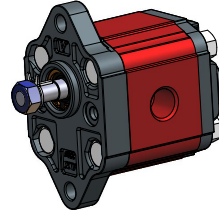


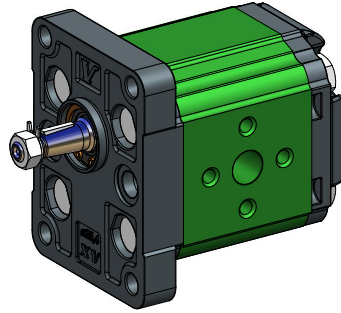
REVERSIBLE MOTORS



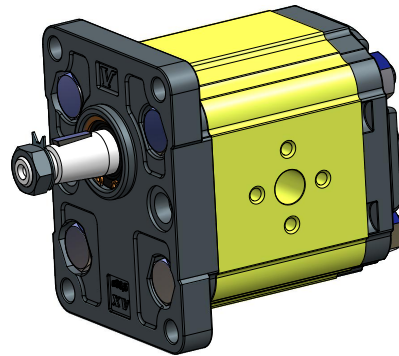
ENGLISH



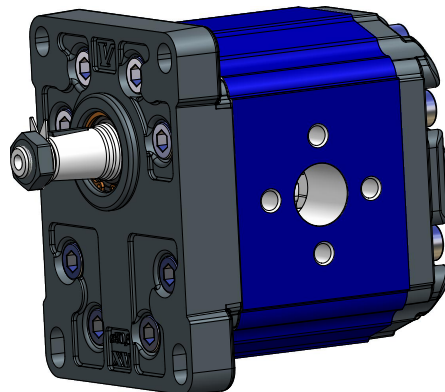
XV-0M



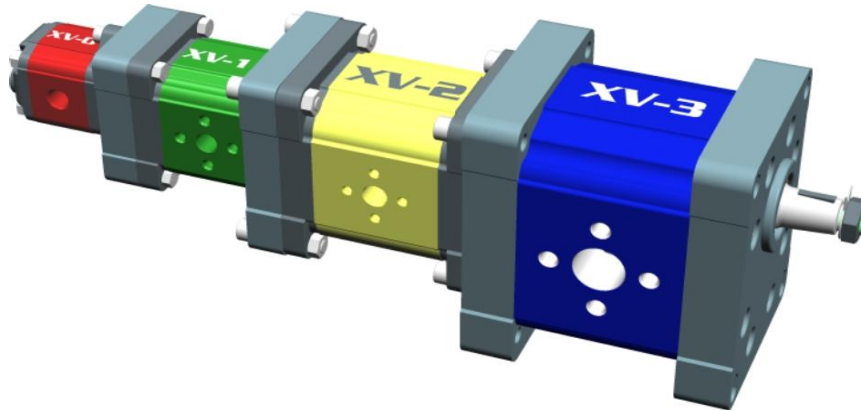
XV-1M



XV-2M



XV-3M



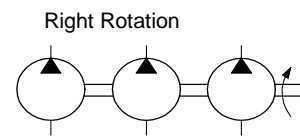
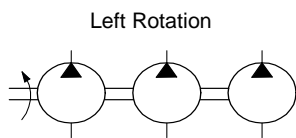
| | | |
|--------------|----------------------------|----------------|
| XV-0P | Unidirectional Pump | |
| XV-1P | Left Rotation | Right Rotation |
| XV-2P | | |
| XV-3P | | |

| | | |
|--------------|-----------------------------|----------------|
| XV-0U | Unidirectional Motor | |
| XV-1U | Left Rotation | Right Rotation |
| XV-2U | | |
| XV-3U | | |

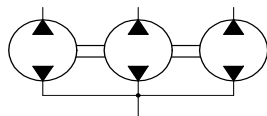
| | | |
|--------------|------------------------|-------------------|
| XV-0R | Reversible Pump | |
| XV-1R | External drainage | Internal drainage |
| XV-2R | | |
| XV-3R | | |

| | | |
|--------------|-------------------------|-------------------|
| XV-0M | Reversible Motor | |
| XV-1M | External drainage | Internal drainage |
| XV-2M | | |
| XV-3M | | |

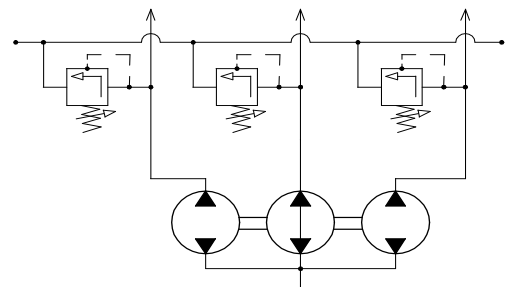
| | | | | |
|--------------|--------------|--------------|--------------|--|
| XV-0T | XV-1T | XV-2T | XV-3T | Primary element of multiple pump |
| XV-0I | XV-1I | XV-2I | XV-3I | Intermediate element of multiple pump |
| XV-0F | XV-1F | XV-2F | XV-3F | Final element of multiple pump |



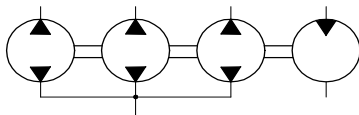
| | |
|--------------|---------------------|
| KV-DF | Flow divider |
|--------------|---------------------|



| | |
|---------------|---------------------------------|
| KV-DFV | Flow divided with valves |
|---------------|---------------------------------|



| | |
|----------------|--------------------------------|
| KV-DF+M | Flow divider with motor |
|----------------|--------------------------------|



The descriptions and dimensions stated herein are not binding. Vivoil Oleodinamica Vivolo s.r.l reserves the right to make changes as it deems necessary, at any time and without notice.

| | |
|---|----|
| Introduction | 7 |
| Summary: Displacements - Pressures - Speeds | 9 |
| General technical data | 10 |
| Torques allowed on shaft | 12 |
| Useful calculation formulas | 13 |
| Characteristic Curves | 14 |

XV-0M

| | |
|--|-----------|
| Standard ø22 FLANGE - Table of variations | 18 |
|--|-----------|



STANDARD MOTOR W/ BODY INLET AND OUTLET
ø22 FLANGE - PARALLEL SHAFT

Example of ordering code:

XM001

X0M0601ABBE XV0M/0.76 - Ø22 /R - CI001 - 1/4" BSP - 1/4" BSP - Dren. est.

| | |
|--|-----------|
| ø22 "BH" Body-Shaped FLANGE - Table of variations | 22 |
|--|-----------|



BH TYPE MOTOR W/ BODY INLET AND OUTLET
ø22 BODY-SHAPED FLANGE - MILLED SHANK

Example of ordering code:

XM012

X0M0607BBBE XV0M/0.76 - Ø22 BH /R - CF001 - 1/4" BSP - 1/4" BSP - Dren. est.

| | |
|--|-----------|
| ø22 "HY" Body-Shaped FLANGE - Table of variations | 26 |
|--|-----------|



HY TYPE MOTOR W/ BODY INLET AND OUTLET
ø22 BODY-SHAPED FLANGE - MILLED SHANK

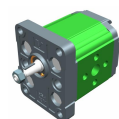
Example of ordering code:

XM017

X0M0621BBBE XV0M/0.76 - Ø22 HY /R - CF001 - 1/4" BSP - 1/4" BSP - Dren. est.

XV-1M

| | |
|---|-----------|
| ø25.4 FLANGE - Table of variations | 30 |
|---|-----------|

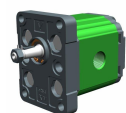


STANDARD EUROPEAN MOTOR
ø25.4 FLANGE - TAPER SHAFT

Example of ordering code:

XM101

X1M2501FIIE XV1M/3.8 - Ø25.4 /R - CO001 - Ø30 M6 - Ø30 M6 - Dren. est.



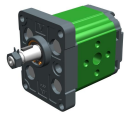
STANDARD EUROPEAN MOTOR
ø25.4 FLANGE - TAPER SHAFT

Example of ordering code:

XM105

X1M2501FBBE XV1M/3.8 - Ø25.4 /R - CO001 - 3/8" BSP - 3/8" BSP - Dren. est.

ø30 FLANGE - Table of variations 36



STANDARD MOTOR
ø30 FLANGE - TAPER SHAFT

Example of ordering code:

XM113

X1M2507GII XV1M/3.8 - Ø30 /R - CO002 - Ø30 M6 - Ø30 M6 - Dren. est.

ø32 "BH" Body-Shaped FLANGE - Table of variations 40



BH TYPE MOTOR W/ BODY INLET AND OUTLET
ø32 BODY-SHAPED FLANGE - MILLED SHANK

Example of ordering code:

XM119

X1M2525DBBE XV1M/3.8 - Ø32 BH /R - CF002 - 3/8" BSP - 3/8" BSP - Dren. est.

ø32 "HY" Body-Shaped FLANGE - Table of variations 44



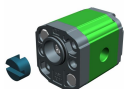
HY TYPE MOTOR W/ BODY INLET AND OUTLET
ø32 BODY-SHAPED FLANGE - MILLED SHANK

Example of ordering code:

XM140

X1M2531DBBE XV1M/3.8 - Ø32 HY /R - CF002 - 3/8" BSP - 3/8" BSP - Dren. est.

Standard German ø32 "BH" FLANGE - Table of variations 48



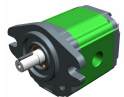
STANDARD GERMAN "BH" TYPE MOTOR W/ BODY INLET AND OUTLET
ø32 BODY-SHAPED FLANGE - MILLED SHANK

Example of ordering code:

XM161

X1M2519CBBE XV1M/3.8 - Ø32 BH /R - CF001 - 3/8" BSP - 3/8" BSP - Dren. est.

ø50.8 FLANGE "SAE AA" - Table of variations 52



SAE AA TYPE MOTOR W/ BODY INLET AND OUTLET
ø50.8 FLANGE - PARALLEL SHAFT

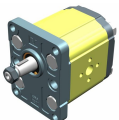
Example of ordering code:

XM168

X1M2561BBBE XV1M/3.8 - Ø50.8 SAE AA /R - CI002 - 3/8" BSP - 3/8" BSP - Dren. est.

XV-2M

ø36.5 FLANGE - Table of variations 56

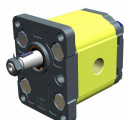


STANDARD EUROPEAN MOTOR
ø36.5 FLANGE - TAPER SHAFT

Example of ordering code:

XM201

X2M5101EPPE XV2M/17 - Ø36.5 /R - CO001 - Ø40 M8 - Ø40 M8 - Dren. est.



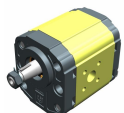
STANDARD EUROPEAN MOTOR
ø36.5 FLANGE - TAPER SHAFT

Example of ordering code:

XM207

X2M5101ECCE XV2M/17 - Ø36.5 /R - CO001 - 3/4" BSP - 3/4" BSP - Dren. est.

ø50 "BH" Body-Shaped FLANGE - Table of variations 62



BH TYPE MOTOR
ø50 BODY-SHAPED FLANGE - TAPER SHAFT

Example of ordering code:

XM210

X2M5107FRRE XV2M/17 - Ø50 BH /R - CO002 - Ø35 M6 # - Ø35 M6 # - Dren. est.

ø50 "HY" Body-Shaped FLANGE - Table of variations

66



HY TYPE MOTOR
ø50 BODY-SHAPED FLANGE - TAPER SHAFT

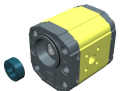
Example of ordering code:

XM213

X2M5113FRRE XV2M/17 - ø50 HY /R - CO002 - ø35 M6 # - ø35 M6 # - Dren. est.

Standard German ø52 "BH" FLANGE - Table of variations

70



STANDARD GERMAN "BH" TYPE MOTOR
ø52 BODY-SHAPED FLANGE - MILLED SHANK

Example of ordering code:

XM216

X2M5119CRRE XV2M/17 - ø52 /R - CF001 - ø35 M6 # - ø35 M6 # - Dren. est.

ø80 FLANGE - Table of variations

74



STANDARD GERMAN MOTOR
ø80 FLANGE - TAPER SHAFT

Example of ordering code:

XM217

X2M5125FRRE XV2M/17 - ø80 /R - CO002 - ø35 M6 # - ø35 M6 # - Dren. est.

ø82.5 FLANGE "SAE A" - Table of variations

78



SAE A TYPE MOTOR
ø82.5 FLANGE - SPLINED SHAFT

Example of ordering code:

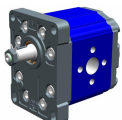
XM219

X2M5131IRRE XV2M/17 - ø82.5 SAE /R - SCF04 - ø35 M6 # - ø35 M6 # - Dren. est.

XV-3M

ø50.8 FLANGE - Table of variations

82

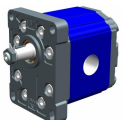


STANDARD EUROPEAN MOTOR
ø50.8 FLANGE - TAPER SHAFT

Example of ordering code:

XM301

X3M7801ABBE XV3M/38 - ø50,8 /R - CO001 - ø51 M10 - ø51 M10 - Dren. est.



STANDARD EUROPEAN MOTOR
ø50.8 FLANGE - TAPER SHAFT

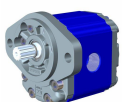
Example of ordering code:

XM302

X3M7801AEFE XV3M/38 - ø50,8 /R - CO001 - 1" BSP - 1" BSP - Dren. est.

ø101.6 FLANGE ""SAE B"" - Table of variations

88

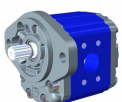


SAE B TYPE MOTOR
ø101.6 FLANGE - SPLINED SHAFT

Example of ordering code:

XM331

X3M7831IEEE XV3M/38 - ø101,6 SAE B /R - SCF04 - 1" BSP - 1" BSP - Dren. est.



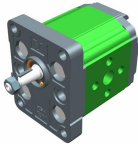
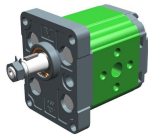




SAE B TYPE MOTOR
ø101.6 FLANGE - SPLINED SHAFT

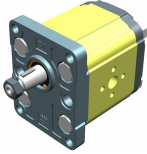
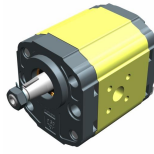
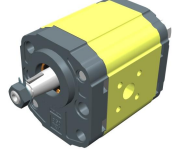
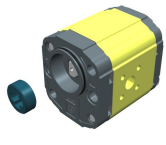
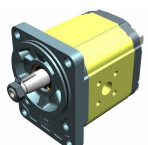
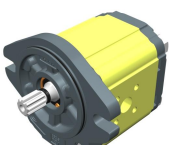
Example of ordering code:

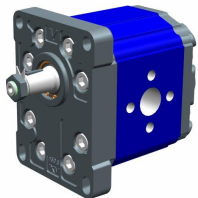
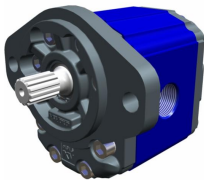
XM332

X3M7831IOOE XV3M/38 - ø101,6 SAE B /R - SCF04 - SAE ø32 # - SAE ø32 # - Dren. est.

| XV-0M | | |
|---|---|---|
|  |  |  |
| References: XM-001 | References: XM-012 | References: XM-017 |
| Standard Ø22 FLANGE | Ø22 BH FLANGE | Ø22 HY FLANGE |

| XV-1M | | |
|--|--|--|
|  |  |  |
| References: XM-101 | References: XM-113 | References: XM-119 |
| Ø25.4 FLANGE | Ø30 FLANGE | Ø32 BH FLANGE |
|  |  |  |
| References : XM-140 | References: XM-161 | References: XM-168 |
| Ø32 HY FLANGE | Standard German Ø32 BH | Ø50.8 SAE AA FLANGE |

| XV-2M | | |
|---|---|---|
|  |  |  |
| References : XM-201 | References : XM-210 | References: XM-213 |
| Ø36.5 FLANGE | Ø50 BH FLANGE | Ø50 HY FLANGE |
|  |  |  |
| References: XM-216 | References : XM-217 | References : XM-219 |
| Standard German Ø52 BH FLANGE | Standard German Ø80 FLANGE | Ø82.5 SAE A FLANGE |

| XV-3M | |
|---|---|
|  |  |
| References : XM-301 | References : XM-331 |
| FLANGE Ø50,8 - Standard | FLANGE Ø101,6 SAE B |

Vivoil Oleodinamica Vivolo s.r.l. presents a new series of gear reversible motors called XV-M. The quality of the product has been improved on by exploiting new and innovative solutions, both technical and constructive, for which the company has been **awarded 3 patents.**

The motors are divided into four groups:

The main features of the XV-0M are the following:

Displacements from 0.45 cm³ / revolution to 2.28 cm³/revolution.

Maximum pressures up to **280 bar**.

Versions w/ flanges: Ø22 – Standard;
Ø22 BH – Sagomata;
Ø22 HY – Sagomata.

Rotation speeds up to **9000 rpm**.

Configurations with inlet and outlet in the body, flange and cover.

Available shafts: Cylindrical with Woodruff key;

Milled shank;

Tapered 1:8 Woodruff key.

A version with internal drainage is also available.

The main features of the XV-1M are the following:

Displacements from 0.91 cm³ / revolution to 9.88 cm³/ revolution.

Maximum pressures up to **300 bar**.

Versions w/ flanges: Ø25.4 – Standard European;
Ø30 – Standard;
Ø32 BH – Body-Shaped;
Ø32 HY – Body-Shaped;
Ø32 BH – Standard German – Body-Shaped;
Ø50.8 – SAE AA

Rotation speeds up to **6000 rpm**

Configurations with inlet and outlet in the body, flange and cover.

Available shafts: Tapered 1:8 Woodruff key;

Parallel with key;

Milled shank;

Splined.

A version with internal drainage is also available.

The main features of the XV-2M are the following:

Displacements from 4.2 cm³ / revolution a 39.6 cm³/ revolution.

Maximum pressures up to **300 bar**.

Versions w/ flanges: Ø36,5 – Standard Europea;
Ø50 BH – Body-Shaped;
Ø50 HY – Body-Shaped;
Ø52 BH - Standard German – Body-Shaped;
Ø80 – Standard German;
Ø82,5 – SAE A.

Rotation speeds up to **3500 rpm**

Configurations with inlet and outlet in the body, flange and cover.

Available shafts: Tapered 1:8 Woodruff key;

Parallel with key;

Milled shank;

Splined.

A version with internal drainage is also available.

The main features of the XV-3M are the following:

Displacements from 14.89 cm³ / revolution to 86.87cm³/ revolution.

Maximum pressures up to **320 bar**.

Versions w/ flanges: Ø50,8 – Standard European;

Rotation speeds up to **3000 rpm**.

Available shafts: Tapered 1:8 Woodruff key;

Parallel with key;

Splined.

A version with internal drainage is also available.

Summary: Displacements - Torque - Power - Pressures - Speeds

| | TYPE | Displacement | Torque | Power | Max Inlet Pressure | Max Drain Pressure | Min Starting Pressure | Min Speed | Max Speed |
|--------------|----------------------------|----------------------------|--------------------------|----------|--------------------|--------------------|-----------------------|--------------|--------------|
| | | | 1000 rev/min 100 bar | | | | | | |
| XV-0M | XV-0M/0.45 | 0.45 cm ³ /rev | 0,61 Nm | 0,06 KW | 280 bar | 1 bar | 25 bar | 700 rev/min | 9000 rev/min |
| | XV-0M/0.57 | 0.56 cm ³ /rev | 0,76 Nm | 0,08 KW | 280 bar | 1 bar | 25 bar | 700 rev/min | 9000 rev/min |
| | XV-0M/0.76 | 0.75 cm ³ /rev | 1,01 Nm | 0,11 KW | 280 bar | 1 bar | 25 bar | 700 rev/min | 9000 rev/min |
| | XV-0M/0.98 | 0.92 cm ³ /rev | 1,24 Nm | 0,13 KW | 280 bar | 1 bar | 20 bar | 700 rev/min | 6000 rev/min |
| | XV-0M/1.27 | 1.26 cm ³ /rev | 1,70 Nm | 0,18 KW | 280 bar | 1 bar | 15 bar | 700 rev/min | 6000 rev/min |
| | XV-0M/1.52 | 1.48 cm ³ /rev | 2,00 Nm | 0,21 KW | 280 bar | 1 bar | 10 bar | 700 rev/min | 6000 rev/min |
| | XV-0M/2.30 | 2.28 cm ³ /rev | 3,08 Nm | 0,32 KW | 210 bar | 1 bar | 10 bar | 700 rev/min | 5000 rev/min |
| XV-1M | XV-1M/0.9 | 0.91 cm ³ /rev | 1,23 Nm | 0,13 KW | 280 bar | 6 bar | 30 bar | 700 rev/min | 6000 rev/min |
| | XV-1M/1.2 | 1.17 cm ³ /rev | 1,58 Nm | 0,17 KW | 290 bar | 6 bar | 30 bar | 700 rev/min | 6000 rev/min |
| | XV-1M/1.7 | 1.56 cm ³ /rev | 2,11 Nm | 0,22 KW | 290 bar | 6 bar | 30 bar | 700 rev/min | 6000 rev/min |
| | XV-1M/2.2 | 2.08 cm ³ /rev | 2,81 Nm | 0,29 KW | 290 bar | 6 bar | 25 bar | 700 rev/min | 6000 rev/min |
| | XV-1M/2.6 | 2.60 cm ³ /rev | 3,52 Nm | 0,37 KW | 300 bar | 6 bar | 20 bar | 700 rev/min | 6000 rev/min |
| | XV-1M/3.2 | 3.12 cm ³ /rev | 4,22 Nm | 0,44 KW | 300 bar | 6 bar | 15 bar | 700 rev/min | 6000 rev/min |
| | XV-1M/3.8 | 3.64 cm ³ /rev | 4,92 Nm | 0,52 KW | 300 bar | 6 bar | 15 bar | 700 rev/min | 6000 rev/min |
| | XV-1M/4.3 | 4.16 cm ³ /rev | 5,63 Nm | 0,59 KW | 300 bar | 6 bar | 15 bar | 700 rev/min | 6000 rev/min |
| | XV-1M/4.9 | 4.94 cm ³ /rev | 6,68 Nm | 0,70 KW | 300 bar | 6 bar | 15 bar | 700 rev/min | 6000 rev/min |
| | XV-1M/5.9 | 5.85 cm ³ /rev | 7,91 Nm | 0,83 KW | 300 bar | 6 bar | 15 bar | 700 rev/min | 5000 rev/min |
| | XV-1M/6.5 | 6.50 cm ³ /rev | 8,79 Nm | 0,92 KW | 300 bar | 6 bar | 10 bar | 700 rev/min | 5000 rev/min |
| | XV-1M/7.8 | 7.54 cm ³ /rev | 10,20 Nm | 1,07 KW | 260 bar | 6 bar | 10 bar | 700 rev/min | 5000 rev/min |
| | XV-1M/9.8 | 9.88 cm ³ /rev | 13,37 Nm | 1,40 KW | 230 bar | 6 bar | 10 bar | 700 rev/min | 4000 rev/min |
| | XV-2M | XV-2M/4 | 4.2 cm ³ /rev | 5,68 Nm | 0,60 KW | 300 bar | 6 bar | 30 bar | 700 rev/min |
| XV-2M/6 | | 6.0 cm ³ /rev | 8,12 Nm | 0,85 KW | 300 bar | 6 bar | 25 bar | 700 rev/min | 3500 rev/min |
| XV-2M/9 | | 8.4 cm ³ /rev | 11,36 Nm | 1,19 KW | 300 bar | 6 bar | 20 bar | 700 rev/min | 3500 rev/min |
| XV-2M/11 | | 10.8 cm ³ /rev | 14,61 Nm | 1,53 KW | 300 bar | 6 bar | 20 bar | 700 rev/min | 3500 rev/min |
| XV-2M/14 | | 14.4 cm ³ /rev | 19,48 Nm | 2,04 KW | 290 bar | 6 bar | 15 bar | 700 rev/min | 3500 rev/min |
| XV-2M/17 | | 16.8 cm ³ /rev | 22,73 Nm | 2,38 KW | 270 bar | 6 bar | 15 bar | 700 rev/min | 3500 rev/min |
| XV-2M/19 | | 19.2 cm ³ /rev | 25,97 Nm | 2,72 KW | 250 bar | 6 bar | 15 bar | 700 rev/min | 3000 rev/min |
| XV-2M/22 | | 22.8 cm ³ /rev | 30,84 Nm | 3,23 KW | 240 bar | 6 bar | 15 bar | 700 rev/min | 3000 rev/min |
| XV-2M/26 | | 26.2 cm ³ /rev | 35,44 Nm | 3,71 KW | 210 bar | 6 bar | 15 bar | 700 rev/min | 3000 rev/min |
| XV-2M/30 | | 30.0 cm ³ /rev | 40,58 Nm | 4,25 KW | 200 bar | 6 bar | 15 bar | 700 rev/min | 2500 rev/min |
| XV-2M/34 | | 34.2 cm ³ /rev | 46,27 Nm | 4,85 KW | 190 bar | 6 bar | 15 bar | 700 rev/min | 2500 rev/min |
| XV-3M | XV-3M/40 | 39.6 cm ³ /rev | 53,57 Nm | 5,61 KW | 180 bar | 6 bar | 15 bar | 700 rev/min | 2000 rev/min |
| | XV-3M/15 | 14.89 cm ³ /rev | 20,14 Nm | 2,11 KW | 320 bar | 6 bar | 20 bar | 700 rev/min | 3000 rev/min |
| | XV-3M/18 | 17.37 cm ³ /rev | 23,50 Nm | 2,46 KW | 320 bar | 6 bar | 20 bar | 700 rev/min | 3000 rev/min |
| | XV-3M/21 | 21.10 cm ³ /rev | 28,54 Nm | 2,99 KW | 300 bar | 6 bar | 15 bar | 700 rev/min | 3000 rev/min |
| | XV-3M/27 | 26.97 cm ³ /rev | 36,49 Nm | 3,82 KW | 270 bar | 6 bar | 10 bar | 700 rev/min | 3000 rev/min |
| | XV-3M/32 | 32.27 cm ³ /rev | 43,66 Nm | 4,57 KW | 270 bar | 6 bar | 10 bar | 700 rev/min | 3000 rev/min |
| | XV-3M/38 | 38.47 cm ³ /rev | 52,04 Nm | 5,45 KW | 270 bar | 6 bar | 10 bar | 700 rev/min | 2800 rev/min |
| | XV-3M/43 | 43.44 cm ³ /rev | 58,77 Nm | 6,15 KW | 250 bar | 6 bar | 10 bar | 700 rev/min | 2800 rev/min |
| | XV-3M/47 | 47.16 cm ³ /rev | 63,80 Nm | 6,68 KW | 250 bar | 6 bar | 10 bar | 700 rev/min | 2800 rev/min |
| | XV-3M/51 | 50.88 cm ³ /rev | 68,83 Nm | 7,21 KW | 250 bar | 6 bar | 10 bar | 700 rev/min | 2800 rev/min |
| | XV-3M/54 | 54.60 cm ³ /rev | 73,86 Nm | 7,74 KW | 250 bar | 6 bar | 10 bar | 700 rev/min | 2300 rev/min |
| | XV-3M/61 | 60.81 cm ³ /rev | 82,26 Nm | 8,61 KW | 220 bar | 6 bar | 10 bar | 700 rev/min | 2300 rev/min |
| | XV-3M/64 | 64.53 cm ³ /rev | 87,30 Nm | 9,14 KW | 220 bar | 6 bar | 10 bar | 700 rev/min | 2300 rev/min |
| | XV-3M/70 | 70.74 cm ³ /rev | 95,70 Nm | 10,02 KW | 210 bar | 6 bar | 10 bar | 700 rev/min | 2300 rev/min |
| | XV-3M/74 | 74.46 cm ³ /rev | 100,73 Nm | 10,55 KW | 190 bar | 6 bar | 10 bar | 700 rev/min | 2300 rev/min |
| XV-3M/90 | 86.87 cm ³ /rev | 117,52 Nm | 12,31 KW | 160 bar | 6 bar | 10 bar | 700 rev/min | 2300 rev/min | |

General technical data

| | |
|--|---|
| Type of fluid to be used | Mineral-based hydraulic oil HLP HV (D IN 51524) |
| Minimum operating viscosity | 10 mm ² /s |
| Maximum operating viscosity | 100 mm ² /s |
| Maximum admissible viscosity at start-up | 1500 mm ² /s |
| Recommended viscosity | 20 mm ² /s - 100 mm ² /s |
| Ambient temperature | -20 °C - 60°C |
| Fluid operating temperature | -15°C - 80°C |
| Recommended fluid operating temperature | 30°C – 50° C |
| For temperatures above 120°C | Request FKM seals (V iton) |
| Max. outlet fluid pressure (OUT) | 0.3 - 0.5 bars (with internal drainage) |
| Inlet fluid filtering (IN) | 30 - 60 Microns |
| Outlet fluid filtering (OUT) | 10 - 25 Microns |
| Max. inlet fluid speed (IN) | 0.5 - 1.5 m/s |
| Max. outlet fluid speed (OUT) | 3.0 - 5.5m/s |

Flow rate tables

| TYPE | cm3/ rev | Flow rate l/min | rpm | | | | | | | | | | | | | Flow rate l/min | | | |
|------------|----------|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-----------------|-------|-----------------|--|
| | | | 700 | 1000 | 1500 | 2000 | 2500 | 3000 | 3500 | 4000 | 4500 | 5000 | 5500 | 6000 | 7000 | | 8000 | 9000 | |
| XV 0M/0.45 | 0,45 | Flow rate l/min | 0,299 | 0,428 | 0,641 | 0,855 | 1,069 | 1,283 | 1,496 | 1,710 | 1,924 | 2,138 | 2,351 | 2,565 | 2,993 | 3,420 | 3,848 | Flow rate l/min | |
| XV 0M/0.57 | 0,56 | | 0,372 | 0,532 | 0,798 | 1,064 | 1,330 | 1,596 | 1,862 | 2,128 | 2,394 | 2,660 | 2,926 | 3,192 | 3,724 | 4,256 | 4,788 | | |
| XV 0M/0.76 | 0,75 | | 0,499 | 0,713 | 1,069 | 1,425 | 1,781 | 2,138 | 2,494 | 2,850 | 3,206 | 3,563 | 3,919 | 4,275 | 4,988 | 5,700 | 6,413 | | |
| XV 0M/0.98 | 0,92 | | 0,612 | 0,874 | 1,311 | 1,748 | 2,185 | 2,622 | 3,059 | 3,496 | 3,933 | 4,370 | 4,807 | 5,244 | | | | | |
| XV 0M/1.27 | 1,26 | | 0,838 | 1,197 | 1,796 | 2,394 | 2,993 | 3,591 | 4,190 | 4,788 | 5,387 | 5,985 | 6,584 | 7,182 | | | | | |
| XV 0M/1.52 | 1,48 | | 0,984 | 1,406 | 2,109 | 2,812 | 3,515 | 4,218 | 4,921 | 5,624 | 6,327 | 7,030 | 7,733 | 8,436 | | | | | |
| XV 0M/2.30 | 2,28 | | 1,516 | 2,166 | 3,249 | 4,332 | 5,415 | 6,498 | 7,581 | 8,664 | 9,747 | 10,830 | | | | | | | |

| TYPE | cm3/ rev | Flow rate l/min | rpm | | | | | | | | | | | Flow rate l/min | |
|-----------|----------|-----------------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----------------|-----------------|
| | | | 700 | 1000 | 1500 | 2000 | 2500 | 3000 | 3500 | 4000 | 4500 | 5000 | 5500 | | 6000 |
| XV 1M/0.9 | 0,91 | Flow rate l/min | 0,630 | 0,900 | 1,350 | 1,800 | 2,250 | 2,700 | 3,150 | 3,600 | 4,050 | 4,500 | 4,950 | 5,400 | Flow rate l/min |
| XV 1M/1.2 | 1,17 | | 0,840 | 1,200 | 1,800 | 2,400 | 3,000 | 3,600 | 4,200 | 4,800 | 5,400 | 6,000 | 6,600 | 7,200 | |
| XV 1M/1.7 | 1,56 | | 1,190 | 1,700 | 2,550 | 3,400 | 4,250 | 5,100 | 5,950 | 6,800 | 7,650 | 8,500 | 9,350 | 10,200 | |
| XV 1M/2.2 | 2,08 | | 1,540 | 2,200 | 3,300 | 4,400 | 5,500 | 6,600 | 7,700 | 8,800 | 9,900 | 11,000 | 12,100 | 13,200 | |
| XV 1M/2.6 | 2,6 | | 1,820 | 2,600 | 3,900 | 5,200 | 6,500 | 7,800 | 9,100 | 10,400 | 11,700 | 13,000 | 14,300 | 15,600 | |
| XV 1M/3.2 | 3,12 | | 2,240 | 3,200 | 4,800 | 6,400 | 8,000 | 9,600 | 11,200 | 12,800 | 14,400 | 16,000 | 17,600 | 19,200 | |
| XV 1M/3.8 | 3,64 | | 2,660 | 3,800 | 5,700 | 7,600 | 9,500 | 11,400 | 13,300 | 15,200 | 17,100 | 19,000 | 20,900 | 22,800 | |
| XV 1M/4.3 | 4,16 | | 3,010 | 4,300 | 6,450 | 8,600 | 10,750 | 12,900 | 15,050 | 17,200 | 19,350 | 21,500 | 23,650 | 25,800 | |
| XV 1M/4.9 | 4,94 | | 3,430 | 4,900 | 7,350 | 9,800 | 12,250 | 14,700 | 17,150 | 19,600 | 22,050 | 24,500 | 26,950 | 29,400 | |
| XV 1M/5.9 | 5,85 | | 4,130 | 5,900 | 8,850 | 11,800 | 14,750 | 17,700 | 20,650 | 23,600 | 26,550 | 29,500 | | | |
| XV 1M/6.5 | 6,5 | | 4,550 | 6,500 | 9,750 | 13,000 | 16,250 | 19,500 | 22,750 | 26,000 | 29,250 | 32,500 | | | |
| XV 1M/7.8 | 7,54 | | 5,460 | 7,800 | 11,700 | 15,600 | 19,500 | 23,400 | 27,300 | 31,200 | 35,100 | 39,000 | | | |
| XV 1P/9.8 | 9,88 | | 6,860 | 9,800 | 14,700 | 19,600 | 24,500 | 29,400 | 34,300 | 39,200 | | | | | |

| TYPE | cm3/rev | | rpm | | | | | | | |
|----------|---------|-----------------|--------|--------|--------|--------|--------|--------|--------|-----------------|
| | | | 700 | 1000 | 1500 | 2000 | 2500 | 3000 | | 3500 |
| XV 2M/4 | 4,2 | Flow rate l/min | 2,800 | 4,000 | 6,000 | 8,000 | 10,000 | 12,000 | 14,000 | Flow rate l/min |
| XV 2M/6 | 6 | | 4,200 | 6,000 | 9,000 | 12,000 | 15,000 | 18,000 | 21,000 | |
| XV 2M/9 | 8,4 | | 6,300 | 9,000 | 13,500 | 18,000 | 22,500 | 27,000 | 31,500 | |
| XV 2M/11 | 10,8 | | 7,700 | 11,000 | 16,500 | 22,000 | 27,500 | 33,000 | 38,500 | |
| XV 2M/14 | 14,4 | | 9,800 | 14,000 | 21,000 | 28,000 | 35,000 | 42,000 | 29,000 | |
| XV 2M/17 | 16,8 | | 11,900 | 17,000 | 25,500 | 34,000 | 42,500 | 51,000 | 59,500 | |
| XV 2M/19 | 19,2 | | 13,300 | 19,000 | 28,500 | 38,000 | 47,500 | 57,000 | | |
| XV 2M/22 | 22,8 | | 15,400 | 22,000 | 33,000 | 44,000 | 55,000 | 66,000 | | |
| XV 2M/26 | 26,2 | | 18,200 | 26,000 | 39,000 | 52,000 | 65,000 | 78,000 | | |
| XV 2M/30 | 30 | | 21,000 | 30,000 | 45,000 | 60,000 | 75,000 | | | |
| XV 2M/34 | 34,2 | | 23,800 | 34,000 | 51,000 | 68,000 | 85,000 | | | |
| XV 2M/40 | 39,6 | | 28,000 | 40,000 | 60,000 | 80,000 | | | | |

| TYPE | cm3/rev | | rpm | | | | | | | |
|----------|---------|-----------------|-------|-------|--------|--------|--------|--------|-------|-----------------|
| | | | 700 | 1000 | 1500 | 2000 | 2300 | 2500 | | 3000 |
| XV 3M/15 | 14,89 | Flow rate l/min | 9,90 | 14,15 | 21,22 | 28,29 | 32,54 | 35,37 | 42,44 | Flow rate l/min |
| XV 3M/18 | 17,37 | | 11,55 | 16,51 | 24,76 | 33,01 | 37,96 | 41,26 | 49,52 | |
| XV 3M/21 | 21,10 | | 14,03 | 20,04 | 30,06 | 40,08 | 46,10 | 50,11 | 60,13 | |
| XV 3M/27 | 26,97 | | 17,94 | 25,62 | 38,43 | 51,24 | 58,93 | 64,05 | 76,86 | |
| XV 3M/32 | 32,27 | | 21,46 | 30,65 | 45,98 | 61,31 | 70,50 | 76,63 | 91,96 | |
| XV 3M/38 | 38,47 | | 25,58 | 36,55 | 54,82 | 73,09 | 84,06 | 91,37 | | |
| XV 3M/43 | 43,44 | | 28,88 | 41,26 | 61,89 | 82,53 | 94,91 | 103,16 | | |
| XV 3M/47 | 47,16 | | 31,36 | 44,80 | 67,20 | 89,60 | 103,04 | 112,00 | | |
| XV 3M/51 | 50,88 | | 33,84 | 48,34 | 72,51 | 96,67 | 111,17 | | | |
| XV 3M/54 | 54,60 | | 36,31 | 51,87 | 77,81 | 103,75 | 119,31 | | | |
| XV 3M/61 | 60,81 | | 40,44 | 57,77 | 86,65 | 115,54 | 132,87 | | | |
| XV 3M/64 | 64,53 | | 42,91 | 61,31 | 91,96 | 122,61 | 141,00 | | | |
| XV 3M/70 | 70,74 | | 47,04 | 67,20 | 100,80 | 134,40 | 154,56 | | | |
| XV 3M/74 | 74,46 | | 49,52 | 70,74 | 106,11 | 141,47 | 162,70 | | | |
| XV 3M/90 | 86,87 | | 57,77 | 82,53 | 123,79 | 165,05 | 189,81 | | | |

TORQUES ALLOWED ON SHAFT:

| FORMULA FOR EVALUATING SHAFT | SHAFT [IDENTIFIER] - CODE - DESCRIPTION | T.2 [Nm] |
|--|--|----------|
| $T.2 \leq \frac{v_i \times \Delta p \times \eta m}{20 \times \pi}$ <p>T.2 = max. torque allowed by shaft [Nm]</p> | XV-0M [A] - CI001 - Cilindrico ø 7 - M 7x1 - linguetta sp.2 | 2 |
| | [B] - CF001 - Codolo fresato ø 7 - sp. 5 | 9,2 |
| | [F] - CF005 - Codolo fresato ø 7 - sp.4,5 L = 9 | 8 |
| | XV-1M [A] - CI001 - Parallel ø12 - M10x1 - key thk. 3 | 25,8 |
| | [B] - CI002 - Parallel ø12.7 - key thk. 3.2 (SAE) | 32,8 |
| | [C] - CF001 - Milled shank ø10 - thk.5 ("BH" Standard German) | 13,8 |
| | [D] - CF002 - Milled shank ø10 - thk.5 | 13,8 |
| | [E] - CF003 - Milled shank ø11 - thk.6.63 (SAE) | 25,8 |
| | [F] - CO001 - Tapered 1:8 - ø10 - M7x1 - key thk.2.4 | 43 |
| | [G] - CO002 - Tapered 1:8 - ø14 - M10x1 - key thk.3 | 119,8 |
| | [I] - CO004 - Tapered 1:8 - ø12.7 - 5/16" 24UNF-2A - key thk.3.2 (SAE) | 90,4 |
| | [J] - SCF04 - Splined ø11.7 - z=6, H=17.5, m=1.6, DIN 5482 12x9 | 22,6 |
| | [K] - SCF05 - Splined ø12.344, z=9, H=19, SAE J498 9T 20/40DB | 32,2 |
| | [L] - SCF02 - Splined ø11.9, z=15, H=17.5, m=0.75 | 42,8 |
| | [O] - CO002+HK - Tapered 1:8 - ø14 - M10x1, HK 14-12, key thk.3 | 119,8 |
| | [P] - CI001+HK - Parallel ø12 - M10x1 with bearing HK 14-12 - key thk.3 | 25,8 |
| | [Q] - SCF01 - Splined ø11.9, z=15, H=9, m=0.75 | 42,8 |
| | [R] - SCF03 - Splined ø11.9, z=15, H=9, m=0.75 | 42,8 |
| | XV-2M [A] - CI001 - Parallel ø15 - M6x1 - key thk.4 | 44.1 |
| | [B] - CI002 - Parallel ø15.875 - 1/4"28-UNF key thk.4 (SAE A) | 67.5 |
| | [C] - CF001 - Miled shank ø15 - thk.8 ("BH" Standard German) | 60.5 |
| | [E] - CO001 - Tapered 1:8 - ø17,4 - M12x1,5 - key thk.4 | 233.2 |
| | [F] - CO002 - Tapered 1:5 - ø17,4 - M12x1,5 - key thk.3 | 233.2 |
| | [G] - SCF02 - Splined ø16,5 - z=9, H=13, m=1.6 DIN 5482 17x14 | 86.1 |
| | [H] - SCF03 - Splined ø16.5 - z=9, H=18,8, m=1,6 DIN 5482 17x14 | 86.1 |
| | [I] - SCF04 - Splined ø15.456 z=9, H=22.5, SAE J498 9T 16/32DP | 67.1 |
| | [K] - SCF05 - Splined ø16.5 z=9 H=8,1 m=1.6 DIN 5482 17x14 | 86.2 |
| [L] - SCF01 - Splined ø16.5 z=9 H=9,2 m=1.6 DIN 5482 17x14 | 86.2 | |
| [M] - CO001 - Tapered 1:8 - ø17,4 - M12x1,5 - key thk.3,2 | 233.2 | |
| XV-3M [A] - CO001 - Tapered 1:8 - ø22 - M14x1.5 - key thk.4 | 482 | |
| [B] - CI001 - Parallel ø20 - M8 - key thk.5 | 181 | |
| [C] - SCF03 - Splined ø21.5, z=13, H=25, m=1,6 | 223 | |
| [H] - CI004 - Parallel ø22.225- 1/4"28-UNF key thk..6.35 (SAE B) | 180 | |
| [I] - SCF04 - Splined ø21.8059, z=13, H=25, SAE J498 9T 16/32DP | 264 | |

NOTES:

For assemblies with a coupling, you should choose one as balanced as possible in order to reduce the vibrations and dynamic stresses to which the motor shaft may be subject.

Always make sure that the torque is less than or equal to the admissible torque of the shaft. Do not apply a direct axial or radial load on the motor shaft; if necessary, use suitable supports. Always use well-filtered oils containing no water or other emulsifying substance.

Never run the motor with oil and air solutions.

For motor with outlets on the flange, it is recommended not to exceed a flow rate of

| | |
|-----------|-------|
| 4 l/min | XV-0M |
| 20 l/min. | XV-1M |
| 35 l/min | XV-2M |

Useful calculation formulas

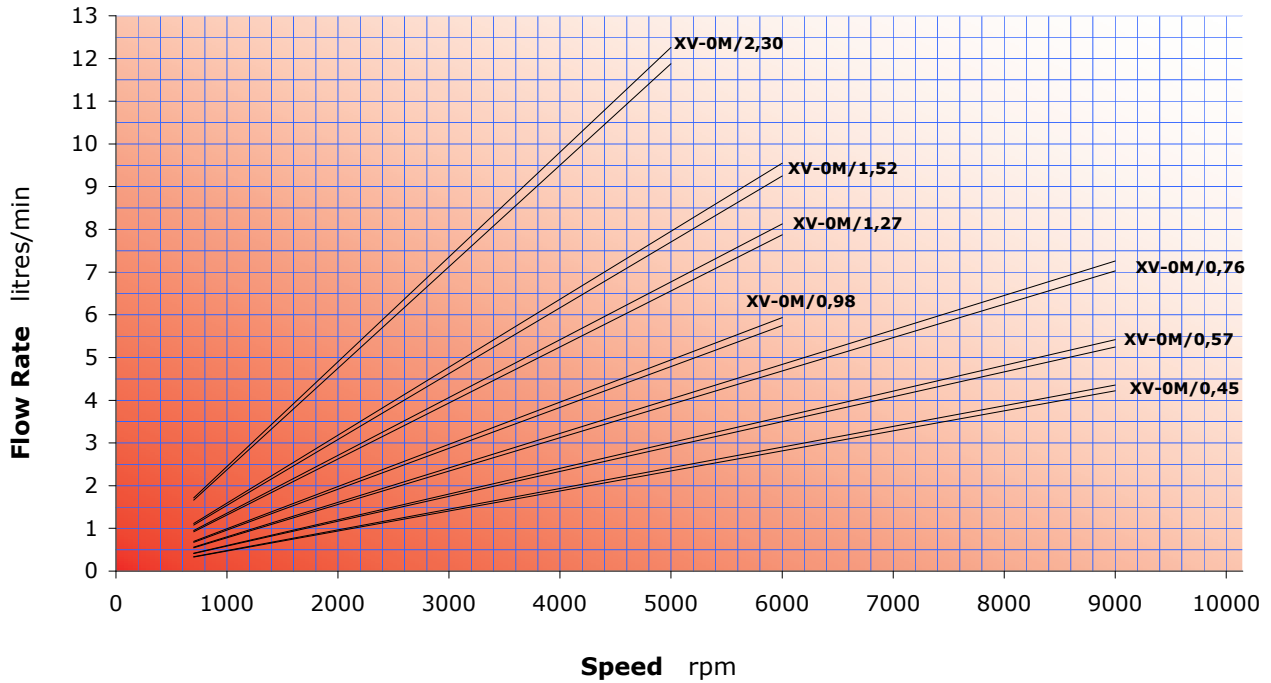
| SYMBOL, UNIT OF MEASUREMENT, DESCRIPTION | | |
|--|-----------------------|---|
| qv | l/min | Flow rate |
| vi | cm ³ /rev. | Displacement (volume of oil displaced per complete revolution of the shaft) |
| n | rpm | Shaft rotation speed |
| p1 | bar | inlet pressure |
| p2 | bar | outlet pressure |
| Δp | bar | Δp=p2 - p1 difference between outlet (OUT) and inlet (IN) pressure |
| Ph | kW | Hydraulic power delivered |
| Pm | kW | Mechanical power absorbed |
| T | Nm | Torque absorbed by shaft |
| ηv | - | 0.91 – 0.96 volumetric efficiency (volumetric ratio between operation under load and loadless operation) |
| ηm | - | 0.85 – 0.90 mechanical efficiency |
| ηt | - | ηt = ηv x ηm total efficiency |

| Basic Formulas | Derived Formulas | |
|---|---|---|
| $qv = \frac{vi \times n}{1000} \times \eta v$ | $vi = \frac{qv \times 1000}{n \times \eta v}$ | $n = \frac{qv \times 1000}{vi \times \eta v}$ |
| $T = \frac{vi \times \Delta p \times \eta m}{20 \times \pi}$ | $vi = \frac{T \times 20 \times \pi}{\Delta p \times \eta m}$ | $\Delta p = \frac{T \times 20 \times \pi}{vi \times \eta m}$ |
| $Ph = \frac{qv \times \Delta p}{600}$ | $qv = \frac{Ph \times 600}{\Delta p}$ | $\Delta p = \frac{Ph \times 600}{qv}$ |
| $Pm = \frac{vi \times \Delta p \times n \times \eta m}{600000}$ | $vi = \frac{Pm \times 600000}{\Delta p \times n \times \eta m}$ | $\Delta p = \frac{600000 \times \eta m}{vi \times n \times \eta m}$ |

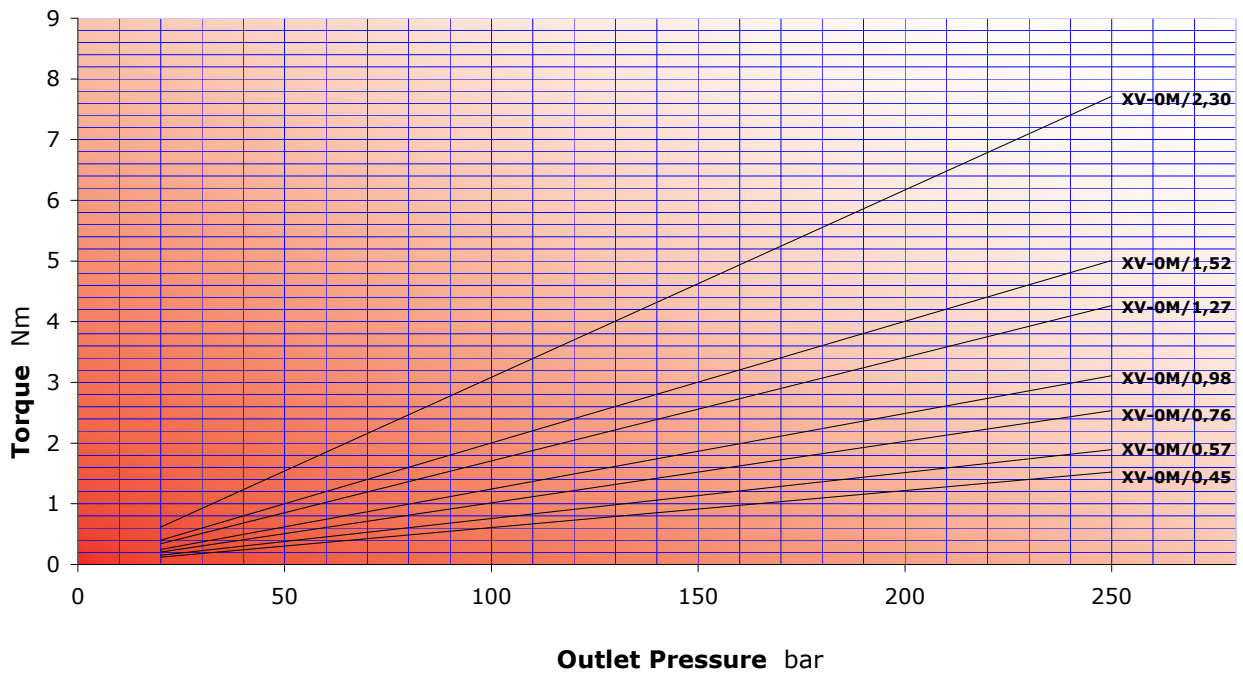
Constructive features

| PART | MATERIAL | MECHANICAL FEATURES |
|---------------------------|---|---|
| MOTOR BODY | Extruded alloy Series 7000, heat treated and anodised | Rp = 345 N/mm ² (Yield strength) Rm = 382 N/mm ² (Breaking strength) |
| FLANGE AND COVER | Die-cast aluminium alloy with excellent mechanical features, heat treated and anodised | Rp = 310÷350 N/mm ² (Yield strength) Rm = 350÷400 N/mm ² (Breaking strength) |
| GEAR BUSH BEARINGS | Special heat-treated tin alloy with excellent mechanical features and high anti-friction capacity. Self-lubricating bushes DU | Rp = 350 N/mm ² (Yield strength) Rm = 390 N/mm ² (Breaking strength) |
| GEARS | Steel UNI 7846 | Rs = 980 N/mm ² (Yield strength) Rm = 1270÷1570 N/mm ² (Breaking strength) |
| SEALS | A 727 Standard Acrylonitrile F 975 Viton FKM | 70 Shore, thermal resistance 120°C 80 Shore, thermal resistance 200°C |
| BACK-UP RINGS | Virgin PTFE Tecnil Q3 | |

