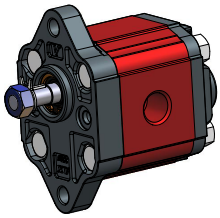
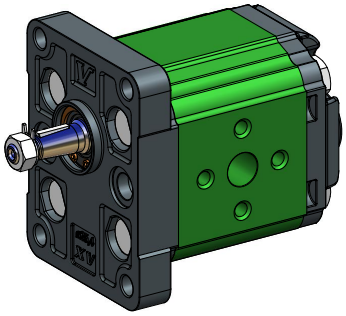
ViVoilViVolo
oleodinamica
®
1985

UNIDIRECTIONAL PUMPS

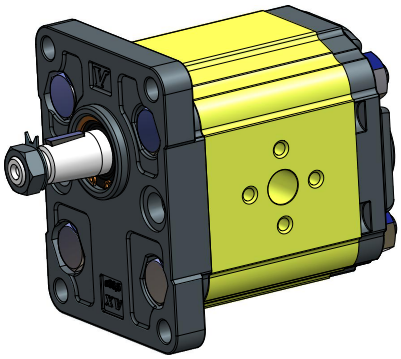
ENGLISH



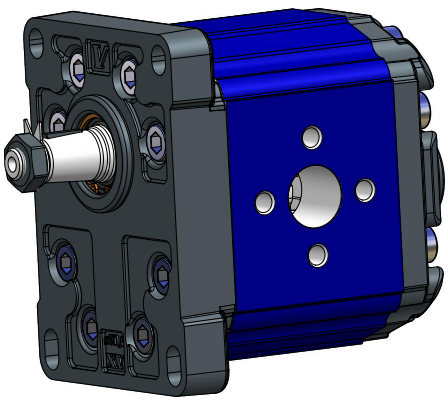
XV-0P



XV-1P



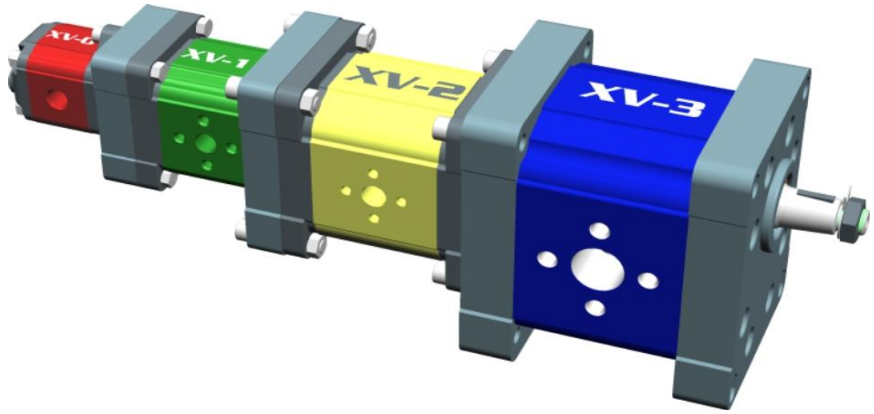
XV-2P

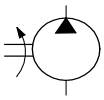
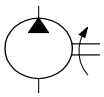


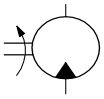
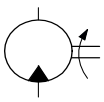
XV-3P

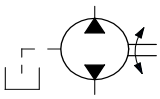
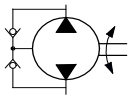
04-07-2006

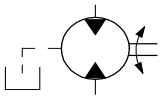
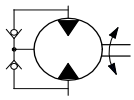
Symbols of Vivoil Oleodinamica Vivolo products



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

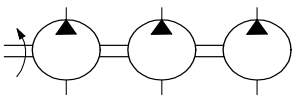
XV-0U	Unidirectional Motor	
XV-1U	Left Rotation	Right Rotation
XV-2U		
XV-3U		

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

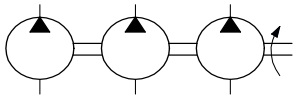
XV-0M	Reversible Motor	
XV-1M	External drainage	Internal drainage
XV-2M		
XV-3M		

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

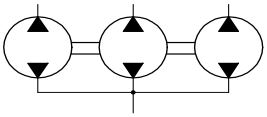
Left Rotation



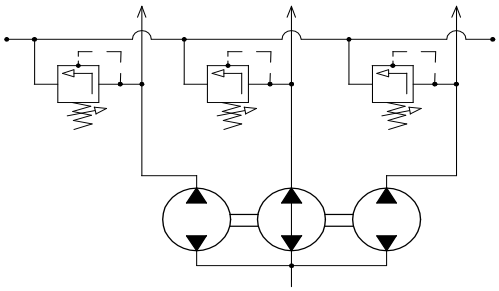
Right Rotation



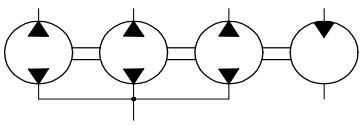
KV -DF	Flow divider



KV -DFV	Flow divired with valves



KV -DF+M	Flow divider with motor



UNIDIRECTIONAL PUMPS

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XV-0P

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

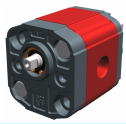
Example of ordering code:

XP001	**X0P0602ABBA**	XV0P/0.76 - Ø22 /D - CI001 - 1/4" BSP - 1/4" BSP - .

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

Example of ordering code:

XP012	**X0P0612BBBA**	XV0P/0.76 - Ø22 BH /D - CF001 - 1/4" BSP - 1/4" BSP - .

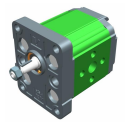


HY TYPE PUMP W/ BODY INLET AND OUTLET
ø22 BODY-SHAPED FLANGE - MILLED SHANK

Example of ordering code:

XP017	**X0P0622BBBA**	XV0P/0.76 - Ø22 HY /D - CF001 - 1/4" BSP - 1/4" BSP - .

XV-1P



STANDARD EUROPEAN PUMP
ø25.4 FLANGE - TAPER SHAFT

Example of ordering code:

XP101	**X1P2502FIIA**	XV1P/3.8 - Ø25.4 /D - CO001 - Ø30 M6 - Ø30 M6 - .

STANDARD EUROPEAN PUMP
ø25.4 FLANGE - TAPER SHAFT

Example of ordering code:

XP105	**X1P2502FBBA**	XV1P/3.8 - Ø25.4 /D - CO001 - 3/8" BSP - 3/8" BSP - .

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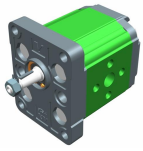
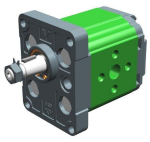
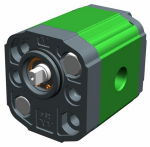
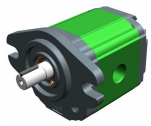
XV-3P

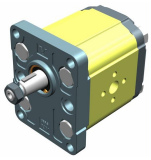
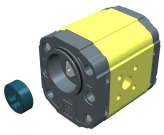
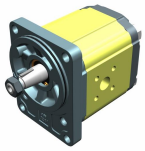
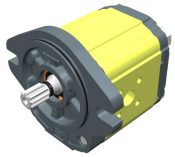
XV-0P

		
References: XP-001	References: XP-012	References: XP-017
Standard Ø22 FLANGE	Ø22 BH FLANGE	Ø22 HY FLANGE

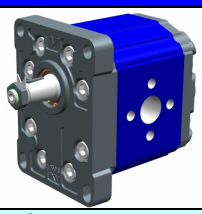
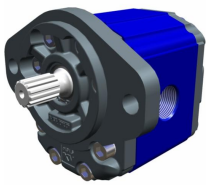
XV-1P

		
References: XP-101	References: XP-113	References: XP-119
Ø25.4 FLANGE	Ø30 FLANGE	Ø32 BH FLANGE
		
References : XP-140	References: XP-161	References: XP-168
Ø32 HY FLANGE	Standard German Ø32 BH	Ø50.8 SAE AA FLANGE

XV-2P

		
References : XP-201	References : XP-210	References: XP-213
Ø36.5 FLANGE	Ø50 BH FLANGE	Ø50 HY FLANGE
		
References: XP-216	References : XP-217	References : XP-219
Standard German Ø52 BH FLANGE	Standard German Ø80 FLANGE	Ø82.5 SAE A FLANGE

XV-3P

	
References : XP-301	References : XP-331
BASE Ø50,8 - Standard	BASE Ø101,6 SAE B

Vivoil Oleodinamica Vivolo s.r.l. presents a new series of gear pumps called **XV-P**.
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 pumps are divided into four groups:

XV-0P | XV1-P | XV-2P | XV-3P

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

Displacements from 0.16 cm^3 / revolution to 2.28 cm^3/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-1P are the following:

Displacements from 0.91 cm^3 / revolution to 9.88 cm^3/ 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-2P are the following:

Displacements from 4.2 cm^3 / revolution a 39.6 cm^3/ 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-3P are the following:

Displacements from 14.89 cm^3 / revolution to 86.87cm^3/ 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 - Pressures - Speeds

	Type	Displacement	Max. Pressure	Min speed	Max speed
XV-0P	XV-0P/0.17	0.16 cm^3/rev	260 bar	700 rpm	9000 rpm
	XV-0P/0.25	0.24 cm^3/rev	260 bar	700 rpm	9000 rpm
	XV-0P/0.45	0.45 cm^3/rev	280 bar	700 rpm	9000 rpm
	XV-0P/0.57	0.56 cm^3/rev	280 bar	700 rpm	9000 rpm
	XV-0P/0.76	0.75 cm^3/rev	280 bar	700 rpm	9000 rpm
	XV-0P/0.98	0.92 cm^3/rev	280 bar	700 rpm	6000 rpm
	XV-0P/1.27	1.26 cm^3/rev	280 bar	700 rpm	6000 rpm
	XV-0P/1.52	1.48 cm^3/rev	280 bar	700 rpm	6000 rpm
	XV-0P/2.30	2.28 cm^3/rev	210 bar	700 rpm	5000 rpm
XV-1P	XV-1P/0.9	0.91 cm^3/rev	280 bar	700 rpm	6000 rpm
	XV-1P/1.2	1.17 cm^3/rev	290 bar	700 rpm	6000 rpm
	XV-1P/1.7	1.56 cm^3/rev	290 bar	700 rpm	6000 rpm
	XV-1P/2.2	2.08 cm^3/rev	290 bar	700 rpm	6000 rpm
	XV-1P/2.6	2.60 cm^3/rev	300 bar	700 rpm	6000 rpm
	XV-1P/3.2	3.12 cm^3/rev	300 bar	700 rpm	6000 rpm
	XV-1P/3.8	3.64 cm^3/rev	300 bar	700 rpm	6000 rpm
	XV-1P/4.3	4.16 cm^3/rev	300 bar	700 rpm	6000 rpm
	XV-1P/4.9	4.94 cm^3/rev	300 bar	700 rpm	6000 rpm
	XV-1P/5.9	5.85 cm^3/rev	300 bar	700 rpm	5000 rpm
	XV-1P/6.5	6.50 cm^3/rev	300 bar	700 rpm	5000 rpm
	XV-1P/7.8	7.54 cm^3/rev	260 bar	700 rpm	5000 rpm
	XV-1P/9.8	9.88 cm^3/rev	230 bar	700 rpm	4000 rpm
XV-2P	XV-2P/4	4.2 cm^3/rev	300 bar	700 rpm	3500 rpm
	XV-2P/6	6.0 cm^3/rev	300 bar	700 rpm	3500 rpm
	XV-2P/9	8.4 cm^3/rev	300 bar	700 rpm	3500 rpm
	XV-2P/11	10.8 cm^3/rev	300 bar	700 rpm	3500 rpm
	XV-2P/14	14.4 cm^3/rev	290 bar	700 rpm	3500 rpm
	XV-2P/17	16.8 cm^3/rev	270 bar	700 rpm	3500 rpm
	XV-2P/19	19.2 cm^3/rev	250 bar	700 rpm	3000 rpm
	XV-2P/22	22.8 cm^3/rev	240 bar	700 rpm	3000 rpm
	XV-2P/26	26.2 cm^3/rev	210 bar	700 rpm	3000 rpm
	XV-2P/30	30.0 cm^3/rev	200 bar	700 rpm	2500 rpm
	XV-2P/34	34.2 cm^3/rev	190 bar	700 rpm	2500 rpm
	XV-2P/40	39.6 cm^3/rev	180 bar	700 rpm	2000 rpm
XV-3P	XV-3P/15	14.89 cm^3/rev	320 bar	700 rpm	3000 rpm
	XV-3P/18	17.37 cm^3/rev	320 bar	700 rpm	3000 rpm
	XV-3P/21	21.10 cm^3/rev	300 bar	700 rpm	3000 rpm
	XV-3P/27	26.97 cm^3/rev	270 bar	700 rpm	3000 rpm
	XV-3P/32	32.27 cm^3/rev	270 bar	700 rpm	3000 rpm
	XV-3P/38	38.47 cm^3/rev	270 bar	700 rpm	2800 rpm
	XV-3P/43	43.44 cm^3/rev	250 bar	700 rpm	2800 rpm
	XV-3P/47	47.16 cm^3/rev	250 bar	700 rpm	2800 rpm
	XV-3P/51	50.88 cm^3/rev	250 bar	700 rpm	2800 rpm
	XV-3P/54	54.60cm^3/rev	250 bar	700 rpm	2300 rpm
	XV-3P/61	60.81 cm^3/rev	220 bar	700 rpm	2300 rpm
	XV-3P/64	64.53 cm^3/rev	220 bar	700 rpm	2300 rpm
	XV-3P/70	70.74 cm^3/rev	210 bar	700 rpm	2300 rpm
	XV-3P/74	74.46 cm^3/rev	190 bar	700 rpm	2300 rpm
	XV-3P/90	86.87 cm^3/rev	160 bar	700 rpm	2300 rpm

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 ℃ - 60℃
Fluid operating temperature	-15℃ - 80℃
Recommended fluid operating temperature	30℃ - 50° C
For temperatures above 120℃	Request FKM seals (V iton)
Max. inlet fluid suction pressure (IN)	0.02-0.08 bars
Max. inlet fluid pressure (IN)	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
Use of water-glycol (HF-C)	max n. of revolutions 1100 rpm; max pressure 170 bars

Flow rate tables

TYPE	cm3/ rev		rpm															
			700	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500	6000	7000	8000	9000	
XV 0P/0.17	0,16	Flow rate l/min	0,106	0,152	0,228	0,304	0,380	0,456	0,532	0,608	0,684	0,760	0,836	0,912	1,064	1,216	1,368	Flow rate l/min
XV 0P/0.25	0,24		0,160	0,228	0,342	0,456	0,570	0,684	0,798	0,912	1,026	1,140	1,254	1,368	1,596	1,824	2,052	
XV 0P/0.45	0,45		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	
XV 0P/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 0P/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 0P/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 0P/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 0P/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 0P/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		rpm											
			700	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500	6000
XV 1P/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
XV 1P/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 1P/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 1P/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 1P/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 1P/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 1P/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 1P/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 1P/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 1P/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 1P/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 1P/7.8	7,54		5,460	7,800	11,700	15,600	19,500	23,400	27,300	31,200	35,100	39,000		
XV 1P/9.8	9,88		6,860	9,800	14,700	19,600	24,500	29,400	34,300	39,200				

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

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

TORQUES ALLOWED ON SHAFT:

FORMULA FOR EVALUATING SHAFT		SHAFT [IDENTIFIER] - CODE - DESCRIPTION	T.2 [Nm]
$T.2 \leq \frac{vi \times \Delta p}{20 \times \pi \times \eta m}$ **T.2** = max. torque allowed by shaft [Nm]	XV-0P	[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-1P	[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-2P	[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-3P	[A] - CO001 - Tapered 1:8 - ø22 – M14x1.5 - key thk.4	482
		[B] - CI001 - Parallel ø20 - M8 - key thk.5	181
		[C] - SCF03 - Splined ø21.5, z=13, H=25, m=1,6	223
		[H] - CI004 - Parallel ø22.225– 1/4"28-UNF key thk.6.35 (SAE B)	180
		[I] - SCF04 - Splined ø21.8059, z=13, H=25, SAE J498 9T 16/32DP	264

NOTES:

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

Always make sure that the torque applied is less than or equal to the admissible torque of the shaft.

Do not apply a direct axial or radial load on the pump 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 pumps with outlets on the flange, it is recommended not to exceed a flow rate of

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

Useful calculation formulas

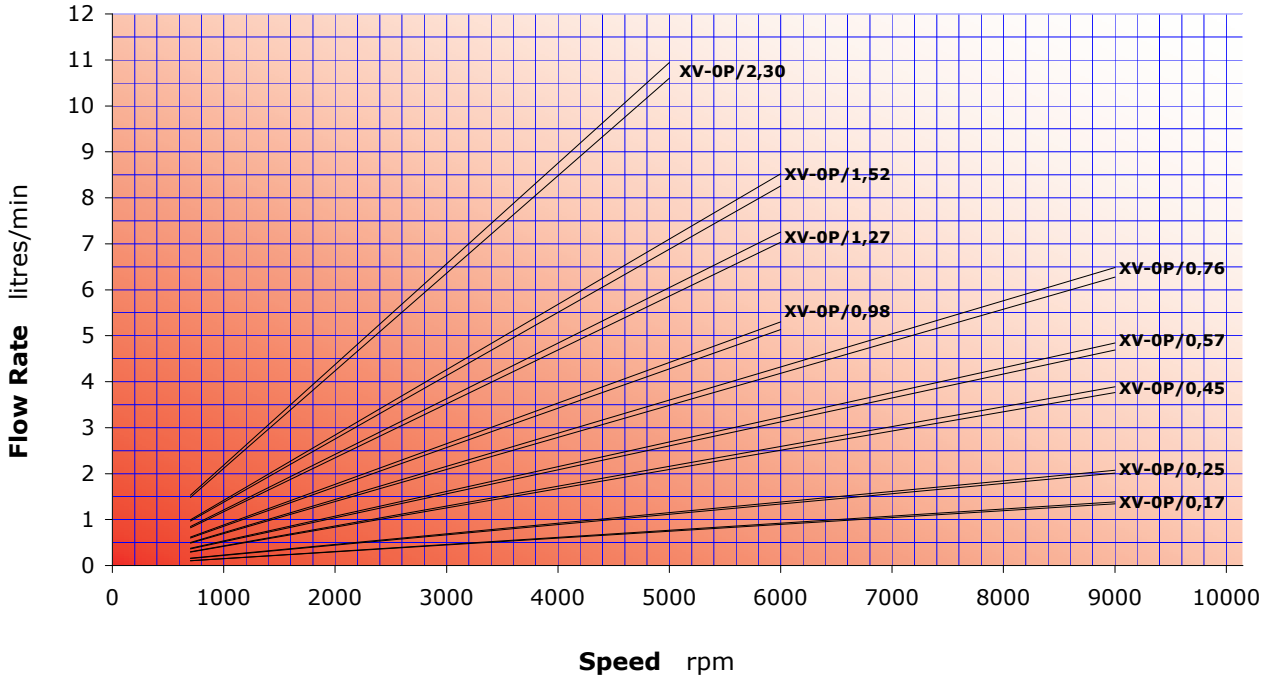
SYMBOL,	UNIT OF MEASUREMENT,	DESCRIPTION
qv	l/min	Flow rate
vi	cm^3/rev.	Displacement (volume of oil displaced per complete revolution of the shaft)
n	rpm	Shaft rotation speed
p1	bar	inlet pressure
p2	bar	outlet pressure
Δp	bar	Δp=p2 - p1 difference between outlet (OUT) and inlet (IN) pressure
Ph	kW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

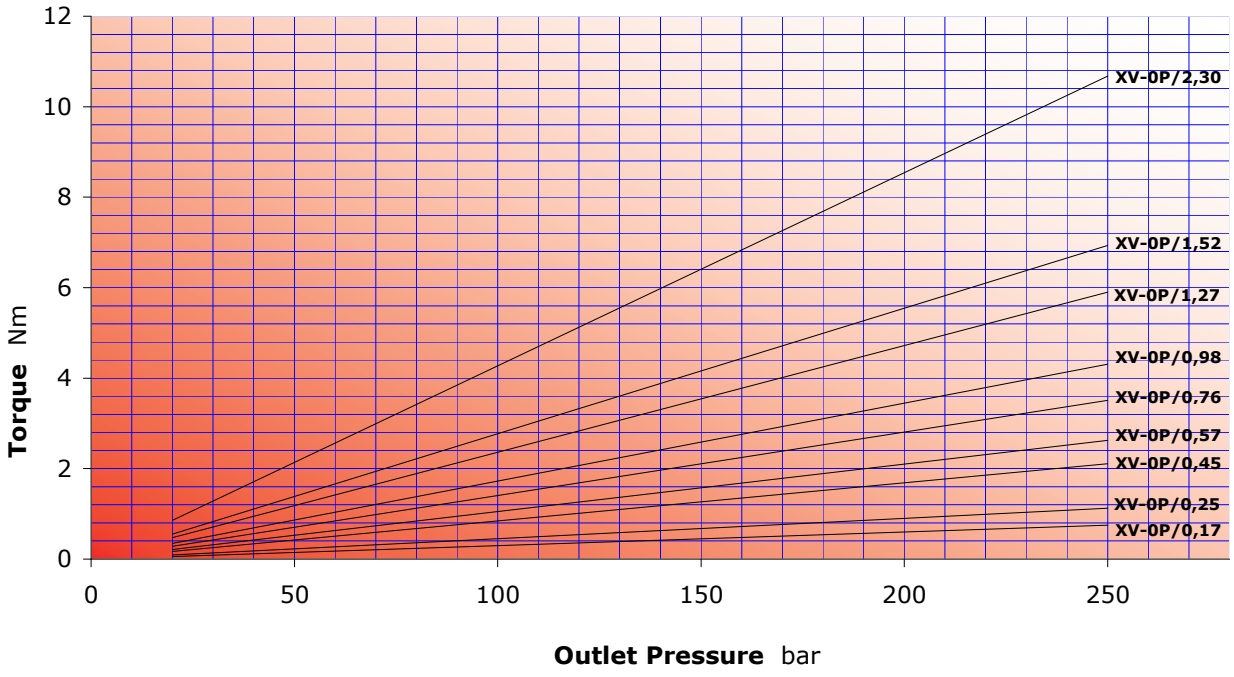
Constructive features

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 excellen 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℃ 80 Shore, thermal resistance 200℃
BACK-UP RINGS	Virgin PTFE Tecnil Q3	

