UFDV 1.30 KTZ | 3.0 bar   | 067431/068377 |
| UFDV 1.30 TVZ | 3.0 bar   | 067432/068377 |
| UFDV 1.30 TTZ | 3.0 bar   | 067433/068377 |

| UFDV 1.31     |                   |               |
|---------------|-------------------|---------------|
| Type          |                   | ID No.        |
| UFDV 1.31 KPZ | with turning knob | 067439/000000 |
| UFDV 1.31 KVZ | with turning knob | 067440/000000 |
| UFDV 1.31 KTZ | with turning knob | 067441/000000 |
| UFDV 1.31 TVZ | with turning knob | 067442/000000 |
| UFDV 1.31 TTZ | with turning knob | 067443/000000 |

# Pressure control valves, UFDV 300

KNF diaphragm pressure valves can be used to keep the system pressure constant. Either as pressure relief valve to reduce pressure peaks or to prevent the liquid from being sucked directly through the pump. This accessory can be used in combination with a KNF diaphragm pump or as an individual product.

The FDV pressure valves are suitable for use with liquids and gases. The required pressure can be set by using a spindle/spring combination. This presses down on a diaphragm which is in contact with the liquid or gas.

| FDV 300      |           |               |
|--------------|-----------|---------------|
| Type         | Set value | ID No.        |
| UFDV 300 KPZ | 1.0 bar   | 150036/068373 |
| UFDV 300 KVZ | 1.0 bar   | 150080/068373 |
| UFDV 300 KTZ | 1.0 bar   | 150081/068373 |
| UFDV 300TVZ  | 1.0 bar   | 150082/068373 |
| UFDV 300TTZ  | 1.0 bar   | 150083/068373 |

| FDV 301      |                   |               |
|--------------|-------------------|---------------|
| Type         |                   | ID No.        |
| UFDV 301 KPZ | with turning knob | 150307/000000 |
| UFDV 301 KVZ | with turning knob | 150308/000000 |
| UFDV 301 KTZ | with turning knob | 150309/000000 |
| UFDV 301TVZ  | with turning knob | 150310/000000 |
| UFDV 301TTZ  | with turning knob | 150311/000000 |

| FDV 1.300      |           |               |
|----------------|-----------|---------------|
| Type           | Set value | ID No.        |
| UFDV 1.300 KPZ | 3.0 bar   | 150084/068377 |
| UFDV 1.300 KVZ | 3.0 bar   | 150085/068377 |
| UFDV 1.300 KTZ | 3.0 bar   | 150086/068377 |
| UFDV 1.300TVZ  | 3.0 bar   | 150087/068377 |
| UFDV 1.300TTZ  | 3.0 bar   | 150088/068377 |

| FDV 1.301      |                   |               |
|----------------|-------------------|---------------|
| Type           |                   | ID No.        |
| UFDV 1.301 KPZ | with turning knob | 150312/000000 |
| UFDV 1.301 KVZ | with turning knob | 150313/000000 |
| UFDV 1.301 KTZ | with turning knob | 150314/000000 |
| UFDV 1.301TVZ  | with turning knob | 150315/000000 |
| UFDV 1.301TTZ  | with turning knob | 150316/000000 |



UFDV 301 TTZ

# Filters

## Construction

Filtration is performed by a high-quality uniform mesh.

## Porosity

The two mesh sizes of 70 µm for the PVDF version and 35 µm for the PEEK version offer optimised protection while allowing sufficient flow rates up to 600 ml/min.

| FS 25   |           |              |                         |                         |        |
|---------|-----------|--------------|-------------------------|-------------------------|--------|
| Type    | Material* | Mesh opening | Max flow rate (liquids) | Connectors              | ID No. |
| FS 25T  | PVDF      | 70 µm        | 250 ml/min              | for tubes ID 3.2 / 4 mm | 165211 |
| FS 25 X | PEEK      | 35 µm        | 250 ml/min              | for tubes ID 3.2 / 4 mm | 165213 |

\* housing and filter mesh



| FS 60   |           |              |                         |               |                 |
|---------|-----------|--------------|-------------------------|---------------|-----------------|
| Type    | Material* | Mesh opening | Max flow rate (liquids) | Connectors    | ID No.          |
| FS 60T  | PVDF      | 70 µm        | 600 ml/min              | UNF 1/4" - 28 | 165210          |
| FS 60 X | PEEK      | 35 µm        | 600 ml/min              | UNF 1/4" - 28 | 323625 (1 pc)   |
| FS 60 X | PEEK      | 35 µm        | 600 ml/min              | UNF 1/4" - 28 | 323626 (10 pcs) |