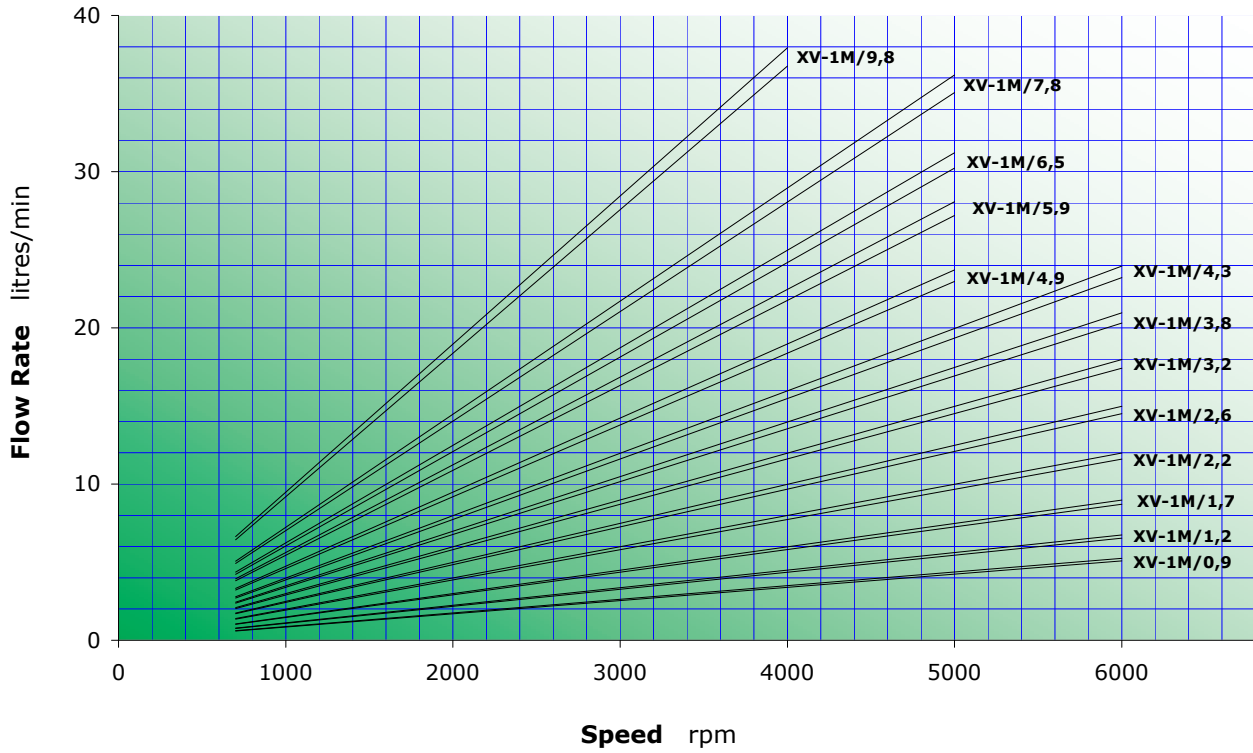
XV-0M CHARACTERISTIC FLOW RATE CURVES



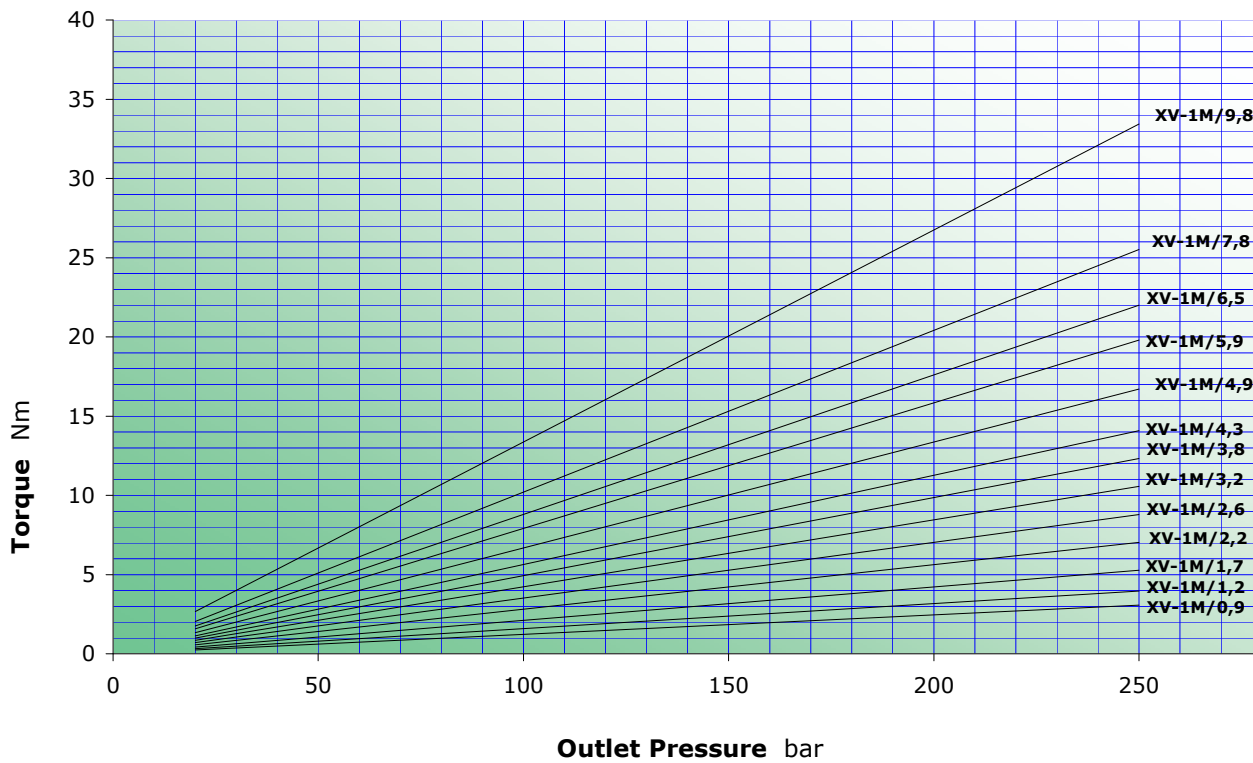
XV-0M MOTOR TORQUE



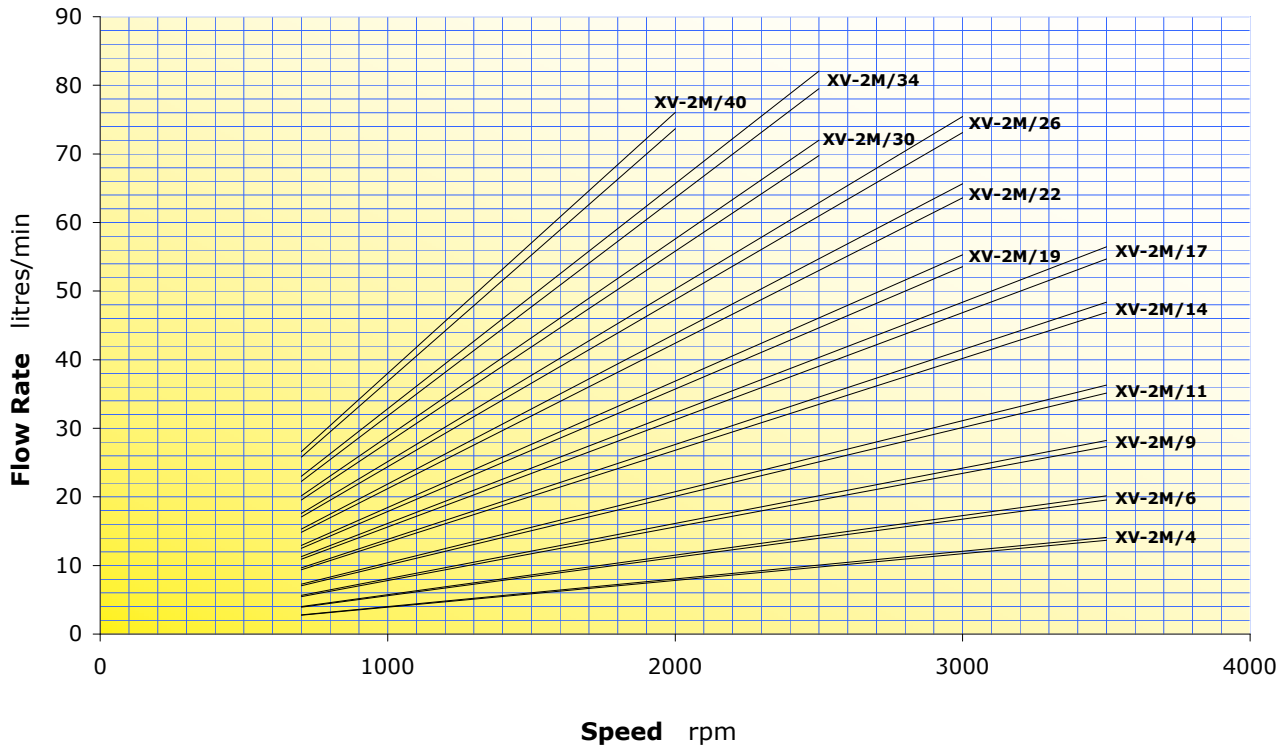
XV-1M CHARACTERISTIC FLOW RATE CURVES



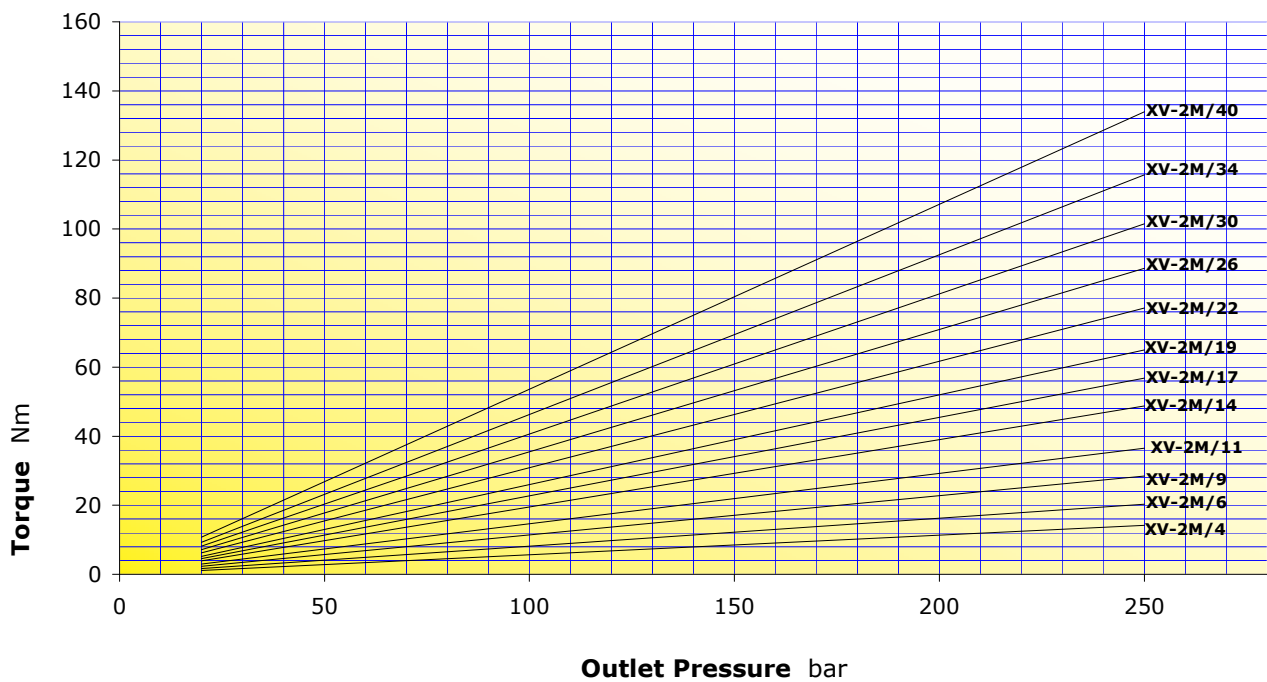
XV-1M MOTOR TORQUE



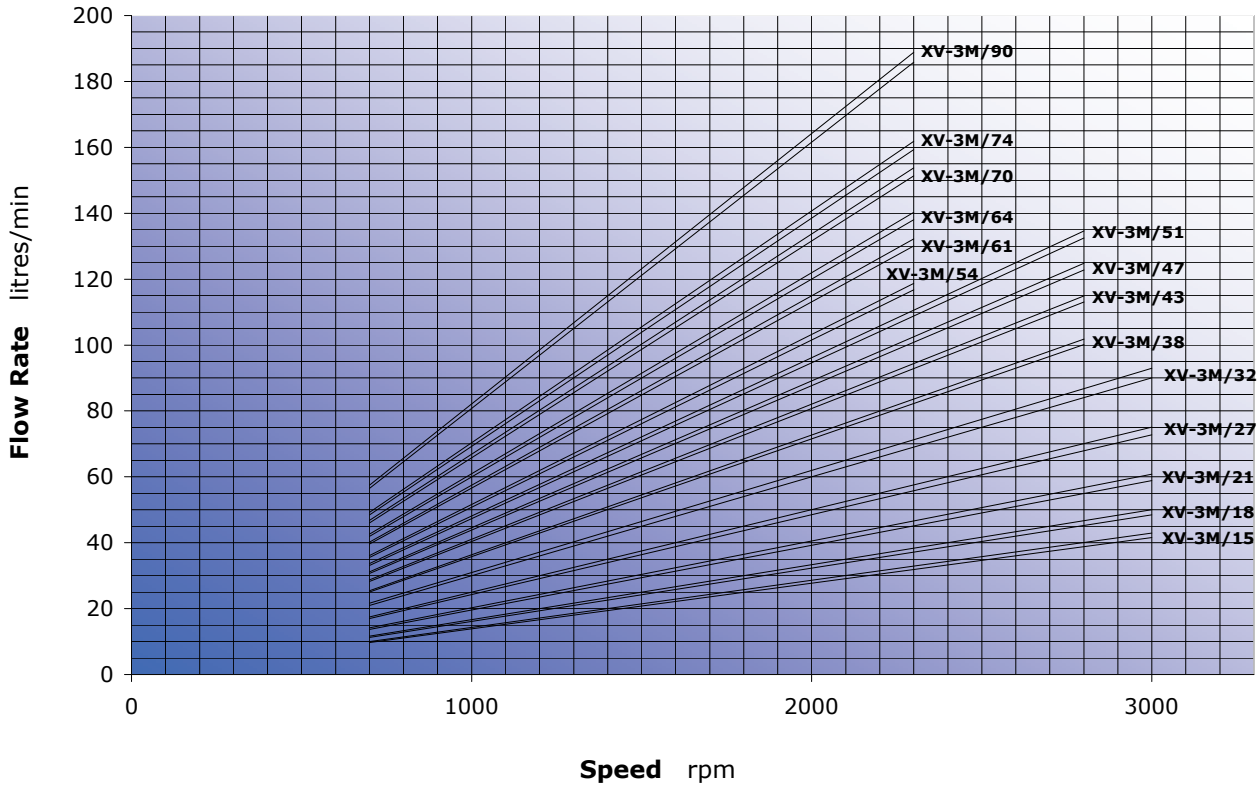
XV-2M CHARACTERISTIC FLOW RATE CURVES



XV-2M MOTOR TORQUE



XV-3M CHARACTERISTIC FLOW RATE CURVES



XV-3M MOTOR TORQUE

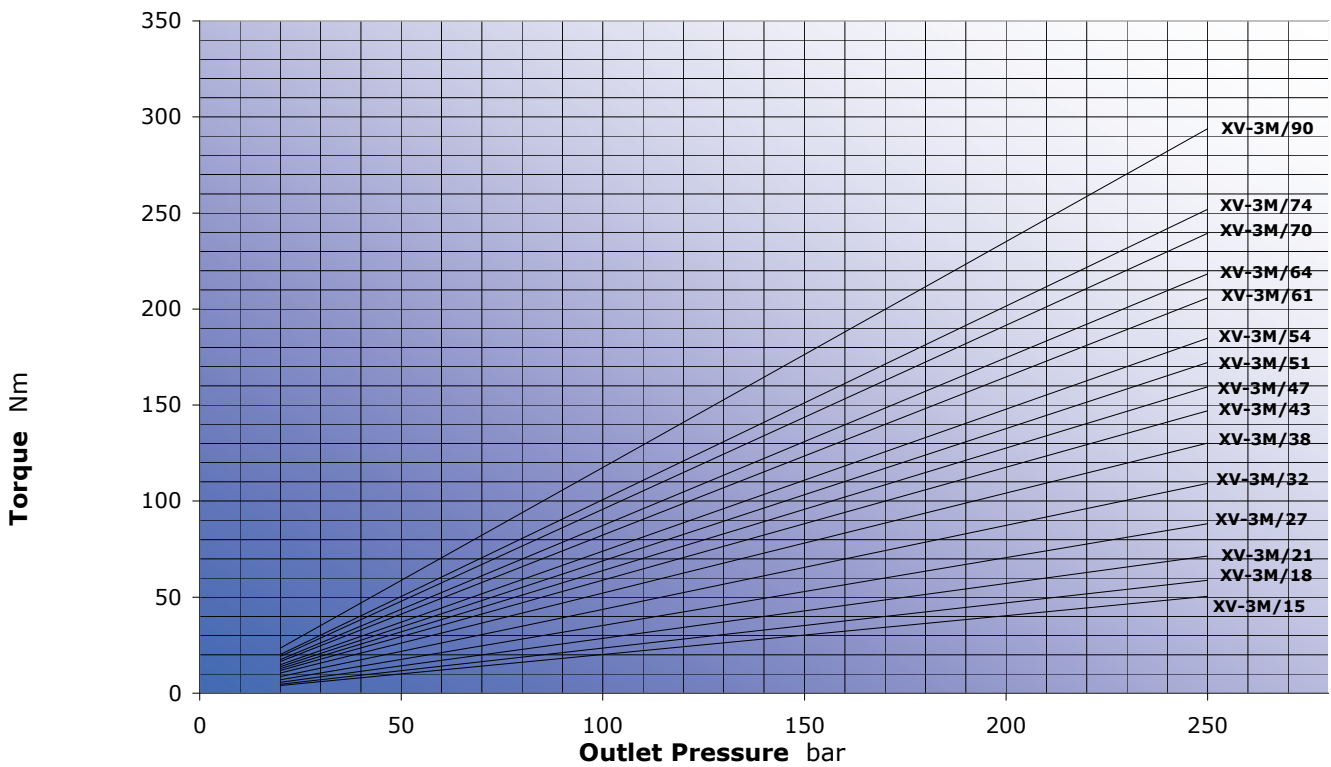


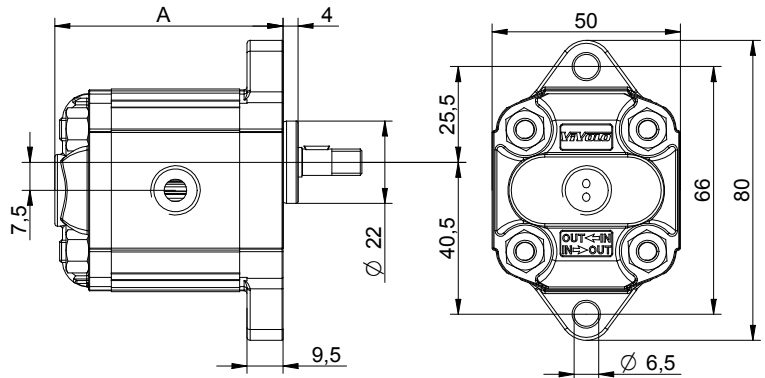
Table of variations

These two pages provide an overview of all the possible variations for customising a motor with a standard $\varnothing 22$ flange.

By filling in the missing data you can obtain the complete code of the product to be customised.



| | | |
|--------------|-----------|------------------|
| Series | X | series XV |
| Group | 0 | group 0 |
| Category | M | reversible motor |
| Displacement | | |
| Flange | | |
| Shaft | | |
| Body | IN OUT | |
| Cover | | |



Standard $\varnothing 22$ FLANGE

| Code |
|------|
| 01 |
| 04 |
| 05 |

Shaft

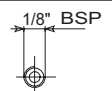
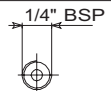
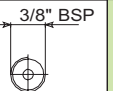
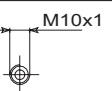
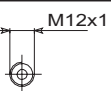
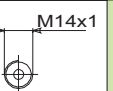
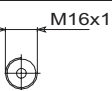
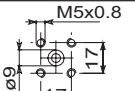
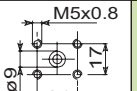
| Code | Code |
|----------------------|----------------------|
| CI001 - Parallel | CF001 - Milled shank |
| CF005 - Milled shank | CO001 - Tapered |

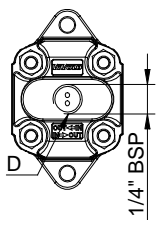
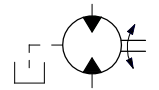

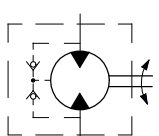
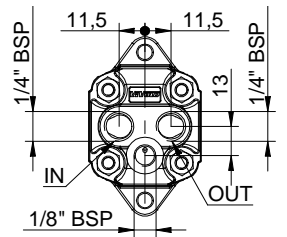
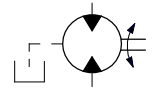
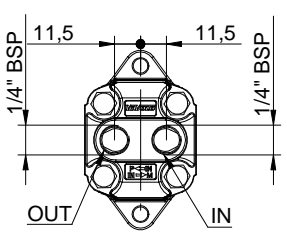
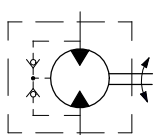

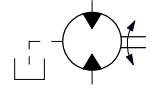
Table of variations

| Displacement | | |
|--------------|------|------|
| TYPE | CODE | A |
| | | mm |
| XV-0M/0.45 | 04 | 58,0 |
| XV-0M/0.57 | 05 | 59,0 |
| XV-0M/0.76 | 06 | 60,5 |
| XV-0M/0.98 | 07 | 62,0 |
| XV-0M/1.27 | 09 | 64,5 |
| XV-0M/1.52 | 11 | 66,5 |
| XV-0M/2.30 | 13 | 72,5 |

| Standard bodies | | |
|-----------------|------------------|-------|
| Displacement | Standard threads | |
| cm3/rev | | |
| 0,17 | B - B | Z - Z |
| 0,25 | B - B | Z - Z |
| 0,45 | B - B | Z - Z |
| 0,57 | B - B | Z - Z |
| 0,76 | B - B | Z - Z |
| 0,98 | B - B | Z - Z |
| 1,27 | B - B | Z - Z |
| 1,52 | B - B | Z - Z |
| 2,30 | B - B | Z - Z |

Table showing standard flange and thread combinations available in stock

| Body (threads/flanges) | | | | | |
|---|---|---|---|---|---|
|  | A |  | B |  | C |
|  | D |  | E |  | F |
|  | G |  | H |  | I |
| Closed body | Z | | | | |

| Cover | | Code |
|--|---|------|
|  |  | E |
| External drainage | | |
|  |  | F |
| Internal drainage | | |
|  |  | K |
| IN + OUT + external drainage | | |
|  |  | L |
| IN + OUT + internal drainage | | |
|  |  | P |
| Flange drainage | | |

reversible motor - series XV

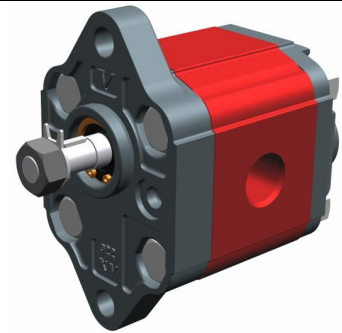
XV-0M

STANDARD MOTOR W/ BODY INLET AND OUTLET
 Ø22 FLANGE - PARALLEL SHAFT



X 0 M 06 01 A B B E

| | | |
|--------------|-----|---|
| Series | X | series XV |
| Group | 0 | group 0 |
| Category | M | reversible motor |
| Displacement | 06 | 0.76 |
| Flange | 01 | Ø22 reversible rotation |
| Shaft | A | CI001 - Parallel ø7 - M7x1 - key thk. 2 |
| Body | IN | inlet - 1/4" GAS |
| | OUT | outlet - 1/4" GAS |
| Cover | E | reversible w/external drainage |

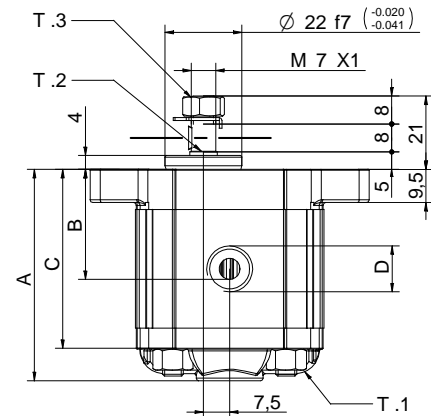
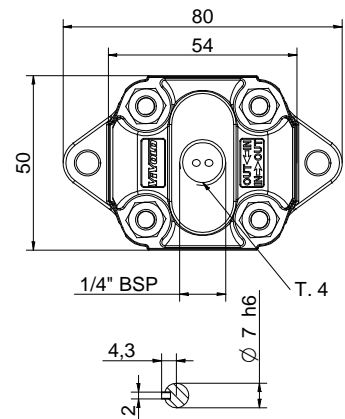


Reference **XM001**

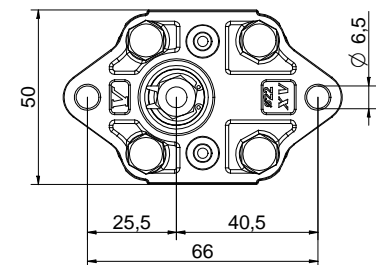
| Technical data table | | | | | | |
|----------------------|-------------------------|---------------|--------|---------------------|---------------------|-------------------|
| TYPE | Displacement cm3/rev | Max. Pressure | | CODE | | |
| | | P1 bar | P3 bar | External drainage | | Internal drainage |
| XV-0M/0.45 | 0,45 | 220 | 280 | X 0 M 04 01 A B B E | X 0 M 04 01 A B B F | |
| XV-0M/0.57 | 0,56 | 220 | 280 | X 0 M 05 01 A B B E | X 0 M 05 01 A B B F | |
| XV-0M/0.76 | 0,75 | 220 | 280 | X 0 M 06 01 A B B E | X 0 M 06 01 A B B F | |
| XV-0M/0.98 | 0,92 | 220 | 280 | X 0 M 07 01 A B B E | X 0 M 07 01 A B B F | |
| XV-0M/1.27 | 1,26 | 220 | 280 | X 0 M 09 01 A B B E | X 0 M 09 01 A B B F | |
| XV-0M/1.52 | 1,48 | 220 | 280 | X 0 M 11 01 A B B E | X 0 M 11 01 A B B F | |
| XV-0M/2.30 | 2,28 | 190 | 210 | X 0 M 13 01 A B B E | X 0 M 13 01 A B B F | |

P1) Max. working pressure - P3) Max. peak pressure

For heavy-duty applications, it is recommended to check the admissible torque of the shaft



| Dimensions table | | | | | | |
|------------------|--------------|------|------|------|-----------|-----------|
| TYPE | Weight kg | A | B | C | D | D |
| | | mm | mm | mm | IN | OUT |
| XV-0M/0.45 | 0,420 | 58,0 | 27,3 | 49,0 | 1/4" BSPP | 1/4" BSPP |
| XV-0M/0.57 | 0,430 | 59,0 | 27,8 | 50,0 | 1/4" BSPP | 1/4" BSPP |
| XV-0M/0.76 | 0,440 | 60,5 | 28,5 | 51,5 | 1/4" BSPP | 1/4" BSPP |
| XV-0M/0.98 | 0,460 | 62,0 | 29,3 | 53,0 | 1/4" BSPP | 1/4" BSPP |
| XV-0M/1.27 | 0,480 | 64,5 | 30,5 | 55,5 | 1/4" BSPP | 1/4" BSPP |
| XV-0M/1.52 | 0,500 | 66,5 | 31,5 | 57,5 | 1/4" BSPP | 1/4" BSPP |
| XV-0M/2.30 | 0,560 | 72,5 | 34,5 | 63,5 | 1/4" BSPP | 1/4" BSPP |



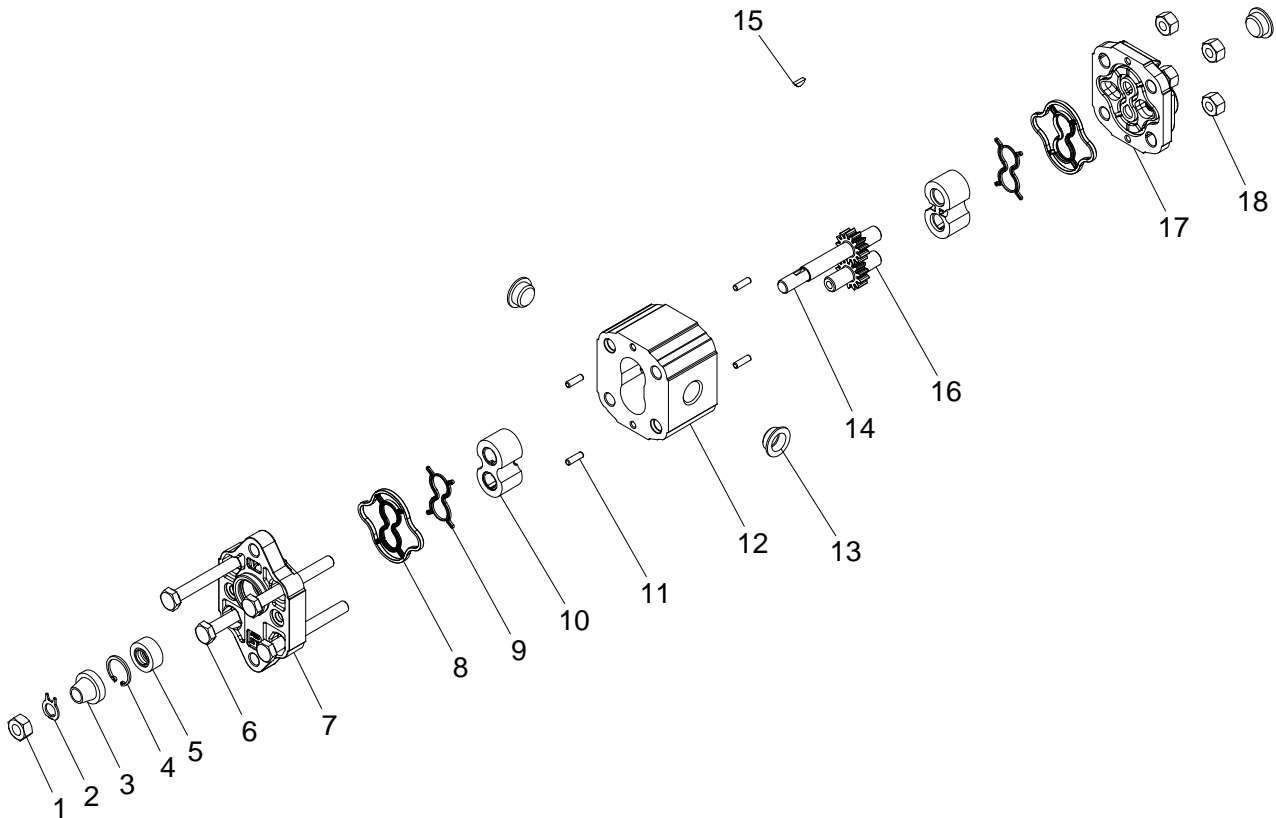
01/03/04 XOR0601ABBE.dft

T.1 = 11.7÷13.7 [Nm] - screw tightening torque M6

T.3 = 11.5 [Nm] - torque wrench setting 11

T.2 = 2.1 [Nm] - admissible shaft torque (N.B. When choosing a shaft, always check the admissible torque).

Example of ordering code:

X0M0601ABBE XV0M/0.76 - Ø22 /R - CI001 - 1/4" BSP - 1/4" BSP - Dren. est.


| Basic list | | | | |
|------------|--|------------|--------|----------|
| Pos. | Item description | Item | Size | Quantity |
| 1 | WHITE GALVANISED NUT M7x1 H=5.5 CH=11 UNI 5588 | 540.0035.A | 0 | 1 |
| 2 | TAB WASHER ø7.25xø11 | 100.0175.A | 0 | 1 |
| 3 | KEY PROTECTION XV0 - XV1 | 590.0015.A | 0 | 1 |
| 4 | ø16 INTERNAL SNAP RING DIN 472 | 560.0005.A | 0 | 1 |
| 5 | OIL SEAL 8 x 16 x 6 TCV (BAB SL) | 690.0075.A | 0 | 1 |
| 6 | WHITE GALVANISED SCREW TCCE M6x50 UNI 5931 8.8 | 521.0006.A | L050 | 4 |
| 7 | XV0 ø22 FLANGE | 050.0176.A | 0 | 1 |
| 8 | INJECTION-MOLDED SEAL XV0 (NBR 70 SH) | 050.0180.A | 0 | 2 |
| 9 | XV0 BACK-UP ELEMENT FOR BALANCING | 050.0174.A | 0 | 2 |
| 10 | XV0 BUSH H=14 | 050.0144.A | 0 | 2 |
| 11 | PIN ø3x9,8 | 570.0005.A | 0 | 4 |
| 12 | BODY W/THREAD 1/4" - 1/4" BSP - cc=0,76 | 050.0029.W | H34 | 1 |
| 13 | PLASTIC PLUG ø12 | 580.0001.A | D12 | 3 |
| 14 | CI001 - PARALLEL DRIVING GEAR | 050.0020.A | CC0,76 | 1 |
| 15 | WOODRUFF KEY ø7x2 H=2.6 | 050.0124.A | 0 | 1 |
| 16 | COND2 - PERFORATED DRIVEN GEAR | 050.0019.A | CC0,76 | 1 |
| 17 | NEUTRAL XV0 COVER W/DRAINAGE 1/4" BSP | 050.0178.X | F0ZZB | 1 |
| 18 | WHITE GALVANISED NUT M6 H=5 UNI 5588 | 540.0025.A | 0 | 4 |

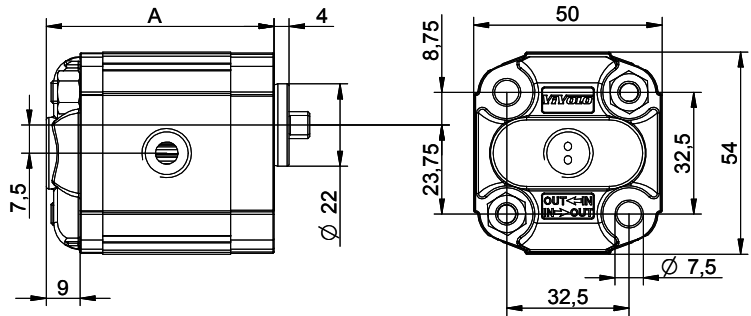
Table of variations

These two pages provide an overview of all the possible variations for customising a motor with a ø22 BH body-Shaped flange.

By filling in the missing data you can obtain the complete code of the product to be customised.



| | | |
|--------------|-----------|------------------|
| Series | X | series XV |
| Group | 0 | group 0 |
| Category | M | reversible motor |
| Displacement | | |
| Flange | | |
| Shaft | | |
| Body | IN OUT | |
| Cover | | |



ø22 "BH" Body-Shaped FLANGE

Shaft

| Code |
|------|
| 07 |
| 10 |
| 11 |

| Code | Code |
|----------------------|----------------------|
| CI001 - Parallel | CF001 - Milled shank |
| CF005 - Milled shank | CO001 - Tapered |

Table of variations

| Displacement | | |
|--------------|------|------|
| TYPE | CODE | A |
| | | mm |
| XV-0M/0.45 | 04 | 58,0 |
| XV-0M/0.57 | 05 | 59,0 |
| XV-0M/0.76 | 06 | 60,5 |
| XV-0M/0.98 | 07 | 62,0 |
| XV-0M/1.27 | 09 | 64,5 |
| XV-0M/1.52 | 11 | 66,5 |
| XV-0M/2.30 | 13 | 72,5 |

| Standard bodies | | |
|-----------------|------------------|-------|
| Displacement | Standard threads | |
| cm3/rev | | |
| 0,17 | B - B | Z - Z |
| 0,25 | B - B | Z - Z |
| 0,45 | B - B | Z - Z |
| 0,57 | B - B | Z - Z |
| 0,76 | B - B | Z - Z |
| 0,98 | B - B | Z - Z |
| 1,27 | B - B | Z - Z |
| 1,52 | B - B | Z - Z |
| 2,30 | B - B | Z - Z |

Table showing standard flange and thread combinations available in stock

| Body (threads/flanges) | | | |
|------------------------|---|--|---|
| | A | | B |
| | C | | D |
| | E | | F |
| | G | | H |
| | I | | |
| Closed body | Z | | |

| Cover | | Code |
|-------|--|------|
| | | E |
| | | F |
| | | K |
| | | L |
| | | P |

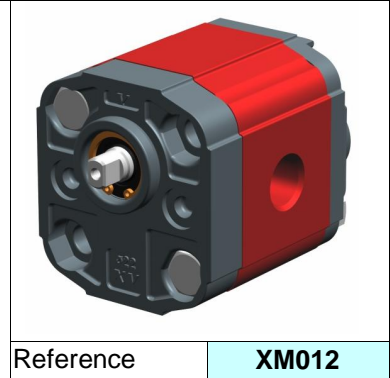
reversible motor - series XV

XV-0M

BH TYPE MOTOR W/ BODY INLET AND OUTLET
 ø22 BODY-SHAPED FLANGE - MILLED SHANK



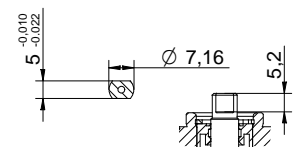
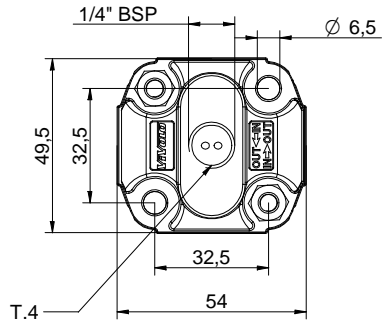
| | | | | | | | | |
|--------------|----------|---------------------------------|-------------------|-----------|----------|----------|----------|----------|
| X | 0 | M | 06 | 07 | B | B | B | E |
| Series | X | series XV | | | | | | |
| Group | 0 | group 0 | | | | | | |
| Category | M | reversible motor | | | | | | |
| Displacement | 06 | 0.76 | | | | | | |
| Flange | 07 | Ø22 BH reversible rotation | | | | | | |
| Shaft | B | CF001 - Milled shank ø7 - thk.5 | | | | | | |
| Body | IN | B | inlet - 1/4" GAS | | | | | |
| | OUT | B | outlet - 1/4" GAS | | | | | |
| Cover | E | reversible w/external drainage | | | | | | |



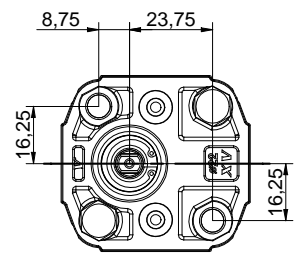
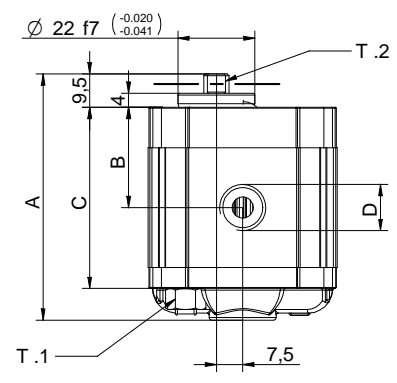
Reference **XM012**

| Technical data table | | | | | | |
|----------------------|-------------------------|---------------|--------|-------------------|---|-------------------------------------|
| TYPE | Displacement cm3/rev | Max. Pressure | | CODE | | |
| | | P1 bar | P3 bar | External drainage | | Internal drainage |
| XV-0M/0.45 | 0,45 | 220 | 280 | X | 0 | M 04 07 B B B E X 0 M 04 07 B B B F |
| XV-0M/0.57 | 0,56 | 220 | 280 | X | 0 | M 05 07 B B B E X 0 M 05 07 B B B F |
| XV-0M/0.76 | 0,75 | 220 | 280 | X | 0 | M 06 07 B B B E X 0 M 06 07 B B B F |
| XV-0M/0.98 | 0,92 | 220 | 280 | X | 0 | M 07 07 B B B E X 0 M 07 07 B B B F |
| XV-0M/1.27 | 1,26 | 220 | 280 | X | 0 | M 09 07 B B B E X 0 M 09 07 B B B F |
| XV-0M/1.52 | 1,48 | 220 | 280 | X | 0 | M 11 07 B B B E X 0 M 11 07 B B B F |
| XV-0M/2.30 | 2,28 | 190 | 210 | X | 0 | M 13 07 B B B E X 0 M 13 07 B B B F |

P1) Max. working pressure - P3) Max. peak pressure
 For heavy-duty applications, it is recommended to check the admissible torque of the shaft



| Dimensions table | | | | | | |
|------------------|--------------|------|------|------|-----------|-----------|
| TYPE | Weight kg | A | B | C | D | D |
| | | mm | mm | mm | IN | OUT |
| XV-0M/0.45 | 0,420 | 58,0 | 27,3 | 49,0 | 1/4" BSPP | 1/4" BSPP |
| XV-0M/0.57 | 0,430 | 59,0 | 27,8 | 50,0 | 1/4" BSPP | 1/4" BSPP |
| XV-0M/0.76 | 0,440 | 60,5 | 28,5 | 51,5 | 1/4" BSPP | 1/4" BSPP |
| XV-0M/0.98 | 0,460 | 62,0 | 29,3 | 53,0 | 1/4" BSPP | 1/4" BSPP |
| XV-0M/1.27 | 0,480 | 64,5 | 30,5 | 55,5 | 1/4" BSPP | 1/4" BSPP |
| XV-0M/1.52 | 0,500 | 66,5 | 31,5 | 57,5 | 1/4" BSPP | 1/4" BSPP |
| XV-0M/2.30 | 0,560 | 72,5 | 34,5 | 63,5 | 1/4" BSPP | 1/4" BSPP |

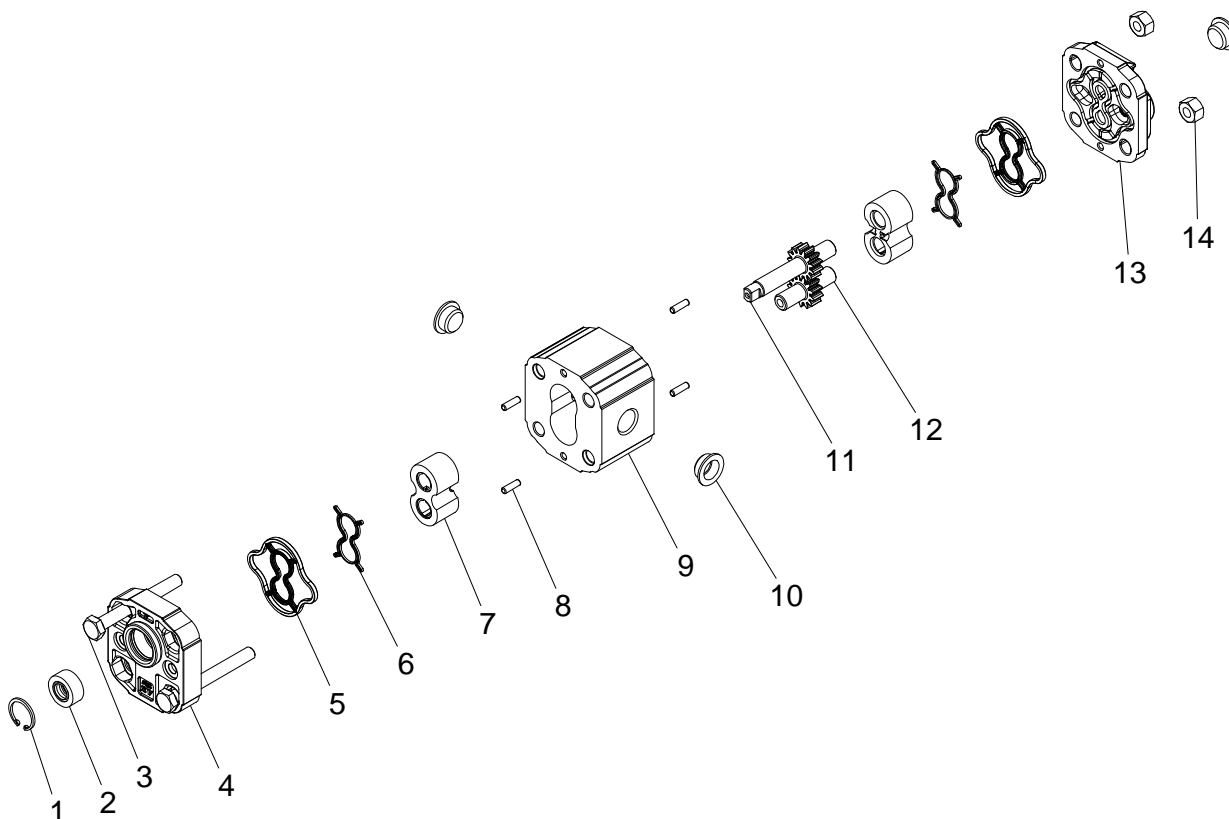


01/03/04 XOR060788BE.dft

T.1 = 11.7÷13.7 [Nm] - screw tightening torque M6
 T.2 = 9.2 [Nm] - admissible shaft torque (N.B. When choosing a shaft, always check the admissible torque).

| | |
|-----------|--------------|
| Reference | XM012 |
|-----------|--------------|

Example of ordering code:

X0M0607BBBE XV0M/0.76 - Ø22 BH/R - CF001 - 1/4" BSP - 1/4" BSP - Dren. est.


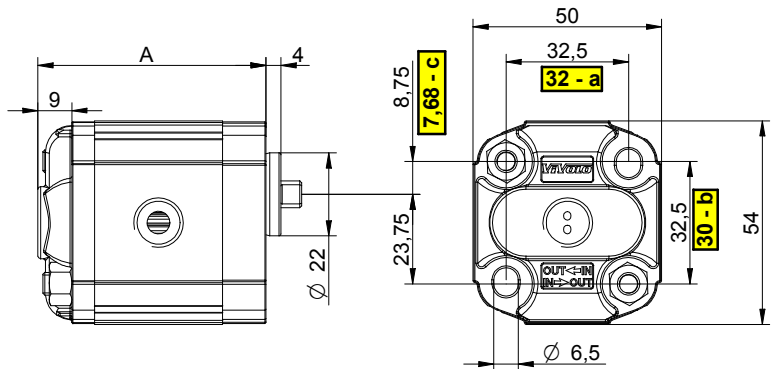
| Basic list | | | | |
|------------|--|------------|--------|----------|
| Pos. | Item description | Item | Size | Quantity |
| 1 | ø16 INTERNAL SNAP RING DIN 472 | 560.0005.A | 0 | 1 |
| 2 | OIL SEAL 8 x 16 x 6 TCV (BAB SL) | 690.0075.A | 0 | 1 |
| 3 | WHITE GALVANISED SCREW TCCE M6x50 UNI 5931 8.8 | 521.0006.A | L050 | 2 |
| 4 | XV0 ø22 BH-HY FLANGE | 050.0177.A | 0 | 1 |
| 5 | INJECTION-MOLDED SEAL XV0 (NBR 70 SH) | 050.0180.A | 0 | 2 |
| 6 | XV0 BACK-UP ELEMENT FOR BALANCING | 050.0174.A | 0 | 2 |
| 7 | XV0 BUSH H=14 | 050.0144.A | 0 | 2 |
| 8 | PIN ø3x9,8 | 570.0005.A | 0 | 4 |
| 9 | BODY W/THREAD 1/4" - 1/4" BSP - cc=0,76 | 050.0029.W | H34 | 1 |
| 10 | PLASTIC PLUG ø12 | 580.0001.A | D12 | 3 |
| 11 | CF001 - DRIVING GEAR MILLED SHANK | 050.0021.A | CC0,76 | 1 |
| 12 | COND2 - PERFORATED DRIVEN GEAR | 050.0019.A | CC0,76 | 1 |
| 13 | NEUTRAL XV0 COVER W/DRAINAGE 1/4" BSP | 050.0178.X | F0ZZB | 1 |
| 14 | WHITE GALVANISED NUT M6 H=5 UNI 5588 | 540.0025.A | 0 | 2 |

Table of variations

These two pages provide an overview of all the possible variations for customising a motor with a ø22 HY body-Shaped flange.