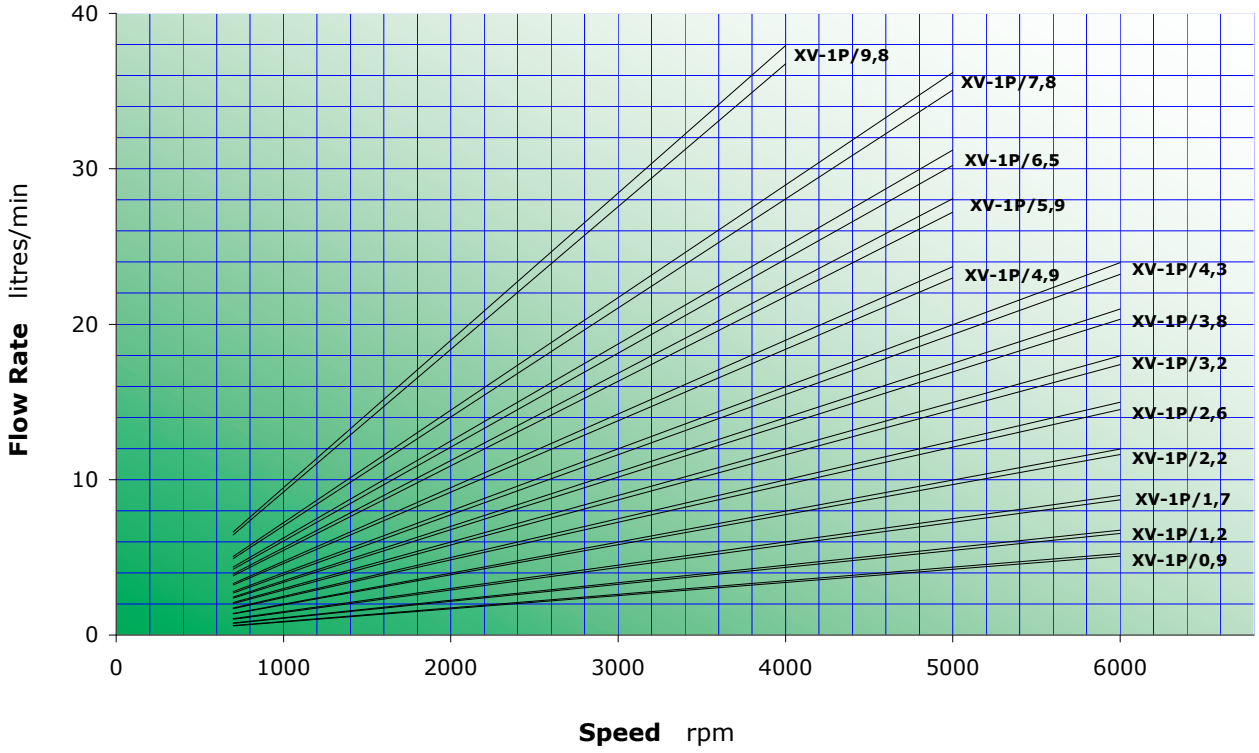
XV-0P CHARACTERISTIC FLOW RATE CURVES



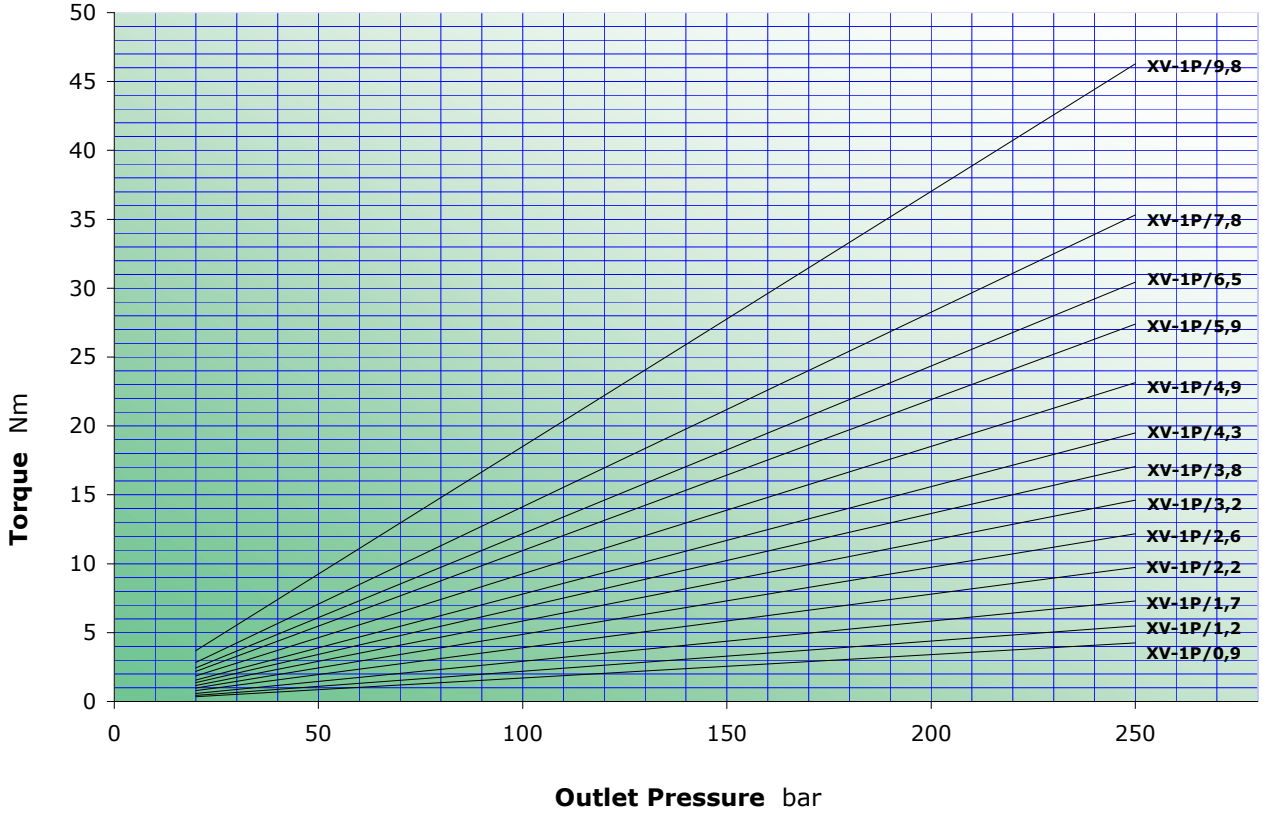
XV-0P MOTOR TORQUE



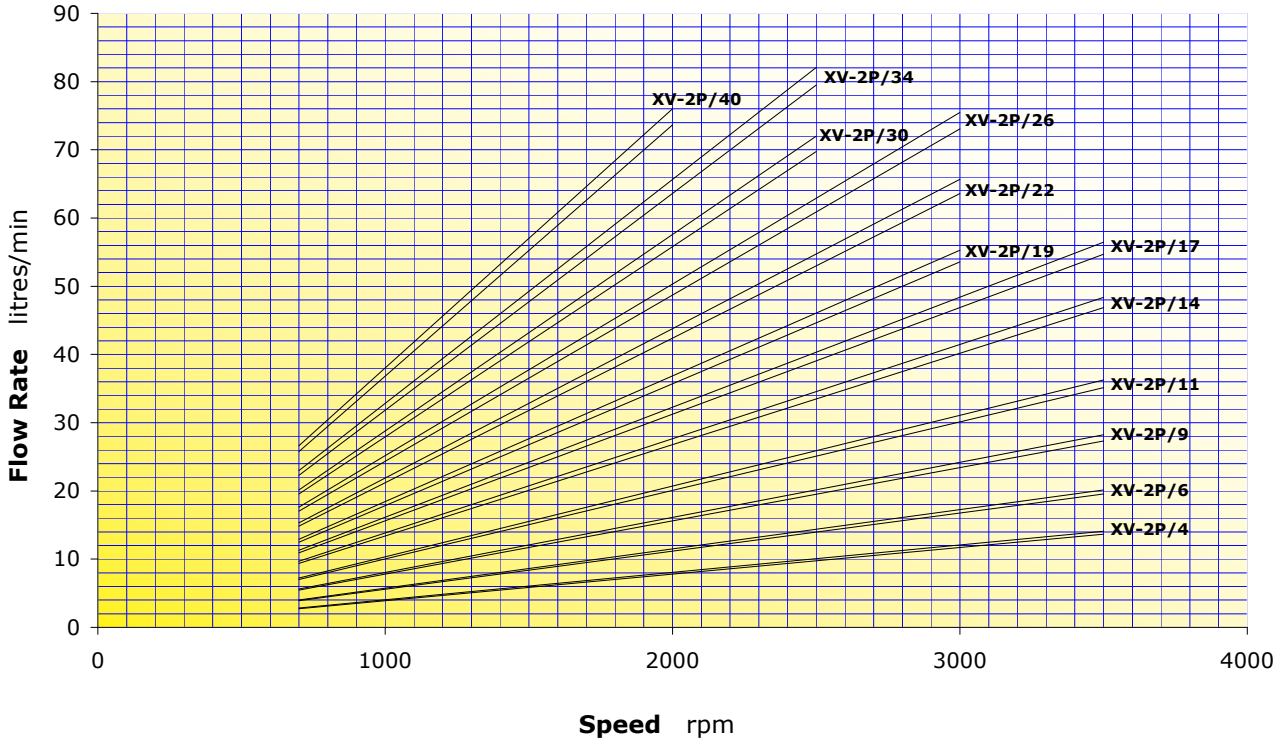
XV-1P CHARACTERISTIC FLOW RATE CURVES



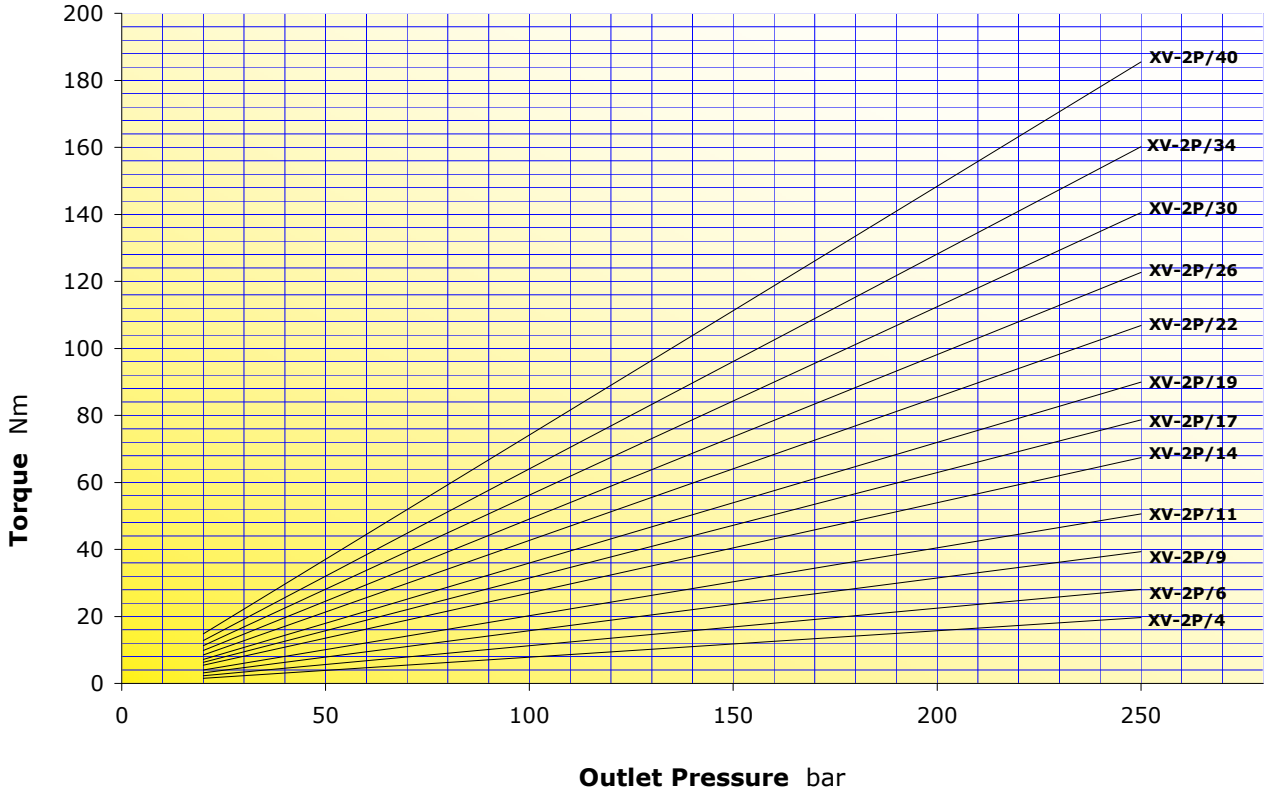
XV-1P MOTOR TORQUE



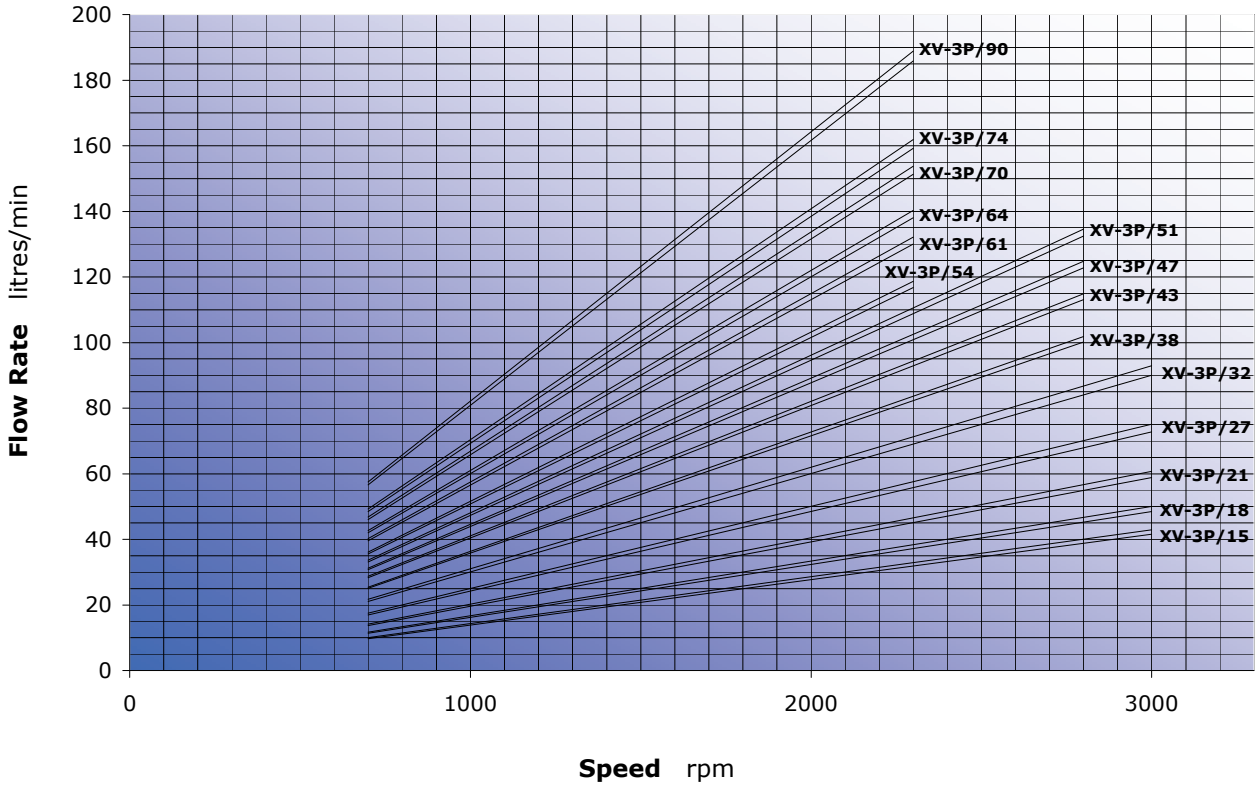
XV-2P CHARACTERISTIC FLOW RATE CURVES



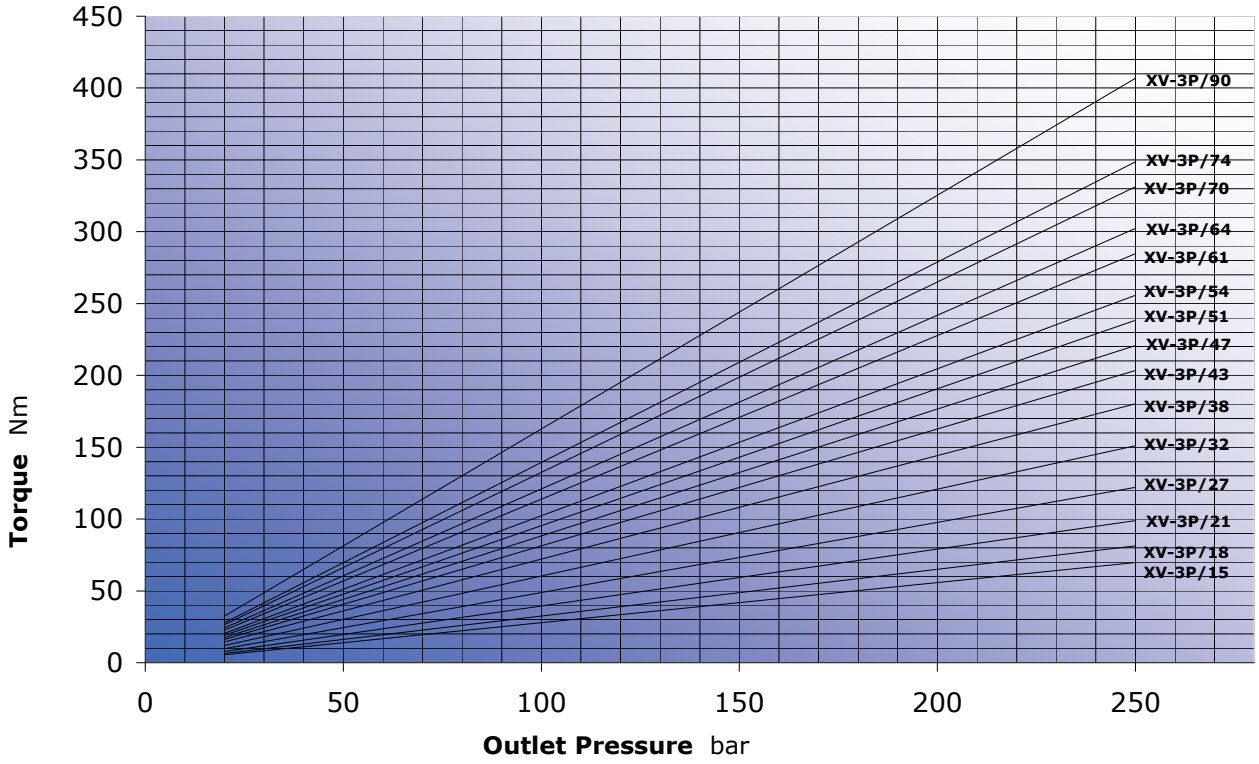
XV-2P MOTOR TORQUE



XV-3P CHARACTERISTIC FLOW RATE CURVES

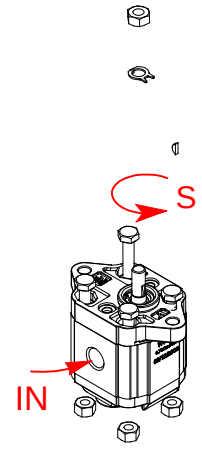
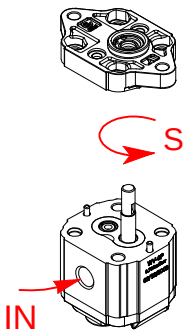
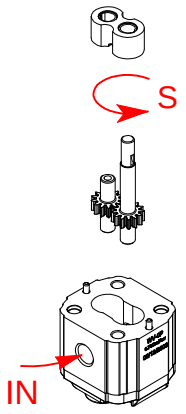
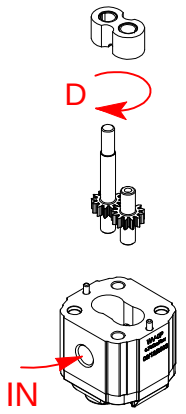
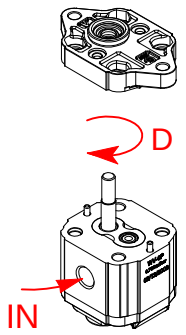
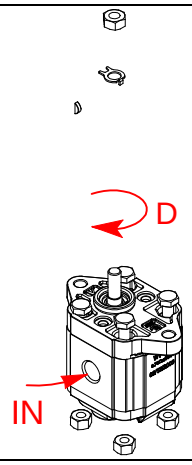


XV-3P MOTOR TORQUE



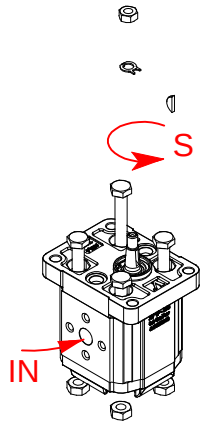
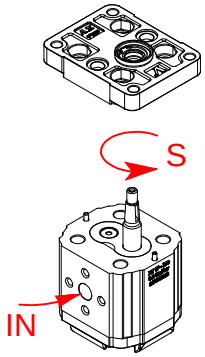
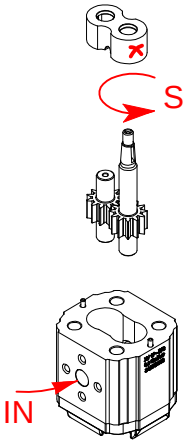
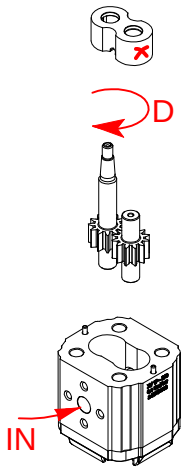
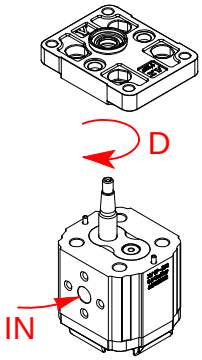
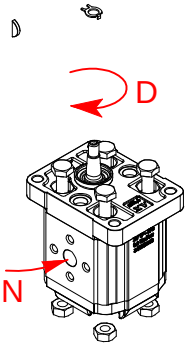
XV0-P with Flange ø22 Std, BH-HY (ref .from XP- 001 to XP-017)

When changing the direction of rotation of the XV-0P pump, it is not necessary to change the flange, as the same one is used.
When disassembling and reassembling the pump, 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 pump.

Flange *ø22* (ref. from XP- 001 to: XP- 017)					
					
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 never** 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.	Insert the screws back in place and tighten the nuts with a torque of 11.7 Nm to 13.7 Nm. Check that the shaft turns on completing the operation.
Note: with this rotation change system, the **inlets** and **outlets** remain unchanged.					

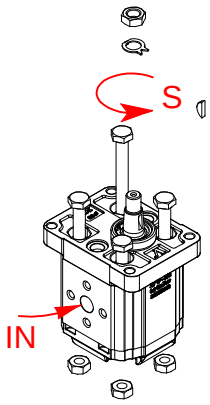
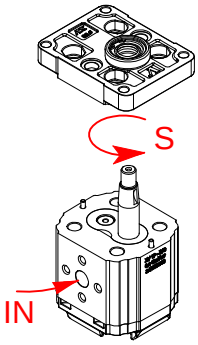
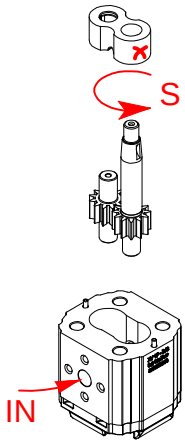
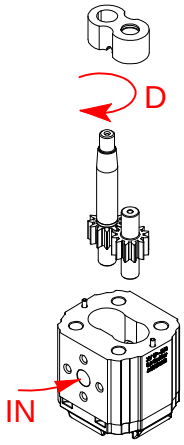
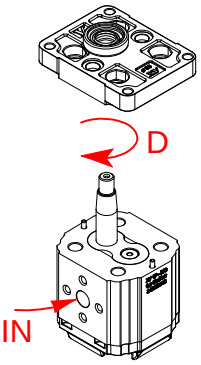
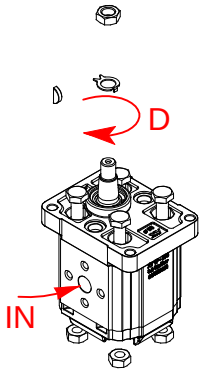
XV1-P with Flange ø25.4 (ref. XP- 101)

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

Flange ø25,4 (ref. XP- 101)					
					
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 never** 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.					

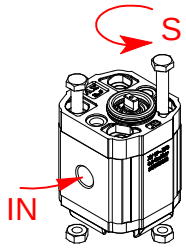
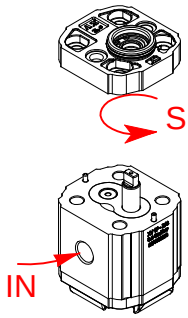
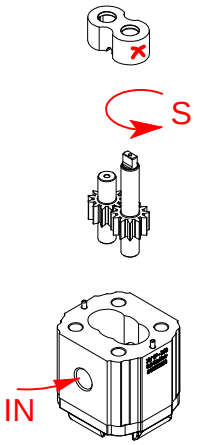
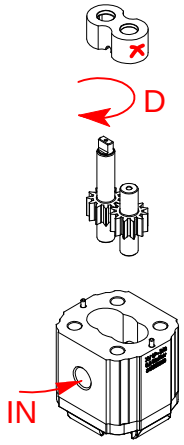
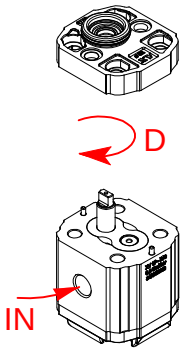
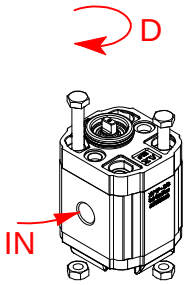
XV1-P with Flange ø30 (ref. XP- 113)

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

Flange ø30 (ref. XP- 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.					

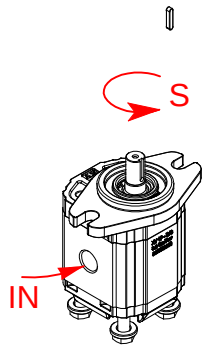
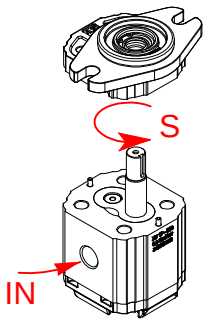
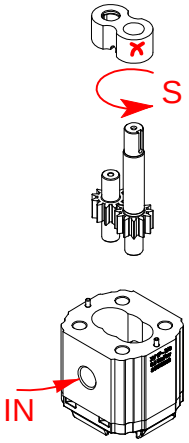
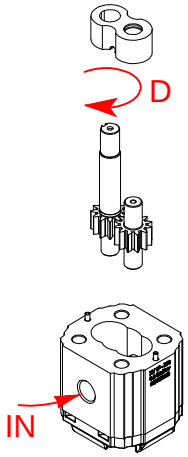
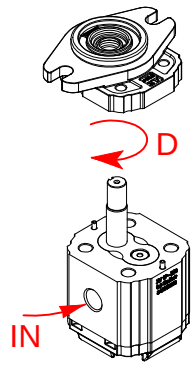
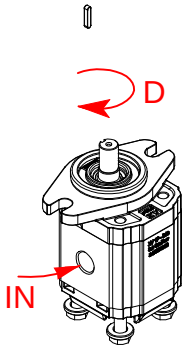
XV1-P with Flange ø32 BH-HY (ref. from XP- 119 to: XP- 140)

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

FLANGE ø32 BH-HY (ref. da XP- 119 a: XP- 140)					
					
Loosen and remove the fastening screws.	Take off the flange.	Take out the gears and upper bush. Warning!! The bush **must never** 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.					

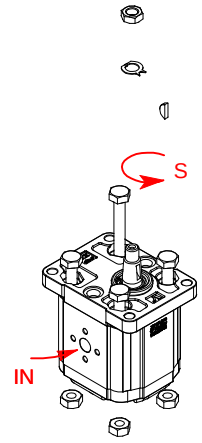
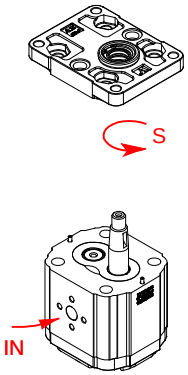
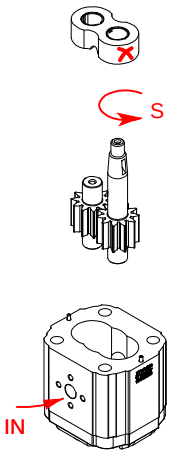
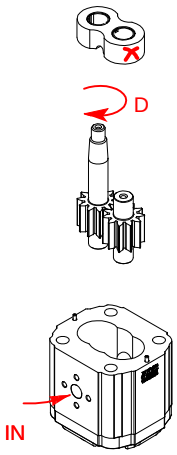
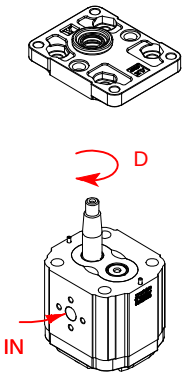
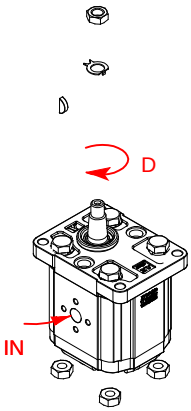
XV1-P with Flange ø50.8 SAE-AA (ref. XP- 168)

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

FLANGE ø50.8 SAE-AA *(ref. XP- 168)*					
					
Remove the key 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 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.
Note: with this rotation change system, the **inlets** and **outlets** remain unchanged.					

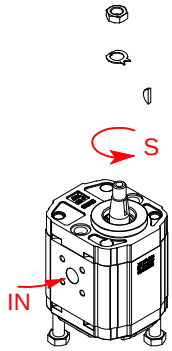
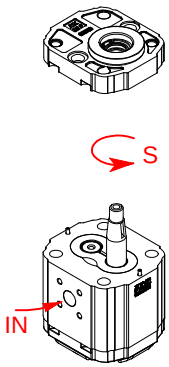
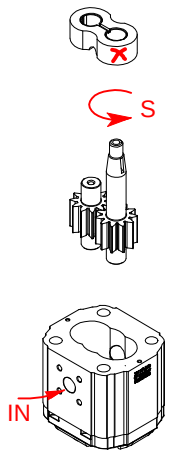
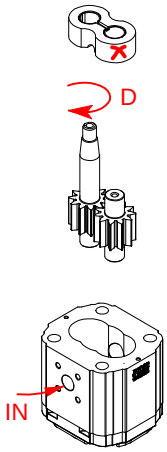
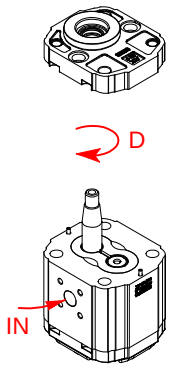
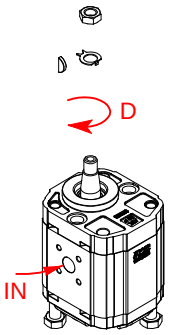
XV2-P with Flange ø36,5 (ref. XP- 201)

When changing the direction of rotation of the XV-2P pump, it is not necessary to change the flange, as the same one is used.
When disassembling and reassembling the pump, 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 pump.

FLANGE ø36,5 (ref. XP- 201)					
					
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 never** 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 54 Nm to 58.9 Nm. Check that the shaft turns on completing the operation.
Note: with this rotation change system, the **inlets** and **outlets** remain unchanged.					

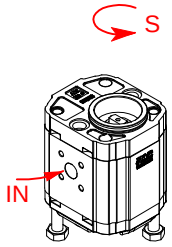
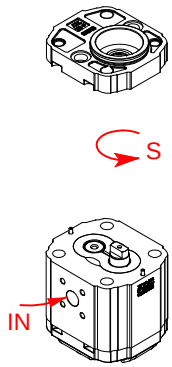
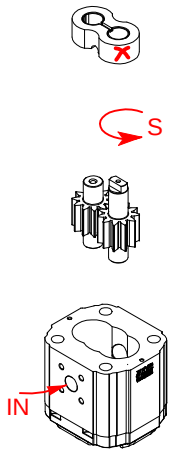
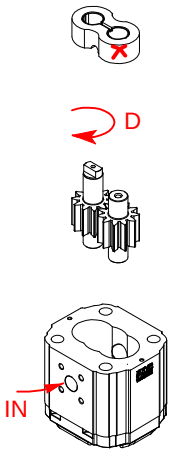
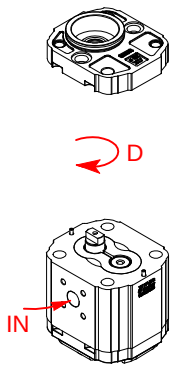
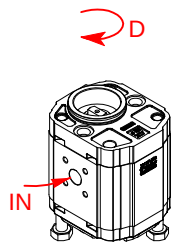
XV2-P with Flange ø50 BH-HY (ref. da XP- 210 a: XP- 213)

When changing the direction of rotation of the XV-2P pump, it is not necessary to change the flange, as the same one is used.
When disassembling and reassembling the pump, 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 pump.

FLANGE ø50 BH-HY (ref. da XP- 210 a: XP- 213)					
					
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 never** 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 54 Nm to 58.9Nm. Check that the shaft turns on completing the operation.
Note: with this rotation change system, the **inlets** and **outlets** remain unchanged.					

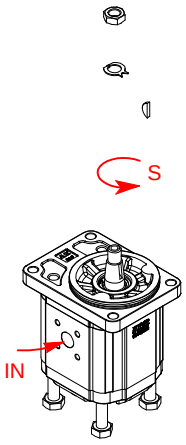
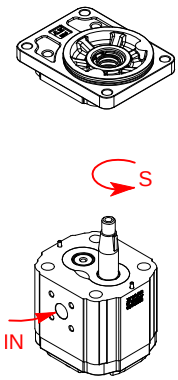
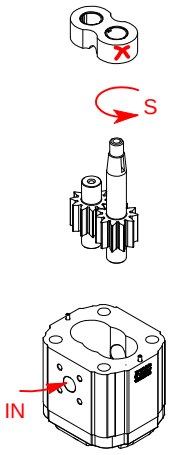
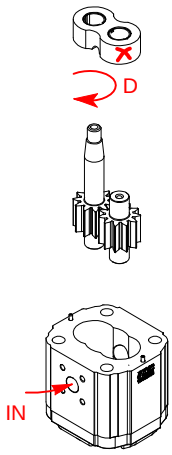
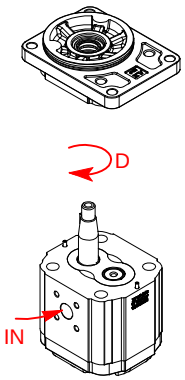
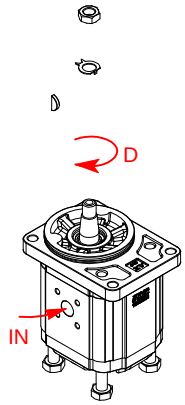
XV2-P with Flange ø52 BH (ref. XP- 216)

When changing the direction of rotation of the XV-2P pump, it is not necessary to change the flange, as the same one is used.
When disassembling and reassembling the pump, 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 pump.

FLANGE ø52 BH (ref.XP- 216)					
					
Loosen and remove the fastening screws.	Take off the flange.	Take out the gears and upper bush. Warning!! The bush must never 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 54 Nm to 58.9Nm. Check that the shaft turns on completing the operation.
Note: with this rotation change system, the **inlets** and **outlets** remain unchanged.					

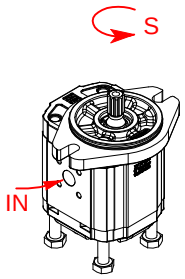
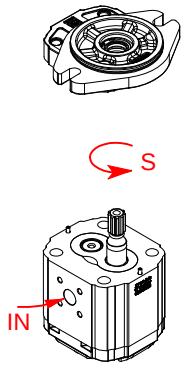
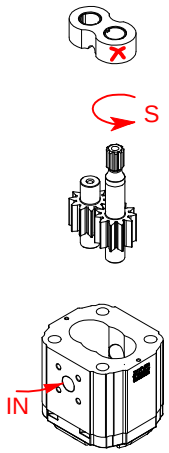
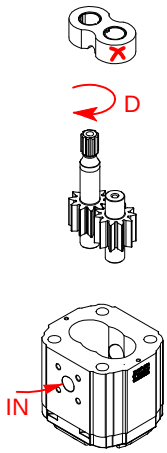
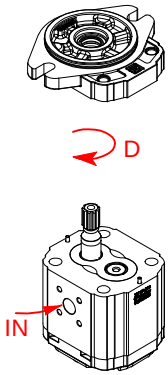
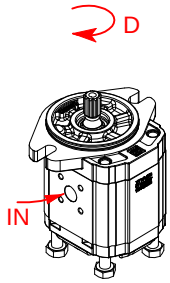
XV2-P with Flange ø80 (ref. XP- 217)

When changing the direction of rotation of the XV-2P pump, it is not necessary to change the flange, as the same one is used.
When disassembling and reassembling the pump, 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 pump.

FLANGE ø80 (ref.XP- 217)					
					
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 never** 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 54 Nm to 58.9 Nm. Check that the shaft turns on completing the operation.
Note: with this rotation change system, the **inlets** and **outlets** remain unchanged.					

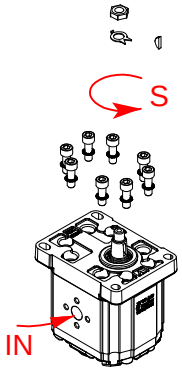
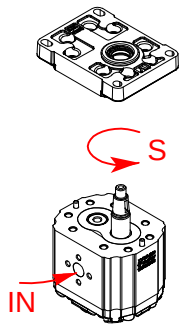
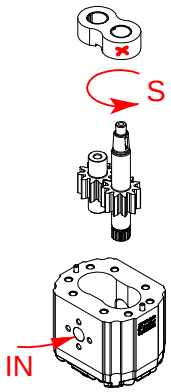
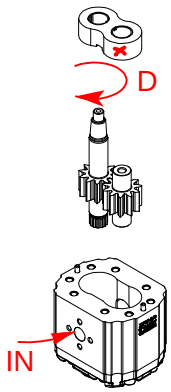
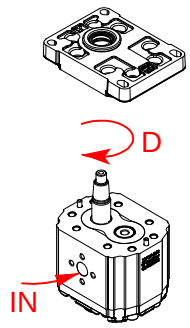
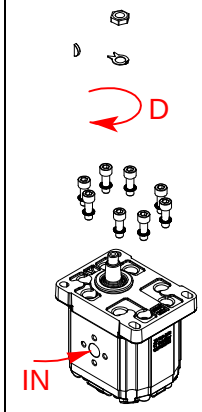
XV2-P with Flange ø82,5 SAE-A (ref. da XP- 219 a: XP- 224)

When changing the direction of rotation of the XV-2P pump, it is not necessary to change the flange, as the same one is used.
When disassembling and reassembling the pump, 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 pump.

