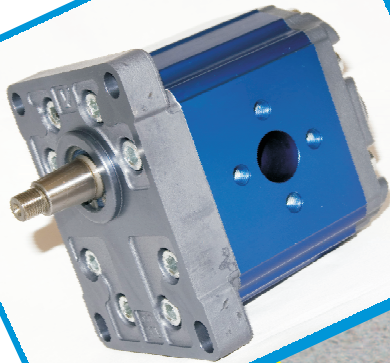
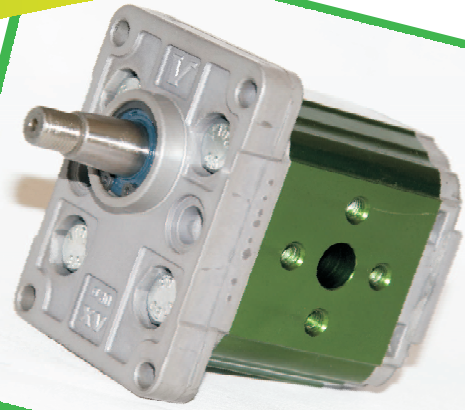
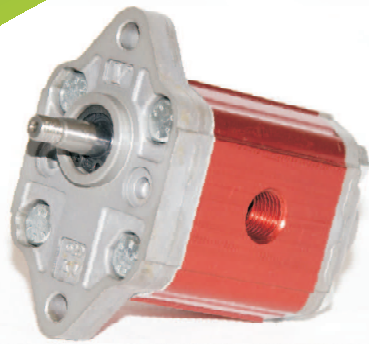
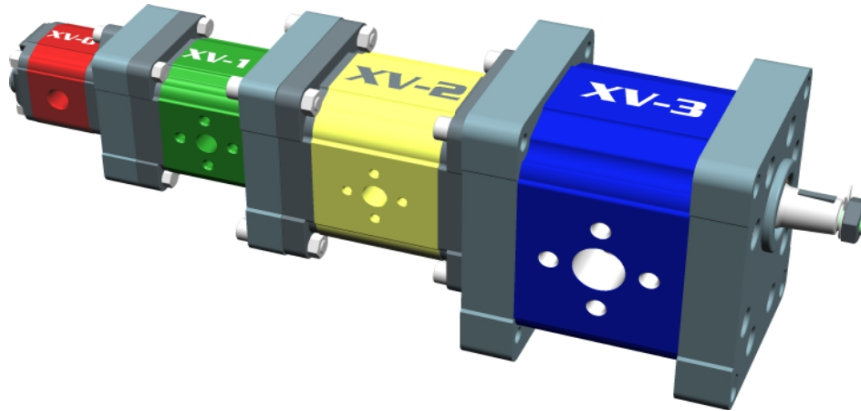


VIVOIL



ENGLISH

Unidirectional Motors



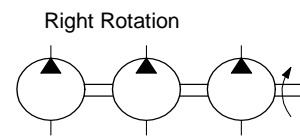
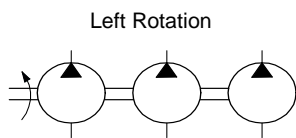
| | | | |
|--------------|----------------------------|---------------|----------------|
| XV-0P | Unidirectional Pump | Left Rotation | Right Rotation |
| XV-1P | | | |
| XV-2P | | | |
| XV-3P | | | |

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

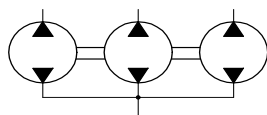
| | | | |
|--------------|------------------------|-------------------|-------------------|
| XV-0R | Reversible Pump | External drainage | Internal drainage |
| XV-1R | | | |
| XV-2R | | | |
| XV-3R | | | |

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

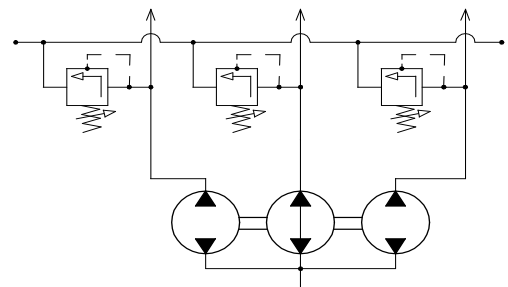
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|--------------|--------------|--------------|--------------|---|--|
| XV-0T | XV-1T | XV-2T | XV-3T | Primary element of multiple pump | |
| XV-0I | XV-1I | XV-2I | XV-3I | | Intermediate element of multiple pump |
| XV-0F | XV-1F | XV-2F | XV-3F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



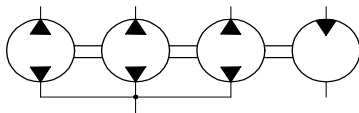
| | |
|--------------|---------------------|
| KV-DF | Flow divider |
|--------------|---------------------|



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

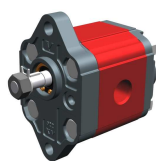


| | |
|----------------|--------------------------------|
| KV-DF+M | Flow divider with motor |
|----------------|--------------------------------|



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XV-0U



XU001

STANDARD MOTOR

ø22 FLANGE - PARALLEL SHAFT

30

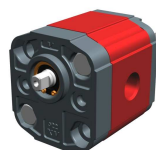


XU012

BH TYPE MOTOR

ø22 BODY-SHAPED FLANGE - MILLED SHANK

32



XU017

HY TYPE MOTOR

ø22 BODY-SHAPED FLANGE - MILLED SHANK

34

XV-1U

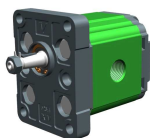


XU101

STANDARD EUROPEAN MOTOR

ø25.4 FLANGE - TAPER SHAFT

36



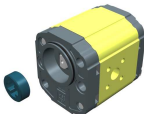
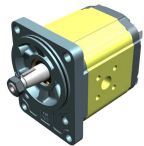
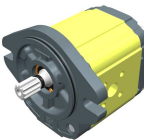
XU105

STANDARD EUROPEAN MOTOR

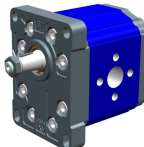
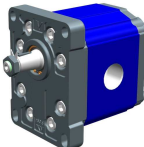
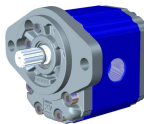
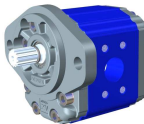
ø25.4 FLANGE - TAPER SHAFT

38

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| <hr/> | | | |
|  | XU140 | HY TYPE MOTOR ø32 BODY-SHAPED FLANGE - MILLED SHANK | 44 |
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| <hr/> | | | |
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XV-3U

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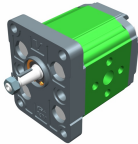
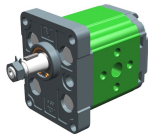
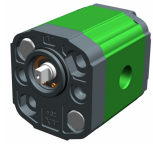


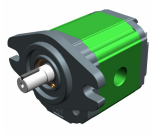


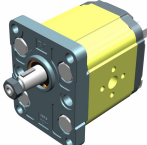
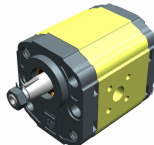
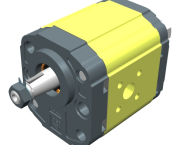
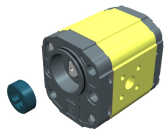
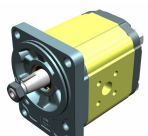
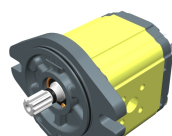
UNIDIRECTIONAL MOTORS

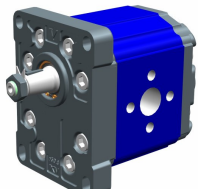
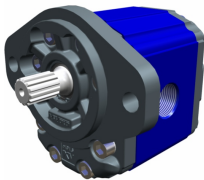
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| Standard Ø22 FLANGE | Ø22 BH FLANGE | Ø22 HY FLANGE |

| XV-1U | | |
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| References: XU-101 | References: XU-113 | References: XU-119 |
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| Ø36.5 FLANGE | Ø50 BH FLANGE | Ø50 HY FLANGE |
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| References: XU-216 | References : XU-217 | References : XU-219 |
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| XV-3P | |
|---|---|
|  |  |
| References : XU-301 | References : XU-331 |
| FLANGE Ø50,8 - Standard | FLANGE Ø101,6 SAE B |

Vivoil Oleodinamica

Vivolo s.r.l. presents a new series of gear motors called **XV-U**.

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-0U 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.

The main features of the XV-1U 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.

The main features of the XV-2U 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.

The main features of the XV-3U 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.

Summary: Displacements - Torque - Power - Pressures - Speeds

| | TYPE | Displacement | Torque | Power | Max Inlet Pressure | Max Outlet Pressure | Min Starting Pressure | Min Speed | Max Speed |
|--------------|------------|----------------------------|--------------|----------|--------------------|---------------------|-----------------------|-------------|--------------|
| | | | 1000 rev/min | 100 bar | | | | | |
| XV-0U | XV-0U/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-0U/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-0U/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-0U/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-0U/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-0U/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-0U/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-1U | XV-1U/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-1U/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-1U/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-1U/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-1U/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-1U/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-1U/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-1U/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-1U/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-1U/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-1U/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-1U/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-1U/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-2U | XV-2U/4 | 4.2 cm ³ /rev | 5,68 Nm | 0,60 KW | 300 bar | 6 bar | 30 bar | 700 rev/min | 3500 rev/min |
| | XV-2U/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-2U/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-2U/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-2U/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-2U/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-2U/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-2U/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-2U/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-2U/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-2U/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-2U/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-3U | XV-3U/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-3U/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-3U/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-3U/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-3U/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-3U/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-3U/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-3U/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-3U/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-3U/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-3U/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-3U/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-3U/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-3U/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-3U/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. inlet fluid pressure (OUT) | 0.3 - 0.5 bars (for higher pressures consult the manufacturer) |
| 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 0U/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 0U/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 0U/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 0U/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 0U/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 0U/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 0U/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 1U/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 1U/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 1U/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 1U/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 1U/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 1U/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 1U/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 1U/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 1U/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 1U/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 1U/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 1U/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 1U/9.8 | 9,88 | | 6,860 | 9,800 | 14,700 | 19,600 | 24,500 | 29,400 | 34,300 | 39,200 | | | | | |

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-0U | [A] - CI001 - Parallel ø 7 - M 7x1 - key thk sp.2 | 2 |
| | | [B] - CF001 - Milled shank ø 7 - sp. 5 | 9,2 |
| | | [F] - CF005 - Milled shank ø 7 - sp.4,5 L = 9 | 8 |
| | XV-1U | [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-2U | [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-3U | [A] - COP01 - 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 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 shaft; if necessary, use suitable supports.

Always use well-filtered oils containing no water or other emulsifying substance.

Never run the pump with oil and air solutions.