By filling in the missing data you can obtain the complete code of the product to be customised.

| | | | | | | | |
|--------------|----------|------------------|--|--|--|--|--|
| X | 0 | M | | | | | |
| Series | X | series XV | | | | | |
| Group | 0 | group 0 | | | | | |
| Category | M | reversible motor | | | | | |
| Displacement | | | | | | | |
| Flange | | | | | | | |
| Shaft | | | | | | | |
| Body | IN | | | | | | |
| | OUT | | | | | | |
| Cover | | | | | | | |



NOTE : This type of pump is also interchangeable with differences between centres of fastening in M5 See dimensions: a - b - c

| ø22 "HY" Body-Shaped FLANGE | |
|-----------------------------|------|
| | Code |
| | 21 |
| | 24 |
| | 25 |

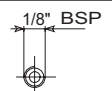
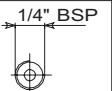
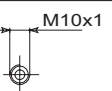
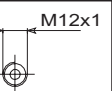
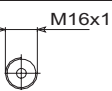
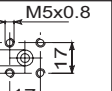
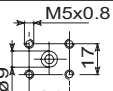
| Shaft | | | |
|----------------|----------------------|----------|----------------------|
| | Code | | Code |
| | CI001 - Parallel | A | CF001 - Milled shank |
| T.2 = 2.1 [Nm] | | | T.2 = 9.2 [Nm] |
| | CF005 - Milled shank | F | CO001 - Tapered |
| T.2 = 8.4 [Nm] | | | T.2 = 21.9 [Nm] |
| | | | |

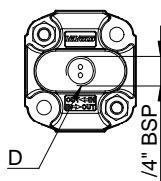
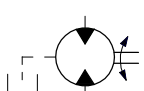
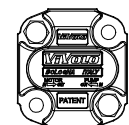
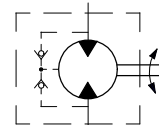
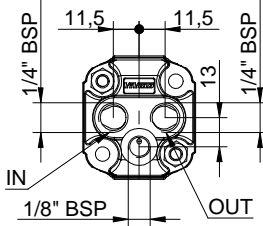
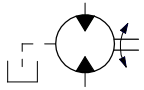
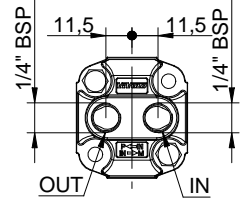
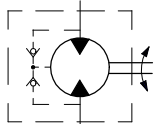

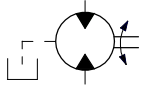
Table of variations

| Displacement | | |
|--------------|------|------|
| TYPE | CODE | A |
| | | mm |
| XV-0M/0.45 | 04 | 58,0 |
| XV-0M/0.57 | 05 | 59,0 |
| XV-0M/0.76 | 06 | 60,5 |
| XV-0M/0.98 | 07 | 62,0 |
| XV-0M/1.27 | 09 | 64,5 |
| XV-0M/1.52 | 11 | 66,5 |
| XV-0M/2.30 | 13 | 72,5 |

| Standard bodies | | |
|-----------------|------------------|-------|
| Displacement | Standard threads | |
| cm3/rev | | |
| 0,17 | B - B | Z - Z |
| 0,25 | B - B | Z - Z |
| 0,45 | B - B | Z - Z |
| 0,57 | B - B | Z - Z |
| 0,76 | B - B | Z - Z |
| 0,98 | B - B | Z - Z |
| 1,27 | B - B | Z - Z |
| 1,52 | B - B | Z - Z |
| 2,30 | B - B | Z - Z |

Table showing standard flange and thread combinations available in stock

| Body (threads/flanges) | | | |
|---|---|---|---|
|  | A |  | B |
|  | D |  | E |
|  | G |  | H |
| | Z |  | I |
| Closed body | Z | | |

| Cover | | Code |
|--|---|------|
|  |  | E |
| External drainage | | |
|  |  | F |
| Internal drainage | | |
|  |  | K |
| IN + OUT + external drainage | | |
|  |  | L |
| IN + OUT + internal drainage | | |
|  |  | P |
| Flange drainage | | |

reversible motor - series XV

XV-0M

HY TYPE MOTOR W/ BODY INLET AND OUTLET
 Ø22 BODY-SHAPED FLANGE - MILLED SHANK



X 0 M 06 21 B B B E

| | | |
|--------------|-----|---------------------------------|
| Series | X | series XV |
| Group | 0 | group 0 |
| Category | M | reversible motor |
| Displacement | 06 | 0.76 |
| Flange | 21 | Ø22 HY reversible rotation |
| Shaft | B | CF001 - Milled shank ø7 - thk.5 |
| Body | IN | inlet - 1/4" GAS |
| | OUT | outlet - 1/4" GAS |
| Cover | E | reversible w/external drainage |

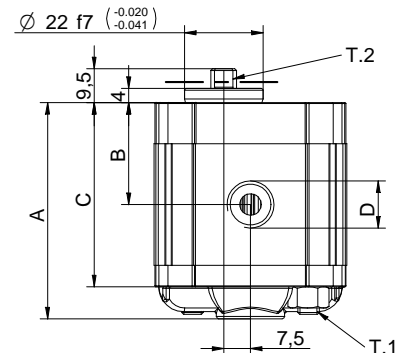
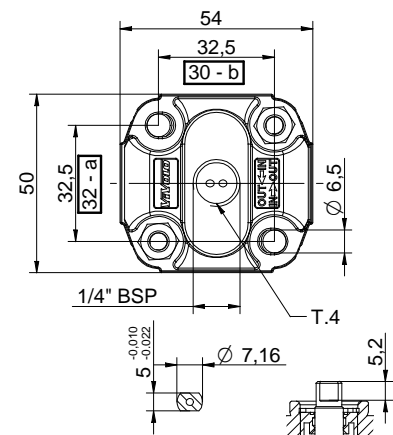


Reference **XM017**

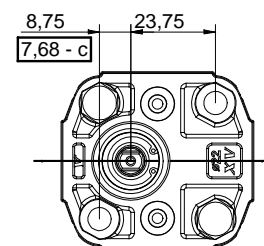
| Technical data table | | | | | | |
|----------------------|-------------------------|---------------|--------|---------------------|---------------------|-------------------|
| TYPE | Displacement cm3/rev | Max. Pressure | | CODE | | |
| | | P1 bar | P3 bar | External drainage | | Internal drainage |
| XV-0M/0.45 | 0,45 | 220 | 280 | X 0 M 04 21 B B B E | X 0 M 04 21 B B B F | |
| XV-0M/0.57 | 0,56 | 220 | 280 | X 0 M 05 21 B B B E | X 0 M 05 21 B B B F | |
| XV-0M/0.76 | 0,75 | 220 | 280 | X 0 M 06 21 B B B E | X 0 M 06 21 B B B F | |
| XV-0M/0.98 | 0,92 | 220 | 280 | X 0 M 07 21 B B B E | X 0 M 07 21 B B B F | |
| XV-0M/1.27 | 1,26 | 220 | 280 | X 0 M 09 21 B B B E | X 0 M 09 21 B B B F | |
| XV-0M/1.52 | 1,48 | 220 | 280 | X 0 M 11 21 B B B E | X 0 M 11 21 B B B F | |
| XV-0M/2.30 | 2,28 | 190 | 210 | X 0 M 13 21 B B B E | X 0 M 13 21 B B B F | |

P1) Max. working pressure - P3) Max. peak pressure

For heavy-duty applications, it is recommended to check the admissible torque of the shaft



| Dimensions table | | | | | | |
|------------------|--------------|------|------|------|-----------|-----------|
| TYPE | Weight kg | A | B | C | D | D |
| | | mm | mm | mm | IN | OUT |
| XV-0M/0.45 | 0,420 | 58,0 | 27,3 | 49,0 | 1/4" BSPP | 1/4" BSPP |
| XV-0M/0.57 | 0,430 | 59,0 | 27,8 | 50,0 | 1/4" BSPP | 1/4" BSPP |
| XV-0M/0.76 | 0,440 | 60,5 | 28,5 | 51,5 | 1/4" BSPP | 1/4" BSPP |
| XV-0M/0.98 | 0,460 | 62,0 | 29,3 | 53,0 | 1/4" BSPP | 1/4" BSPP |
| XV-0M/1.27 | 0,480 | 64,5 | 30,5 | 55,5 | 1/4" BSPP | 1/4" BSPP |
| XV-0M/1.52 | 0,500 | 66,5 | 31,5 | 57,5 | 1/4" BSPP | 1/4" BSPP |
| XV-0M/2.30 | 0,560 | 72,5 | 34,5 | 63,5 | 1/4" BSPP | 1/4" BSPP |



01/03/04_XOR06218BBE.dft

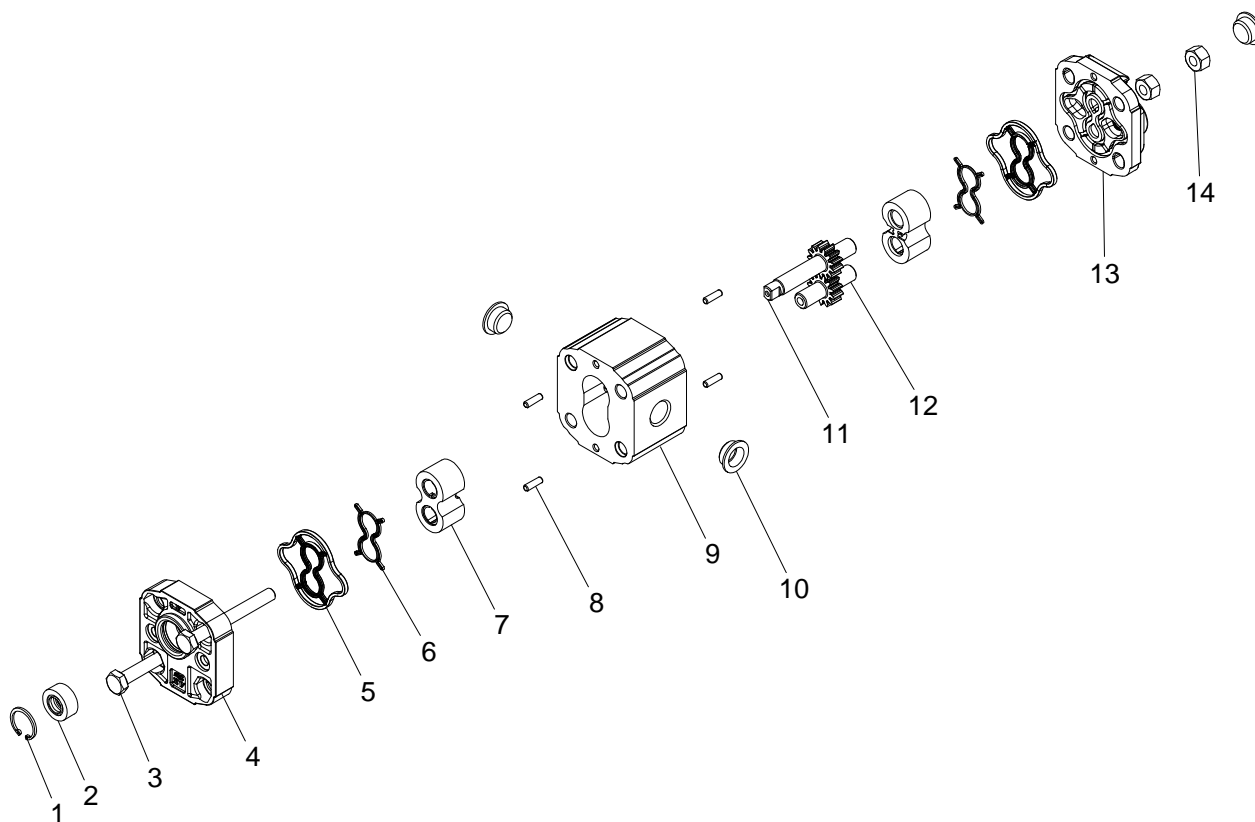
T.1 = 11.7÷13.7 [Nm] - screw tightening torque M6

T.2 = 9.2 [Nm] - admissible shaft torque (N.B. When choosing a shaft, always check the admissible torque).

NOTE: This type of pump is also interchangeable with distance between centres of fastening in M5 (see dim. a, b, c).

| | |
|-----------|--------------|
| Reference | XM017 |
|-----------|--------------|

Example of ordering code:

X0M0621BBBE XV0M/0.76 - Ø22 HY /R - CF001 - 1/4" BSP - 1/4" BSP - Dren. est.


| Basic list | | | | |
|------------|--|------------|--------|----------|
| Pos. | Item description | Item | Size | Quantity |
| 1 | ø16 INTERNAL SNAP RING DIN 472 | 560.0005.A | 0 | 1 |
| 2 | OIL SEAL 8 x 16 x 6 TCV (BAB SL) | 690.0075.A | 0 | 1 |
| 3 | WHITE GALVANISED SCREW TCCE M6x50 UNI 5931 8.8 | 521.0006.A | L050 | 2 |
| 4 | XV0 ø22 BH-HY FLANGE | 050.0177.A | 0 | 1 |
| 5 | INJECTION-MOLDED SEAL XV0 (NBR 70 SH) | 050.0180.A | 0 | 2 |
| 6 | XV0 BACK-UP ELEMENT FOR BALANCING | 050.0174.A | 0 | 2 |
| 7 | XV0 BUSH H=14 | 050.0144.A | 0 | 2 |
| 8 | PIN ø3x9,8 | 570.0005.A | 0 | 4 |
| 9 | BODY W/THREAD 1/4" - 1/4" BSP - cc=0,76 | 050.0029.W | H34 | 1 |
| 10 | PLASTIC PLUG ø12 | 580.0001.A | D12 | 3 |
| 11 | CF001 - DRIVING GEAR MILLED SHANK | 050.0021.A | CC0,76 | 1 |
| 12 | COND2 - PERFORATED DRIVEN GEAR | 050.0019.A | CC0,76 | 1 |
| 13 | NEUTRAL XV0 COVER W/DRAINAGE 1/4" BSP | 050.0178.X | F0ZZB | 1 |
| 14 | WHITE GALVANISED NUT M6 H=5 UNI 5588 | 540.0025.A | 0 | 2 |

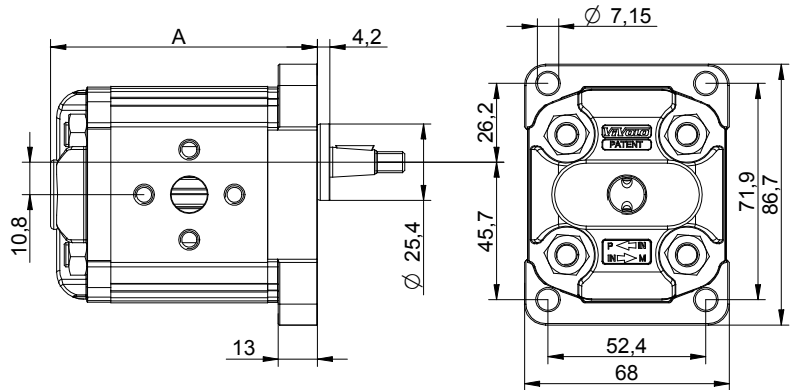
Table of variations

These two pages provide an overview of all the possible variations for customising a pump with a ø25.4 flange.

By filling in the missing data you can obtain the complete code of the product to be customised.



| | | |
|--------------|-----------|------------------|
| Series | X | series XV |
| Group | 1 | group 1 |
| Category | M | reversible motor |
| Displacement | | |
| Flange | | |
| Shaft | | |
| Body | IN OUT | |
| Cover | | |



ø25.4 FLANGE

Shaft

| Code |
|-----------|
| 01 |

| Code | Code |
|----------|----------|
| F | D |

CO001 - Tapered

CF002 - Milled shank

| Code |
|-----------|
| 04 |

| Code | Code |
|----------|----------|
| J | L |

SCF04 - Splined
 m=1,6 Z=6
 DIN 5482 - 12x9

SCF02 - Splined
 m=0,75 Z=15

| Code | Code |
|----------|----------|
| Q | R |

SCF01 - Splined
 m=0,75 Z=15

SCF03 - Splined
 m=0,75 Z=15

Table of variations

| Displacement | | |
|--------------|------|-------|
| TYPE | CODE | A |
| | | mm |
| XV-1M/0.9 | 16 | 78,1 |
| XV-1M/1.2 | 17 | 79,0 |
| XV-1M/1.7 | 18 | 80,5 |
| XV-1M/2.2 | 20 | 82,5 |
| XV-1M/2.6 | 21 | 84,5 |
| XV-1M/3.2 | 23 | 86,5 |
| XV-1M/3.8 | 25 | 88,5 |
| XV-1M/4.3 | 27 | 90,5 |
| XV-1M/4.9 | 29 | 93,5 |
| XV-1M/5.9 | 31 | 97,0 |
| XV-1M/6.5 | 32 | 98,5 |
| XV-1M/7.8 | 34 | 103,5 |
| XV-1M/9.8 | 36 | 112,5 |

| Standard bodies | | | | |
|-------------------------|------------------|-------|-------|-------|
| Displacement cm3/rev | Standard threads | | | |
| | 0.9 | I - I | B - B | J - J |
| 1.2 | I - I | B - B | J - J | Z - Z |
| 1.7 | I - I | B - B | J - J | Z - Z |
| 2.2 | I - I | B - B | J - J | Z - Z |
| 2.6 | I - I | B - B | J - J | Z - Z |
| 3.2 | I - I | B - B | J - J | Z - Z |
| 3.8 | I - I | B - B | J - J | Z - Z |
| 4.3 | I - I | B - B | J - J | Z - Z |
| 4.9 | I - I | B - B | J - J | Z - Z |
| 5.9 | I - I | B - B | J - J | Z - Z |
| 6.5 | I - I | B - B | J - J | Z - Z |
| 7.8 | I - I | B - B | J - J | Z - Z |
| 9.8 | I - I | B - B | J - J | Z - Z |

Table showing standard flange and thread combinations available in stock

| Body (threads/flanges) | | | |
|------------------------|---|-------------|---|
| | A | | B |
| | C | | D |
| | E | | F |
| | G | | H |
| | I | | J |
| | J | Closed Body | Z |

| Cover | | Code |
|------------------------------|--|------|
| | | E |
| External drainage | | |
| | | F |
| Internal drainage | | |
| | | K |
| IN + OUT + external drainage | | |
| | | L |
| IN + OUT + internal drainage | | |

reversible motor - series XV

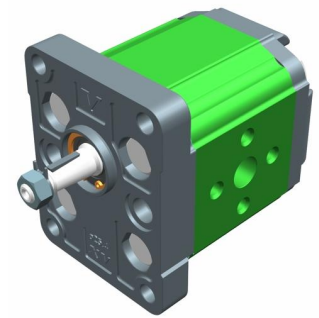
XV-1M

STANDARD EUROPEAN MOTOR
 ø25.4 FLANGE - TAPER SHAFT



X 1 M 25 01 F I I E

| | | |
|--------------|-----|--|
| Series | X | series XV |
| Group | 1 | group 1 |
| Category | M | reversible motor |
| Displacement | 25 | 3.8 |
| Flange | 01 | Ø25.4 STANDARD EUROPEAN reversible rotation |
| Shaft | F | CO001 - Tapered 1:8 - ø10 - M7x1 - key thk.2.4 |
| Body | IN | inlet - Ø30 Ø12 M6 |
| | OUT | outlet - Ø30 Ø12 M6 |
| Cover | E | with drainage 1/4" BSP |



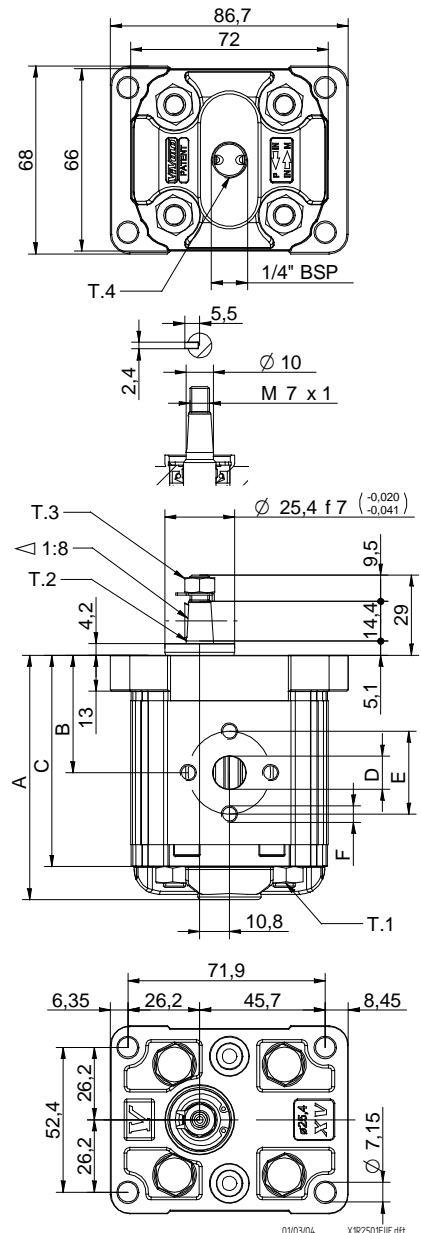
Reference **XM101**

| Technical data table | | | | | | |
|----------------------|-------------------------|---------------|--------|---------------------|---------------------|---------------------|
| TYPE | Displacement cm3/rev | Max. Pressure | | CODE | | |
| | | P1 bar | P3 bar | External drainage | | Internal drainage |
| XV-1M/0.9 | 0,91 | 240 | 280 | X 1 M 16 01 F I I E | X 1 M 16 01 F I I F | X 1 M 16 01 F I I F |
| XV-1M/1.2 | 1,17 | 250 | 290 | X 1 M 17 01 F I I E | X 1 M 17 01 F I I F | X 1 M 17 01 F I I F |
| XV-1M/1.7 | 1,56 | 250 | 290 | X 1 M 18 01 F I I E | X 1 M 18 01 F I I F | X 1 M 18 01 F I I F |
| XV-1M/2.2 | 2,08 | 250 | 290 | X 1 M 20 01 F I I E | X 1 M 20 01 F I I F | X 1 M 20 01 F I I F |
| XV-1M/2.6 | 2,60 | 250 | 300 | X 1 M 21 01 F I I E | X 1 M 21 01 F I I F | X 1 M 21 01 F I I F |
| XV-1M/3.2 | 3,12 | 250 | 300 | X 1 M 23 01 F I I E | X 1 M 23 01 F I I F | X 1 M 23 01 F I I F |
| XV-1M/3.8 | 3,64 | 250 | 300 | X 1 M 25 01 F I I E | X 1 M 25 01 F I I F | X 1 M 25 01 F I I F |
| XV-1M/4.3 | 4,16 | 250 | 300 | X 1 M 27 01 F I I E | X 1 M 27 01 F I I F | X 1 M 27 01 F I I F |
| XV-1M/4.9 | 4,94 | 250 | 300 | X 1 M 29 01 F I I E | X 1 M 29 01 F I I F | X 1 M 29 01 F I I F |
| XV-1M/5.9 | 5,85 | 250 | 300 | X 1 M 31 01 F I I E | X 1 M 31 01 F I I F | X 1 M 31 01 F I I F |
| XV-1M/6.5 | 6,50 | 250 | 300 | X 1 M 32 01 F I I E | X 1 M 32 01 F I I F | X 1 M 32 01 F I I F |
| XV-1M/7.8 | 7,54 | 220 | 260 | X 1 M 34 01 F I I E | X 1 M 34 01 F I I F | X 1 M 34 01 F I I F |
| XV-1M/9.8 | 9,88 | 190 | 230 | X 1 M 36 01 F I I E | X 1 M 36 01 F I I F | X 1 M 36 01 F I I F |

P1) Max. working pressure - P3) Max. peak pressure

For heavy-duty applications, it is recommended to check the admissible torque of the shaft

| Dimensions table | | | | | | | | | | |
|------------------|--------------|-------|------|-------|-----|----|------|-----|----|------|
| TYPE | Weight kg | A | B | C | D | E | F | D | E | F |
| | | mm | mm | mm | IN | | | OUT | | |
| XV-1M/0.9 | 0,950 | 78,1 | 37,3 | 66,1 | ø12 | 30 | M6x1 | ø12 | 30 | M6x1 |
| XV-1M/1.2 | 0,970 | 79,0 | 37,8 | 67,0 | ø12 | 30 | M6x1 | ø12 | 30 | M6x1 |
| XV-1M/1.7 | 1,010 | 80,5 | 38,5 | 68,5 | ø12 | 30 | M6x1 | ø12 | 30 | M6x1 |
| XV-1M/2.2 | 1,030 | 82,5 | 39,5 | 70,5 | ø12 | 30 | M6x1 | ø12 | 30 | M6x1 |
| XV-1M/2.6 | 1,060 | 84,5 | 40,5 | 72,5 | ø12 | 30 | M6x1 | ø12 | 30 | M6x1 |
| XV-1M/3.2 | 1,090 | 86,5 | 41,5 | 74,5 | ø12 | 30 | M6x1 | ø12 | 30 | M6x1 |
| XV-1M/3.8 | 1,120 | 88,5 | 42,5 | 76,5 | ø12 | 30 | M6x1 | ø12 | 30 | M6x1 |
| XV-1M/4.3 | 1,170 | 90,5 | 43,5 | 78,5 | ø12 | 30 | M6x1 | ø12 | 30 | M6x1 |
| XV-1M/4.9 | 1,200 | 93,5 | 45,0 | 81,5 | ø12 | 30 | M6x1 | ø12 | 30 | M6x1 |
| XV-1M/5.9 | 1,260 | 97,0 | 46,8 | 85,0 | ø12 | 30 | M6x1 | ø12 | 30 | M6x1 |
| XV-1M/6.5 | 1,300 | 98,5 | 48,0 | 86,5 | ø12 | 30 | M6x1 | ø12 | 30 | M6x1 |
| XV-1M/7.8 | 1,360 | 103,5 | 50,0 | 91,5 | ø12 | 30 | M6x1 | ø12 | 30 | M6x1 |
| XV-1M/9.8 | 1,500 | 112,5 | 54,5 | 100,5 | ø12 | 30 | M6x1 | ø12 | 30 | M6x1 |



T.1 = 24.5±29.4 [Nm] - screw tightening torque M8

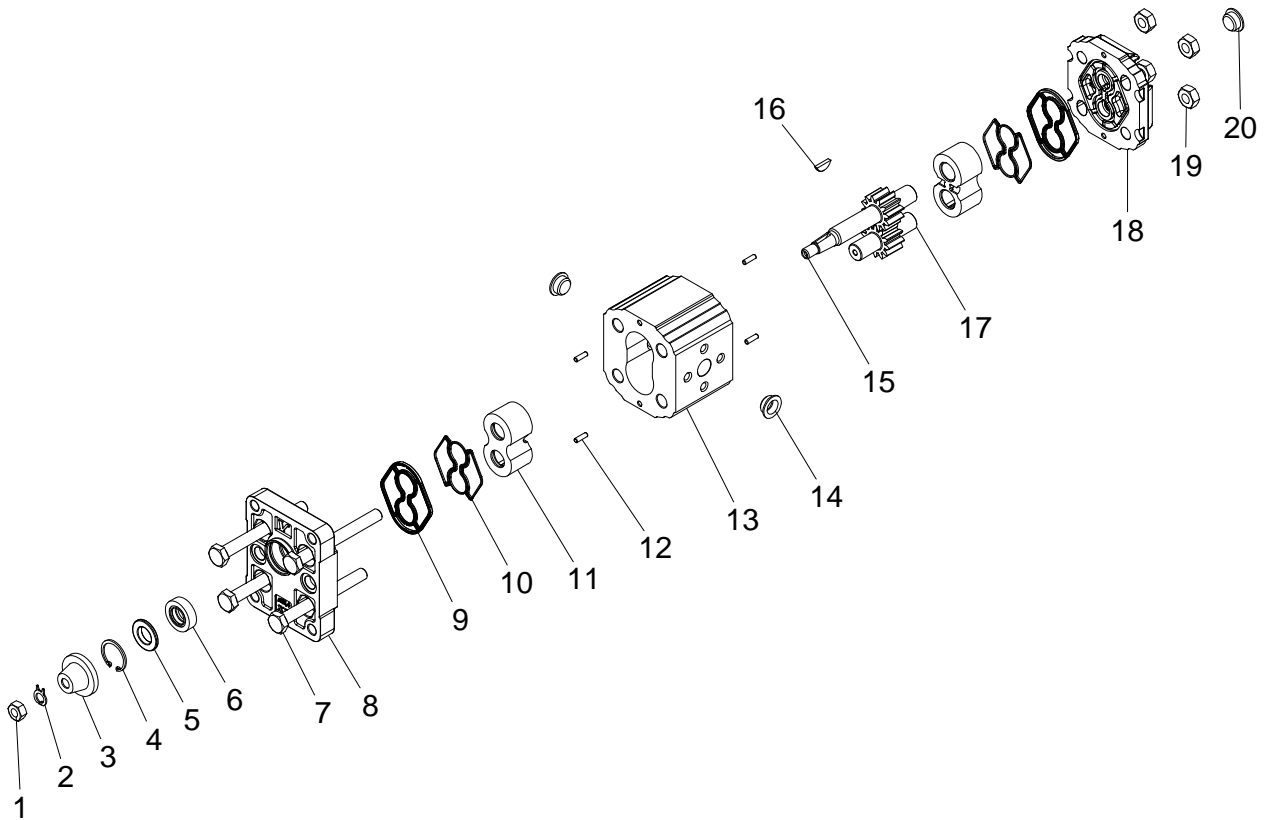
T.3 = 11.5 [Nm] - torque wrench setting 11

T.2 = 43 [Nm] - admissible shaft torque (N.B. When choosing a shaft, always check the admissible torque).

T.4 = 0.3÷0.5 bar - max. drainage pressure

| | |
|-----------|--------------|
| Reference | XM101 |
|-----------|--------------|

Example of ordering code:

X1M2501FIE XV1M/3.8 - Ø25.4 /R - CO001 - Ø30 M6 - Ø30 M6 - Dren. est.


| Basic list | | | | |
|------------|--|------------|-------|----------|
| Pos. | Item description | Item | Size | Quantity |
| 1 | WHITE GALVANISED NUT M7x1 H=5.5 CH=11 UNI 5588 | 540.0035.A | 0 | 1 |
| 2 | TAB WASHER ø7.25xø11 | 100.0175.A | 0 | 1 |
| 3 | KEY PROTECTION XV1 | 590.0005.A | 0 | 1 |
| 4 | ø22 INTERNAL SNAP RING DIN 472 | 560.0010.A | 0 | 1 |
| 5 | BACK UP WASHER OIL SEAL XV1M | 100.0145.A | 0 | 1 |
| 6 | OIL SEAL 12 X 22 X 5 SC | 690.0070.A | 0 | 1 |
| 7 | WHITE GALVANISED SCREW TE M8x75 UNI 5737 8.8 | 531.0008.A | L075 | 4 |
| 8 | XV1 ø25,4 FLANGE | 100.0270.A | 0 | 1 |
| 9 | INJECTION-MOLDED SEAL XV1 (NBR 70÷75 SH) | 100.0247.C | 0 | 2 |
| 10 | XV1 BACK-UP ELEMENT FOR BALANCING | 100.0248.A | 0 | 2 |
| 11 | XV1 BUSH H=19 | 100.0501.A | 0 | 2 |
| 12 | PIN ø3x9,8 | 570.0005.A | 0 | 4 |
| 13 | FLANGED BODY 30-M6 - 30-M6 - cc=3,8 | 100.0020.A | H52 | 1 |
| 14 | PLASTIC PLUG ø12,5 | 580.0001.A | D12,5 | 2 |
| 15 | CO001 - TAPERED 1:8 DRIVING GEAR | 100.0035.A | CC3,8 | 1 |
| 16 | WOODRUFF KEY ø13x2,4 H=5 | 100.0170.A | 0 | 1 |
| 17 | COND2 - PERFORATED DRIVEN GEAR | 100.0023.A | CC3,8 | 1 |
| 18 | NEUTRAL XV1 COVER W/DRAINAGE 1/4" BSP | 100.0274.X | F1ZZA | 1 |
| 19 | WHITE GALVANISED NUT M8 H=6 UNI 5588 | 540.0040.A | 0 | 4 |
| 20 | PLASTIC PLUG ø12 | 580.0001.A | D12 | 1 |

reversible motor - series XV

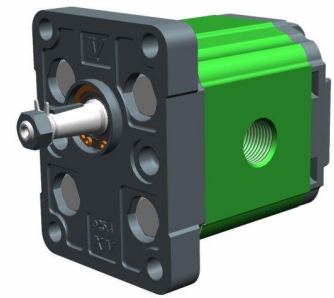
XV-1M

STANDARD EUROPEAN MOTOR
 ø25.4 FLANGE - TAPER SHAFT



X 1 M 25 01 F B B E

| | | |
|--------------|-----|--|
| Series | X | series XV |
| Group | 1 | group 1 |
| Category | M | reversible motor |
| Displacement | 25 | 3.8 |
| Flange | 01 | Ø25.4 STANDARD EUROPEAN reversible rotation |
| Shaft | F | CO001 - Tapered 1:8 - ø10 - M7x1 - key thk.2.4 |
| Body | IN | inlet - 3/8" GAS |
| | OUT | outlet - 3/8" GAS |
| Cover | E | with drainage 1/4" BSP |



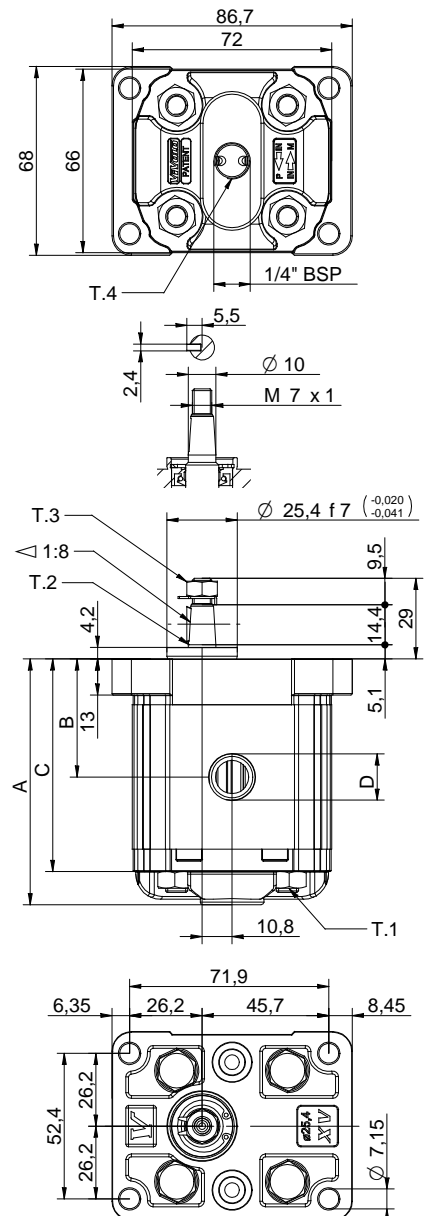
Reference **XM105**

| Technical data table | | | | | | |
|----------------------|-------------------------|---------------|--------|---------------------|---------------------|-------------------|
| TYPE | Displacement cm3/rev | Max. Pressure | | CODE | | |
| | | P1 bar | P3 bar | External drainage | | Internal drainage |
| XV-1M/0.9 | 0,91 | 240 | 280 | X 1 M 16 01 F B B E | X 1 M 16 01 F B B F | |
| XV-1M/1.2 | 1,17 | 250 | 290 | X 1 M 17 01 F B B E | X 1 M 17 01 F B B F | |
| XV-1M/1.7 | 1,56 | 250 | 290 | X 1 M 18 01 F B B E | X 1 M 18 01 F B B F | |
| XV-1M/2.2 | 2,08 | 250 | 290 | X 1 M 20 01 F B B E | X 1 M 20 01 F B B F | |
| XV-1M/2.6 | 2,60 | 250 | 300 | X 1 M 21 01 F B B E | X 1 M 21 01 F B B F | |
| XV-1M/3.2 | 3,12 | 250 | 300 | X 1 M 23 01 F B B E | X 1 M 23 01 F B B F | |
| XV-1M/3.8 | 3,64 | 250 | 300 | X 1 M 25 01 F B B E | X 1 M 25 01 F B B F | |
| XV-1M/4.3 | 4,16 | 250 | 300 | X 1 M 27 01 F B B E | X 1 M 27 01 F B B F | |
| XV-1M/4.9 | 4,94 | 250 | 300 | X 1 M 29 01 F B B E | X 1 M 29 01 F B B F | |
| XV-1M/5.9 | 5,85 | 250 | 300 | X 1 M 31 01 F B B E | X 1 M 31 01 F B B F | |
| XV-1M/6.5 | 6,50 | 250 | 300 | X 1 M 32 01 F B B E | X 1 M 32 01 F B B F | |
| XV-1M/7.8 | 7,54 | 220 | 260 | X 1 M 34 01 F B B E | X 1 M 34 01 F B B F | |
| XV-1M/9.8 | 9,88 | 190 | 230 | X 1 M 36 01 F B B E | X 1 M 36 01 F B B F | |

P1) Max. working pressure - P3) Max. peak pressure

For heavy-duty applications, it is recommended to check the admissible torque of the shaft

| Dimensions table | | | | | | |
|------------------|--------------|-------|------|-------|-----------|-----------|
| TYPE | Weight kg | A | B | C | D | D |
| | | mm | mm | mm | IN | OUT |
| XV-1M/0.9 | 0,950 | 78,1 | 37,3 | 66,1 | 3/8" BSPP | 3/8" BSPP |
| XV-1M/1.2 | 0,970 | 79,0 | 37,8 | 67,0 | 3/8" BSPP | 3/8" BSPP |
| XV-1M/1.7 | 1,010 | 80,5 | 38,5 | 68,5 | 3/8" BSPP | 3/8" BSPP |
| XV-1M/2.2 | 1,030 | 82,5 | 39,5 | 70,5 | 3/8" BSPP | 3/8" BSPP |
| XV-1M/2.6 | 1,060 | 84,5 | 40,5 | 72,5 | 3/8" BSPP | 3/8" BSPP |
| XV-1M/3.2 | 1,090 | 86,5 | 41,5 | 74,5 | 3/8" BSPP | 3/8" BSPP |
| XV-1M/3.8 | 1,120 | 88,5 | 42,5 | 76,5 | 3/8" BSPP | 3/8" BSPP |
| XV-1M/4.3 | 1,170 | 90,5 | 43,5 | 78,5 | 3/8" BSPP | 3/8" BSPP |
| XV-1M/4.9 | 1,200 | 93,5 | 45,0 | 81,5 | 3/8" BSPP | 3/8" BSPP |
| XV-1M/5.9 | 1,260 | 97,0 | 46,8 | 85,0 | 3/8" BSPP | 3/8" BSPP |
| XV-1M/6.5 | 1,300 | 98,5 | 48,0 | 86,5 | 3/8" BSPP | 3/8" BSPP |
| XV-1M/7.8 | 1,360 | 103,5 | 50,0 | 91,5 | 3/8" BSPP | 3/8" BSPP |
| XV-1M/9.8 | 1,500 | 112,5 | 54,5 | 100,5 | 3/8" BSPP | 3/8" BSPP |



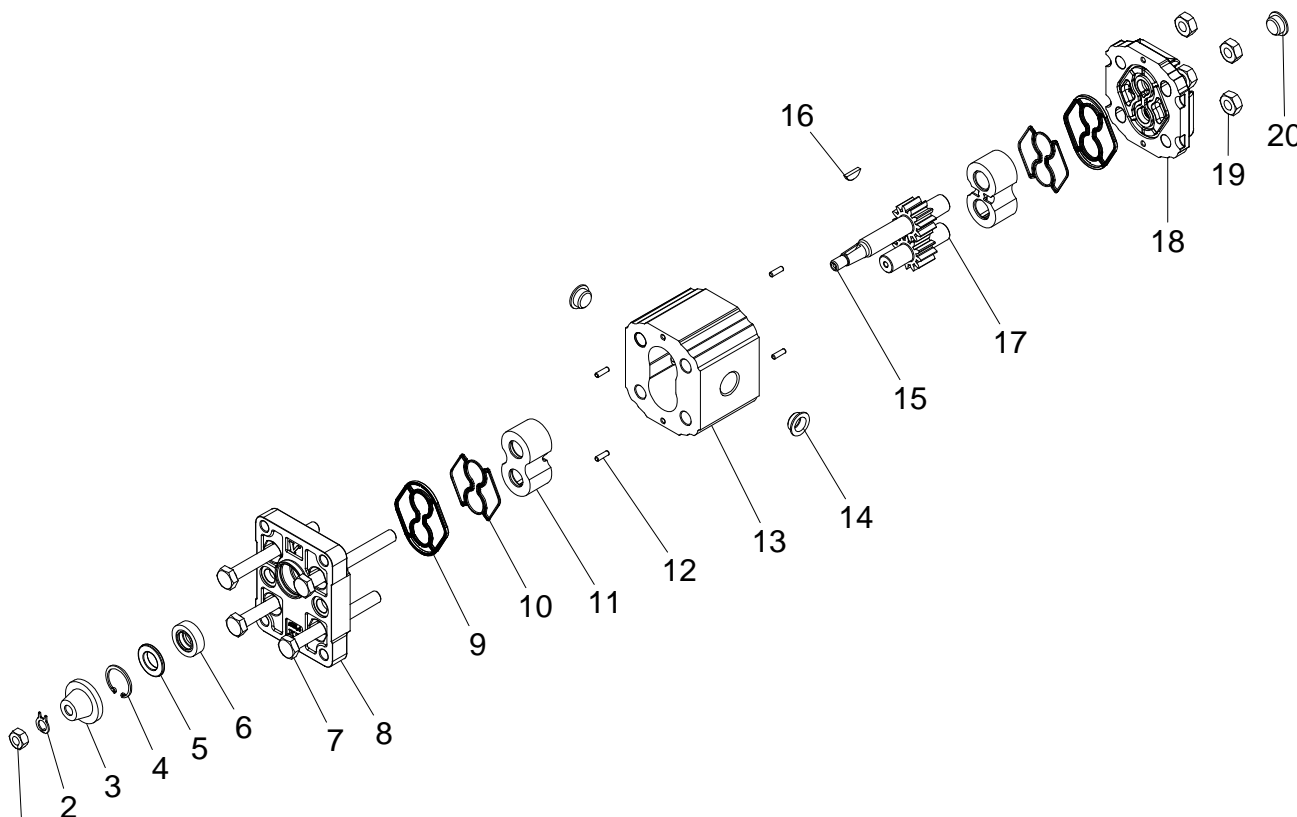
T.1 = 24.5÷29.4 [Nm] - screw tightening torque M8

T.3 = 11.5 [Nm] - torque wrench setting 11

T.2 = 43 [Nm] - admissible shaft torque (N.B. When choosing a shaft, always check the admissible torque).

T.4 = 0.3÷0.5 bar - max. drainage pressure

Example of ordering code:

X1M2501FBBE XV1M/3.8 - Ø25.4 /R - CO001 - 3/8" BSP - 3/8" BSP - Dren. est.

Basic list

| Pos. | Item description | Item | Size | Quantity |
|------|--|------------|-------|----------|
| 1 | WHITE GALVANISED NUT M7x1 H=5.5 CH=11 UNI 5588 | 540.0035.A | 0 | 1 |
| 2 | TAB WASHER ø7.25xø11 | 100.0175.A | 0 | 1 |
| 3 | KEY PROTECTION XV1 | 590.0005.A | 0 | 1 |
| 4 | ø22 INTERNAL SNAP RING DIN 472 | 560.0010.A | 0 | 1 |
| 5 | BACK UP WASHER OIL SEAL XV1M | 100.0145.A | 0 | 1 |
| 6 | OIL SEAL 12 X 22 X 5 SC | 690.0070.A | 0 | 1 |
| 7 | WHITE GALVANISED SCREW TE M8x75 UNI 5737 8.8 | 531.0008.A | L075 | 4 |
| 8 | XV1 ø25,4 FLANGE | 100.0270.A | 0 | 1 |
| 9 | INJECTION-MOLDED SEAL XV1 (NBR 70÷75 SH) | 100.0247.C | 0 | 2 |
| 10 | XV1 BACK-UP ELEMENT FOR BALANCING | 100.0248.A | 0 | 2 |
| 11 | XV1 BUSH H=19 | 100.0501.A | 0 | 2 |
| 12 | PIN ø3x9,8 | 570.0005.A | 0 | 4 |
| 13 | BODY W/THREAD 3/8" - 3/8" BSP - cc=3,8 | 100.0067.A | H52 | 1 |
| 14 | PLASTIC PLUG ø15,5 | 580.0001.A | D15,5 | 2 |
| 15 | CO001 - TAPERED 1:8 DRIVING GEAR | 100.0035.A | CC3,8 | 1 |
| 16 | WOODRUFF KEY ø13x2,4 H=5 | 100.0170.A | 0 | 1 |
| 17 | COND2 - PERFORATED DRIVEN GEAR | 100.0023.A | CC3,8 | 1 |
| 18 | NEUTRAL XV1 COVER W/DRAINAGE 1/4" BSP | 100.0274.X | F1ZZA | 1 |
| 19 | WHITE GALVANISED NUT M8 H=6 UNI 5588 | 540.0040.A | 0 | 4 |
| 20 | PLASTIC PLUG ø12 | 580.0001.A | D12 | 1 |

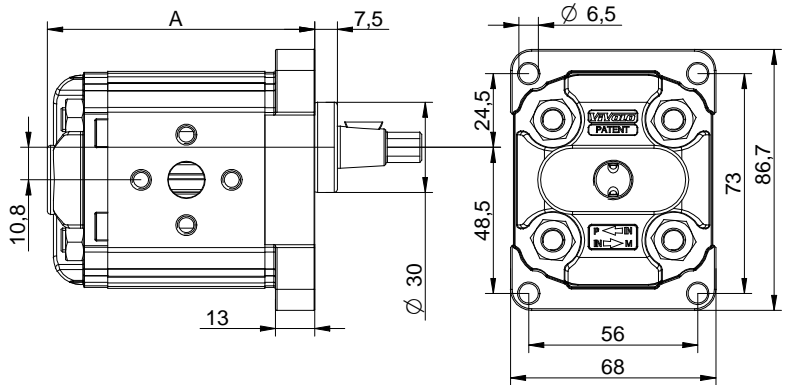
Table of variations

These two pages provide an overview of all the possible variations for customising a pump with a ø30 flange.

By filling in the missing data you can obtain the complete code of the product to be customised.



| | | |
|--------------|-----------|------------------|
| Series | X | series XV |
| Group | 1 | |
| Category | M | reversible motor |
| Displacement | | |
| Flange | | |
| Shaft | | |
| Body | IN OUT | |
| Cover | | |



ø30 FLANGE

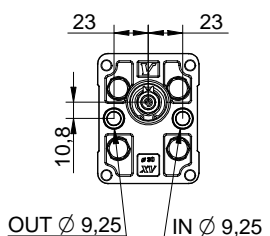
Shaft

| Code |
|------|
| 07 |



| Code | Code |
|------------------|-----------------|
| CI001 - Parallel | CO002 - Tapered |
| | |
| A | G |

| Code |
|------|
| 10 |



| | |
|---------------------|--------------------|
| CI001+HK - Parallel | CO002+HK - Tapered |
| | |
| P | O |

Table of variations

| Displacement | | |
|--------------|------|-------|
| TYPE | CODE | A |
| | | mm |
| XV-1M/0.9 | 16 | 78,1 |
| XV-1M/1.2 | 17 | 79,0 |
| XV-1M/1.7 | 18 | 80,5 |
| XV-1M/2.2 | 20 | 82,5 |
| XV-1M/2.6 | 21 | 84,5 |
| XV-1M/3.2 | 23 | 86,5 |
| XV-1M/3.8 | 25 | 88,5 |
| XV-1M/4.3 | 27 | 90,5 |
| XV-1M/4.9 | 29 | 93,5 |
| XV-1M/5.9 | 31 | 97,0 |
| XV-1M/6.5 | 32 | 98,5 |
| XV-1M/7.8 | 34 | 103,5 |
| XV-1M/9.8 | 36 | 112,5 |

| Standard bodies | | | | |
|-------------------------|------------------|-------|-------|-------|
| Displacement cm3/rev | Standard threads | | | |
| | 0.9 | I - I | B - B | J - J |
| 1.2 | I - I | B - B | J - J | Z - Z |
| 1.7 | I - I | B - B | J - J | Z - Z |
| 2.2 | I - I | B - B | J - J | Z - Z |
| 2.6 | I - I | B - B | J - J | Z - Z |
| 3.2 | I - I | B - B | J - J | Z - Z |
| 3.8 | I - I | B - B | J - J | Z - Z |
| 4.3 | I - I | B - B | J - J | Z - Z |
| 4.9 | I - I | B - B | J - J | Z - Z |
| 5.9 | I - I | B - B | J - J | Z - Z |
| 6.5 | I - I | B - B | J - J | Z - Z |
| 7.8 | I - I | B - B | J - J | Z - Z |
| 9.8 | I - I | B - B | J - J | Z - Z |

Table showing standard flange and thread combinations available in stock

| Body (threads/flanges) | | | |
|------------------------|---|-------------|---|
| | A | | B |
| | C | | D |
| | E | | F |
| | G | | H |
| | I | | J |
| | J | Closed Body | Z |

| Cover | | Code |
|------------------------------|--|------|
| | | E |
| External drainage | | |
| | | F |
| Internal drainage | | |
| | | K |
| IN + OUT + external drainage | | |
| | | L |
| IN + OUT + internal drainage | | |

reversible motor - series XV

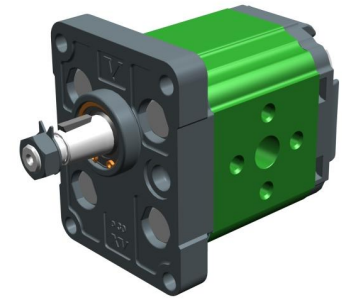
XV-1M

STANDARD MOTOR
 ø30 FLANGE - TAPER SHAFT



X 1 M 25 07 G I I E

| | | |
|--------------|-----|---|
| Series | X | series XV |
| Group | 1 | group 1 |
| Category | M | reversible motor |
| Displacement | 25 | 3.8 |
| Flange | 07 | Ø30 STANDARD reversible rotation |
| Shaft | G | CO002 - Tapered 1:8 - ø14 - M10x1 - key thk.3 |
| Body | IN | inlet - Ø30 Ø12 M6 |
| | OUT | outlet - Ø30 Ø12 M6 |
| Cover | E | with drainage 1/4" BSP |



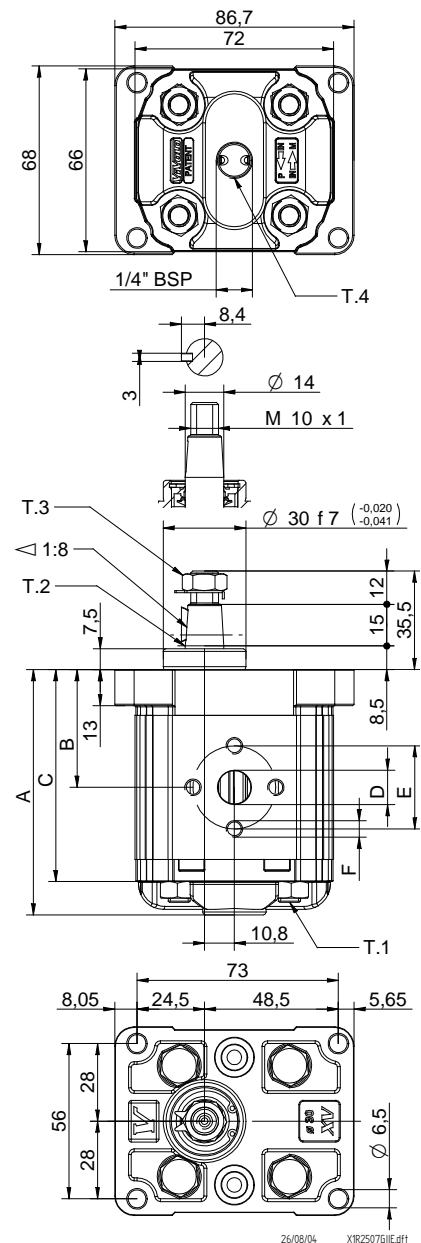
Reference **XM113**

| Technical data table | | | | | | | | | | | | | | | | | | | | | |
|----------------------|-------------------------|---------------|--------|-------------------|---|---|-------------------|----|---|---|---|---|---|---|---|----|----|---|---|---|---|
| TYPE | Displacement cm3/rev | Max. Pressure | | CODE | | | | | | | | | | | | | | | | | |
| | | P1 bar | P3 bar | External drainage | | | Internal drainage | | | | | | | | | | | | | | |
| XV-1M/0.9 | 0,91 | 240 | 280 | X | 1 | M | 16 | 07 | G | I | I | E | X | 1 | M | 16 | 07 | G | I | I | F |
| XV-1M/1.2 | 1,17 | 250 | 290 | X | 1 | M | 17 | 07 | G | I | I | E | X | 1 | M | 17 | 07 | G | I | I | F |
| XV-1M/1.7 | 1,56 | 250 | 290 | X | 1 | M | 18 | 07 | G | I | I | E | X | 1 | M | 18 | 07 | G | I | I | F |
| XV-1M/2.2 | 2,08 | 250 | 290 | X | 1 | M | 20 | 07 | G | I | I | E | X | 1 | M | 20 | 07 | G | I | I | F |
| XV-1M/2.6 | 2,60 | 250 | 300 | X | 1 | M | 21 | 07 | G | I | I | E | X | 1 | M | 21 | 07 | G | I | I | F |
| XV-1M/3.2 | 3,12 | 250 | 300 | X | 1 | M | 23 | 07 | G | I | I | E | X | 1 | M | 23 | 07 | G | I | I | F |
| XV-1M/3.8 | 3,64 | 250 | 300 | X | 1 | M | 25 | 07 | G | I | I | E | X | 1 | M | 25 | 07 | G | I | I | F |
| XV-1M/4.3 | 4,16 | 250 | 300 | X | 1 | M | 27 | 07 | G | I | I | E | X | 1 | M | 27 | 07 | G | I | I | F |
| XV-1M/4.9 | 4,94 | 250 | 300 | X | 1 | M | 29 | 07 | G | I | I | E | X | 1 | M | 29 | 07 | G | I | I | F |
| XV-1M/5.9 | 5,85 | 250 | 300 | X | 1 | M | 31 | 07 | G | I | I | E | X | 1 | M | 31 | 07 | G | I | I | F |
| XV-1M/6.5 | 6,50 | 250 | 300 | X | 1 | M | 32 | 07 | G | I | I | E | X | 1 | M | 32 | 07 | G | I | I | F |
| XV-1M/7.8 | 7,54 | 220 | 260 | X | 1 | M | 34 | 07 | G | I | I | E | X | 1 | M | 34 | 07 | G | I | I | F |
| XV-1M/9.8 | 9,88 | 190 | 230 | X | 1 | M | 36 | 07 | G | I | I | E | X | 1 | M | 36 | 07 | G | I | I | F |

P1) Max. working pressure - P3) Max. peak pressure

For heavy-duty applications, it is recommended to check the admissible torque of the shaft

| Dimensions table | | | | | | | | | | |
|------------------|--------------|-------|------|-------|-----|----|------|-----|----|------|
| TYPE | Weight kg | A | B | C | D | E | F | D | E | F |
| | | mm | mm | mm | IN | | | OUT | | |
| XV-1M/0.9 | 0,950 | 78,1 | 37,3 | 66,1 | ø12 | 30 | M6x1 | ø12 | 30 | M6x1 |
| XV-1M/1.2 | 0,970 | 79,0 | 37,8 | 67,0 | ø12 | 30 | M6x1 | ø12 | 30 | M6x1 |
| XV-1M/1.7 | 1,010 | 80,5 | 38,5 | 68,5 | ø12 | 30 | M6x1 | ø12 | 30 | M6x1 |
| XV-1M/2.2 | 1,030 | 82,5 | 39,5 | 70,5 | ø12 | 30 | M6x1 | ø12 | 30 | M6x1 |
| XV-1M/2.6 | 1,060 | 84,5 | 40,5 | 72,5 | ø12 | 30 | M6x1 | ø12 | 30 | M6x1 |
| XV-1M/3.2 | 1,090 | 86,5 | 41,5 | 74,5 | ø12 | 30 | M6x1 | ø12 | 30 | M6x1 |
| XV-1M/3.8 | 1,120 | 88,5 | 42,5 | 76,5 | ø12 | 30 | M6x1 | ø12 | 30 | M6x1 |
| XV-1M/4.3 | 1,170 | 90,5 | 43,5 | 78,5 | ø12 | 30 | M6x1 | ø12 | 30 | M6x1 |
| XV-1M/4.9 | 1,200 | 93,5 | 45,0 | 81,5 | ø12 | 30 | M6x1 | ø12 | 30 | M6x1 |
| XV-1M/5.9 | 1,260 | 97,0 | 46,8 | 85,0 | ø12 | 30 | M6x1 | ø12 | 30 | M6x1 |
| XV-1M/6.5 | 1,300 | 98,5 | 48,0 | 86,5 | ø12 | 30 | M6x1 | ø12 | 30 | M6x1 |
| XV-1M/7.8 | 1,360 | 103,5 | 50,0 | 91,5 | ø12 | 30 | M6x1 | ø12 | 30 | M6x1 |
| XV-1M/9.8 | 1,500 | 112,5 | 54,5 | 100,5 | ø12 | 30 | M6x1 | ø12 | 30 | M6x1 |



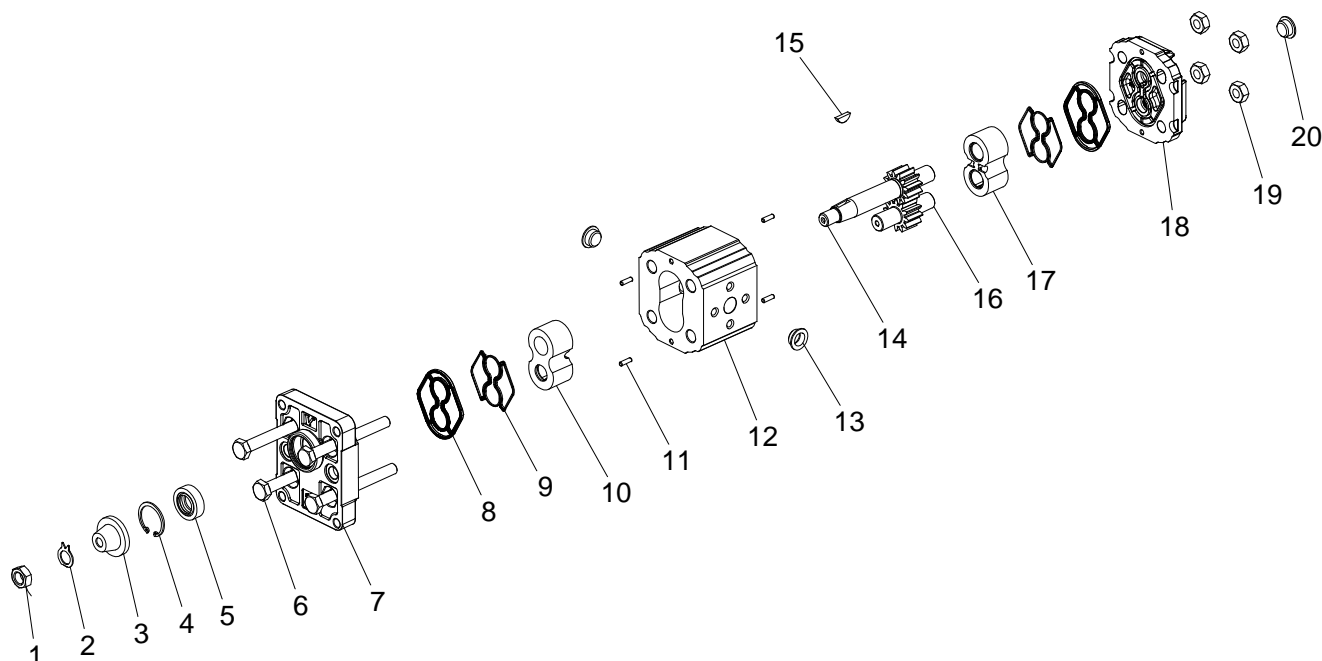
T.1 = 24.5±29.4 [Nm] - screw tightening torque M8

T.3 = 13 [Nm] - torque wrench setting 17

T.2 = 119.8 [Nm] - admissible shaft torque (N.B. When choosing a shaft, always check the admissible torque).