FLANGE ø82,5 SAE-A (ref. XP- 219)					
					
Loosen and remove the fastening screws.	Take off the flange.	Take out the gears and upper bush. Warning!! The bush **must never** 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 54 Nm to 58.9Nm. Check that the shaft turns on completing the operation.
Note: with this rotation change system, the **inlets** and **outlets** remain unchanged.					

XV3-P with Flange ø50,8 (ref. da XP- 301 a: XP- 302)

When changing the direction of rotation of the XV-3P pump, it is not necessary to change the flange, as the same one is used.
When disassembling and reassembling the pump, 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 pump.

Flange ø50,8 (ref. da XP- 301 a: XP- 302)					
					
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 never** 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 60 Nm to 65 Nm. Check that the shaft turns on completing the operation.
Note: with this rotation change system, the **inlets** and **outlets** remain unchanged.					

XV3-P with Flange ø101,6 SAE –B (ref. da XP- 331 a: XP- 332)

When changing the direction of rotation of the XV-3P pump, it is not necessary to change the flange, as the same one is used.
When disassembling and reassembling the pump, 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 pump.

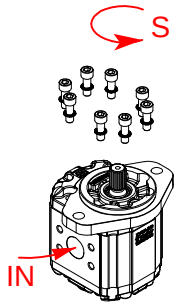
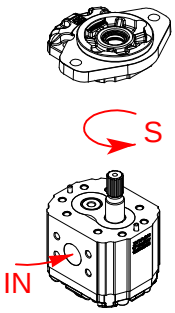
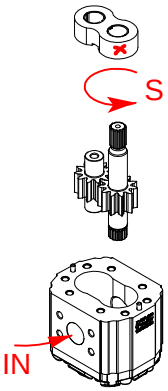
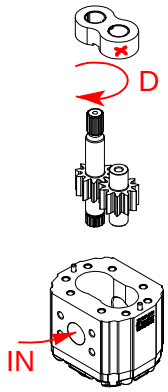
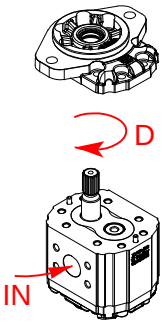
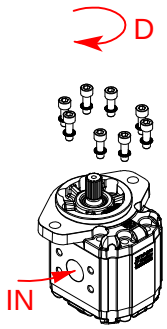
Flange ø101,6– SAE B (ref. da XP- 331 a: XP- 332)					
					
Loosen and remove the fastening screws.	Take off the flange.	Take out the gears and upper bush. Warning!! The bush **must never** be turned.	Invert the positions of the driven and driving shafts. Warning! The body and cover must not be turned. 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 60 Nm to 65 Nm. Check that the shaft turns on completing the operation.
Note: with this rotation change system, the **inlets** and **outlets** remain unchanged.					

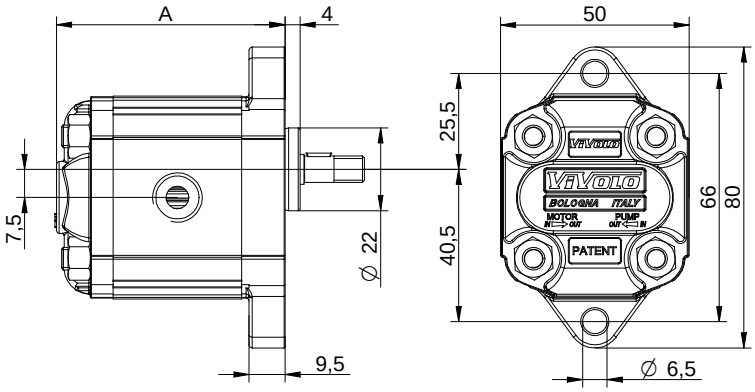
Table of variations

These two pages provide an overview of all the possible variations for customising a pump with a standard ø22 flange.

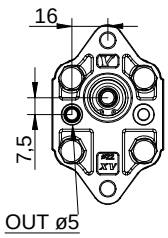
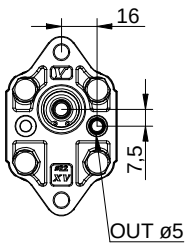
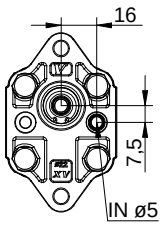
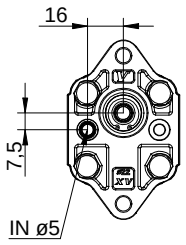
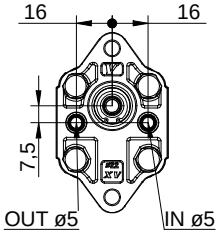
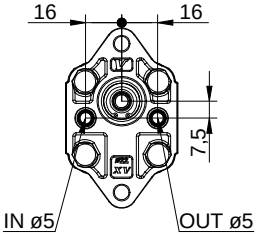
By filling in the missing data you can obtain the complete code of the product to be customised.

X	0	P						

Series		X	series XV
Group		0	group 0
Category		P	unidirectional pump
Displacement			
Flange			
Shaft			
Body	IN		
	OUT		
Cover			



Standard ø22 FLANGE

Left rotation	Code	Right rotation	Code
	01		02
	03		04
	05		06
	07		08

Shaft

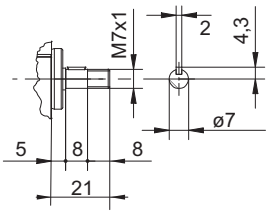
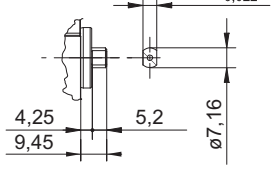
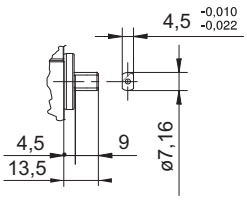
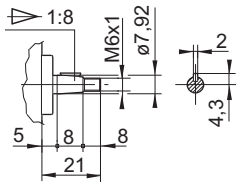
	Code		Code
CI001 - Parallel  T.2 = 2.1 [Nm]	A	CF001 - Milled shank  T.2 = 9.2 [Nm]	B
CF005 - Milled shank  T.2 = 8.4 [Nm]	F	CO001 - Tapered  T.2 = 21.9 [Nm]	E

Table of variations

Displacement

TYPE	CODE	A
		mm
XV-0P/0.17	01	55,8
XV-0P/0.25	02	56,4
XV-0P/0.45	04	58,0
XV-0P/0.57	05	59,0
XV-0P/0.76	06	60,5
XV-0P/0.98	07	62,0
XV-0P/1.27	09	64,5
XV-0P/1.52	11	66,5
XV-0P/2.30	13	72,5

Standard bodies

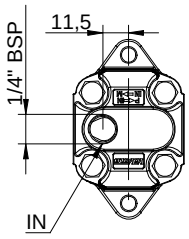
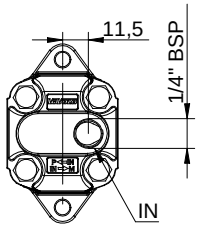
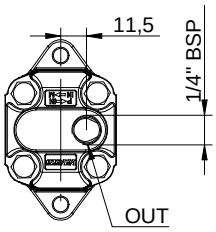
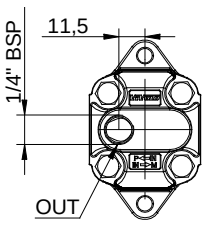
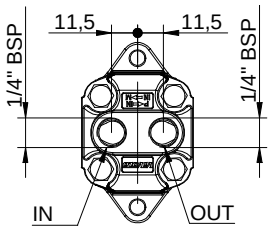
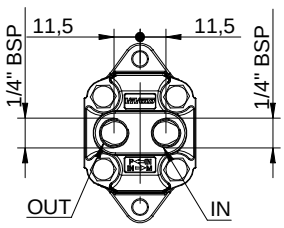
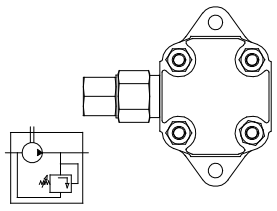
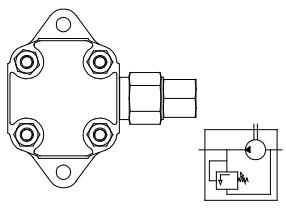
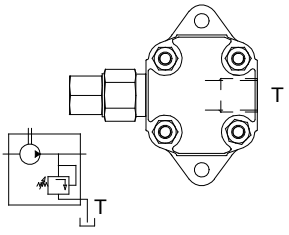
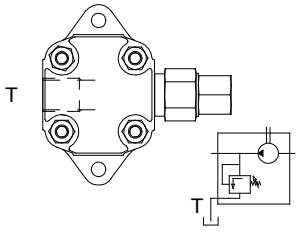
Displacement cm3/rev	Standard threads		
0,17	B - B	Z - B	Z - Z
0,25	B - B	Z - B	Z - Z
0,45	B - B	Z - B	Z - Z
0,57	B - B	Z - B	Z - Z
0,76	B - B	Z - B	Z - Z
0,98	B - B	Z - B	Z - Z
1,27	B - B	Z - B	Z - Z
1,52	B - B	Z - B	Z - Z
2,30	B - B	Z - B	Z - Z

Table showing standard flange and thread combinations available in stock

Body (threads/flanges)

1/8" BSP	A	1/4" BSP	B	3/8" BSP	C
M10x1	D	M12x1	E	M14x1	F
M16x1	G	M5x0.8	H	M5x0.8	I
Closed body	Z				

Cover

Left rotation	Right rotation	Code
		A
		B
		C
		D
 Internal drainage	 Internal drainage	N
 External drainage	 External drainage	O

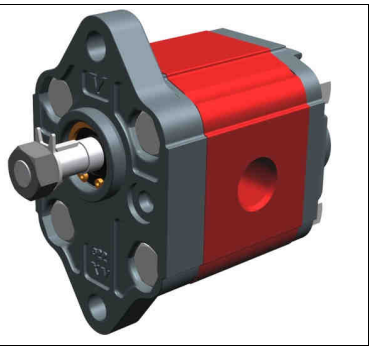
unidirectional pump - series XV

XV-0P

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

X	0	P	06	02	A	B	B	A

Series		X	series XV
Group		0	group 0
Category		P	unidirectional pump
Displacement		06	0.76
Flange		02	Ø22 right rotation
Shaft		A	CI001 - Parallel ø7 - M7x1 - key thk. 2
Body	IN	B	inlet - 1/4" GAS
	OUT	B	outlet - 1/4" GAS
Cover		A	standard



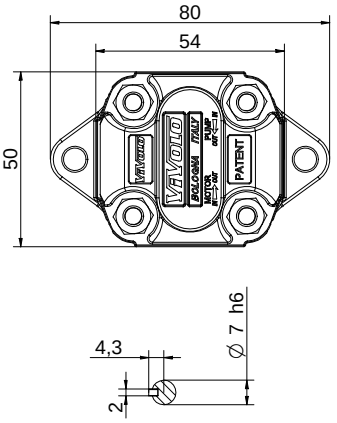
Reference **XP001**

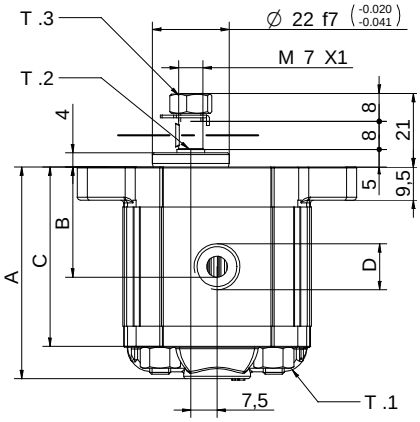
Technical data table

TYPE	Displacement	Max. Pressure		CODE	
	cm3/rev	P1 bar	P3 bar	Left rotation	Right rotation
XV-0P/0.17	0,16	220	260	X 0 P 01 01 A B B A	X 0 P 01 02 A B B A
XV-0P/0.25	0,24	220	260	X 0 P 02 01 A B B A	X 0 P 02 02 A B B A
XV-0P/0.45	0,45	220	280	X 0 P 04 01 A B B A	X 0 P 04 02 A B B A
XV-0P/0.57	0,56	220	280	X 0 P 05 01 A B B A	X 0 P 05 02 A B B A
XV-0P/0.76	0,75	220	280	X 0 P 06 01 A B B A	X 0 P 06 02 A B B A
XV-0P/0.98	0,92	220	280	X 0 P 07 01 A B B A	X 0 P 07 02 A B B A
XV-0P/1.27	1,26	220	280	X 0 P 09 01 A B B A	X 0 P 09 02 A B B A
XV-0P/1.52	1,48	220	280	X 0 P 11 01 A B B A	X 0 P 11 02 A B B A
XV-0P/2.30	2,28	190	210	X 0 P 13 01 A B B A	X 0 P 13 02 A B B A

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

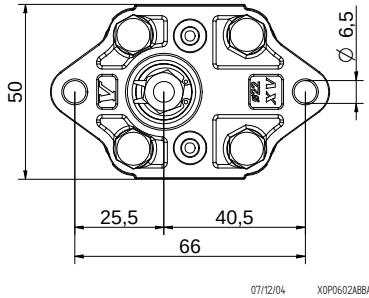
For heavy-duty applications, it is recommended to check the admissible torque of the shaft





Dimensions table

TYPE	Weight	A	B	C	D	D
	kg	mm	mm	mm	IN	OUT
XV-0P/0.17	0,400	55,8	26,2	46,8	1/4" BSPP	1/4" BSPP
XV-0P/0.25	0,410	56,4	26,5	47,4	1/4" BSPP	1/4" BSPP
XV-0P/0.45	0,420	58,0	27,3	49,0	1/4" BSPP	1/4" BSPP
XV-0P/0.57	0,430	59,0	27,8	50,0	1/4" BSPP	1/4" BSPP
XV-0P/0.76	0,440	60,5	28,5	51,5	1/4" BSPP	1/4" BSPP
XV-0P/0.98	0,460	62,0	29,3	53,0	1/4" BSPP	1/4" BSPP
XV-0P/1.27	0,480	64,5	30,5	55,5	1/4" BSPP	1/4" BSPP
XV-0P/1.52	0,500	66,5	31,5	57,5	1/4" BSPP	1/4" BSPP
XV-0P/2.30	0,560	72,5	34,5	63,5	1/4" BSPP	1/4" BSPP



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

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

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

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unidirectional pump - series XV

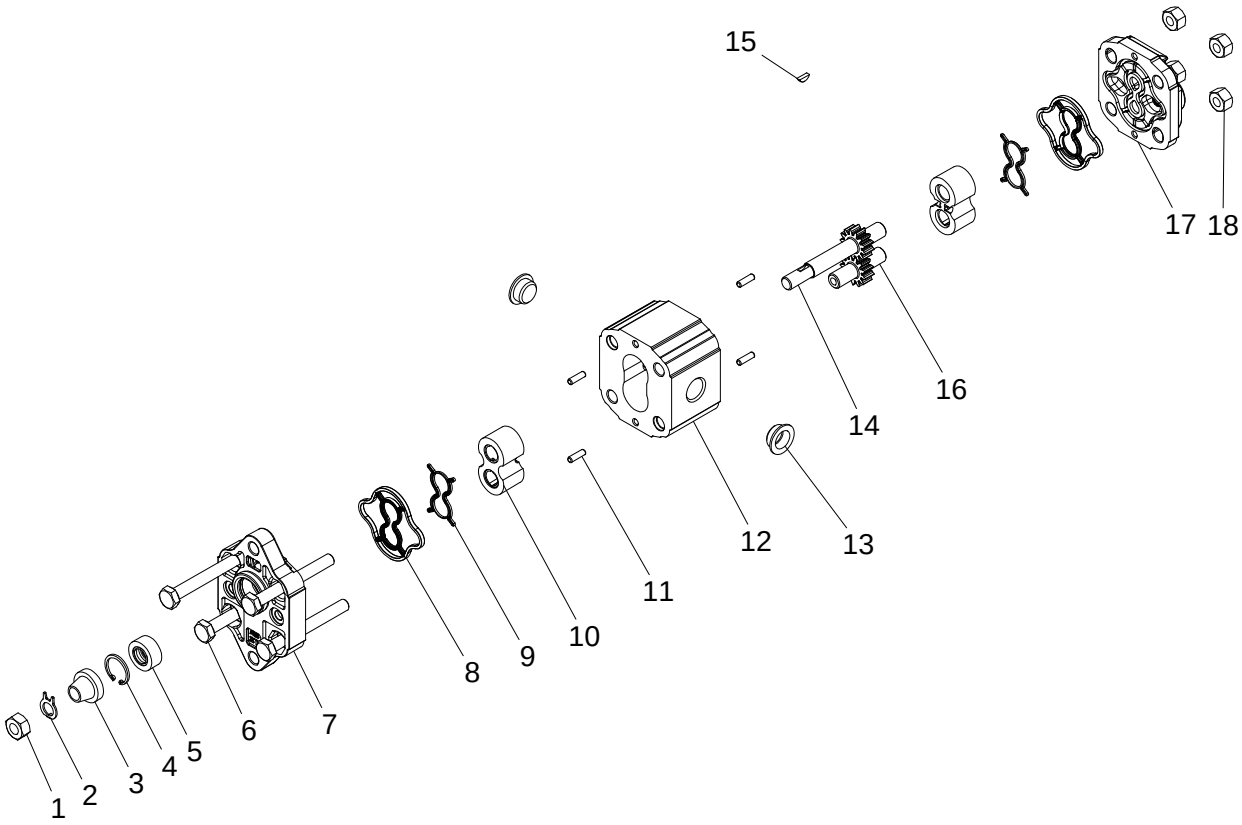
XV-0P

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

Reference	XP001

Example of ordering code:

X0P0602ABBA XV0P/0.76 - Ø22 /D - CI001 - 1/4" BSP - 1/4" BSP - .



Basic list				
Pos.	**Item description**	**Item**	**Size**	**Quantity**
1	WHITE GALVANISED NUT M7x1 H=5.5 CH=11 UNI 5588	**540.0035.A**	**0**	1
2	TAB WASHER ø7.25xø11	**100.0175.A**	**0**	1
3	KEY PROTECTION XV0 - XV1	**590.0015.A**	**0**	1
4	ø16 INTERNAL SNAP RING DIN 472	**560.0005.A**	**0**	1
5	OIL SEAL 8 x 16 x 6 TCV (BAB SL)	**690.0075.A**	**0**	1
6	WHITE GALVANISED SCREW TCCE M6x50 UNI 5931 8.8	**521.0006.A**	**L050**	4
7	XV0 ø22 FLANGE	**050.0176.A**	**0**	1
8	INJECTION-MOLDED SEAL XV0 (NBR 70 SH)	**050.0180.A**	**0**	2
9	XV0 BACK-UP ELEMENT FOR BALANCING	**050.0174.A**	**0**	2
10	XV0 BUSH H=14	**050.0144.A**	**0**	2
11	PIN ø3x9,8	**570.0005.A**	**0**	4
12	BODY W/THREAD 1/4" - 1/4" BSP - cc=0,76	**050.0029.W**	**H34**	1
13	PLASTIC PLUG ø12	**580.0001.A**	**D12**	2
14	CI001 - PARALLEL DRIVING GEAR	**050.0020.A**	**CC0,76**	1
15	WOODRUFF KEY ø7x2 H=2.6	**050.0124.A**	**0**	1
16	COND2 - PERFORATED DRIVEN GEAR	**050.0019.A**	**CC0,76**	1
17	STANDARD XV0 COVER	**050.0073.A**	**0**	1
18	WHITE GALVANISED NUT M6 H=5 UNI 5588	**540.0025.A**	**0**	4

ø22 "BH" Body-Shaped FLANGE

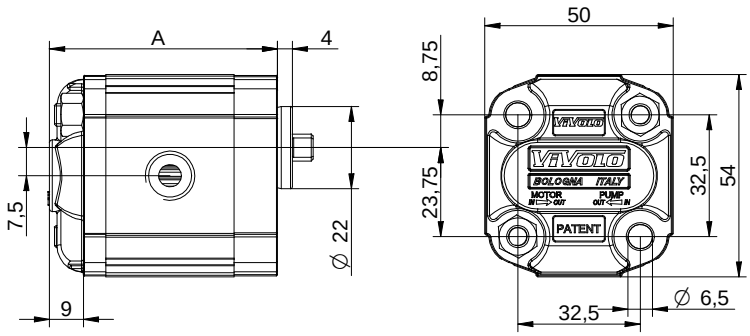
Table of variations

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

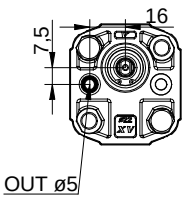
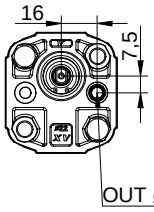
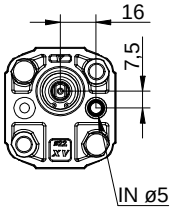
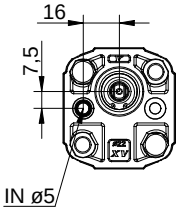
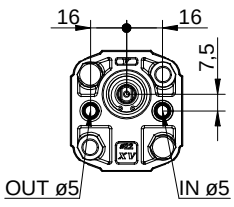
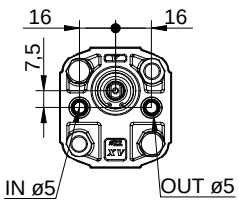
By filling in the missing data you can obtain the complete code of the product to be customised.

X	0	P						

Series		X	series XV
Group		0	group 0
Category		P	unidirectional pump
Displacement			
Flange			
Shaft			
Body	IN		
	OUT		
Cover			



ø22 "BH" Body-Shaped FLANGE

Left rotation	Code	Right rotation	Code
	11		12
	13		14
	15		16
	17		18

Shaft

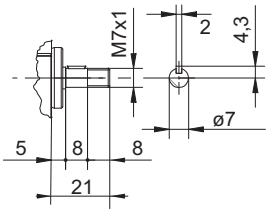
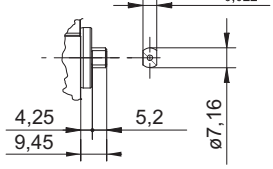
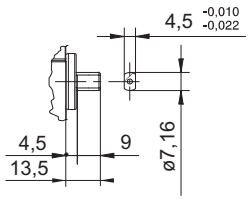
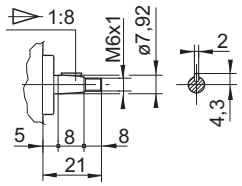
	Code		Code
CI001 - Parallel  T.2 = 2.1 [Nm]	A	CF001 - Milled shank  T.2 = 9.2 [Nm]	B
CF005 - Milled shank  T.2 = 8.4 [Nm]	F	CO001 - Tapered  T.2 = 21.9 [Nm]	E

Table of variations

Displacement

TYPE	CODE	A
		mm
XV-0P/0.17	**01**	55,8
XV-0P/0.25	**02**	56,4
XV-0P/0.45	**04**	58,0
XV-0P/0.57	**05**	59,0
XV-0P/0.76	**06**	60,5
XV-0P/0.98	**07**	62,0
XV-0P/1.27	**09**	64,5
XV-0P/1.52	**11**	66,5
XV-0P/2.30	**13**	72,5

Standard bodies

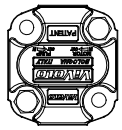
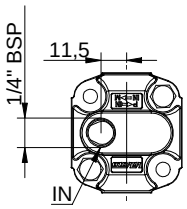
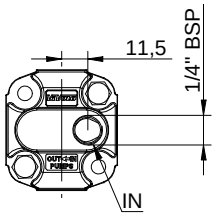
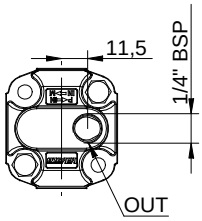
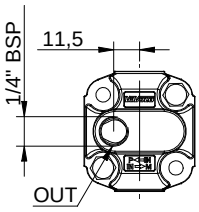
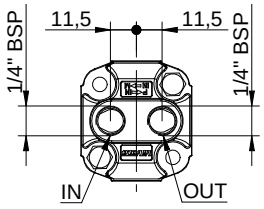
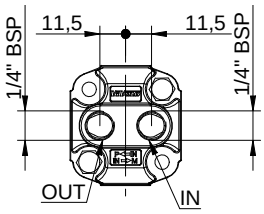
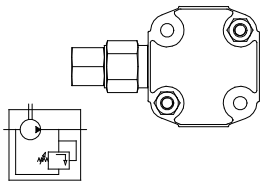
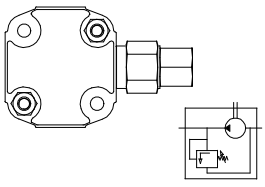
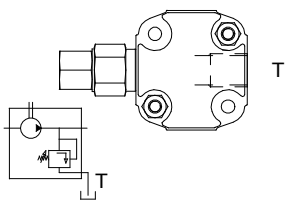
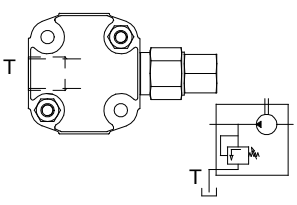
Displacement cm3/rev	Standard threads		
0,17	B - B	Z - B	Z - Z
0,25	B - B	Z - B	Z - Z
0,45	B - B	Z - B	Z - Z
0,57	B - B	Z - B	Z - Z
0,76	B - B	Z - B	Z - Z
0,98	B - B	Z - B	Z - Z
1,27	B - B	Z - B	Z - Z
1,52	B - B	Z - B	Z - Z
2,30	B - B	Z - B	Z - Z

Table showing standard flange and thread combinations available in stock

Body (threads/flanges)

1/8" BSP	A	1/4" BSP	B	3/8" BSP	C
M10x1	D	M12x1	E	M14x1	F
M16x1	G	M5x0.8	H	M5x0.8	I
Closed body	Z				

Cover

Left rotation	Right rotation	Code
		A
		B
		C
		D
 Internal drainage	 Internal drainage	N
 External drainage	 External drainage	O

unidirectional pump - series XV

XV-0P

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

X	0	P	06	12	B	B	B	A

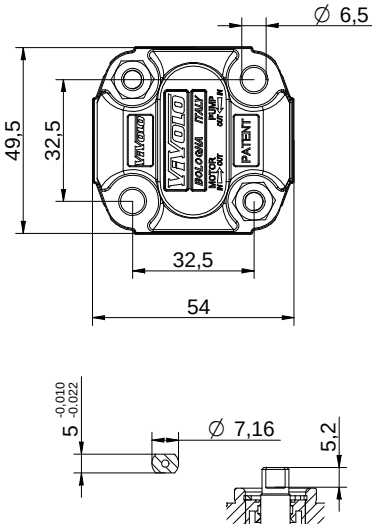
Series		X	series XV
Group		0	group 0
Category		P	unidirectional pump
Displacement		06	0.76
Flange		12	Ø22 BH right rotation
Shaft		B	CF001 - Milled shank ø7 - thk.5
Body	IN	B	inlet - 1/4" GAS
	OUT	B	outlet - 1/4" GAS
Cover		A	standard

Reference	XP012

Technical data table

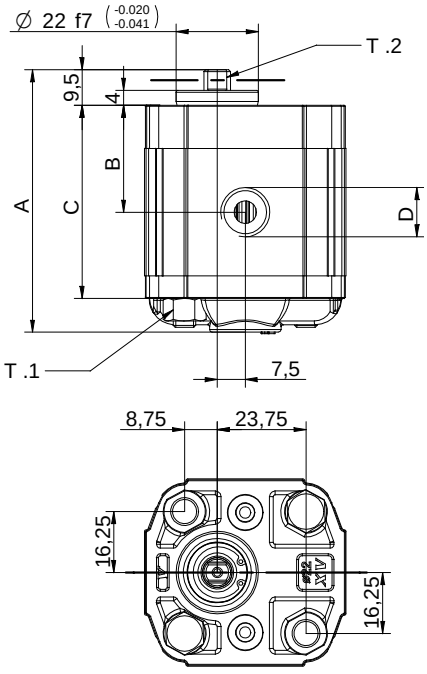
TYPE	Displacement	Max. Pressure		CODE	
	cm3/rev	P1 bar	P3 bar	Left rotation	Right rotation
XV-0P/0.17	0,16	220	260	X 0 P 01 11 B B B A	X 0 P 01 12 B B B A
XV-0P/0.25	0,24	220	260	X 0 P 02 11 B B B A	X 0 P 02 12 B B B A
XV-0P/0.45	0,45	220	280	X 0 P 04 11 B B B A	X 0 P 04 12 B B B A
XV-0P/0.57	0,56	220	280	X 0 P 05 11 B B B A	X 0 P 05 12 B B B A
XV-0P/0.76	0,75	220	280	X 0 P 06 11 B B B A	X 0 P 06 12 B B B A
XV-0P/0.98	0,92	220	280	X 0 P 07 11 B B B A	X 0 P 07 12 B B B A
XV-0P/1.27	1,26	220	280	X 0 P 09 11 B B B A	X 0 P 09 12 B B B A
XV-0P/1.52	1,48	220	280	X 0 P 11 11 B B B A	X 0 P 11 12 B B B A
XV-0P/2.30	2,28	190	210	X 0 P 13 11 B B B A	X 0 P 13 12 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	A	B	C	D	D
	kg	mm	mm	mm	IN	OUT
XV-0P/0.17	0,400	55,8	26,2	46,8	1/4" BSPP	1/4" BSPP
XV-0P/0.25	0,410	56,4	26,5	47,4	1/4" BSPP	1/4" BSPP
XV-0P/0.45	0,420	58,0	27,3	49,0	1/4" BSPP	1/4" BSPP
XV-0P/0.57	0,430	59,0	27,8	50,0	1/4" BSPP	1/4" BSPP
XV-0P/0.76	0,440	60,5	28,5	51,5	1/4" BSPP	1/4" BSPP
XV-0P/0.98	0,460	62,0	29,3	53,0	1/4" BSPP	1/4" BSPP
XV-0P/1.27	0,480	64,5	30,5	55,5	1/4" BSPP	1/4" BSPP
XV-0P/1.52	0,500	66,5	31,5	57,5	1/4" BSPP	1/4" BSPP
XV-0P/2.30	0,560	72,5	34,5	63,5	1/4" BSPP	1/4" BSPP



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

unidirectional pump - series XV

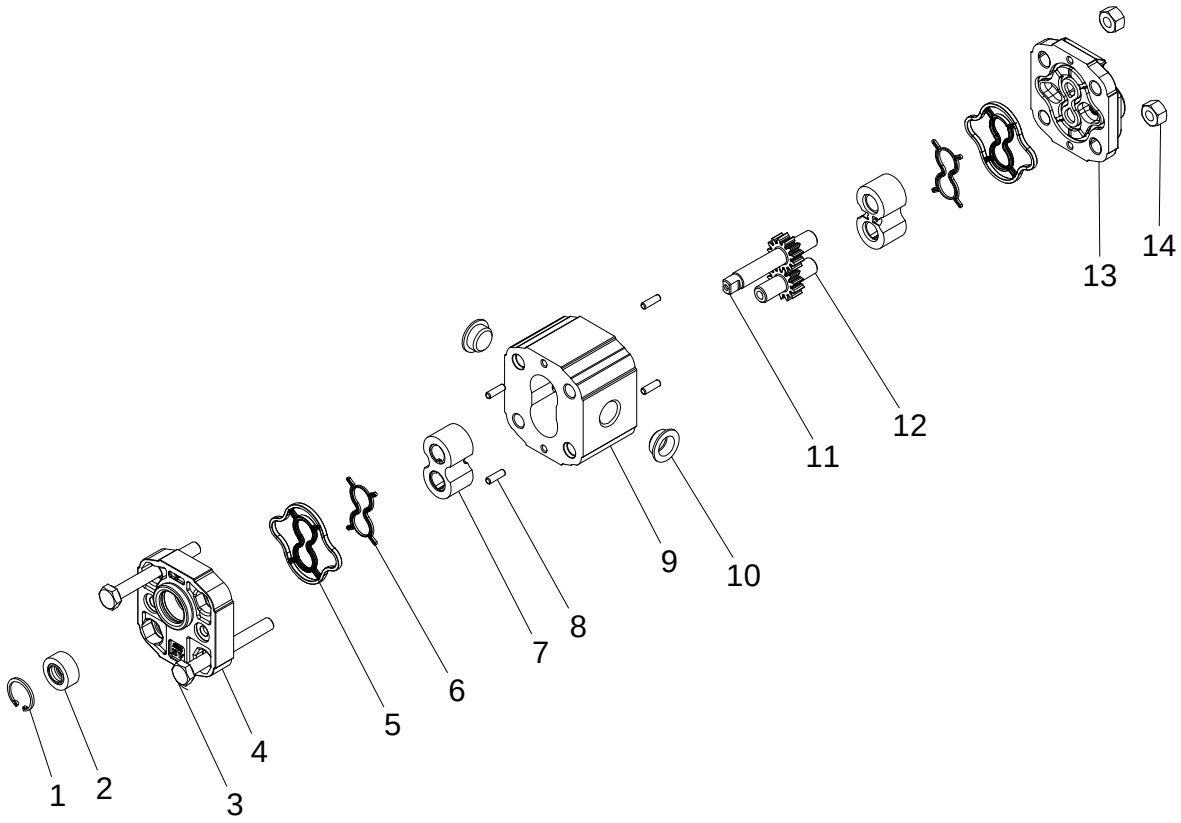
XV-0P

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

Reference	XP012

Example of ordering code:

X0P0612BBBA XV0P/0.76 - Ø22 BH /D - CF001 - 1/4" BSP - 1/4" BSP - .



