

# unidirectional motor - series XV

**BH TYPE MOTOR**  
**ø32 BODY-SHAPED FLANGE - MILLED SHANK**

**XV-1U**

|          |          |          |           |           |          |          |          |          |
|----------|----------|----------|-----------|-----------|----------|----------|----------|----------|
| <b>X</b> | <b>1</b> | <b>U</b> | <b>25</b> | <b>42</b> | <b>D</b> | <b>B</b> | <b>B</b> | <b>A</b> |
|----------|----------|----------|-----------|-----------|----------|----------|----------|----------|

|              |     |                                  |
|--------------|-----|----------------------------------|
| 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  | B inlet - 3/8" GAS               |
|              | OUT | B outlet - 3/8" GAS              |
| Cover        | A   | standard                         |



**XU119**

**Technical data table**

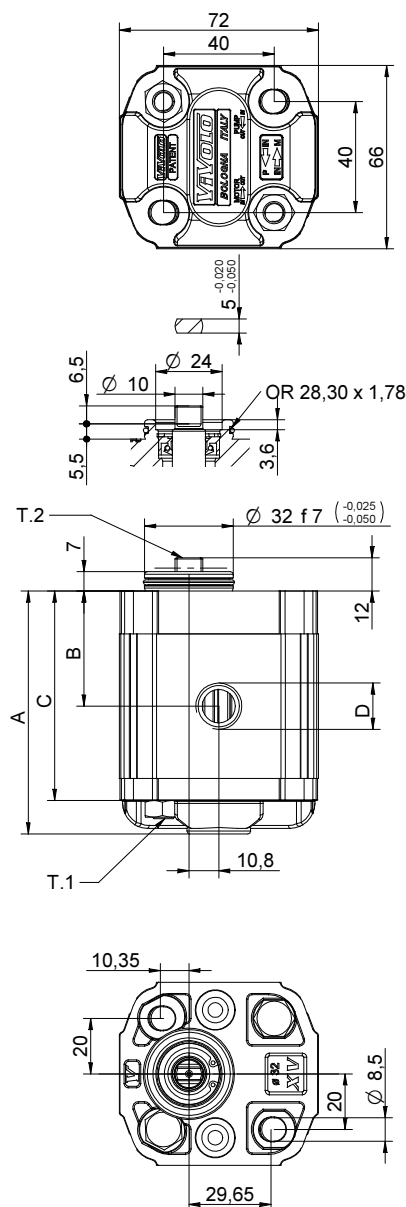
| TYPE      | Displacement | Max. Pressure |        | CODE                |                     |
|-----------|--------------|---------------|--------|---------------------|---------------------|
|           | cm3/rev      | P1 bar        | P3 bar | Left rotation       | Right rotation      |
| XV-1U/0.9 | 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 | A     | B    | C    | D         | D         |
|-----------|--------|-------|------|------|-----------|-----------|
|           | kg     | 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 X1P254,2088A.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 "BH" Body-Shaped FLANGE

| ø32 "BH" Body-Shaped FLANGE |    |                |    |
|-----------------------------|----|----------------|----|
| Left rotation               |    | Right rotation |    |
|                             | 41 |                | 42 |
|                             | 43 |                | 44 |
|                             | 45 |                | 46 |
|                             | 47 |                | 48 |

| Shaft                                                 |                                                                        |
|-------------------------------------------------------|------------------------------------------------------------------------|
| CF002 - Milled shank<br>T.2 = 13.8 [Nm]<br>           | CO001 - Tapered<br>T.2 = 43 [Nm]<br>                                   |
| SCF02 - Splined<br>T.2 = 42.8 [Nm]<br>m=0,75 Z=15<br> | SCF04 - Splined<br>T.2 = 22.6 [Nm]<br>m=1,6 Z=6<br>DIN 5482 - 12x9<br> |
| SCF01 - Splined<br>T.2 = 42.8 [Nm]<br>m=0,75 Z=15<br> | SCF03 - Splined<br>T.2 = 42.8 [Nm]<br>m=0,75 Z=15<br>                  |

| Cover         |                |
|---------------|----------------|
| Left rotation | Right rotation |
|               |                |
|               |                |
|               |                |
|               |                |
|               |                |
|               |                |

| 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 cm3/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 |  |

|                   |  |
|-------------------|--|
|                   |  |
| 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 cm3/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 |
|                        | H |  | I |  | J | Closed Body |   | Z |   |  | G |