T.4 = 0.3±0.5 bar - max. drainage pressure

Example of ordering code:

X1M2507GIIIE XV1M/3.8 - Ø30 /R - CO002 - Ø30 M6 - Ø30 M6 - Dren. est.

Basic list

| Pos. | Item description | Item | Size | Quantity |
|------|---|------------|-------|----------|
| 1 | NUT M10x1 H=6 CH=14 (FOR CO002- CI001) | 100.0224.A | 0 | 1 |
| 2 | TAB WASHER ø10,25xø15 - CO002 - XV1 | 100.0174.A | 0 | 1 |
| 3 | KEY PROTECTION XV1 | 590.0025.A | 0 | 1 |
| 4 | ø24 INTERNAL SNAP RING DIN 472 | 560.0015.A | 0 | 1 |
| 5 | OIL SEAL CORCOS BLUE 14 x 24 x 7/7.5 - BAB SL | 690.0027.A | 0 | 1 |
| 6 | WHITE GALVANISED SCREW TE M8x75 UNI 5737 8.8 | 531.0008.A | L075 | 4 |
| 7 | XV1 ø30 FLANGE (for shaft ø14) | 100.0264.A | 0 | 1 |
| 8 | INJECTION-MOLDED SEAL XV1 (NBR 70÷75 SH) | 100.0247.C | 0 | 2 |
| 9 | XV1 BACK-UP ELEMENT FOR BALANCING | 100.0248.A | 0 | 2 |
| 10 | XV1 BUSH H=19 | 100.0502.A | 0 | 1 |
| 11 | PIN ø3x9,8 | 570.0005.A | 0 | 4 |
| 12 | FLANGED BODY 30-M6 - 30-M6 - cc=3,8 | 100.0020.A | H52 | 1 |
| 13 | PLASTIC PLUG ø12,5 | 580.0001.A | D12,5 | 2 |
| 14 | CO002 - TAPERED 1÷8 DRIVING GEAR | 100.0026.A | CC3,8 | 1 |
| 15 | WOODRUFF KEY ø13x3 H=5 | 100.0171.A | 0 | 1 |
| 16 | COND2 - PERFORATED DRIVEN GEAR | 100.0023.A | CC3,8 | 1 |
| 17 | XV1 BUSH H=19 | 100.0501.A | 0 | 1 |
| 18 | NEUTRAL XV1 COVER W/DRAINAGE 1/4" BSP | 100.0274.X | F1ZZA | 1 |
| 19 | WHITE GALVANISED NUT M8 H=6 UNI 5588 | 540.0040.A | 0 | 4 |
| 20 | PLASTIC PLUG ø12 | 580.0001.A | D12 | 1 |

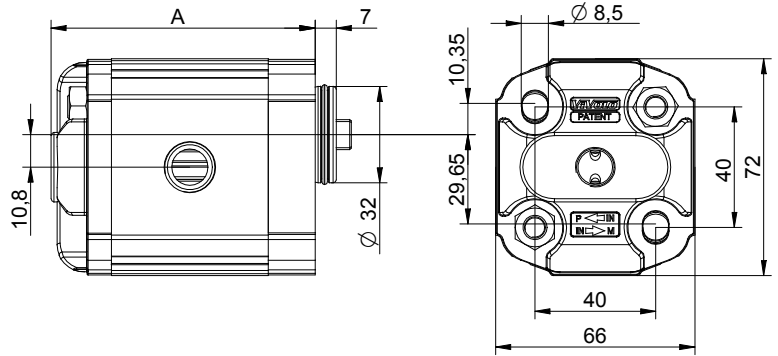
Table of variations

These two pages provide an overview of all the possible variations for customising a pump with a ø32 "BH" body-Shaped flange.

By filling in the missing data you can obtain the complete code of the product to be customised.



| | | |
|--------------|-----------|------------------|
| Series | X | series XV |
| Group | 1 | group 1 |
| Category | M | reversible motor |
| Displacement | | |
| Flange | | |
| Shaft | | |
| Body | IN OUT | |
| Cover | | |



ø32 "BH" Body-Shaped FLANGE

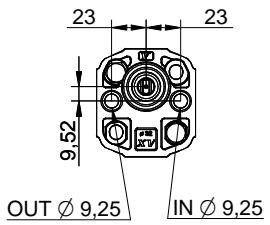
Shaft

| Code |
|------|
| 25 |



| Code | Code |
|----------------------|-----------------|
| CF002 - Milled shank | CO001 - Tapered |
| | |
| D | F |

| |
|----|
| 28 |
|----|



| | |
|-----------------|-----------------|
| SCF02 - Splined | SCF04 - Splined |
| | |
| L | J |

| | |
|-----------------|-----------------|
| SCF01 - Splined | SCF03 - Splined |
| | |
| Q | R |

Table of variations

| Displacement | | |
|--------------|------|-------|
| TYPE | CODE | A |
| | | mm |
| XV-1M/0.9 | 16 | 77,1 |
| XV-1M/1.2 | 17 | 78,0 |
| XV-1M/1.7 | 18 | 79,5 |
| XV-1M/2.2 | 20 | 81,5 |
| XV-1M/2.6 | 21 | 83,5 |
| XV-1M/3.2 | 23 | 85,5 |
| XV-1M/3.8 | 25 | 87,5 |
| XV-1M/4.3 | 27 | 89,5 |
| XV-1M/4.9 | 29 | 92,5 |
| XV-1M/5.9 | 31 | 96,0 |
| XV-1M/6.5 | 32 | 97,5 |
| XV-1M/7.8 | 34 | 102,5 |
| XV-1M/9.8 | 36 | 111,5 |

| Standard bodies | | | | |
|-------------------------|------------------|-------|-------|-------|
| Displacement cm3/rev | Standard threads | | | |
| | 0.9 | I - I | B - B | J - J |
| 1.2 | I - I | B - B | J - J | Z - Z |
| 1.7 | I - I | B - B | J - J | Z - Z |
| 2.2 | I - I | B - B | J - J | Z - Z |
| 2.6 | I - I | B - B | J - J | Z - Z |
| 3.2 | I - I | B - B | J - J | Z - Z |
| 3.8 | I - I | B - B | J - J | Z - Z |
| 4.3 | I - I | B - B | J - J | Z - Z |
| 4.9 | I - I | B - B | J - J | Z - Z |
| 5.9 | I - I | B - B | J - J | Z - Z |
| 6.5 | I - I | B - B | J - J | Z - Z |
| 7.8 | I - I | B - B | J - J | Z - Z |
| 9.8 | I - I | B - B | J - J | Z - Z |

Table showing standard flange and thread combinations available in stock

Body (threads/flanges)

| | | | | | |
|--|---|-------------|---|---|---|
| | A | | B | | C |
| | D | | E | | F |
| | G | | H | | I |
| | J | Closed Body | | Z | |

| Cover | | Code |
|------------------------------|--|------|
| | | E |
| External drainage | | |
| | | F |
| Internal drainage | | |
| | | K |
| IN + OUT + external drainage | | |
| | | L |
| IN + OUT + internal drainage | | |

reversible motor - series XV

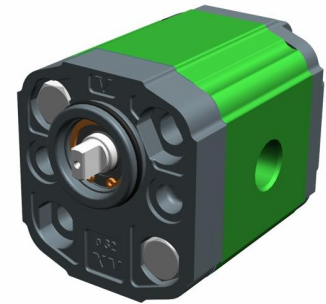
XV-1M

BH TYPE MOTOR W/ BODY INLET AND OUTLET
 ø32 BODY-SHAPED FLANGE - MILLED SHANK



X 1 M 25 25 D B B E

| | | |
|--------------|-----|----------------------------------|
| Series | X | series XV |
| Group | 1 | group 1 |
| Category | M | reversible motor |
| Displacement | 25 | 3.8 |
| Flange | 25 | Ø32 BH reversible rotation |
| Shaft | D | CF002 - Milled shank ø10 - thk.5 |
| Body | IN | inlet - 3/8" GAS |
| | OUT | outlet - 3/8" GAS |
| Cover | E | with drainage 1/4" BSP |



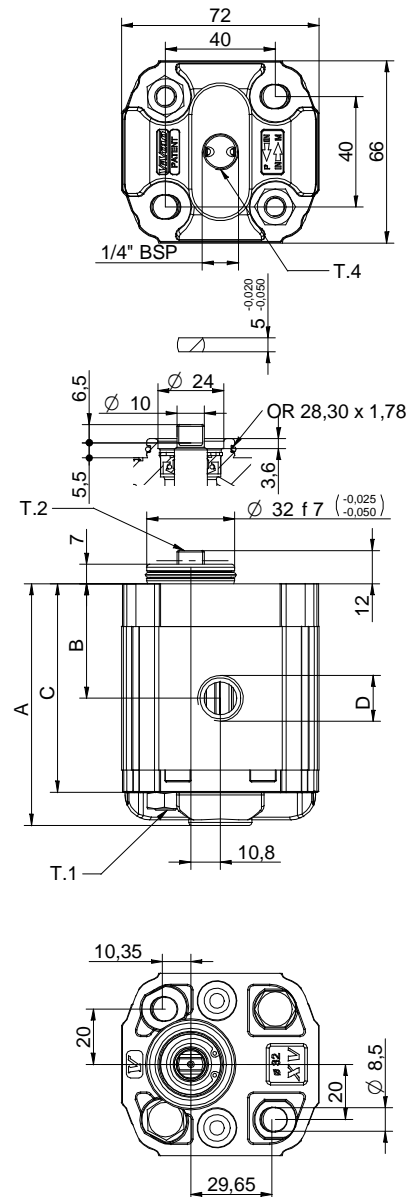
Reference **XM119**

| Technical data table | | | | | | |
|----------------------|-------------------------|---------------|--------|---------------------|---------------------|-------------------|
| TYPE | Displacement cm3/rev | Max. Pressure | | CODE | | |
| | | P1 bar | P3 bar | External drainage | | Internal drainage |
| XV-1M/0.9 | 0,91 | 240 | 280 | X 1 M 16 25 D B B E | X 1 M 16 25 D B B F | |
| XV-1M/1.2 | 1,17 | 250 | 290 | X 1 M 17 25 D B B E | X 1 M 17 25 D B B F | |
| XV-1M/1.7 | 1,56 | 250 | 290 | X 1 M 18 25 D B B E | X 1 M 18 25 D B B F | |
| XV-1M/2.2 | 2,08 | 250 | 290 | X 1 M 20 25 D B B E | X 1 M 20 25 D B B F | |
| XV-1M/2.6 | 2,60 | 250 | 300 | X 1 M 21 25 D B B E | X 1 M 21 25 D B B F | |
| XV-1M/3.2 | 3,12 | 250 | 300 | X 1 M 23 25 D B B E | X 1 M 23 25 D B B F | |
| XV-1M/3.8 | 3,64 | 250 | 300 | X 1 M 25 25 D B B E | X 1 M 25 25 D B B F | |
| XV-1M/4.3 | 4,16 | 250 | 300 | X 1 M 27 25 D B B E | X 1 M 27 25 D B B F | |
| XV-1M/4.9 | 4,94 | 250 | 300 | X 1 M 29 25 D B B E | X 1 M 29 25 D B B F | |
| XV-1M/5.9 | 5,85 | 250 | 300 | X 1 M 31 25 D B B E | X 1 M 31 25 D B B F | |
| XV-1M/6.5 | 6,50 | 250 | 300 | X 1 M 32 25 D B B E | X 1 M 32 25 D B B F | |
| XV-1M/7.8 | 7,54 | 220 | 260 | X 1 M 34 25 D B B E | X 1 M 34 25 D B B F | |
| XV-1M/9.8 | 9,88 | 190 | 230 | X 1 M 36 25 D B B E | X 1 M 36 25 D B B F | |

P1) Max. working pressure - P3) Max. peak pressure

For heavy-duty applications, it is recommended to check the admissible torque of the shaft

| Dimensions table | | | | | | |
|------------------|--------------|-------|------|------|-----------|-----------|
| TYPE | Weight kg | A | B | C | D | D |
| | | mm | mm | mm | IN | OUT |
| XV-1M/0.9 | 0,950 | 77,1 | 36,3 | 65,1 | 3/8" BSPP | 3/8" BSPP |
| XV-1M/1.2 | 0,970 | 78,0 | 36,8 | 66,0 | 3/8" BSPP | 3/8" BSPP |
| XV-1M/1.7 | 1,010 | 79,5 | 37,5 | 67,5 | 3/8" BSPP | 3/8" BSPP |
| XV-1M/2.2 | 1,030 | 81,5 | 38,5 | 69,5 | 3/8" BSPP | 3/8" BSPP |
| XV-1M/2.6 | 1,060 | 83,5 | 39,5 | 71,5 | 3/8" BSPP | 3/8" BSPP |
| XV-1M/3.2 | 1,090 | 85,5 | 40,5 | 73,5 | 3/8" BSPP | 3/8" BSPP |
| XV-1M/3.8 | 1,120 | 87,5 | 41,5 | 75,5 | 3/8" BSPP | 3/8" BSPP |
| XV-1M/4.3 | 1,170 | 89,5 | 42,5 | 77,5 | 3/8" BSPP | 3/8" BSPP |
| XV-1M/4.9 | 1,200 | 92,5 | 44,0 | 80,5 | 3/8" BSPP | 3/8" BSPP |
| XV-1M/5.9 | 1,260 | 96,0 | 45,8 | 84,0 | 3/8" BSPP | 3/8" BSPP |
| XV-1M/6.5 | 1,300 | 97,5 | 47,0 | 85,5 | 3/8" BSPP | 3/8" BSPP |
| XV-1M/7.8 | 1,360 | 102,5 | 49,0 | 90,5 | 3/8" BSPP | 3/8" BSPP |
| XV-1M/9.8 | 1,500 | 111,5 | 53,5 | 99,5 | 3/8" BSPP | 3/8" BSPP |



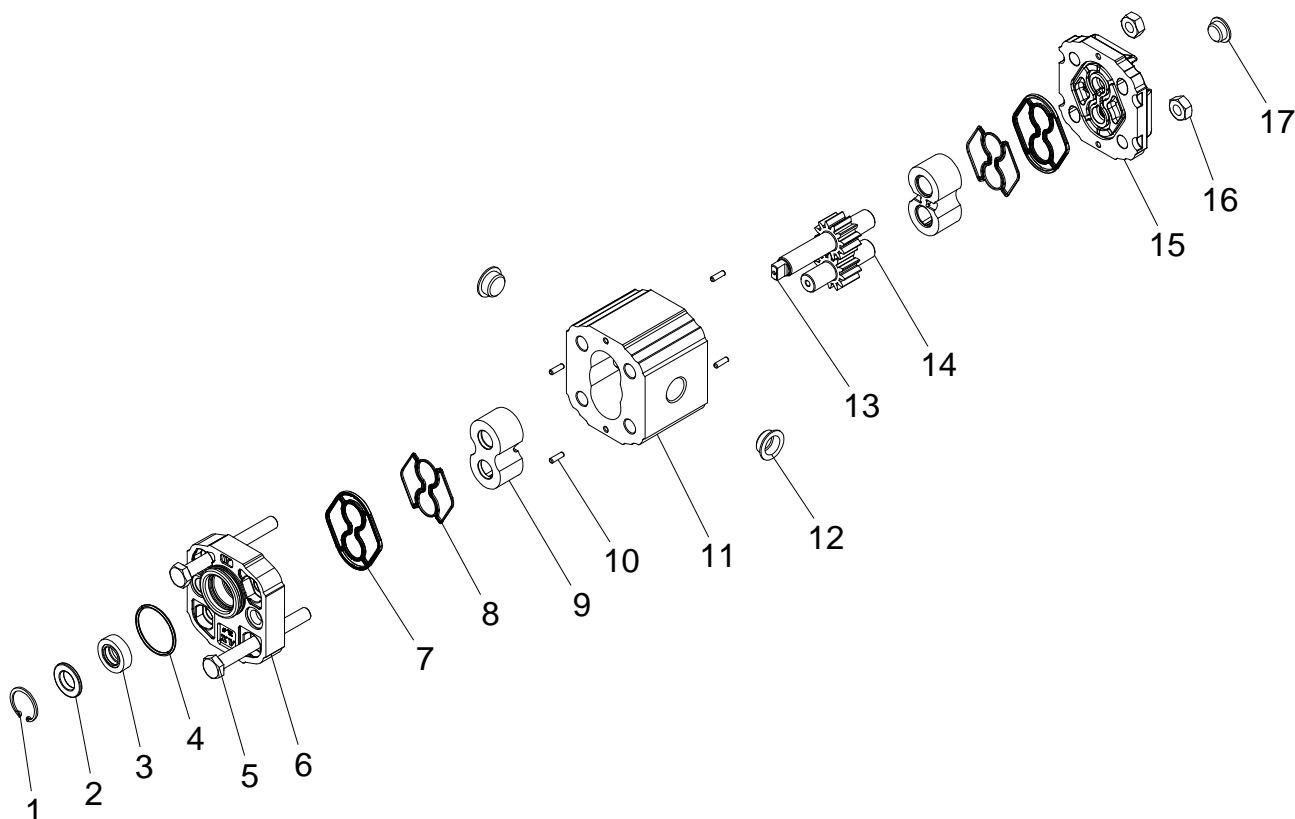
0103/04 X1R2525088E.dft

T.1 = 24.5÷29.4 [Nm] - screw tightening torque M8

T.2 = 13.8 [Nm] - admissible shaft torque (N.B. When choosing a shaft, always check the admissible torque).

T.4 = 0.3÷0.5 bar - max. drainage pressure

Example of ordering code:

X1M2525DBBE XV1M/3.8 - Ø32 BH /R - CF002 - 3/8" BSP - 3/8" BSP - Dren. est.

Basic list

| Pos. | Item description | Item | Size | Quantity |
|------|--|------------|-------|----------|
| 1 | ø22 INTERNAL SNAP RING DIN 472 | 560.0010.A | 0 | 1 |
| 2 | BACK UP WASHER OIL SEAL XV1M | 100.0145.A | 0 | 1 |
| 3 | OIL SEAL 12 X 22 X 5 SC | 690.0070.A | 0 | 1 |
| 4 | OR 28.30 x 1.78 | 640.0040.A | 0 | 1 |
| 5 | WHITE GALVANISED SCREW TE M8x75 UNI 5737 8.8 | 531.0008.A | L075 | 2 |
| 6 | XV1 ø32 BH-HY FLANGE | 100.0271.A | 0 | 1 |
| 7 | INJECTION-MOLDED SEAL XV1 (NBR 70÷75 SH) | 100.0247.C | 0 | 2 |
| 8 | XV1 BACK-UP ELEMENT FOR BALANCING | 100.0248.A | 0 | 2 |
| 9 | XV1 BUSH H=19 | 100.0501.A | 0 | 2 |
| 10 | PIN ø3x9,8 | 570.0005.A | 0 | 4 |
| 11 | BODY W/THREAD 3/8" - 3/8" BSP - BH - cc=3,8 | 100.0067.B | H52 | 1 |
| 12 | PLASTIC PLUG ø15,5 | 580.0001.A | D15,5 | 2 |
| 13 | CF002 - DRIVING GEAR MILLED SHANK | 100.0027.A | CC3,8 | 1 |
| 14 | COND2 - PERFORATED DRIVEN GEAR | 100.0023.A | CC3,8 | 1 |
| 15 | NEUTRAL XV1 COVER W/DRAINAGE 1/4" BSP | 100.0274.X | F1ZZA | 1 |
| 16 | WHITE GALVANISED NUT M8 H=6 UNI 5588 | 540.0040.A | 0 | 2 |
| 17 | PLASTIC PLUG ø12 | 580.0001.A | D12 | 1 |

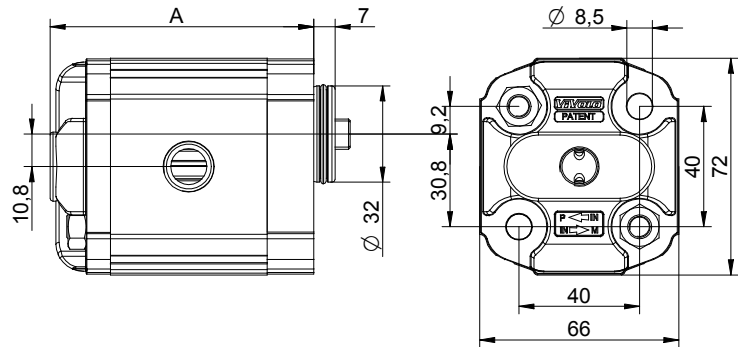
Table of variations

These two pages provide an overview of all the possible variations for customising a pump with a ø32 "HY" body-Shaped flange.

By filling in the missing data you can obtain the complete code of the product to be customised.



| | | |
|--------------|-----------|------------------|
| Series | X | series XV |
| Group | 1 | group 1 |
| Category | M | reversible motor |
| Displacement | | |
| Flange | | |
| Shaft | | |
| Body | IN OUT | |
| Cover | | |



ø32 "HY" Body-Shaped FLANGE

| Code |
|------|
| 31 |

| |
|----|
| 34 |
|----|

Shaft

| Code | Code |
|------|------|
| D | F |

CF002 - Milled shank

CO001 - Tapered

| | |
|---|---|
| L | J |
|---|---|

SCF02 - Splined

SCF04 - Splined

| | |
|---|---|
| Q | R |
|---|---|

SCF01 - Splined

SCF03 - Splined

Table of variations

| Displacement | | |
|--------------|------|-------|
| TYPE | CODE | A |
| | | mm |
| XV-1M/0.9 | 16 | 77,1 |
| XV-1M/1.2 | 17 | 78,0 |
| XV-1M/1.7 | 18 | 79,5 |
| XV-1M/2.2 | 20 | 81,5 |
| XV-1M/2.6 | 21 | 83,5 |
| XV-1M/3.2 | 23 | 85,5 |
| XV-1M/3.8 | 25 | 87,5 |
| XV-1M/4.3 | 27 | 89,5 |
| XV-1M/4.9 | 29 | 92,5 |
| XV-1M/5.9 | 31 | 96,0 |
| XV-1M/6.5 | 32 | 97,5 |
| XV-1M/7.8 | 34 | 102,5 |
| XV-1M/9.8 | 36 | 111,5 |

| Standard bodies | | | | |
|-------------------------|------------------|-------|-------|-------|
| Displacement cm3/rev | Standard threads | | | |
| | 0.9 | I - I | B - B | J - J |
| 1.2 | I - I | B - B | J - J | Z - Z |
| 1.7 | I - I | B - B | J - J | Z - Z |
| 2.2 | I - I | B - B | J - J | Z - Z |
| 2.6 | I - I | B - B | J - J | Z - Z |
| 3.2 | I - I | B - B | J - J | Z - Z |
| 3.8 | I - I | B - B | J - J | Z - Z |
| 4.3 | I - I | B - B | J - J | Z - Z |
| 4.9 | I - I | B - B | J - J | Z - Z |
| 5.9 | I - I | B - B | J - J | Z - Z |
| 6.5 | I - I | B - B | J - J | Z - Z |
| 7.8 | I - I | B - B | J - J | Z - Z |
| 9.8 | I - I | B - B | J - J | Z - Z |

Table showing standard flange and thread combinations available in stock

Body (threads/flanges)

| | | | | | |
|--|---|-------------|---|---|---|
| | A | | B | | C |
| | D | | E | | F |
| | G | | H | | I |
| | J | Closed Body | | Z | |

| Cover | | Code |
|------------------------------|--|------|
| | | E |
| External drainage | | |
| | | F |
| Internal drainage | | |
| | | K |
| IN + OUT + external drainage | | |
| | | L |
| IN + OUT + internal drainage | | |

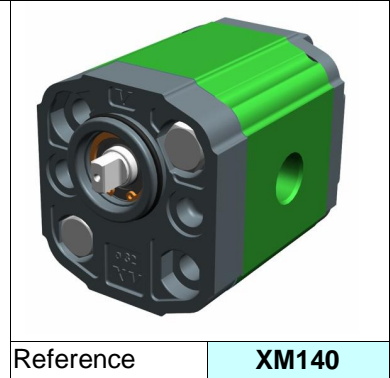
reversible motor - series XV

XV-1M

HY TYPE MOTOR W/ BODY INLET AND OUTLET
 ø32 BODY-SHAPED FLANGE - MILLED SHANK



| | | | | | | | | |
|--------------|--|---------------------|-----------|-----------|----------|----------|----------|----------|
| X | 1 | M | 25 | 31 | D | B | B | E |
| Series | X series XV | | | | | | | |
| Group | 1 group 1 | | | | | | | |
| Category | M reversible motor | | | | | | | |
| Displacement | 25 3.8 | | | | | | | |
| Flange | 31 Ø32 HY reversible rotation with inlet | | | | | | | |
| Shaft | D CF002 - Milled shank ø10 - thk.5 | | | | | | | |
| Body | IN | B inlet - 3/8" GAS | | | | | | |
| | OUT | B outlet - 3/8" GAS | | | | | | |
| Cover | E with drainage 1/4" BSP | | | | | | | |

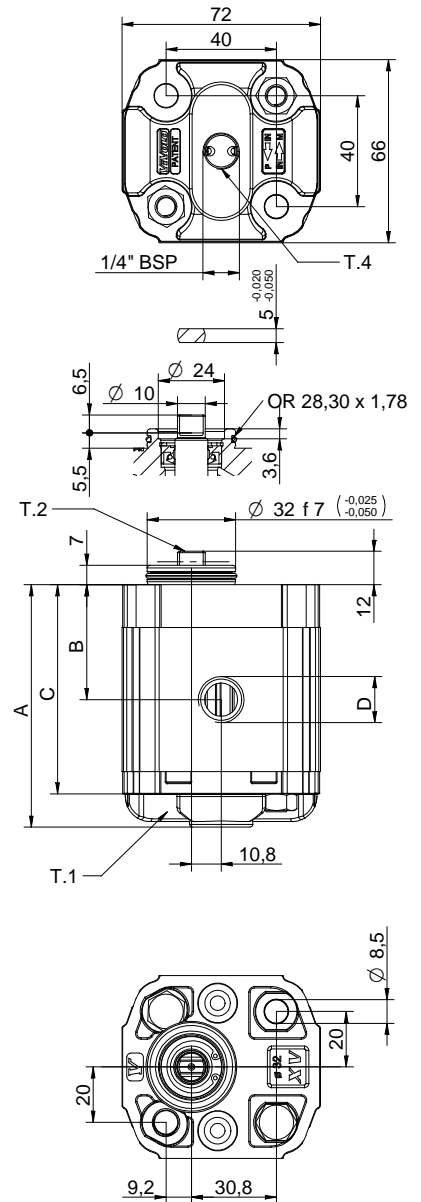


Reference **XM140**

| Technical data table | | | | | | | | | | | | | | | | | | | | | |
|----------------------|-------------------------|---------------|--------|-------------------|---|---|-------------------|----|---|---|---|---|---|---|---|----|----|---|---|---|---|
| TYPE | Displacement cm3/rev | Max. Pressure | | CODE | | | | | | | | | | | | | | | | | |
| | | P1 bar | P3 bar | External drainage | | | Internal drainage | | | | | | | | | | | | | | |
| XV-1M/0.9 | 0,91 | 240 | 280 | X | 1 | M | 16 | 31 | D | B | B | E | X | 1 | M | 16 | 31 | D | B | B | F |
| XV-1M/1.2 | 1,17 | 250 | 290 | X | 1 | M | 17 | 31 | D | B | B | E | X | 1 | M | 17 | 31 | D | B | B | F |
| XV-1M/1.7 | 1,56 | 250 | 290 | X | 1 | M | 18 | 31 | D | B | B | E | X | 1 | M | 18 | 31 | D | B | B | F |
| XV-1M/2.2 | 2,08 | 250 | 290 | X | 1 | M | 20 | 31 | D | B | B | E | X | 1 | M | 20 | 31 | D | B | B | F |
| XV-1M/2.6 | 2,60 | 250 | 300 | X | 1 | M | 21 | 31 | D | B | B | E | X | 1 | M | 21 | 31 | D | B | B | F |
| XV-1M/3.2 | 3,12 | 250 | 300 | X | 1 | M | 23 | 31 | D | B | B | E | X | 1 | M | 23 | 31 | D | B | B | F |
| XV-1M/3.8 | 3,64 | 250 | 300 | X | 1 | M | 25 | 31 | D | B | B | E | X | 1 | M | 25 | 31 | D | B | B | F |
| XV-1M/4.3 | 4,16 | 250 | 300 | X | 1 | M | 27 | 31 | D | B | B | E | X | 1 | M | 27 | 31 | D | B | B | F |
| XV-1M/4.9 | 4,94 | 250 | 300 | X | 1 | M | 29 | 31 | D | B | B | E | X | 1 | M | 29 | 31 | D | B | B | F |
| XV-1M/5.9 | 5,85 | 250 | 300 | X | 1 | M | 31 | 31 | D | B | B | E | X | 1 | M | 31 | 31 | D | B | B | F |
| XV-1M/6.5 | 6,50 | 250 | 300 | X | 1 | M | 32 | 31 | D | B | B | E | X | 1 | M | 32 | 31 | D | B | B | F |
| XV-1M/7.8 | 7,54 | 220 | 260 | X | 1 | M | 34 | 31 | D | B | B | E | X | 1 | M | 34 | 31 | D | B | B | F |
| XV-1M/9.8 | 9,88 | 190 | 230 | X | 1 | M | 36 | 31 | D | B | B | E | X | 1 | M | 36 | 31 | D | B | B | F |

P1) Max. working pressure - P3) Max. peak pressure
 For heavy-duty applications, it is recommended to check the admissible torque of the shaft

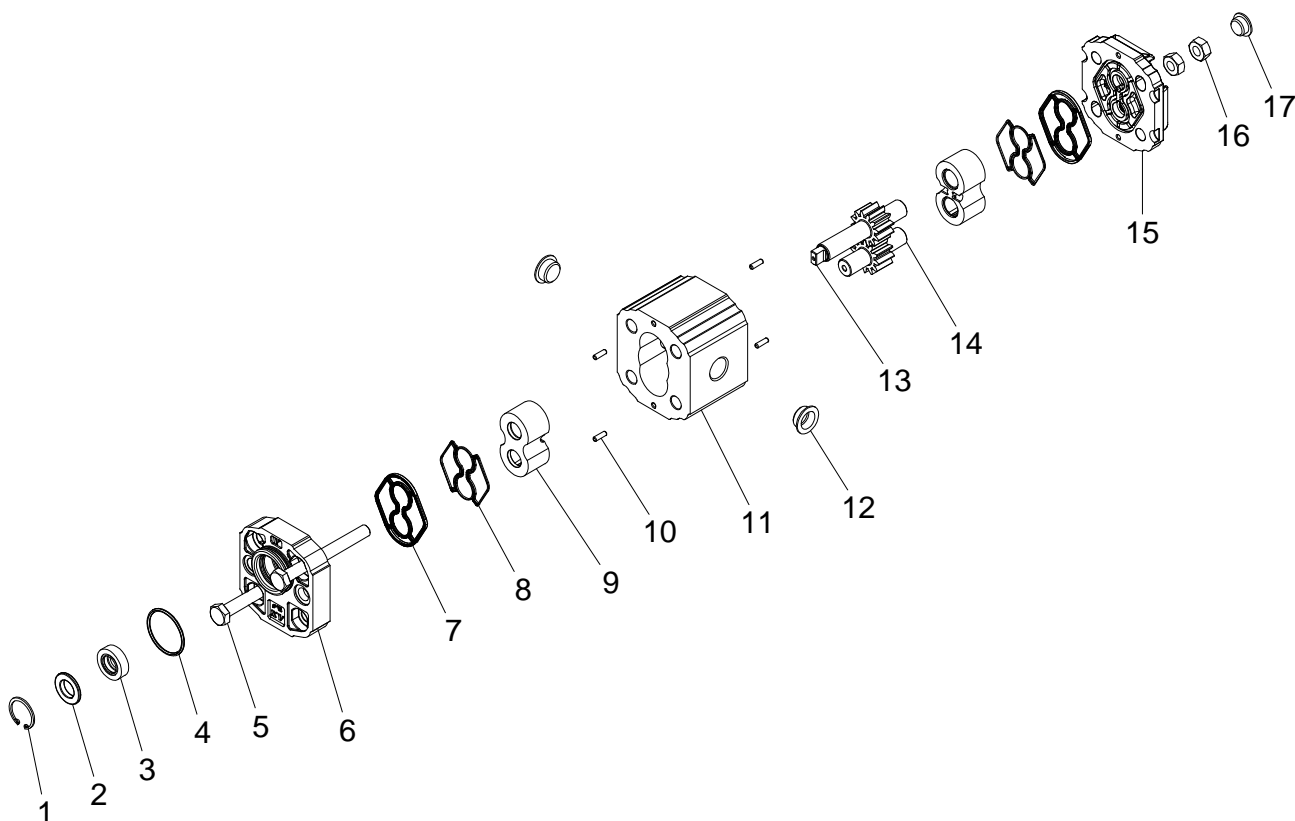
| Dimensions table | | | | | | |
|------------------|--------------|-------|------|------|-----------|-----------|
| TYPE | Weight kg | A | B | C | D | D |
| | | mm | mm | mm | IN | OUT |
| XV-1M/0.9 | 0,950 | 77,1 | 36,3 | 65,1 | 3/8" BSPP | 3/8" BSPP |
| XV-1M/1.2 | 0,970 | 78,0 | 36,8 | 66,0 | 3/8" BSPP | 3/8" BSPP |
| XV-1M/1.7 | 1,010 | 79,5 | 37,5 | 67,5 | 3/8" BSPP | 3/8" BSPP |
| XV-1M/2.2 | 1,030 | 81,5 | 38,5 | 69,5 | 3/8" BSPP | 3/8" BSPP |
| XV-1M/2.6 | 1,060 | 83,5 | 39,5 | 71,5 | 3/8" BSPP | 3/8" BSPP |
| XV-1M/3.2 | 1,090 | 85,5 | 40,5 | 73,5 | 3/8" BSPP | 3/8" BSPP |
| XV-1M/3.8 | 1,120 | 87,5 | 41,5 | 75,5 | 3/8" BSPP | 3/8" BSPP |
| XV-1M/4.3 | 1,170 | 89,5 | 42,5 | 77,5 | 3/8" BSPP | 3/8" BSPP |
| XV-1M/4.9 | 1,200 | 92,5 | 44,0 | 80,5 | 3/8" BSPP | 3/8" BSPP |
| XV-1M/5.9 | 1,260 | 96,0 | 45,8 | 84,0 | 3/8" BSPP | 3/8" BSPP |
| XV-1M/6.5 | 1,300 | 97,5 | 47,0 | 85,5 | 3/8" BSPP | 3/8" BSPP |
| XV-1M/7.8 | 1,360 | 102,5 | 49,0 | 90,5 | 3/8" BSPP | 3/8" BSPP |
| XV-1M/9.8 | 1,500 | 111,5 | 53,5 | 99,5 | 3/8" BSPP | 3/8" BSPP |



T.1 = 24.5÷29.4 [Nm] - screw tightening torque M8
 T.2 = 13.8 [Nm] - admissible shaft torque (N.B. When choosing a shaft, always check the admissible torque).
 T.4 = 0.3÷0.5 bar - max. drainage pressure

| | |
|-----------|--------------|
| Reference | XM140 |
|-----------|--------------|

Example of ordering code:

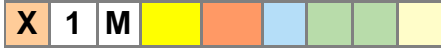
X1M2531DBBE XV1M/3.8 - Ø32 HY /R - CF002 - 3/8" BSP - 3/8" BSP - Dren. est.


| Basic list | | | | |
|------------|--|------------|-------|----------|
| Pos. | Item description | Item | Size | Quantity |
| 1 | ø22 INTERNAL SNAP RING DIN 472 | 560.0010.A | 0 | 1 |
| 2 | BACK UP WASHER OIL SEAL XV1M | 100.0145.A | 0 | 1 |
| 3 | OIL SEAL 12 X 22 X 5 SC | 690.0070.A | 0 | 1 |
| 4 | OR 28.30 x 1.78 | 640.0040.A | 0 | 1 |
| 5 | WHITE GALVANISED SCREW TE M8x75 UNI 5737 8.8 | 531.0008.A | L075 | 2 |
| 6 | XV1 ø32 BH-HY FLANGE | 100.0271.A | 0 | 1 |
| 7 | INJECTION-MOLDED SEAL XV1 (NBR 70÷75 SH) | 100.0247.C | 0 | 2 |
| 8 | XV1 BACK-UP ELEMENT FOR BALANCING | 100.0248.A | 0 | 2 |
| 9 | XV1 BUSH H=19 | 100.0501.A | 0 | 2 |
| 10 | PIN ø3x9,8 | 570.0005.A | 0 | 4 |
| 11 | BODY W/THREAD 3/8" - 3/8" BSP - cc=3,8 | 100.0067.A | H52 | 1 |
| 12 | PLASTIC PLUG ø15,5 | 580.0001.A | D15,5 | 2 |
| 13 | CF002 - DRIVING GEAR MILLED SHANK | 100.0027.A | CC3,8 | 1 |
| 14 | COND2 - PERFORATED DRIVEN GEAR | 100.0023.A | CC3,8 | 1 |
| 15 | NEUTRAL XV1 COVER W/DRAINAGE 1/4" BSP | 100.0274.X | F1ZZA | 1 |
| 16 | WHITE GALVANISED NUT M8 H=6 UNI 5588 | 540.0040.A | 0 | 2 |
| 17 | PLASTIC PLUG ø12 | 580.0001.A | D12 | 1 |

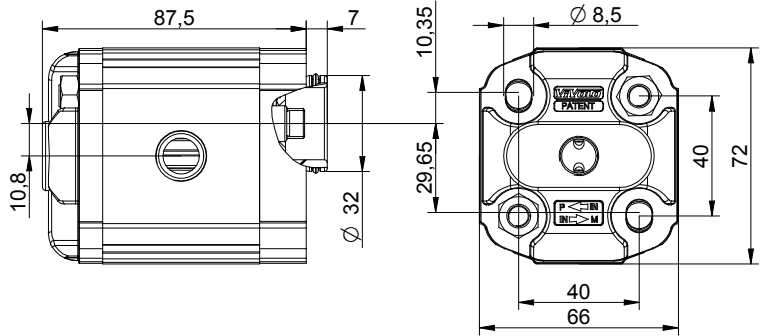
Table of variations

These two pages provide an overview of all the possible variations for customising a pump with a $\varnothing 32$ "BH" Standard German flange.

By filling in the missing data you can obtain the complete code of the product to be customised.



| | | |
|--------------|-----------|------------------|
| Series | X | series XV |
| Group | 1 | group 1 |
| Category | M | reversible motor |
| Displacement | | |
| Flange | | |
| Shaft | | |
| Body | IN OUT | |
| Cover | | |



| Standard German $\varnothing 32$ "BH" FLANGE | | Shaft | |
|--|------|---|---|
| | Code | | Code |
| | 19 | CF001 - Milled shank T.2 = 13.8 [Nm] | SCF01 - Splined $m=0,75$ $Z=15$ T.2 = 42.8 [Nm] |
| | | SCF03 - Splined $m=0,75$ $Z=15$ T.2 = 42.8 [Nm] | Z |

Table of variations

| Displacement | | |
|--------------|------|-------|
| TYPE | CODE | A |
| | | mm |
| XV-1M/0.9 | 16 | 77,1 |
| XV-1M/1.2 | 17 | 78,0 |
| XV-1M/1.7 | 18 | 79,5 |
| XV-1M/2.2 | 20 | 81,5 |
| XV-1M/2.6 | 21 | 83,5 |
| XV-1M/3.2 | 23 | 85,5 |
| XV-1M/3.8 | 25 | 87,5 |
| XV-1M/4.3 | 27 | 89,5 |
| XV-1M/4.9 | 29 | 92,5 |
| XV-1M/5.9 | 31 | 96,0 |
| XV-1M/6.5 | 32 | 97,5 |
| XV-1M/7.8 | 34 | 102,5 |
| XV-1M/9.8 | 36 | 111,5 |

| Standard bodies | | | | |
|-------------------------|------------------|-------|-------|-------|
| Displacement cm3/rev | Standard threads | | | |
| | 0.9 | I - I | B - B | J - J |
| 1.2 | I - I | B - B | J - J | Z - Z |
| 1.7 | I - I | B - B | J - J | Z - Z |
| 2.2 | I - I | B - B | J - J | Z - Z |
| 2.6 | I - I | B - B | J - J | Z - Z |
| 3.2 | I - I | B - B | J - J | Z - Z |
| 3.8 | I - I | B - B | J - J | Z - Z |
| 4.3 | I - I | B - B | J - J | Z - Z |
| 4.9 | I - I | B - B | J - J | Z - Z |
| 5.9 | I - I | B - B | J - J | Z - Z |
| 6.5 | I - I | B - B | J - J | Z - Z |
| 7.8 | I - I | B - B | J - J | Z - Z |
| 9.8 | I - I | B - B | J - J | Z - Z |

Table showing standard flange and thread combinations available in stock

| Body (threads/flanges) | | | |
|------------------------|---|-------------|---|
| | A | | B |
| | C | | D |
| | E | | F |
| | G | | H |
| | I | | J |
| | J | Closed Body | Z |

| Cover | | Code |
|------------------------------|--|------|
| | | E |
| External drainage | | |
| | | F |
| Internal drainage | | |
| | | K |
| IN + OUT + external drainage | | |
| | | L |
| IN + OUT + internal drainage | | |

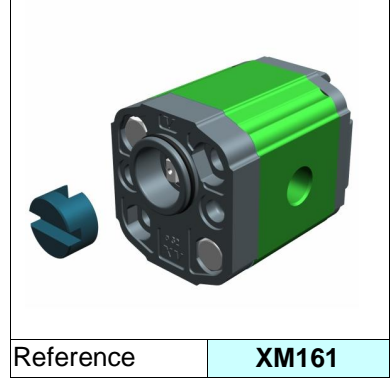
reversible motor - series XV

XV-1M

STANDARD GERMAN "BH" TYPE MOTOR W/ BODY INLET AND OUTLET
 ø32 BODY-SHAPED FLANGE - MILLED SHANK



| | | | | | | | | |
|--------------|---|---------------------|-----------|-----------|----------|----------|----------|----------|
| X | 1 | M | 25 | 19 | C | B | B | E |
| Series | X series XV | | | | | | | |
| Group | 1 group 1 | | | | | | | |
| Category | M reversible motor | | | | | | | |
| Displacement | 25 3.8 | | | | | | | |
| Flange | 19 Ø32 BH reversible rotation | | | | | | | |
| Shaft | C CF001 - Milled shank ø10 - thk.5 ("BH" Standard German) | | | | | | | |
| Body | IN | B inlet - 3/8" GAS | | | | | | |
| | OUT | B outlet - 3/8" GAS | | | | | | |
| Cover | E with drainage 1/4" BSP | | | | | | | |

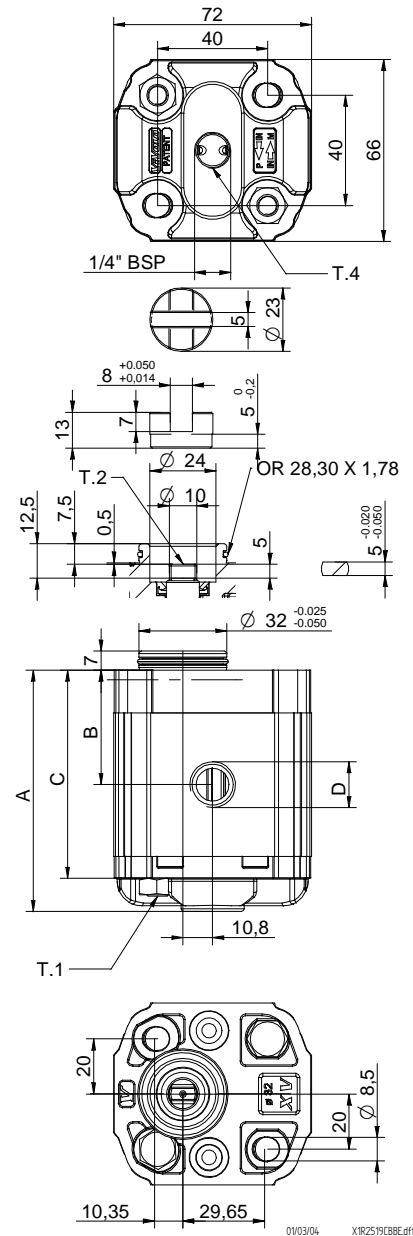


Reference **XM161**

| Technical data table | | | | | | | | | | | | | | | | | | | | | |
|----------------------|-------------------------|---------------|--------|-------------------|---|---|-------------------|----|---|---|---|---|---|---|---|----|----|---|---|---|---|
| TYPE | Displacement cm3/rev | Max. Pressure | | CODE | | | | | | | | | | | | | | | | | |
| | | P1 bar | P3 bar | External drainage | | | Internal drainage | | | | | | | | | | | | | | |
| XV-1M/0.9 | 0,91 | 240 | 280 | X | 1 | M | 16 | 19 | C | B | B | E | X | 1 | M | 16 | 19 | C | B | B | F |
| XV-1M/1.2 | 1,17 | 250 | 290 | X | 1 | M | 17 | 19 | C | B | B | E | X | 1 | M | 17 | 19 | C | B | B | F |
| XV-1M/1.7 | 1,56 | 250 | 290 | X | 1 | M | 18 | 19 | C | B | B | E | X | 1 | M | 18 | 19 | C | B | B | F |
| XV-1M/2.2 | 2,08 | 250 | 290 | X | 1 | M | 20 | 19 | C | B | B | E | X | 1 | M | 20 | 19 | C | B | B | F |
| XV-1M/2.6 | 2,60 | 250 | 300 | X | 1 | M | 21 | 19 | C | B | B | E | X | 1 | M | 21 | 19 | C | B | B | F |
| XV-1M/3.2 | 3,12 | 250 | 300 | X | 1 | M | 23 | 19 | C | B | B | E | X | 1 | M | 23 | 19 | C | B | B | F |
| XV-1M/3.8 | 3,64 | 250 | 300 | X | 1 | M | 25 | 19 | C | B | B | E | X | 1 | M | 25 | 19 | C | B | B | F |
| XV-1M/4.3 | 4,16 | 250 | 300 | X | 1 | M | 27 | 19 | C | B | B | E | X | 1 | M | 27 | 19 | C | B | B | F |
| XV-1M/4.9 | 4,94 | 250 | 300 | X | 1 | M | 29 | 19 | C | B | B | E | X | 1 | M | 29 | 19 | C | B | B | F |
| XV-1M/5.9 | 5,85 | 250 | 300 | X | 1 | M | 31 | 19 | C | B | B | E | X | 1 | M | 31 | 19 | C | B | B | F |
| XV-1M/6.5 | 6,50 | 250 | 300 | X | 1 | M | 32 | 19 | C | B | B | E | X | 1 | M | 32 | 19 | C | B | B | F |
| XV-1M/7.8 | 7,54 | 220 | 260 | X | 1 | M | 34 | 19 | C | B | B | E | X | 1 | M | 34 | 19 | C | B | B | F |
| XV-1M/9.8 | 9,88 | 190 | 230 | X | 1 | M | 36 | 19 | C | B | B | E | X | 1 | M | 36 | 19 | C | B | B | F |

P1) Max. working pressure - P3) Max. peak pressure
 For heavy-duty applications, it is recommended to check the admissible torque of the shaft

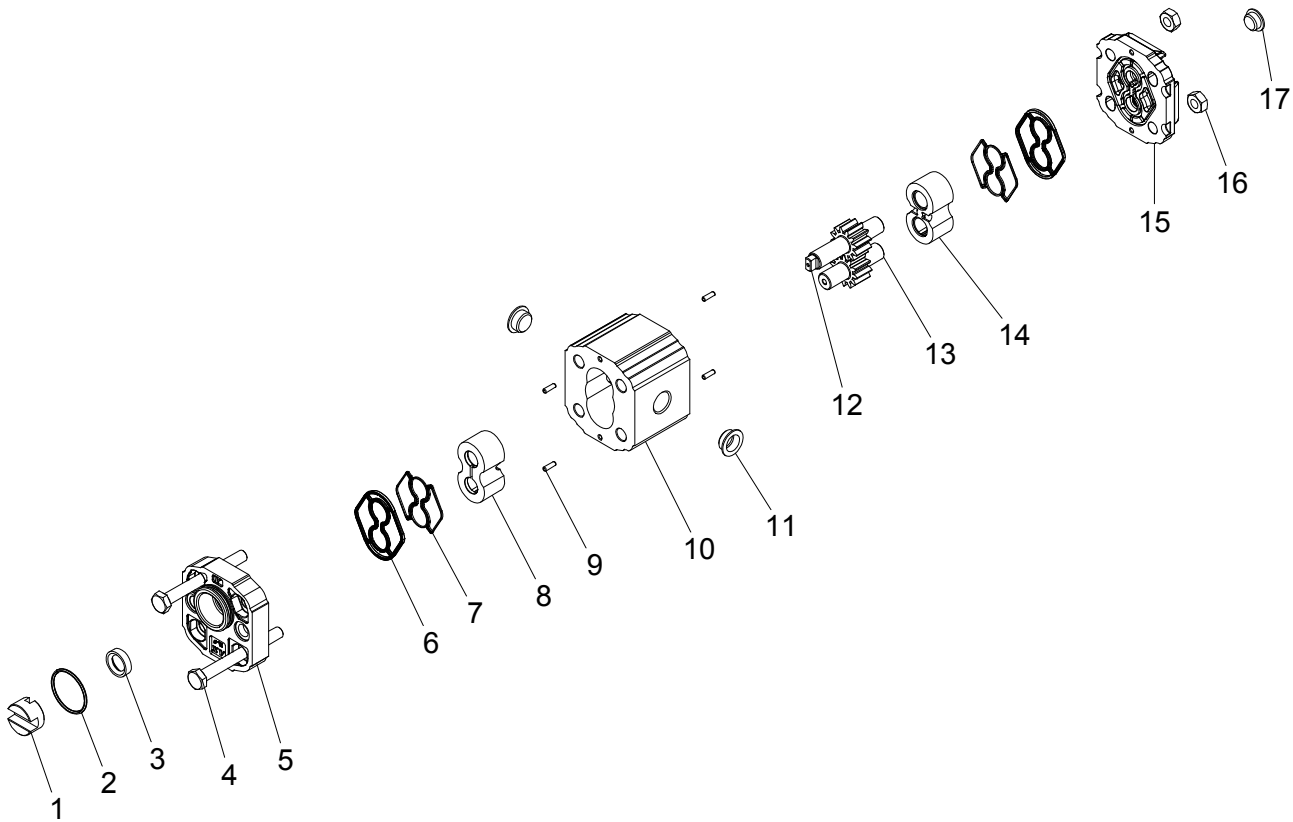
| Dimensions table | | | | | | |
|------------------|--------------|-------|------|------|-----------|-----------|
| TYPE | Weight kg | A | B | C | D | D |
| | | mm | mm | mm | IN | OUT |
| XV-1M/0.9 | 0,950 | 77,1 | 36,3 | 65,1 | 3/8" BSPP | 3/8" BSPP |
| XV-1M/1.2 | 0,970 | 78,0 | 36,8 | 66,0 | 3/8" BSPP | 3/8" BSPP |
| XV-1M/1.7 | 1,010 | 79,5 | 37,5 | 67,5 | 3/8" BSPP | 3/8" BSPP |
| XV-1M/2.2 | 1,030 | 81,5 | 38,5 | 69,5 | 3/8" BSPP | 3/8" BSPP |
| XV-1M/2.6 | 1,060 | 83,5 | 39,5 | 71,5 | 3/8" BSPP | 3/8" BSPP |
| XV-1M/3.2 | 1,090 | 85,5 | 40,5 | 73,5 | 3/8" BSPP | 3/8" BSPP |
| XV-1M/3.8 | 1,120 | 87,5 | 41,5 | 75,5 | 3/8" BSPP | 3/8" BSPP |
| XV-1M/4.3 | 1,170 | 89,5 | 42,5 | 77,5 | 3/8" BSPP | 3/8" BSPP |
| XV-1M/4.9 | 1,200 | 92,5 | 44,0 | 80,5 | 3/8" BSPP | 3/8" BSPP |
| XV-1M/5.9 | 1,260 | 96,0 | 45,8 | 84,0 | 3/8" BSPP | 3/8" BSPP |
| XV-1M/6.5 | 1,300 | 97,5 | 47,0 | 85,5 | 3/8" BSPP | 3/8" BSPP |
| XV-1M/7.8 | 1,360 | 102,5 | 49,0 | 90,5 | 3/8" BSPP | 3/8" BSPP |
| XV-1M/9.8 | 1,500 | 111,5 | 53,5 | 99,5 | 3/8" BSPP | 3/8" BSPP |



T.1 = 24.5÷29.4 [Nm] - screw tightening torque M8
 T.2 = 13.8 [Nm] - admissible shaft torque (N.B. When choosing a shaft, always check the admissible torque).
 T.4 = 0.3÷0.5 bar - max. drainage pressure

| | |
|-----------|--------------|
| Reference | XM161 |
|-----------|--------------|

Example of ordering code:

X1M2519CBBE XV1M/3.8 - Ø32 BH /R - CF001 - 3/8" BSP - 3/8" BSP - Dren. est.


| Basic list | | | | |
|------------|---|------------|-------|----------|
| Pos. | Item description | Item | Size | Quantity |
| 1 | STANDARD SLOTTED COUPLING (MILLED 5-8) - ø32 FLANGE | 100.0057.A | 0 | 1 |
| 2 | OR 28.30 x 1.78 | 640.0040.A | 0 | 1 |
| 3 | OIL SEAL 12 x 19 x 5 SC (BA) FKM | 690.0016.A | 0 | 1 |
| 4 | WHITE GALVANISED SCREW TE M8x75 UNI 5737 8.8 | 531.0008.A | L075 | 2 |
| 5 | XV1 ø32 BH-HY FLANGE FOR CF001 | 100.0272.X | 0 | 1 |
| 6 | INJECTION-MOLDED SEAL XV1 (NBR 70÷75 SH) | 100.0247.C | 0 | 2 |
| 7 | XV1 BACK-UP ELEMENT FOR BALANCING | 100.0248.A | 0 | 2 |
| 8 | XV1 BUSH H=19 (with channel) | 100.0001.A | 0 | 1 |
| 9 | PIN ø3x9,8 | 570.0005.A | 0 | 4 |
| 10 | BODY W/THREAD 3/8" - 3/8" BSP - BH - cc=3,8 | 100.0067.B | H52 | 1 |
| 11 | PLASTIC PLUG ø15,5 | 580.0001.A | D15,5 | 2 |
| 12 | CF001 - DRIVING GEAR MILLED SHANK | 100.0037.A | CC3,8 | 1 |
| 13 | COND2 - PERFORATED DRIVEN GEAR | 100.0023.A | CC3,8 | 1 |
| 14 | XV1 BUSH H=19 | 100.0501.A | 0 | 1 |
| 15 | NEUTRAL XV1 COVER W/DRAINAGE 1/4" BSP | 100.0274.X | F1ZZA | 1 |
| 16 | WHITE GALVANISED NUT M8 H=6 UNI 5588 | 540.0040.A | 0 | 2 |
| 17 | PLASTIC PLUG ø12 | 580.0001.A | D12 | 1 |

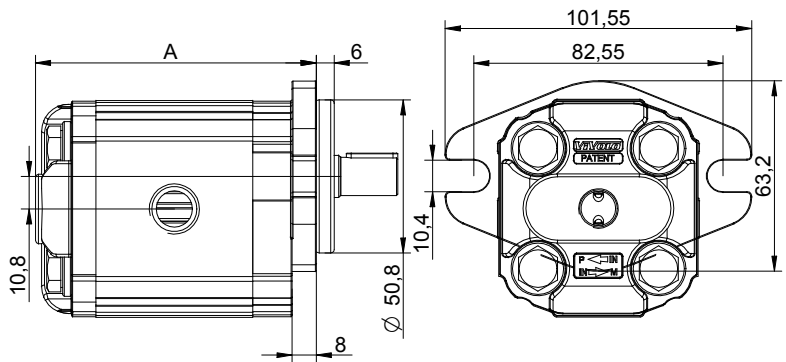
Table of variations

These two pages provide an overview of all the possible variations for customising a pump with a ø50.8 flange.