Basic list

Pos.	Item description	Item	Size	Quantity
1	ø16 INTERNAL SNAP RING DIN 472	**560.0005.A**	**0**	1
2	OIL SEAL 8 x 16 x 6 TCV (BAB SL)	**690.0075.A**	**0**	1
3	WHITE GALVANISED SCREW TCCE M6x50 UNI 5931 8.8	**521.0006.A**	**L050**	2
4	XV0 ø22 BH-HY FLANGE	**050.0177.A**	**0**	1
5	INJECTION-MOLDED SEAL XV0 (NBR 70 SH)	**050.0180.A**	**0**	2
6	XV0 BACK-UP ELEMENT FOR BALANCING	**050.0174.A**	**0**	2
7	XV0 BUSH H=14	**050.0144.A**	**0**	2
8	PIN ø3x9,8	**570.0005.A**	**0**	4
9	BODY W/THREAD 1/4" - 1/4" BSP - cc=0,76	**050.0029.W**	**H34**	1
10	PLASTIC PLUG ø12	**580.0001.A**	**D12**	2
11	CF001 - DRIVING GEAR MILLED SHANK	**050.0021.A**	**CC0,76**	1
12	COND2 - PERFORATED DRIVEN GEAR	**050.0019.A**	**CC0,76**	1
13	STANDARD XV0 COVER	**050.0073.A**	**0**	1
14	WHITE GALVANISED NUT M6 H=5 UNI 5588	**540.0025.A**	**0**	2

Table of variations

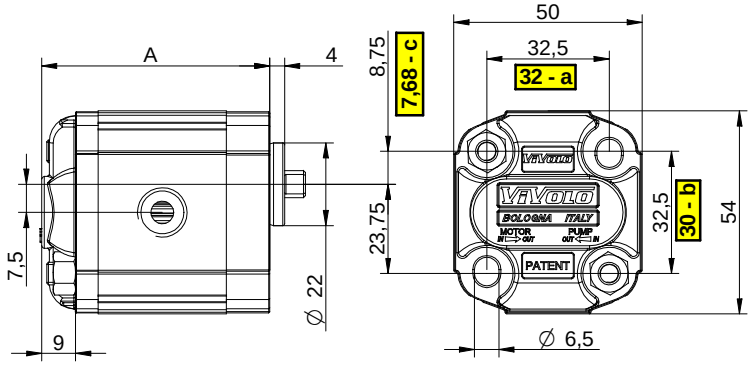
These two pages provide an overview of all the possible variations for customising a pump with a ø22 HY body-Shaped flange.

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

X	0	P						

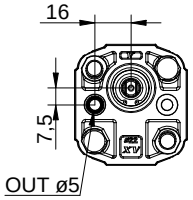
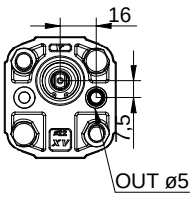
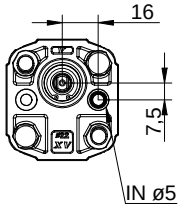
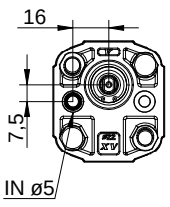
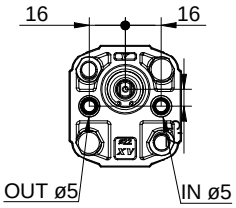
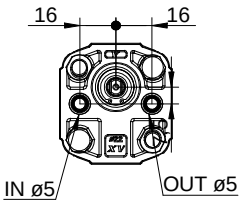
Series		X
Group		0
Category		P
Displacement		
Flange		
Shaft		
Body	IN	
	OUT	
Cover		

series XV
group 0
unidirectional pump



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

ø22 "HY" Body-Shaped FLANGE

Left rotation	Code	Right rotation	Code
	21		22
	23		24
	25		26
	27		28

Shaft

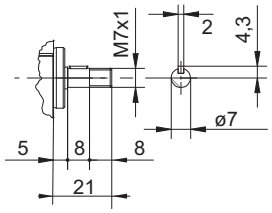
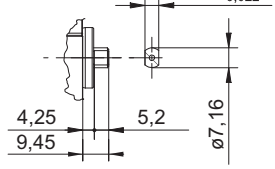
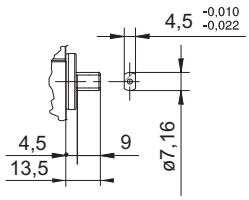
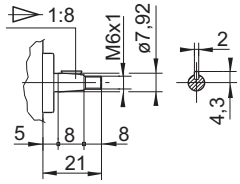
	Code		Code
CI001 - Parallel  T.2 = 2.1 [Nm]	A	CF001 - Milled shank  T.2 = 9.2 [Nm]	B
CF005 - Milled shank  T.2 = 8.4 [Nm]	F	CO001 - Tapered  T.2 = 21.9 [Nm]	E

Table of variations

Displacement

TYPE	CODE	A
		mm
XV-0P/0.17	**01**	55,8
XV-0P/0.25	**02**	56,4
XV-0P/0.45	**04**	58,0
XV-0P/0.57	**05**	59,0
XV-0P/0.76	**06**	60,5
XV-0P/0.98	**07**	62,0
XV-0P/1.27	**09**	64,5
XV-0P/1.52	**11**	66,5
XV-0P/2.30	**13**	72,5

Standard bodies

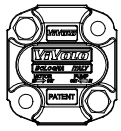
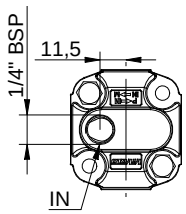
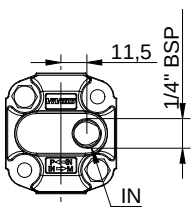
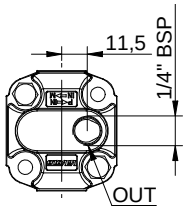
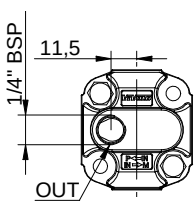
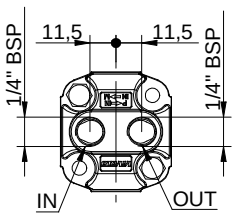
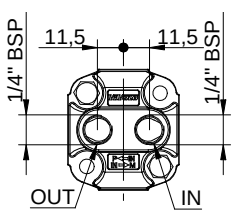
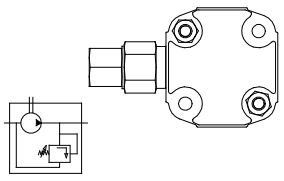
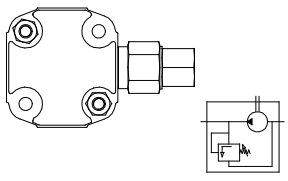
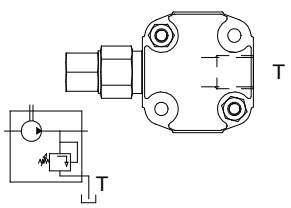
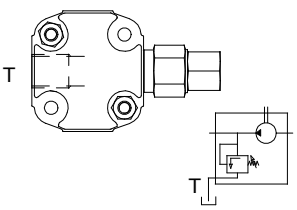
Displacement cm3/rev	Standard threads		
0,17	B - B	Z - B	Z - Z
0,25	B - B	Z - B	Z - Z
0,45	B - B	Z - B	Z - Z
0,57	B - B	Z - B	Z - Z
0,76	B - B	Z - B	Z - Z
0,98	B - B	Z - B	Z - Z
1,27	B - B	Z - B	Z - Z
1,52	B - B	Z - B	Z - Z
2,30	B - B	Z - B	Z - Z

Table showing standard flange and thread combinations available in stock

Body (threads/flanges)

1/8" BSP	A	1/4" BSP	B	3/8" BSP	C
M10x1	D	M12x1	E	M14x1	F
M16x1	G	M5x0.8	H	M5x0.8	I
Closed body	Z				

Cover

Left rotation	Right rotation	Code
		A
		B
		C
		D
 Internal drainage	 Internal drainage	N
 External drainage	 External drainage	O

unidirectional pump - series XV

XV-0P

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

X	0	P	06	22	B	B	B	A

Series		X	series XV
Group		0	group 0
Category		P	unidirectional pump
Displacement		06	0.76
Flange		22	Ø22 HY right rotation
Shaft		B	CF001 - Milled shank ø7 - thk.5
Body	IN	B	inlet - 1/4" GAS
	OUT	B	outlet - 1/4" GAS
Cover		A	standard

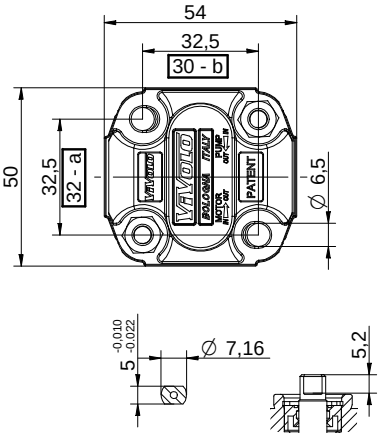
Reference **XP017**

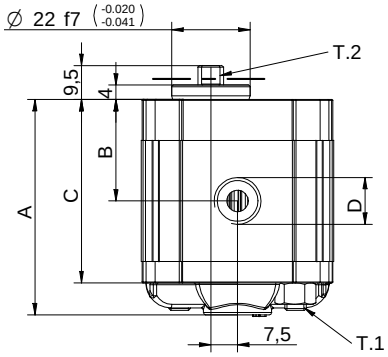
Technical data table

TYPE	Displacement	Max. Pressure		CODE	
	cm3/rev	P1 bar	P3 bar	Left rotation	Right rotation
XV-0P/0.17	0,16	220	260	X 0 P 01 21 B B B A	X 0 P 01 22 B B B A
XV-0P/0.25	0,24	220	260	X 0 P 02 21 B B B A	X 0 P 02 22 B B B A
XV-0P/0.45	0,45	220	280	X 0 P 04 21 B B B A	X 0 P 04 22 B B B A
XV-0P/0.57	0,56	220	280	X 0 P 05 21 B B B A	X 0 P 05 22 B B B A
XV-0P/0.76	0,75	220	280	X 0 P 06 21 B B B A	X 0 P 06 22 B B B A
XV-0P/0.98	0,92	220	280	X 0 P 07 21 B B B A	X 0 P 07 22 B B B A
XV-0P/1.27	1,26	220	280	X 0 P 09 21 B B B A	X 0 P 09 22 B B B A
XV-0P/1.52	1,48	220	280	X 0 P 11 21 B B B A	X 0 P 11 22 B B B A
XV-0P/2.30	2,28	190	210	X 0 P 13 21 B B B A	X 0 P 13 22 B B B A

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

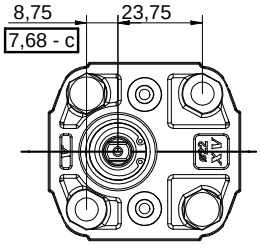
For heavy-duty applications, it is recommended to check the admissible torque of the shaft





Dimensions table

TYPE	Weight	A	B	C	D	D
	kg	mm	mm	mm	IN	OUT
XV-0P/0.17	0,400	55,8	26,2	46,8	1/4" BSPP	1/4" BSPP
XV-0P/0.25	0,410	56,4	26,5	47,4	1/4" BSPP	1/4" BSPP
XV-0P/0.45	0,420	58,0	27,3	49,0	1/4" BSPP	1/4" BSPP
XV-0P/0.57	0,430	59,0	27,8	50,0	1/4" BSPP	1/4" BSPP
XV-0P/0.76	0,440	60,5	28,5	51,5	1/4" BSPP	1/4" BSPP
XV-0P/0.98	0,460	62,0	29,3	53,0	1/4" BSPP	1/4" BSPP
XV-0P/1.27	0,480	64,5	30,5	55,5	1/4" BSPP	1/4" BSPP
XV-0P/1.52	0,500	66,5	31,5	57,5	1/4" BSPP	1/4" BSPP
XV-0P/2.30	0,560	72,5	34,5	63,5	1/4" BSPP	1/4" BSPP



07/12/04 X0P0622BBBA.dft

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

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

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

unidirectional pump - series XV

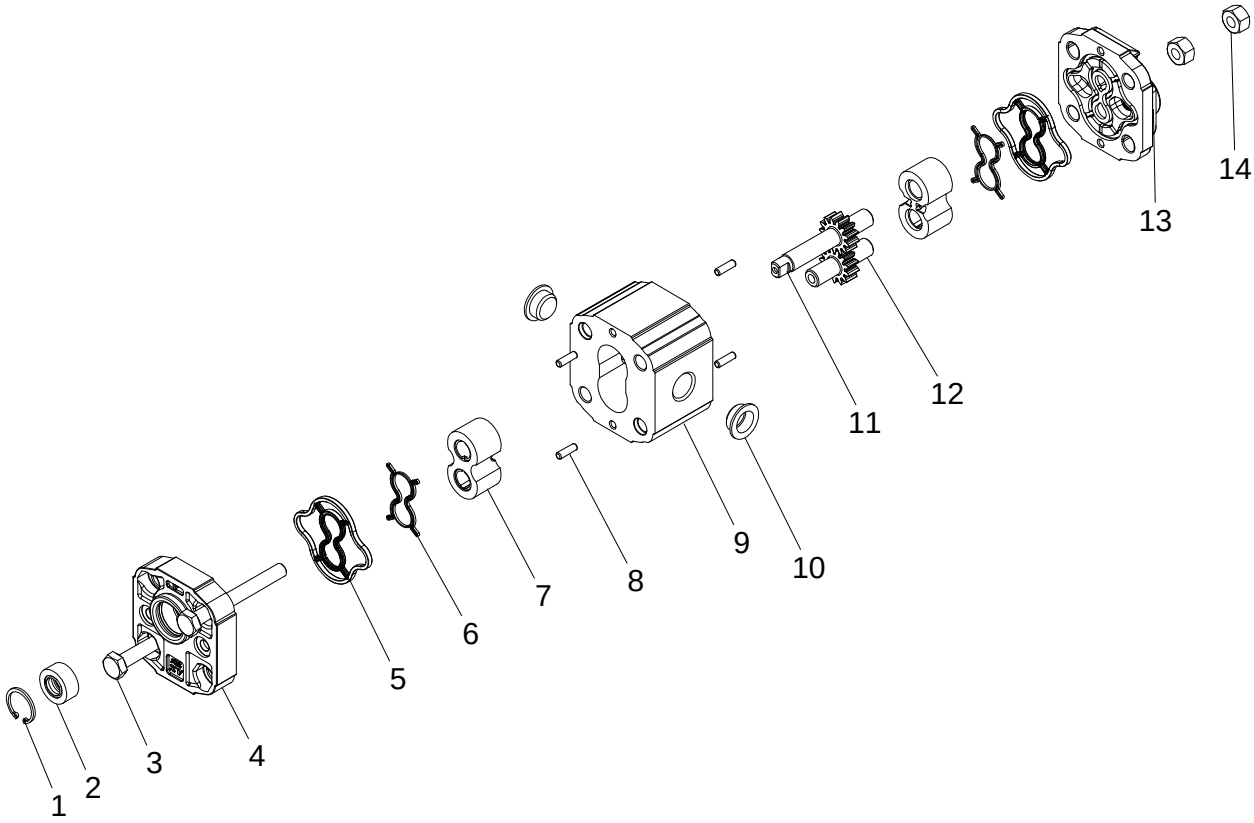
XV-0P

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

Reference	XP017

Example of ordering code:

X0P0622BBBA XV0P/0.76 - Ø22 HY /D - CF001 - 1/4" BSP - 1/4" BSP - .



Basic list

Pos.	Item description	Item	Size	Quantity
1	ø16 INTERNAL SNAP RING DIN 472	**560.0005.A**	**0**	1
2	OIL SEAL 8 x 16 x 6 TCV (BAB SL)	**690.0075.A**	**0**	1
3	WHITE GALVANISED SCREW TCCE M6x50 UNI 5931 8.8	**521.0006.A**	**L050**	2
4	XV0 ø22 BH-HY FLANGE	**050.0177.A**	**0**	1
5	INJECTION-MOLDED SEAL XV0 (NBR 70 SH)	**050.0180.A**	**0**	2
6	XV0 BACK-UP ELEMENT FOR BALANCING	**050.0174.A**	**0**	2
7	XV0 BUSH H=14	**050.0144.A**	**0**	2
8	PIN ø3x9,8	**570.0005.A**	**0**	4
9	BODY W/THREAD 1/4" - 1/4" BSP - cc=0,76	**050.0029.W**	**H34**	1
10	PLASTIC PLUG ø12	**580.0001.A**	**D12**	2
11	CF001 - DRIVING GEAR MILLED SHANK	**050.0021.A**	**CC0,76**	1
12	COND2 - PERFORATED DRIVEN GEAR	**050.0019.A**	**CC0,76**	1
13	STANDARD XV0 COVER	**050.0073.A**	**0**	1
14	WHITE GALVANISED NUT M6 H=5 UNI 5588	**540.0025.A**	**0**	2

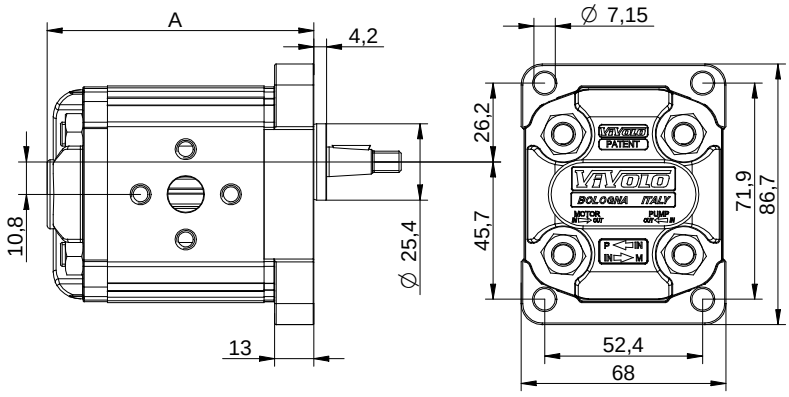
Table of variations

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

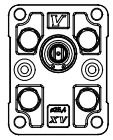
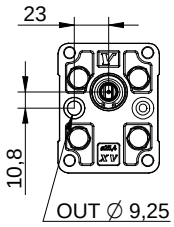
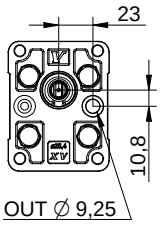
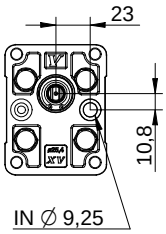
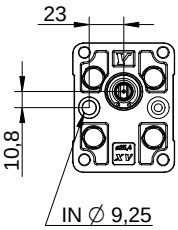
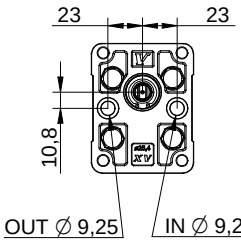
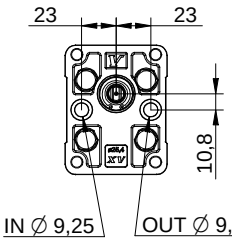
By filling in the missing data you can obtain the complete code of the product to be customised.

X	1	P						

Series		X	series XV
Group		1	group 1
Category		P	unidirectional pump
Displacement			
Flange			
Shaft			
Body	IN		
	OUT		
Cover			



ø25.4 FLANGE

Left rotation	Code	Right rotation	Code
	01		02
	03		04
	05		06
	07		08

Shaft

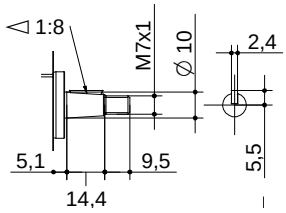
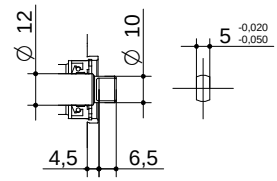
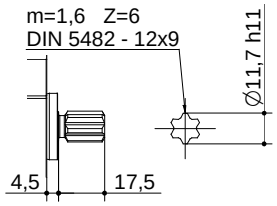
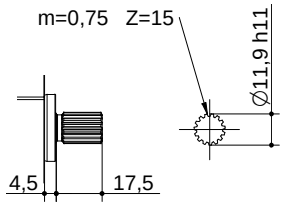
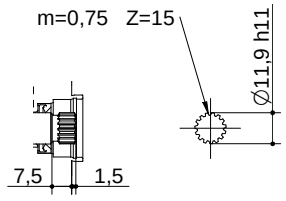
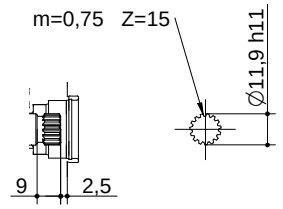
	Code		Code
CO001 - Tapered  T.2 = 43 [Nm]	F	CF002 - Milled shank  T.2 = 13.8 [Nm]	D
SCF04 - Splined  T.2 = 22.6 [Nm]	J	SCF02 - Splined  T.2 = 42.8 [Nm]	L
SCF01 - Splined  T.2 = 42.8 [Nm]	Q	SCF03 - Splined  T.2 = 42.8 [Nm]	R

Table of variations

Displacement

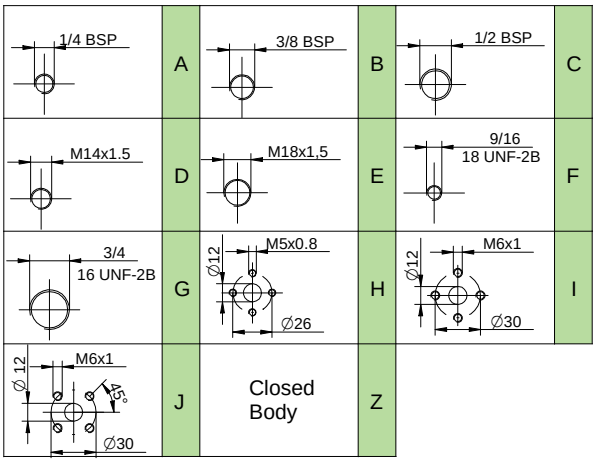
TYPE	CODE	A
		mm
XV-1P/0.9	**16**	78,1
XV-1P/1.2	**17**	79,0
XV-1P/1.7	**18**	80,5
XV-1P/2.2	**20**	82,5
XV-1P/2.6	**21**	84,5
XV-1P/3.2	**23**	86,5
XV-1P/3.8	**25**	88,5
XV-1P/4.3	**27**	90,5
XV-1P/4.9	**29**	93,5
XV-1P/5.9	**31**	97,0
XV-1P/6.5	**32**	98,5
XV-1P/7.8	**34**	103,5
XV-1P/9.8	**36**	112,5

Standard bodies

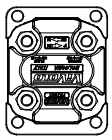
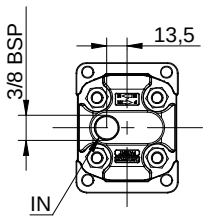
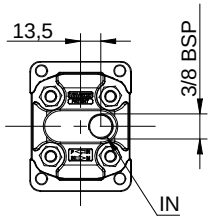
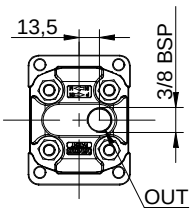
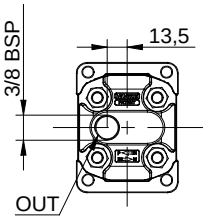
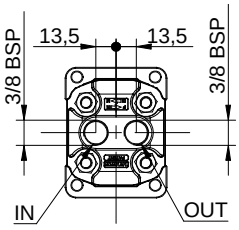
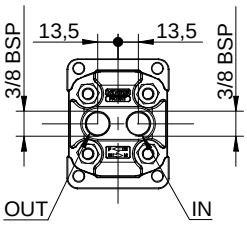
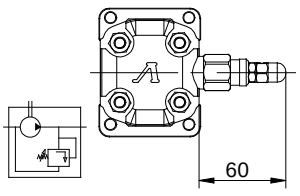
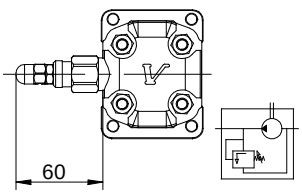
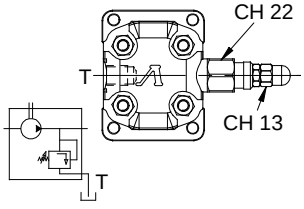
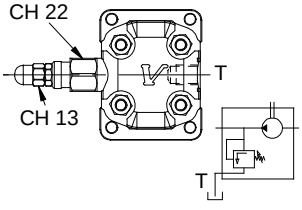
Displacement	Standard threads					
cm3/rev						
0.9	I - I	B - B	J - J	B - Z	Z - Z	G - F
1.2	I - I	B - B	J - J	B - Z	Z - Z	G - F
1.7	I - I	B - B	J - J	B - Z	Z - Z	G - F
2.2	I - I	B - B	J - J	B - Z	Z - Z	G - F
2.6	I - I	B - B	J - J	B - Z	Z - Z	G - F
3.2	I - I	B - B	J - J	B - Z	Z - Z	G - F
3.8	I - I	B - 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)



Cover

Left rotation	Right rotation	Code
		A
		B
		C
		D
 Internal drainage	 Internal drainage	N
 External drainage	 External drainage	O

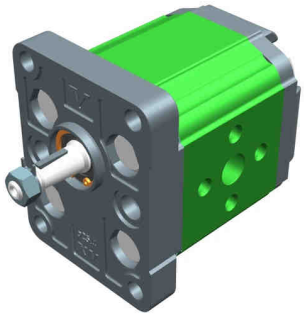
unidirectional pump - series XV

XV-1P

STANDARD EUROPEAN PUMP
ø25.4 FLANGE - TAPER SHAFT

X	1	P	25	02	F	I	I	A

Series		X	series XV
Group		1	group 1
Category		P	unidirectional pump
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	I	inlet - Ø30 Ø12 M6
	OUT	I	outlet - Ø30 Ø12 M6
Cover		A	standard