\* housing and filter mesh

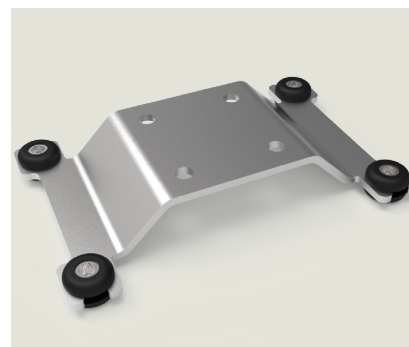


# Mounting options

| MOUNTING PLATE KIT (SCREWS INCLUDED)                                                                                  |        |
|-----------------------------------------------------------------------------------------------------------------------|--------|
| For pump types                                                                                                        | ID No. |
| FL 10, NF 5, NF 1.5, NF 10, FF 12, FF 20, NF 25, NF 1.25, NF 30, NF 1.30, NF 60<br>NMP 830, NMP 830 HP, NPK 04, FP 70 | 164313 |



| MOUNTING PLATE KIT (SCREWS INCLUDED)        |        |
|---------------------------------------------|--------|
| For pump types                              | ID No. |
| NFB 30, NFB 60, NMP 830.1.2, NMP 830.1.2 HP | 325885 |



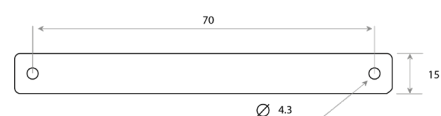
| MOUNTING SET FOR FL 10 |        |
|------------------------|--------|
| For pump types         | ID No. |
| FL 10                  | 174964 |



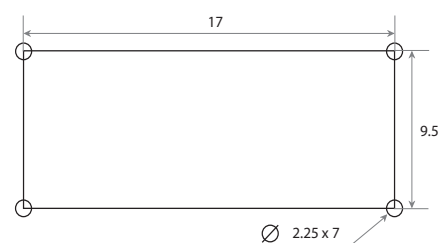
| ANTI-VIBRATION MOUNTING |              |        |
|-------------------------|--------------|--------|
| Type                    | Connection   | ID No. |
| Round buffer (1)        | M3           | 060512 |
| Shock Mount (2)         | 2x M3 x 6 mm | 019646 |



| MOUNTING SET FOR FP 70 |        |
|------------------------|--------|
| For pump types         | ID No. |
| FP 70                  | 330541 |



| MOUNTING SET FOR FF 12 / FF20 |        |
|-------------------------------|--------|
| For pump types                | ID No. |
| FF 12, FF 20                  | 177424 |



# Hoses and hydraulic connectors

| HOSE-SET |           |         |               |        |
|----------|-----------|---------|---------------|--------|
| Material | Dimension | Length  | Connector(s)  | ID No. |
| FEP      | AD 1/16   | 1000 mm | UNF 1/4" (1x) | 166335 |



| HOSE-SET |           |         |               |        |
|----------|-----------|---------|---------------|--------|
| Material | Dimension | Length  | Connector(s)  | ID No. |
| FEP      | AD 1/8    | 1000 mm | UNF 1/4" (2x) | 069790 |



| HOSE-SETS |           |         |               |        |
|-----------|-----------|---------|---------------|--------|
| Material  | Dimension | Length  | Connector(s)  | ID No. |
| FEP       | AD 1/8    | 1000 mm | UNF 1/4" (1x) | 166329 |
| FEP       | AD 1/8    | 2000 mm | UNF 1/4" (1x) | 166330 |



| HOSES               |               |           |              |        |
|---------------------|---------------|-----------|--------------|--------|
| Material            | Dimension     | Length    | Connector(s) | ID No. |
| PA12 blue           | ID 2.5 X 0.75 | per meter | no           | 166359 |
| PA12 red            | ID 2X1        |           | no           | 166360 |
| PA white            | ID 4X1        |           | no           | 019490 |
| PE white            | ID 4X1        |           | no           | 019491 |
| PTFE transparent    | ID 4X1        |           | no           | 019241 |
| SI 55SH transparent | ID 4X1        |           | no           | 019238 |



| ADAPTER                         |        |
|---------------------------------|--------|
| Material                        | ID No. |
| FIT-G A/I NPT1/8 UNF1/4-28 PTFE | 155743 |