By filling in the missing data you can obtain the complete code of the product to be customised.



| | | |
|--------------|-----------|------------------|
| Series | X | series XV |
| Group | 1 | group 1 |
| Category | M | reversible motor |
| Displacement | | |
| Flange | | |
| Shaft | | |
| Body | IN OUT | |
| Cover | | |



ø50.8 FLANGE "SAE AA"

Code: **61**

| Shaft | |
|--|---|
| Code | Code |
| <p>CI001 - Parallel</p> <p>T.2 = 25.8 [Nm]</p> | <p>CI002 - Parallel</p> <p>T.2 = 32.8 [Nm]</p> |
| <p>CF003 - Milled shank SAE</p> <p>T.2 = 25.9 [Nm]</p> | <p>CO002 - Tapered</p> <p>T.2 = 119.8 [Nm]</p> |
| <p>SAE</p> | <p>SCF05 - Splined SAE J 498 9T 20/40 DP</p> <p>T.2 = 32.2 [Nm]</p> |
| <p>CO002+HK - Tapered</p> <p>T.2 = 119.8 [Nm]</p> | <p>CI001+HK - Parallel</p> <p>T.2 = 25.8 [Nm]</p> |

Table of variations

| Displacement | | |
|--------------|------|-------|
| TYPE | CODE | A |
| | | mm |
| XV-1M/0.9 | 16 | 82,6 |
| XV-1M/1.2 | 17 | 83,5 |
| XV-1M/1.7 | 18 | 85,0 |
| XV-1M/2.2 | 20 | 87,0 |
| XV-1M/2.6 | 21 | 89,0 |
| XV-1M/3.2 | 23 | 91,0 |
| XV-1M/3.8 | 25 | 93,0 |
| XV-1M/4.3 | 27 | 95,0 |
| XV-1M/4.9 | 29 | 98,0 |
| XV-1M/5.9 | 31 | 101,5 |
| XV-1M/6.5 | 32 | 105,0 |
| XV-1M/7.8 | 34 | 108,0 |
| XV-1M/9.8 | 36 | 117,0 |

| Standard bodies | | | | |
|-------------------------|------------------|-------|-------|-------|
| Displacement cm3/rev | Standard threads | | | |
| | 0.9 | I - I | B - B | J - J |
| 1.2 | I - I | B - B | J - J | Z - Z |
| 1.7 | I - I | B - B | J - J | Z - Z |
| 2.2 | I - I | B - B | J - J | Z - Z |
| 2.6 | I - I | B - B | J - J | Z - Z |
| 3.2 | I - I | B - B | J - J | Z - Z |
| 3.8 | I - I | B - B | J - J | Z - Z |
| 4.3 | I - I | B - B | J - J | Z - Z |
| 4.9 | I - I | B - B | J - J | Z - Z |
| 5.9 | I - I | B - B | J - J | Z - Z |
| 6.5 | I - I | B - B | J - J | Z - Z |
| 7.8 | I - I | B - B | J - J | Z - Z |
| 9.8 | I - I | B - B | J - J | Z - Z |

Table showing standard flange and thread combinations available in stock

| Body (threads/flanges) | | | |
|------------------------|---|-------------|---|
| | A | | B |
| | C | | D |
| | E | | F |
| | G | | H |
| | I | | J |
| | J | Closed Body | Z |

| Cover | | Code |
|-------|------------------------------|------|
| | External drainage | E |
| | Internal drainage | F |
| | IN + OUT + external drainage | K |
| | IN + OUT + internal drainage | L |

reversible motor - series XV

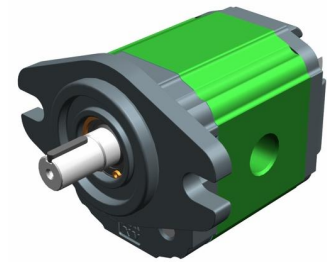
XV-1M

SAE AA TYPE MOTOR W/ BODY INLET AND OUTLET
 ø50.8 FLANGE - PARALLEL SHAFT



X 1 M 25 61 B B B E

| | | |
|--------------|-----|--|
| Series | X | series XV |
| Group | 1 | group 1 |
| Category | M | reversible motor |
| Displacement | 25 | 3.8 |
| Flange | 61 | Ø50.8 SAE AA reversible rotation |
| Shaft | B | CI002 - Parallel ø12.7 - key thk. 3.2 (SAE AA) |
| Body | IN | inlet - 3/8" GAS |
| | OUT | outlet - 3/8" GAS |
| Cover | E | with drainage 1/4" BSP |



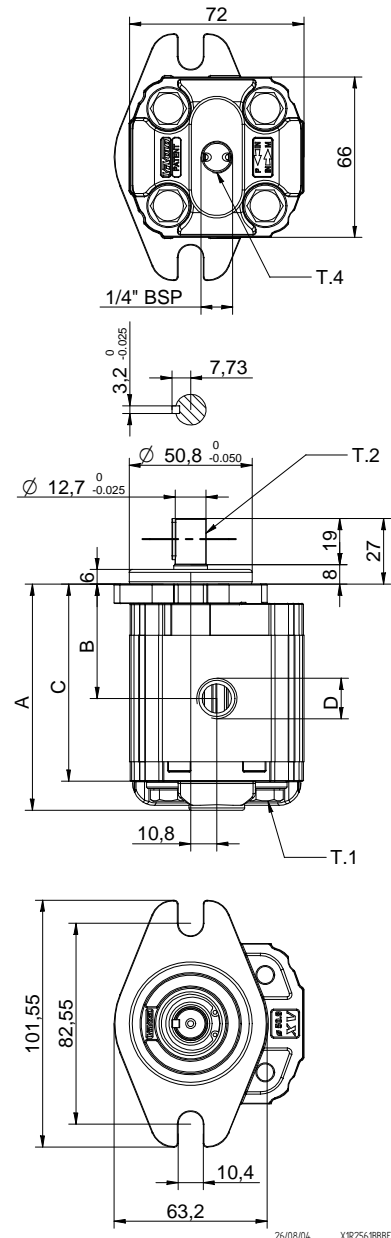
Reference **XM168**

| Technical data table | | | | | | |
|----------------------|-------------------------|---------------|--------|---------------------|---------------------|-------------------|
| TYPE | Displacement cm3/rev | Max. Pressure | | CODE | | |
| | | P1 bar | P3 bar | External drainage | | Internal drainage |
| XV-1M/0.9 | 0,91 | 240 | 280 | X 1 M 16 61 B B B E | X 1 M 16 61 B B B F | |
| XV-1M/1.2 | 1,17 | 250 | 290 | X 1 M 17 61 B B B E | X 1 M 17 61 B B B F | |
| XV-1M/1.7 | 1,56 | 250 | 290 | X 1 M 18 61 B B B E | X 1 M 18 61 B B B F | |
| XV-1M/2.2 | 2,08 | 250 | 290 | X 1 M 20 61 B B B E | X 1 M 20 61 B B B F | |
| XV-1M/2.6 | 2,60 | 250 | 300 | X 1 M 21 61 B B B E | X 1 M 21 61 B B B F | |
| XV-1M/3.2 | 3,12 | 250 | 300 | X 1 M 23 61 B B B E | X 1 M 23 61 B B B F | |
| XV-1M/3.8 | 3,64 | 250 | 300 | X 1 M 25 61 B B B E | X 1 M 25 61 B B B F | |
| XV-1M/4.3 | 4,16 | 250 | 300 | X 1 M 27 61 B B B E | X 1 M 27 61 B B B F | |
| XV-1M/4.9 | 4,94 | 250 | 300 | X 1 M 29 61 B B B E | X 1 M 29 61 B B B F | |
| XV-1M/5.9 | 5,85 | 250 | 300 | X 1 M 31 61 B B B E | X 1 M 31 61 B B B F | |
| XV-1M/6.5 | 6,50 | 250 | 300 | X 1 M 32 61 B B B E | X 1 M 32 61 B B B F | |
| XV-1M/7.8 | 7,54 | 220 | 260 | X 1 M 34 61 B B B E | X 1 M 34 61 B B B F | |
| XV-1M/9.8 | 9,88 | 190 | 230 | X 1 M 36 61 B B B E | X 1 M 36 61 B B B F | |

P1) Max. working pressure - P3) Max. peak pressure

For heavy-duty applications, it is recommended to check the admissible torque of the shaft

| Dimensions table | | | | | | |
|------------------|--------------|-------|------|-------|-----------|-----------|
| TYPE | Weight kg | A | B | C | D | D |
| | | mm | mm | mm | IN | OUT |
| XV-1M/0.9 | 1,000 | 82,6 | 41,8 | 70,6 | 3/8" BSPP | 3/8" BSPP |
| XV-1M/1.2 | 1,020 | 83,5 | 42,3 | 71,5 | 3/8" BSPP | 3/8" BSPP |
| XV-1M/1.7 | 1,060 | 85,0 | 43,0 | 73,0 | 3/8" BSPP | 3/8" BSPP |
| XV-1M/2.2 | 1,080 | 87,0 | 44,0 | 75,0 | 3/8" BSPP | 3/8" BSPP |
| XV-1M/2.6 | 1,110 | 89,0 | 45,0 | 77,0 | 3/8" BSPP | 3/8" BSPP |
| XV-1M/3.2 | 1,140 | 91,0 | 46,0 | 79,0 | 3/8" BSPP | 3/8" BSPP |
| XV-1M/3.8 | 1,170 | 93,0 | 47,0 | 81,0 | 3/8" BSPP | 3/8" BSPP |
| XV-1M/4.3 | 1,220 | 95,0 | 48,0 | 83,0 | 3/8" BSPP | 3/8" BSPP |
| XV-1M/4.9 | 1,250 | 98,0 | 49,5 | 86,0 | 3/8" BSPP | 3/8" BSPP |
| XV-1M/5.9 | 1,310 | 101,5 | 51,3 | 89,5 | 3/8" BSPP | 3/8" BSPP |
| XV-1M/6.5 | 1,350 | 105,0 | 52,5 | 93,0 | 3/8" BSPP | 3/8" BSPP |
| XV-1M/7.8 | 1,410 | 108,0 | 54,5 | 96,0 | 3/8" BSPP | 3/8" BSPP |
| XV-1M/9.8 | 1,550 | 117,0 | 59,0 | 105,0 | 3/8" BSPP | 3/8" BSPP |



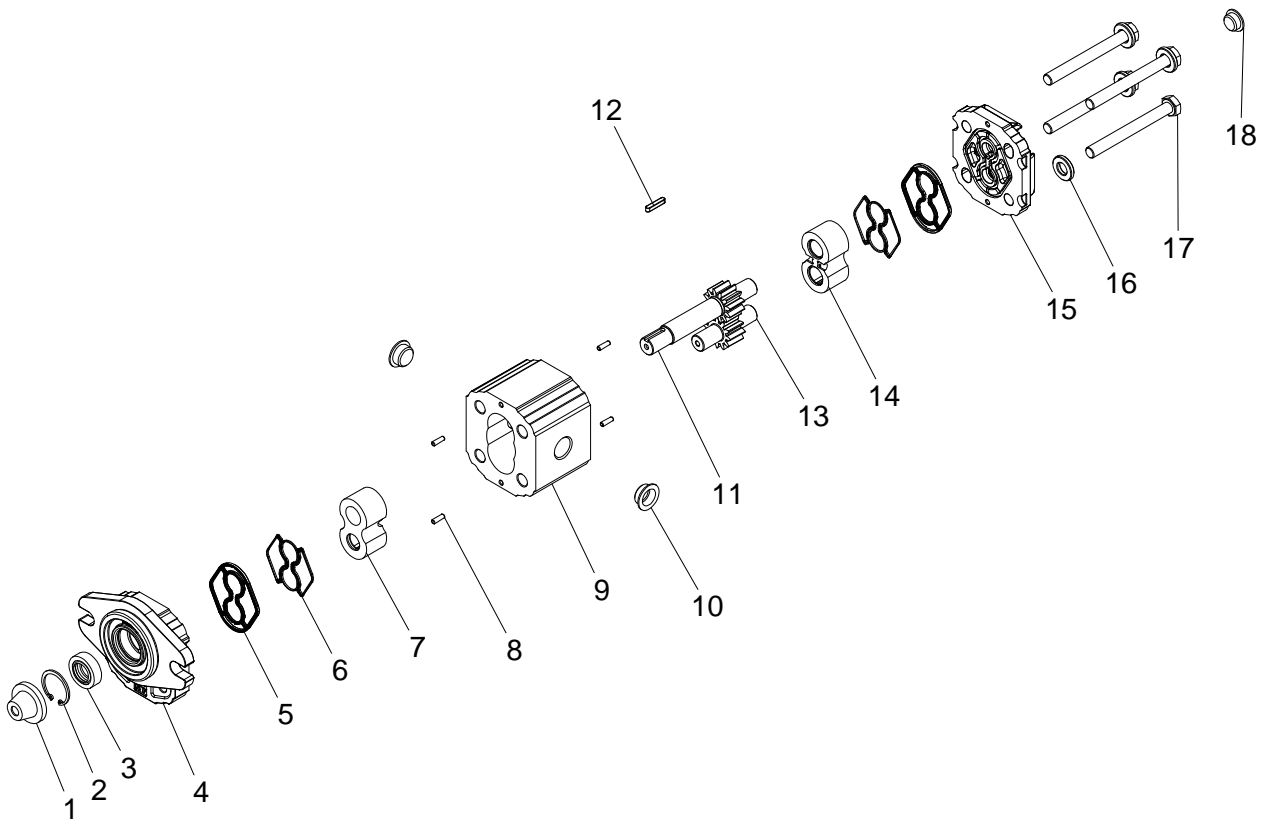
T.1 = 24.5÷29.4 [Nm] - screw tightening torque M8

T.2 = 32.8 [Nm] - admissible shaft torque (N.B. When choosing a shaft, always check the admissible torque).

T.4 = 0.3÷0.5 bar - max. drainage pressure

| | |
|-----------|--------------|
| Reference | XM168 |
|-----------|--------------|

Example of ordering code:

X1M2561BBBE XV1M/3.8 - Ø50.8 SAE AA /R - CI002 - 3/8" BSP - 3/8" BSP - Dren. est.

Basic list

| Pos. | Item description | Item | Size | Quantity |
|------|---|------------|-------|----------|
| 1 | KEY PROTECTION XV1 | 590.0025.A | 0 | 1 |
| 2 | ø24 INTERNAL SNAP RING DIN 472 | 560.0015.A | 0 | 1 |
| 3 | OIL SEAL CORCOS BLUE 14 x 24 x 7/7.5 - BAB SL | 690.0027.A | 0 | 1 |
| 4 | XV1 ø50,8 SAE AA FLANGE | 100.0273.A | 0 | 1 |
| 5 | INJECTION-MOLDED SEAL XV1 (NBR 70÷75 SH) | 100.0247.C | 0 | 2 |
| 6 | XV1 BACK-UP ELEMENT FOR BALANCING | 100.0248.A | 0 | 2 |
| 7 | XV1 BUSH H=19 | 100.0502.A | 0 | 1 |
| 8 | PIN ø3x9,8 | 570.0005.A | 0 | 4 |
| 9 | BODY W/THREAD 3/8" - 3/8" BSP - cc=3,8 | 100.0067.A | H52 | 1 |
| 10 | PLASTIC PLUG ø15,5 | 580.0001.A | D15,5 | 2 |
| 11 | CI002 SAE - PARALLEL DRIVING GEAR | 100.0115.A | CC3,8 | 1 |
| 12 | KEY 3,2x3,2 L=17 | 100.0173.A | 0 | 1 |
| 13 | COND2 - PERFORATED DRIVEN GEAR | 100.0023.A | CC3,8 | 1 |
| 14 | XV1 BUSH H=19 | 100.0501.A | 0 | 1 |
| 15 | NEUTRAL XV1 COVER W/DRAINAGE 1/4" BSP | 100.0274.X | F1ZZA | 1 |
| 16 | SPACE WASHER ø9x18 H=3 | 100.0212.A | 0 | 4 |
| 17 | WHITE GALVANISED SCREW TE M8x75 UNI 5737 8.8 | 531.0008.A | L075 | 4 |
| 18 | PLASTIC PLUG ø12 | 580.0001.A | D12 | 1 |

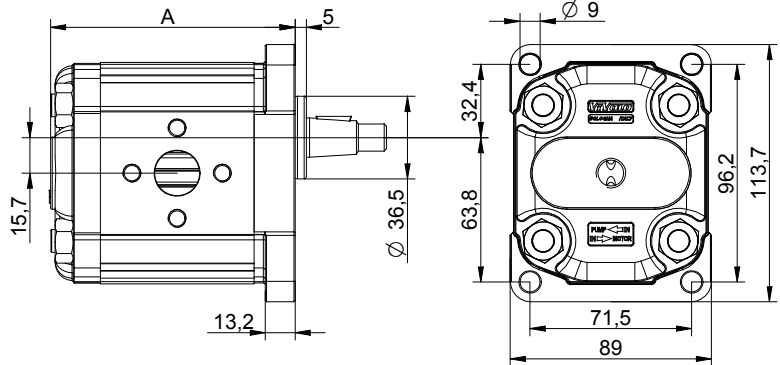
Table of variations

These two pages provide an overview of all the possible variations for customising a pump with a ø36.5 flange.

By filling in the missing data you can obtain the complete code of the product to be customised.



| | | |
|--------------|-----------|------------------|
| Series | X | series XV |
| Group | 2 | group 2 |
| Category | M | reversible motor |
| Displacement | | |
| Flange | | |
| Shaft | | |
| Body | IN OUT | |
| Cover | | |



| ø36.5 FLANGE | | Shaft | |
|--------------|------|--|--|
| | Code | | Code |
| | 01 | CI001 - Parallel T.2 = 44.1 [Nm] | CI002 - Parallel T.2 = 67.5 [Nm] |
| | 04 | CO001 - Tapered T.2 = 233.2 [Nm] | CO002 - Tapered T.2 = 233.2 [Nm] |
| | 05 | SCF02 - Splined m=1,6 Z=9 DIN 5482 - 17x14 T.2 = 86.1 [Nm] | SCF03 - Splined m=1,6 Z=9 DIN 5482 - 17x14 T.2 = 86.1 [Nm] |
| | | SCF04 - Splined SAE J 498 9T 16/32 DP T.2 = 67.1 [Nm] | SCF01 - Splined m=1,6 Z=9 DIN 5482 - 17x14 T.2 = 86.2 [Nm] |

Table of variations

| Displacement | | |
|--------------|------|-------|
| TYPE | CODE | A |
| | | mm |
| XV-2M/04 | 41 | 87,2 |
| XV-2M/06 | 43 | 90,2 |
| XV-2M/09 | 45 | 94,2 |
| XV-2M/11 | 47 | 98,2 |
| XV-2M/14 | 49 | 104,2 |
| XV-2M/17 | 51 | 108,2 |
| XV-2M/19 | 53 | 112,2 |
| XV-2M/22 | 55 | 118,2 |
| XV-2M/26 | 57 | 122,2 |
| XV-2M/30 | 59 | 130,2 |
| XV-2M/34 | 61 | 137,2 |
| XV-2M/40 | 63 | 146,2 |

| Standard bodies | | | | |
|-----------------|------------------|-------|-------|-------|
| Displacement | Standard threads | | | |
| | cm3/rev | | | |
| 04 | O - O | R - R | B - B | Z - Z |
| 06 | O - O | R - R | B - B | Z - Z |
| 09 | O - O | R - R | B - B | Z - Z |
| 11 | O - O | R - R | B - B | Z - Z |
| 14 | P - P | R - R | C - C | Z - Z |
| 17 | P - P | R - R | C - C | Z - Z |
| 19 | P - P | R - R | C - C | Z - Z |
| 22 | P - P | R - R | C - C | Z - Z |
| 26 | Q - P | S - S | D - D | Z - Z |
| 30 | Q - P | S - S | D - D | Z - Z |
| 34 | Q - P | S - S | D - D | Z - Z |
| 40 | Q - P | S - S | D - D | Z - Z |

Table showing standard flange and thread combinations available in stock

| Body (threads/flanges) | | | | |
|------------------------|---|--|---|--|
| | A | | B | |
| | D | | E | |
| | G | | H | |
| | J | | K | |
| | M | | N | |
| | P | | Q | |
| | S | | T | |
| | V | | W | |
| Closed Body | Z | | | |

| Cover | | Code |
|-------|--|------|
| | | E |
| | | F |
| | | K |
| | | L |
| | | P |

reversible motor - series XV

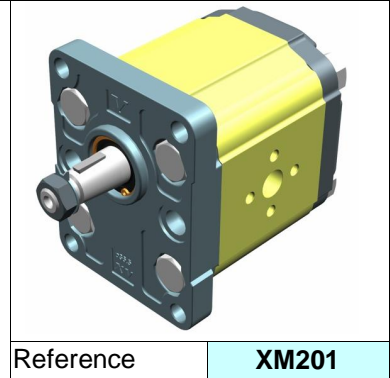
XV-2M

STANDARD EUROPEAN MOTOR
 ø36.5 FLANGE - TAPER SHAFT



X 2 M 51 01 E P P E

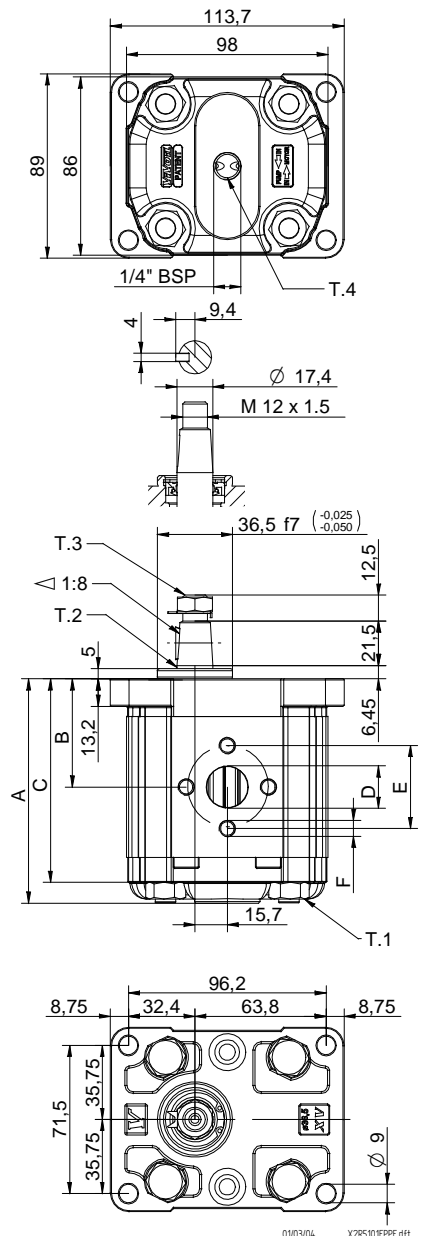
| | | |
|--------------|-----|---|
| Series | X | series XV |
| Group | 2 | group 2 |
| Category | M | reversible motor |
| Displacement | 51 | 17 |
| Flange | 01 | Ø36.5 STANDARD EUROPEAN reversible rotation |
| Shaft | E | CO001 - Tapered 1:8 - ø17.4 - M12x1.5 - key thk.4 |
| Body | IN | inlet - Ø40 Ø20 M8 |
| | OUT | outlet - Ø40 Ø20 M8 |
| Cover | E | with external drainage |



| Technical data table | | | | | | |
|----------------------|--------------------------------------|---------------|--------|---------------------|---------------------|-------------------|
| TYPE | Displacement cm ³ /rev | Max. Pressure | | CODE | | |
| | | P1 bar | P3 bar | External drainage | | Internal drainage |
| XV-2M/04 | 4,20 | 260 | 300 | X 2 M 41 01 E O O E | X 2 M 41 01 E O O F | |
| XV-2M/06 | 6,00 | 260 | 300 | X 2 M 43 01 E O O E | X 2 M 43 01 E O O F | |
| XV-2M/09 | 8,40 | 260 | 300 | X 2 M 45 01 E O O E | X 2 M 45 01 E O O F | |
| XV-2M/11 | 10,80 | 260 | 300 | X 2 M 47 01 E O O E | X 2 M 47 01 E O O F | |
| XV-2M/14 | 14,40 | 250 | 290 | X 2 M 49 01 E P P E | X 2 M 49 01 E P P F | |
| XV-2M/17 | 16,80 | 230 | 270 | X 2 M 51 01 E P P E | X 2 M 51 01 E P P F | |
| XV-2M/19 | 19,20 | 210 | 250 | X 2 M 53 01 E P P E | X 2 M 53 01 E P P F | |
| XV-2M/22 | 22,80 | 200 | 240 | X 2 M 55 01 E P P E | X 2 M 55 01 E P P F | |
| XV-2M/26 | 26,20 | 170 | 210 | X 2 M 57 01 E Q P E | X 2 M 57 01 E Q P F | |
| XV-2M/30 | 30,00 | 160 | 200 | X 2 M 59 01 E Q P E | X 2 M 59 01 E Q P F | |
| XV-2M/34 | 34,20 | 150 | 190 | X 2 M 61 01 E Q P E | X 2 M 61 01 E Q P F | |
| XV-2M/40 | 39,60 | 140 | 180 | X 2 M 63 01 E Q P E | X 2 M 63 01 E Q P F | |

P1) Max. working pressure - P3) Max. peak pressure
 For heavy-duty applications, it is recommended to check the admissible torque of the shaft

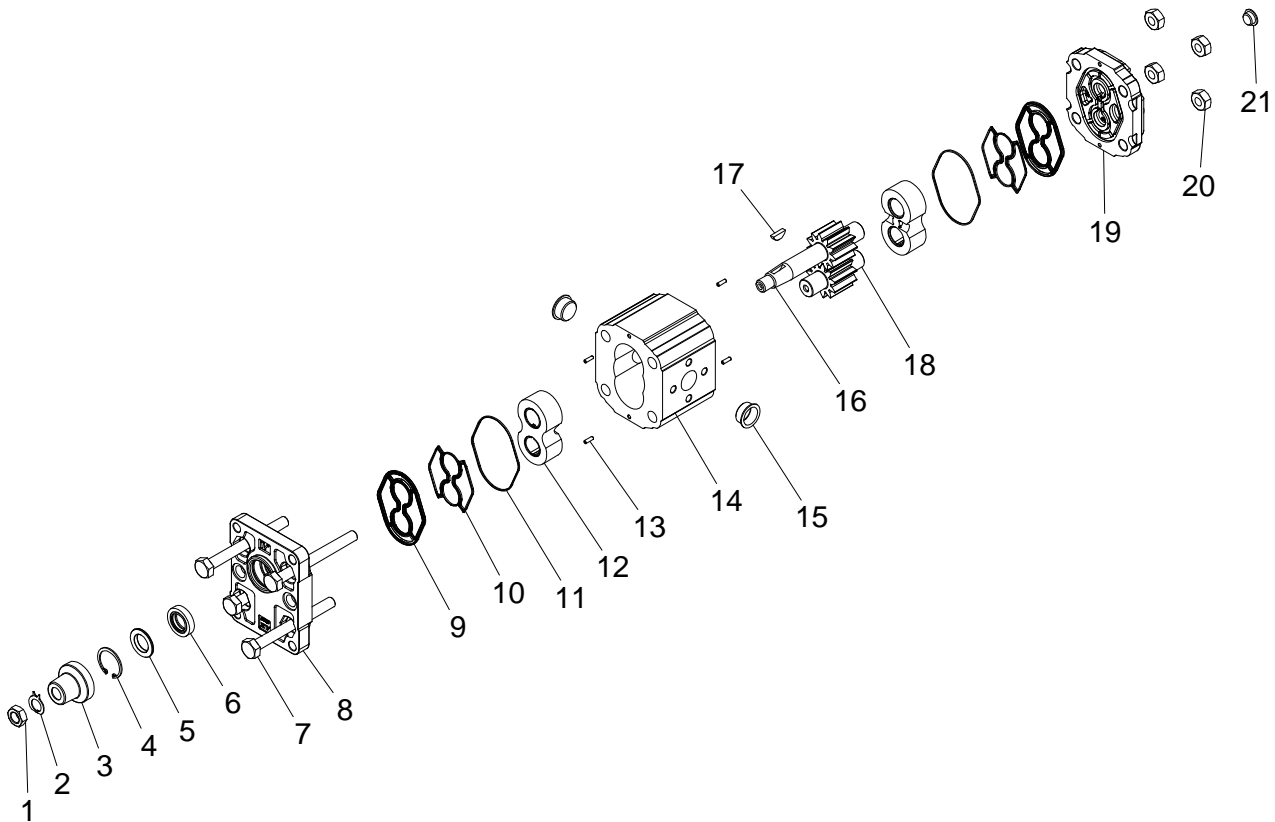
| Dimensions table | | | | | | | | | | |
|------------------|--------------|-------|------|-------|-------|----|---------|-------|----|---------|
| TYPE | Weight kg | A | B | C | D | E | F | D | E | F |
| | | mm | mm | mm | IN | | | OUT | | |
| XV-2M/04 | 2,200 | 87,2 | 41,7 | 77,2 | ø13,5 | 30 | M6x1 | ø13,5 | 30 | M6x1 |
| XV-2M/06 | 2,300 | 90,2 | 43,2 | 80,2 | ø13,5 | 30 | M6x1 | ø13,5 | 30 | M6x1 |
| XV-2M/09 | 2,400 | 94,2 | 45,2 | 84,2 | ø13,5 | 30 | M6x1 | ø13,5 | 30 | M6x1 |
| XV-2M/11 | 2,500 | 98,2 | 47,2 | 88,2 | ø13,5 | 30 | M6x1 | ø13,5 | 30 | M6x1 |
| XV-2M/14 | 2,700 | 104,2 | 50,2 | 94,2 | ø20 | 40 | M8X1,25 | ø20 | 40 | M8X1,25 |
| XV-2M/17 | 2,800 | 108,2 | 52,2 | 98,2 | ø20 | 40 | M8X1,25 | ø20 | 40 | M8X1,25 |
| XV-2M/19 | 2,900 | 112,2 | 54,2 | 102,2 | ø20 | 40 | M8X1,25 | ø20 | 40 | M8X1,25 |
| XV-2M/22 | 3,050 | 118,2 | 57,2 | 108,2 | ø20 | 40 | M8X1,25 | ø20 | 40 | M8X1,25 |
| XV-2M/26 | 3,150 | 122,2 | 59,2 | 112,2 | ø23,5 | 40 | M8X1,25 | ø20 | 40 | M8X1,25 |
| XV-2M/30 | 3,400 | 130,2 | 63,2 | 120,2 | ø23,5 | 40 | M8X1,25 | ø20 | 40 | M8X1,25 |
| XV-2M/34 | 3,600 | 137,2 | 66,7 | 127,2 | ø23,5 | 40 | M8X1,25 | ø20 | 40 | M8X1,25 |
| XV-2M/40 | 3,800 | 146,2 | 71,2 | 136,2 | ø23,5 | 40 | M8X1,25 | ø20 | 40 | M8X1,25 |



T.1 = 54÷58.9 [Nm] - screw tightening torque M10
 T.2 = 233.2 [Nm] - admissible shaft torque (N.B. When choosing a shaft, always check the admissible torque).
 T.3 = 40 [Nm] - torque wrench setting 19
 T.4 = 0.3÷0.5 bar - max. drainage pressure

| | |
|-----------|--------------|
| Reference | XM201 |
|-----------|--------------|

Example of ordering code:

X2M5101EPPE XV2M/17 - Ø36.5 /R - CO001 - Ø40 M8 - Ø40 M8 - Dren. est.


| Basic list | | | | |
|------------|--|------------|-------|----------|
| Pos. | Item description | Item | Size | Quantity |
| 1 | NUT M12x1,5 H=7 CH.17 | 200.0157.A | 0 | 1 |
| 2 | TAB WASHER ø12,5xø19 - CO001-CO002 XV2 | 200.0150.A | 0 | 1 |
| 3 | KEY PROTECTION XV2 | 590.0010.A | 0 | 1 |
| 4 | ø29 INTERNAL SNAP RING DIN 472 | 560.0020.A | 0 | 1 |
| 5 | BACK UP WASHER OIL SEAL XV2M | 200.0126.A | 0 | 1 |
| 6 | OIL SEAL 17.46 x 28.58 x 6.4 SCV | 690.0105.A | 0 | 1 |
| 7 | WHITE GALVANISED SCREW TE M10x100 UNI 5737 8.8 | 531.0010.A | L100 | 4 |
| 8 | XV2 ø36,5 FLANGE | 200.0238.A | 0 | 1 |
| 9 | INJECTION-MOLDED SEAL XV2 (NBR 70÷75 SH) | 200.0190.C | 0 | 2 |
| 10 | XV2 BACK-UP ELEMENT FOR BALANCING | 200.0191.A | 0 | 2 |
| 11 | EXTERNAL BACK-UP ELEMENT XV2 | 200.0194.A | 0 | 2 |
| 12 | KV2P BUSH H=20 | 200.0012.A | 0 | 2 |
| 13 | PIN ø3x9,8 | 570.0005.A | 0 | 4 |
| 14 | STANDARD CROSS FLANGED BODY - cc=17 | 200.0049.A | H68 | 1 |
| 15 | PLASTIC PLUG ø21 | 580.0001.A | D21 | 2 |
| 16 | CO001 - TAPERED 1÷8 DRIVING GEAR | 200.0009.A | CC17 | 1 |
| 17 | WOODRUFF KEY ø16x4 H=6,5 | 200.0141.A | 0 | 1 |
| 18 | COND2 - PERFORATED DRIVEN GEAR | 200.0010.A | CC17 | 1 |
| 19 | NEUTRAL XV2 COVER W/DRAINAGE 1/4" BSP | 200.0008.X | FZZZA | 1 |
| 20 | WHITE GALVANISED NUT M10 H=10 UNI 5587 | 540.0005.A | 0 | 4 |
| 21 | PLASTIC PLUG ø12 | 580.0001.A | D12 | 1 |

reversible motor - series XV

XV-2M

STANDARD EUROPEAN MOTOR
 ø36.5 FLANGE - TAPER SHAFT



X 2 M 51 01 E C C E

| | | |
|--------------|-----|---|
| Series | X | series XV |
| Group | 2 | group 2 |
| Category | M | reversible motor |
| Displacement | 51 | 17 |
| Flange | 01 | Ø36.5 STANDARD EUROPEAN reversible rotation |
| Shaft | E | CO001 - Tapered 1:8 - ø17.4 - M12x1.5 - key thk.4 |
| Body | IN | inlet - 3/4" GAS |
| | OUT | outlet - 3/4" GAS |
| Cover | E | with external drainage |



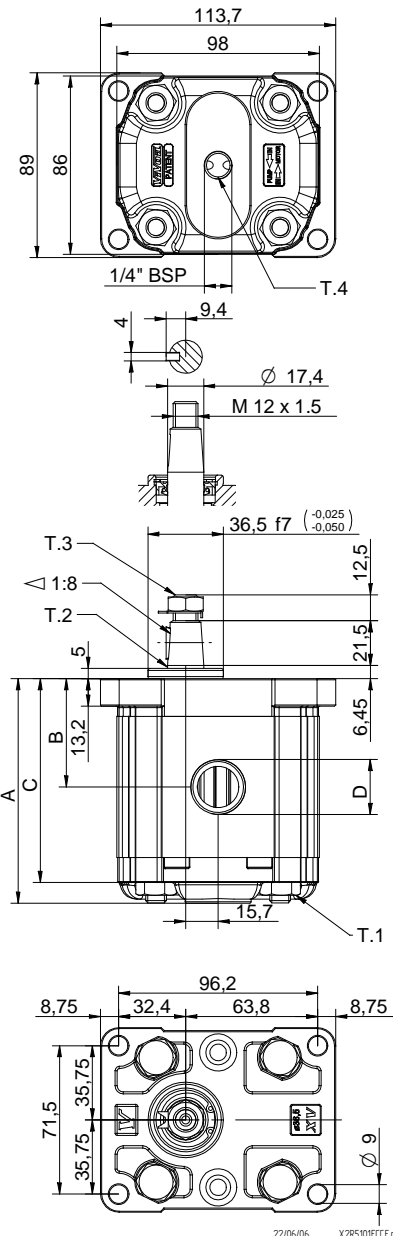
Reference **XM207**

| Technical data table | | | | | | |
|----------------------|-------------------------|---------------|--------|---------------------|---------------------|-------------------|
| TYPE | Displacement cm3/rev | Max. Pressure | | CODE | | |
| | | P1 bar | P3 bar | External drainage | | Internal drainage |
| XV-2M/04 | 4,20 | 260 | 300 | X 2 M 41 01 E B B E | X 2 M 41 01 E B B F | |
| XV-2M/06 | 6,00 | 260 | 300 | X 2 M 43 01 E B B E | X 2 M 43 01 E B B F | |
| XV-2M/09 | 8,40 | 260 | 300 | X 2 M 45 01 E B B E | X 2 M 45 01 E B B F | |
| XV-2M/11 | 10,80 | 260 | 300 | X 2 M 47 01 E B B E | X 2 M 47 01 E B B F | |
| XV-2M/14 | 14,40 | 250 | 290 | X 2 M 49 01 E C C E | X 2 M 49 01 E C C F | |
| XV-2M/17 | 16,80 | 230 | 270 | X 2 M 51 01 E C C E | X 2 M 51 01 E C C F | |
| XV-2M/19 | 19,20 | 210 | 250 | X 2 M 53 01 E C C E | X 2 M 53 01 E C C F | |
| XV-2M/22 | 22,80 | 200 | 240 | X 2 M 55 01 E C C E | X 2 M 55 01 E C C F | |
| XV-2M/26 | 26,20 | 170 | 210 | X 2 M 57 01 E D D E | X 2 M 57 01 E D D F | |
| XV-2M/30 | 30,00 | 160 | 200 | X 2 M 59 01 E D D E | X 2 M 59 01 E D D F | |
| XV-2M/34 | 34,20 | 150 | 190 | X 2 M 61 01 E D D E | X 2 M 61 01 E D D F | |
| XV-2M/40 | 39,60 | 140 | 180 | X 2 M 63 01 E D D E | X 2 M 63 01 E D D F | |

P1) Max. working pressure - P3) Max. peak pressure

For heavy-duty applications, it is recommended to check the admissible torque of the shaft

| Dimensions table | | | | | | |
|------------------|--------|-------|------|-------|-----------|-----------|
| TYPE | Weight | A | B | C | D | D |
| | kg | mm | mm | mm | IN | OUT |
| XV-2M/04 | 2,200 | 87,2 | 41,7 | 77,2 | 1/2" BSPP | 1/2" BSPP |
| XV-2M/06 | 2,300 | 90,2 | 43,2 | 80,2 | 1/2" BSPP | 1/2" BSPP |
| XV-2M/09 | 2,400 | 94,2 | 45,2 | 84,2 | 1/2" BSPP | 1/2" BSPP |
| XV-2M/11 | 2,500 | 98,2 | 47,2 | 88,2 | 1/2" BSPP | 1/2" BSPP |
| XV-2M/14 | 2,700 | 104,2 | 50,2 | 94,2 | 3/4" BSPP | 3/4" BSPP |
| XV-2M/17 | 2,800 | 108,2 | 52,2 | 98,2 | 3/4" BSPP | 3/4" BSPP |
| XV-2M/19 | 2,900 | 112,2 | 54,2 | 102,2 | 3/4" BSPP | 3/4" BSPP |
| XV-2M/22 | 3,050 | 118,2 | 57,2 | 108,2 | 3/4" BSPP | 3/4" BSPP |
| XV-2M/26 | 3,150 | 122,2 | 59,2 | 112,2 | 1" BSPP | 1" BSPP |
| XV-2M/30 | 3,400 | 130,2 | 63,2 | 120,2 | 1" BSPP | 1" BSPP |
| XV-2M/34 | 3,600 | 137,2 | 66,7 | 127,2 | 1" BSPP | 1" BSPP |
| XV-2M/40 | 3,800 | 146,2 | 71,2 | 136,2 | 1" BSPP | 1" BSPP |



T.1 = 54÷58.9 [Nm] - screw tightening torque M10

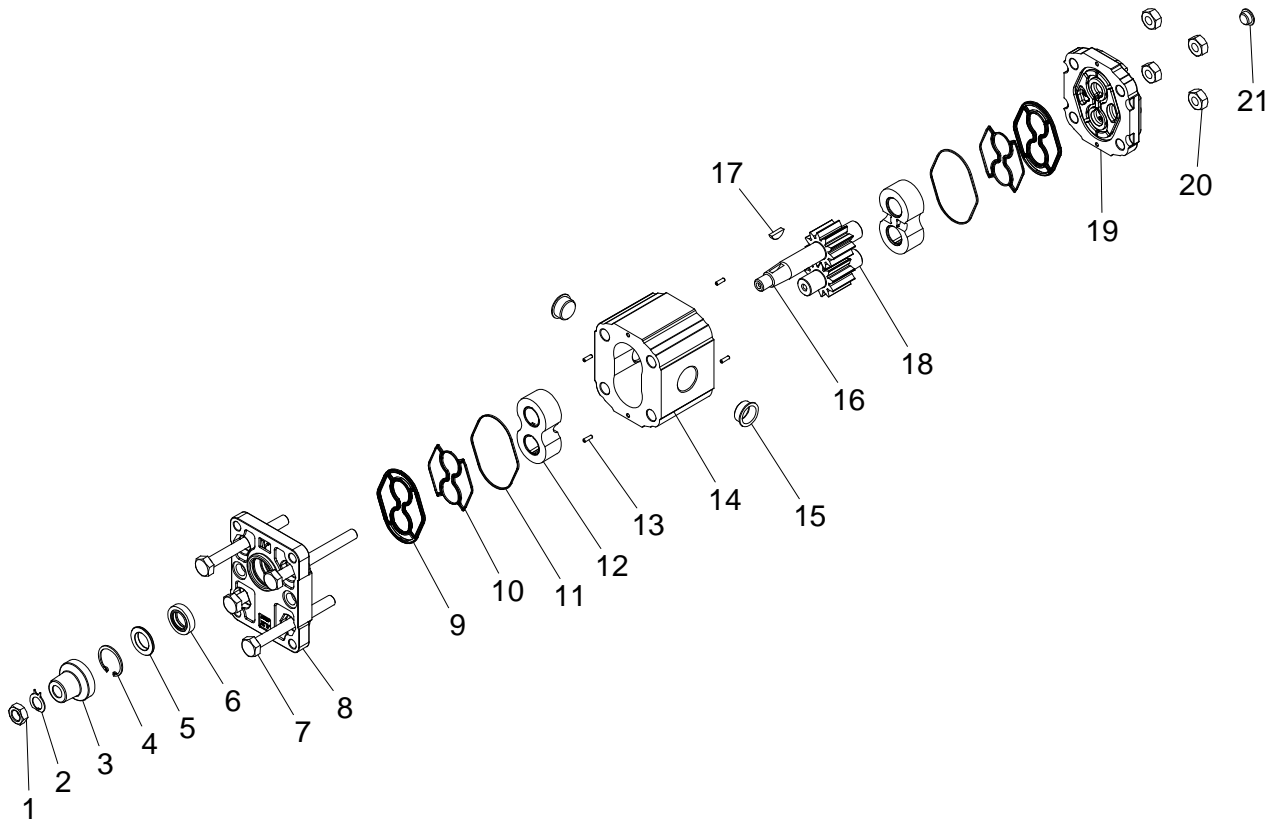
T.3 = 40 [Nm] - torque wrench setting 19

T.2 = 233.2 [Nm] - admissible shaft torque (N.B. When choosing a shaft, always check the admissible torque).

T.4 = 0.3÷0.5 bar - max. drainage pressure

| | |
|-----------|--------------|
| Reference | XM207 |
|-----------|--------------|

Example of ordering code:

X2M5101ECCE XV2M/17 - ø36.5 /R - CO001 - 3/4" BSP - 3/4" BSP - Dren. est.


| Basic list | | | | |
|------------|--|------------|-------|----------|
| Pos. | Item description | Item | Size | Quantity |
| 1 | NUT M12x1,5 H=7 CH.17 | 200.0157.A | 0 | 1 |
| 2 | TAB WASHER ø12,5xø19 - CO001-CO002 XV2 | 200.0150.A | 0 | 1 |
| 3 | KEY PROTECTION XV2 | 590.0010.A | 0 | 1 |
| 4 | ø29 INTERNAL SNAP RING DIN 472 | 560.0020.A | 0 | 1 |
| 5 | BACK UP WASHER OIL SEAL XV2M | 200.0126.A | 0 | 1 |
| 6 | OIL SEAL 17.46 x 28.58 x 6.4 SCV | 690.0105.A | 0 | 1 |
| 7 | WHITE GALVANISED SCREW TE M10x100 UNI 5737 8.8 | 531.0010.A | L100 | 4 |
| 8 | XV2 ø36,5 FLANGE | 200.0238.A | 0 | 1 |
| 9 | INJECTION-MOLDED SEAL XV2 (NBR 70÷75 SH) | 200.0190.C | 0 | 2 |
| 10 | XV2 BACK-UP ELEMENT FOR BALANCING | 200.0191.A | 0 | 2 |
| 11 | EXTERNAL BACK-UP ELEMENT XV2 | 200.0194.A | 0 | 2 |
| 12 | KV2P BUSH H=20 | 200.0012.A | 0 | 2 |
| 13 | PIN ø3x9,8 | 570.0005.A | 0 | 4 |
| 14 | BODY W/THREAD MOTOR BSP - cc=17 | 200.0050.A | H68 | 1 |
| 15 | PLASTIC PLUG ø25 | 580.0001.A | D25 | 2 |
| 16 | CO001 - TAPERED 1÷8 DRIVING GEAR | 200.0009.A | CC17 | 1 |
| 17 | WOODRUFF KEY ø16x4 H=6,5 | 200.0141.A | 0 | 1 |
| 18 | COND2 - PERFORATED DRIVEN GEAR | 200.0010.A | CC17 | 1 |
| 19 | NEUTRAL XV2 COVER W/DRAINAGE 1/4" BSP | 200.0008.X | FZZZA | 1 |
| 20 | WHITE GALVANISED NUT M10 H=10 UNI 5587 | 540.0005.A | 0 | 4 |
| 21 | PLASTIC PLUG ø12 | 580.0001.A | D12 | 1 |

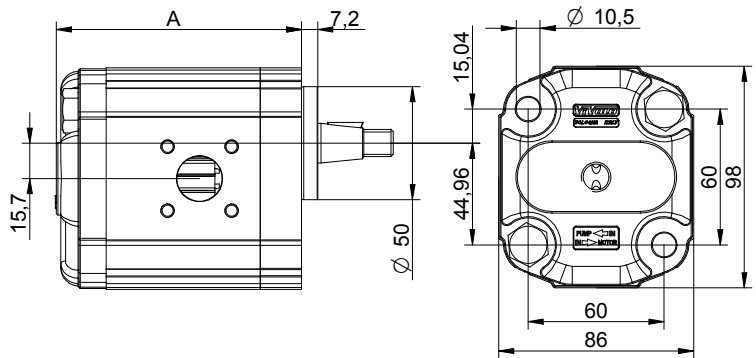
Table of variations

These two pages provide an overview of all the possible variations for customising a pump with a ø50 "BH" body-Shaped flange.