Reference **XP101**

Technical data table

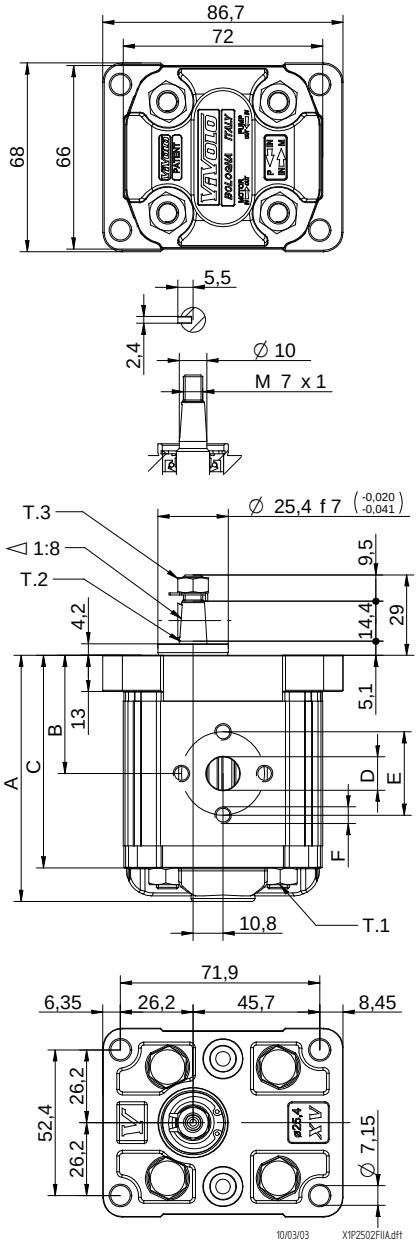
TYPE	Displacement	Max. Pressure	CODE	
	cm3/rev	P1 bar	P3 bar	Left rotation / Right rotation
XV-1P/0.9	0,91	240	280	X 1 P 16 01 F I I A / X 1 P 16 02 F I I A
XV-1P/1.2	1,17	250	290	X 1 P 17 01 F I I A / X 1 P 17 02 F I I A
XV-1P/1.7	1,56	250	290	X 1 P 18 01 F I I A / X 1 P 18 02 F I I A
XV-1P/2.2	2,08	250	290	X 1 P 20 01 F I I A / X 1 P 20 02 F I I A
XV-1P/2.6	2,60	250	300	X 1 P 21 01 F I I A / X 1 P 21 02 F I I A
XV-1P/3.2	3,12	250	300	X 1 P 23 01 F I I A / X 1 P 23 02 F I I A
XV-1P/3.8	3,64	250	300	X 1 P 25 01 F I I A / X 1 P 25 02 F I I A
XV-1P/4.3	4,16	250	300	X 1 P 27 01 F I I A / X 1 P 27 02 F I I A
XV-1P/4.9	4,94	250	300	X 1 P 29 01 F I I A / X 1 P 29 02 F I I A
XV-1P/5.9	5,85	250	300	X 1 P 31 01 F I I A / X 1 P 31 02 F I I A
XV-1P/6.5	6,50	250	300	X 1 P 32 01 F I I A / X 1 P 32 02 F I I A
XV-1P/7.8	7,54	220	260	X 1 P 34 01 F I I A / X 1 P 34 02 F I I A
XV-1P/9.8	9,88	190	230	X 1 P 36 01 F I I A / X 1 P 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	A	B	C	D	E	F	D	E	F
	kg	mm	mm	mm	IN			OUT		
XV-1P/0.9	0,950	78,1	37,3	66,1	ø12	30	M6x1	ø12	30	M6x1
XV-1P/1.2	0,970	79,0	37,8	67,0	ø12	30	M6x1	ø12	30	M6x1
XV-1P/1.7	1,010	80,5	38,5	68,5	ø12	30	M6x1	ø12	30	M6x1
XV-1P/2.2	1,030	82,5	39,5	70,5	ø12	30	M6x1	ø12	30	M6x1
XV-1P/2.6	1,060	84,5	40,5	72,5	ø12	30	M6x1	ø12	30	M6x1
XV-1P/3.2	1,090	86,5	41,5	74,5	ø12	30	M6x1	ø12	30	M6x1
XV-1P/3.8	1,120	88,5	42,5	76,5	ø12	30	M6x1	ø12	30	M6x1
XV-1P/4.3	1,170	90,5	43,5	78,5	ø12	30	M6x1	ø12	30	M6x1
XV-1P/4.9	1,200	93,5	45,0	81,5	ø12	30	M6x1	ø12	30	M6x1
XV-1P/5.9	1,260	97,0	46,8	85,0	ø12	30	M6x1	ø12	30	M6x1
XV-1P/6.5	1,300	98,5	48,0	86,5	ø12	30	M6x1	ø12	30	M6x1
XV-1P/7.8	1,360	103,5	50,0	91,5	ø12	30	M6x1	ø12	30	M6x1
XV-1P/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

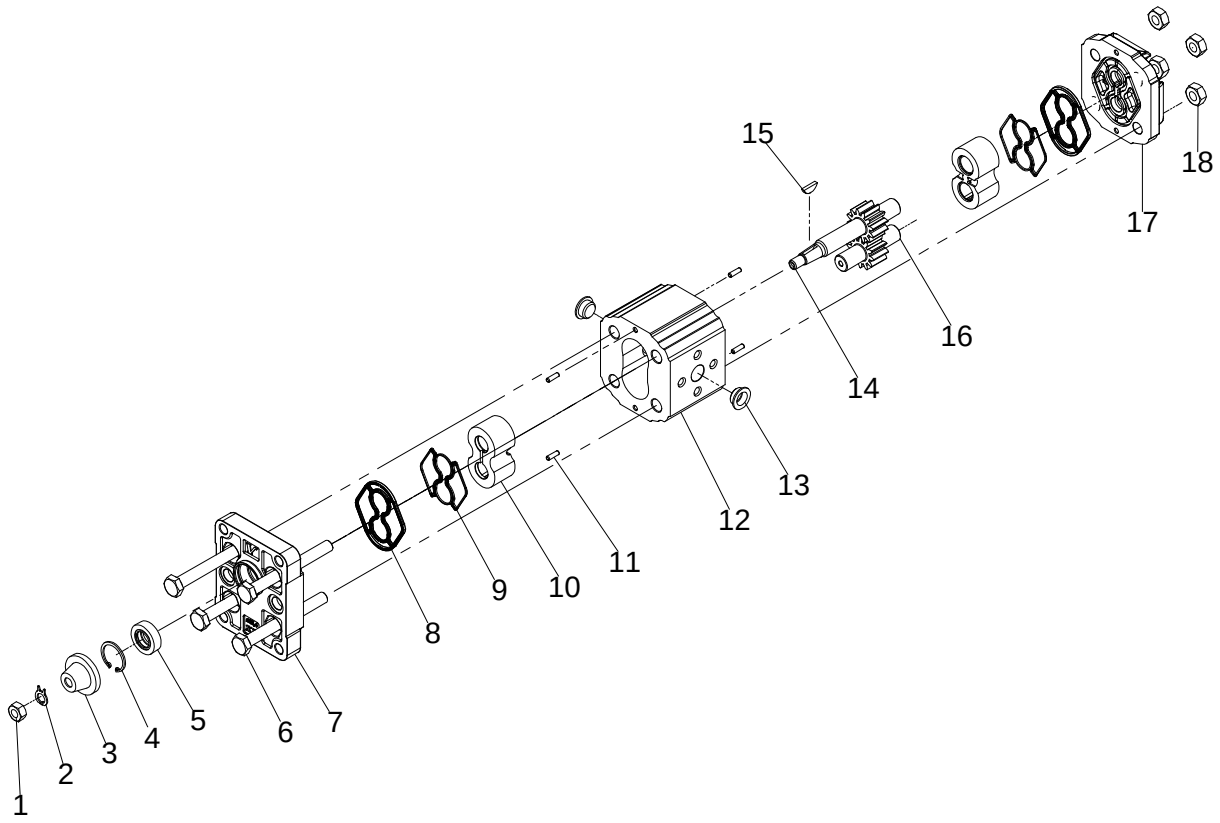
T.2 = 43 [Nm] - admissible shaft torque (N.B. When choosing a shaft, always check the admissible torque).

STANDARD EUROPEAN PUMP
ø25.4 FLANGE - TAPER SHAFT

Reference	XP101

Example of ordering code:

X1P2502FIIA XV1P/3.8 - Ø25.4 /D - CO001 - Ø30 M6 - Ø30 M6 - .



Basic list

Pos.	Item description	Item	Size	Quantity
1	WHITE GALVANISED NUT M7x1 H=5.5 CH=11 UNI 5588	**540.0035.A**	**0**	1
2	TAB WASHER ø7.25xø11	**100.0175.A**	**0**	1
3	KEY PROTECTION XV1	**590.0005.A**	**0**	1
4	ø22 INTERNAL SNAP RING DIN 472	**560.0010.A**	**0**	1
5	OIL SEAL 12 x 22 x 6/6.5 TCV (BAB SL)	**690.0020.A**	**0**	1
6	WHITE GALVANISED SCREW TE M8x75 UNI 5737 8.8	**531.0008.A**	**L075**	4
7	XV1 ø25,4 FLANGE	**100.0270.A**	**0**	1
8	INJECTION-MOLDED SEAL XV1 (NBR 70÷75 SH)	**100.0247.C**	**0**	2
9	XV1 BACK-UP ELEMENT FOR BALANCING	**100.0248.A**	**0**	2
10	XV1 BUSH H=19	**100.0501.A**	**0**	2
11	PIN ø3x9,8	**570.0005.A**	**0**	4
12	FLANGED BODY 30-M6 - 30-M6 - cc=3,8	**100.0020.A**	**H52**	1
13	PLASTIC PLUG ø12,5	**580.0001.A**	**D12,5**	2
14	CO001 - TAPERED 1÷8 DRIVING GEAR	**100.0035.A**	**CC3,8**	1
15	WOODRUFF KEY ø13x2,4 H=5	**100.0170.A**	**0**	1
16	COND2 - PERFORATED DRIVEN GEAR	**100.0023.A**	**CC3,8**	1
17	STANDARD XV1 COVER	**100.0268.A**	**0**	1
18	WHITE GALVANISED NUT M8 H=6 UNI 5588	**540.0040.A**	**0**	4

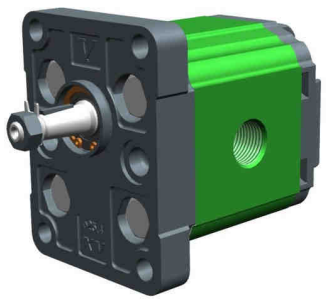
unidirectional pump - series XV

XV-1P

STANDARD EUROPEAN PUMP
ø25.4 FLANGE - TAPER SHAFT

X	1	P	25	02	F	B	B	A

Series		X	series XV
Group		1	group 1
Category		P	unidirectional pump
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	B	inlet - 3/8" GAS
	OUT	B	outlet - 3/8" GAS
Cover		A	standard



Reference **XP105**

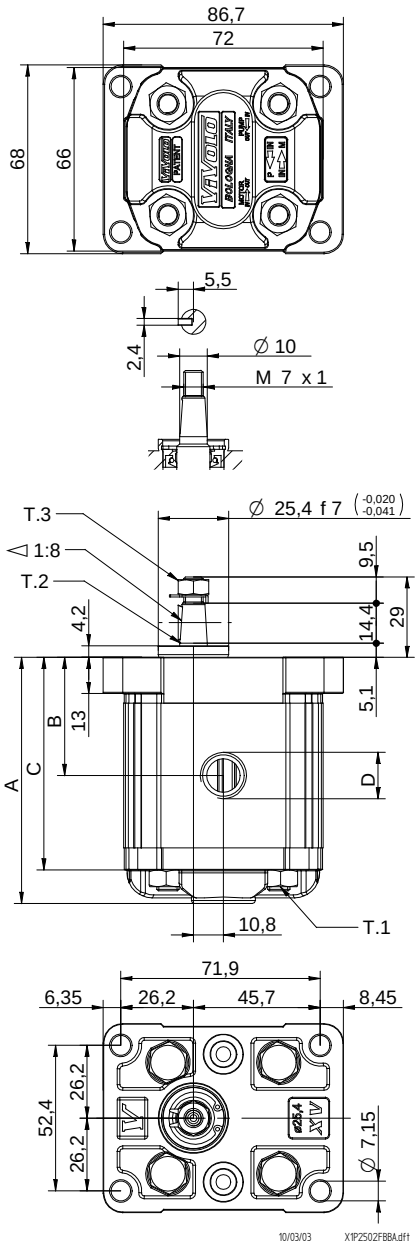
Technical data table

TYPE	Displacement	Max. Pressure	CODE	
	cm3/rev	P1 bar	P3 bar	Left rotation	Right rotation
XV-1P/0.9	0,91	240	280	X 1 P 16 01 F B B A	X 1 P 16 02 F B B A
XV-1P/1.2	1,17	250	290	X 1 P 17 01 F B B A	X 1 P 17 02 F B B A
XV-1P/1.7	1,56	250	290	X 1 P 18 01 F B B A	X 1 P 18 02 F B B A
XV-1P/2.2	2,08	250	290	X 1 P 20 01 F B B A	X 1 P 20 02 F B B A
XV-1P/2.6	2,60	250	300	X 1 P 21 01 F B B A	X 1 P 21 02 F B B A
XV-1P/3.2	3,12	250	300	X 1 P 23 01 F B B A	X 1 P 23 02 F B B A
XV-1P/3.8	3,64	250	300	X 1 P 25 01 F B B A	X 1 P 25 02 F B B A
XV-1P/4.3	4,16	250	300	X 1 P 27 01 F B B A	X 1 P 27 02 F B B A
XV-1P/4.9	4,94	250	300	X 1 P 29 01 F B B A	X 1 P 29 02 F B B A
XV-1P/5.9	5,85	250	300	X 1 P 31 01 F B B A	X 1 P 31 02 F B B A
XV-1P/6.5	6,50	250	300	X 1 P 32 01 F B B A	X 1 P 32 02 F B B A
XV-1P/7.8	7,54	220	260	X 1 P 34 01 F B B A	X 1 P 34 02 F B B A
XV-1P/9.8	9,88	190	230	X 1 P 36 01 F B B A	X 1 P 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	A	B	C	D	D
	kg	mm	mm	mm	IN	OUT
XV-1P/0.9	0,950	78,1	37,3	66,1	3/8" BSPP	3/8" BSPP
XV-1P/1.2	0,970	79,0	37,8	67,0	3/8" BSPP	3/8" BSPP
XV-1P/1.7	1,010	80,5	38,5	68,5	3/8" BSPP	3/8" BSPP
XV-1P/2.2	1,030	82,5	39,5	70,5	3/8" BSPP	3/8" BSPP
XV-1P/2.6	1,060	84,5	40,5	72,5	3/8" BSPP	3/8" BSPP
XV-1P/3.2	1,090	86,5	41,5	74,5	3/8" BSPP	3/8" BSPP
XV-1P/3.8	1,120	88,5	42,5	76,5	3/8" BSPP	3/8" BSPP
XV-1P/4.3	1,170	90,5	43,5	78,5	3/8" BSPP	3/8" BSPP
XV-1P/4.9	1,200	93,5	45,0	81,5	3/8" BSPP	3/8" BSPP
XV-1P/5.9	1,260	97,0	46,8	85,0	3/8" BSPP	3/8" BSPP
XV-1P/6.5	1,300	98,5	48,0	86,5	3/8" BSPP	3/8" BSPP
XV-1P/7.8	1,360	103,5	50,0	91,5	3/8" BSPP	3/8" BSPP
XV-1P/9.8	1,500	112,5	54,5	100,5	3/8" BSPP	3/8" BSPP

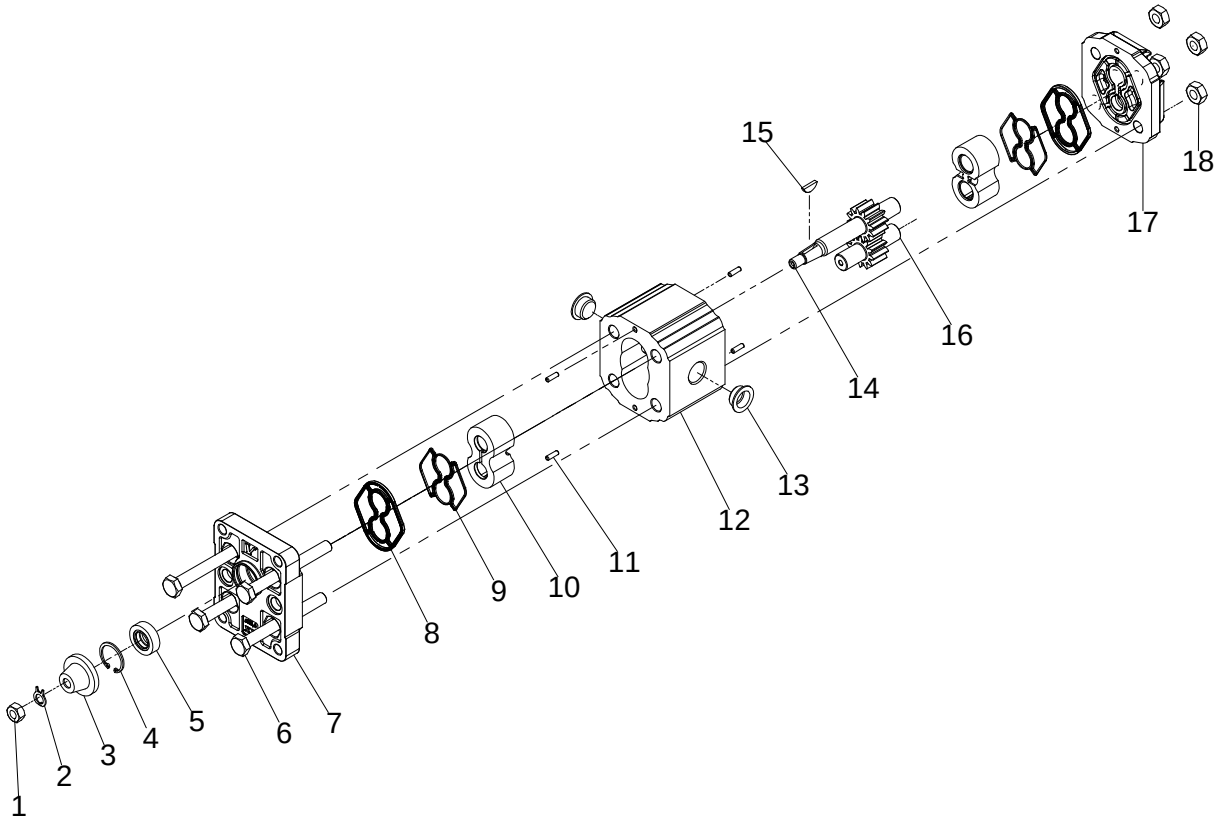


T.1 = 24.5÷29.4 [Nm] - screw tightening torque M8 T.3 = 11.5 [Nm] - torque wrench setting 11
T.2 = 43 [Nm] - admissible shaft torque (N.B. When choosing a shaft, always check the admissible torque).

Reference	XP105

Example of ordering code:

X1P2502FBBA XV1P/3.8 - Ø25.4 /D - CO001 - 3/8" BSP - 3/8" BSP - .



Basic list

Pos.	Item description	Item	Size	Quantity
1	WHITE GALVANISED NUT M7x1 H=5.5 CH=11 UNI 5588	**540.0035.A**	**0**	1
2	TAB WASHER ø7.25xø11	**100.0175.A**	**0**	1
3	KEY PROTECTION XV1	**590.0005.A**	**0**	1
4	ø22 INTERNAL SNAP RING DIN 472	**560.0010.A**	**0**	1
5	OIL SEAL 12 x 22 x 6/6.5 TCV (BAB SL)	**690.0020.A**	**0**	1
6	WHITE GALVANISED SCREW TE M8x75 UNI 5737 8.8	**531.0008.A**	**L075**	4
7	XV1 ø25,4 FLANGE	**100.0270.A**	**0**	1
8	INJECTION-MOLDED SEAL XV1 (NBR 70÷75 SH)	**100.0247.C**	**0**	2
9	XV1 BACK-UP ELEMENT FOR BALANCING	**100.0248.A**	**0**	2
10	XV1 BUSH H=19	**100.0501.A**	**0**	2
11	PIN ø3x9,8	**570.0005.A**	**0**	4
12	BODY W/THREAD 3/8" - 3/8" BSP - cc=3,8	**100.0067.A**	**H52**	1
13	PLASTIC PLUG ø15,5	**580.0001.A**	**D15,5**	2
14	CO001 - TAPERED 1÷8 DRIVING GEAR	**100.0035.A**	**CC3,8**	1
15	WOODRUFF KEY ø13x2,4 H=5	**100.0170.A**	**0**	1
16	COND2 - PERFORATED DRIVEN GEAR	**100.0023.A**	**CC3,8**	1
17	STANDARD XV1 COVER	**100.0268.A**	**0**	1
18	WHITE GALVANISED NUT M8 H=6 UNI 5588	**540.0040.A**	**0**	4

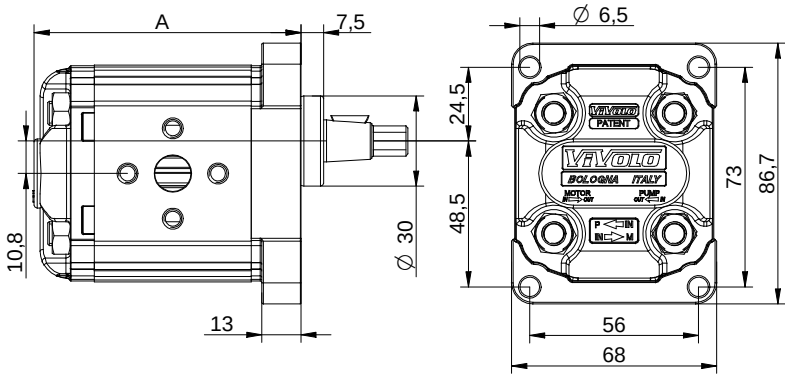
Table of variations

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

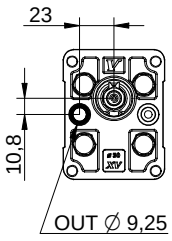
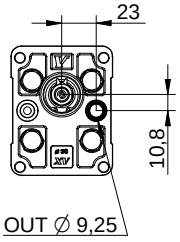
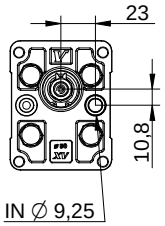
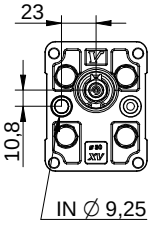
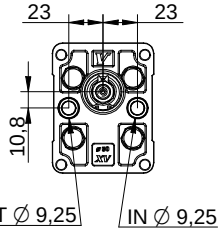
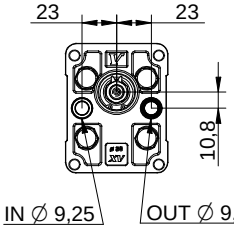
By filling in the missing data you can obtain the complete code of the product to be customised.

X	1	P						

Series		X	series XV
Group		1	group 1
Category		P	unidirectional pump
Displacement			
Flange			
Shaft			
Body	IN		
	OUT		
Cover			



ø30 FLANGE

Left rotation	Code	Right rotation	Code
	11		12
	13		14
	15		16
	17		18

Shaft

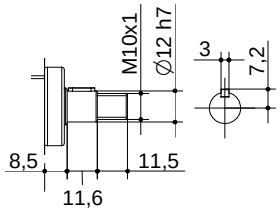
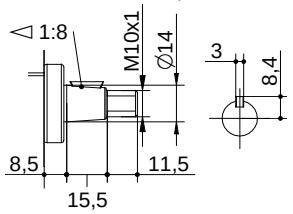
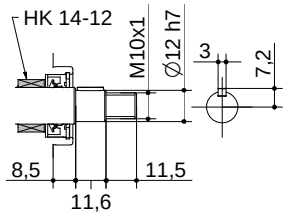
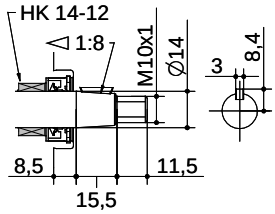
	Code		Code
CI001 - Parallel  T.2 = 25.8 [Nm]	A	CO002 - Tapered  T.2 = 119.8 [Nm]	G
CI001+HK - Parallel  T.2 = 25.8 [Nm]	P	CO002+HK - Tapered  T.2 = 119.8 [Nm]	O

Table of variations

Displacement

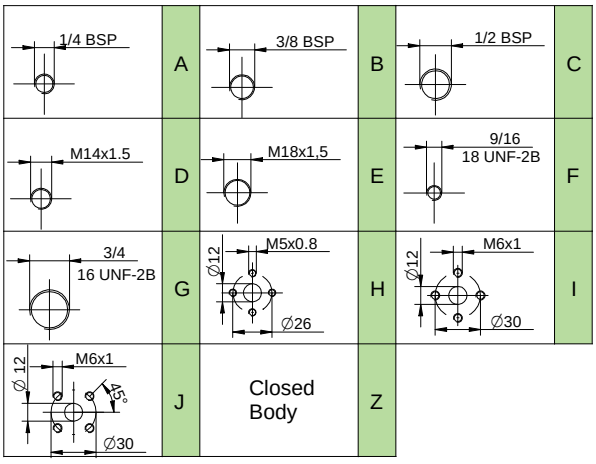
TYPE	CODE	A
		mm
XV-1P/0.9	**16**	78,1
XV-1P/1.2	**17**	79,0
XV-1P/1.7	**18**	80,5
XV-1P/2.2	**20**	82,5
XV-1P/2.6	**21**	84,5
XV-1P/3.2	**23**	86,5
XV-1P/3.8	**25**	88,5
XV-1P/4.3	**27**	90,5
XV-1P/4.9	**29**	93,5
XV-1P/5.9	**31**	97,0
XV-1P/6.5	**32**	98,5
XV-1P/7.8	**34**	103,5
XV-1P/9.8	**36**	112,5

Standard bodies

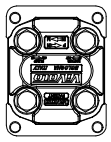
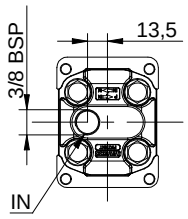
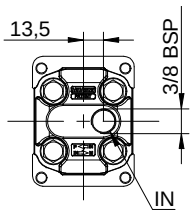
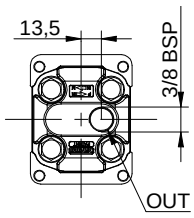
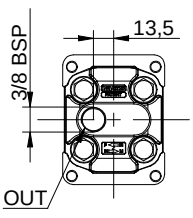
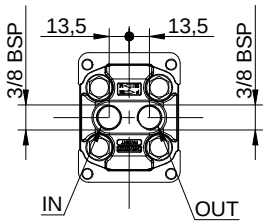
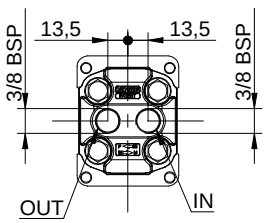
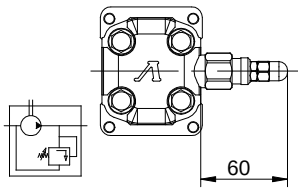
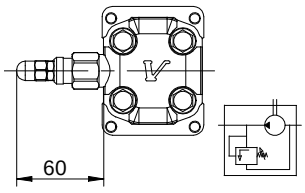
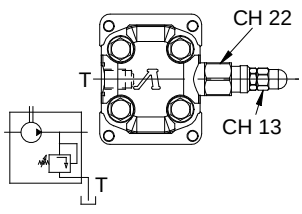
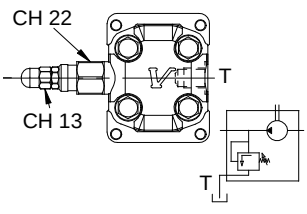
Displacement	Standard threads					
cm3/rev						
0.9	I - I	B - B	J - J	B - Z	Z - Z	G - F
1.2	I - I	B - B	J - J	B - Z	Z - Z	G - F
1.7	I - I	B - B	J - J	B - Z	Z - Z	G - F
2.2	I - I	B - B	J - J	B - Z	Z - Z	G - F
2.6	I - I	B - B	J - J	B - Z	Z - Z	G - F
3.2	I - I	B - B	J - J	B - Z	Z - Z	G - F
3.8	I - I	B - 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)



Cover

Left rotation	Right rotation	Code
		A
		B
		C
		D
		N
Internal drainage	Internal drainage	
		O
External drainage	External drainage	

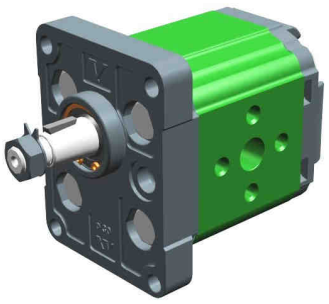
unidirectional pump - series XV

XV-1P

STANDARD PUMP
ø30 FLANGE - TAPER SHAFT

X	1	P	25	12	G	I	I	A

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



Reference **XP113**

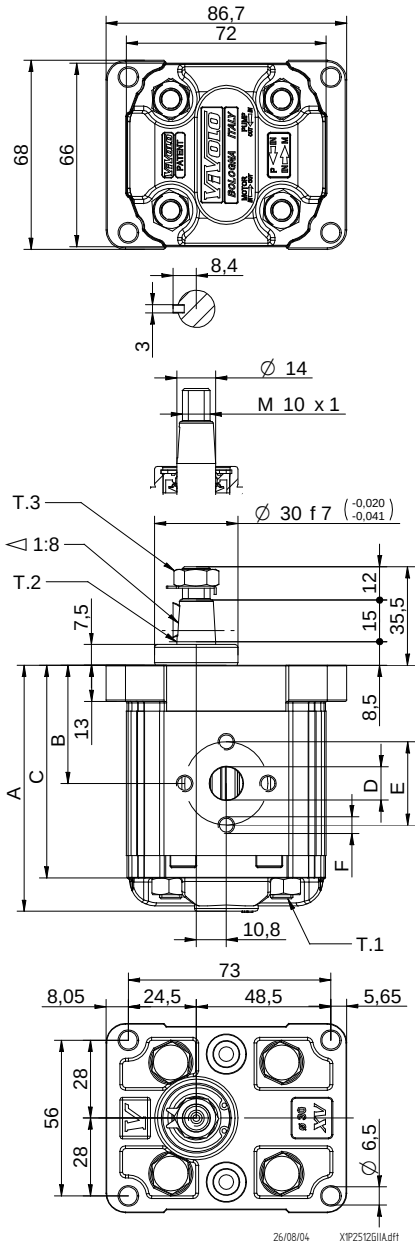
Technical data table

TYPE	Displacement	Max. Pressure	CODE	
	cm3/rev	P1 bar	P3 bar	Left rotation	Right rotation
XV-1P/0.9	0,91	240	280	X 1 P 16 11 G I I A	X 1 P 16 12 G I I A
XV-1P/1.2	1,17	250	290	X 1 P 17 11 G I I A	X 1 P 17 12 G I I A
XV-1P/1.7	1,56	250	290	X 1 P 18 11 G I I A	X 1 P 18 12 G I I A
XV-1P/2.2	2,08	250	290	X 1 P 20 11 G I I A	X 1 P 20 12 G I I A
XV-1P/2.6	2,60	250	300	X 1 P 21 11 G I I A	X 1 P 21 12 G I I A
XV-1P/3.2	3,12	250	300	X 1 P 23 11 G I I A	X 1 P 23 12 G I I A
XV-1P/3.8	3,64	250	300	X 1 P 25 11 G I I A	X 1 P 25 12 G I I A
XV-1P/4.3	4,16	250	300	X 1 P 27 11 G I I A	X 1 P 27 12 G I I A
XV-1P/4.9	4,94	250	300	X 1 P 29 11 G I I A	X 1 P 29 12 G I I A
XV-1P/5.9	5,85	250	300	X 1 P 31 11 G I I A	X 1 P 31 12 G I I A
XV-1P/6.5	6,50	250	300	X 1 P 32 11 G I I A	X 1 P 32 12 G I I A
XV-1P/7.8	7,54	220	260	X 1 P 34 11 G I I A	X 1 P 34 12 G I I A
XV-1P/9.8	9,88	190	230	X 1 P 36 11 G I I A	X 1 P 36 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	A	B	C	D	E	F	D	E	F
	kg	mm	mm	mm	IN			OUT		
XV-1P/0.9	0,950	78,1	37,3	66,1	ø12	30	M6x1	ø12	30	M6x1
XV-1P/1.2	0,970	79,0	37,8	67,0	ø12	30	M6x1	ø12	30	M6x1
XV-1P/1.7	1,010	80,5	38,5	68,5	ø12	30	M6x1	ø12	30	M6x1
XV-1P/2.2	1,030	82,5	39,5	70,5	ø12	30	M6x1	ø12	30	M6x1
XV-1P/2.6	1,060	84,5	40,5	72,5	ø12	30	M6x1	ø12	30	M6x1
XV-1P/3.2	1,090	86,5	41,5	74,5	ø12	30	M6x1	ø12	30	M6x1
XV-1P/3.8	1,120	88,5	42,5	76,5	ø12	30	M6x1	ø12	30	M6x1
XV-1P/4.3	1,170	90,5	43,5	78,5	ø12	30	M6x1	ø12	30	M6x1
XV-1P/4.9	1,200	93,5	45,0	81,5	ø12	30	M6x1	ø12	30	M6x1
XV-1P/5.9	1,260	97,0	46,8	85,0	ø12	30	M6x1	ø12	30	M6x1
XV-1P/6.5	1,300	98,5	48,0	86,5	ø12	30	M6x1	ø12	30	M6x1
XV-1P/7.8	1,360	103,5	50,0	91,5	ø12	30	M6x1	ø12	30	M6x1
XV-1P/9.8	1,500	112,5	54,5	100,5	ø12	30	M6x1	ø12	30	M6x1