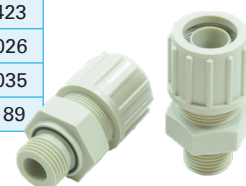


# Hoses and hydraulic connectors

| HOSE BARBS      |                  |                  |          |               |                        |        |
|-----------------|------------------|------------------|----------|---------------|------------------------|--------|
| Hose connection | Material housing | Material sealing | Thread   | Thread length | for pump types         | ID No. |
| DN 04           | PP               | EPDM             | G 1/8"   | 8 mm          | FP 70                  | 326641 |
| DN 04           | PP               | FKM              | G 1/8"   | 8 mm          | FP 70                  | 326642 |
| DN 08           | PP               | FKM              | G 1/8"   | 8 mm          | FP 150                 | 178447 |
| DN 08           | ETFE             | EPDM             | NPT 1/8" | 8.3 mm        | UNF 100, Liquiport 100 | 168555 |
| DN 08           | ETFE             | FFKM             | NPT 1/8" | 8.3 mm        | UNF 100, Liquiport 100 | 168547 |
| DN 10           | PP               | FKM              | G 3/8"   | 12 mm         | FP 400                 | 327161 |
| DN 12           | ETFE             | EPDM             | NPT 3/8" | 12.5 mm       | UNF 300, Liquiport 300 | 168549 |
| DN 12           | ETFE             | FFKM             | NPT 3/8" | 12.5 mm       | UNF 300, Liquiport 300 | 168551 |
| DN 16           | PP               | FKM              | G 1/2"   | 14 mm         | FK 1100                | 178172 |



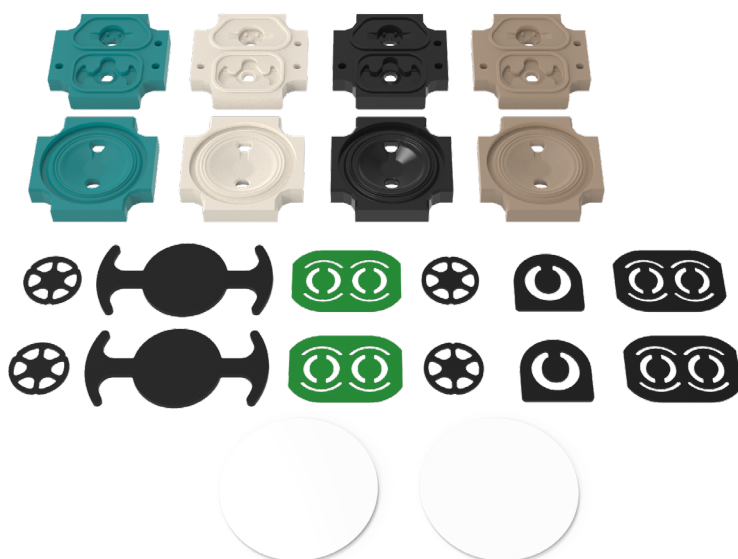
| COMPRESSION FITTINGS |                  |                  |        |               |                     |        |
|----------------------|------------------|------------------|--------|---------------|---------------------|--------|
| Hose connection      | Material housing | Material sealing | Thread | Thread length | for pump types      | ID No. |
| DN 04/06             | PP               | FKM              | G 1/8" | 8 mm          | FP 70               | 175476 |
| DN 06/08             | PP               | FKM              | G 1/8" | 8 mm          | FP 70               | 175454 |
| DN 08/10             | PP               | FKM              | G 1/8" | 8 mm          | FP 150 / FP 1.150   | 178423 |
| DN 10/14             | PP               | FKM              | G 3/8" | 12 mm         | FP 400 / FP 1.400   | 328026 |
| DN 12/16             | PP               | FKM              | G 3/8" | 12 mm         | FP 1.400            | 330035 |
| DN 16/22             | PP               | FKM              | G 1/2" | 14 mm         | FK 1100 / FK 1.1100 | 176189 |



| PLUG FITTING    |                  |                  |        |               |                |        |
|-----------------|------------------|------------------|--------|---------------|----------------|--------|
| Hose connection | Material housing | Material sealing | Thread | Thread length | for pump types | ID No. |
| AD 06           | POM              | NBR              | G 1/8" | 5.5 mm        | FP 70          | 327115 |
| AD 08           | POM              | NBR              | G 1/8" | 5.5 mm        | FP 70          | 174938 |



# Chemical resistance kit



Kit ID-No. 173610

| CONTENTS OF THE KIT |          |                         |          |
|---------------------|----------|-------------------------|----------|
| Plastic head parts: |          |                         |          |
| Colour              | Material |                         | Quantity |
| Turquoise           | PP       | Polypropylene           | 2        |
| Cream               | PVDF     | Polyvinylidene fluoride | 2        |
| Black               | PPS      | Polyphenylene sulphide  | 2        |
| Brown               | PEEK     | Polyetheretherketone    | 2        |

| Elastomer parts: |          |  |          |
|------------------|----------|--|----------|
| Colour           | Material |  | Quantity |
| Black            | EPDM-A   |  | 2        |
| Black            | EPDM-B   |  | 2        |
| Green            | FKM      |  | 2        |
| Black            | FFKM-A   |  | 2        |
| Black            | FFKM-B   |  | 2        |
| Black            | FFKM-C   |  | 2        |
| White            | PTFE     |  | 2        |

There are always two parts of each material included in the kit. One for the soak test and one which can be used as a comparison. Instruction is included!