By filling in the missing data you can obtain the complete code of the product to be customised.



| | | |
|--------------|-----------|------------------|
| Series | X | series XV |
| Group | 2 | group 2 |
| Category | M | reversible motor |
| Displacement | | |
| Flange | | |
| Shaft | | |
| Body | IN OUT | |
| Cover | | |



ø50 "BH" Body-Shaped FLANGE

| ø50 "BH" Body-Shaped FLANGE | | Shaft | | |
|-----------------------------|---|-------|---|---|
| Code | | Code | Code | |
| 07 | <p>CI001 - Parallel T.2 = 44.1 [Nm]</p> | A | <p>CI002 - Parallel T.2 = 67.5 [Nm]</p> | B |
| 10 | <p>CO001 - Tapered T.2 = 233.2 [Nm]</p> | E | <p>CO002 - Tapered T.2 = 233.2 [Nm]</p> | F |
| | <p>SCF03 - Splined T.2 = 86.1 [Nm]</p> | H | Z | |

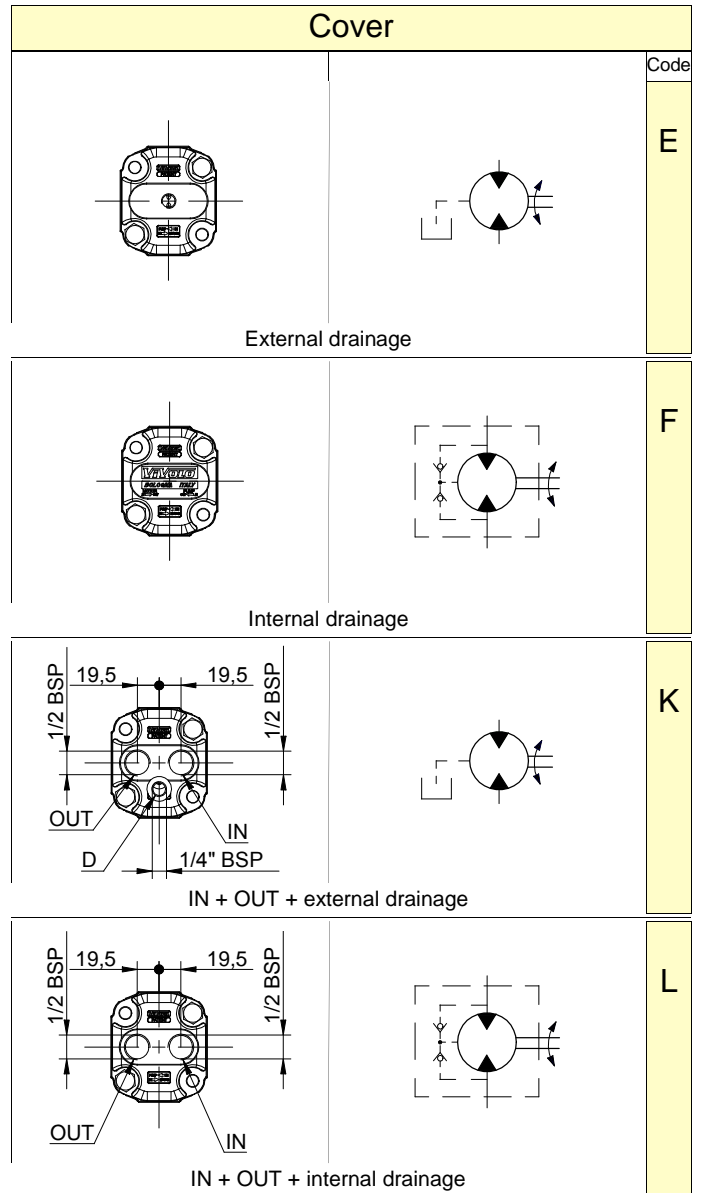
Table of variations

| Displacement | | |
|--------------|------|-------|
| TYPE | CODE | A |
| | | mm |
| XV-2M/04 | 41 | 87,2 |
| XV-2M/06 | 43 | 90,2 |
| XV-2M/09 | 45 | 94,2 |
| XV-2M/11 | 47 | 98,2 |
| XV-2M/14 | 49 | 104,2 |
| XV-2M/17 | 51 | 108,2 |
| XV-2M/19 | 53 | 112,2 |
| XV-2M/22 | 55 | 118,2 |
| XV-2M/26 | 57 | 122,2 |
| XV-2M/30 | 59 | 130,2 |
| XV-2M/34 | 61 | 137,2 |
| XV-2M/40 | 63 | 146,2 |

| Standard bodies | | | | |
|-----------------|------------------|-------|-------|-------|
| Displacement | Standard threads | | | |
| | cm3/rev | | | |
| 04 | O - O | R - R | B - B | Z - Z |
| 06 | O - O | R - R | B - B | Z - Z |
| 09 | O - O | R - R | B - B | Z - Z |
| 11 | O - O | R - R | B - B | Z - Z |
| 14 | P - P | R - R | C - C | Z - Z |
| 17 | P - P | R - R | C - C | Z - Z |
| 19 | P - P | R - R | C - C | Z - Z |
| 22 | P - P | R - R | C - C | Z - Z |
| 26 | Q - P | S - S | D - D | Z - Z |
| 30 | Q - P | S - S | D - D | Z - Z |
| 34 | Q - P | S - S | D - D | Z - Z |
| 40 | Q - P | S - S | D - D | Z - Z |

Table showing standard flange and thread combinations available in stock

| Body (threads/flanges) | | | | | | | |
|------------------------|---|--|---|--|---|--|---|
| | A | | B | | C | | D |
| | E | | F | | G | | H |
| | I | | L | | M | | N |
| | O | | P | | Q | | R |
| | S | | T | | U | | V |
| Closed Body | Z | | | | | | |



reversible motor - series XV

XV-2M

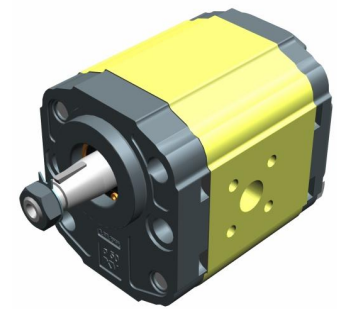
BH TYPE MOTOR

ø50 BODY-SHAPED FLANGE - TAPER SHAFT



X 2 M 51 07 F R R E

| | | |
|--------------|-----|---|
| Series | X | series XV |
| Group | 2 | group 2 |
| Category | M | reversible motor |
| Displacement | 51 | 17 |
| Flange | 07 | Ø50 BH GERMAN STARDANDARDIZED reversible rotation |
| Shaft | F | CO002 - Tapered 1:5 - ø17.4 - M12x1.5 - key thk.3 |
| Body | IN | inlet - Ø35 a 45° Ø15 M6 |
| | OUT | outlet - Ø35 a 45° Ø15 M6 |
| Cover | E | with external drainage |



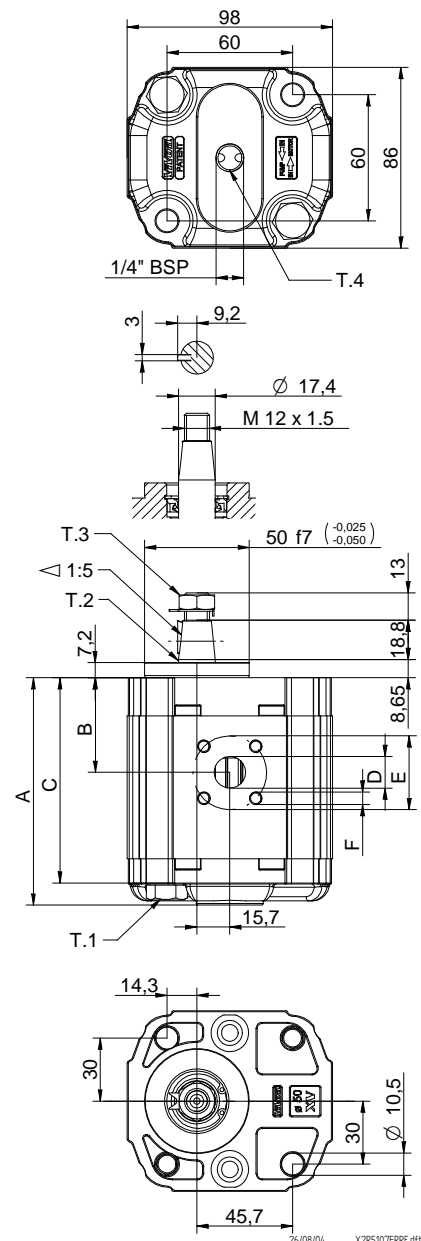
Reference **XM210**

| Technical data table | | | | | | |
|----------------------|-------------------------|---------------|--------|---------------------|---------------------|-------------------|
| TYPE | Displacement cm3/rev | Max. Pressure | | CODE | | |
| | | P1 bar | P3 bar | External drainage | | Internal drainage |
| XV-2M/04 | 4,20 | 260 | 300 | X 2 M 41 07 F R R E | X 2 M 41 07 F R R F | F |
| XV-2M/06 | 6,00 | 260 | 300 | X 2 M 43 07 F R R E | X 2 M 43 07 F R R F | F |
| XV-2M/09 | 8,40 | 260 | 300 | X 2 M 45 07 F R R E | X 2 M 45 07 F R R F | F |
| XV-2M/11 | 10,80 | 260 | 300 | X 2 M 47 07 F R R E | X 2 M 47 07 F R R F | F |
| XV-2M/14 | 14,40 | 250 | 290 | X 2 M 49 07 F R R E | X 2 M 49 07 F R R F | F |
| XV-2M/17 | 16,80 | 230 | 270 | X 2 M 51 07 F R R E | X 2 M 51 07 F R R F | F |
| XV-2M/19 | 19,20 | 210 | 250 | X 2 M 53 07 F R R E | X 2 M 53 07 F R R F | F |
| XV-2M/22 | 22,80 | 200 | 240 | X 2 M 55 07 F R R E | X 2 M 55 07 F R R F | F |
| XV-2M/26 | 26,20 | 170 | 210 | X 2 M 57 07 F S S E | X 2 M 57 07 F S S F | F |
| XV-2M/30 | 30,00 | 160 | 200 | X 2 M 59 07 F S S E | X 2 M 59 07 F S S F | F |
| XV-2M/34 | 34,20 | 150 | 190 | X 2 M 61 07 F S S E | X 2 M 61 07 F S S F | F |
| XV-2M/40 | 39,60 | 140 | 180 | X 2 M 63 07 F S S E | X 2 M 63 07 F S S F | F |

P1) Max. working pressure - P3) Max. peak pressure

For heavy-duty applications, it is recommended to check the admissible torque of the shaft

| Dimensions table | | | | | | | | | | |
|------------------|--------------|-------|------|-------|-----|----|------|-----|----|------|
| TYPE | Weight kg | A | B | C | D | E | F | D | E | F |
| | | mm | mm | mm | IN | | | OUT | | |
| XV-2M/04 | 2,100 | 87,2 | 38,6 | 77,2 | ø15 | 35 | M6x1 | ø15 | 35 | M6x1 |
| XV-2M/06 | 2,200 | 90,2 | 38,6 | 80,2 | ø15 | 35 | M6x1 | ø15 | 35 | M6x1 |
| XV-2M/09 | 2,300 | 94,2 | 40,6 | 84,2 | ø15 | 35 | M6x1 | ø15 | 35 | M6x1 |
| XV-2M/11 | 2,400 | 98,2 | 45,0 | 88,2 | ø15 | 35 | M6x1 | ø15 | 35 | M6x1 |
| XV-2M/14 | 2,600 | 104,2 | 45,0 | 94,2 | ø15 | 35 | M6x1 | ø15 | 35 | M6x1 |
| XV-2M/17 | 2,700 | 108,2 | 45,0 | 98,2 | ø15 | 35 | M6x1 | ø15 | 35 | M6x1 |
| XV-2M/19 | 2,800 | 112,2 | 45,0 | 102,2 | ø15 | 35 | M6x1 | ø15 | 35 | M6x1 |
| XV-2M/22 | 2,950 | 118,2 | 52,5 | 108,2 | ø15 | 35 | M6x1 | ø15 | 35 | M6x1 |
| XV-2M/26 | 3,050 | 122,2 | 52,5 | 112,2 | ø20 | 40 | M6x1 | ø20 | 40 | M6x1 |
| XV-2M/30 | 3,300 | 130,2 | 60,7 | 120,2 | ø20 | 40 | M6x1 | ø20 | 40 | M6x1 |
| XV-2M/34 | 3,500 | 137,2 | 60,7 | 127,2 | ø20 | 40 | M6x1 | ø20 | 40 | M6x1 |
| XV-2M/40 | 3,700 | 146,2 | 60,7 | 136,2 | ø20 | 40 | M6x1 | ø20 | 40 | M6x1 |



T.1 = 54÷58.9 [Nm] - screw tightening torque M10

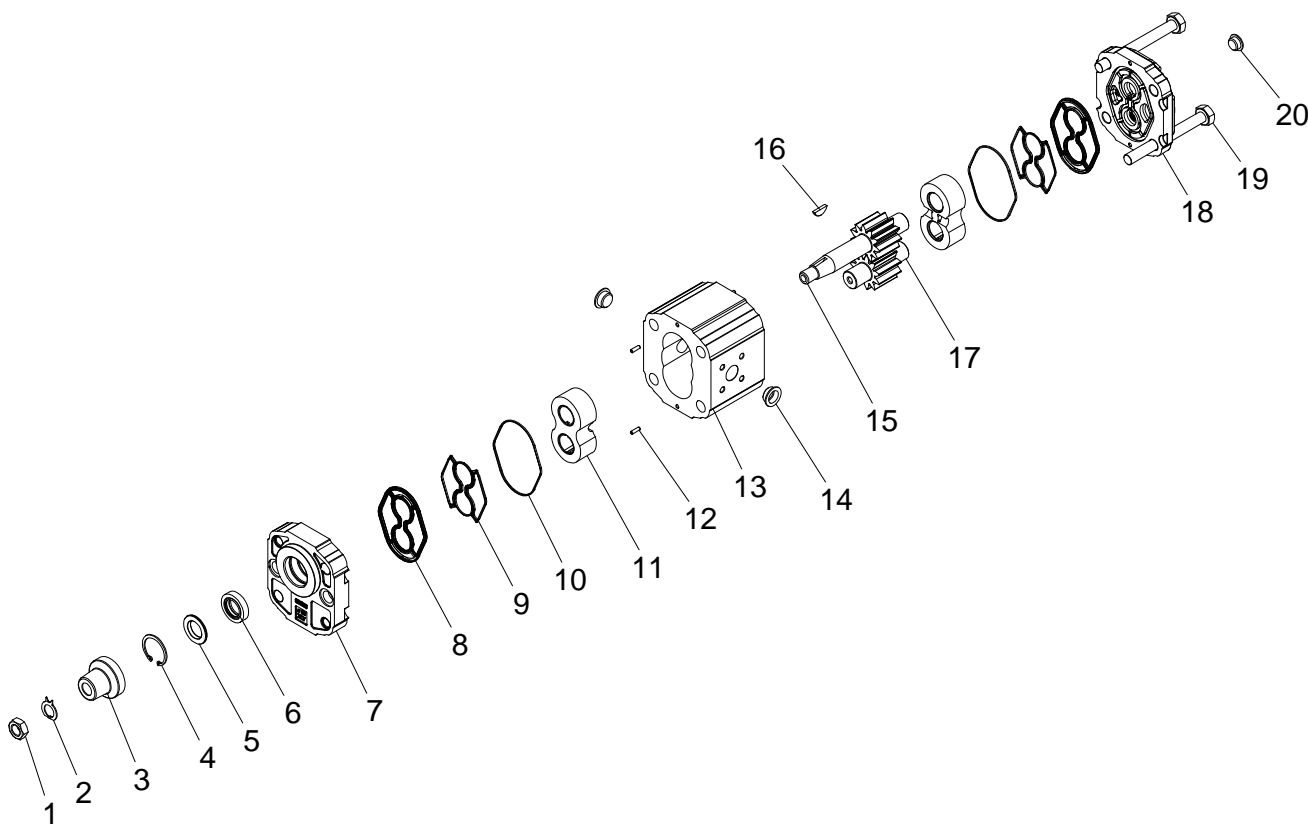
T.3 = 40 [Nm] - torque wrench setting 19

T.2 = 233.2 [Nm] - admissible shaft torque (N.B. When choosing a shaft, always check the admissible torque).

T.4 = 0.3÷0,5 bar - max. drainage pressure

| | |
|-----------|--------------|
| Reference | XM210 |
|-----------|--------------|

Example of ordering code:

X2M5107FRRE XV2M/17 - Ø50 BH /R - CO002 - Ø35 M6 # - Ø35 M6 # - Dren. est.


| Basic list | | | | |
|------------|--|------------|-------|----------|
| Pos. | Item description | Item | Size | Quantity |
| 1 | NUT M12x1,5 H=7 CH.17 | 200.0157.A | 0 | 1 |
| 2 | TAB WASHER ø12,5xø19 - CO001-CO002 XV2 | 200.0150.A | 0 | 1 |
| 3 | KEY PROTECTION XV2 | 590.0010.A | 0 | 1 |
| 4 | ø29 INTERNAL SNAP RING DIN 472 | 560.0020.A | 0 | 1 |
| 5 | BACK UP WASHER OIL SEAL XV2M | 200.0126.A | 0 | 1 |
| 6 | OIL SEAL 17.46 x 28.58 x 6.4 SCV | 690.0105.A | 0 | 1 |
| 7 | XV2 ø50 BH FLANGE | 200.0254.A | 0 | 1 |
| 8 | INJECTION-MOLDED SEAL XV2 (NBR 70÷75 SH) | 200.0190.C | 0 | 2 |
| 9 | XV2 BACK-UP ELEMENT FOR BALANCING | 200.0191.A | 0 | 2 |
| 10 | EXTERNAL BACK-UP ELEMENT XV2 | 200.0194.A | 0 | 2 |
| 11 | KV2P BUSH H=20 | 200.0012.A | 0 | 2 |
| 12 | PIN ø3x9,8 | 570.0005.A | 0 | 4 |
| 13 | BOSCH FLANGED BODY 15 35-M6# - 15 35-M6# - cc=17 | 200.0091.A | H68 | 1 |
| 14 | PLASTIC PLUG ø15,5 | 580.0001.A | D15,5 | 2 |
| 15 | CO002 BOSCH - TAPERED 1:5 DRIVING GEAR | 200.0047.A | CC17 | 1 |
| 16 | WOODRUFF KEY ø16x3 H=6,5 | 200.0142.A | 0 | 1 |
| 17 | COND2 - PERFORATED DRIVEN GEAR | 200.0010.A | CC17 | 1 |
| 18 | NEUTRAL XV2 COVER W/DRAINAGE 1/4" BSP | 200.0008.X | FZZZA | 1 |
| 19 | WHITE GALVANISED SCREW TE M10x95 UNI 5737 8.8 | 531.0010.A | L095 | 2 |
| 20 | PLASTIC PLUG ø12 | 580.0001.A | D12 | 1 |

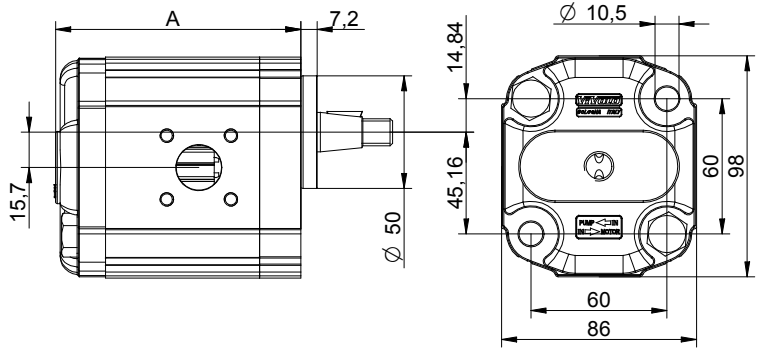
Table of variations

These two pages provide an overview of all the possible variations for customising a pump with a ø50 "HY" body-Shaped flange.

By filling in the missing data you can obtain the complete code of the product to be customised.



| | | |
|--------------|-----------|------------------|
| Series | X | series XV |
| Group | 2 | group 2 |
| Category | M | reversible motor |
| Displacement | | |
| Flange | | |
| Shaft | | |
| Body | IN OUT | |
| Cover | | |



ø50 "HY" Body-Shaped FLANGE

| | |
|--|------|
| | Code |
| | 13 |

| | |
|--|------|
| | Code |
| | 16 |

Shaft

| | | | |
|------------------|------|------------------|------|
| CI001 - Parallel | Code | CI002 - Parallel | Code |
| | A | | B |
| T.2 = 44.1 [Nm] | | T.2 = 67.5 [Nm] | |

| | | | |
|------------------|------|------------------|------|
| CO001 - Tapered | Code | CO002 - Tapered | Code |
| | E | | F |
| T.2 = 233.2 [Nm] | | T.2 = 233.2 [Nm] | |

| | | | |
|-----------------|------|--|------|
| SCF03 - Splined | Code | | Code |
| | H | | Z |
| T.2 = 86.1 [Nm] | | | |

Table of variations

| Displacement | | |
|--------------|------|-------|
| TYPE | CODE | A |
| | | mm |
| XV-2M/04 | 41 | 87,2 |
| XV-2M/06 | 43 | 90,2 |
| XV-2M/09 | 45 | 94,2 |
| XV-2M/11 | 47 | 98,2 |
| XV-2M/14 | 49 | 104,2 |
| XV-2M/17 | 51 | 108,2 |
| XV-2M/19 | 53 | 112,2 |
| XV-2M/22 | 55 | 118,2 |
| XV-2M/26 | 57 | 122,2 |
| XV-2M/30 | 59 | 130,2 |
| XV-2M/34 | 61 | 137,2 |
| XV-2M/40 | 63 | 146,2 |

| Standard bodies | | | | |
|-----------------|------------------|-------|-------|-------|
| Displacement | Standard threads | | | |
| | cm3/rev | | | |
| 04 | O - O | R - R | B - B | Z - Z |
| 06 | O - O | R - R | B - B | Z - Z |
| 09 | O - O | R - R | B - B | Z - Z |
| 11 | O - O | R - R | B - B | Z - Z |
| 14 | P - P | R - R | C - C | Z - Z |
| 17 | P - P | R - R | C - C | Z - Z |
| 19 | P - P | R - R | C - C | Z - Z |
| 22 | P - P | R - R | C - C | Z - Z |
| 26 | Q - P | S - S | D - D | Z - Z |
| 30 | Q - P | S - S | D - D | Z - Z |
| 34 | Q - P | S - S | D - D | Z - Z |
| 40 | Q - P | S - S | D - D | Z - Z |

Table showing standard flange and thread combinations available in stock

| Body (threads/flanges) | | | | | | | |
|------------------------|---|--|---|--|---|--|---|
| | A | | B | | C | | D |
| | E | | F | | G | | H |
| | I | | L | | M | | N |
| | O | | P | | Q | | R |
| | S | | T | | U | | V |
| Closed Body | Z | | | | | | |

| Cover | | Code |
|------------------------------|--|------|
| | | E |
| External drainage | | |
| | | F |
| Internal drainage | | |
| | | K |
| IN + OUT + external drainage | | |
| | | L |
| IN + OUT + internal drainage | | |

reversible motor - series XV

XV-2M

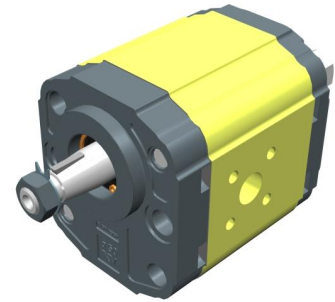
HY TYPE MOTOR

Ø50 BODY-SHAPED FLANGE - TAPER SHAFT



X 2 M 51 13 F R R E

| | | |
|--------------|-----|---|
| Series | X | series XV |
| Group | 2 | group 2 |
| Category | M | reversible motor |
| Displacement | 51 | 17 |
| Flange | 13 | Ø50 HY GERMAN STARDARDIZED reversible rotation |
| Shaft | F | CO002 - Tapered 1:5 - Ø17.4 - M12x1.5 - key thk.3 |
| Body | IN | inlet - Ø35 a 45° Ø15 M6 |
| | OUT | outlet - Ø35 a 45° Ø15 M6 |
| Cover | E | with external drainage |



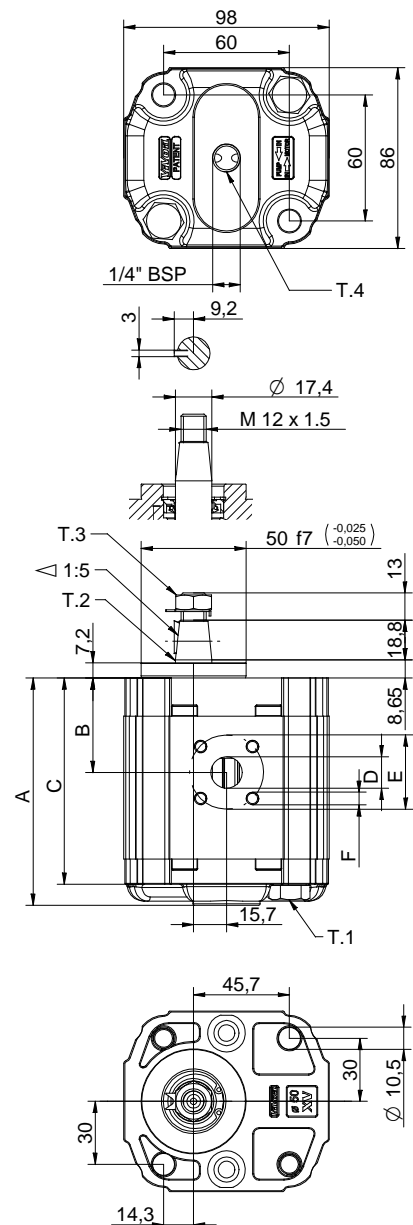
Reference **XM213**

| Technical data table | | | | | | | | | | | | | | | | | | | | | |
|----------------------|-------------------------|---------------|--------|-------------------|---|---|-------------------|----|---|---|---|---|---|---|---|----|----|---|---|---|---|
| TYPE | Displacement cm3/rev | Max. Pressure | | CODE | | | | | | | | | | | | | | | | | |
| | | P1 bar | P3 bar | External drainage | | | Internal drainage | | | | | | | | | | | | | | |
| XV-2M/04 | 4,20 | 260 | 300 | X | 2 | M | 41 | 13 | F | R | R | E | X | 2 | M | 41 | 13 | F | R | R | F |
| XV-2M/06 | 6,00 | 260 | 300 | X | 2 | M | 43 | 13 | F | R | R | E | X | 2 | M | 43 | 13 | F | R | R | F |
| XV-2M/09 | 8,40 | 260 | 300 | X | 2 | M | 45 | 13 | F | R | R | E | X | 2 | M | 45 | 13 | F | R | R | F |
| XV-2M/11 | 10,80 | 260 | 300 | X | 2 | M | 47 | 13 | F | R | R | E | X | 2 | M | 47 | 13 | F | R | R | F |
| XV-2M/14 | 14,40 | 250 | 290 | X | 2 | M | 49 | 13 | F | R | R | E | X | 2 | M | 49 | 13 | F | R | R | F |
| XV-2M/17 | 16,80 | 230 | 270 | X | 2 | M | 51 | 13 | F | R | R | E | X | 2 | M | 51 | 13 | F | R | R | F |
| XV-2M/19 | 19,20 | 210 | 250 | X | 2 | M | 53 | 13 | F | R | R | E | X | 2 | M | 53 | 13 | F | R | R | F |
| XV-2M/22 | 22,80 | 200 | 240 | X | 2 | M | 55 | 13 | F | R | R | E | X | 2 | M | 55 | 13 | F | R | R | F |
| XV-2M/26 | 26,20 | 170 | 210 | X | 2 | M | 57 | 13 | F | S | S | E | X | 2 | M | 57 | 13 | F | S | S | F |
| XV-2M/30 | 30,00 | 160 | 200 | X | 2 | M | 59 | 13 | F | S | S | E | X | 2 | M | 59 | 13 | F | S | S | F |
| XV-2M/34 | 34,20 | 150 | 190 | X | 2 | M | 61 | 13 | F | S | S | E | X | 2 | M | 61 | 13 | F | S | S | F |
| XV-2M/40 | 39,60 | 140 | 180 | X | 2 | M | 63 | 13 | F | S | S | E | X | 2 | M | 63 | 13 | F | S | S | F |

P1) Max. working pressure - P3) Max. peak pressure

For heavy-duty applications, it is recommended to check the admissible torque of the shaft

| Dimensions table | | | | | | | | | | |
|------------------|--------------|-------|------|-------|-----|----|------|-----|----|------|
| TYPE | Weight kg | A | B | C | D | E | F | D | E | F |
| | | mm | mm | mm | IN | | | OUT | | |
| XV-2M/04 | 2,100 | 87,2 | 38,6 | 77,2 | Ø15 | 35 | M6x1 | Ø15 | 35 | M6x1 |
| XV-2M/06 | 2,200 | 90,2 | 38,6 | 80,2 | Ø15 | 35 | M6x1 | Ø15 | 35 | M6x1 |
| XV-2M/09 | 2,300 | 94,2 | 40,6 | 84,2 | Ø15 | 35 | M6x1 | Ø15 | 35 | M6x1 |
| XV-2M/11 | 2,400 | 98,2 | 45,0 | 88,2 | Ø15 | 35 | M6x1 | Ø15 | 35 | M6x1 |
| XV-2M/14 | 2,600 | 104,2 | 45,0 | 94,2 | Ø15 | 35 | M6x1 | Ø15 | 35 | M6x1 |
| XV-2M/17 | 2,700 | 108,2 | 45,0 | 98,2 | Ø15 | 35 | M6x1 | Ø15 | 35 | M6x1 |
| XV-2M/19 | 2,800 | 112,2 | 45,0 | 102,2 | Ø15 | 35 | M6x1 | Ø15 | 35 | M6x1 |
| XV-2M/22 | 2,950 | 118,2 | 52,5 | 108,2 | Ø15 | 35 | M6x1 | Ø15 | 35 | M6x1 |
| XV-2M/26 | 3,050 | 122,2 | 52,5 | 112,2 | Ø20 | 40 | M6x1 | Ø20 | 40 | M6x1 |
| XV-2M/30 | 3,300 | 130,2 | 60,7 | 120,2 | Ø20 | 40 | M6x1 | Ø20 | 40 | M6x1 |
| XV-2M/34 | 3,500 | 137,2 | 60,7 | 127,2 | Ø20 | 40 | M6x1 | Ø20 | 40 | M6x1 |
| XV-2M/40 | 3,700 | 146,2 | 60,7 | 136,2 | Ø20 | 40 | M6x1 | Ø20 | 40 | M6x1 |



26/08/04 XZRS13FRRE.dft

T.1 = 54÷58.9 [Nm] - screw tightening torque M10

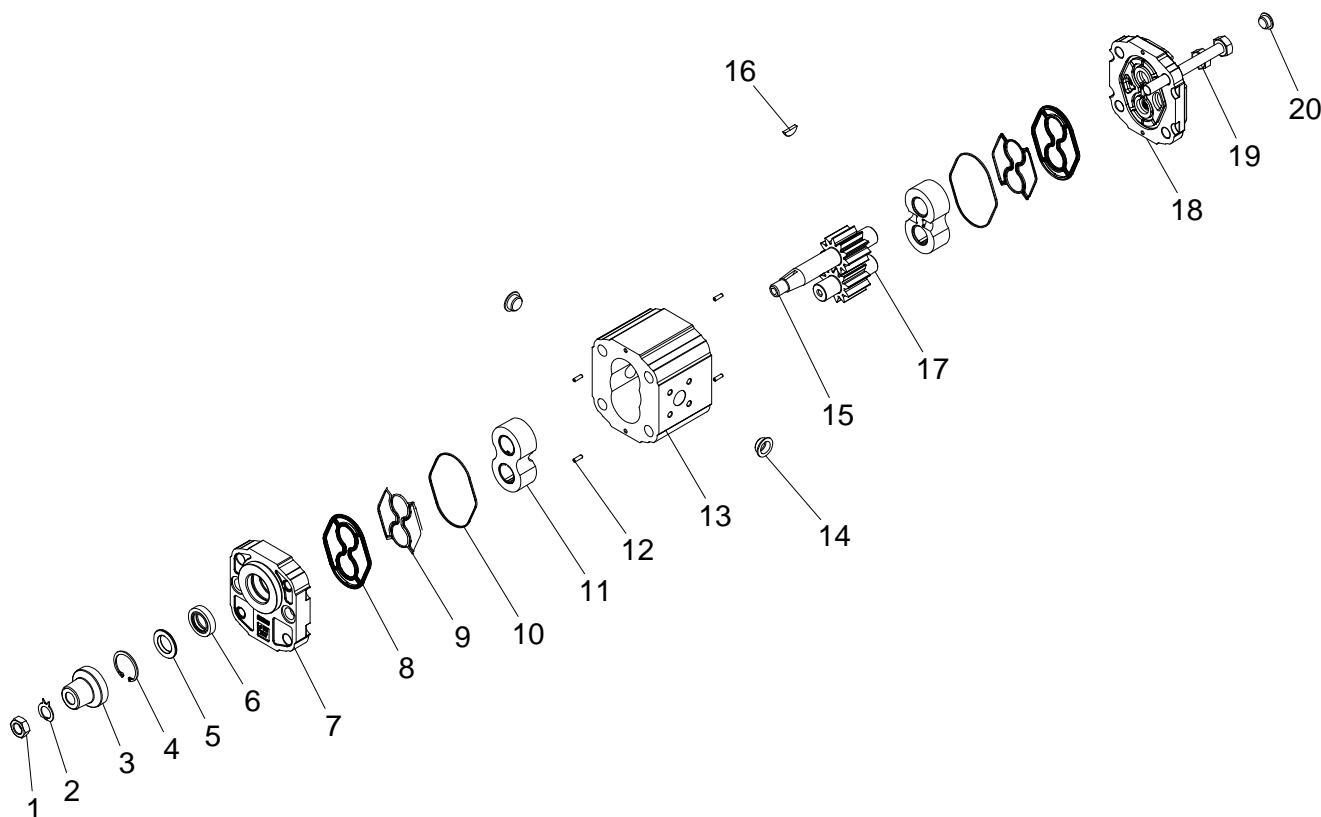
T.3 = 40 [Nm] - torque wrench setting 19

T.2 = 233.2 [Nm] - admissible shaft torque (N.B. When choosing a shaft, always check the admissible torque).

T.4 = 0.3÷0.5 bar - max. drainage pressure

| | |
|-----------|--------------|
| Reference | XM213 |
|-----------|--------------|

Example of ordering code:

X2M5113FRRE XV2M/17 - Ø50 HY /R - CO002 - Ø35 M6 # - Ø35 M6 # - Dren. est.


| Basic list | | | | |
|------------|--|------------|-------|----------|
| Pos. | Item description | Item | Size | Quantity |
| 1 | NUT M12x1,5 H=7 CH.17 | 200.0157.A | 0 | 1 |
| 2 | TAB WASHER ø12,5xø19 - CO001-CO002 XV2 | 200.0150.A | 0 | 1 |
| 3 | KEY PROTECTION XV2 | 590.0010.A | 0 | 1 |
| 4 | ø29 INTERNAL SNAP RING DIN 472 | 560.0020.A | 0 | 1 |
| 5 | BACK UP WASHER OIL SEAL XV2M | 200.0126.A | 0 | 1 |
| 6 | OIL SEAL 17.46 x 28.58 x 6.4 SCV | 690.0105.A | 0 | 1 |
| 7 | XV2 ø50 HY FLANGE | 200.0255.A | 0 | 1 |
| 8 | INJECTION-MOLDED SEAL XV2 (NBR 70÷75 SH) | 200.0190.C | 0 | 2 |
| 9 | XV2 BACK-UP ELEMENT FOR BALANCING | 200.0191.A | 0 | 2 |
| 10 | EXTERNAL BACK-UP ELEMENT XV2 | 200.0194.A | 0 | 2 |
| 11 | KV2P BUSH H=20 | 200.0012.A | 0 | 2 |
| 12 | PIN ø3x9,8 | 570.0005.A | 0 | 4 |
| 13 | BOSCH FLANGED BODY 15 35-M6# - 15 35-M6# - cc=17 | 200.0091.A | H68 | 1 |
| 14 | PLASTIC PLUG ø15,5 | 580.0001.A | D15,5 | 2 |
| 15 | CO002 BOSCH - TAPERED 1:5 DRIVING GEAR | 200.0047.A | CC17 | 1 |
| 16 | WOODRUFF KEY ø16x3 H=6,5 | 200.0142.A | 0 | 1 |
| 17 | COND2 - PERFORATED DRIVEN GEAR | 200.0010.A | CC17 | 1 |
| 18 | NEUTRAL XV2 COVER W/DRAINAGE 1/4" BSP | 200.0008.X | FZZZA | 1 |
| 19 | WHITE GALVANISED SCREW TE M10x95 UNI 5737 8.8 | 531.0010.A | L095 | 2 |
| 20 | PLASTIC PLUG ø12 | 580.0001.A | D12 | 1 |

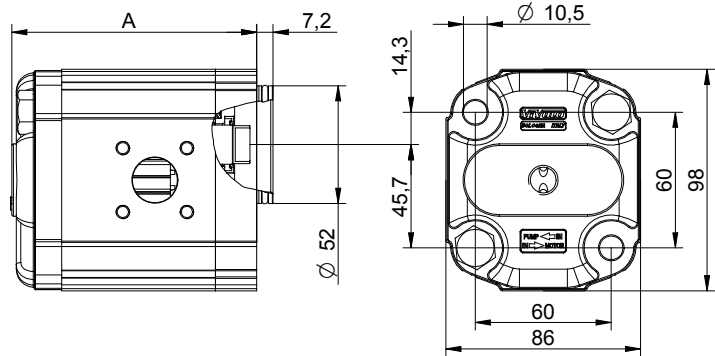
Table of variations

These two pages provide an overview of all the possible variations for customising a pump with a $\varnothing 52$ "BH" Standard German flange.

By filling in the missing data you can obtain the complete code of the product to be customised.



| | | |
|--------------|-----|--|
| Series | X | series XV group 2 reversible motor |
| Group | 2 | |
| Category | M | |
| Displacement | | |
| Flange | | |
| Shaft | | |
| Body | IN | |
| | OUT | |
| Cover | | |




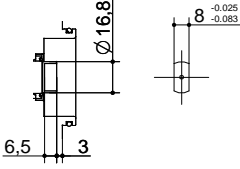
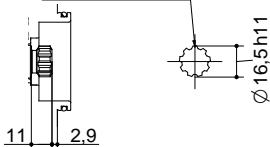
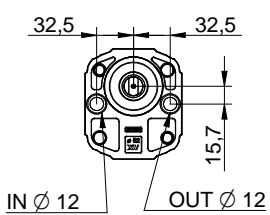
| Standard German $\varnothing 52$ "BH" FLANGE | | Shaft | | |
|--|------|--|--|---|
| | Code | | Code | |
|  | 19 | CF001 - Milled shank  T.2 = 60.5 [Nm] | C SCF05 - Splined m=1.6 Z=9 DIN 5482 - 17x14  T.2 = 86.2 [Nm] | K |
| | |  | | |

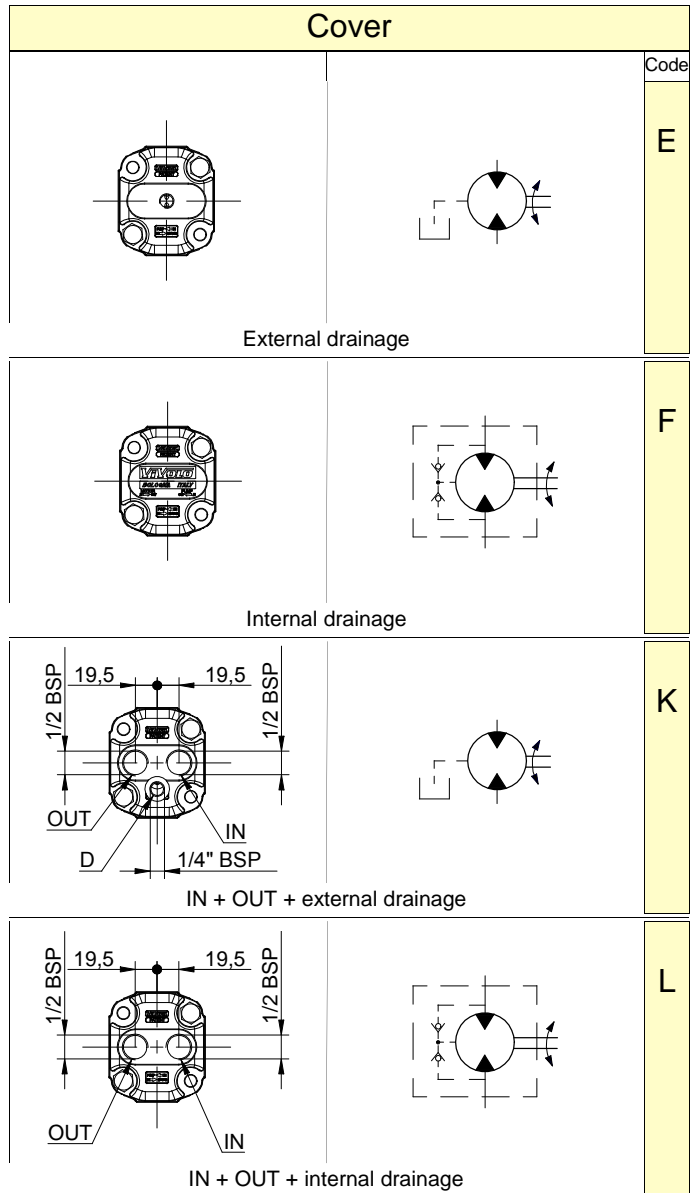
Table of variations

| Displacement | | |
|--------------|------|-------|
| TYPE | CODE | A |
| | | mm |
| XV-2M/04 | 41 | 87,2 |
| XV-2M/06 | 43 | 90,2 |
| XV-2M/09 | 45 | 94,2 |
| XV-2M/11 | 47 | 98,2 |
| XV-2M/14 | 49 | 104,2 |
| XV-2M/17 | 51 | 108,2 |
| XV-2M/19 | 53 | 112,2 |
| XV-2M/22 | 55 | 118,2 |
| XV-2M/26 | 57 | 122,2 |
| XV-2M/30 | 59 | 130,2 |
| XV-2M/34 | 61 | 137,2 |
| XV-2M/40 | 63 | 146,2 |

| Standard bodies | | | | |
|-----------------|------------------|-------|-------|-------|
| Displacement | Standard threads | | | |
| | cm3/rev | | | |
| 04 | O - O | R - R | B - B | Z - Z |
| 06 | O - O | R - R | B - B | Z - Z |
| 09 | O - O | R - R | B - B | Z - Z |
| 11 | O - O | R - R | B - B | Z - Z |
| 14 | P - P | R - R | C - C | Z - Z |
| 17 | P - P | R - R | C - C | Z - Z |
| 19 | P - P | R - R | C - C | Z - Z |
| 22 | P - P | R - R | C - C | Z - Z |
| 26 | Q - P | S - S | D - D | Z - Z |
| 30 | Q - P | S - S | D - D | Z - Z |
| 34 | Q - P | S - S | D - D | Z - Z |
| 40 | Q - P | S - S | D - D | Z - Z |

Table showing standard flange and thread combinations available in stock

| Body (threads/flanges) | | | | | | | |
|------------------------|---|--|---|--|---|--|---|
| | A | | B | | C | | D |
| | E | | F | | G | | H |
| | I | | L | | M | | N |
| | O | | P | | Q | | R |
| | S | | T | | U | | V |
| Closed Body | Z | | | | | | |



reversible motor - series XV

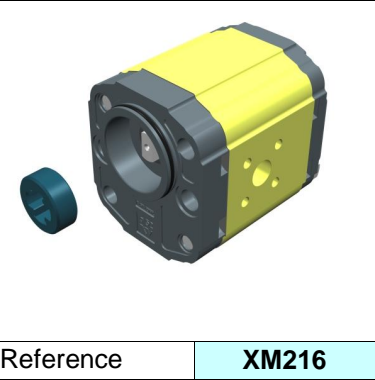
XV-2M

STANDARD GERMAN "BH" TYPE MOTOR
 ø52 BODY-SHAPED FLANGE - MILLED SHANK



X 2 M 51 19 C R R E

| | | |
|--------------|-----|---|
| Series | X | series XV |
| Group | 2 | group 2 |
| Category | M | reversible motor |
| Displacement | 51 | 17 |
| Flange | 19 | Ø52 GERMAN STANDARDIZED reversible rotation (with OR) |
| Shaft | C | CF001 - Milled shank ø15 - thk.8 ("BH" Standard German) |
| Body | IN | R inlet - Ø35 a 45° Ø15 M6 |
| | OUT | R outlet - Ø35 a 45° Ø15 M6 |
| Cover | E | with external drainage |



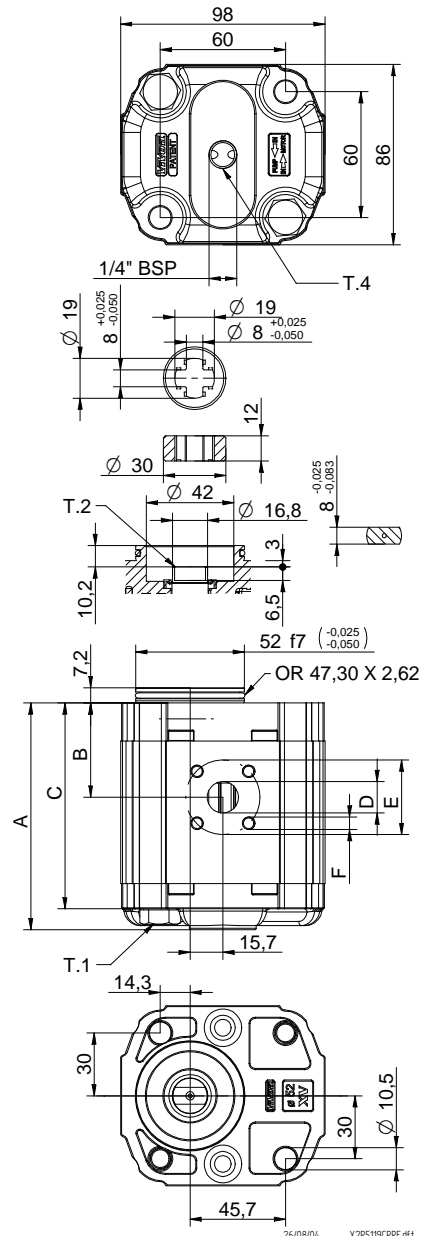
Reference **XM216**

| Technical data table | | | | | | | | | | | | | | | | | | | | | |
|----------------------|-------------------------|---------------|--------|-------------------|---|---|-------------------|----|---|---|---|---|---|---|---|----|----|---|---|---|---|
| TYPE | Displacement cm3/rev | Max. Pressure | | CODE | | | | | | | | | | | | | | | | | |
| | | P1 bar | P3 bar | External drainage | | | Internal drainage | | | | | | | | | | | | | | |
| XV-2M/04 | 4,20 | 260 | 300 | X | 2 | M | 41 | 19 | C | R | R | E | X | 2 | M | 41 | 19 | C | R | R | F |
| XV-2M/06 | 6,00 | 260 | 300 | X | 2 | M | 43 | 19 | C | R | R | E | X | 2 | M | 43 | 19 | C | R | R | F |
| XV-2M/09 | 8,40 | 260 | 300 | X | 2 | M | 45 | 19 | C | R | R | E | X | 2 | M | 45 | 19 | C | R | R | F |
| XV-2M/11 | 10,80 | 260 | 300 | X | 2 | M | 47 | 19 | C | R | R | E | X | 2 | M | 47 | 19 | C | R | R | F |
| XV-2M/14 | 14,40 | 250 | 290 | X | 2 | M | 49 | 19 | C | R | R | E | X | 2 | M | 49 | 19 | C | R | R | F |
| XV-2M/17 | 16,80 | 230 | 270 | X | 2 | M | 51 | 19 | C | R | R | E | X | 2 | M | 51 | 19 | C | R | R | F |
| XV-2M/19 | 19,20 | 210 | 250 | X | 2 | M | 53 | 19 | C | R | R | E | X | 2 | M | 53 | 19 | C | R | R | F |
| XV-2M/22 | 22,80 | 200 | 240 | X | 2 | M | 55 | 19 | C | R | R | E | X | 2 | M | 55 | 19 | C | R | R | F |
| XV-2M/26 | 26,20 | 170 | 210 | X | 2 | M | 57 | 19 | C | S | S | E | X | 2 | M | 57 | 19 | C | S | S | F |
| XV-2M/30 | 30,00 | 160 | 200 | X | 2 | M | 59 | 19 | C | S | S | E | X | 2 | M | 59 | 19 | C | S | S | F |
| XV-2M/34 | 34,20 | 150 | 190 | X | 2 | M | 61 | 19 | C | S | S | E | X | 2 | M | 61 | 19 | C | S | S | F |
| XV-2M/40 | 39,60 | 140 | 180 | X | 2 | M | 63 | 19 | C | S | S | E | X | 2 | M | 63 | 19 | C | S | S | F |

P1) Max. working pressure - P3) Max. peak pressure

For heavy-duty applications, it is recommended to check the admissible torque of the shaft

| Dimensions table | | | | | | | | | | |
|------------------|--------------|-------|------|-------|-----|----|------|-----|----|------|
| TYPE | Weight kg | A | B | C | D | E | F | D | E | F |
| | | mm | mm | mm | IN | | | OUT | | |
| XV-2M/04 | 2,100 | 87,2 | 38,6 | 77,2 | ø15 | 35 | M6x1 | ø15 | 35 | M6x1 |
| XV-2M/06 | 2,200 | 90,2 | 38,6 | 80,2 | ø15 | 35 | M6x1 | ø15 | 35 | M6x1 |
| XV-2M/09 | 2,300 | 94,2 | 40,6 | 84,2 | ø15 | 35 | M6x1 | ø15 | 35 | M6x1 |
| XV-2M/11 | 2,400 | 98,2 | 45,0 | 88,2 | ø15 | 35 | M6x1 | ø15 | 35 | M6x1 |
| XV-2M/14 | 2,600 | 104,2 | 45,0 | 94,2 | ø15 | 35 | M6x1 | ø15 | 35 | M6x1 |
| XV-2M/17 | 2,700 | 108,2 | 45,0 | 98,2 | ø15 | 35 | M6x1 | ø15 | 35 | M6x1 |
| XV-2M/19 | 2,800 | 112,2 | 45,0 | 102,2 | ø15 | 35 | M6x1 | ø15 | 35 | M6x1 |
| XV-2M/22 | 2,950 | 118,2 | 52,5 | 108,2 | ø15 | 35 | M6x1 | ø15 | 35 | M6x1 |
| XV-2M/26 | 3,050 | 122,2 | 52,5 | 112,2 | ø20 | 40 | M6x1 | ø20 | 40 | M6x1 |
| XV-2M/30 | 3,300 | 130,2 | 60,7 | 120,2 | ø20 | 40 | M6x1 | ø20 | 40 | M6x1 |
| XV-2M/34 | 3,500 | 137,2 | 60,7 | 127,2 | ø20 | 40 | M6x1 | ø20 | 40 | M6x1 |
| XV-2M/40 | 3,700 | 146,2 | 60,7 | 136,2 | ø20 | 40 | M6x1 | ø20 | 40 | M6x1 |



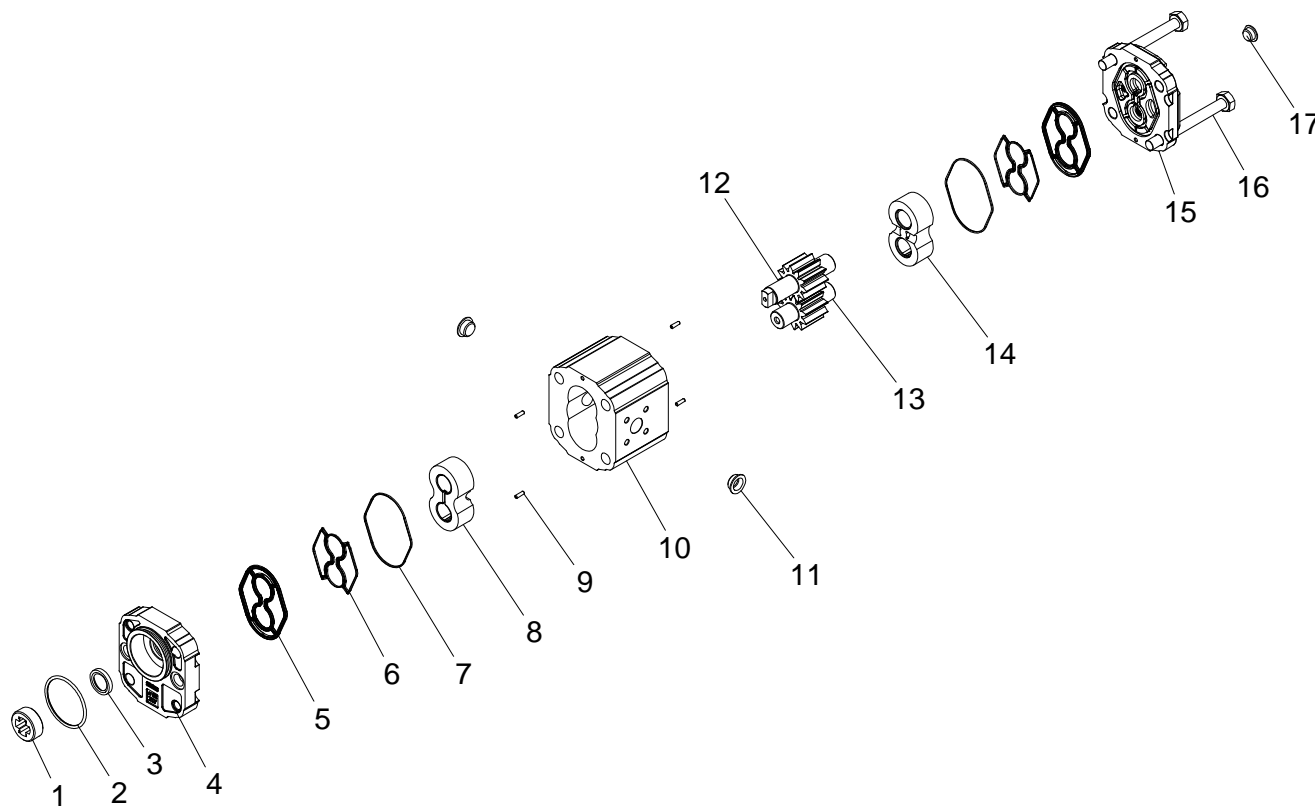
T.1 = 54÷58.9 [Nm] - screw tightening torque M10

T.2 = 60.5 [Nm] - admissible shaft torque (N.B. When choosing a shaft, always check the admissible torque).