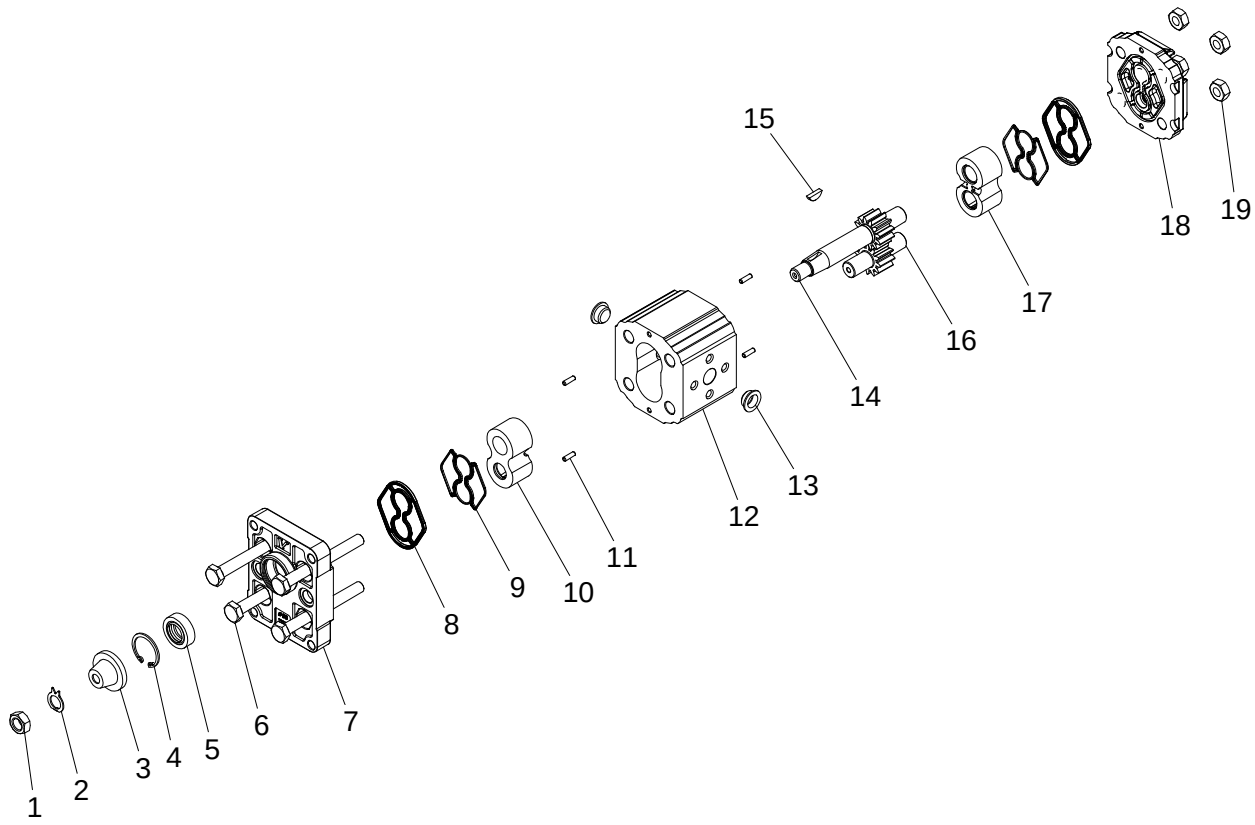
T.1 = 24.5÷29.4 [Nm] - screw tightening torque M8 T.3 = 13 [Nm] - torque wrench setting 17
T.2 = 119.8 [Nm] - admissible shaft torque (N.B. When choosing a shaft, always check the admissible torque).

STANDARD PUMP
ø30 FLANGE - TAPER SHAFT

Reference	XP113

Example of ordering code:

X1P2512GIIA XV1P/3.8 - Ø30 /D - CO002 - Ø30 M6 - Ø30 M6 - .



Basic list

Pos.	Item description	Item	Size	Quantity
1	NUT M10x1 H=6 CH=14 (FOR CO002- CI001)	**100.0224.A**	**0**	1
2	TAB WASHER ø10,25xø15 - CO002 - XV1	**100.0174.A**	**0**	1
3	KEY PROTECTION XV1	**590.0025.A**	**0**	1
4	ø24 INTERNAL SNAP RING DIN 472	**560.0015.A**	**0**	1
5	OIL SEAL CORCOS BLUE 14 x 24 x 7/7.5 - BAB SL	**690.0027.A**	**0**	1
6	WHITE GALVANISED SCREW TE M8x75 UNI 5737 8.8	**531.0008.A**	**L075**	4
7	XV1 ø30 FLANGE (for shaft ø14)	**100.0264.A**	**0**	1
8	INJECTION-MOLDED SEAL XV1 (NBR 70÷75 SH)	**100.0247.C**	**0**	2
9	XV1 BACK-UP ELEMENT FOR BALANCING	**100.0248.A**	**0**	2
10	XV1 BUSH H=19	**100.0502.A**	**0**	1
11	PIN ø3x9,8	**570.0005.A**	**0**	4
12	FLANGED BODY 30-M6 - 30-M6 - cc=3,8	**100.0020.A**	**H52**	1
13	PLASTIC PLUG ø12,5	**580.0001.A**	**D12,5**	2
14	CO002 - TAPERED 1÷8 DRIVING GEAR	**100.0026.A**	**CC3,8**	1
15	WOODRUFF KEY ø13x3 H=5	**100.0171.A**	**0**	1
16	COND2 - PERFORATED DRIVEN GEAR	**100.0023.A**	**CC3,8**	1
17	XV1 BUSH H=19	**100.0501.A**	**0**	1
18	STANDARD XV1 COVER	**100.0268.A**	**0**	1
19	WHITE GALVANISED NUT M8 H=6 UNI 5588	**540.0040.A**	**0**	4

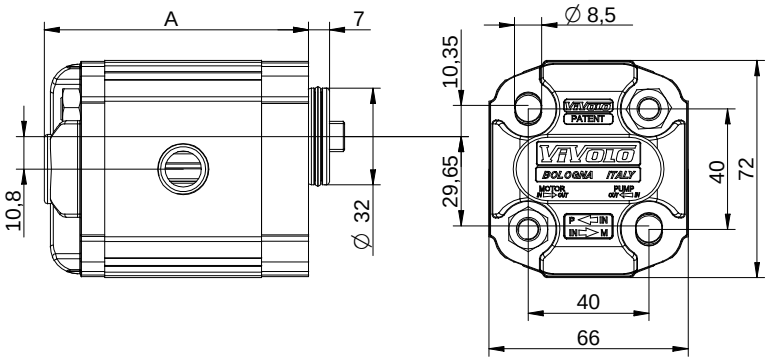
Table of variations

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

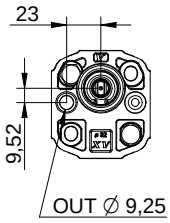
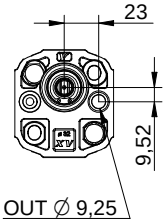
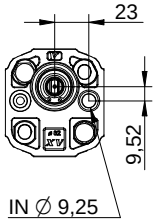
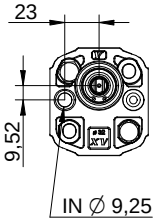
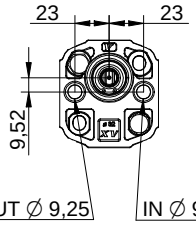
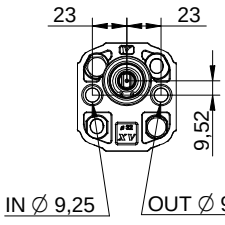
By filling in the missing data you can obtain the complete code of the product to be customised.

X	1	P						

Series		X	series XV
Group		1	group 1
Category		P	unidirectional pump
Displacement			
Flange			
Shaft			
Body	IN		
	OUT		
Cover			



ø32 "BH" Body-Shaped FLANGE

Left rotation	Code	Right rotation	Code
	41		42
	43		44
	45		46
	47		48

Shaft

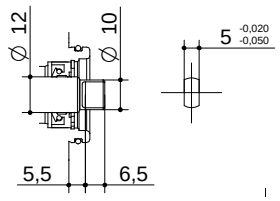
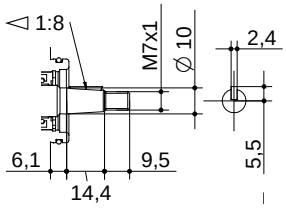
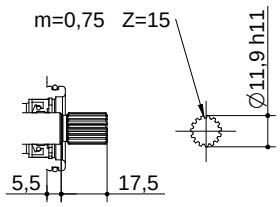
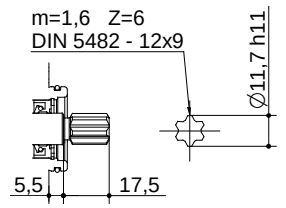
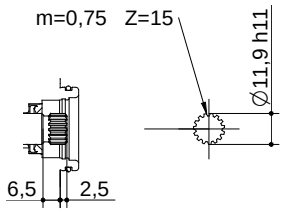
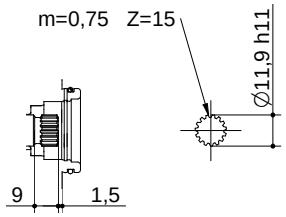
	Code		Code
CF002 - Milled shank  T.2 = 13.8 [Nm]	D	CO001 - Tapered  T.2 = 43 [Nm]	F
SCF02 - Splined m=0,75 Z=15  T.2 = 42.8 [Nm]	L	SCF04 - Splined m=1,6 Z=6 DIN 5482 - 12x9  T.2 = 22.6 [Nm]	J
SCF01 - Splined m=0,75 Z=15  T.2 = 42.8 [Nm]	Q	SCF03 - Splined m=0,75 Z=15  T.2 = 42.8 [Nm]	R

Table of variations

Displacement

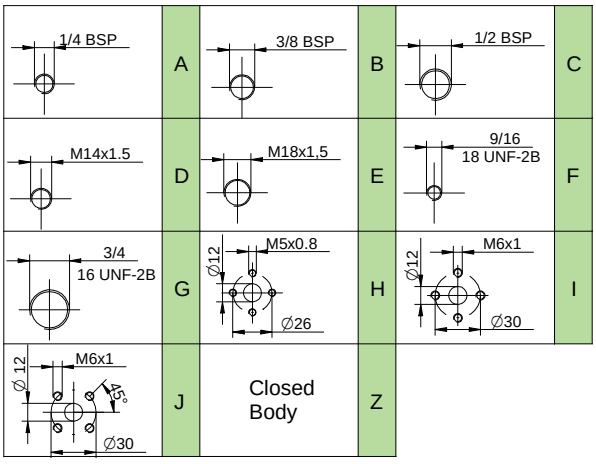
TYPE	CODE	A
		mm
XV-1P/0.9	**16**	77,1
XV-1P/1.2	**17**	78,0
XV-1P/1.7	**18**	79,5
XV-1P/2.2	**20**	81,5
XV-1P/2.6	**21**	83,5
XV-1P/3.2	**23**	85,5
XV-1P/3.8	**25**	87,5
XV-1P/4.3	**27**	89,5
XV-1P/4.9	**29**	92,5
XV-1P/5.9	**31**	96,0
XV-1P/6.5	**32**	97,5
XV-1P/7.8	**34**	102,5
XV-1P/9.8	**36**	111,5

Standard bodies

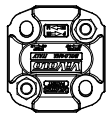
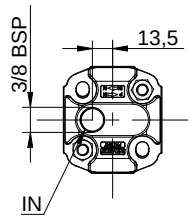
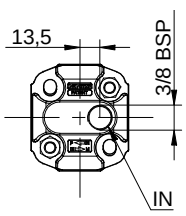
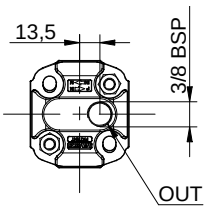
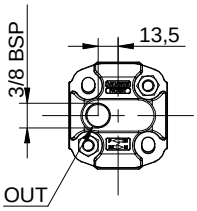
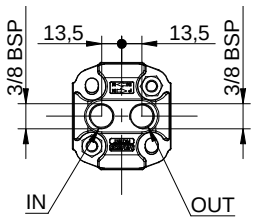
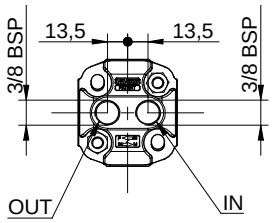
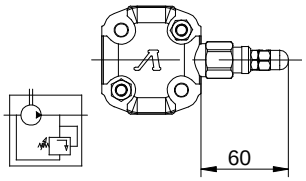
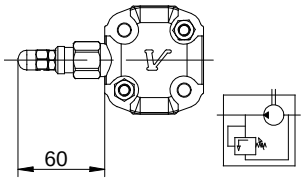
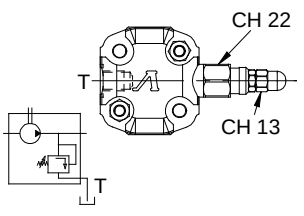
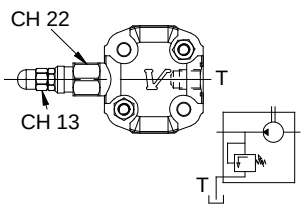
Displacement	Standard threads					
cm3/rev						
0.9	I - I	B - B	J - J	B - Z	Z - Z	G - F
1.2	I - I	B - B	J - J	B - Z	Z - Z	G - F
1.7	I - I	B - B	J - J	B - Z	Z - Z	G - F
2.2	I - I	B - B	J - J	B - Z	Z - Z	G - F
2.6	I - I	B - B	J - J	B - Z	Z - Z	G - F
3.2	I - I	B - B	J - J	B - Z	Z - Z	G - F
3.8	I - I	B - 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)



Cover

Left rotation	Right rotation	Code
		A
		B
		C
		D
		N
Internal drainage	Internal drainage	
		O
External drainage	External drainage	

unidirectional pump - series XV

XV-1P

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

X	1	P	25	42	D	B	B	A

Series		X	series XV
Group		1	group 1
Category		P	unidirectional pump
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

Reference **XP119**

Technical data table

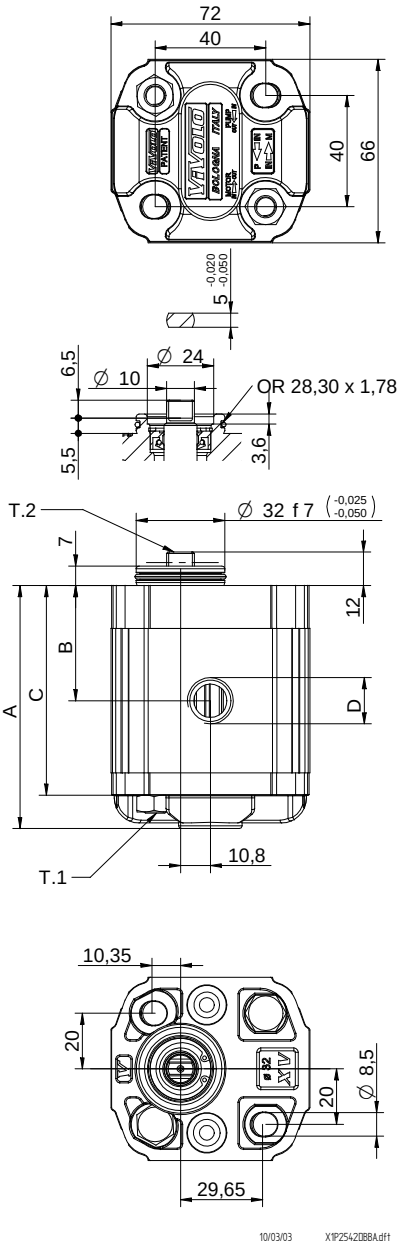
TYPE	Displacement	Max. Pressure		CODE	
	cm3/rev	P1 bar	P3 bar	Left rotation	Right rotation
XV-1P/0.9	0,91	240	280	X 1 P 16 41 D B B A	X 1 P 16 42 D B B A
XV-1P/1.2	1,17	250	290	X 1 P 17 41 D B B A	X 1 P 17 42 D B B A
XV-1P/1.7	1,56	250	290	X 1 P 18 41 D B B A	X 1 P 18 42 D B B A
XV-1P/2.2	2,08	250	290	X 1 P 20 41 D B B A	X 1 P 20 42 D B B A
XV-1P/2.6	2,60	250	300	X 1 P 21 41 D B B A	X 1 P 21 42 D B B A
XV-1P/3.2	3,12	250	300	X 1 P 23 41 D B B A	X 1 P 23 42 D B B A
XV-1P/3.8	3,64	250	300	X 1 P 25 41 D B B A	X 1 P 25 42 D B B A
XV-1P/4.3	4,16	250	300	X 1 P 27 41 D B B A	X 1 P 27 42 D B B A
XV-1P/4.9	4,94	250	300	X 1 P 29 41 D B B A	X 1 P 29 42 D B B A
XV-1P/5.9	5,85	250	300	X 1 P 31 41 D B B A	X 1 P 31 42 D B B A
XV-1P/6.5	6,50	250	300	X 1 P 32 41 D B B A	X 1 P 32 42 D B B A
XV-1P/7.8	7,54	220	260	X 1 P 34 41 D B B A	X 1 P 34 42 D B B A
XV-1P/9.8	9,88	190	230	X 1 P 36 41 D B B A	X 1 P 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-1P/0.9	0,950	77,1	36,3	65,1	3/8" BSPP	3/8" BSPP
XV-1P/1.2	0,970	78,0	36,8	66,0	3/8" BSPP	3/8" BSPP
XV-1P/1.7	1,010	79,5	37,5	67,5	3/8" BSPP	3/8" BSPP
XV-1P/2.2	1,030	81,5	38,5	69,5	3/8" BSPP	3/8" BSPP
XV-1P/2.6	1,060	83,5	39,5	71,5	3/8" BSPP	3/8" BSPP
XV-1P/3.2	1,090	85,5	40,5	73,5	3/8" BSPP	3/8" BSPP
XV-1P/3.8	1,120	87,5	41,5	75,5	3/8" BSPP	3/8" BSPP
XV-1P/4.3	1,170	89,5	42,5	77,5	3/8" BSPP	3/8" BSPP
XV-1P/4.9	1,200	92,5	44,0	80,5	3/8" BSPP	3/8" BSPP
XV-1P/5.9	1,260	96,0	45,8	84,0	3/8" BSPP	3/8" BSPP
XV-1P/6.5	1,300	97,5	47,0	85,5	3/8" BSPP	3/8" BSPP
XV-1P/7.8	1,360	102,5	49,0	90,5	3/8" BSPP	3/8" BSPP
XV-1P/9.8	1,500	111,5	53,5	99,5	3/8" BSPP	3/8" BSPP



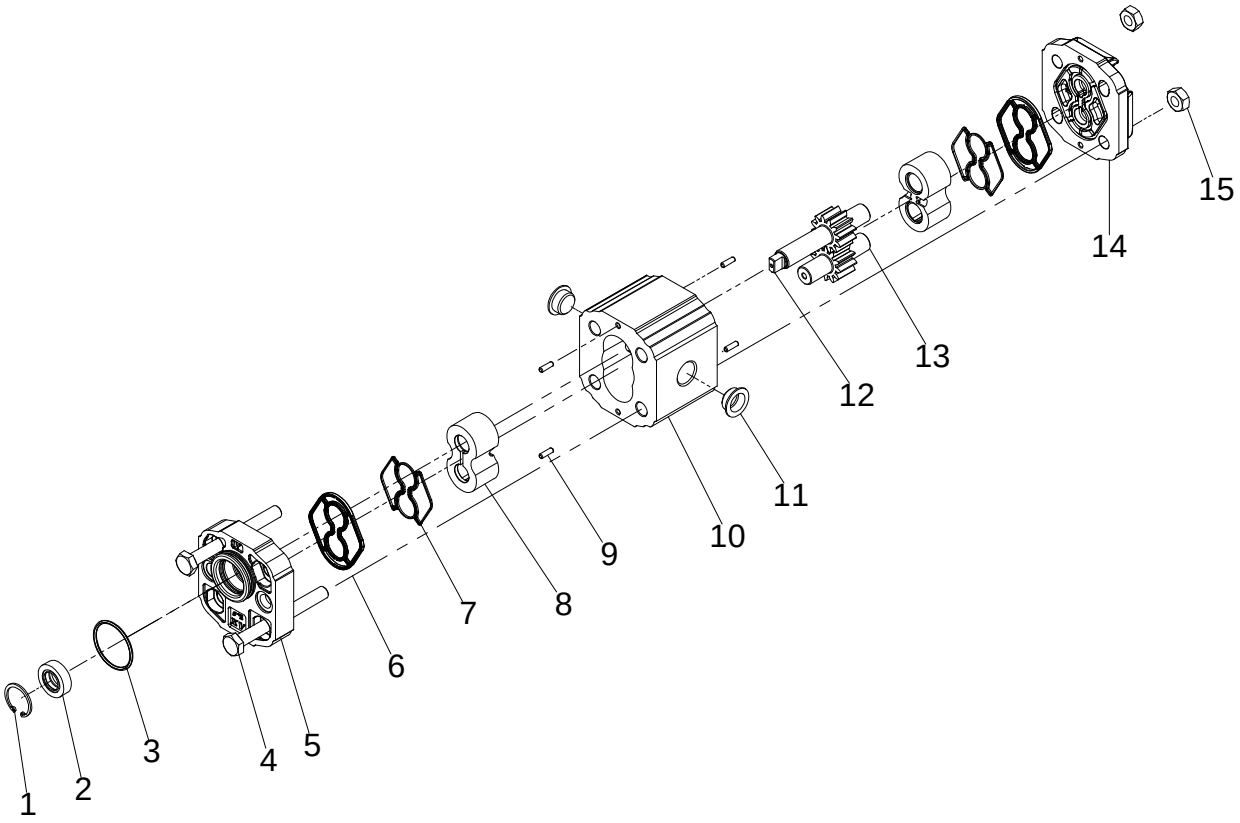
T.1 = 24.5÷29.4 [Nm] - screw tightening torque M8

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

Reference	XP119

Example of ordering code:

X1P2542DBBA XV1P/3.8 - Ø32 BH /D - CF002 - 3/8" BSP - 3/8" BSP - .



Basic list

Pos.	Item description	Item	Size	Quantity
1	ø22 INTERNAL SNAP RING DIN 472	**560.0010.A**	**0**	1
2	OIL SEAL 12 x 22 x 6/6.5 TCV (BAB SL)	**690.0020.A**	**0**	1
3	OR 28.30 x 1.78	**640.0040.A**	**0**	1
4	WHITE GALVANISED SCREW TE M8x75 UNI 5737 8.8	**531.0008.A**	**L075**	2
5	XV1 ø32 BH-HY FLANGE	**100.0271.A**	**0**	1
6	INJECTION-MOLDED SEAL XV1 (NBR 70÷75 SH)	**100.0247.C**	**0**	2
7	XV1 BACK-UP ELEMENT FOR BALANCING	**100.0248.A**	**0**	2
8	XV1 BUSH H=19	**100.0501.A**	**0**	2
9	PIN ø3x9,8	**570.0005.A**	**0**	4
10	BODY W/THREAD 3/8" - 3/8" BSP - BH - cc=3,8	**100.0067.B**	**H52**	1
11	PLASTIC PLUG ø15,5	**580.0001.A**	**D15,5**	2
12	CF002 - DRIVING GEAR MILLED SHANK	**100.0027.A**	**CC3,8**	1
13	COND2 - PERFORATED DRIVEN GEAR	**100.0023.A**	**CC3,8**	1
14	STANDARD XV1 COVER	**100.0268.A**	**0**	1
15	WHITE GALVANISED NUT M8 H=6 UNI 5588	**540.0040.A**	**0**	2

ø32 "HY" Body-Shaped FLANGE

Table of variations

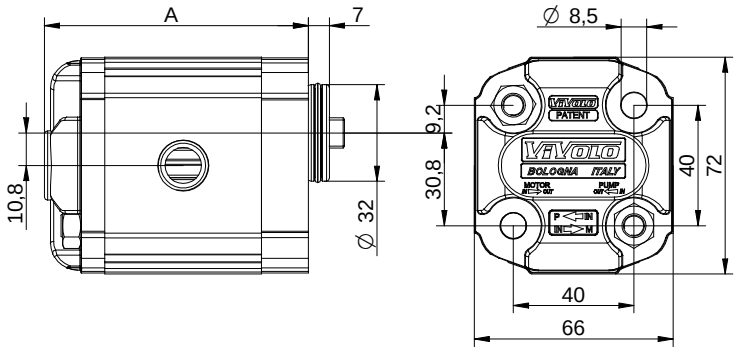
These two pages provide an overview of all the possible variations for customising a pump with a ø32 "HY" body-Shaped flange.