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

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

Useful calculation formulas

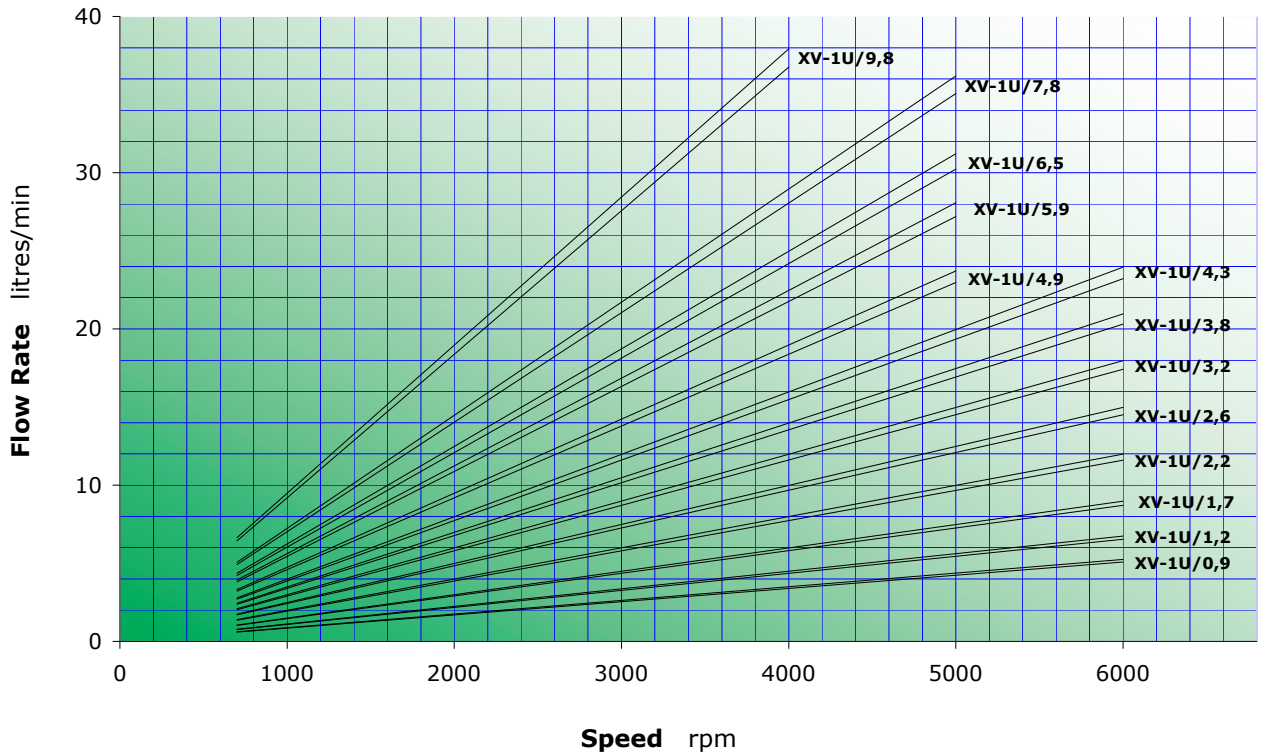
| SYMBOL, UNIT OF MEASUREMENT, DESCRIPTION | | |
|--|-----------------------|---|
| qv | l/min | Flow rate |
| vi | cm ³ /rev. | Displacement (volume of oil displaced per complete revolution of the shaft) |
| n | rpm | Shaft rotation speed |
| p1 | bar | inlet pressure |
| p2 | bar | outlet pressure |
| 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 | |
|---|---|---|
| $qv = \frac{vi \times n}{1000} \times \eta v$ | $vi = \frac{qv \times 1000}{n \times \eta v}$ | $n = \frac{qv \times 1000}{vi \times \eta v}$ |
| $T = \frac{vi \times \Delta p \times \eta m}{20 \times \pi}$ | $vi = \frac{T \times 20 \times \pi}{\Delta p \times \eta m}$ | $\Delta p = \frac{T \times 20 \times \pi}{vi \times \eta m}$ |
| $Ph = \frac{qv \times \Delta p}{600}$ | $qv = \frac{Ph \times 600}{\Delta p}$ | $\Delta p = \frac{Ph \times 600}{qv}$ |
| $Pm = \frac{vi \times \Delta p \times n \times \eta m}{600000}$ | $vi = \frac{Pm \times 600000}{\Delta p \times n \times \eta m}$ | $\Delta p = \frac{600000 \times \eta m}{vi \times n \times \eta m}$ |

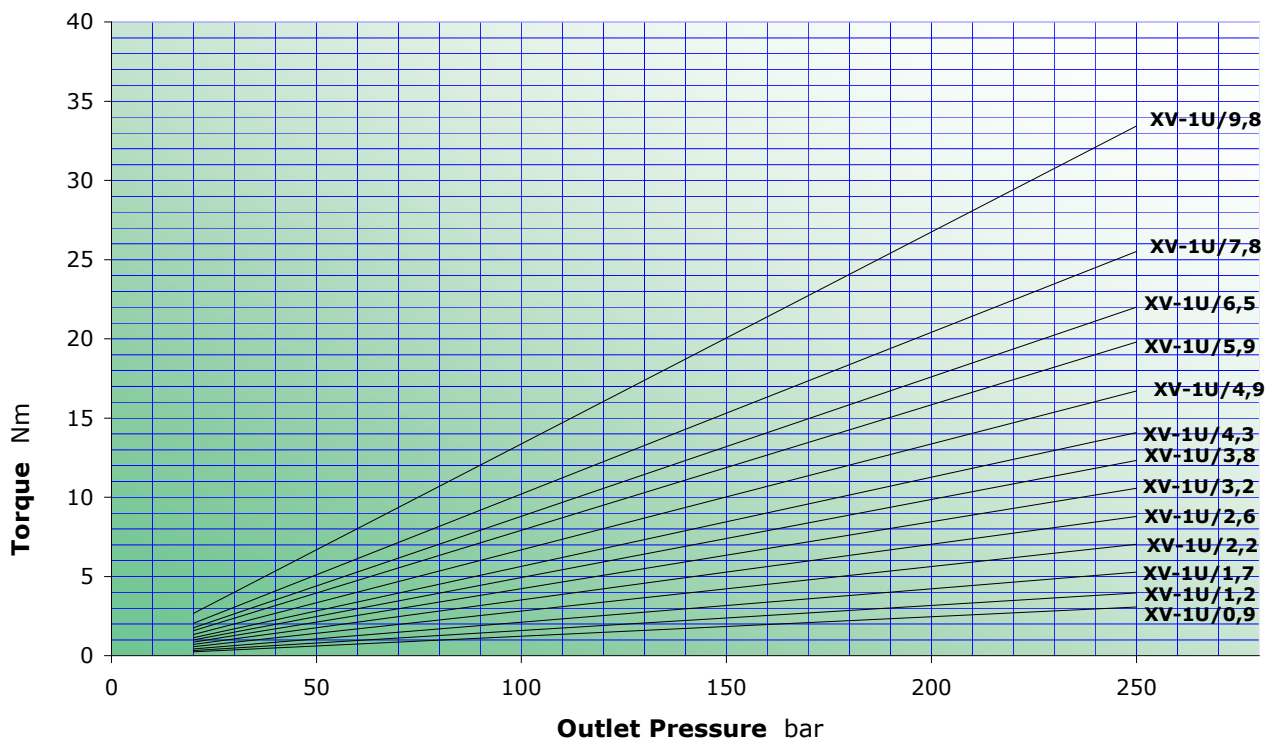
Constructive features

| PART | MATERIAL | MECHANICAL FEATURES |
|---------------------------|---|---|
| PUMP 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-1U CHARACTERISTIC FLOW RATE CURVES



XV-1U MOTOR TORQUE



XV1-U with Flange $\varnothing 25.4$ (ref. XU- 101)

When changing the direction of rotation of the XV-1U motor, it is not necessary to change the flange, as the same one is used.

When disassembling and reassembling the motor, take special care to ensure that seals and back-up rings do not come out of place and that no foreign bodies, such as shavings or dirt in general, get inside the motor.

| Flange $\varnothing 25,4$ (ref. XU- 101) | | | | | |
|---|-----------------------------|--|---|---|--|
| | | | | | |
| <p>Remove the key, nut and washer from the shaft. Loosen and remove the fastening screws.</p> | <p>Take off the flange.</p> | <p>Take out the gears and upper bush.</p> <p>Warning!! The bush must never be turned.</p> | <p>Invert the positions of the driven and driving shafts.</p> <p>Warning! The body and cover must not be turned. Use the marking on the body as your reference.</p> | <p>Fit the previously removed flange back in place taking care to clean the body-base contact surfaces.</p> | <p>Replace the screws and tighten the nuts with a torque of 24.5 Nm to 29.4 Nm.</p> <p>Check that the shaft turns on completing the operation.</p> |
| <p>Note: with this rotation change system, the inlets and outlets remain unchanged.</p> | | | | | |

XV1-U with Flange $\varnothing 30$ (ref. XU- 113)

When changing the direction of rotation of the XV-1P motor, it is not necessary to change the flange, as the same one is used.

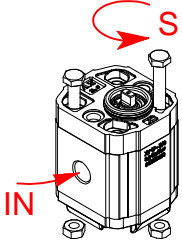
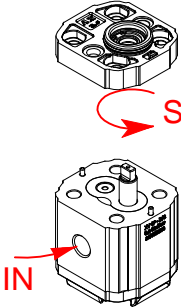
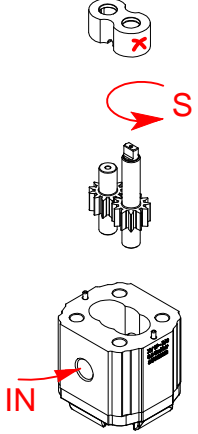
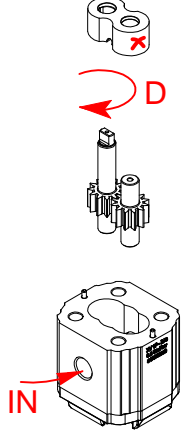
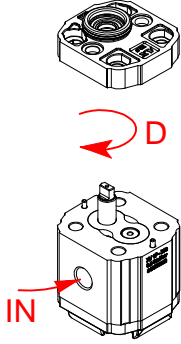
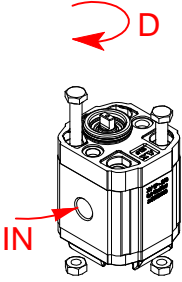
When disassembling and reassembling the motor, take special care to ensure that seals and back-up rings do not come out of place and that no foreign bodies, such as shavings or dirt in general, get inside the motor.

| Flange $\varnothing 30$ (ref. XU- 113) | | | | | |
|--|----------------------|---|---|--|--|
| | | | | | |
| Remove the key, nut and washer from the shaft. Loosen and remove the fastening screws. | Take off the flange. | Take out the gears and upper bush. Warning!! The bush must be turned. | Invert the positions of the driven and driving shafts. Warning! The body and cover must not be turned. Use the marking on the body as your reference. | Fit the previously removed flange back in place taking care to clean the body-base contact surfaces. | Replace the screws and tighten the nuts with a torque of 24.5 Nm to 29.4 Nm. Check that the shaft turns on completing the operation. |
| Note: with this rotation change system, the inlets and outlets remain unchanged. | | | | | |

XV1-U with Flange $\varnothing 32$ BH-HY (ref. from XU- 119 to: XU- 140)

When changing the direction of rotation of the XV-1P motor, it is not necessary to change the flange, as the same one is used.

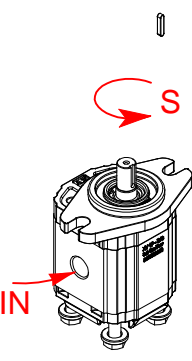
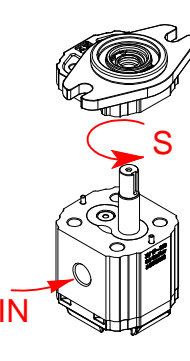
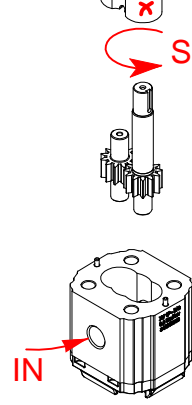
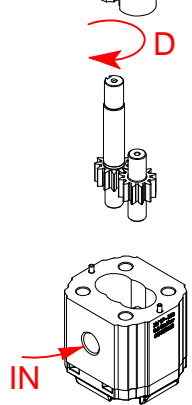
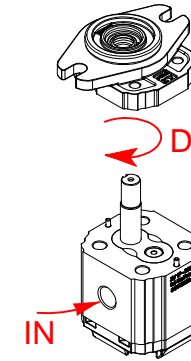
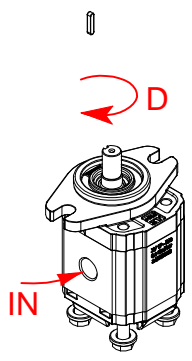
When disassembling and reassembling the motor, take special care to ensure that seals and back-up rings do not come out of place and that no foreign bodies, such as shavings or dirt in general, get inside the motor.

| FLANGE $\varnothing 32$ BH-HY (ref. da XU- 119 a: XU- 140) | | | | | |
|---|--|--|---|---|---|
|  |  |  |  |  |  |
| <p>Loosen and remove the fastening screws.</p> | <p>Take off the flange.</p> | <p>Take out the gears and upper bush. Warning!! The bush must never be turned.</p> | <p>Invert the positions of the driven and driving shafts. Warning! The body and cover must not be turned. Use the marking on the body as your reference.</p> | <p>Fit the previously removed flange back in place taking care to clean the body-base contact surfaces.</p> | <p>Replace the screws and tighten the nuts with a torque of 24.5 Nm to 29.4 Nm. Check that the shaft turns on completing the operation.</p> |
| <p>Note: with this rotation change system, the inlets and outlets remain unchanged.</p> | | | | | |

XV1-U with Flange ø50.8 SAE-AA (ref. XU- 168)

When changing the direction of rotation of the XV-1P motor, it is not necessary to change the flange, as the same one is used.

