

# unidirectional pump - series XV

**XV-3P**

**SAE B TYPE PUMP**  
**ø101.6 FLANGE - SPLINED SHAFT**

**X 3 P 78 32 I E E A**

|              |     |  |
|--------------|-----|--|
| Series       | X   | series XV  |
| Group        | 3   | group 3  |
| Category     | P   | unidirectional pump  |
| Displacement | 78  | 38   |
| Flange       | 32  | ø101.6 SAE B right rotation  |
| Shaft        | I   | SCF04 - Splined ø21.81 z=13, H=33.55 SAE J498-13T -16/32DP (SAE B) |
| Body         | IN  | inlet - 1" BSP   |
|              | OUT | outlet - 1" BSP  |
| Cover        | A   | standard   |



**XP331**

**Technical data table**

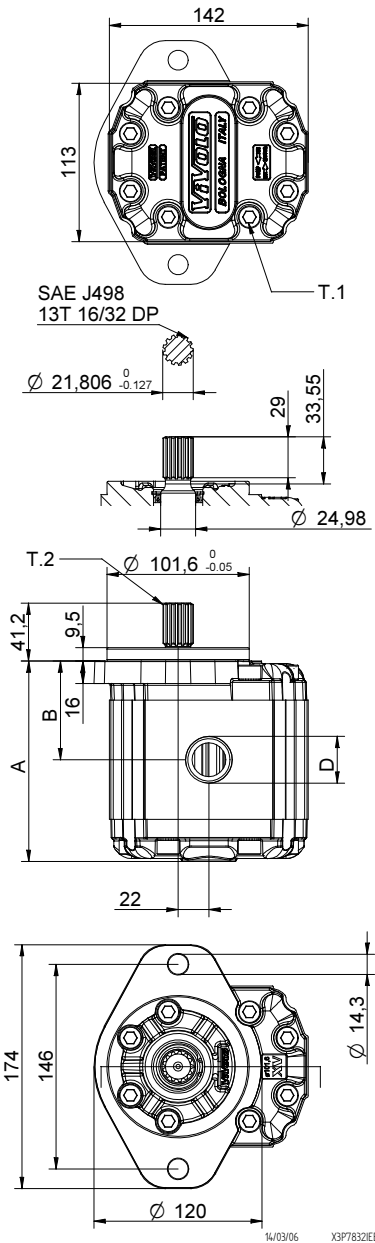
| TYPE     | Displacement<br>cm3/rev | Max. Pressure |        | CODE                |                     |
|----------|-------------------------|---------------|--------|---------------------|---------------------|
|          |                         | P1 bar        | P3 bar | Left rotation       | Right rotation      |
| XV-3P/15 | 14,89                   | 300           | 320    | X 3 P 66 31 I D D A | X 3 P 66 32 I D D A |
| XV-3P/18 | 17,37                   | 300           | 320    | X 3 P 68 31 I D D A | X 3 P 68 32 I D D A |
| XV-3P/21 | 21,10                   | 280           | 300    | X 3 P 70 31 I D D A | X 3 P 70 32 I D D A |
| XV-3P/27 | 26,97                   | 250           | 270    | X 3 P 72 31 I E E A | X 3 P 72 32 I E E A |
| XV-3P/32 | 32,27                   | 250           | 270    | X 3 P 74 31 I E E A | X 3 P 74 32 I E E A |
| XV-3P/38 | 38,47                   | 250           | 270    | X 3 P 78 31 I E E A | X 3 P 78 32 I E E A |
| XV-3P/43 | 43,44                   | 250           | 270    | X 3 P 79 31 I E E A | X 3 P 79 32 I E E A |
| XV-3P/47 | 47,16                   | 230           | 250    | X 3 P 80 31 I E E A | X 3 P 80 32 I E E A |
| XV-3P/51 | 50,88                   | 230           | 250    | X 3 P 81 31 I E E A | X 3 P 81 32 I E E A |
| XV-3P/54 | 54,60                   | 230           | 250    | X 3 P 82 31 I E E A | X 3 P 82 32 I E E A |
| XV-3P/61 | 60,81                   | 230           | 250    | X 3 P 83 31 I F F A | X 3 P 83 32 I F F A |
| XV-3P/64 | 64,53                   | 210           | 230    | X 3 P 85 31 I F F A | X 3 P 85 32 I F F A |
| XV-3P/70 | 70,74                   | 200           | 220    | X 3 P 86 31 I F F A | X 3 P 86 32 I F F A |
| XV-3P/74 | 74,46                   | 180           | 200    | X 3 P 87 31 I F F A | X 3 P 87 32 I F F A |
| XV-3P/90 | 86,87                   | 150           | 170    | X 3 P 89 31 I F F A | X 3 P 89 32 I F F 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    | D           | D           |
|----------|--------|-------|------|-------------|-------------|
|          | kg     | mm    | mm   | IN          | OUT         |
| XV-3P/15 | 7,010  | 124,0 | 61,0 | 3/4" BSPP   | 3/4" BSPP   |
| XV-3P/18 | 7,070  | 126,0 | 62,0 | 3/4" BSPP   | 3/4" BSPP   |
| XV-3P/21 | 7,150  | 129,0 | 63,5 | 3/4" BSPP   | 3/4" BSPP   |
| XV-3P/27 | 7,250  | 133,0 | 65,5 | 1" BSPP     | 1" BSPP     |
| XV-3P/32 | 7,390  | 138,0 | 68,0 | 1" BSPP     | 1" BSPP     |
| XV-3P/38 | 7,520  | 143,0 | 70,5 | 1" BSPP     | 1" BSPP     |
| XV-3P/43 | 7,630  | 147,0 | 72,5 | 1" BSPP     | 1" BSPP     |
| XV-3P/47 | 7,710  | 150,0 | 74,0 | 1" BSPP     | 1" BSPP     |
| XV-3P/51 | 7,790  | 153,0 | 75,5 | 1" BSPP     | 1" BSPP     |
| XV-3P/54 | 7,870  | 156,0 | 77,0 | 1" BSPP     | 1" BSPP     |
| XV-3P/61 | 8,010  | 161,0 | 79,5 | 1" 1/4 BSPP | 1" 1/4 BSPP |
| XV-3P/64 | 8,090  | 164,0 | 81,0 | 1" 1/4 BSPP | 1" 1/4 BSPP |
| XV-3P/70 | 8,220  | 169,0 | 83,5 | 1" 1/4 BSPP | 1" 1/4 BSPP |
| XV-3P/74 | 8,300  | 172,0 | 85,0 | 1" 1/4 BSPP | 1" 1/4 BSPP |
| XV-3P/90 | 8,570  | 182,0 | 90,0 | 1" 1/4 BSPP | 1" 1/4 BSPP |