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

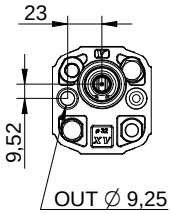
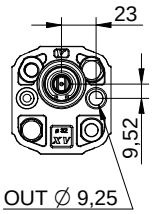
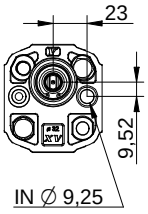
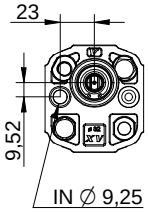
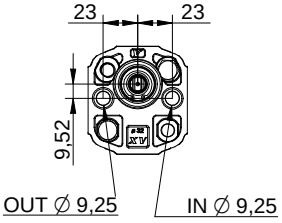
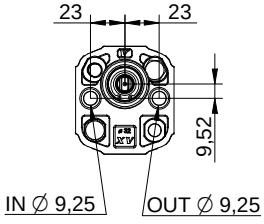
X	1	P						

Series		X
Group		1
Category		P
Displacement		
Flange		
Shaft		
Body	IN	
	OUT	
Cover		

series XV
group 1
unidirectional pump



ø32 "HY" Body-Shaped FLANGE

Left rotation	Code	Right rotation	Code
	51		52
	53		54
	55		56
	57		58

Shaft

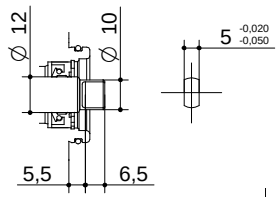
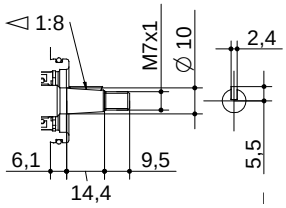
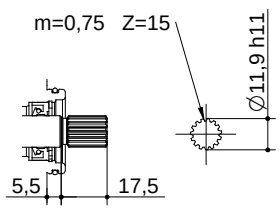
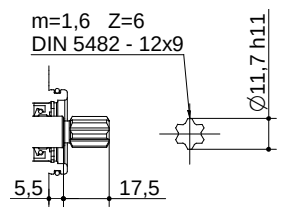
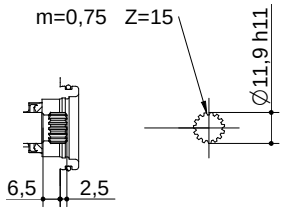
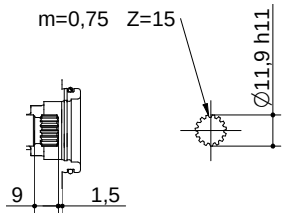
	Code		Code
CF002 - Milled shank  T.2 = 13.8 [Nm]	D	CO001 - Tapered  T.2 = 43 [Nm]	F
SCF02 - Splined  T.2 = 42.8 [Nm]	L	SCF04 - Splined  T.2 = 22.6 [Nm]	J
SCF01 - Splined  T.2 = 42.8 [Nm]	Q	SCF03 - Splined  T.2 = 42.8 [Nm]	R

Table of variations

Displacement

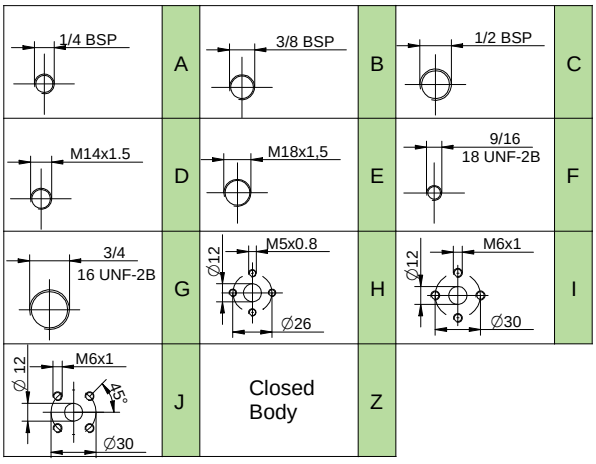
TYPE	CODE	A
		mm
XV-1P/0.9	16	77,1
XV-1P/1.2	17	78,0
XV-1P/1.7	18	79,5
XV-1P/2.2	20	81,5
XV-1P/2.6	21	83,5
XV-1P/3.2	23	85,5
XV-1P/3.8	25	87,5
XV-1P/4.3	27	89,5
XV-1P/4.9	29	92,5
XV-1P/5.9	31	96,0
XV-1P/6.5	32	97,5
XV-1P/7.8	34	102,5
XV-1P/9.8	36	111,5

Standard bodies

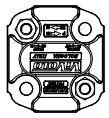
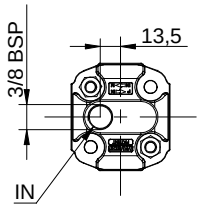
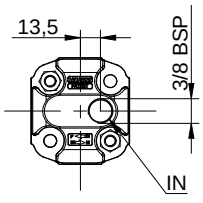
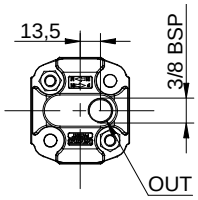
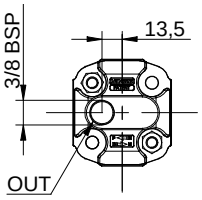
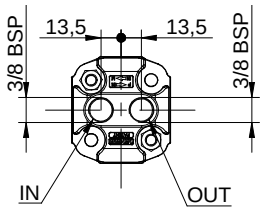
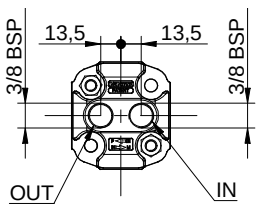
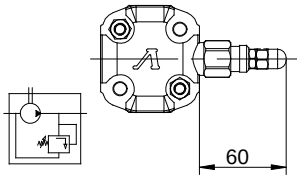
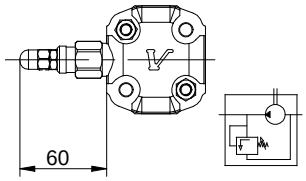
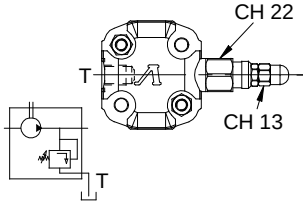
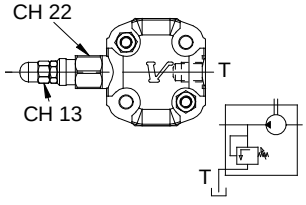
Displacement	Standard threads					
cm3/rev						
0.9	I - I	B - B	J - J	B - Z	Z - Z	G - F
1.2	I - I	B - B	J - J	B - Z	Z - Z	G - F
1.7	I - I	B - B	J - J	B - Z	Z - Z	G - F
2.2	I - I	B - B	J - J	B - Z	Z - Z	G - F
2.6	I - I	B - B	J - J	B - Z	Z - Z	G - F
3.2	I - I	B - B	J - J	B - Z	Z - Z	G - F
3.8	I - I	B - 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)



Cover

Left rotation	Right rotation	Code
		A
		B
		C
		D
 Internal drainage	 Internal drainage	N
 External drainage	 External drainage	O

unidirectional pump - series XV

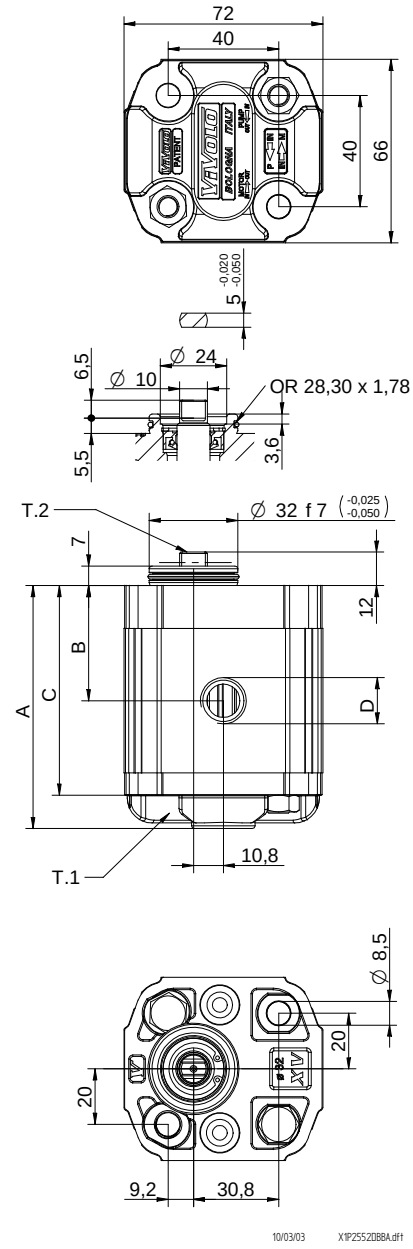
XV-1P

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

X	1	P	25	52	D	B	B	A

Series		X	series XV
Group		1	group 1
Category		P	unidirectional pump
Displacement		25	3.8
Flange		52	Ø32 HY 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

Reference **XP140**



Technical data table

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

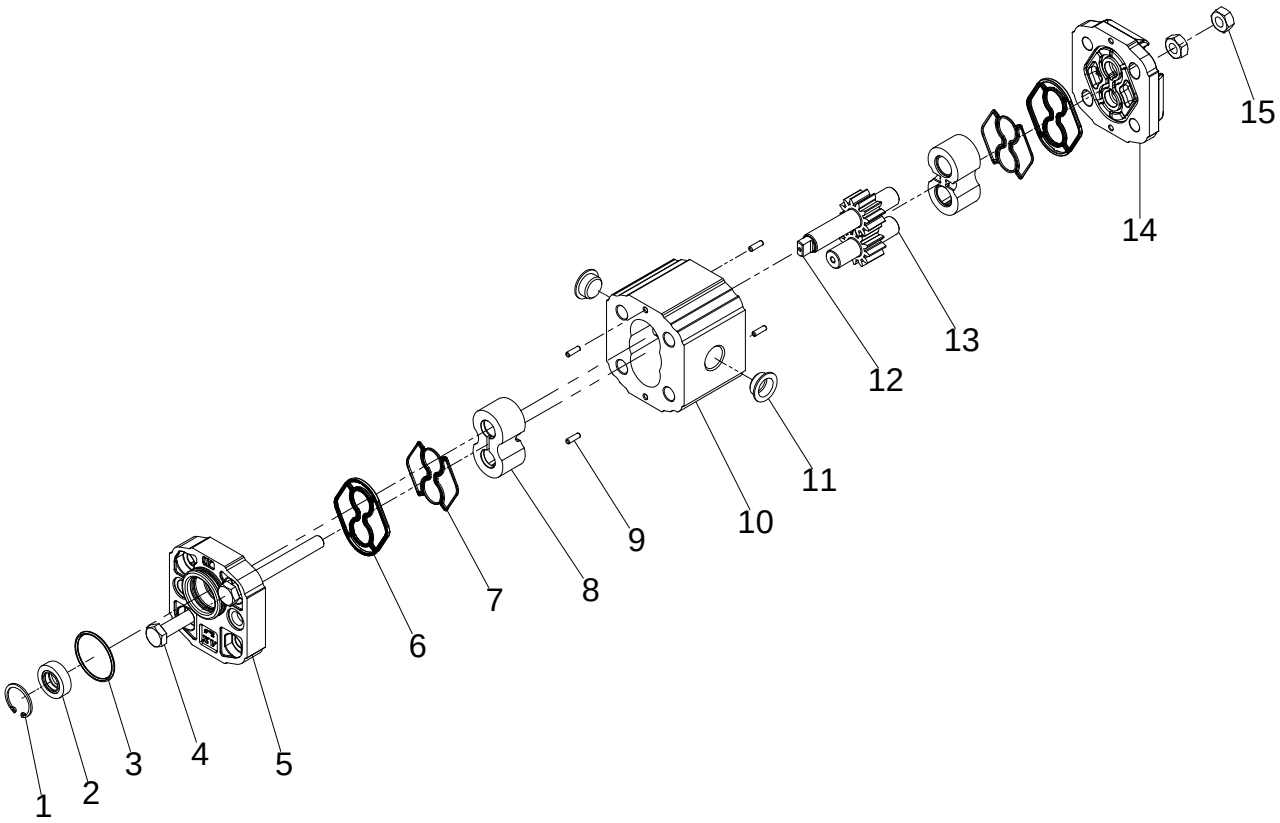
TYPE	Weight	A	B	C	D	D
	kg	mm	mm	mm	IN	OUT
XV-1P/0.9	0,950	77,1	36,3	65,1	3/8" BSPP	3/8" BSPP
XV-1P/1.2	0,970	78,0	36,8	66,0	3/8" BSPP	3/8" BSPP
XV-1P/1.7	1,010	79,5	37,5	67,5	3/8" BSPP	3/8" BSPP
XV-1P/2.2	1,030	81,5	38,5	69,5	3/8" BSPP	3/8" BSPP
XV-1P/2.6	1,060	83,5	39,5	71,5	3/8" BSPP	3/8" BSPP
XV-1P/3.2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

Reference	XP140

Example of ordering code:

X1P2552DBBA XV1P/3.8 - Ø32 HY /D - CF002 - 3/8" BSP - 3/8" BSP - .



Basic list

Pos.	Item description	Item	Size	Quantity
1	ø22 INTERNAL SNAP RING DIN 472	**560.0010.A**	**0**	1
2	OIL SEAL 12 x 22 x 6/6.5 TCV (BAB SL)	**690.0020.A**	**0**	1
3	OR 28.30 x 1.78	**640.0040.A**	**0**	1
4	WHITE GALVANISED SCREW TE M8x75 UNI 5737 8.8	**531.0008.A**	**L075**	2
5	XV1 ø32 BH-HY FLANGE	**100.0271.A**	**0**	1
6	INJECTION-MOLDED SEAL XV1 (NBR 70÷75 SH)	**100.0247.C**	**0**	2
7	XV1 BACK-UP ELEMENT FOR BALANCING	**100.0248.A**	**0**	2
8	XV1 BUSH H=19	**100.0501.A**	**0**	2
9	PIN ø3x9,8	**570.0005.A**	**0**	4
10	BODY W/THREAD 3/8" - 3/8" BSP - cc=3,8	**100.0067.A**	**H52**	1
11	PLASTIC PLUG ø15,5	**580.0001.A**	**D15,5**	2
12	CF002 - DRIVING GEAR MILLED SHANK	**100.0027.A**	**CC3,8**	1
13	COND2 - PERFORATED DRIVEN GEAR	**100.0023.A**	**CC3,8**	1
14	STANDARD XV1 COVER	**100.0268.A**	**0**	1
15	WHITE GALVANISED NUT M8 H=6 UNI 5588	**540.0040.A**	**0**	2

Standard German ø32 "BH" FLANGE

XV-1P

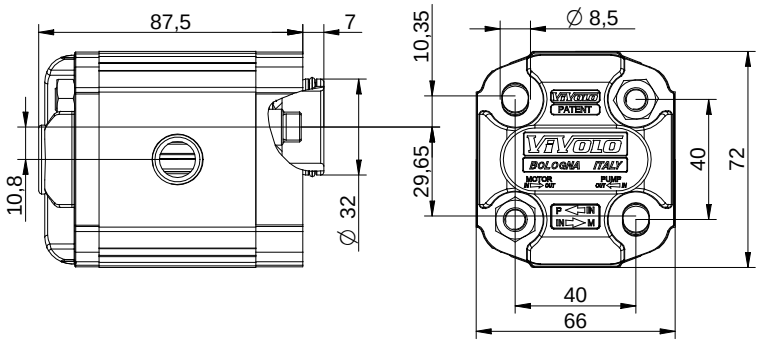
Table of variations

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

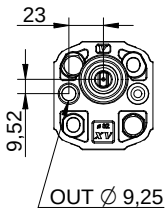
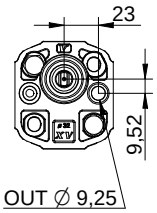
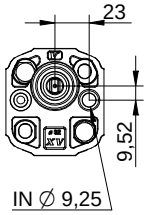
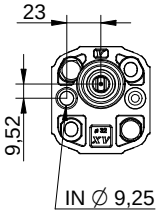
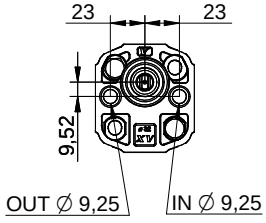
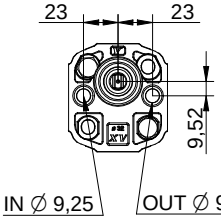
By filling in the missing data you can obtain the complete code of the product to be customised.

X	1	P						

Series		X	series XV
Group		1	group 1
Category		P	unidirectional pump
Displacement			
Flange			
Shaft			
Body	IN		
	OUT		
Cover			



Standard German ø32 "BH" FLANGE

Left rotation	Code	Right rotation	Code
	31		32
	33		34
	35		36
	37		38

Shaft

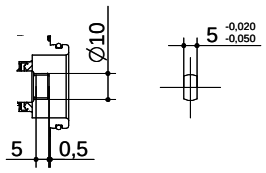
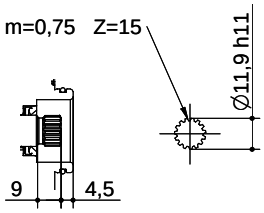
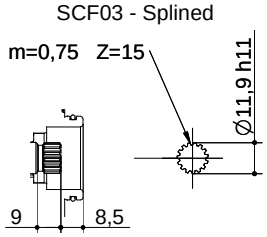
	Code		Code
CF001 - Milled shank  T.2 = 13.8 [Nm]	C	SCF01 - Splined  T.2 = 42.8 [Nm]	Q
SCF03 - Splined  T.2 = 42.8 [Nm]	R		Z

Table of variations

Displacement

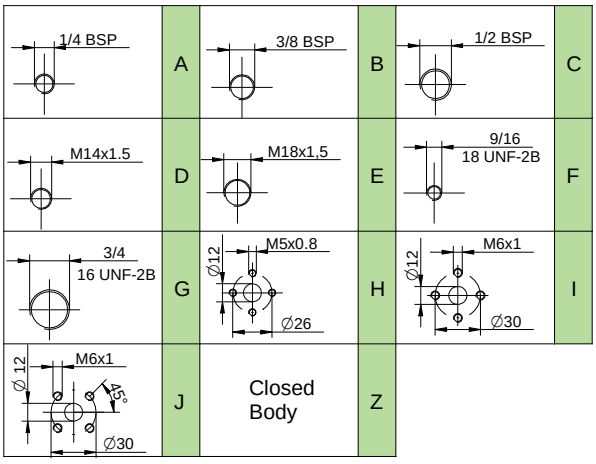
TYPE	CODE	A
		mm
XV-1P/0.9	**16**	77,1
XV-1P/1.2	**17**	78,0
XV-1P/1.7	**18**	79,5
XV-1P/2.2	**20**	81,5
XV-1P/2.6	**21**	83,5
XV-1P/3.2	**23**	85,5
XV-1P/3.8	**25**	87,5
XV-1P/4.3	**27**	89,5
XV-1P/4.9	**29**	92,5
XV-1P/5.9	**31**	96,0
XV-1P/6.5	**32**	97,5
XV-1P/7.8	**34**	102,5
XV-1P/9.8	**36**	111,5

Standard bodies

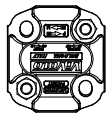
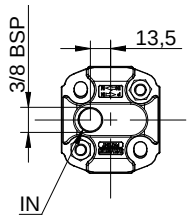
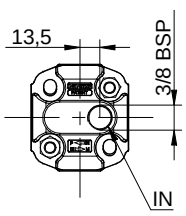
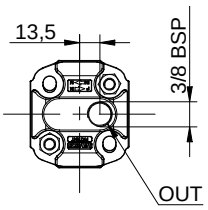
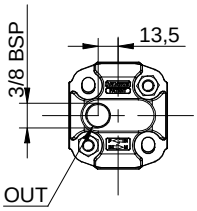
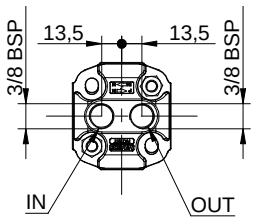
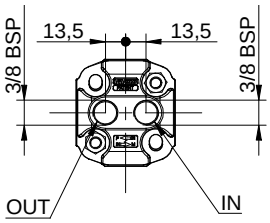
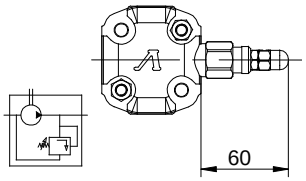
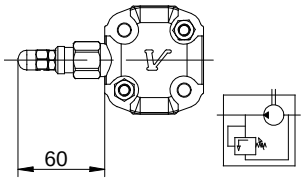
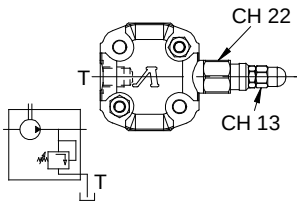
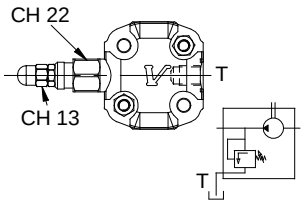
Displacement	Standard threads					
cm3/rev						
0.9	I - I	B - B	J - J	B - Z	Z - Z	G - F
1.2	I - I	B - B	J - J	B - Z	Z - Z	G - F
1.7	I - I	B - B	J - J	B - Z	Z - Z	G - F
2.2	I - I	B - B	J - J	B - Z	Z - Z	G - F
2.6	I - I	B - B	J - J	B - Z	Z - Z	G - F
3.2	I - I	B - B	J - J	B - Z	Z - Z	G - F
3.8	I - I	B - 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)



Cover

Left rotation	Right rotation	Code
		A
		B
		C
		D
 Internal drainage	 Internal drainage	N
 External drainage	 External drainage	O

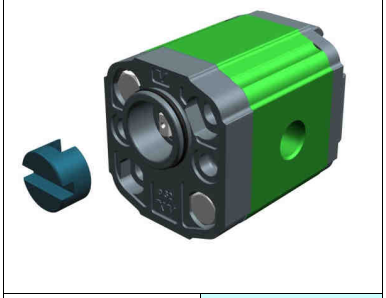
unidirectional pump - series XV

XV-1P

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

X	1	P	25	32	C	B	B	A

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



Reference **XP161**

Technical data table

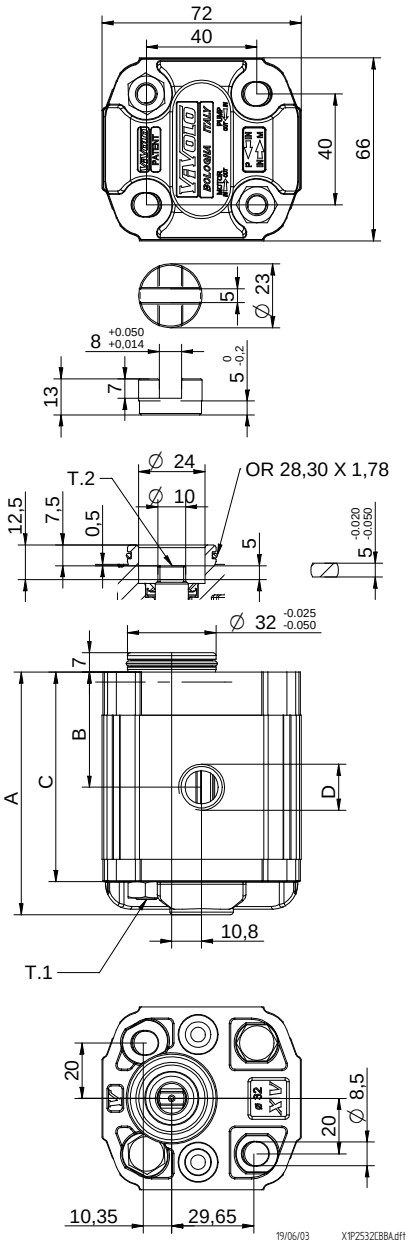
TYPE	Displacement	Max. Pressure		CODE	
	cm3/rev	P1 bar	P3 bar	Left rotation	Right rotation
XV-1P/0.9	0,91	240	280	X 1 P 16 31 C B B A	X 1 P 16 32 C B B A
XV-1P/1.2	1,17	250	290	X 1 P 17 31 C B B A	X 1 P 17 32 C B B A
XV-1P/1.7	1,56	250	290	X 1 P 18 31 C B B A	X 1 P 18 32 C B B A
XV-1P/2.2	2,08	250	290	X 1 P 20 31 C B B A	X 1 P 20 32 C B B A
XV-1P/2.6	2,60	250	300	X 1 P 21 31 C B B A	X 1 P 21 32 C B B A
XV-1P/3.2	3,12	250	300	X 1 P 23 31 C B B A	X 1 P 23 32 C B B A
XV-1P/3.8	3,64	250	300	X 1 P 25 31 C B B A	X 1 P 25 32 C B B A
XV-1P/4.3	4,16	250	300	X 1 P 27 31 C B B A	X 1 P 27 32 C B B A
XV-1P/4.9	4,94	250	300	X 1 P 29 31 C B B A	X 1 P 29 32 C B B A
XV-1P/5.9	5,85	250	300	X 1 P 31 31 C B B A	X 1 P 31 32 C B B A
XV-1P/6.5	6,50	250	300	X 1 P 32 31 C B B A	X 1 P 32 32 C B B A
XV-1P/7.8	7,54	220	260	X 1 P 34 31 C B B A	X 1 P 34 32 C B B A
XV-1P/9.8	9,88	190	230	X 1 P 36 31 C B B A	X 1 P 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	A	B	C	D	D
	kg	mm	mm	mm	IN	OUT
XV-1P/0.9	0,950	77,1	36,3	65,1	3/8" BSPP	3/8" BSPP
XV-1P/1.2	0,970	78,0	36,8	66,0	3/8" BSPP	3/8" BSPP
XV-1P/1.7	1,010	79,5	37,5	67,5	3/8" BSPP	3/8" BSPP
XV-1P/2.2	1,030	81,5	38,5	69,5	3/8" BSPP	3/8" BSPP
XV-1P/2.6	1,060	83,5	39,5	71,5	3/8" BSPP	3/8" BSPP
XV-1P/3.2	1,090	85,5	40,5	73,5	3/8" BSPP	3/8" BSPP
XV-1P/3.8	1,120	87,5	41,5	75,5	3/8" BSPP	3/8" BSPP
XV-1P/4.3	1,170	89,5	42,5	77,5	3/8" BSPP	3/8" BSPP
XV-1P/4.9	1,200	92,5	44,0	80,5	3/8" BSPP	3/8" BSPP
XV-1P/5.9	1,260	96,0	45,8	84,0	3/8" BSPP	3/8" BSPP
XV-1P/6.5	1,300	97,5	47,0	85,5	3/8" BSPP	3/8" BSPP
XV-1P/7.8	1,360	102,5	49,0	90,5	3/8" BSPP	3/8" BSPP
XV-1P/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

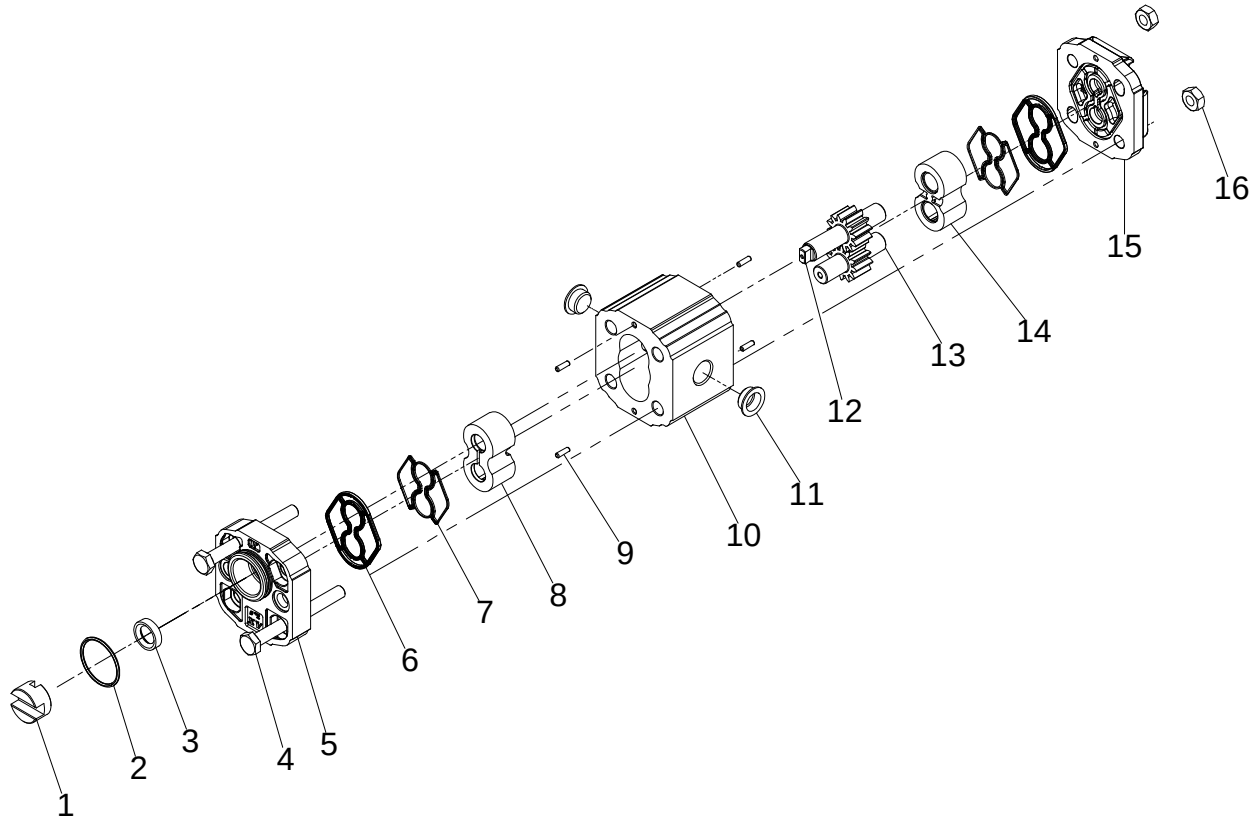
T.2 = 13.8 [Nm] - admissible shaft torque (N.B. When choosing a shaft, always check the admissible torque).

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

Reference	XP161

Example of ordering code:

X1P2532CBBA XV1P/3.8 - Ø32 BH /D - CF001 - 3/8" BSP - 3/8" BSP - .



Basic list

Pos.	Item description	Item	Size	Quantity
1	STANDARD SLOTTED COUPLING (MILLED 5-8) - ø32 FLANGE	**100.0057.A**	**0**	1
2	OR 28.30 x 1.78	**640.0040.A**	**0**	1
3	OIL SEAL 12 x 19 x 5 SC (BA)	**690.0015.A**	**0**	1
4	WHITE GALVANISED SCREW TE M8x75 UNI 5737 8.8	**531.0008.A**	**L075**	2
5	XV1 ø32 BH-HY FLANGE FOR CF001	**100.0272.X**	**0**	1
6	INJECTION-MOLDED SEAL XV1 (NBR 70÷75 SH)	**100.0247.C**	**0**	2
7	XV1 BACK-UP ELEMENT FOR BALANCING	**100.0248.A**	**0**	2
8	XV1 BUSH H=19 (with channel and discharge port)	**100.0001.X**	**0**	1
9	PIN ø3x9,8	**570.0005.A**	**0**	4
10	BODY W/THREAD 3/8" - 3/8" BSP - BH - cc=3,8	**100.0067.B**	**H52**	1
11	PLASTIC PLUG ø15,5	**580.0001.A**	**D15,5**	2
12	CF001 - DRIVING GEAR MILLED SHANK	**100.0037.A**	**CC3,8**	1
13	COND2 - PERFORATED DRIVEN GEAR	**100.0023.A**	**CC3,8**	1
14	XV1 BUSH H=19	**100.0501.A**	**0**	1
15	STANDARD XV1 COVER	**100.0268.A**	**0**	1
16	WHITE GALVANISED NUT M8 H=6 UNI 5588	**540.0040.A**	**0**	2

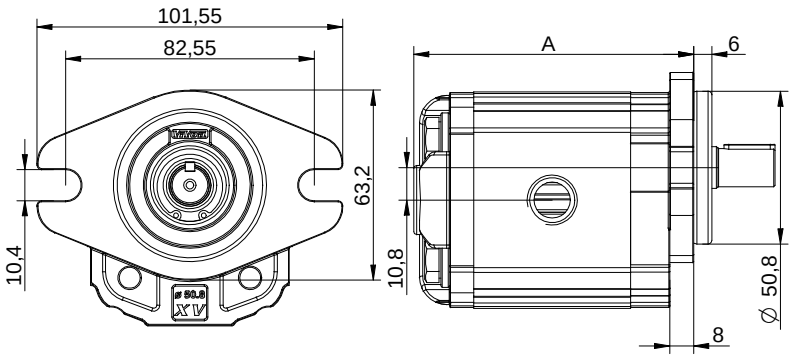
Table of variations

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

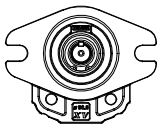
By filling in the missing data you can obtain the complete code of the product to be customised.