When disassembling and reassembling the motor, take special care to ensure that seals and back-up rings do not come out of place and that no foreign bodies, such as shavings or dirt in general, get inside the motor.

| FLANGE ø50.8 SAE-AA (ref. XU- 168) | | | | | |
|---|--|--|---|---|---|
|  |  |  |  |  |  |
| <p>Remove the key from the shaft. Loosen and remove the fastening screws.</p> | <p>Take off the flange.</p> | <p>Take out the gears and upper bush. Warning!! The bush must be turned.</p> | <p>Invert the positions of the driven and driving shafts. Warning! The body and cover must not be turned. Use the marking on the body as your reference.</p> | <p>Fit the previously removed flange back in place taking care to clean the body-base contact surfaces.</p> | <p>Replace the screws back in place and tighten the nuts with a torque of 24.5 Nm to 29.4 Nm. Check that the shaft turns on completing the operation.</p> |
| <p>Note: with this rotation change system, the inlets and outlets remain unchanged.</p> | | | | | |

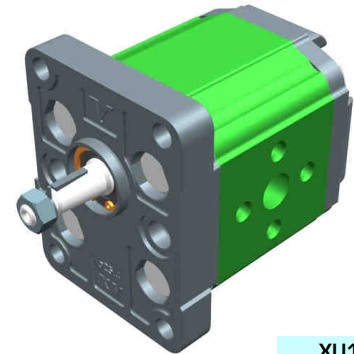
unidirectional motor - series XV

XV-1U

STANDARD EUROPEAN MOTOR
 ø25.4 FLANGE - TAPER SHAFT

X 1 U 25 02 F I I A

| | | |
|--------------|-----|--|
| Series | X | series XV |
| Group | 1 | group 1 |
| Category | U | unidirectional motor |
| Displacement | 25 | 3.8 |
| Flange | 02 | Ø25.4 STANDARD EUROPEAN right 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 | A | standard |



XU101

Technical data table

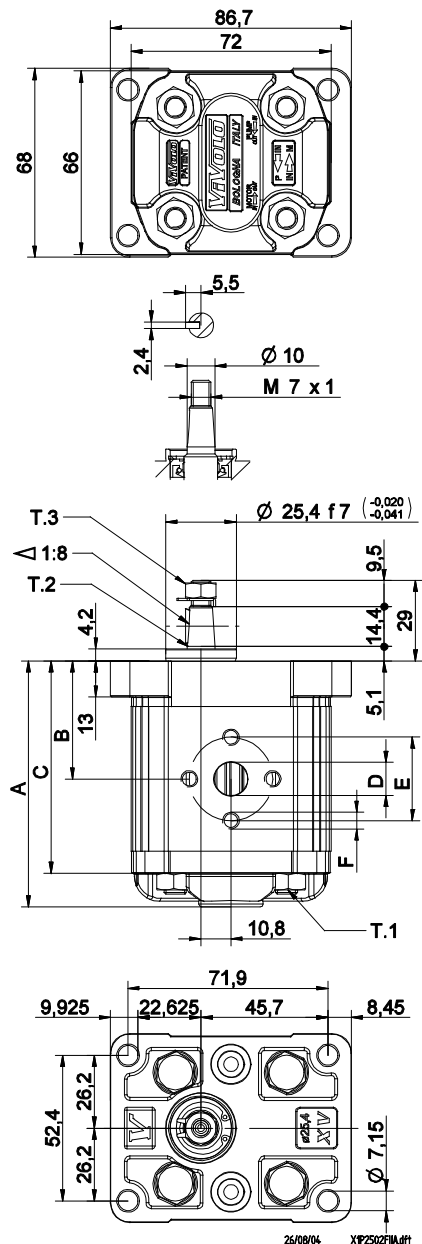
| TYPE | Displacement cm3/rev | Max. Pressure | | CODE | |
|-----------|-------------------------|---------------|--------|---------------------|---------------------|
| | | P1 bar | P3 bar | Left rotation | Right rotation |
| XV-1U/0.9 | 0,91 | 240 | 280 | X 1 U 16 01 F I I A | X 1 U 16 02 F I I A |
| XV-1U/1.2 | 1,17 | 250 | 290 | X 1 U 17 01 F I I A | X 1 U 17 02 F I I A |
| XV-1U/1.7 | 1,56 | 250 | 290 | X 1 U 18 01 F I I A | X 1 U 18 02 F I I A |
| XV-1U/2.2 | 2,08 | 250 | 290 | X 1 U 20 01 F I I A | X 1 U 20 02 F I I A |
| XV-1U/2.6 | 2,60 | 250 | 300 | X 1 U 21 01 F I I A | X 1 U 21 02 F I I A |
| XV-1U/3.2 | 3,12 | 250 | 300 | X 1 U 23 01 F I I A | X 1 U 23 02 F I I A |
| XV-1U/3.8 | 3,64 | 250 | 300 | X 1 U 25 01 F I I A | X 1 U 25 02 F I I A |
| XV-1U/4.3 | 4,16 | 250 | 300 | X 1 U 27 01 F I I A | X 1 U 27 02 F I I A |
| XV-1U/4.9 | 4,94 | 250 | 300 | X 1 U 29 01 F I I A | X 1 U 29 02 F I I A |
| XV-1U/5.9 | 5,85 | 250 | 300 | X 1 U 31 01 F I I A | X 1 U 31 02 F I I A |
| XV-1U/6.5 | 6,50 | 250 | 300 | X 1 U 32 01 F I I A | X 1 U 32 02 F I I A |
| XV-1U/7.8 | 7,54 | 220 | 260 | X 1 U 34 01 F I I A | X 1 U 34 02 F I I A |
| XV-1U/9.8 | 9,88 | 190 | 230 | X 1 U 36 01 F I I A | X 1 U 36 02 F I I A |

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 | mm | mm | mm | mm | mm | mm |
| XV-1U/0.9 | 0,950 | 78,1 | 37,3 | 66,1 | ø12 | 30 | M6x1 | ø12 | 30 | M6x1 |
| XV-1U/1.2 | 0,970 | 79,0 | 37,8 | 67,0 | ø12 | 30 | M6x1 | ø12 | 30 | M6x1 |
| XV-1U/1.7 | 1,010 | 80,5 | 38,5 | 68,5 | ø12 | 30 | M6x1 | ø12 | 30 | M6x1 |
| XV-1U/2.2 | 1,030 | 82,5 | 39,5 | 70,5 | ø12 | 30 | M6x1 | ø12 | 30 | M6x1 |
| XV-1U/2.6 | 1,060 | 84,5 | 40,5 | 72,5 | ø12 | 30 | M6x1 | ø12 | 30 | M6x1 |
| XV-1U/3.2 | 1,090 | 86,5 | 41,5 | 74,5 | ø12 | 30 | M6x1 | ø12 | 30 | M6x1 |
| XV-1U/3.8 | 1,120 | 88,5 | 42,5 | 76,5 | ø12 | 30 | M6x1 | ø12 | 30 | M6x1 |
| XV-1U/4.3 | 1,170 | 90,5 | 43,5 | 78,5 | ø12 | 30 | M6x1 | ø12 | 30 | M6x1 |
| XV-1U/4.9 | 1,200 | 93,5 | 45,0 | 81,5 | ø12 | 30 | M6x1 | ø12 | 30 | M6x1 |
| XV-1U/5.9 | 1,260 | 97,0 | 46,8 | 85,0 | ø12 | 30 | M6x1 | ø12 | 30 | M6x1 |
| XV-1U/6.5 | 1,300 | 98,5 | 48,0 | 86,5 | ø12 | 30 | M6x1 | ø12 | 30 | M6x1 |
| XV-1U/7.8 | 1,360 | 103,5 | 50,0 | 91,5 | ø12 | 30 | M6x1 | ø12 | 30 | M6x1 |
| XV-1U/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).

Table of variations

XV-1U

ø25.4 FLANGE

| ø25.4 FLANGE | | | | Shaft | | | | Cover | | | |
|---------------|----|----------------|----|--|---|---|---|---------------|--|----------------|---|
| Left rotation | | Right rotation | | | | | | Left rotation | | Right rotation | |
| | 01 | | 02 | CO001 - Tapered T.2 = 43 [Nm] | F | CF002 - Milled shank T.2 = 13.8 [Nm] | D | | | | A |
| | 03 | | 04 | SCF04 - Splined T.2 = 22.6 [Nm] m=1,6 Z=6 DIN 5482 - 12x9 | J | SCF02 - Splined T.2 = 42.8 [Nm] m=0,75 Z=15 | L | | | | B |
| | 05 | | 06 | SCF01 - Splined T.2 = 42.8 [Nm] m=0,75 Z=15 | Q | SCF03 - Splined T.2 = 42.8 [Nm] m=0,75 Z=15 | R | | | | C |
| | 07 | | 08 | | | | | | | | D |

| Displacement | |
|--------------|------|
| TYPE | CODE |
| XV-1U/0.9 | 16 |
| XV-1U/1.2 | 17 |
| XV-1U/1.7 | 18 |
| XV-1U/2.2 | 20 |
| XV-1U/2.6 | 21 |
| XV-1U/3.2 | 23 |
| XV-1U/3.8 | 25 |
| XV-1U/4.3 | 27 |
| XV-1U/4.9 | 29 |
| XV-1U/5.9 | 31 |
| XV-1U/6.5 | 32 |
| XV-1U/7.8 | 34 |
| XV-1U/9.8 | 36 |

| Displacement cm ³ /rev | Standard bodies | | | | | | |
|-----------------------------------|------------------|-----|-----|-----|-----|-----|--|
| | Standard threads | | | | | | |
| 0.9 | I-I | B-B | J-J | B-Z | Z-Z | G-F | |
| 1.2 | I-I | B-B | J-J | B-Z | Z-Z | G-F | |
| 1.7 | I-I | B-B | J-J | B-Z | Z-Z | G-F | |
| 2.2 | I-I | B-B | J-J | B-Z | Z-Z | G-F | |
| 2.6 | I-I | B-B | J-J | B-Z | Z-Z | G-F | |
| 3.2 | I-I | B-B | J-J | B-Z | Z-Z | G-F | |
| 3.8 | I-I | B-B | J-J | B-Z | Z-Z | G-F | |
| 4.3 | I-I | B-B | J-J | B-Z | Z-Z | G-F | |
| 4.9 | I-I | B-B | J-J | B-Z | Z-Z | G-F | |
| 5.9 | I-I | B-B | J-J | B-Z | Z-Z | G-F | |
| 6.5 | I-I | B-B | J-J | B-Z | Z-Z | G-F | |
| 7.8 | I-I | B-B | J-J | B-Z | Z-Z | G-F | |
| 9.8 | I-I | B-B | J-J | B-Z | Z-Z | G-F | |

Table showing standard flange and thread combinations available in stock

| | | | | | | | | | | | |
|-------------------|--|--|--|--|--|--|--|--|--|--|---|
| | | | | | | | | | | | N |
| Internal drainage | | | | | | | | | | | |
| | | | | | | | | | | | O |
| External drainage | | | | | | | | | | | |