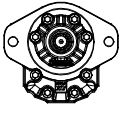



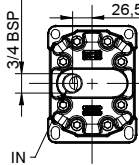
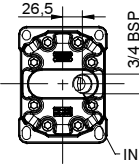
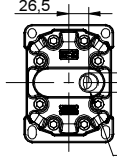
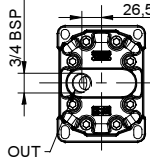
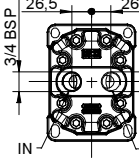
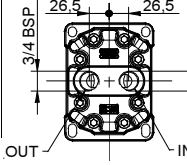
T.1 = 60÷65 [Nm] - screw tightening torque M10

T.2 = 264 [Nm] - admissible shaft torque (N.B. When choosing a shaft, always check the admissible torque).

# Table of variations

**XV-3P**

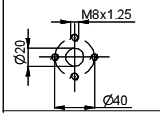
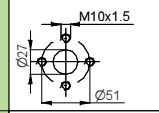
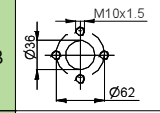
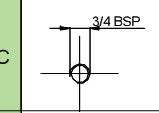
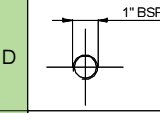
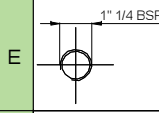
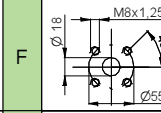
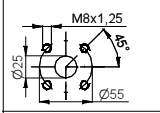
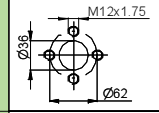
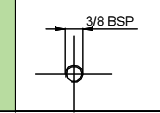
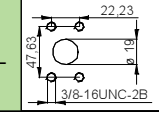
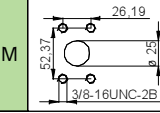
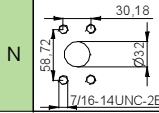
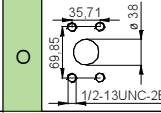
## ø101.6 FLANGE ""SAE B""

| ø101.6 FLANGE ""SAE B""   |   | Shaft                             |                                    | Cover  |  |
|---|---|-----------------------------------|------------------------------------|--|--|
| Left rotation   | Right rotation  |                                   |                                    | Left rotation  | Right rotation   |
|  |  | CO001 - Tapered<br>T.2 = 482 [Nm] | CI001 - Parallel<br>T.2 = 181 [Nm] |   |   |
| 31  | 32  | A                                 | B                                  | A  | A  |
|   |   | SCF03 - Splined<br>T.2 = 223 [Nm] | CI004 - Parallel<br>T.2 = 180 [Nm] |   |   |
|   |   | C                                 | H                                  | B  | B  |
|   |   | SCF04 - Splined<br>T.2 = 264 [Nm] |                                    |   |   |
|   |   | I                                 |                                    | C  | C  |
|   |   |                                   |                                    |  |  |
|   |   |                                   |                                    | D  | D  |

| Displacement |      |
|--------------|------|
| TYPE         | CODE |
| XV-3P/15     | 66   |
| XV-3P/18     | 68   |
| XV-3P/21     | 70   |
| XV-3P/27     | 72   |
| XV-3P/32     | 74   |
| XV-3P/38     | 78   |
| XV-3P/43     | 79   |
| XV-3P/47     | 80   |
| XV-3P/51     | 81   |
| XV-3P/54     | 82   |
| XV-3P/61     | 83   |
| XV-3P/64     | 85   |
| XV-3P/70     | 86   |
| XV-3P/74     | 87   |
| XV-3P/90     | 89   |

| Displacement cm3/rev | Standard bodies  |       |       |
|----------------------|------------------|-------|-------|
|                      | Standard threads |       |       |
| 15                   | A - A            | D - D | H - H |
| 18                   | A - A            | D - D | H - H |
| 21                   | A - A            | D - D | H - H |
| 27                   | A - A            | E - E | H - H |
| 32                   | B - B            | E - E | H - H |
| 38                   | B - B            | E - E | H - H |
| 43                   | B - B            | E - E | H - H |
| 47                   | B - B            | E - E | H - H |
| 51                   | B - B            | E - E | H - H |
| 54                   | B - B            | E - E | H - H |
| 61                   | C - C            | F - F |       |
| 64                   | C - C            | F - F |       |
| 70                   | C - C            | F - F |       |
| 74                   | C - C            | F - F |       |
| 90                   | C - C            | F - F |       |

Table showing standard flange and thread combinations available in stock

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