T.4 = 0.3÷0.5 bar - max. drainage pressure

| | |
|-----------|--------------|
| Reference | XM216 |
|-----------|--------------|

Example of ordering code:

X2M5119CRRE XV2M/17 - ø52 /R - CF001 - ø35 M6 # - ø35 M6 # - Dren. est.


| Basic list | | | | |
|------------|---|------------|-------|----------|
| Pos. | Item description | Item | Size | Quantity |
| 1 | STANDARD PASSING CROSS COUPLING (MILLED 8-8) - ø52 FLANGE | 200.0021.A | 0 | 1 |
| 2 | OR 47.30 x 2.62 | 650.0070.A | 0 | 1 |
| 3 | OIL SEAL 17 x 25 x 4 SC (BA) | 690.0035.A | 0 | 1 |
| 4 | XV2 ø52 BH FLANGE | 200.0256.X | 0 | 1 |
| 5 | INJECTION-MOLDED SEAL XV2 (NBR 70÷75 SH) | 200.0190.C | 0 | 2 |
| 6 | XV2 BACK-UP ELEMENT FOR BALANCING | 200.0191.A | 0 | 2 |
| 7 | EXTERNAL BACK-UP ELEMENT XV2 | 200.0194.A | 0 | 2 |
| 8 | XV2 BUSH H=20 (with channel) | 200.0001.A | 0 | 1 |
| 9 | PIN ø3x9,8 | 570.0005.A | 0 | 4 |
| 10 | BOSCH FLANGED BODY 15 35-M6# - 15 35-M6# - cc=17 | 200.0091.A | H68 | 1 |
| 11 | PLASTIC PLUG ø15,5 | 580.0001.A | D15,5 | 2 |
| 12 | CF001 - DRIVING GEAR MILLED SHANK | 200.0041.A | CC17 | 1 |
| 13 | COND2 - PERFORATED DRIVEN GEAR | 200.0010.A | CC17 | 1 |
| 14 | KV2P BUSH H=20 | 200.0012.A | 0 | 1 |
| 15 | NEUTRAL XV2 COVER W/DRAINAGE 1/4" BSP | 200.0008.X | FZZZA | 1 |
| 16 | WHITE GALVANISED SCREW TE M10x95 UNI 5737 8.8 | 531.0010.A | L095 | 2 |
| 17 | PLASTIC PLUG ø12 | 580.0001.A | D12 | 1 |

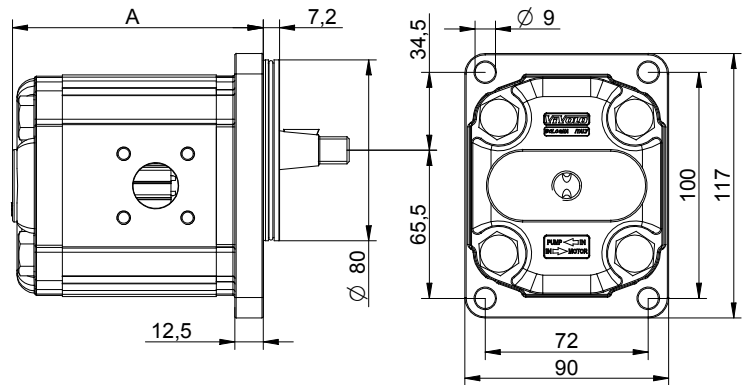
Table of variations

These two pages provide an overview of all the possible variations for customising a pump with a ø80 flange.

By filling in the missing data you can obtain the complete code of the product to be customised.



| | | |
|--------------|-----------|------------------|
| Series | X | series XV |
| Group | 2 | |
| Category | M | reversible motor |
| Displacement | | |
| Flange | | |
| Shaft | | |
| Body | IN OUT | |
| Cover | | |



ø80 FLANGE

Code
25

| Shaft | | Code | Code |
|---|----------|--|----------|
| <p>CI001 - Parallel</p> <p>T.2 = 44.1 [Nm]</p> | A | <p>CI002 - Parallel</p> <p>T.2 = 67.5 [Nm]</p> | B |
| <p>CO001 - Tapered</p> <p>T.2 = 233.2 [Nm]</p> | E | <p>CO002 - Tapered</p> <p>T.2 = 233.2 [Nm]</p> | F |
| <p>SCF03 - Splined</p> <p>m=1.6 Z=9 DIN 5482 - 17x14</p> <p>T.2 = 86.1 [Nm]</p> | H | | Z |

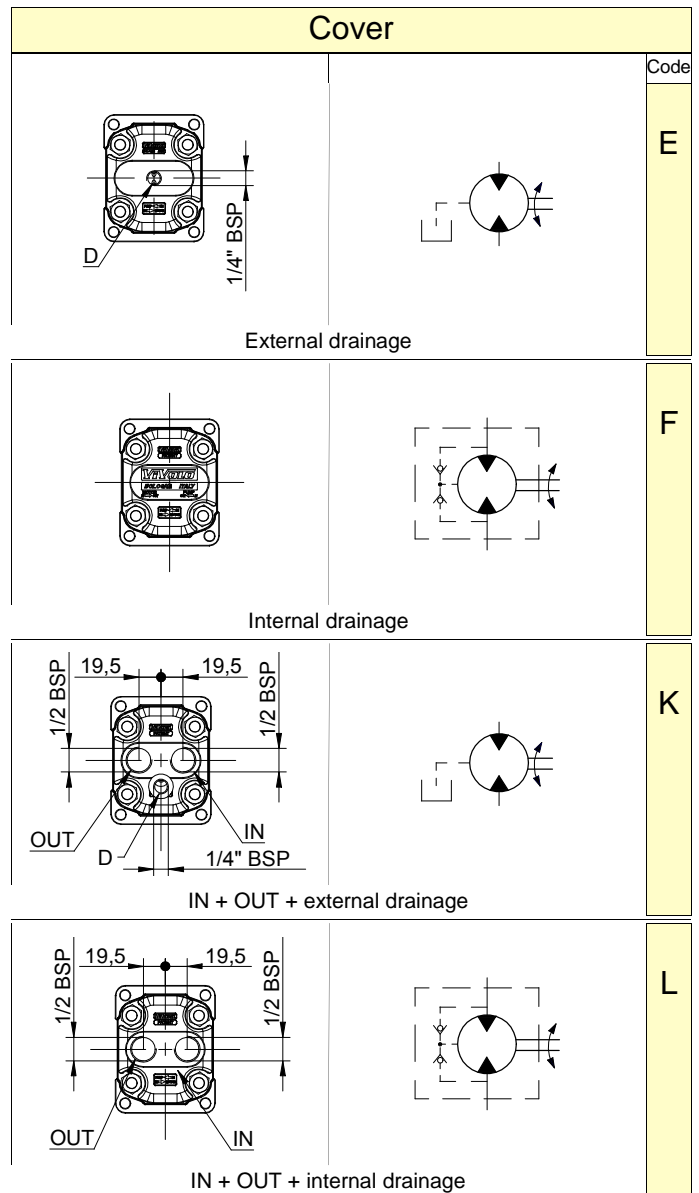
Table of variations

| Displacement | | |
|--------------|------|-------|
| TYPE | CODE | A |
| | | mm |
| XV-2M/04 | 41 | 89,7 |
| XV-2M/06 | 43 | 92,7 |
| XV-2M/09 | 45 | 96,7 |
| XV-2M/11 | 47 | 100,7 |
| XV-2M/14 | 49 | 106,7 |
| XV-2M/17 | 51 | 110,7 |
| XV-2M/19 | 53 | 114,7 |
| XV-2M/22 | 55 | 120,7 |
| XV-2M/26 | 57 | 124,7 |
| XV-2M/30 | 59 | 132,7 |
| XV-2M/34 | 61 | 139,7 |
| XV-2M/40 | 63 | 148,7 |

| Standard bodies | | | | |
|-----------------|------------------|-------|-------|-------|
| Displacement | Standard threads | | | |
| | cm3/rev | | | |
| 04 | O - O | R - R | B - B | Z - Z |
| 06 | O - O | R - R | B - B | Z - Z |
| 09 | O - O | R - R | B - B | Z - Z |
| 11 | O - O | R - R | B - B | Z - Z |
| 14 | P - P | R - R | C - C | Z - Z |
| 17 | P - P | R - R | C - C | Z - Z |
| 19 | P - P | R - R | C - C | Z - Z |
| 22 | P - P | R - R | C - C | Z - Z |
| 26 | Q - P | S - S | D - D | Z - Z |
| 30 | Q - P | S - S | D - D | Z - Z |
| 34 | Q - P | S - S | D - D | Z - Z |
| 40 | Q - P | S - S | D - D | Z - Z |

Table showing standard flange and thread combinations available in stock

| Body (threads/flanges) | | | | |
|------------------------|---|--|---|--|
| | A | | B | |
| | D | | E | |
| | G | | H | |
| | J | | K | |
| | M | | N | |
| | P | | Q | |
| | S | | T | |
| | V | | W | |
| Closed Body | Z | | | |



reversible motor - series XV

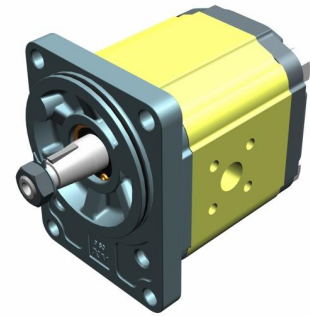
XV-2M

STANDARD GERMAN MOTOR
ø80 FLANGE - TAPER SHAFT



X 2 M 51 25 F R R E

| | | |
|--------------|-----|---|
| Series | X | series XV |
| Group | 2 | group 2 |
| Category | M | reversible motor |
| Displacement | 51 | 17 |
| Flange | 25 | Ø80 GERMAN STANDARDIZED reversible rotation (with OR) |
| Shaft | F | CO002 - Tapered 1:5 - ø17.4 - M12x1.5 - key thk.3 |
| Body | IN | inlet - Ø35 a 45° Ø15 M6 |
| | OUT | outlet - Ø35 a 45° Ø15 M6 |
| Cover | E | with external drainage |



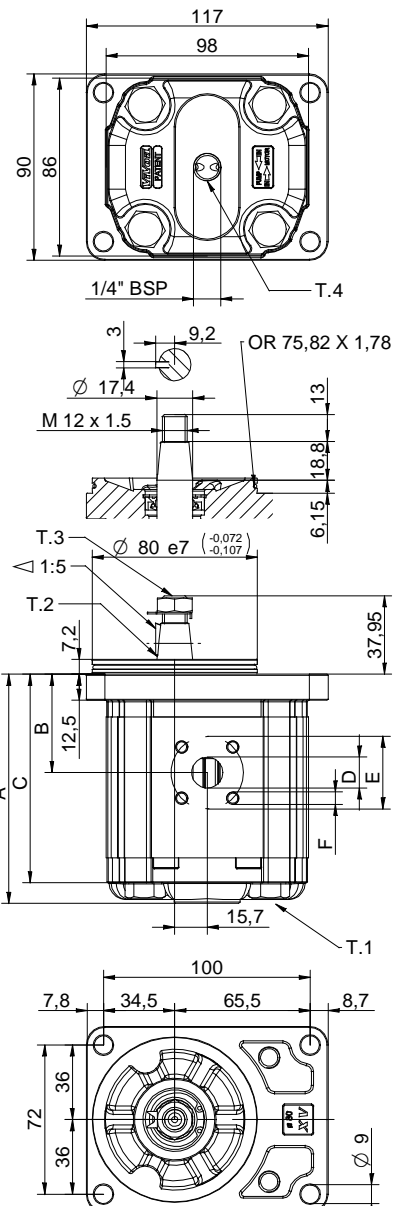
Reference **XM217**

| Technical data table | | | | | | |
|----------------------|--------------------------------------|---------------|--------|---------------------|---------------------|-------------------|
| TYPE | Displacement cm ³ /rev | Max. Pressure | | CODE | | |
| | | P1 bar | P3 bar | External drainage | | Internal drainage |
| XV-2M/04 | 4,20 | 260 | 300 | X 2 M 41 25 F R R E | X 2 M 41 25 F R R F | |
| XV-2M/06 | 6,00 | 260 | 300 | X 2 M 43 25 F R R E | X 2 M 43 25 F R R F | |
| XV-2M/09 | 8,40 | 260 | 300 | X 2 M 45 25 F R R E | X 2 M 45 25 F R R F | |
| XV-2M/11 | 10,80 | 260 | 300 | X 2 M 47 25 F R R E | X 2 M 47 25 F R R F | |
| XV-2M/14 | 14,40 | 250 | 290 | X 2 M 49 25 F R R E | X 2 M 49 25 F R R F | |
| XV-2M/17 | 16,80 | 230 | 270 | X 2 M 51 25 F R R E | X 2 M 51 25 F R R F | |
| XV-2M/19 | 19,20 | 210 | 250 | X 2 M 53 25 F R R E | X 2 M 53 25 F R R F | |
| XV-2M/22 | 22,80 | 200 | 240 | X 2 M 55 25 F R R E | X 2 M 55 25 F R R F | |
| XV-2M/26 | 26,20 | 170 | 210 | X 2 M 57 25 F S S E | X 2 M 57 25 F S S F | |
| XV-2M/30 | 30,00 | 160 | 200 | X 2 M 59 25 F S S E | X 2 M 59 25 F S S F | |
| XV-2M/34 | 34,20 | 150 | 190 | X 2 M 61 25 F S S E | X 2 M 61 25 F S S F | |
| XV-2M/40 | 39,60 | 140 | 180 | X 2 M 63 25 F S S E | X 2 M 63 25 F S S F | |

P1) Max. working pressure - P3) Max. peak pressure

For heavy-duty applications, it is recommended to check the admissible torque of the shaft

| Dimensions table | | | | | | | | | | |
|------------------|--------------|-------|------|-------|-----|----|------|-----|----|------|
| TYPE | Weight kg | A | B | C | D | E | F | D | E | F |
| | | mm | mm | mm | IN | | | OUT | | |
| XV-2M/04 | 2,330 | 89,7 | 41,1 | 79,7 | ø15 | 35 | M6x1 | ø15 | 35 | M6x1 |
| XV-2M/06 | 2,430 | 92,7 | 41,1 | 82,7 | ø15 | 35 | M6x1 | ø15 | 35 | M6x1 |
| XV-2M/09 | 2,530 | 96,7 | 43,1 | 86,7 | ø15 | 35 | M6x1 | ø15 | 35 | M6x1 |
| XV-2M/11 | 2,630 | 100,7 | 47,5 | 90,7 | ø15 | 35 | M6x1 | ø15 | 35 | M6x1 |
| XV-2M/14 | 2,730 | 106,7 | 47,5 | 96,7 | ø15 | 35 | M6x1 | ø15 | 35 | M6x1 |
| XV-2M/17 | 2,830 | 110,7 | 47,5 | 100,7 | ø15 | 35 | M6x1 | ø15 | 35 | M6x1 |
| XV-2M/19 | 2,930 | 114,7 | 47,5 | 104,7 | ø15 | 35 | M6x1 | ø15 | 35 | M6x1 |
| XV-2M/22 | 3,180 | 120,7 | 55,0 | 110,7 | ø15 | 35 | M6x1 | ø15 | 35 | M6x1 |
| XV-2M/26 | 3,280 | 124,7 | 55,0 | 114,7 | ø20 | 40 | M6x1 | ø20 | 40 | M6x1 |
| XV-2M/30 | 3,530 | 132,7 | 63,2 | 122,7 | ø20 | 40 | M6x1 | ø20 | 40 | M6x1 |
| XV-2M/34 | 3,730 | 139,7 | 63,2 | 129,7 | ø20 | 40 | M6x1 | ø20 | 40 | M6x1 |
| XV-2M/40 | 3,930 | 148,7 | 63,2 | 138,7 | ø20 | 40 | M6x1 | ø20 | 40 | M6x1 |



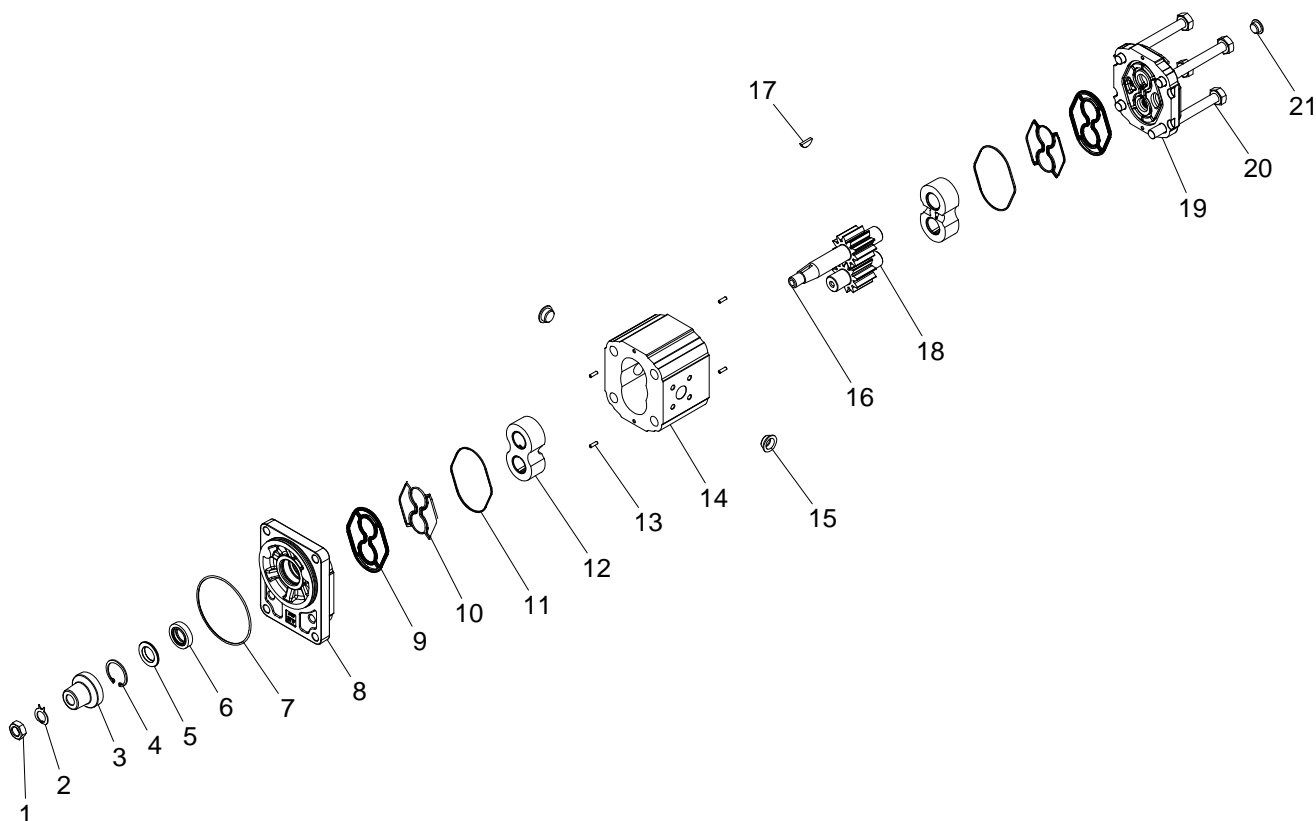
T.1 = 54÷58.9 [Nm] - screw tightening torque M10

T.3 = 40 [Nm] - torque wrench setting 19

T.2 = 233.2 [Nm] - admissible shaft torque (N.B. When choosing a shaft, always check the admissible torque).

T.4 = 0.3÷0.5 bar - max. drainage pressure

Example of ordering code:

X2M5125FRRE XV2M/17 - Ø80 /R - CO002 - Ø35 M6 # - Ø35 M6 # - Dren. est.

Basic list

| Pos. | Item description | Item | Size | Quantity |
|------|--|------------|-------|----------|
| 1 | NUT M12x1,5 H=7 CH.17 | 200.0157.A | 0 | 1 |
| 2 | TAB WASHER ø12,5xø19 - CO001-CO002 XV2 | 200.0150.A | 0 | 1 |
| 3 | KEY PROTECTION XV2 | 590.0010.A | 0 | 1 |
| 4 | ø29 INTERNAL SNAP RING DIN 472 | 560.0020.A | 0 | 1 |
| 5 | BACK UP WASHER OIL SEAL XV2M | 200.0126.A | 0 | 1 |
| 6 | OIL SEAL 17.46 x 28.58 x 6.4 SCV | 690.0105.A | 0 | 1 |
| 7 | OR 75.92 x 1.78 | 640.0130.A | 0 | 1 |
| 8 | XV2 ø80 BOSCH FLANGE | 200.0239.A | 0 | 1 |
| 9 | INJECTION-MOLDED SEAL XV2 (NBR 70÷75 SH) | 200.0190.C | 0 | 2 |
| 10 | XV2 BACK-UP ELEMENT FOR BALANCING | 200.0191.A | 0 | 2 |
| 11 | EXTERNAL BACK-UP ELEMENT XV2 | 200.0194.A | 0 | 2 |
| 12 | KV2P BUSH H=20 | 200.0012.A | 0 | 2 |
| 13 | PIN ø3x9,8 | 570.0005.A | 0 | 4 |
| 14 | BOSCH FLANGED BODY 15 35-M6# - 15 35-M6# - cc=17 | 200.0091.A | H68 | 1 |
| 15 | PLASTIC PLUG ø15,5 | 580.0001.A | D15,5 | 2 |
| 16 | CO002 BOSCH - TAPERED 1:5 DRIVING GEAR | 200.0047.A | CC17 | 1 |
| 17 | WOODRUFF KEY ø16x3 H=6,5 | 200.0142.A | 0 | 1 |
| 18 | COND2 - PERFORATED DRIVEN GEAR | 200.0010.A | CC17 | 1 |
| 19 | NEUTRAL XV2 COVER W/DRAINAGE 1/4" BSP | 200.0008.X | FZZZA | 1 |
| 20 | WHITE GALVANISED SCREW TE M10x95 UNI 5737 8.8 | 531.0010.A | L095 | 4 |
| 21 | PLASTIC PLUG ø12 | 580.0001.A | D12 | 1 |

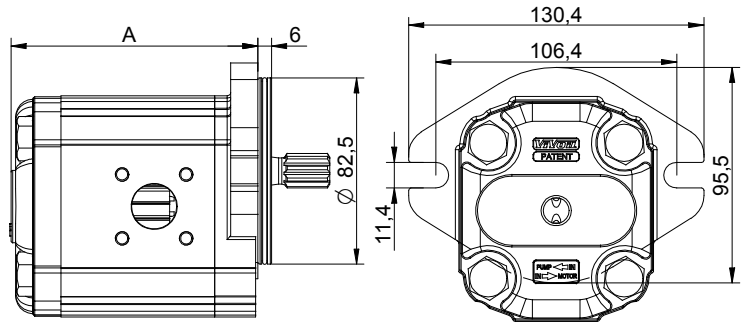
Table of variations

These two pages provide an overview of all the possible variations for customising a pump with a ø82.5 flange.

By filling in the missing data you can obtain the complete code of the product to be customised.



| | | |
|--------------|-----------|------------------|
| Series | X | series XV |
| Group | 2 | group 2 |
| Category | M | reversible motor |
| Displacement | | |
| Flange | | |
| Shaft | | |
| Body | IN OUT | |
| Cover | | |



| ø82.5 FLANGE "SAE A" | |
|----------------------|--------------------------|
| | Code 31 |
| | 32 |

| Shaft | | | |
|--|----------|---|----------|
| | | Code | Code |
| CI001 - Parallel T.2 = 44.1 [Nm] | A | CI002 - Parallel T.2 = 67.5 [Nm] | B |
| CO001 - Tapered T.2 = 233.2 [Nm] | E | CO002 - Tapered T.2 = 233.2 [Nm] | F |
| SCF04 - Splined SAE J 498 9T 16/32 DP T.2 = 67.1 [Nm] | I | | Z |

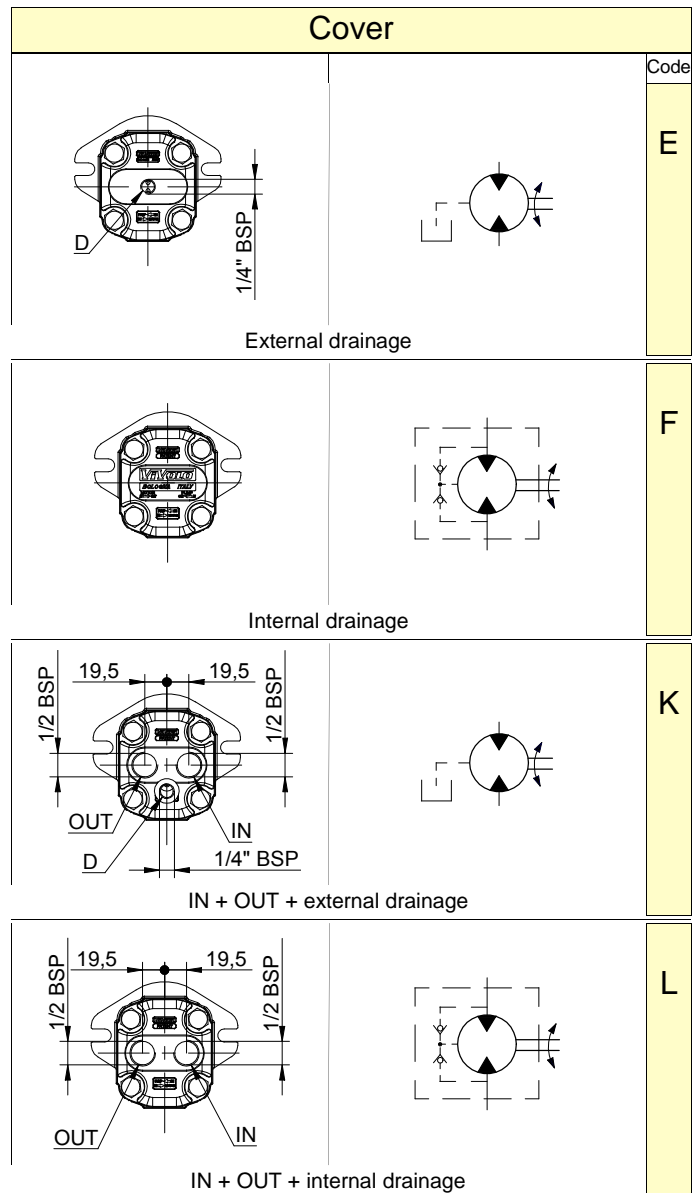
Table of variations

| Displacement | | |
|--------------|------|-------|
| TYPE | CODE | A |
| | | mm |
| XV-2M/04 | 41 | 88,0 |
| XV-2M/06 | 43 | 91,0 |
| XV-2M/09 | 45 | 95,0 |
| XV-2M/11 | 47 | 99,0 |
| XV-2M/14 | 49 | 105,0 |
| XV-2M/17 | 51 | 109,0 |
| XV-2M/19 | 53 | 113,0 |
| XV-2M/22 | 55 | 119,0 |
| XV-2M/26 | 57 | 123,0 |
| XV-2M/30 | 59 | 131,0 |
| XV-2M/34 | 61 | 138,0 |
| XV-2M/40 | 63 | 147,0 |

| Standard bodies | | | | |
|-----------------|------------------|-------|-------|-------|
| Displacement | Standard threads | | | |
| | cm3/rev | | | |
| 04 | O - O | R - R | B - B | Z - Z |
| 06 | O - O | R - R | B - B | Z - Z |
| 09 | O - O | R - R | B - B | Z - Z |
| 11 | O - O | R - R | B - B | Z - Z |
| 14 | P - P | R - R | C - C | Z - Z |
| 17 | P - P | R - R | C - C | Z - Z |
| 19 | P - P | R - R | C - C | Z - Z |
| 22 | P - P | R - R | C - C | Z - Z |
| 26 | Q - P | S - S | D - D | Z - Z |
| 30 | Q - P | S - S | D - D | Z - Z |
| 34 | Q - P | S - S | D - D | Z - Z |
| 40 | Q - P | S - S | D - D | Z - Z |

Table showing standard flange and thread combinations available in stock

| Body (threads/flanges) | | | | |
|------------------------|--|--|--|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| Closed Body | | | | Z |



reversible motor - series XV

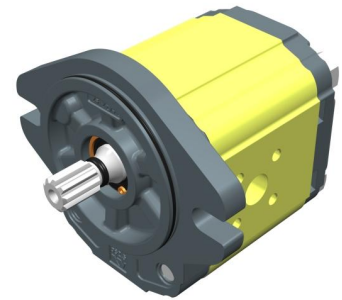
XV-2M

SAE A TYPE MOTOR
 ø82.5 FLANGE - SPLINED SHAFT



X 2 M 51 31 I R R E

| | | |
|--------------|-----|---|
| Series | X | series XV |
| Group | 2 | group 2 |
| Category | M | reversible motor |
| Displacement | 51 | 17 |
| Flange | 31 | Ø82.5 SAE A reversible rotation (with OR) |
| Shaft | I | SCF04 - Splined ø15.456 z=9, H=22.5 - SAE J498 9T 16/32DP |
| Body | IN | R inlet - Ø35 a 45° Ø15 M6 |
| | OUT | R outlet - Ø35 a 45° Ø15 M6 |
| Cover | E | with external drainage |



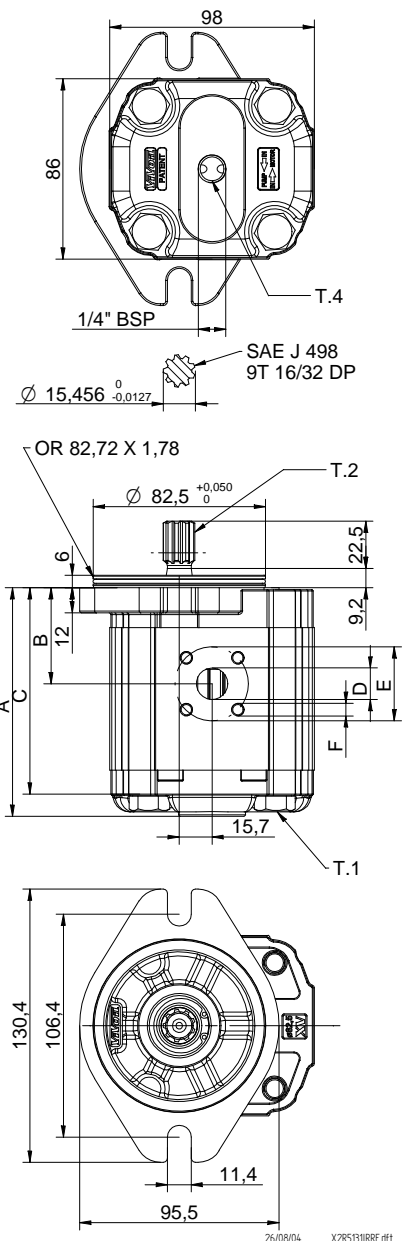
Reference **XM219**

| Technical data table | | | | | | | | | | | | | | | | | | | | | |
|----------------------|-------------------------|---------------|--------|-------------------|---|---|----|-------------------|---|---|---|---|---|---|---|----|----|---|---|---|---|
| TYPE | Displacement cm3/rev | Max. Pressure | | CODE | | | | | | | | | | | | | | | | | |
| | | P1 bar | P3 bar | External drainage | | | | Internal drainage | | | | | | | | | | | | | |
| XV-2M/04 | 4,20 | 260 | 300 | X | 2 | M | 41 | 31 | I | R | R | E | X | 2 | M | 41 | 31 | I | R | R | F |
| XV-2M/06 | 6,00 | 260 | 300 | X | 2 | M | 43 | 31 | I | R | R | E | X | 2 | M | 43 | 31 | I | R | R | F |
| XV-2M/09 | 8,40 | 260 | 300 | X | 2 | M | 45 | 31 | I | R | R | E | X | 2 | M | 45 | 31 | I | R | R | F |
| XV-2M/11 | 10,80 | 260 | 300 | X | 2 | M | 47 | 31 | I | R | R | E | X | 2 | M | 47 | 31 | I | R | R | F |
| XV-2M/14 | 14,40 | 250 | 290 | X | 2 | M | 49 | 31 | I | R | R | E | X | 2 | M | 49 | 31 | I | R | R | F |
| XV-2M/17 | 16,80 | 230 | 270 | X | 2 | M | 51 | 31 | I | R | R | E | X | 2 | M | 51 | 31 | I | R | R | F |
| XV-2M/19 | 19,20 | 210 | 250 | X | 2 | M | 53 | 31 | I | R | R | E | X | 2 | M | 53 | 31 | I | R | R | F |
| XV-2M/22 | 22,80 | 200 | 240 | X | 2 | M | 55 | 31 | I | R | R | E | X | 2 | M | 55 | 31 | I | R | R | F |
| XV-2M/26 | 26,20 | 170 | 210 | X | 2 | M | 57 | 31 | I | S | S | E | X | 2 | M | 57 | 31 | I | S | S | F |
| XV-2M/30 | 30,00 | 160 | 200 | X | 2 | M | 59 | 31 | I | S | S | E | X | 2 | M | 59 | 31 | I | S | S | F |
| XV-2M/34 | 34,20 | 150 | 190 | X | 2 | M | 61 | 31 | I | S | S | E | X | 2 | M | 61 | 31 | I | S | S | F |
| XV-2M/40 | 39,60 | 140 | 180 | X | 2 | M | 63 | 31 | I | S | S | E | X | 2 | M | 63 | 31 | I | S | S | F |

P1) Max. working pressure - P3) Max. peak pressure

For heavy-duty applications, it is recommended to check the admissible torque of the shaft

| Dimensions table | | | | | | | | | | |
|------------------|--------------|-------|------|-------|-----|----|------|-----|----|------|
| TYPE | Weight kg | A | B | C | D | E | F | D | E | F |
| | | mm | mm | mm | IN | | | OUT | | |
| XV-2M/04 | 2,280 | 88,0 | 39,4 | 78,0 | ø15 | 35 | M6x1 | ø15 | 35 | M6x1 |
| XV-2M/06 | 2,380 | 91,0 | 39,4 | 81,0 | ø15 | 35 | M6x1 | ø15 | 35 | M6x1 |
| XV-2M/09 | 2,480 | 95,0 | 41,4 | 85,0 | ø15 | 35 | M6x1 | ø15 | 35 | M6x1 |
| XV-2M/11 | 2,580 | 99,0 | 45,8 | 89,0 | ø15 | 35 | M6x1 | ø15 | 35 | M6x1 |
| XV-2M/14 | 2,780 | 105,0 | 45,8 | 95,0 | ø15 | 35 | M6x1 | ø15 | 35 | M6x1 |
| XV-2M/17 | 2,880 | 109,0 | 45,8 | 99,0 | ø15 | 35 | M6x1 | ø15 | 35 | M6x1 |
| XV-2M/19 | 2,980 | 113,0 | 45,8 | 103,0 | ø15 | 35 | M6x1 | ø15 | 35 | M6x1 |
| XV-2M/22 | 3,130 | 119,0 | 53,3 | 109,0 | ø15 | 35 | M6x1 | ø15 | 35 | M6x1 |
| XV-2M/26 | 3,230 | 123,0 | 53,3 | 113,0 | ø20 | 40 | M6x1 | ø20 | 40 | M6x1 |
| XV-2M/30 | 3,480 | 131,0 | 61,5 | 121,0 | ø20 | 40 | M6x1 | ø20 | 40 | M6x1 |
| XV-2M/34 | 3,680 | 138,0 | 61,5 | 128,0 | ø20 | 40 | M6x1 | ø20 | 40 | M6x1 |
| XV-2M/40 | 3,880 | 147,0 | 61,5 | 137,0 | ø20 | 40 | M6x1 | ø20 | 40 | M6x1 |



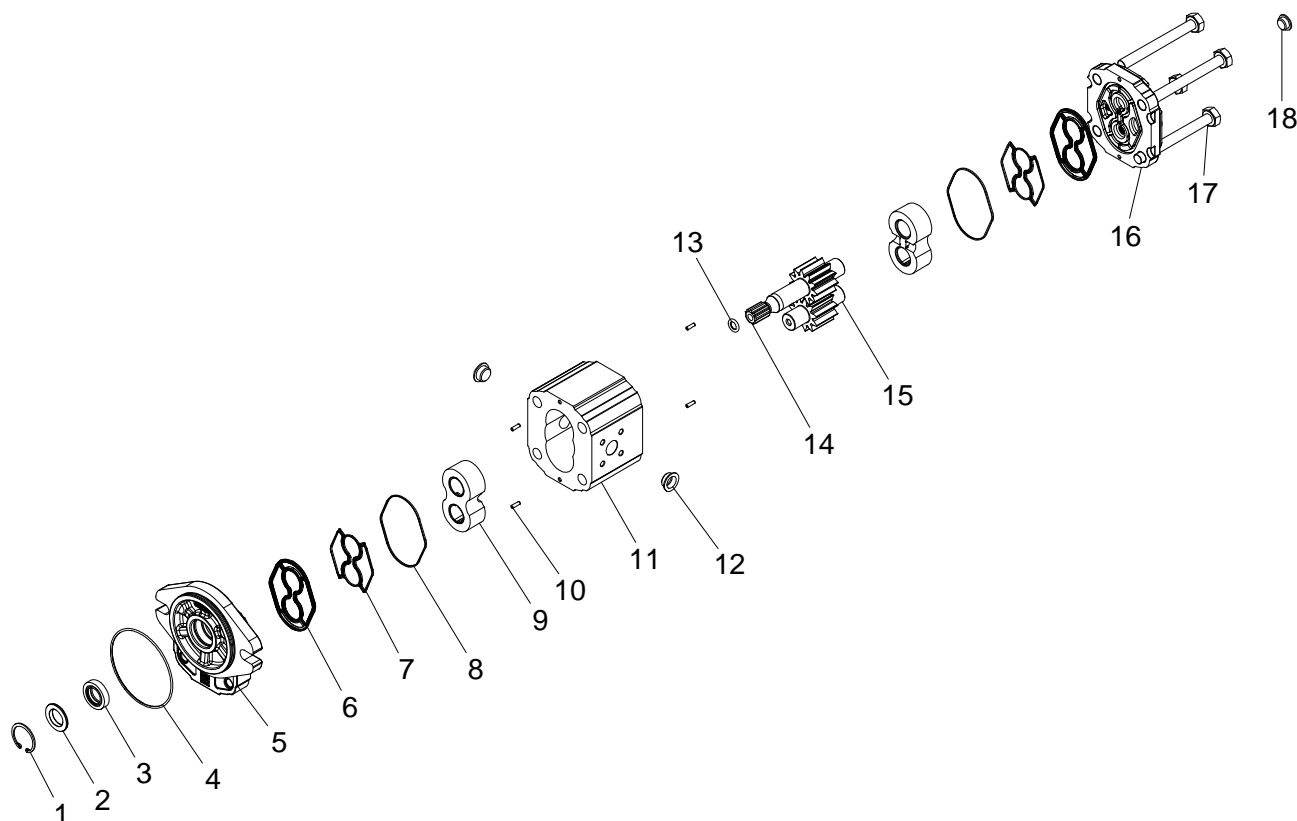
T.1 = 54÷58.9 [Nm] - screw tightening torque M10

T.2 = 67.1 [Nm] - admissible shaft torque (N.B. When choosing a shaft, always check the admissible torque).

T.4 = 0.3÷0.5 bar - max. drainage pressure

| | |
|-----------|--------------|
| Reference | XM219 |
|-----------|--------------|

Example of ordering code:

X2M5131IRRE XV2M/17 - Ø82.5 SAE /R - SCF04 - Ø35 M6 # - Ø35 M6 # - Dren. est.


| Basic list | | | | |
|------------|--|------------|-------|----------|
| Pos. | Item description | Item | Size | Quantity |
| 1 | ø29 INTERNAL SNAP RING DIN 472 | 560.0020.A | 0 | 1 |
| 2 | BACK UP WASHER OIL SEAL XV2M | 200.0126.A | 0 | 1 |
| 3 | OIL SEAL 17.46 x 28.58 x 6.4 SCV | 690.0105.A | 0 | 1 |
| 4 | OR 75.92 x 1.78 | 640.0130.A | 0 | 1 |
| 5 | XV2 ø82,5 SAE FLANGE | 200.0250.A | 0 | 1 |
| 6 | INJECTION-MOLDED SEAL XV2 (NBR 70÷75 SH) | 200.0190.C | 0 | 2 |
| 7 | XV2 BACK-UP ELEMENT FOR BALANCING | 200.0191.A | 0 | 2 |
| 8 | EXTERNAL BACK-UP ELEMENT XV2 | 200.0194.A | 0 | 2 |
| 9 | KV2P BUSH H=20 | 200.0012.A | 0 | 2 |
| 10 | PIN ø3x9,8 | 570.0005.A | 0 | 4 |
| 11 | BOSCH FLANGED BODY 15 35-M6# - 15 35-M6# - cc=17 | 200.0091.A | H68 | 1 |
| 12 | PLASTIC PLUG ø15,5 | 580.0001.A | D15,5 | 2 |
| 13 | OR 10.78 x 2.62 | 650.0085.A | 0 | 1 |
| 14 | SCF04 SAE - SPLINED DRIVING GEAR | 200.0073.A | CC17 | 1 |
| 15 | COND2 - PERFORATED DRIVEN GEAR | 200.0010.A | CC17 | 1 |
| 16 | NEUTRAL XV2 COVER W/DRAINAGE 1/4" BSP | 200.0008.X | FZZZA | 1 |
| 17 | WHITE GALVANISED SCREW TE M10x95 UNI 5737 8.8 | 531.0010.A | L095 | 4 |
| 18 | PLASTIC PLUG ø12 | 580.0001.A | D12 | 1 |

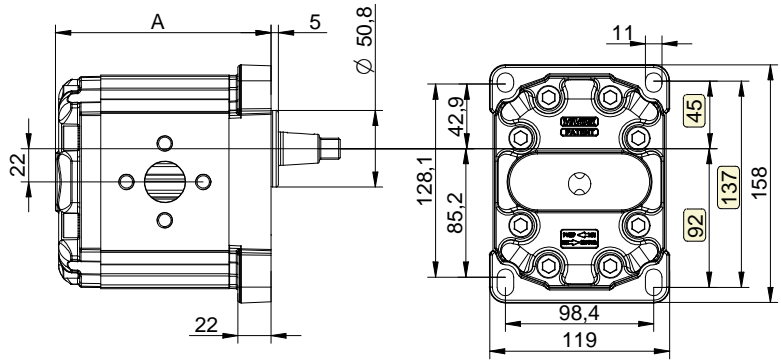
Table of variations

These two pages provide an overview of all the possible variations for customising a pump with a ø50.8 flange.

By filling in the missing data you can obtain the complete code of the product to be customised.



| | | |
|--------------|-----------|------------------|
| Series | X | series XV |
| Group | 3 | group 3 |
| Category | M | reversible motor |
| Displacement | | |
| Flange | | |
| Shaft | | |
| Body | IN OUT | |
| Cover | | |



ø50.8 FLANGE

Code: **01**

| Shaft | |
|--|---|
| Code | Code |
| <p>CO001 - Tapered</p> <p>T.2 = 482 [Nm]</p> | <p>CI001 - Parallel</p> <p>T.2 = 181 [Nm]</p> |
| <p>SCF03 - Splined</p> <p>T.2 = 223 [Nm]</p> | <p>CI004 - Parallel</p> <p>T.2 = 180 [Nm]</p> |
| <p>SCF04 - Splined</p> <p>T.2 = 264 [Nm]</p> | <p>Z</p> |

Table of variations

| Displacement | | |
|--------------|------|-------|
| TYPE | CODE | A |
| | | mm |
| XV-3M/15 | 66 | 122,0 |
| XV-3M/18 | 68 | 124,0 |
| XV-3M/21 | 70 | 127,0 |
| XV-3M/27 | 72 | 131,0 |
| XV-3M/32 | 74 | 136,0 |
| XV-3M/38 | 78 | 141,0 |
| XV-3M/43 | 79 | 145,0 |
| XV-3M/47 | 80 | 148,0 |
| XV-3M/51 | 81 | 151,0 |
| XV-3M/54 | 82 | 154,0 |
| XV-3M/61 | 83 | 159,0 |
| XV-3M/64 | 85 | 162,0 |
| XV-3M/70 | 86 | 167,0 |
| XV-3M/74 | 87 | 170,0 |
| XV-3M/90 | 89 | 180,0 |

| Standard bodies | | | |
|-------------------------|------------------|-------|-------|
| Displacement cm3/rev | Standard threads | | |
| | 14 | A - A | D - D |
| 17 | A - A | D - D | H - H |
| 21 | A - A | D - D | H - H |
| 26 | A - A | E - E | H - H |
| 32 | B - B | E - E | H - H |
| 38 | B - B | E - E | H - H |
| 43 | B - B | E - E | H - H |
| 47 | B - B | E - E | H - H |
| 51 | B - B | E - E | H - H |
| 54 | B - B | E - E | H - H |
| 61 | C - C | F - F | |
| 64 | C - C | F - F | |
| 70 | C - C | F - F | |
| 74 | C - C | F - F | |
| 90 | C - C | F - F | |

Table showing standard flange and thread combinations available in stock

| Cover | | Code |
|-------------------------------------|--|------|
| <p>External drainage</p> | | |
| <p>Internal drainage</p> | | F |
| <p>IN + OUT + external drainage</p> | | K |
| <p>IN + OUT + internal drainage</p> | | L |

| Body (threads/flanges) | | | |
|------------------------|--|--|--|
| | | | |
| | | | |
| | | | |
| | | | |

reversible motor - series XV

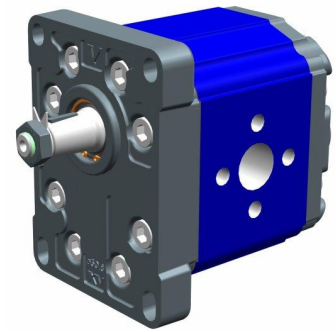
XV-3M

STANDARD EUROPEAN MOTOR
 ø50.8 FLANGE - TAPER SHAFT



X 3 M 78 01 A B B E

| | | |
|--------------|-----|---------------------------------------|
| Series | X | series XV |
| Group | 3 | group 3 |
| Category | M | reversible motor |
| Displacement | 78 | 38 |
| Flange | 01 | Ø50.8 reversible rotation |
| Shaft | A | CO001 - Tapered 1:8 - ø22 - key thk.4 |
| Body | IN | inlet - Ø51 Ø27 M10 |
| | OUT | outlet - Ø51 Ø27 M10 |
| Cover | E | with external drainage |



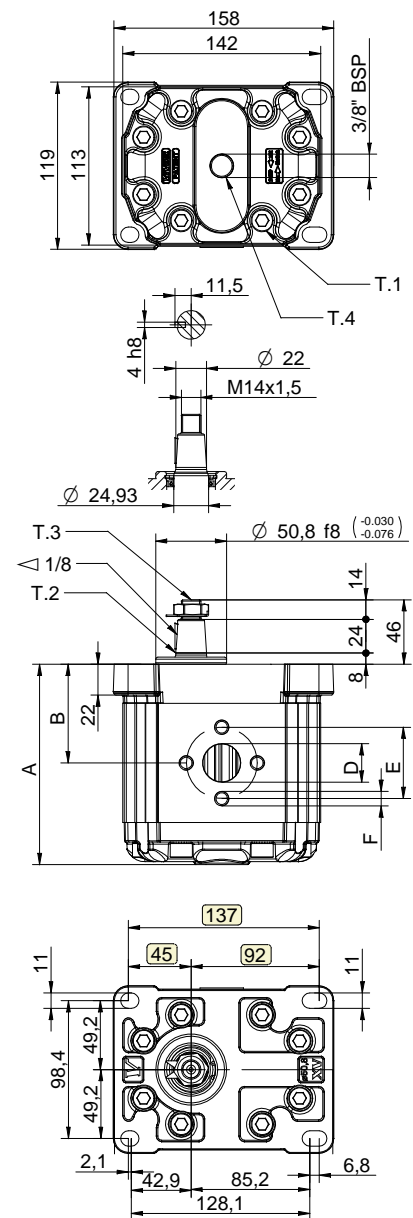
Reference **XM301**

| Technical data table | | | | | | | | | | | | | | | | | | | | | |
|----------------------|-------------------------|---------------|--------|-------------------|---|---|-------------------|----|---|---|---|---|---|---|---|----|----|---|---|---|---|
| TYPE | Displacement cm3/rev | Max. Pressure | | CODE | | | | | | | | | | | | | | | | | |
| | | P1 bar | P3 bar | External drainage | | | Internal drainage | | | | | | | | | | | | | | |
| XV-3M/15 | 14,89 | 250 | 270 | X | 3 | M | 66 | 01 | A | A | A | E | X | 3 | M | 66 | 01 | A | A | A | F |
| XV-3M/18 | 17,37 | 250 | 270 | X | 3 | M | 68 | 01 | A | A | A | E | X | 3 | M | 68 | 01 | A | A | A | F |
| XV-3M/21 | 21,10 | 250 | 270 | X | 3 | M | 70 | 01 | A | A | A | E | X | 3 | M | 70 | 01 | A | A | A | F |
| XV-3M/27 | 26,97 | 250 | 270 | X | 3 | M | 72 | 01 | A | A | A | E | X | 3 | M | 72 | 01 | A | A | A | F |
| XV-3M/32 | 32,27 | 250 | 270 | X | 3 | M | 74 | 01 | A | B | B | E | X | 3 | M | 74 | 01 | A | B | B | F |
| XV-3M/38 | 38,47 | 250 | 270 | X | 3 | M | 78 | 01 | A | B | B | E | X | 3 | M | 78 | 01 | A | B | B | F |
| XV-3M/43 | 43,44 | 250 | 270 | X | 3 | M | 79 | 01 | A | B | B | E | X | 3 | M | 79 | 01 | A | B | B | F |
| XV-3M/47 | 47,16 | 230 | 250 | X | 3 | M | 80 | 01 | A | B | B | E | X | 3 | M | 80 | 01 | A | B | B | F |
| XV-3M/51 | 50,88 | 230 | 250 | X | 3 | M | 81 | 01 | A | B | B | E | X | 3 | M | 81 | 01 | A | B | B | F |
| XV-3M/54 | 54,60 | 230 | 250 | X | 3 | M | 82 | 01 | A | B | B | E | X | 3 | M | 82 | 01 | A | B | B | F |
| XV-3M/61 | 60,81 | 230 | 250 | X | 3 | M | 83 | 01 | A | C | C | E | X | 3 | M | 83 | 01 | A | C | C | F |
| XV-3M/64 | 64,53 | 210 | 230 | X | 3 | M | 85 | 01 | A | C | C | E | X | 3 | M | 85 | 01 | A | C | C | F |
| XV-3M/70 | 70,74 | 200 | 220 | X | 3 | M | 86 | 01 | A | C | C | E | X | 3 | M | 86 | 01 | A | C | C | F |
| XV-3M/74 | 74,46 | 180 | 200 | X | 3 | M | 87 | 01 | A | C | C | E | X | 3 | M | 87 | 01 | A | C | C | F |
| XV-3M/90 | 86,87 | 150 | 170 | X | 3 | M | 89 | 01 | A | C | C | E | X | 3 | M | 89 | 01 | A | C | C | F |

P1) Max. working pressure - P3) Max. peak pressure

For heavy-duty applications, it is recommended to check the admissible torque of the shaft

| Dimensions table | | | | | | | | | |
|------------------|--------------|-------|------|-----|----|-----|-----|----|-----|
| TYPE | Weight kg | A | B | D | E | F | D | E | F |
| | | mm | mm | IN | | | OUT | | |
| XV-3M/15 | 7,010 | 122,0 | 61,0 | ø20 | 40 | M8 | ø20 | 40 | M8 |
| XV-3M/18 | 7,070 | 124,0 | 62,0 | ø20 | 40 | M8 | ø20 | 40 | M8 |
| XV-3M/21 | 7,150 | 127,0 | 63,5 | ø20 | 40 | M8 | ø20 | 40 | M8 |
| XV-3M/27 | 7,250 | 131,0 | 65,5 | ø20 | 40 | M8 | ø20 | 40 | M8 |
| XV-3M/32 | 7,390 | 136,0 | 68,0 | ø27 | 51 | M10 | ø27 | 51 | M10 |
| XV-3M/38 | 7,520 | 141,0 | 70,5 | ø27 | 51 | M10 | ø27 | 51 | M10 |
| XV-3M/43 | 7,630 | 145,0 | 72,5 | ø27 | 51 | M10 | ø27 | 51 | M10 |
| XV-3M/47 | 7,710 | 148,0 | 74,0 | ø27 | 51 | M10 | ø27 | 51 | M10 |
| XV-3M/51 | 7,790 | 151,0 | 75,5 | ø27 | 51 | M10 | ø27 | 51 | M10 |
| XV-3M/54 | 7,870 | 154,0 | 77,0 | ø27 | 51 | M10 | ø27 | 51 | M10 |
| XV-3M/61 | 8,010 | 159,0 | 79,5 | ø36 | 62 | M10 | ø36 | 62 | M10 |
| XV-3M/64 | 8,090 | 162,0 | 81,0 | ø36 | 62 | M10 | ø36 | 62 | M10 |
| XV-3M/70 | 8,220 | 167,0 | 83,5 | ø36 | 62 | M10 | ø36 | 62 | M10 |
| XV-3M/74 | 8,300 | 170,0 | 85,0 | ø36 | 62 | M10 | ø36 | 62 | M10 |
| XV-3M/90 | 8,570 | 180,0 | 90,0 | ø36 | 62 | M10 | ø36 | 62 | M10 |



T.1 = 60÷65 [Nm] - screw tightening torque M10

T.3 = 75 [Nm] - torque wrench setting 22

T.2 = 482 [Nm] - admissible shaft torque (N.B. When choosing a shaft, always check the admissible torque).