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

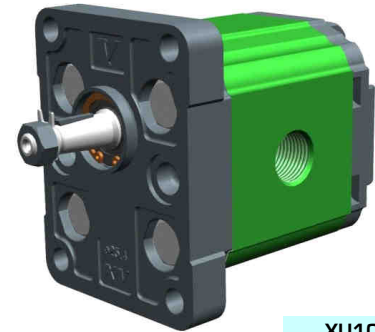
unidirectional motor - series XV

XV-1U

**STANDARD EUROPEAN MOTOR
ø25.4 FLANGE - TAPER SHAFT**

X 1 U 25 02 F B B A

| | | |
|--------------|-----|--|
| Series | X | series XV |
| Group | 1 | group 1 |
| Category | U | unidirectional motor |
| Displacement | 25 | 3.8 |
| Flange | 02 | Ø25.4 STANDARD EUROPEAN right 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 | A | standard |



XU105

Technical data table

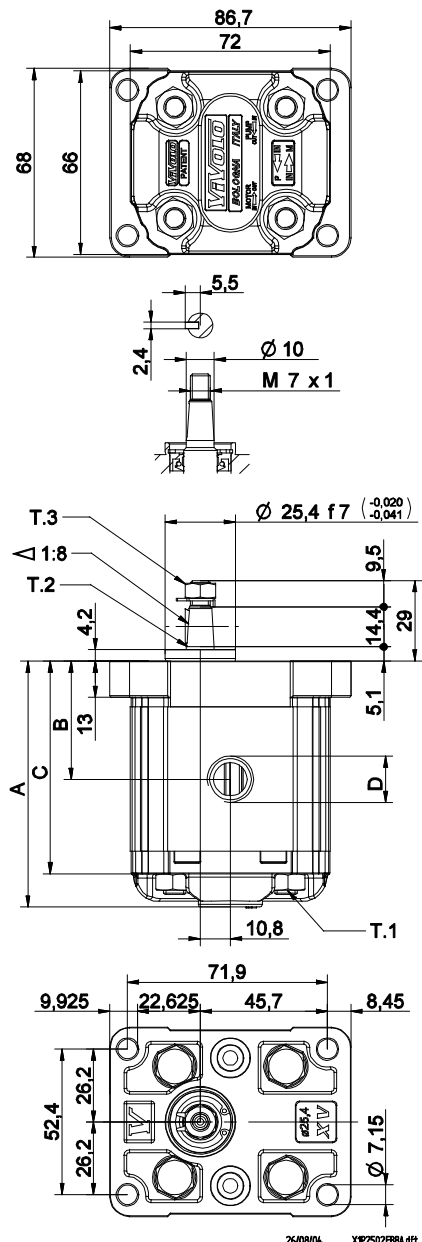
| TYPE | Displacement cm3/rev | Max. Pressure | | CODE | | | |
|-----------|-------------------------|---------------|--------|---------------|---------|----------------|---------|
| | | P1 bar | P3 bar | Left rotation | | Right rotation | |
| XV-1U/0.9 | 0,91 | 240 | 280 | X 1 U 16 01 | F B B A | X 1 U 16 02 | F B B A |
| XV-1U/1.2 | 1,17 | 250 | 290 | X 1 U 17 01 | F B B A | X 1 U 17 02 | F B B A |
| XV-1U/1.7 | 1,56 | 250 | 290 | X 1 U 18 01 | F B B A | X 1 U 18 02 | F B B A |
| XV-1U/2.2 | 2,08 | 250 | 290 | X 1 U 20 01 | F B B A | X 1 U 20 02 | F B B A |
| XV-1U/2.6 | 2,60 | 250 | 300 | X 1 U 21 01 | F B B A | X 1 U 21 02 | F B B A |
| XV-1U/3.2 | 3,12 | 250 | 300 | X 1 U 23 01 | F B B A | X 1 U 23 02 | F B B A |
| XV-1U/3.8 | 3,64 | 250 | 300 | X 1 U 25 01 | F B B A | X 1 U 25 02 | F B B A |
| XV-1U/4.3 | 4,16 | 250 | 300 | X 1 U 27 01 | F B B A | X 1 U 27 02 | F B B A |
| XV-1U/4.9 | 4,94 | 250 | 300 | X 1 U 29 01 | F B B A | X 1 U 29 02 | F B B A |
| XV-1U/5.9 | 5,85 | 250 | 300 | X 1 U 31 01 | F B B A | X 1 U 31 02 | F B B A |
| XV-1U/6.5 | 6,50 | 250 | 300 | X 1 U 32 01 | F B B A | X 1 U 32 02 | F B B A |
| XV-1U/7.8 | 7,54 | 220 | 260 | X 1 U 34 01 | F B B A | X 1 U 34 02 | F B B A |
| XV-1U/9.8 | 9,88 | 190 | 230 | X 1 U 36 01 | F B B A | X 1 U 36 02 | F B B A |

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

Table of variations

XV-1U

ø25.4 FLANGE

| ø25.4 FLANGE | | | | Shaft | | | | Cover | | | |
|---------------|----|----------------|----|--|---|---|---|---------------|--|----------------|---|
| Left rotation | | Right rotation | | | | | | Left rotation | | Right rotation | |
| | 01 | | 02 | CO001 - Tapered T.2 = 43 [Nm] | F | CF002 - Milled shank T.2 = 13.8 [Nm] | D | | | | A |
| | 03 | | 04 | SCF04 - Splined T.2 = 22.6 [Nm] m=1,6 Z=6 DIN 5482 - 12x9 | J | SCF02 - Splined T.2 = 42.8 [Nm] m=0,75 Z=15 | L | | | | B |
| | 05 | | 06 | SCF01 - Splined T.2 = 42.8 [Nm] m=0,75 Z=15 | Q | SCF03 - Splined T.2 = 42.8 [Nm] m=0,75 Z=15 | R | | | | C |
| | 07 | | 08 | | | | | | | | D |

| Displacement | |
|--------------|------|
| TYPE | CODE |
| XV-1U/0.9 | 16 |
| XV-1U/1.2 | 17 |
| XV-1U/1.7 | 18 |
| XV-1U/2.2 | 20 |
| XV-1U/2.6 | 21 |
| XV-1U/3.2 | 23 |
| XV-1U/3.8 | 25 |
| XV-1U/4.3 | 27 |
| XV-1U/4.9 | 29 |
| XV-1U/5.9 | 31 |
| XV-1U/6.5 | 32 |
| XV-1U/7.8 | 34 |
| XV-1U/9.8 | 36 |

| Displacement cm ³ /rev | Standard bodies | | | | | | |
|-----------------------------------|------------------|-----|-----|-----|-----|-----|--|
| | Standard threads | | | | | | |
| 0.9 | I-I | B-B | J-J | B-Z | Z-Z | G-F | |
| 1.2 | I-I | B-B | J-J | B-Z | Z-Z | G-F | |
| 1.7 | I-I | B-B | J-J | B-Z | Z-Z | G-F | |
| 2.2 | I-I | B-B | J-J | B-Z | Z-Z | G-F | |
| 2.6 | I-I | B-B | J-J | B-Z | Z-Z | G-F | |
| 3.2 | I-I | B-B | J-J | B-Z | Z-Z | G-F | |
| 3.8 | I-I | B-B | J-J | B-Z | Z-Z | G-F | |
| 4.3 | I-I | B-B | J-J | B-Z | Z-Z | G-F | |
| 4.9 | I-I | B-B | J-J | B-Z | Z-Z | G-F | |
| 5.9 | I-I | B-B | J-J | B-Z | Z-Z | G-F | |
| 6.5 | I-I | B-B | J-J | B-Z | Z-Z | G-F | |
| 7.8 | I-I | B-B | J-J | B-Z | Z-Z | G-F | |
| 9.8 | I-I | B-B | J-J | B-Z | Z-Z | G-F | |

Table showing standard flange and thread combinations available in stock

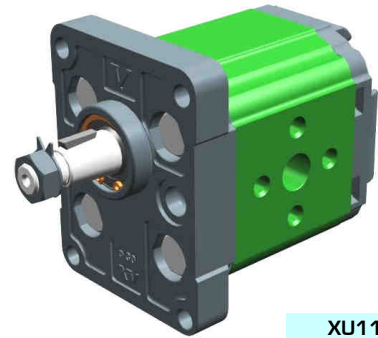
| | | | | | | | | | | | |
|-------------------|--|--|--|--|--|--|--|--|--|--|---|
| | | | | | | | | | | | N |
| Internal drainage | | | | | | | | | | | |
| | | | | | | | | | | | O |
| External drainage | | | | | | | | | | | |

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

unidirectional motor - series XV

XV-1U

STANDARD MOTOR
ø30 FLANGE - TAPER SHAFT



XU113

X 1 U 25 12 G I I A

| | | |
|--------------|-----|---|
| Series | X | series XV |
| Group | 1 | group 1 |
| Category | U | unidirectional motor |
| Displacement | 25 | 3.8 |
| Flange | 12 | Ø30 STANDARD right rotation |
| Shaft | G | CO002 - Tapered 1:8 - ø14 - M10x1 - key thk.3 |
| Body | IN | inlet - Ø30 Ø12 M6 |
| | OUT | outlet - Ø30 Ø12 M6 |
| Cover | A | standard |

Technical data table

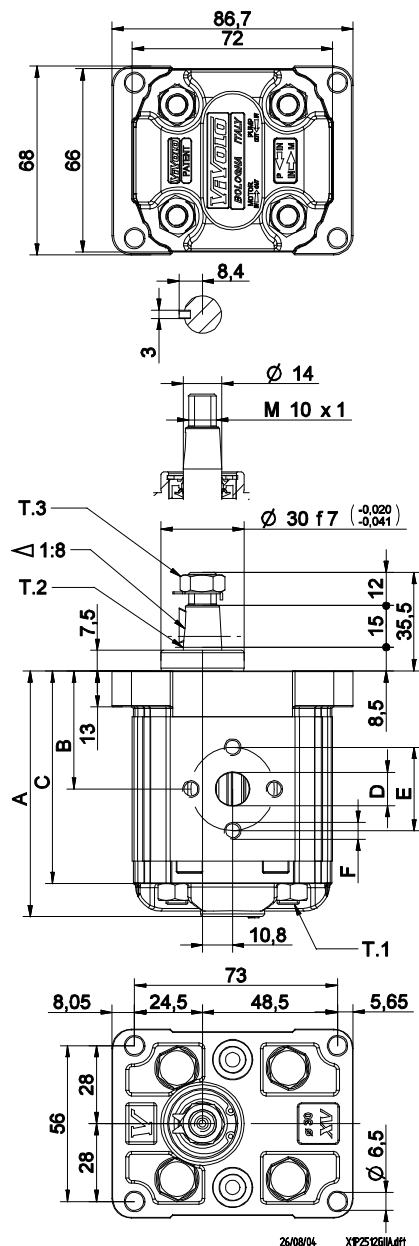
| TYPE | Displacement cm3/rev | Max. Pressure | | CODE | |
|-----------|-------------------------|---------------|--------|---------------------|---------------------|
| | | P1 bar | P3 bar | Left rotation | Right rotation |
| XV-1U/0.9 | 0,91 | 240 | 280 | X 1 U 16 11 G I I A | X 1 U 16 12 G I I A |
| XV-1U/1.2 | 1,17 | 250 | 290 | X 1 U 17 11 G I I A | X 1 U 17 12 G I I A |
| XV-1U/1.7 | 1,56 | 250 | 290 | X 1 U 18 11 G I I A | X 1 U 18 12 G I I A |
| XV-1U/2.2 | 2,08 | 250 | 290 | X 1 U 20 11 G I I A | X 1 U 20 12 G I I A |
| XV-1U/2.6 | 2,60 | 250 | 300 | X 1 U 21 11 G I I A | X 1 U 21 12 G I I A |
| XV-1U/3.2 | 3,12 | 250 | 300 | X 1 U 23 11 G I I A | X 1 U 23 12 G I I A |
| XV-1U/3.8 | 3,64 | 250 | 300 | X 1 U 25 11 G I I A | X 1 U 25 12 G I I A |
| XV-1U/4.3 | 4,16 | 250 | 300 | X 1 U 27 11 G I I A | X 1 U 27 12 G I I A |
| XV-1U/4.9 | 4,94 | 250 | 300 | X 1 U 29 11 G I I A | X 1 U 29 12 G I I A |
| XV-1U/5.9 | 5,85 | 250 | 300 | X 1 U 31 11 G I I A | X 1 U 31 12 G I I A |
| XV-1U/6.5 | 6,50 | 250 | 300 | X 1 U 32 11 G I I A | X 1 U 32 12 G I I A |
| XV-1U/7.8 | 7,54 | 220 | 260 | X 1 U 34 11 G I I A | X 1 U 34 12 G I I A |

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 | mm | mm | mm | |
| XV-1U/0.9 | 0,950 | 78,1 | 37,3 | 66,1 | ø12 | 30 | M6x1 | ø12 | 30 | M6x1 |
| XV-1U/1.2 | 0,970 | 79,0 | 37,8 | 67,0 | ø12 | 30 | M6x1 | ø12 | 30 | M6x1 |
| XV-1U/1.7 | 1,010 | 80,5 | 38,5 | 68,5 | ø12 | 30 | M6x1 | ø12 | 30 | M6x1 |
| XV-1U/2.2 | 1,030 | 82,5 | 39,5 | 70,5 | ø12 | 30 | M6x1 | ø12 | 30 | M6x1 |
| XV-1U/2.6 | 1,060 | 84,5 | 40,5 | 72,5 | ø12 | 30 | M6x1 | ø12 | 30 | M6x1 |
| XV-1U/3.2 | 1,090 | 86,5 | 41,5 | 74,5 | ø12 | 30 | M6x1 | ø12 | 30 | M6x1 |
| XV-1U/3.8 | 1,120 | 88,5 | 42,5 | 76,5 | ø12 | 30 | M6x1 | ø12 | 30 | M6x1 |
| XV-1U/4.3 | 1,170 | 90,5 | 43,5 | 78,5 | ø12 | 30 | M6x1 | ø12 | 30 | M6x1 |
| XV-1U/4.9 | 1,200 | 93,5 | 45,0 | 81,5 | ø12 | 30 | M6x1 | ø12 | 30 | M6x1 |
| XV-1U/5.9 | 1,260 | 97,0 | 46,8 | 85,0 | ø12 | 30 | M6x1 | ø12 | 30 | M6x1 |
| XV-1U/6.5 | 1,300 | 98,5 | 48,0 | 86,5 | ø12 | 30 | M6x1 | ø12 | 30 | M6x1 |
| XV-1U/7.8 | 1,360 | 103,5 | 50,0 | 91,5 | 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).

Table of variations

XV-1U

ø30 FLANGE

| ø30 FLANGE | | | | Shaft | | | | Cover | | | |
|---------------|----|----------------|----|--|---|--|---|---------------|--|----------------|--|
| Left rotation | | Right rotation | | Left rotation | | Right rotation | | Left rotation | | Right rotation | |
| | 11 | | 12 | CI001 - Parallel T.2 = 25.8 [Nm] | A | CO002 - Tapered T.2 = 119.8 [Nm] | G | | | A | |
| | 13 | | 14 | CI001+HK - Parallel T.2 = 25.8 [Nm] | P | CO002+HK - Tapered T.2 = 119.8 [Nm] | O | | | B | |
| | 15 | | 16 | | | | | | | C | |
| | 17 | | 18 | | | | | | | D | |

| Displacement | |
|--------------|------|
| TYPE | CODE |
| XV-1U/0.9 | 16 |
| XV-1U/1.2 | 17 |
| XV-1U/1.7 | 18 |
| XV-1U/2.2 | 20 |
| XV-1U/2.6 | 21 |
| XV-1U/3.2 | 23 |
| XV-1U/3.8 | 25 |
| XV-1U/4.3 | 27 |
| XV-1U/4.9 | 29 |
| XV-1U/5.9 | 31 |
| XV-1U/6.5 | 32 |
| XV-1U/7.8 | 34 |

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

Table showing standard flange and thread combinations available in stock

| | | |
|-------------------|--|---|
| | | N |
| Internal drainage | | |
| | | O |
| External drainage | | |

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

unidirectional motor - series XV

XV-1U

BH TYPE MOTOR
 ø32 BODY-SHAPED FLANGE - MILLED SHANK

X 1 U 25 42 D B B A

| | | |
|--------------|-----|----------------------------------|
| Series | X | series XV |
| Group | 1 | group 1 |
| Category | U | unidirectional motor |
| Displacement | 25 | 3.8 |
| Flange | 42 | ø32 BH right rotation |
| Shaft | D | CF002 - Milled shank ø10 - thk.5 |
| Body | IN | inlet - 3/8" GAS |
| | OUT | outlet - 3/8" GAS |
| Cover | A | standard |



XU119

Technical data table

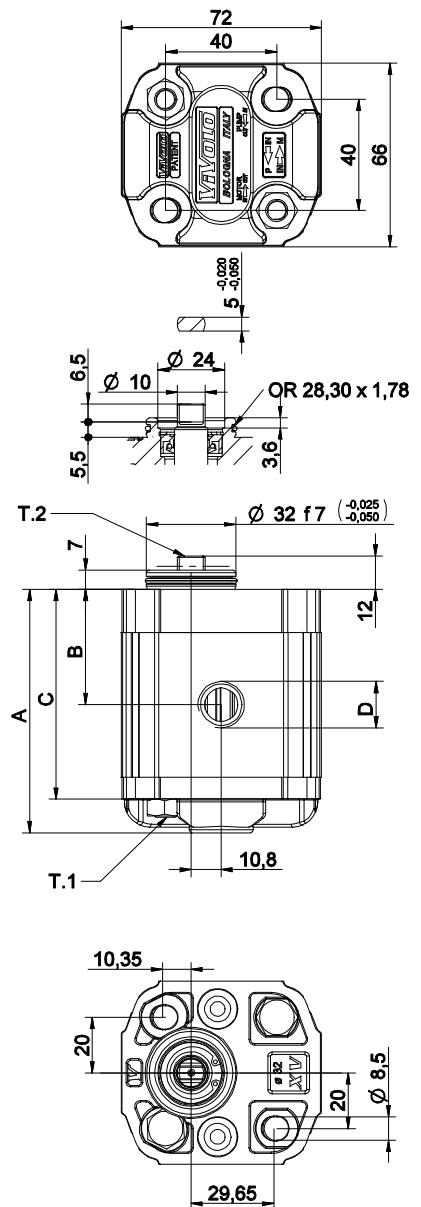
| TYPE | Displacement cm3/rev | Max. Pressure | | CODE | |
|-----------|-------------------------|---------------|--------|---------------------|---------------------|
| | | P1 bar | P3 bar | Left rotation | Right rotation |
| XV-1U/0.9 | 0,91 | 240 | 280 | X 1 U 16 41 D B B A | X 1 U 16 42 D B B A |
| XV-1U/1.2 | 1,17 | 250 | 290 | X 1 U 17 41 D B B A | X 1 U 17 42 D B B A |
| XV-1U/1.7 | 1,56 | 250 | 290 | X 1 U 18 41 D B B A | X 1 U 18 42 D B B A |
| XV-1U/2.2 | 2,08 | 250 | 290 | X 1 U 20 41 D B B A | X 1 U 20 42 D B B A |
| XV-1U/2.6 | 2,60 | 250 | 300 | X 1 U 21 41 D B B A | X 1 U 21 42 D B B A |
| XV-1U/3.2 | 3,12 | 250 | 300 | X 1 U 23 41 D B B A | X 1 U 23 42 D B B A |
| XV-1U/3.8 | 3,64 | 250 | 300 | X 1 U 25 41 D B B A | X 1 U 25 42 D B B A |
| XV-1U/4.3 | 4,16 | 250 | 300 | X 1 U 27 41 D B B A | X 1 U 27 42 D B B A |
| XV-1U/4.9 | 4,94 | 250 | 300 | X 1 U 29 41 D B B A | X 1 U 29 42 D B B A |
| XV-1U/5.9 | 5,85 | 250 | 300 | X 1 U 31 41 D B B A | X 1 U 31 42 D B B A |
| XV-1U/6.5 | 6,50 | 250 | 300 | X 1 U 32 41 D B B A | X 1 U 32 42 D B B A |
| XV-1U/7.8 | 7,54 | 220 | 260 | X 1 U 34 41 D B B A | X 1 U 34 42 D B B A |
| XV-1U/9.8 | 9,88 | 190 | 230 | X 1 U 36 41 D B B A | X 1 U 36 42 D B B A |

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



26/08/04 XP254208BAff

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).

Table of variations

XV-1U

ø32 "BH" Body-Shaped FLANGE

| ø32 "BH" Body-Shaped FLANGE | | | | Shaft | | | | Cover | | | |
|-----------------------------|----|----------------|----|---|---|--|---|---------------|--|----------------|---|
| Left rotation | | Right rotation | | | | | | Left rotation | | Right rotation | |
| | 41 | | 42 | CF002 - Milled shank T.2 = 13.8 [Nm] | D | CO001 - Tapered T.2 = 43 [Nm] | F | | | | A |
| | 43 | | 44 | SCF02 - Splined T.2 = 42.8 [Nm] m=0,75 Z=15 | L | SCF04 - Splined T.2 = 22.6 [Nm] m=1,6 Z=6 DIN 5482 - 12x6 | J | | | | B |
| | 45 | | 46 | SCF01 - Splined T.2 = 42.8 [Nm] m=0,75 Z=15 | Q | SCF03 - Splined T.2 = 42.8 [Nm] m=0,75 Z=15 | R | | | | C |
| | 47 | | 48 | | | | | | | | D |

| Displacement | |
|--------------|------|
| TYPE | CODE |
| XV-1U/0.9 | 16 |
| XV-1U/1.2 | 17 |
| XV-1U/1.7 | 18 |
| XV-1U/2.2 | 20 |
| XV-1U/2.6 | 21 |
| XV-1U/3.2 | 23 |
| XV-1U/3.8 | 25 |
| XV-1U/4.3 | 27 |
| XV-1U/4.9 | 29 |
| XV-1U/5.9 | 31 |
| XV-1U/6.5 | 32 |
| XV-1U/7.8 | 34 |
| XV-1U/9.8 | 36 |

| Displacement cm ³ /rev | Standard bodies | | | | | | |
|-----------------------------------|------------------|-----|-----|-----|-----|-----|--|
| | Standard threads | | | | | | |
| 0.9 | I-I | B-B | J-J | B-Z | Z-Z | G-F | |
| 1.2 | I-I | B-B | J-J | B-Z | Z-Z | G-F | |
| 1.7 | I-I | B-B | J-J | B-Z | Z-Z | G-F | |
| 2.2 | I-I | B-B | J-J | B-Z | Z-Z | G-F | |
| 2.6 | I-I | B-B | J-J | B-Z | Z-Z | G-F | |
| 3.2 | I-I | B-B | J-J | B-Z | Z-Z | G-F | |
| 3.8 | I-I | B-B | J-J | B-Z | Z-Z | G-F | |
| 4.3 | I-I | B-B | J-J | B-Z | Z-Z | G-F | |
| 4.9 | I-I | B-B | J-J | B-Z | Z-Z | G-F | |
| 5.9 | I-I | B-B | J-J | B-Z | Z-Z | G-F | |
| 6.5 | I-I | B-B | J-J | B-Z | Z-Z | G-F | |
| 7.8 | I-I | B-B | J-J | B-Z | Z-Z | G-F | |
| 9.8 | I-I | B-B | J-J | B-Z | Z-Z | G-F | |

Table showing standard flange and thread combinations available in stock

| | | | | |
|-------------------|--|--|--|---|
| | | | | N |
| Internal drainage | | | | |
| | | | | O |
| External drainage | | | | |

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

unidirectional motor - series XV

XV-1U

HY TYPE MOTOR
 ø32 BODY-SHAPED FLANGE - MILLED SHANK

X 1 U 25 52 D B B A

| | | |
|--------------|-----|----------------------------------|
| Series | X | series XV |
| Group | 1 | group 1 |
| Category | U | unidirectional motor |
| Displacement | 25 | 3.8 |
| Flange | 52 | Ø32 HY right rotation |
| Shaft | D | CF002 - Milled shank ø10 - thk.5 |
| Body | IN | inlet - 3/8" GAS |
| | OUT | outlet - 3/8" GAS |
| Cover | A | standard |