T.4 = 0.3÷0.5 bar - max. drainage pressure

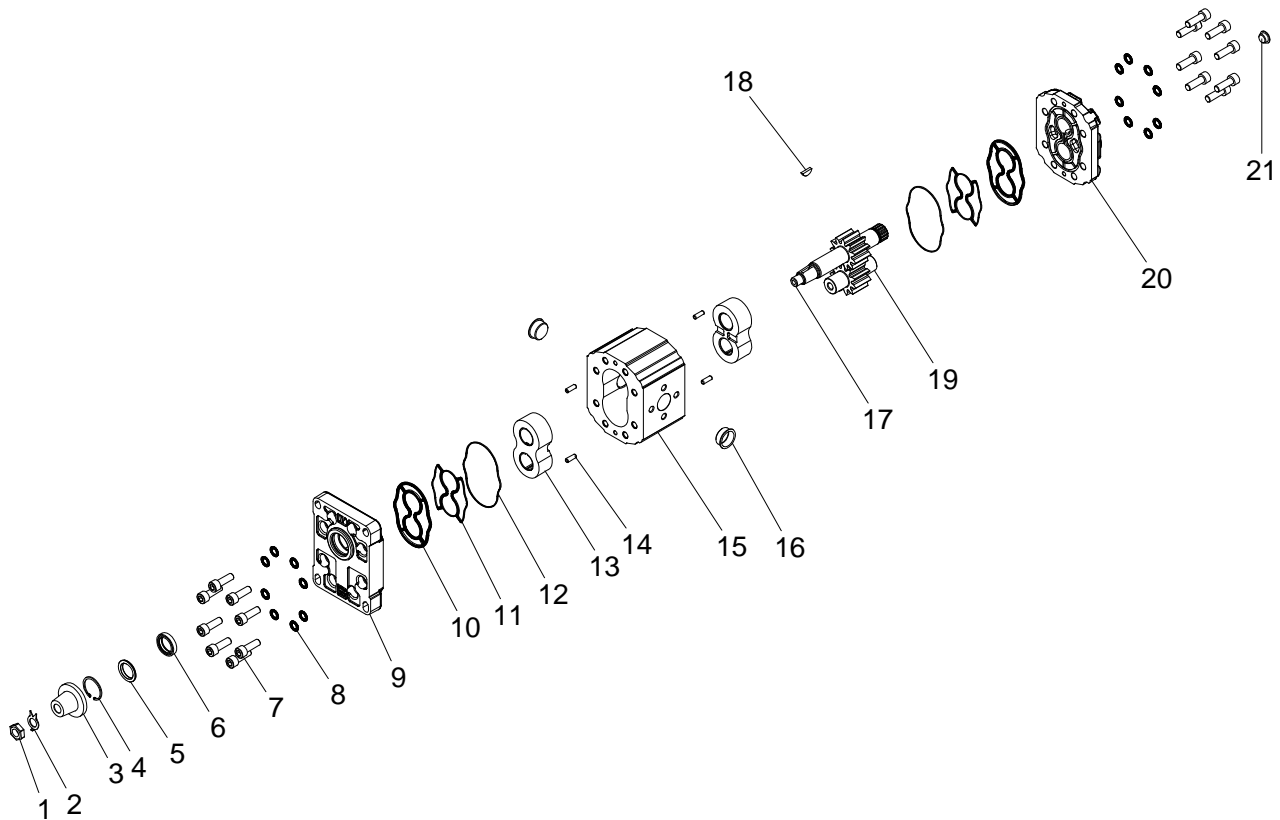
Vivoil Oleodinamica Vivoil s.r.l. - Sole Shareholder Company - via Leone Ginzburg 2-4 40054 Budrio (BO) Italy tel: +39 051 803689 fax: +39 051 800061

www.vivoil.com - english

04/07/2006

| | |
|-----------|--------------|
| Reference | XM301 |
|-----------|--------------|

Example of ordering code:

X3M7801ABBE XV3M/38 - ø50,8 /R - CO001 - ø51 M10 - ø51 M10 - Dren. est.


| Basic list | | | | |
|------------|---|------------|-------|----------|
| Pos. | Item description | Item | Size | Quantity |
| 1 | WHITE GALVANISED NUT M14x1.5 H=8 UNI 5589 | 540.0070.A | 0 | 1 |
| 2 | TAB WASHER XV3 CO001 | 300.0023.A | 0 | 1 |
| 3 | KEY PROTECTION XV3 | 590.0030.A | 0 | 1 |
| 4 | ø35 INTERNAL SNAP RING DIN 472 | 560.0025.A | 0 | 1 |
| 5 | BACK UP WASHER OIL SEAL XV3M | 300.0029.A | 0 | 1 |
| 6 | OIL SEAL 25 x 35 x 7 SC (BA) | 690.0095.A | 0 | 1 |
| 7 | WHITE GALVANISED SCREW TCCE M10x30 UNI 5931 8.8 | 521.0010.A | L030 | 16 |
| 8 | SCHNORR WASHER ø10xø15.8 H=1 BLUED | 550.0015.A | 0 | 16 |
| 9 | XV3 ø50.8 FLANGE | 300.0032.A | 0 | 1 |
| 10 | INJECTION-MOLDED SEAL XV3 (NBR 740/70) | 300.0005.C | 0 | 2 |
| 11 | XV3 BACK-UP ELEMENT FOR BALANCING | 300.0003.A | 0 | 2 |
| 12 | EXTERNAL BACK-UP ELEMENT XV3 | 300.0004.A | 0 | 2 |
| 13 | XV3 BUSH H=27 | 300.0009.A | 0 | 2 |
| 14 | PIN ø6x18 | 570.0044.A | 0 | 4 |
| 15 | STANDARD FLANGED BODY - cc=38 | 300.0044.A | H85 | 1 |
| 16 | PLASTIC PLUG ø28 | 580.0001.A | D28 | 2 |
| 17 | COP01 - PRIMARY GEAR ø22 BEVEL 1÷8 | 300.0016.A | CC38 | 1 |
| 18 | WOODRUFF KEY ø19x4 H=7,5 - XV3 | 300.0013.A | 0 | 1 |
| 19 | COND2 - PERFORATED DRIVEN GEAR | 300.0010.A | CC38 | 1 |
| 20 | STANDARD XV3 COVER W/DRAINAGE 3/8" BSP | 300.0034.X | F3ZZL | 1 |
| 21 | PLASTIC PLUG ø15,5 | 580.0001.A | D15,5 | 1 |

reversible motor - series XV

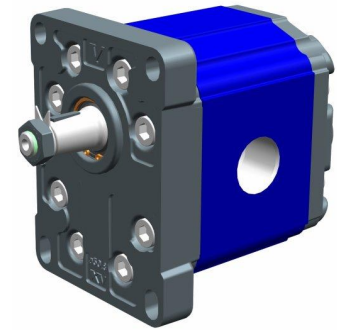
XV-3M

STANDARD EUROPEAN MOTOR
 ø50.8 FLANGE - TAPER SHAFT



X 3 M 78 01 A E E E

| | | |
|--------------|-----|---------------------------------------|
| Series | X | series XV |
| Group | 3 | group 3 |
| Category | M | reversible motor |
| Displacement | 78 | 38 |
| Flange | 01 | Ø50.8 reversible rotation |
| Shaft | A | CO001 - Tapered 1:8 - ø22 - key thk.4 |
| Body | IN | inlet - 1" BSP |
| | OUT | outlet - 1" BSP |
| Cover | E | with external drainage |



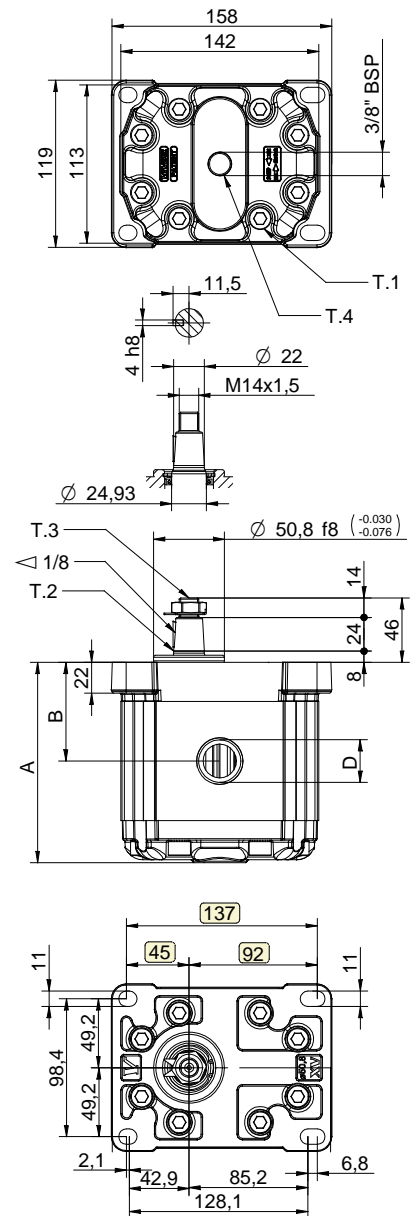
Reference **XM302**

| Technical data table | | | | | | |
|----------------------|-------------------------|---------------|--------|---------------------|---------------------|-------------------|
| TYPE | Displacement cm3/rev | Max. Pressure | | CODE | | |
| | | P1 bar | P3 bar | External drainage | | Internal drainage |
| XV-3M/15 | 14,89 | 250 | 270 | X 3 P 66 01 A D D E | X 3 P 66 02 A D D F | |
| XV-3M/18 | 17,37 | 250 | 270 | X 3 P 68 01 A D D E | X 3 P 68 02 A D D F | |
| XV-3M/21 | 21,10 | 250 | 270 | X 3 P 70 01 A D D E | X 3 P 70 02 A D D F | |
| XV-3M/27 | 26,97 | 250 | 270 | X 3 P 72 01 A E E E | X 3 P 72 02 A E E F | |
| XV-3M/32 | 32,27 | 250 | 270 | X 3 P 74 01 A E E E | X 3 P 74 02 A E E F | |
| XV-3M/38 | 38,47 | 250 | 270 | X 3 P 78 01 A E E E | X 3 P 78 02 A E E F | |
| XV-3M/43 | 43,44 | 250 | 270 | X 3 P 79 01 A E E E | X 3 P 79 02 A E E F | |
| XV-3M/47 | 47,16 | 230 | 250 | X 3 P 80 01 A E E E | X 3 P 80 02 A E E F | |
| XV-3M/51 | 50,88 | 230 | 250 | X 3 P 81 01 A E E E | X 3 P 81 02 A E E F | |
| XV-3M/54 | 54,60 | 230 | 250 | X 3 P 82 01 A E E E | X 3 P 82 02 A E E F | |
| XV-3M/61 | 60,81 | 230 | 250 | X 3 P 83 01 A F F E | X 3 P 83 02 A F F F | |
| XV-3M/64 | 64,53 | 210 | 230 | X 3 P 85 01 A F F E | X 3 P 85 02 A F F F | |
| XV-3M/70 | 70,74 | 200 | 220 | X 3 P 86 01 A F F E | X 3 P 86 02 A F F F | |
| XV-3M/74 | 74,46 | 180 | 200 | X 3 P 87 01 A F F E | X 3 P 87 02 A F F F | |
| XV-3M/90 | 86,87 | 150 | 170 | X 3 P 89 01 A F F E | X 3 P 89 02 A F F F | |

P1) Max. working pressure - P3) Max. peak pressure

For heavy-duty applications, it is recommended to check the admissible torque of the shaft

| Dimensions table | | | | | |
|------------------|--------|-------|------|-------------|-------------|
| TYPE | Weight | A | B | D | D |
| | kg | mm | mm | IN | OUT |
| XV-3M/15 | 7,010 | 122,0 | 61,0 | 3/4" BSPP | 3/4" BSPP |
| XV-3M/18 | 7,070 | 124,0 | 62,0 | 3/4" BSPP | 3/4" BSPP |
| XV-3M/21 | 7,150 | 127,0 | 63,5 | 3/4" BSPP | 3/4" BSPP |
| XV-3M/27 | 7,250 | 131,0 | 65,5 | 1" BSPP | 1" BSPP |
| XV-3M/32 | 7,390 | 136,0 | 68,0 | 1" BSPP | 1" BSPP |
| XV-3M/38 | 7,520 | 141,0 | 70,5 | 1" BSPP | 1" BSPP |
| XV-3M/43 | 7,630 | 145,0 | 72,5 | 1" BSPP | 1" BSPP |
| XV-3M/47 | 7,710 | 148,0 | 74,0 | 1" BSPP | 1" BSPP |
| XV-3M/51 | 7,790 | 151,0 | 75,5 | 1" BSPP | 1" BSPP |
| XV-3M/54 | 7,870 | 154,0 | 77,0 | 1" BSPP | 1" BSPP |
| XV-3M/61 | 8,010 | 159,0 | 79,5 | 1" 1/4 BSPP | 1" 1/4 BSPP |
| XV-3M/64 | 8,090 | 162,0 | 81,0 | 1" 1/4 BSPP | 1" 1/4 BSPP |
| XV-3M/70 | 8,220 | 167,0 | 83,5 | 1" 1/4 BSPP | 1" 1/4 BSPP |
| XV-3M/74 | 8,300 | 170,0 | 85,0 | 1" 1/4 BSPP | 1" 1/4 BSPP |
| XV-3M/90 | 8,570 | 180,0 | 90,0 | 1" 1/4 BSPP | 1" 1/4 BSPP |



T.1 = 60÷65 [Nm] - screw tightening torque M10

T.3 = 75 [Nm] - torque wrench setting 22

T.2 = 482 [Nm] - admissible shaft torque (N.B. When choosing a shaft, always check the admissible torque).

T.4 = 0.3÷0.5 bar - max. drainage pressure

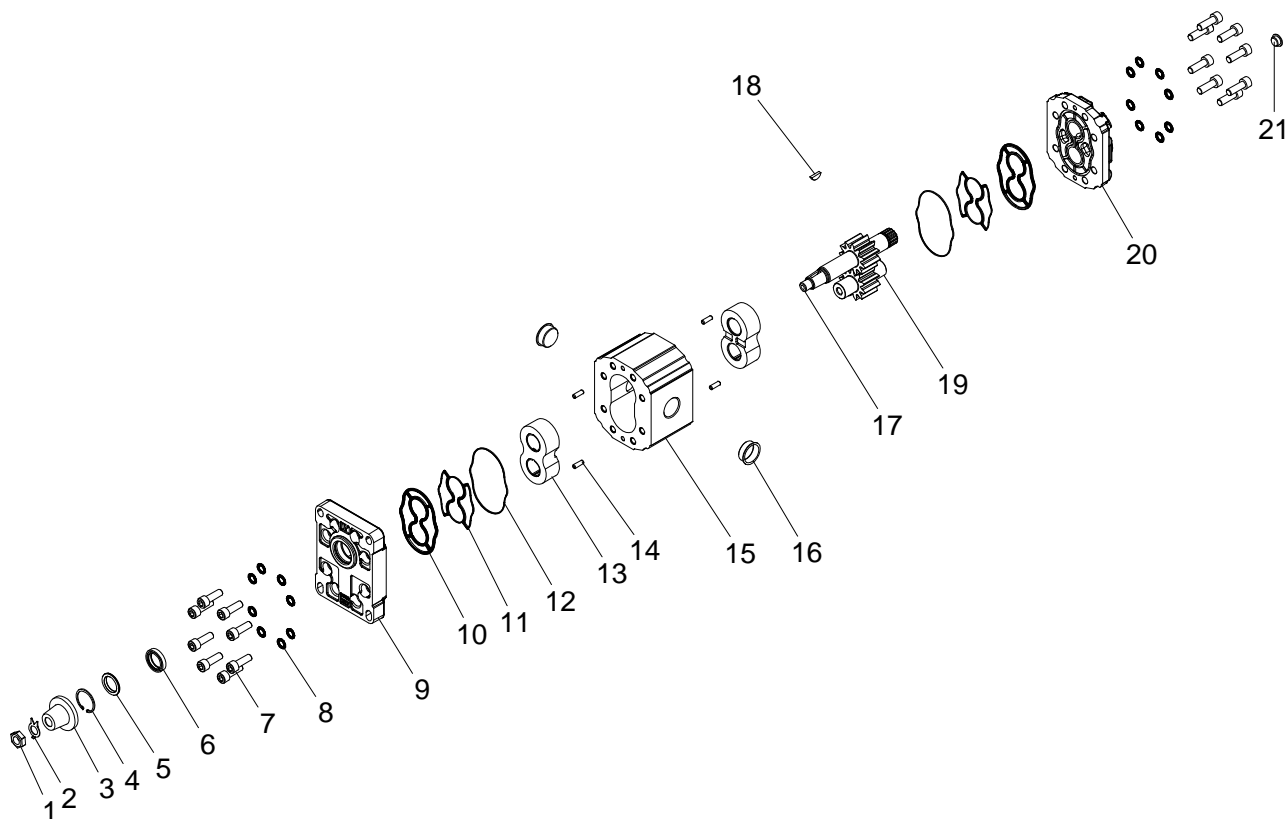
Vivoil Oleodinamica Vivoil s.r.l. - Sole Shareholder Company - via Leone Ginzburg 2-4 40054 Budrio (BO) Italy tel: +39 051 803689 fax: +39 051 800061

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04/07/2006

| | |
|-----------|--------------|
| Reference | XM302 |
|-----------|--------------|

Example of ordering code:

X3M7801AEEE XV3M/38 - ø50,8 /R - CO001 - 1" BSP - 1" BSP - Dren. est.


| Basic list | | | | |
|------------|---|------------|-------|----------|
| Pos. | Item description | Item | Size | Quantity |
| 1 | WHITE GALVANISED NUT M14x1.5 H=8 UNI 5589 | 540.0070.A | 0 | 1 |
| 2 | TAB WASHER XV3 CO001 | 300.0023.A | 0 | 1 |
| 3 | KEY PROTECTION XV3 | 590.0030.A | 0 | 1 |
| 4 | ø35 INTERNAL SNAP RING DIN 472 | 560.0025.A | 0 | 1 |
| 5 | BACK UP WASHER OIL SEAL XV3M | 300.0029.A | 0 | 1 |
| 6 | OIL SEAL 25 x 35 x 7 SC (BA) | 690.0095.A | 0 | 1 |
| 7 | WHITE GALVANISED SCREW TCCE M10x30 UNI 5931 8.8 | 521.0010.A | L030 | 16 |
| 8 | SCHNORR WASHER ø10xø15.8 H=1 BLUED | 550.0015.A | 0 | 16 |
| 9 | XV3 ø50.8 FLANGE | 300.0032.A | 0 | 1 |
| 10 | INJECTION-MOLDED SEAL XV3 (NBR 740/70) | 300.0005.C | 0 | 2 |
| 11 | XV3 BACK-UP ELEMENT FOR BALANCING | 300.0003.A | 0 | 2 |
| 12 | EXTERNAL BACK-UP ELEMENT XV3 | 300.0004.A | 0 | 2 |
| 13 | XV3 BUSH H=27 | 300.0009.A | 0 | 2 |
| 14 | PIN ø6x18 | 570.0044.A | 0 | 4 |
| 15 | BODY W/THREAD BSP STANDARD - cc=38 | 300.0026.A | H85 | 1 |
| 16 | PLASTIC PLUG ø32 | 580.0001.A | D32 | 2 |
| 17 | COP01 - PRIMARY GEAR ø22 BEVEL 1÷8 | 300.0016.A | CC38 | 1 |
| 18 | WOODRUFF KEY ø19x4 H=7,5 - XV3 | 300.0013.A | 0 | 1 |
| 19 | COND2 - PERFORATED DRIVEN GEAR | 300.0010.A | CC38 | 1 |
| 20 | STANDARD XV3 COVER W/DRAINAGE 3/8" BSP | 300.0034.X | F3ZZL | 1 |
| 21 | PLASTIC PLUG ø15,5 | 580.0001.A | D15,5 | 1 |

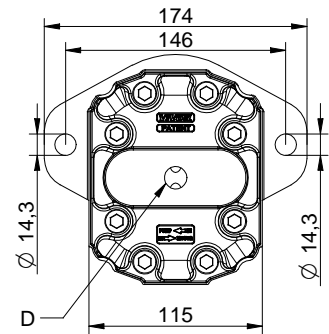
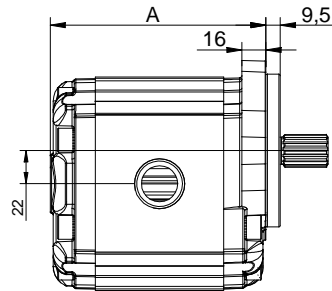
Table of variations

These two pages provide an overview of all the possible variations for customising a pump with a ø101.6 flange.

By filling in the missing data you can obtain the complete code of the product to be customised.



| | | |
|--------------|-----|--|
| Series | X | series XV group 3 reversible motor |
| Group | 3 | |
| Category | M | |
| Displacement | | |
| Flange | | |
| Shaft | | |
| Body | IN | |
| | OUT | |
| Cover | | |



ø101.6 FLANGE ""SAE B""

Code **31**

| Shaft | |
|---|--|
| Code | Code |
| <p>CO001 - Tapered</p> <p>T.2 = 482 [Nm]</p> | <p>CI001 - Parallel</p> <p>T.2 = 181 [Nm]</p> |
| <p>SCF03 - Splined</p> <p>T.2 = 223 [Nm]</p> | <p>CI004 - Parallel</p> <p>T.2 = 180 [Nm]</p> |
| <p>SCF04 - Splined</p> <p>T.2 = 264 [Nm]</p> | <p>Z</p> |

Table of variations

| Displacement | | |
|--------------|------|-------|
| TYPE | CODE | A |
| | | mm |
| XV-3M/15 | 66 | 124,0 |
| XV-3M/18 | 68 | 126,0 |
| XV-3M/21 | 70 | 129,0 |
| XV-3M/27 | 72 | 133,0 |
| XV-3M/32 | 74 | 138,0 |
| XV-3M/38 | 78 | 143,0 |
| XV-3M/43 | 79 | 147,0 |
| XV-3M/47 | 80 | 150,0 |
| XV-3M/51 | 81 | 153,0 |
| XV-3M/54 | 82 | 156,0 |
| XV-3M/61 | 83 | 161,0 |
| XV-3M/64 | 85 | 164,0 |
| XV-3M/70 | 86 | 169,0 |
| XV-3M/74 | 87 | 172,0 |
| XV-3M/90 | 89 | 182,0 |

| Standard bodies | | | |
|-------------------------|------------------|-------|-------|
| Displacement cm3/rev | Standard threads | | |
| | 14 | A - A | D - D |
| 17 | A - A | D - D | H - H |
| 21 | A - A | D - D | H - H |
| 26 | A - A | E - E | H - H |
| 32 | B - B | E - E | H - H |
| 38 | B - B | E - E | H - H |
| 43 | B - B | E - E | H - H |
| 47 | B - B | E - E | H - H |
| 51 | B - B | E - E | H - H |
| 54 | B - B | E - E | H - H |
| 61 | C - C | F - F | |
| 64 | C - C | F - F | |
| 70 | C - C | F - F | |
| 74 | C - C | F - F | |
| 90 | C - C | F - F | |

Table showing standard flange and thread combinations available in stock

| Cover | | Code |
|-------------------------------------|--|------|
| <p>External drainage</p> | | |
| <p>Internal drainage</p> | | F |
| <p>IN + OUT + external drainage</p> | | K |
| <p>IN + OUT + internal drainage</p> | | |

| Body (threads/flanges) | | | |
|------------------------|--|--------------------|--|
| | | | |
| | | | |
| | | | |
| | | <p>Closed Body</p> | |

reversible motor - series XV

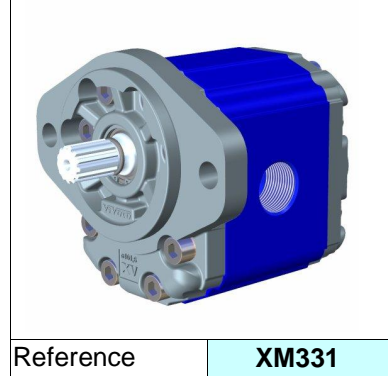
XV-3M

SAE B TYPE MOTOR
 ø101.6 FLANGE - SPLINED SHAFT



X 3 M 78 31 I E E E

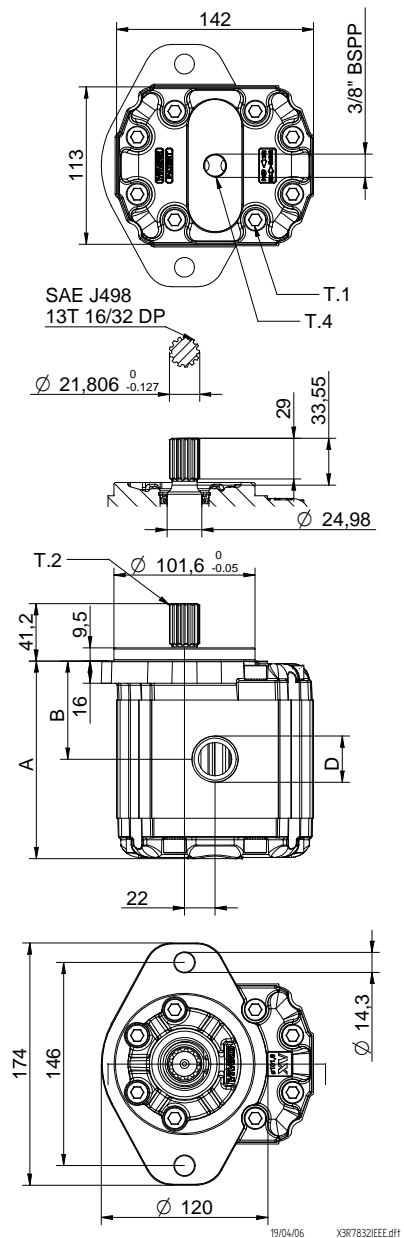
| | | |
|--------------|-----|----------------------------------|
| Series | X | series XV |
| Group | 3 | group 3 |
| Category | M | reversible motor |
| Displacement | 78 | 38 |
| Flange | 31 | Ø101.6 SAE B reversible rotation |
| Shaft | I | |
| Body | IN | inlet - 1" BSP |
| | OUT | outlet - 1" BSP |
| Cover | E | with external drainage |



| Technical data table | | | | | | |
|----------------------|-------------------------|---------------|--------|---------------------|---------------------|-------------------|
| TYPE | Displacement cm3/rev | Max. Pressure | | CODE | | |
| | | P1 bar | P3 bar | External drainage | | Internal drainage |
| XV-3M/15 | 14,89 | 250 | 270 | X 3 M 66 31 I D D E | X 3 M 66 31 I D D F | |
| XV-3M/18 | 17,37 | 250 | 270 | X 3 M 68 31 I D D E | X 3 M 68 31 I D D F | |
| XV-3M/21 | 21,10 | 250 | 270 | X 3 M 70 31 I D D E | X 3 M 70 31 I D D F | |
| XV-3M/27 | 26,97 | 250 | 270 | X 3 M 72 31 I E E E | X 3 M 72 31 I E E F | |
| XV-3M/32 | 32,27 | 250 | 270 | X 3 M 74 31 I E E E | X 3 M 74 31 I E E F | |
| XV-3M/38 | 38,47 | 250 | 270 | X 3 M 78 31 I E E E | X 3 M 78 31 I E E F | |
| XV-3M/43 | 43,44 | 250 | 270 | X 3 M 79 31 I E E E | X 3 M 79 31 I E E F | |
| XV-3M/47 | 47,16 | 230 | 250 | X 3 M 80 31 I E E E | X 3 M 80 31 I E E F | |
| XV-3M/51 | 50,88 | 230 | 250 | X 3 M 81 31 I E E E | X 3 M 81 31 I E E F | |
| XV-3M/54 | 54,60 | 230 | 250 | X 3 M 82 31 I E E E | X 3 M 82 31 I E E F | |
| XV-3M/61 | 60,81 | 230 | 250 | X 3 M 83 31 I F F E | X 3 M 83 31 I F F F | |
| XV-3M/64 | 64,53 | 210 | 230 | X 3 M 85 31 I F F E | X 3 M 85 31 I F F F | |
| XV-3M/70 | 70,74 | 200 | 220 | X 3 M 86 31 I F F E | X 3 M 86 31 I F F F | |
| XV-3M/74 | 74,46 | 180 | 200 | X 3 M 87 31 I F F E | X 3 M 87 31 I F F F | |
| XV-3M/90 | 86,87 | 150 | 170 | X 3 M 89 31 I F F E | X 3 M 89 31 I F F F | |

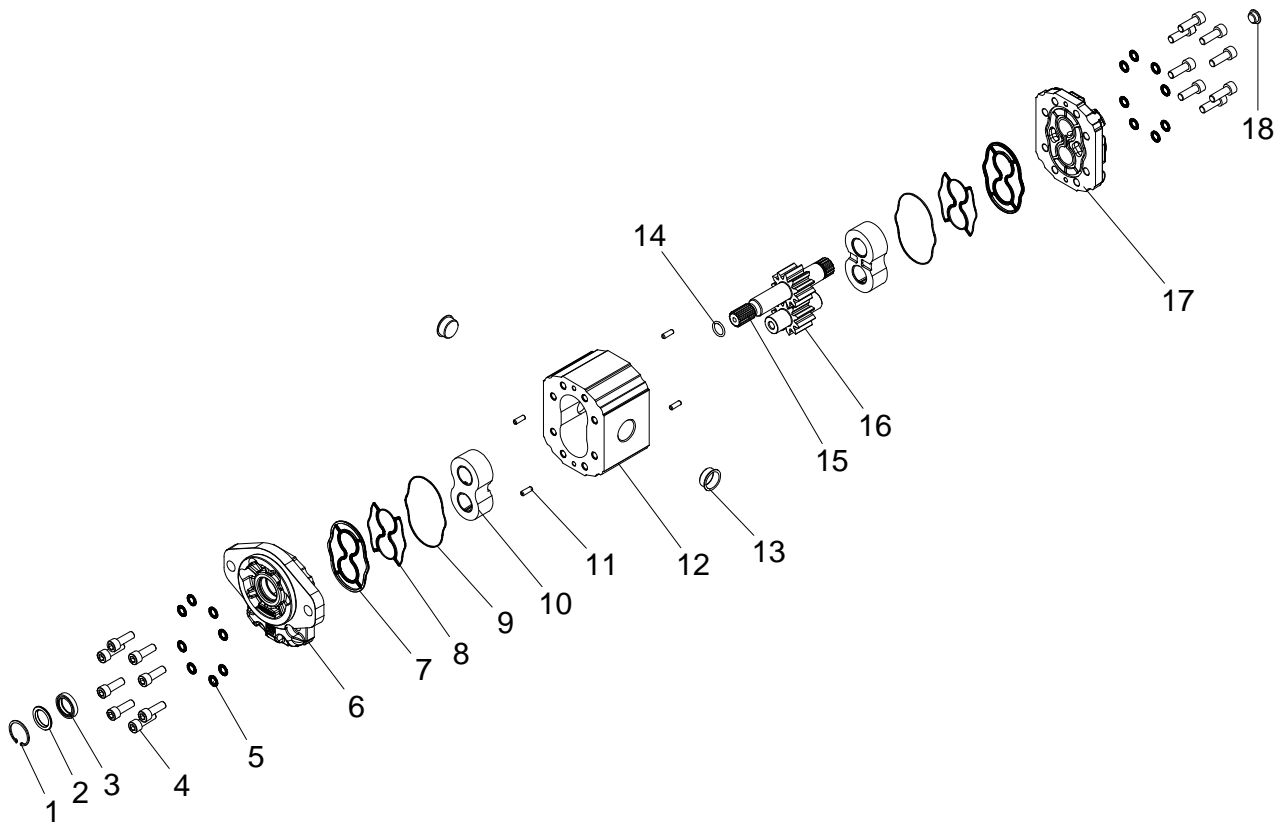
P1) Max. working pressure - P3) Max. peak pressure
 For heavy-duty applications, it is recommended to check the admissible torque of the shaft

| Dimensions table | | | | | |
|------------------|--------|-------|------|-------------|-------------|
| TYPE | Weight | A | B | D | D |
| | kg | mm | mm | IN | OUT |
| XV-3M/15 | 7,010 | 124,0 | 61,0 | 3/4" BSPP | 3/4" BSPP |
| XV-3M/18 | 7,070 | 126,0 | 62,0 | 3/4" BSPP | 3/4" BSPP |
| XV-3M/21 | 7,150 | 129,0 | 63,5 | 3/4" BSPP | 3/4" BSPP |
| XV-3M/27 | 7,250 | 133,0 | 65,5 | 1" BSPP | 1" BSPP |
| XV-3M/32 | 7,390 | 138,0 | 68,0 | 1" BSPP | 1" BSPP |
| XV-3M/38 | 7,520 | 143,0 | 70,5 | 1" BSPP | 1" BSPP |
| XV-3M/43 | 7,630 | 147,0 | 72,5 | 1" BSPP | 1" BSPP |
| XV-3M/47 | 7,710 | 150,0 | 74,0 | 1" BSPP | 1" BSPP |
| XV-3M/51 | 7,790 | 153,0 | 75,5 | 1" BSPP | 1" BSPP |
| XV-3M/54 | 7,870 | 156,0 | 77,0 | 1" BSPP | 1" BSPP |
| XV-3M/61 | 8,010 | 161,0 | 79,5 | 1" 1/4 BSPP | 1" 1/4 BSPP |
| XV-3M/64 | 8,090 | 164,0 | 81,0 | 1" 1/4 BSPP | 1" 1/4 BSPP |
| XV-3M/70 | 8,220 | 169,0 | 83,5 | 1" 1/4 BSPP | 1" 1/4 BSPP |
| XV-3M/74 | 8,300 | 172,0 | 85,0 | 1" 1/4 BSPP | 1" 1/4 BSPP |
| XV-3M/90 | 8,570 | 182,0 | 90,0 | 1" 1/4 BSPP | 1" 1/4 BSPP |



T.1 = 60÷65 [Nm] - screw tightening torque M10
 T.2 = 264 [Nm] - admissible shaft torque (N.B. When choosing a shaft, always check the admissible torque).
 T.4 = 0.3÷0.5 bar - max. drainage pressure

Example of ordering code:

X3M7831IEEE XV3M/38 - ø101,6 SAE B /R - SCF04 - 1" BSP - 1" BSP - Dren. est.

Basic list

| Pos. | Item description | Item | Size | Quantity |
|------|---|------------|-------|----------|
| 1 | ø35 INTERNAL SNAP RING DIN 472 | 560.0025.A | 0 | 1 |
| 2 | BACK UP WASHER OIL SEAL XV3M | 300.0029.A | 0 | 1 |
| 3 | OIL SEAL 25 x 35 x 7 SC (BA) | 690.0095.A | 0 | 1 |
| 4 | WHITE GALVANISED SCREW TCCE M10x30 UNI 5931 8.8 | 521.0010.A | L030 | 16 |
| 5 | SCHNORR WASHER ø10xø15.8 H=1 BLUED | 550.0015.A | 0 | 16 |
| 6 | XV3 101,6 SAE B FLANGE | 300.0036.A | 0 | 1 |
| 7 | INJECTION-MOLDED SEAL XV3 (NBR 740/70) | 300.0005.C | 0 | 2 |
| 8 | XV3 BACK-UP ELEMENT FOR BALANCING | 300.0003.A | 0 | 2 |
| 9 | EXTERNAL BACK-UP ELEMENT XV3 | 300.0004.A | 0 | 2 |
| 10 | XV3 BUSH H=27 | 300.0009.A | 0 | 2 |
| 11 | PIN ø6x18 | 570.0044.A | 0 | 4 |
| 12 | BODY W/THREAD BSP STANDARD - cc=38 | 300.0026.A | H85 | 1 |
| 13 | PLASTIC PLUG ø32 | 580.0001.A | D32 | 2 |
| 14 | OR 17.13 x 2.62 | 650.0086.A | 0 | 1 |
| 15 | SCP04 SAE - SPLINED PRIMARY DRIVING GEAR | 300.0049.A | CC38 | 1 |
| 16 | COND2 - PERFORATED DRIVEN GEAR | 300.0010.A | CC38 | 1 |
| 17 | STANDARD XV3 COVER W/DRAINAGE 3/8" BSP | 300.0034.X | F3ZZL | 1 |
| 18 | PLASTIC PLUG ø15,5 | 580.0001.A | D15,5 | 1 |

reversible motor - series XV

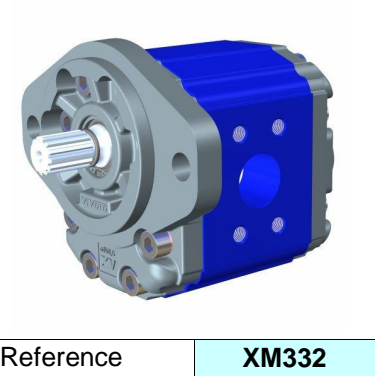
XV-3M

SAE B TYPE MOTOR
 ø101.6 FLANGE - SPLINED SHAFT



X 3 M 78 31 I O O E

| | | |
|--------------|-----|--|
| Series | X | series XV |
| Group | 3 | group 3 |
| Category | M | reversible motor |
| Displacement | 78 | 38 |
| Flange | 31 | Ø101.6 SAE B reversible rotation |
| Shaft | I | |
| Body | IN | inlet - SAE 30,18 X 58,72 - ø32 - 7/16-14UNC-2B |
| | OUT | outlet - SAE 30,18 X 58,72 - ø32 - 7/16-14UNC-2B |
| Cover | E | with external drainage |

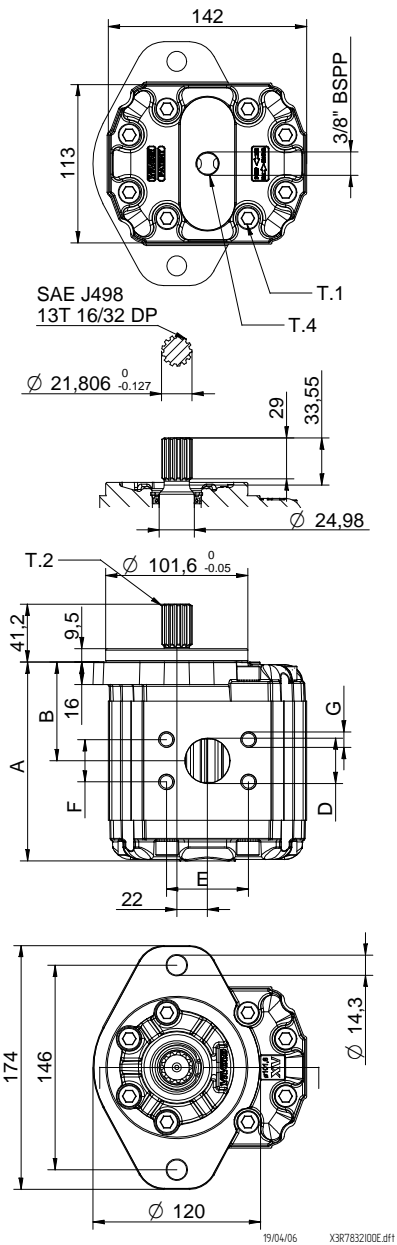


Reference **XM332**

| Technical data table | | | | | | | |
|----------------------|-------------------------|---------------|--------|---------------------|---------------------|-------------------|--|
| TYPE | Displacement cm3/rev | Max. Pressure | | CODE | | | |
| | | P1 bar | P3 bar | External drainage | | Internal drainage | |
| XV-3M/15 | 14,89 | 250 | 270 | X 3 M 66 31 I N N E | X 3 M 66 31 I N N F | | |
| XV-3M/18 | 17,37 | 250 | 270 | X 3 M 68 31 I N N E | X 3 M 68 31 I N N F | | |
| XV-3M/21 | 21,10 | 250 | 270 | X 3 M 70 31 I N N E | X 3 M 70 31 I N N F | | |
| XV-3M/27 | 26,97 | 250 | 270 | X 3 M 72 31 I N N E | X 3 M 72 31 I N N F | | |
| XV-3M/32 | 32,27 | 250 | 270 | X 3 M 74 31 I O O E | X 3 M 74 31 I O O F | | |
| XV-3M/38 | 38,47 | 250 | 270 | X 3 M 78 31 I O O E | X 3 M 78 31 I O O F | | |
| XV-3M/43 | 43,44 | 250 | 270 | X 3 M 79 31 I O O E | X 3 M 79 31 I O O F | | |
| XV-3M/47 | 47,16 | 230 | 250 | X 3 M 80 31 I O O E | X 3 M 80 31 I O O F | | |
| XV-3M/51 | 50,88 | 230 | 250 | X 3 M 81 31 I O O E | X 3 M 81 31 I O O F | | |
| XV-3M/54 | 54,60 | 230 | 250 | X 3 M 82 31 I O O E | X 3 M 82 31 I O O F | | |
| XV-3M/61 | 60,81 | 230 | 250 | X 3 M 83 31 I P P E | X 3 M 83 31 I P P F | | |
| XV-3M/64 | 64,53 | 210 | 230 | X 3 M 85 31 I P P E | X 3 M 85 31 I P P F | | |
| XV-3M/70 | 70,74 | 200 | 220 | X 3 M 86 31 I P P E | X 3 M 86 31 I P P F | | |
| XV-3M/74 | 74,46 | 180 | 200 | X 3 M 87 31 I P P E | X 3 M 87 31 I P P F | | |
| XV-3M/90 | 86,87 | 150 | 170 | X 3 M 89 31 I P P E | X 3 M 89 31 I P P F | | |

P1) Max. working pressure - P3) Max. peak pressure
 For heavy-duty applications, it is recommended to check the admissible torque of the shaft

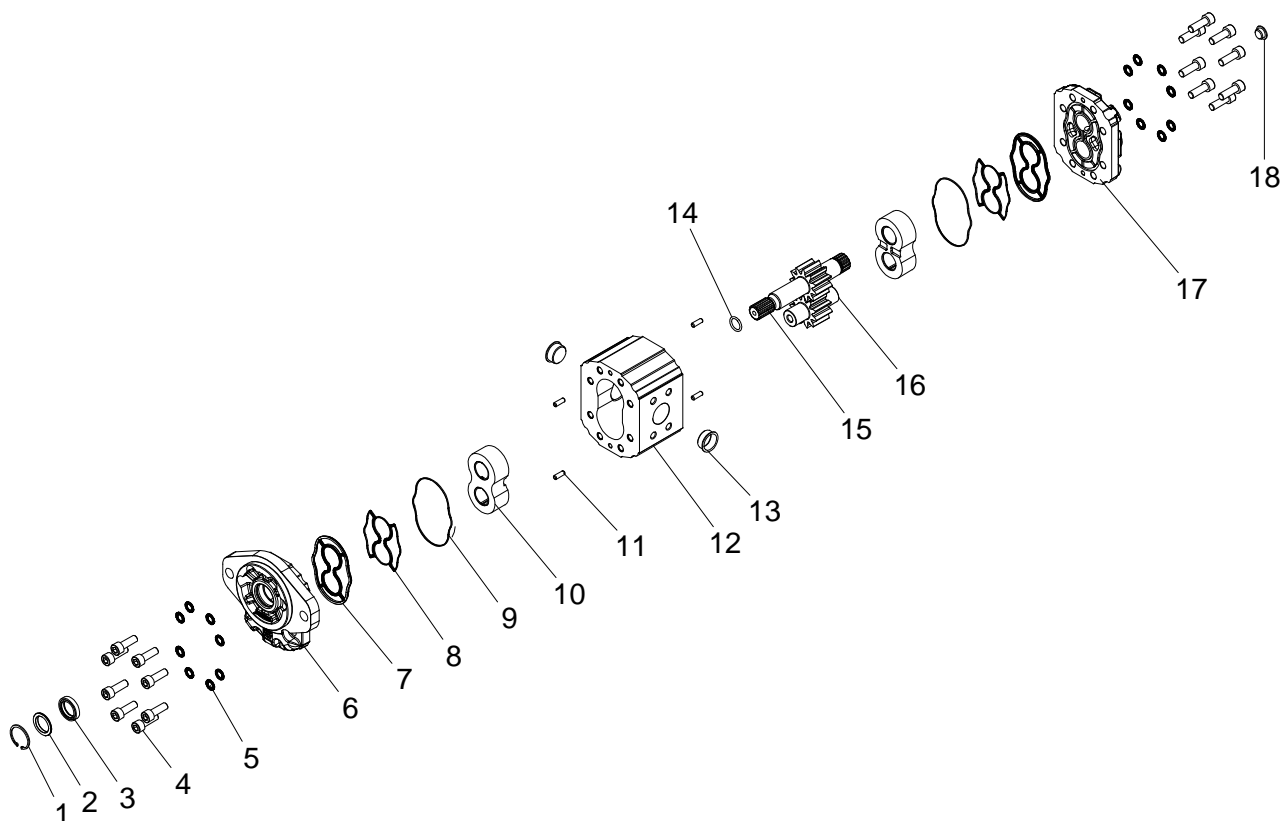
| Dimensions table | | | | | | | |
|------------------|--------|-------|------|----------|-------|-------|---------------|
| TYPE | Weight | A | B | D | E | F | G |
| | kg | mm | mm | IN - OUT | | | |
| XV-3M/15 | 7,010 | 124,0 | 61,0 | ø25 | 52,37 | 26,19 | 3/8-16UNC-2B |
| XV-3M/18 | 7,070 | 126,0 | 62,0 | ø25 | 52,37 | 26,19 | 3/8-16UNC-2B |
| XV-3M/21 | 7,150 | 129,0 | 63,5 | ø25 | 52,37 | 26,19 | 3/8-16UNC-2B |
| XV-3M/27 | 7,250 | 133,0 | 65,5 | ø25 | 52,37 | 26,19 | 3/8-16UNC-2B |
| XV-3M/32 | 7,390 | 138,0 | 68,0 | ø32 | 58,72 | 30,18 | 7/16-14UNC-2B |
| XV-3M/38 | 7,520 | 143,0 | 70,5 | ø32 | 58,72 | 30,18 | 7/16-14UNC-2B |
| XV-3M/43 | 7,630 | 147,0 | 72,5 | ø32 | 58,72 | 30,18 | 7/16-14UNC-2B |
| XV-3M/47 | 7,710 | 150,0 | 74,0 | ø32 | 58,72 | 30,18 | 7/16-14UNC-2B |
| XV-3M/51 | 7,790 | 153,0 | 75,5 | ø32 | 58,72 | 30,18 | 7/16-14UNC-2B |
| XV-3M/54 | 7,870 | 156,0 | 77,0 | ø32 | 58,72 | 30,18 | 7/16-14UNC-2B |
| XV-3M/61 | 8,010 | 161,0 | 79,5 | ø38 | 69,85 | 35,71 | 1/2-13UNC-2B |
| XV-3M/64 | 8,090 | 164,0 | 81,0 | ø38 | 69,85 | 35,71 | 1/2-13UNC-2B |
| XV-3M/70 | 8,220 | 169,0 | 83,5 | ø38 | 69,85 | 35,71 | 1/2-13UNC-2B |
| XV-3M/74 | 8,300 | 172,0 | 85,0 | ø38 | 69,85 | 35,71 | 1/2-13UNC-2B |
| XV-3M/90 | 8,570 | 182,0 | 90,0 | ø38 | 69,85 | 35,71 | 1/2-13UNC-2B |



T.1 = 60÷65 [Nm] - screw tightening torque M10
 T.2 = 264 [Nm] - admissible shaft torque (N.B. When choosing a shaft, always check the admissible torque).
 T.4 = 0.3÷0.5 bar - max. drainage pressure

| | |
|-----------|--------------|
| Reference | XM332 |
|-----------|--------------|

Example of ordering code:

X3M7831IOOE XV3M/38 - Ø101,6 SAE B /R - SCF04 - SAE Ø32 # - SAE Ø32 # - Dren. est.


| Basic list | | | | |
|------------|---|------------|-------|----------|
| Pos. | Item description | Item | Size | Quantity |
| 1 | ø35 INTERNAL SNAP RING DIN 472 | 560.0025.A | 0 | 1 |
| 2 | BACK UP WASHER OIL SEAL XV3M | 300.0029.A | 0 | 1 |
| 3 | OIL SEAL 25 x 35 x 7 SC (BA) | 690.0095.A | 0 | 1 |
| 4 | WHITE GALVANISED SCREW TCCE M10x30 UNI 5931 8.8 | 521.0010.A | L030 | 16 |
| 5 | SCHNORR WASHER ø10xø15.8 H=1 BLUED | 550.0015.A | 0 | 16 |
| 6 | XV3 101,6 SAE B FLANGE | 300.0036.A | 0 | 1 |
| 7 | INJECTION-MOLDED SEAL XV3 (NBR 740/70) | 300.0005.C | 0 | 2 |
| 8 | XV3 BACK-UP ELEMENT FOR BALANCING | 300.0003.A | 0 | 2 |
| 9 | EXTERNAL BACK-UP ELEMENT XV3 | 300.0004.A | 0 | 2 |
| 10 | XV3 BUSH H=27 | 300.0009.A | 0 | 2 |
| 11 | PIN ø6x18 | 570.0044.A | 0 | 4 |
| 12 | STANDARD BOSCH FLANGED BODY H= 85 | 300.0046.A | H85 | 1 |
| 13 | PLASTIC PLUG ø32 | 580.0001.A | D32 | 2 |
| 14 | OR 17.13 x 2.62 | 650.0086.A | 0 | 1 |
| 15 | SCP04 SAE - SPLINED PRIMARY DRIVING GEAR | 300.0049.A | CC38 | 1 |
| 16 | COND2 - PERFORATED DRIVEN GEAR | 300.0010.A | CC38 | 1 |
| 17 | STANDARD XV3 COVER W/DRAINAGE 3/8" BSP | 300.0034.X | F3ZZL | 1 |
| 18 | PLASTIC PLUG ø15,5 | 580.0001.A | D15,5 | 1 |