XU140

Technical data table

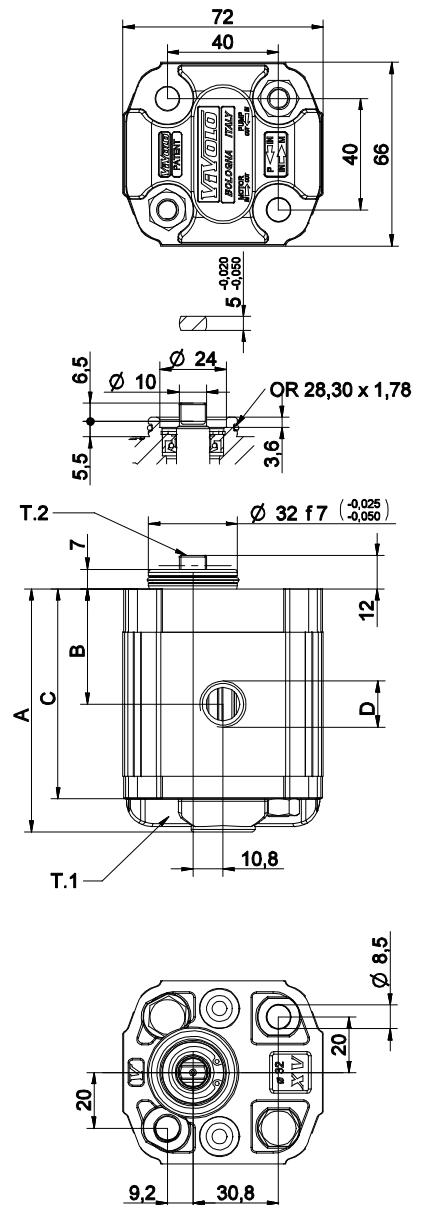
| TYPE | Displacement cm3/rev | Max. Pressure | | CODE | |
|-----------|-------------------------|---------------|--------|---------------------|---------------------|
| | | P1 bar | P3 bar | Left rotation | Right rotation |
| XV-1U/0.9 | 0,91 | 240 | 280 | X 1 U 16 51 D B B A | X 1 U 16 52 D B B A |
| XV-1U/1.2 | 1,17 | 250 | 290 | X 1 U 17 51 D B B A | X 1 U 17 52 D B B A |
| XV-1U/1.7 | 1,56 | 250 | 290 | X 1 U 18 51 D B B A | X 1 U 18 52 D B B A |
| XV-1U/2.2 | 2,08 | 250 | 290 | X 1 U 20 51 D B B A | X 1 U 20 52 D B B A |
| XV-1U/2.6 | 2,60 | 250 | 300 | X 1 U 21 51 D B B A | X 1 U 21 52 D B B A |
| XV-1U/3.2 | 3,12 | 250 | 300 | X 1 U 23 51 D B B A | X 1 U 23 52 D B B A |
| XV-1U/3.8 | 3,64 | 250 | 300 | X 1 U 25 51 D B B A | X 1 U 25 52 D B B A |
| XV-1U/4.3 | 4,16 | 250 | 300 | X 1 U 27 51 D B B A | X 1 U 27 52 D B B A |
| XV-1U/4.9 | 4,94 | 250 | 300 | X 1 U 29 51 D B B A | X 1 U 29 52 D B B A |
| XV-1U/5.9 | 5,85 | 250 | 300 | X 1 U 31 51 D B B A | X 1 U 31 52 D B B A |
| XV-1U/6.5 | 6,50 | 250 | 300 | X 1 U 32 51 D B B A | X 1 U 32 52 D B B A |
| XV-1U/7.8 | 7,54 | 220 | 260 | X 1 U 34 51 D B B A | X 1 U 34 52 D B B A |
| XV-1U/9.8 | 9,88 | 190 | 230 | X 1 U 36 51 D B B A | X 1 U 36 52 D B B A |

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



26/08/04 XPZ52088A.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).

Table of variations

XV-1U

ø32 "HY" Body-Shaped FLANGE

| ø32 "HY" Body-Shaped FLANGE | | | | Shaft | | | | Cover | | | |
|-----------------------------|----|----------------|----|---|---|--|---|---------------|--|----------------|---|
| Left rotation | | Right rotation | | | | | | Left rotation | | Right rotation | |
| | 51 | | 52 | CF002 - Milled shank T.2 = 13.8 [Nm] | D | CO001 - Tapered T.2 = 43 [Nm] | F | | | | A |
| | 53 | | 54 | SCF02 - Splined T.2 = 42.8 [Nm] m=0,75 Z=15 | L | SCF04 - Splined T.2 = 22.6 [Nm] m=1,6 Z=6 DIN 5482 - 12x6 | J | | | | B |
| | 55 | | 56 | SCF01 - Splined T.2 = 42.8 [Nm] m=0,75 Z=15 | Q | SCF03 - Splined T.2 = 42.8 [Nm] m=0,75 Z=15 | R | | | | C |
| | 57 | | 58 | | | | | | | | D |

| Displacement | |
|--------------|------|
| TYPE | CODE |
| XV-1U/0.9 | 16 |
| XV-1U/1.2 | 17 |
| XV-1U/1.7 | 18 |
| XV-1U/2.2 | 20 |
| XV-1U/2.6 | 21 |
| XV-1U/3.2 | 23 |
| XV-1U/3.8 | 25 |
| XV-1U/4.3 | 27 |
| XV-1U/4.9 | 29 |
| XV-1U/5.9 | 31 |
| XV-1U/6.5 | 32 |
| XV-1U/7.8 | 34 |
| XV-1U/9.8 | 36 |

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

Table showing standard flange and thread combinations available in stock

| | | | | | | | | | | | |
|-------------------|--|--|--|--|--|--|--|--|--|--|---|
| | | | | | | | | | | | N |
| Internal drainage | | | | | | | | | | | |
| | | | | | | | | | | | O |
| External drainage | | | | | | | | | | | |

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

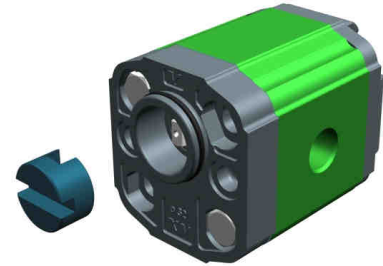
unidirectional motor - series XV

XV-1U

STANDARD GERMAN "BH" TYPE MOTOR
 ø32 BODY-SHAPED FLANGE - MILLED SHANK

X 1 U 25 32 C B B A

| | | |
|--------------|-----|---|
| Series | X | series XV |
| Group | 1 | group 1 |
| Category | U | unidirectional motor |
| Displacement | 25 | 3.8 |
| Flange | 32 | Ø32 BH GERMAN STANDARDIZED right rotation |
| Shaft | C | CF001 - Milled shank ø10 - thk.5 ("BH" Standard German) |
| Body | IN | inlet - 3/8" GAS |
| | OUT | outlet - 3/8" GAS |
| Cover | A | standard |



XU161

Technical data table

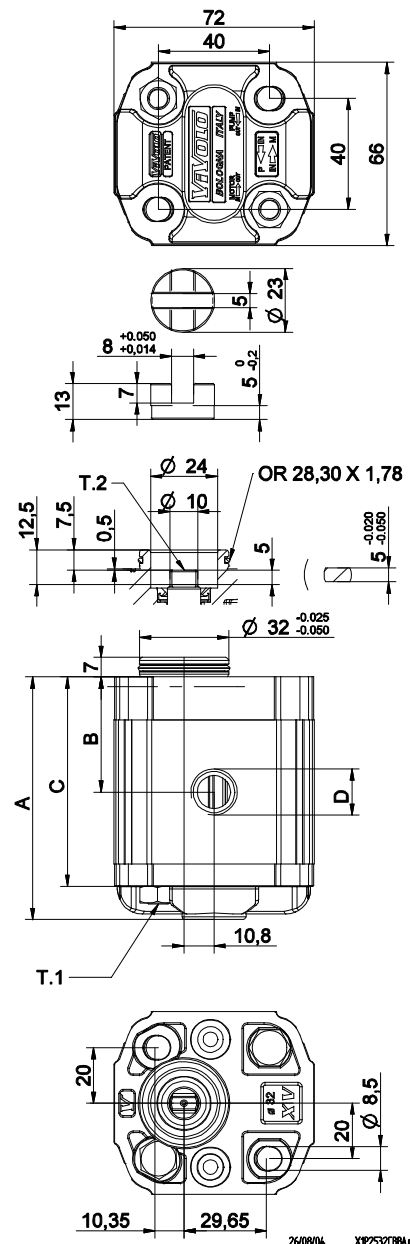
| TYPE | Displacement cm3/rev | Max. Pressure | | CODE | |
|-----------|-------------------------|---------------|--------|---------------------|---------------------|
| | | P1 bar | P3 bar | Left rotation | Right rotation |
| XV-1U/0.9 | 0,91 | 240 | 280 | X 1 U 16 31 C B B A | X 1 U 16 32 C B B A |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

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-1U/0.9 | 0,950 | 77,1 | 36,3 | 65,1 | 3/8" BSPP | 3/8" BSPP |
| XV-1U/1.2 | 0,970 | 78,0 | 36,8 | 66,0 | 3/8" BSPP | 3/8" BSPP |
| XV-1U/1.7 | 1,010 | 79,5 | 37,5 | 67,5 | 3/8" BSPP | 3/8" BSPP |
| XV-1U/2.2 | 1,030 | 81,5 | 38,5 | 69,5 | 3/8" BSPP | 3/8" BSPP |
| XV-1U/2.6 | 1,060 | 83,5 | 39,5 | 71,5 | 3/8" BSPP | 3/8" BSPP |
| XV-1U/3.2 | 1,090 | 85,5 | 40,5 | 73,5 | 3/8" BSPP | 3/8" BSPP |
| XV-1U/3.8 | 1,120 | 87,5 | 41,5 | 75,5 | 3/8" BSPP | 3/8" BSPP |
| XV-1U/4.3 | 1,170 | 89,5 | 42,5 | 77,5 | 3/8" BSPP | 3/8" BSPP |
| XV-1U/4.9 | 1,200 | 92,5 | 44,0 | 80,5 | 3/8" BSPP | 3/8" BSPP |
| XV-1U/5.9 | 1,260 | 96,0 | 45,8 | 84,0 | 3/8" BSPP | 3/8" BSPP |
| XV-1U/6.5 | 1,300 | 97,5 | 47,0 | 85,5 | 3/8" BSPP | 3/8" BSPP |
| XV-1U/7.8 | 1,360 | 102,5 | 49,0 | 90,5 | 3/8" BSPP | 3/8" BSPP |
| XV-1U/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).

Table of variations

XV-1U

Standard German $\varnothing 32$ "BH" FLANGE

| Standard German $\varnothing 32$ "BH" FLANGE | | | | Shaft | | Cover | | | |
|--|-----------|----------------|-----------|---|----------|---|----------------|--|----------|
| Left rotation | | Right rotation | | | | Left rotation | Right rotation | | |
| | 31 | | 32 | CF001 - Milled shank T.2 = 13.8 [Nm] | C | SCF01 - Splined T.2 = 42.8 [Nm] m=0,75 Z=15 | | | A |
| | 33 | | 34 | SCF03 - Splined T.2 = 42.8 [Nm] m=0,75 Z=15 | R | | | | B |
| | 35 | | 36 | | | | | | C |
| | 37 | | 38 | | | | | | D |

| Displacement | |
|--------------|-----------|
| TYPE | CODE |
| XV-1U/0.9 | 16 |
| XV-1U/1.2 | 17 |
| XV-1U/1.7 | 18 |
| XV-1U/2.2 | 20 |
| XV-1U/2.6 | 21 |
| XV-1U/3.2 | 23 |
| XV-1U/3.8 | 25 |
| XV-1U/4.3 | 27 |
| XV-1U/4.9 | 29 |
| XV-1U/5.9 | 31 |
| XV-1U/6.5 | 32 |
| XV-1U/7.8 | 34 |
| XV-1U/9.8 | 36 |

| Standard bodies | | | | | | | |
|-----------------------------------|------------------|-------|-------|-------|-------|-------|-------|
| Displacement cm ³ /rev | Standard threads | | | | | | |
| | 0.9 | I - I | B - B | J - J | B - Z | Z - Z | G - F |
| 1.2 | I - I | B - B | J - J | B - Z | Z - Z | G - F | |
| 1.7 | I - I | B - B | J - J | B - Z | Z - Z | G - F | |
| 2.2 | I - I | B - B | J - J | B - Z | Z - Z | G - F | |
| 2.6 | I - I | B - B | J - J | B - Z | Z - Z | G - F | |
| 3.2 | I - I | B - B | J - J | B - Z | Z - Z | G - F | |
| 3.8 | I - I | B - B | J - J | B - Z | Z - Z | G - F | |
| 4.3 | I - I | B - B | J - J | B - Z | Z - Z | G - F | |
| 4.9 | I - I | B - B | J - J | B - Z | Z - Z | G - F | |
| 5.9 | I - I | B - B | J - J | B - Z | Z - Z | G - F | |
| 6.5 | I - I | B - B | J - J | B - Z | Z - Z | G - F | |
| 7.8 | I - I | B - B | J - J | B - Z | Z - Z | G - F | |
| 9.8 | I - I | B - B | J - J | B - Z | Z - Z | G - F | |

Table showing standard flange and thread combinations available in stock

| | | |
|-------------------|--|----------|
| | | N |
| Internal drainage | | |
| | | O |
| External drainage | | |

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

unidirectional motor - series XV

XV-1U

SAE AA TYPE MOTOR
 ø50.8 FLANGE - PARALLEL SHAFT



XU168

X 1 U 25 62 B B B A

| | | |
|--------------|-----|--|
| Series | X | series XV |
| Group | 1 | group 1 |
| Category | U | unidirectional motor |
| Displacement | 25 | 3.8 |
| Flange | 62 | ø50.8 SAE AA right 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 | A | standard |

Technical data table

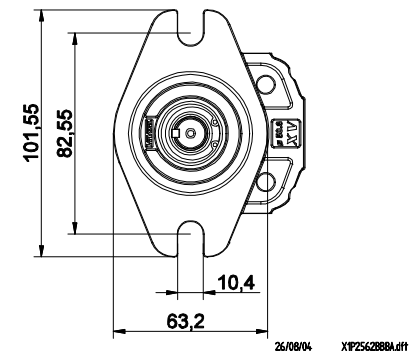
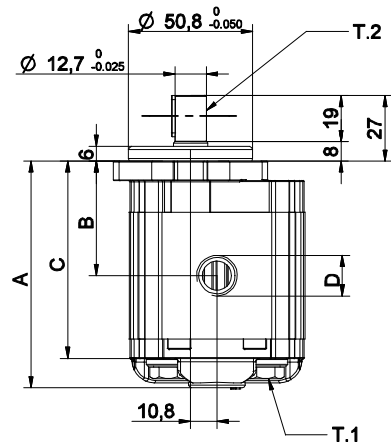
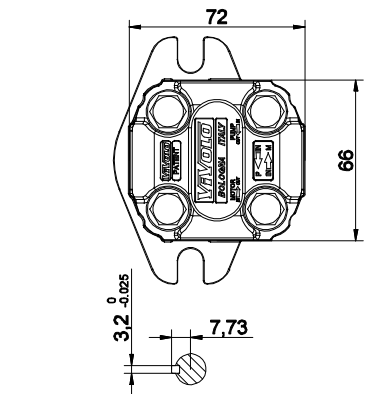
| TYPE | Displacement cm3/rev | Max. Pressure | | CODE | |
|-----------|-------------------------|---------------|--------|---------------------|---------------------|
| | | P1 bar | P3 bar | Left rotation | Right rotation |
| XV-1U/0.9 | 0,91 | 240 | 280 | X 1 U 16 61 B B B A | X 1 U 16 62 B B B A |
| XV-1U/1.2 | 1,17 | 250 | 290 | X 1 U 17 61 B B B A | X 1 U 17 62 B B B A |
| XV-1U/1.7 | 1,56 | 250 | 290 | X 1 U 18 61 B B B A | X 1 U 18 62 B B B A |
| XV-1U/2.2 | 2,08 | 250 | 290 | X 1 U 20 61 B B B A | X 1 U 20 62 B B B A |
| XV-1U/2.6 | 2,60 | 250 | 300 | X 1 U 21 61 B B B A | X 1 U 21 62 B B B A |
| XV-1U/3.2 | 3,12 | 250 | 300 | X 1 U 23 61 B B B A | X 1 U 23 62 B B B A |
| XV-1U/3.8 | 3,64 | 250 | 300 | X 1 U 25 61 B B B A | X 1 U 25 62 B B B A |
| XV-1U/4.3 | 4,16 | 250 | 300 | X 1 U 27 61 B B B A | X 1 U 27 62 B B B A |
| XV-1U/4.9 | 4,94 | 250 | 300 | X 1 U 29 61 B B B A | X 1 U 29 62 B B B A |
| XV-1U/5.9 | 5,85 | 250 | 300 | X 1 U 31 61 B B B A | X 1 U 31 62 B B B A |
| XV-1U/6.5 | 6,50 | 250 | 300 | X 1 U 32 61 B B B A | X 1 U 32 62 B B B A |
| XV-1U/7.8 | 7,54 | 220 | 260 | X 1 U 34 61 B B B A | X 1 U 34 62 B B B A |
| XV-1U/9.8 | 9,88 | 190 | 230 | X 1 U 36 61 B B B A | X 1 U 36 62 B B B A |

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-1U/0.9 | 1,000 | 82,6 | 41,8 | 70,6 | 3/8" BSPP | 3/8" BSPP |
| XV-1U/1.2 | 1,020 | 83,5 | 42,3 | 71,5 | 3/8" BSPP | 3/8" BSPP |
| XV-1U/1.7 | 1,060 | 85,0 | 43,0 | 73,0 | 3/8" BSPP | 3/8" BSPP |
| XV-1U/2.2 | 1,080 | 87,0 | 44,0 | 75,0 | 3/8" BSPP | 3/8" BSPP |
| XV-1U/2.6 | 1,110 | 89,0 | 45,0 | 77,0 | 3/8" BSPP | 3/8" BSPP |
| XV-1U/3.2 | 1,140 | 91,0 | 46,0 | 79,0 | 3/8" BSPP | 3/8" BSPP |
| XV-1U/3.8 | 1,170 | 93,0 | 47,0 | 81,0 | 3/8" BSPP | 3/8" BSPP |
| XV-1U/4.3 | 1,220 | 95,0 | 48,0 | 83,0 | 3/8" BSPP | 3/8" BSPP |
| XV-1U/4.9 | 1,250 | 98,0 | 49,5 | 86,0 | 3/8" BSPP | 3/8" BSPP |
| XV-1U/5.9 | 1,310 | 101,5 | 51,3 | 89,5 | 3/8" BSPP | 3/8" BSPP |
| XV-1U/6.5 | 1,350 | 105,0 | 52,5 | 93,0 | 3/8" BSPP | 3/8" BSPP |
| XV-1U/7.8 | 1,410 | 108,0 | 54,5 | 96,0 | 3/8" BSPP | 3/8" BSPP |
| XV-1U/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).

Table of variations

XV-1U

ø50.8 FLANGE "SAE AA"

| ø50.8 FLANGE "SAE AA" | | Shaft | | Cover | |
|-----------------------|----------------|--|---|-------------------|----------------|
| Left rotation | Right rotation | | | Left rotation | Right rotation |
| | | CI001 - Parallel T.2 = 25.8 [Nm] | CI002 - Parallel T.2 = 32.8 [Nm] SAE 3.2 | | |
| 61 | 62 | A | B | A | A |
| | | CF003 - Milled shank T.2 = 25.9 [Nm] SAE | CO002 - Tapered T.2 = 119.8 [Nm] | | |
| | | E | G | B | B |
| | | SAE | SCF05 - Splined T.2 = 32.2 [Nm] SAE J 498 9T 20/40 DP | | |
| | | I | K | C | C |
| | | CO002+HK - Tapered T.2 = 119.8 [Nm] HK 14-12 | CI001+HK - Parallel T.2 = 25.8 [Nm] HK 14-12 | | |
| | | O | P | D | D |
| | | | | | |
| | | | | Internal drainage | |
| | | | | | |
| | | | | External drainage | |

| Displacement | |
|--------------|------|
| TYPE | CODE |
| XV-1U/0.9 | 16 |
| XV-1U/1.2 | 17 |
| XV-1U/1.7 | 18 |
| XV-1U/2.2 | 20 |
| XV-1U/2.6 | 21 |
| XV-1U/3.2 | 23 |
| XV-1U/3.8 | 25 |
| XV-1U/4.3 | 27 |
| XV-1U/4.9 | 29 |
| XV-1U/5.9 | 31 |
| XV-1U/6.5 | 32 |
| XV-1U/7.8 | 34 |
| XV-1U/9.8 | 36 |

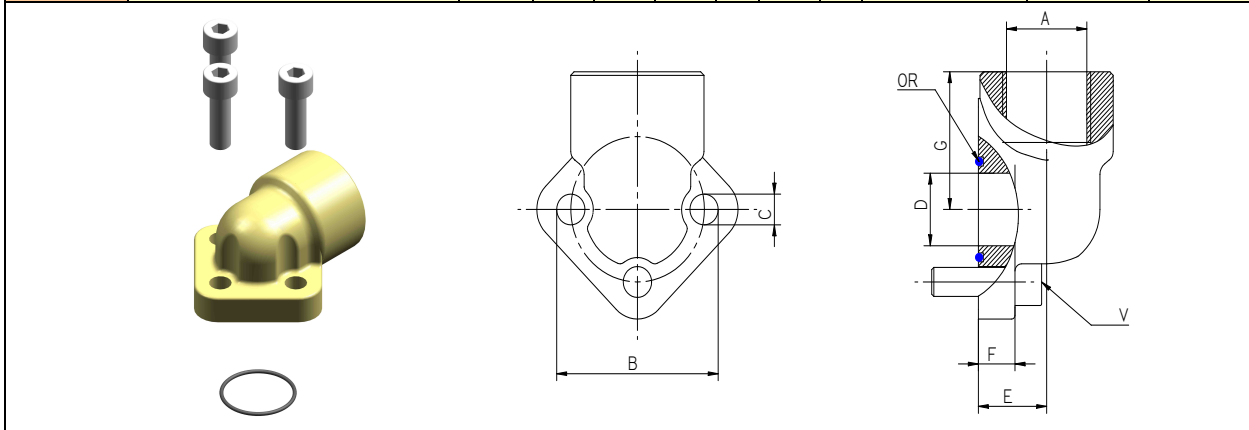
| Standard bodies | | | | | | | |
|-----------------------------------|------------------|-------|-------|-------|-------|-------|-------|
| Displacement cm ³ /rev | Standard threads | | | | | | |
| | 0.9 | I - I | B - B | J - J | B - Z | Z - Z | G - F |
| 1.2 | I - I | B - B | J - J | B - Z | Z - Z | G - F | |
| 1.7 | I - I | B - B | J - J | B - Z | Z - Z | G - F | |
| 2.2 | I - I | B - B | J - J | B - Z | Z - Z | G - F | |
| 2.6 | I - I | B - B | J - J | B - Z | Z - Z | G - F | |
| 3.2 | I - I | B - B | J - J | B - Z | Z - Z | G - F | |
| 3.8 | I - I | B - B | J - J | B - Z | Z - Z | G - F | |
| 4.3 | I - I | B - B | J - J | B - Z | Z - Z | G - F | |
| 4.9 | I - I | B - B | J - J | B - Z | Z - Z | G - F | |
| 5.9 | I - I | B - B | J - J | B - Z | Z - Z | G - F | |
| 6.5 | I - I | B - B | J - J | B - Z | Z - Z | G - F | |
| 7.8 | I - I | B - B | J - J | B - Z | Z - Z | G - F | |
| 9.8 | I - I | B - B | J - J | B - Z | Z - Z | G - F | |

Table showing standard flange and thread combinations available in stock

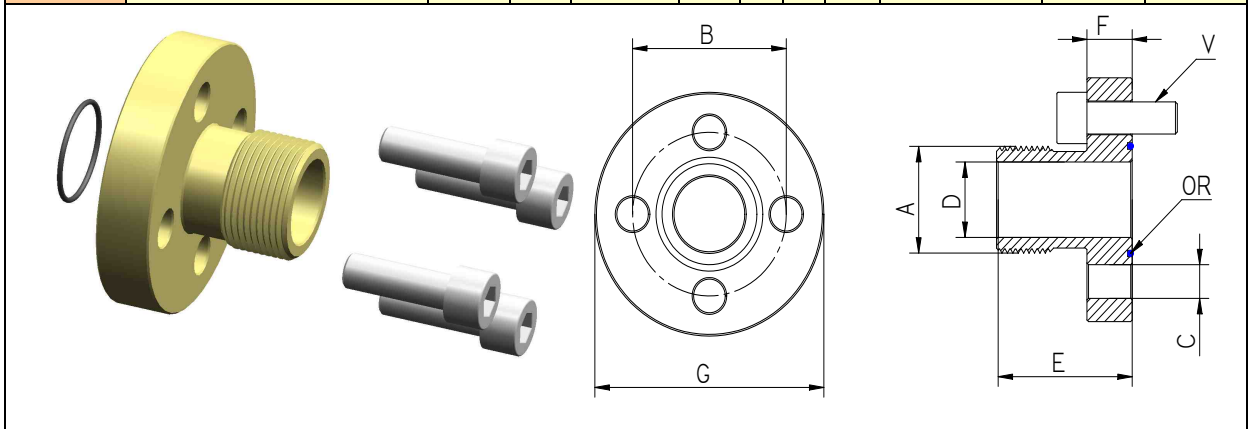
| Body (threads/flanges) | | | | | | | | | | | | | |
|------------------------|---|--|---|--|---|-------------|---|--|---|--|---|--|---|
| | A | | B | | C | | D | | E | | F | | G |
| | H | | I | | J | Closed Body | Z | | | | | | |

90° STEEL ELBOWS

| Code | Type | A | B | C | D | E | F | G | OR | V | weigth |
|---------|------------------------|-------|------|------|------|----|------|----|-------------|--------|--------|
| | | | | | | | | | O ring | Screw | |
| 8KRG001 | RG 26/12-3/8"BSP | 3/8" | 26 | 5,5 | 12 | 18 | 9,5 | 27 | ø14,00x1,78 | M5x18 | 0,13 |
| 8KRG002 | RG 26/12-1/2"BSP | 1/2" | 26 | 5,5 | 12 | 18 | 9,5 | 27 | ø14,00x1,78 | M5x18 | 0,12 |
| 8KRG003 | RG 30/13,5 -3/8"BSP | 3/8" | 30 | 6,5 | 13,5 | 18 | 9,5 | 27 | ø15,88x2,62 | M6x20 | 0,17 |
| 8KRG004 | RG 30/13,5 -1/2"BSP | 1/2" | 30 | 6,5 | 13,5 | 18 | 9,5 | 27 | ø15,88x2,62 | M6x20 | 0,16 |
| 8KRG005 | RG 40/20-1/2"BSP | 1/2" | 40 | 8,5 | 20 | 21 | 10,5 | 38 | ø23,81x2,62 | M8x25 | 0,36 |
| 8KRG006 | RG 40/20-3/4"BSP | 3/4" | 40 | 8,5 | 20 | 21 | 10,5 | 38 | ø23,81x2,62 | M8x25 | 0,32 |
| 8KRG007 | RG 40/23-3/4"BSP | 3/4" | 40 | 8,5 | 23,5 | 21 | 10,5 | 38 | ø25,12x1,78 | M8x25 | 0,29 |
| 8KRG008 | RG 51/27-1"BSP | 1" | 51 | 10,5 | 27 | 27 | 13,5 | 47 | ø31,42x2,62 | M10x30 | 0,7 |
| 8KRG009 | RG 51/27-3/4" BSP | 3/4" | 51 | 10,5 | 27 | 27 | 13,5 | 47 | ø31,42x2,62 | M10x30 | 0,7 |
| 8KRG011 | RG 56/34-3/4" BSP | 3/4" | 56 | 10,5 | 34 | 27 | 13,5 | 47 | ø37,77x2,62 | M10x30 | 0,72 |
| 8KRG012 | RG 62/36-1"1/4 BSP | 1"1/4 | 62 | 10,5 | 36 | 36 | 19 | 56 | ø41,28x3,53 | M10x30 | 0,94 |
| 8KRG015 | RG 62/36-1"1/4 BSP M12 | 1"1/4 | 62 | 12,5 | 36 | 36 | 19 | 56 | ø41,28x3,53 | M12x35 | 0,94 |
| 8KRG013 | RG 72,5/45-1"1/2 BSP | 1"1/2 | 72,5 | 12,5 | 45 | 38 | 16 | 58 | ø49,20x3,53 | M12x35 | 1,23 |
| 8KRG014 | RG 92/65-2" BSP | 2 | 92 | 12,5 | 65 | 50 | 21 | 75 | ø69,85x3,53 | M12x40 | 1,65 |

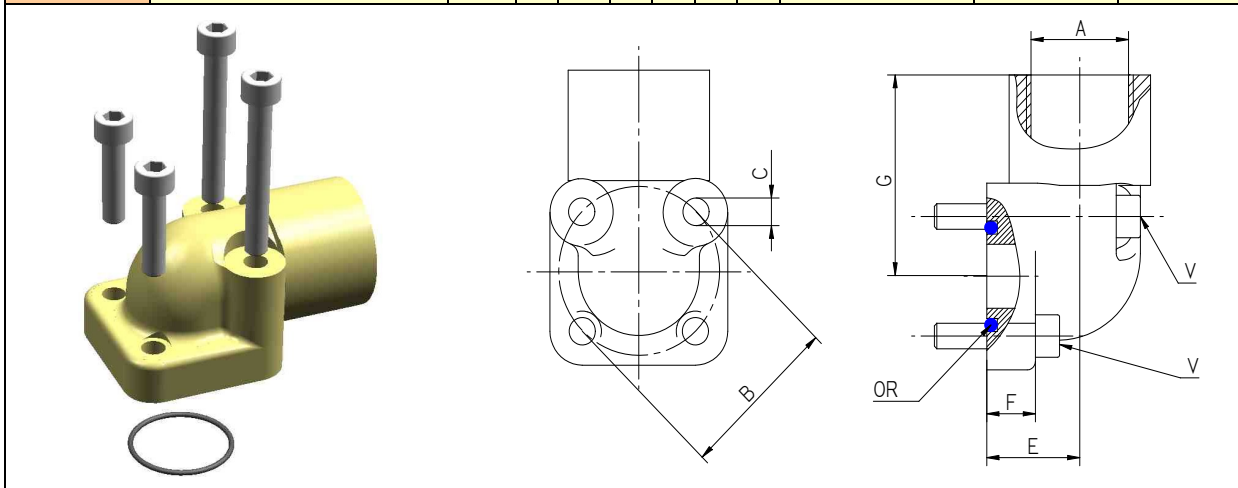

STRAIGHT STEEL UNIONS

| Code | Type | A | B | C | D | E | F | G | OR | V | Weigth |
|---------|----------------------|--------|------|------|------|----|----|-----|-------------|--------|--------|
| | | | | | | | | | O ring | Screw | |
| 8KRD001 | RD 26/12-3/8"BSP | 3/8" | 26 | 5,5 | 12 | 32 | 10 | 39 | ø14,00x1,78 | M5x18 | 0,11 |
| 8KRD002 | RD 30/13,5-1/2"BSP | 1/2" | 30 | 6,5 | 13,5 | 40 | 10 | 44 | ø15,88x2,62 | M6x20 | 0,14 |
| 8KRD005 | RD 40/20-3/4"BSP | 3/4" | 40 | 8,5 | 20 | 42 | 12 | 51 | ø23,81x2,62 | M8x25 | 0,3 |
| 8KRD006 | RD 40/23,5-3/4"BSP | 3/4" | 40 | 8,5 | 23,5 | 42 | 12 | 51 | ø25,12x1,78 | M8x25 | 0,29 |
| 8KRD007 | RD 51/27-1"BSP | 1" | 51 | 10,5 | 27 | 43 | 12 | 68 | ø31,42x2,62 | M10x25 | 0,46 |
| 8KRD008 | RD 56/34-1"1/4 BSP | 1" 1/4 | 56 | 10,5 | 34 | 53 | 12 | 73 | ø37,77x2,62 | M10x25 | 0,68 |
| 8KRD009 | RD 62/36-1"1/4 BSP | 1" 1/4 | 62 | 10,5 | 36 | 47 | 13 | 78 | ø41,28x3,53 | M10x25 | 0,9 |
| 8KRD010 | RD 72,5/45-1"1/2 BSP | 1" 1/2 | 72,5 | 12,5 | 45 | 49 | 14 | 89 | ø49,20x3,53 | M12x30 | 1,05 |
| 8KRD011 | RD 92/65-2"1/2 BSP | 2" 1/2 | 92 | 12,5 | 65 | 60 | 18 | 114 | ø69,85x3,53 | M12x40 | 1,15 |



SQUARED STEEL ELBOWS

| Code | Type | A | B | C | D | E | F | G | OR | V | Weight |
|---------|-------------------|------|----|-----|----|----|----|----|-------------|------------------------|--------|
| | | | | | | | | | O ring | Screw | |
| 8KRQ001 | RQ 30/12-3/8"BSP | 3/8" | 30 | 6,5 | 12 | 19 | 11 | 41 | ø15,88x2,61 | Nº2 M6x20 Nº2 M6x35 | 0,29 |
| 8KRQ002 | RQ 30/12-1/2"BSP | 1/2" | 30 | 6,5 | 12 | 19 | 11 | 41 | ø15,88x2,62 | Nº2 M6x20 Nº2 M6x35 | 0,29 |
| 8KRQ003 | RQ 35/15 -3/8"BSP | 3/8" | 35 | 6,5 | 15 | 18 | 11 | 40 | ø18,72x2,62 | Nº2 M6x20 Nº2 M6x35 | 0,34 |
| 8KRQ004 | RQ 35/15 -1/2"BSP | 1/2" | 35 | 6,5 | 15 | 18 | 11 | 40 | ø18,72x2,62 | Nº2 M6x20 Nº2 M6x35 | 0,34 |
| 8KRQ005 | RQ 40/20-1/2"BSP | 1/2" | 40 | 6,5 | 20 | 24 | 10 | 45 | ø22,22x2,62 | Nº2 M6x25 Nº2 M6x45 | 0,4 |
| 8KRQ006 | RQ 40/20-3/4"BSP | 3/4" | 40 | 6,5 | 20 | 24 | 10 | 45 | ø22,22x2,62 | Nº2 M6x25 Nº2 M6x45 | 0,4 |
| 8KRQ007 | RQ 55/25-3/4"BSP | 3/4" | 55 | 8,5 | 25 | 35 | 13 | 54 | ø29,75x3,53 | Nº2 M8x25 Nº2 M8x60 | 0,45 |
| 8KRQ008 | RQ 55/25-1" BSP | 1" | 55 | 8,5 | 25 | 35 | 13 | 54 | ø29,75x3,53 | Nº2 M8x25 Nº2 M8x60 | 0,45 |


STRAIGHT STEEL UNIONS

| Code | Type | A | B | C | D | E | F | G | OR | V | Weight |
|---------|-----------------------|------|----|-----|----|----|----|----|-------------|-------|--------|
| | | | | | | | | | O ring | Screw | |
| 8KRD003 | RD 35/15 (BH)-1/2"BSP | 1/2" | 35 | 6,5 | 14 | 35 | 10 | 40 | ø18,72x2,62 | M6x20 | 0,15 |
| 8KRD004 | RD 40/20 (BH)-3/4"BSP | 3/4" | 40 | 6,5 | 17 | 35 | 10 | 40 | ø22,22x2,62 | M6x20 | 0,17 |