X	1	P						

Series		X	series XV
Group		1	group 1
Category		P	unidirectional pump
Displacement			
Flange			
Shaft			
Body	IN		
	OUT		
Cover			



ø50.8 FLANGE "SAE AA"

Left rotation	Code	Right rotation	Code
	61		62

Shaft

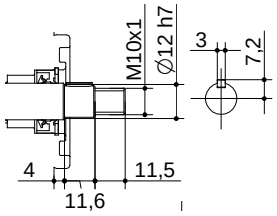
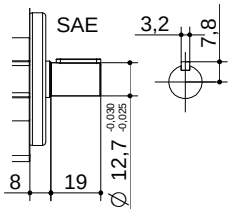
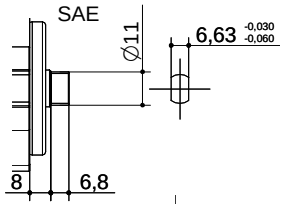
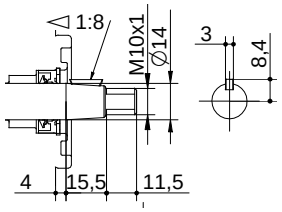
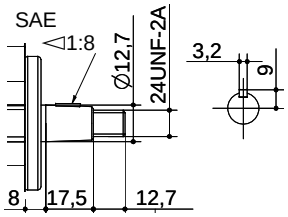
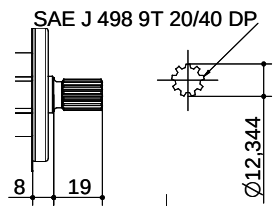
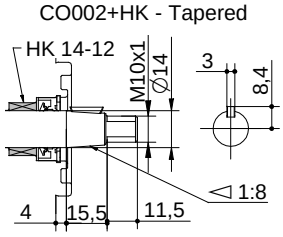
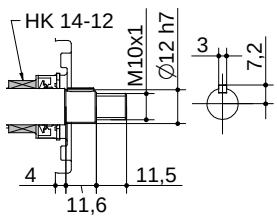
	Code		Code
CI001 - Parallel  T.2 = 25.8 [Nm]	A	CI002 - Parallel  T.2 = 32.8 [Nm]	B
CF003 - Milled shank  T.2 = 25.9 [Nm]	E	CO002 - Tapered  T.2 = 119.8 [Nm]	G
CO004 - Tapered  T.2 = 90.4 [Nm]	I	SCF05 - Splined  T.2 = 32.2 [Nm]	K
CO002+HK - Tapered  T.2 = 119.8 [Nm]	O	CI001+HK - Parallel  T.2 = 25.8 [Nm]	P

Table of variations

Displacement

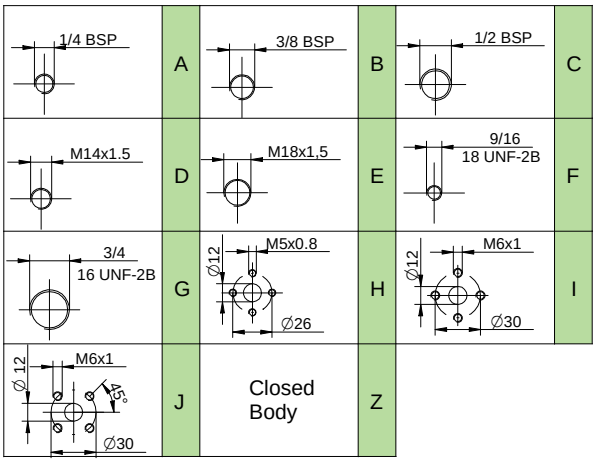
TYPE	CODE	A
		mm
XV-1P/0.9	16	82,6
XV-1P/1.2	17	83,5
XV-1P/1.7	18	85,0
XV-1P/2.2	20	87,0
XV-1P/2.6	21	89,0
XV-1P/3.2	23	91,0
XV-1P/3.8	25	93,0
XV-1P/4.3	27	95,0
XV-1P/4.9	29	98,0
XV-1P/5.9	31	101,5
XV-1P/6.5	32	105,0
XV-1P/7.8	34	108,0
XV-1P/9.8	36	117,0

Standard bodies

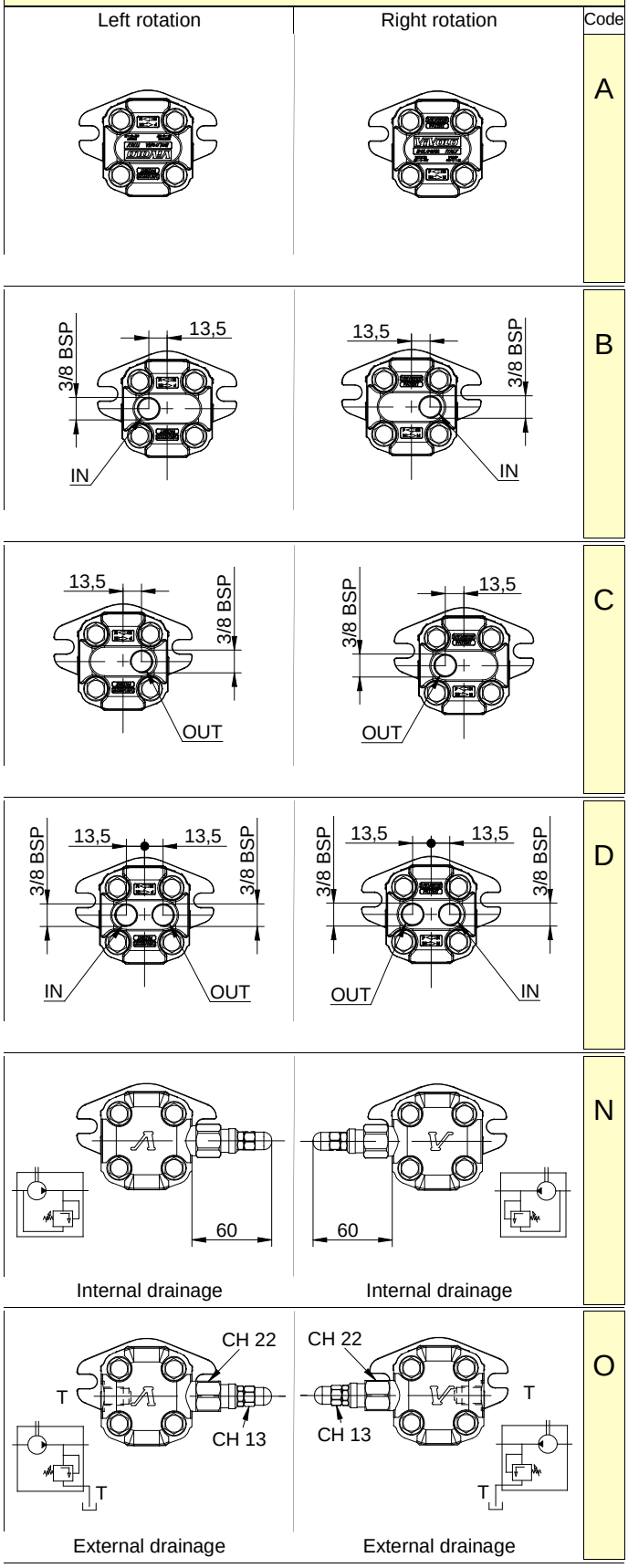
Displacement	Standard threads					
cm3/rev						
0.9	I - I	B - B	J - J	B - Z	Z - Z	G - F
1.2	I - I	B - B	J - J	B - Z	Z - Z	G - F
1.7	I - I	B - B	J - J	B - Z	Z - Z	G - F
2.2	I - I	B - B	J - J	B - Z	Z - Z	G - F
2.6	I - I	B - B	J - J	B - Z	Z - Z	G - F
3.2	I - I	B - B	J - J	B - Z	Z - Z	G - F
3.8	I - I	B - 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)



Cover



unidirectional pump - series XV

XV-1P

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

X	1	P	25	62	B	B	B	A

Series		X	series XV
Group		1	group 1
Category		P	unidirectional pump
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	B	inlet - 3/8" GAS
	OUT	B	outlet - 3/8" GAS
Cover		A	standard

Reference **XP168**

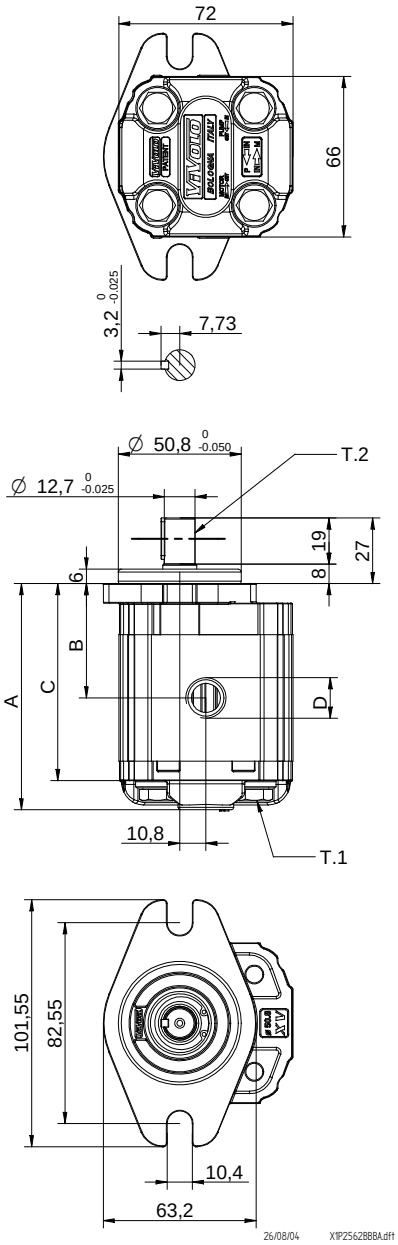
Technical data table

TYPE	Displacement	Max. Pressure		CODE	
	cm3/rev	P1 bar	P3 bar	Left rotation	Right rotation
XV-1P/0.9	0,91	240	280	X 1 P 16 61 B B B A	X 1 P 16 62 B B B A
XV-1P/1.2	1,17	250	290	X 1 P 17 61 B B B A	X 1 P 17 62 B B B A
XV-1P/1.7	1,56	250	290	X 1 P 18 61 B B B A	X 1 P 18 62 B B B A
XV-1P/2.2	2,08	250	290	X 1 P 20 61 B B B A	X 1 P 20 62 B B B A
XV-1P/2.6	2,60	250	300	X 1 P 21 61 B B B A	X 1 P 21 62 B B B A
XV-1P/3.2	3,12	250	300	X 1 P 23 61 B B B A	X 1 P 23 62 B B B A
XV-1P/3.8	3,64	250	300	X 1 P 25 61 B B B A	X 1 P 25 62 B B B A
XV-1P/4.3	4,16	250	300	X 1 P 27 61 B B B A	X 1 P 27 62 B B B A
XV-1P/4.9	4,94	250	300	X 1 P 29 61 B B B A	X 1 P 29 62 B B B A
XV-1P/5.9	5,85	250	300	X 1 P 31 61 B B B A	X 1 P 31 62 B B B A
XV-1P/6.5	6,50	250	300	X 1 P 32 61 B B B A	X 1 P 32 62 B B B A
XV-1P/7.8	7,54	220	260	X 1 P 34 61 B B B A	X 1 P 34 62 B B B A
XV-1P/9.8	9,88	190	230	X 1 P 36 61 B B B A	X 1 P 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	A	B	C	D	D
	kg	mm	mm	mm	IN	OUT
XV-1P/0.9	1,000	82,6	41,8	70,6	3/8" BSPP	3/8" BSPP
XV-1P/1.2	1,020	83,5	42,3	71,5	3/8" BSPP	3/8" BSPP
XV-1P/1.7	1,060	85,0	43,0	73,0	3/8" BSPP	3/8" BSPP
XV-1P/2.2	1,080	87,0	44,0	75,0	3/8" BSPP	3/8" BSPP
XV-1P/2.6	1,110	89,0	45,0	77,0	3/8" BSPP	3/8" BSPP
XV-1P/3.2	1,140	91,0	46,0	79,0	3/8" BSPP	3/8" BSPP
XV-1P/3.8	1,170	93,0	47,0	81,0	3/8" BSPP	3/8" BSPP
XV-1P/4.3	1,220	95,0	48,0	83,0	3/8" BSPP	3/8" BSPP
XV-1P/4.9	1,250	98,0	49,5	86,0	3/8" BSPP	3/8" BSPP
XV-1P/5.9	1,310	101,5	51,3	89,5	3/8" BSPP	3/8" BSPP
XV-1P/6.5	1,350	105,0	52,5	93,0	3/8" BSPP	3/8" BSPP
XV-1P/7.8	1,410	108,0	54,5	96,0	3/8" BSPP	3/8" BSPP
XV-1P/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).

unidirectional pump - series XV

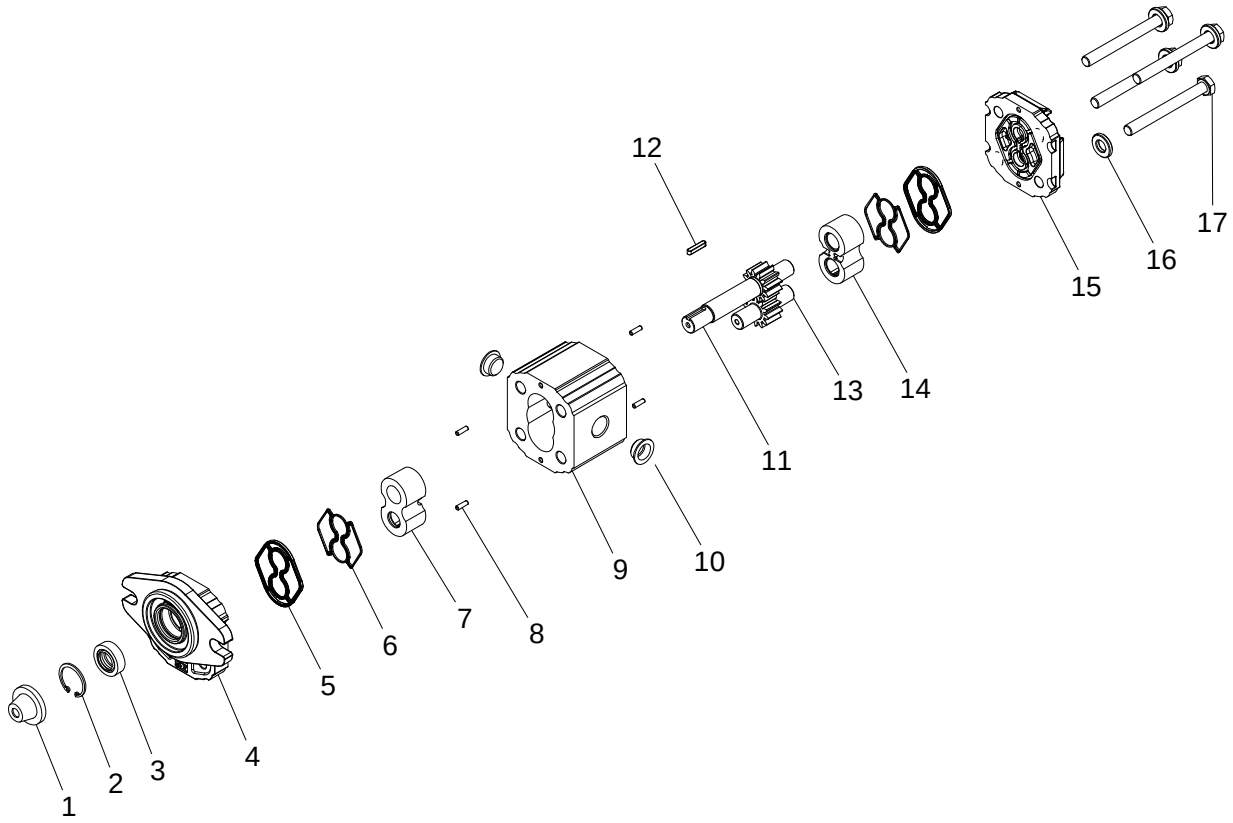
XV-1P

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

Reference	**XP168**

Example of ordering code:

X1P2562BBBA XV1P/3.8 - Ø50.8 SAE AA /D - CI002 - 3/8" BSP - 3/8" BSP - .



Basic list

Pos.	Item description	Item	Size	Quantity
1	KEY PROTECTION XV1	**590.0025.A**	**0**	1
2	ø24 INTERNAL SNAP RING DIN 472	**560.0015.A**	**0**	1
3	OIL SEAL CORCOS BLUE 14 x 24 x 7/7.5 - BAB SL	**690.0027.A**	**0**	1
4	XV1 ø50,8 SAE AA FLANGE	**100.0273.A**	**0**	1
5	INJECTION-MOLDED SEAL XV1 (NBR 70÷75 SH)	**100.0247.C**	**0**	2
6	XV1 BACK-UP ELEMENT FOR BALANCING	**100.0248.A**	**0**	2
7	XV1 BUSH H=19	**100.0502.A**	**0**	1
8	PIN ø3x9,8	**570.0005.A**	**0**	4
9	BODY W/THREAD 3/8" - 3/8" BSP - cc=3,8	**100.0067.A**	**H52**	1
10	PLASTIC PLUG ø15,5	**580.0001.A**	**D15,5**	2
11	CI002 SAE - PARALLEL DRIVING GEAR	**100.0115.A**	**CC3,8**	1
12	KEY 3,2x3,2 L=17	**100.0173.A**	**0**	1
13	COND2 - PERFORATED DRIVEN GEAR	**100.0023.A**	**CC3,8**	1
14	XV1 BUSH H=19	**100.0501.A**	**0**	1
15	STANDARD XV1 COVER	**100.0268.A**	**0**	1
16	SPACE WASHER ø9x18 H=3	**100.0212.A**	**0**	4
17	WHITE GALVANISED SCREW TE M8x75 UNI 5737 8.8	**531.0008.A**	**L075**	4

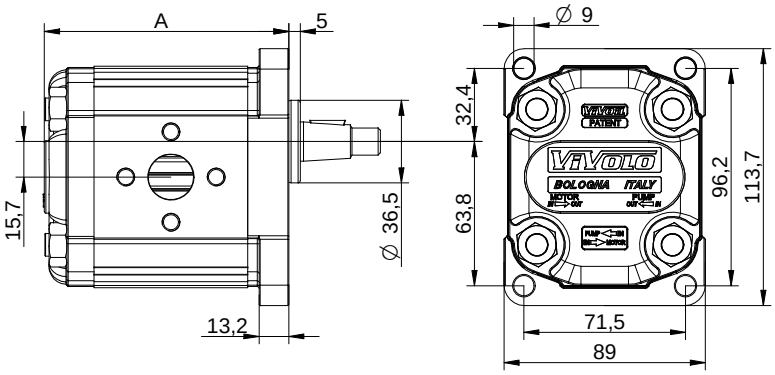
Table of variations

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

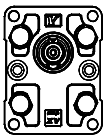
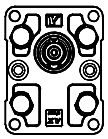
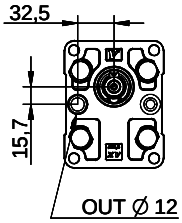
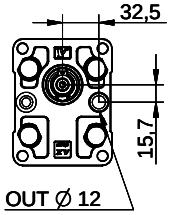
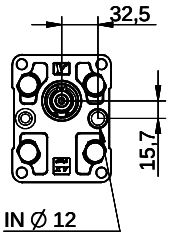
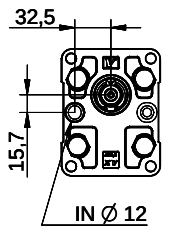
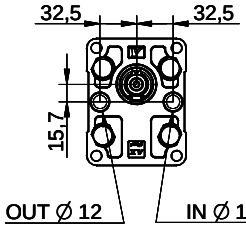
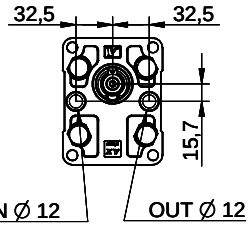
By filling in the missing data you can obtain the complete code of the product to be customised.

X	2	P						

Series		X	series XV
Group		2	group 2
Category		P	unidirectional pump
Displacement			
Flange			
Shaft			
Body	IN		
	OUT		
Cover			



ø36.5 FLANGE

Left rotation	Code	Right rotation	Code
	01		02
	03		04
	05		06
	07		08

Shaft

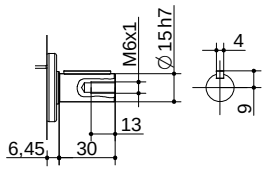
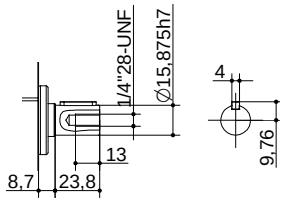
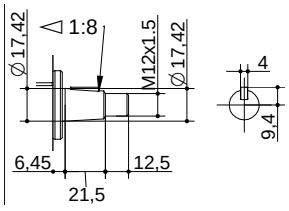
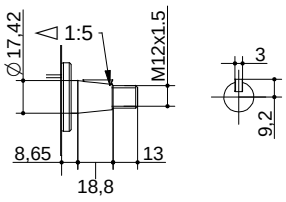
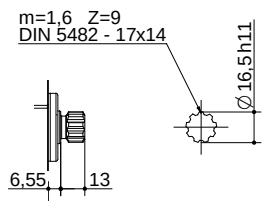
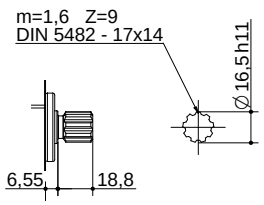
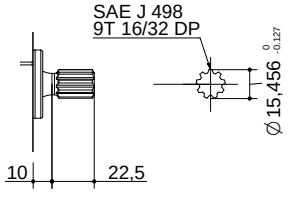
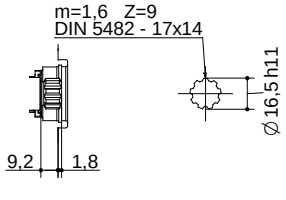
	Code		Code
CI001 - Parallel  T.2 = 44.1 [Nm]	A	CI002 - Parallel  T.2 = 67.5 [Nm]	B
CO001 - Tapered  T.2 = 233.2 [Nm]	E	CO002 - Tapered  T.2 = 233.2 [Nm]	F
SCF02 - Splined  T.2 = 86.1 [Nm]	G	SCF03 - Splined  T.2 = 86.1 [Nm]	H
SCF04 - Splined  T.2 = 67.1 [Nm]	I	SCF01 - Splined  T.2 = 86.2 [Nm]	L

Table of variations

Displacement

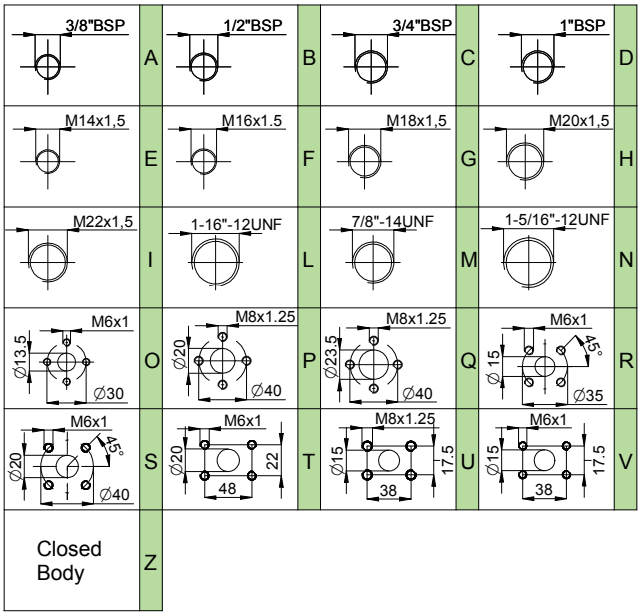
TYPE	CODE	A
		mm
XV-2P/04	**41**	87,2
XV-2P/06	**43**	90,2
XV-2P/09	**45**	94,2
XV-2P/11	**47**	98,2
XV-2P/14	**49**	104,2
XV-2P/17	**51**	108,2
XV-2P/19	**53**	112,2
XV-2P/22	**55**	118,2
XV-2P/26	**57**	122,2
XV-2P/30	**59**	130,2
XV-2P/34	**61**	137,2
XV-2P/40	**63**	146,2

Standard bodies

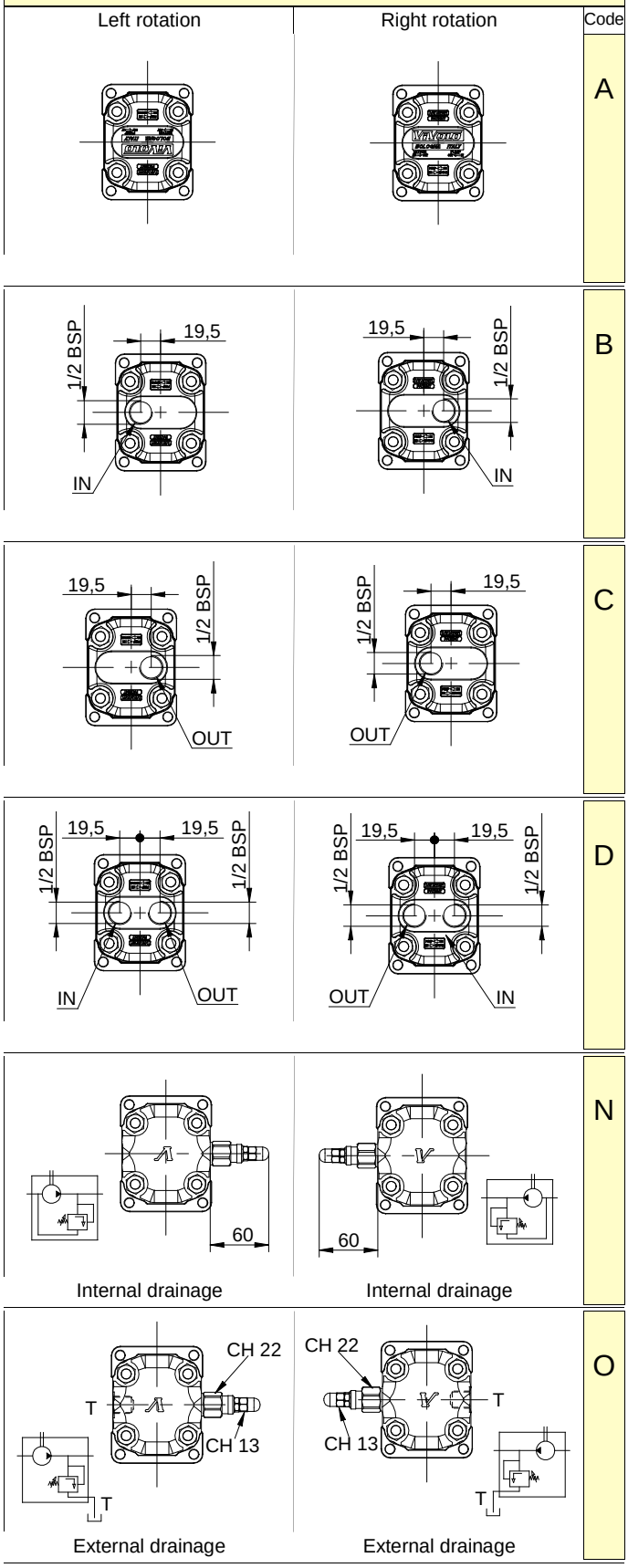
Displacement cm3/rev	Standard threads				
04	O - O	S - R	B - B	L - M	Z - Z
06	O - O	S - R	B - B	L - M	Z - Z
09	O - O	S - R	B - B	L - M	Z - Z
11	O - O	S - R	B - B	L - M	Z - Z
14	P - O	S - R	C - B	L - M	Z - Z
17	P - O	S - R	C - B	L - M	Z - Z
19	P - O	S - R	C - B	L - M	Z - Z
22	P - O	S - R	C - B	L - M	Z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

Table showing standard flange and thread combinations available in stock

Body (threads/flanges)



Cover



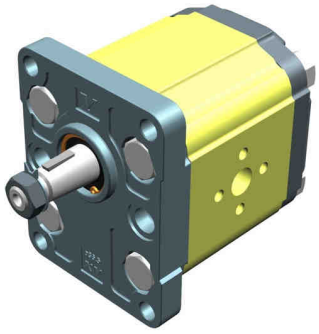
unidirectional pump - series XV

XV-2P

STANDARD EUROPEAN PUMP
ø36.5 FLANGE - TAPER SHAFT

X	2	P	51	02	E	P	O	A

Series		X	series XV
Group		2	group 2
Category		P	unidirectional pump
Displacement		51	17
Flange		02	Ø36.5 STANDARD EUROPEAN right rotation
Shaft		E	CO001 - Tapered 1:8 - ø17.4 - M12x1.5 - key thk.4
Body	IN	P	inlet - Ø40 Ø20 M8
	OUT	O	outlet - Ø30 Ø13.5 M6
Cover		A	standard



Reference **XP201**

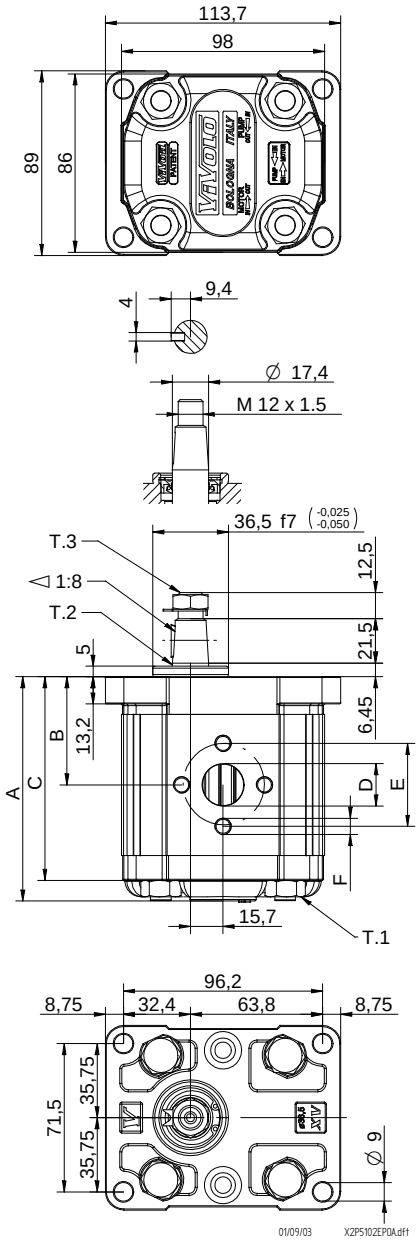
Technical data table

TYPE	Displacement	Max. Pressure		CODE	
	cm3/rev	P1 bar	P3 bar	Left rotation	Right rotation
XV-2P/04	4,20	260	300	X 2 P 41 01 E O O A	X 2 P 41 02 E O O A
XV-2P/06	6,00	260	300	X 2 P 43 01 E O O A	X 2 P 43 02 E O O A
XV-2P/09	8,40	260	300	X 2 P 45 01 E O O A	X 2 P 45 02 E O O A
XV-2P/11	10,80	260	300	X 2 P 47 01 E O O A	X 2 P 47 02 E O O A
XV-2P/14	14,40	250	290	X 2 P 49 01 E P O A	X 2 P 49 02 E P O A
XV-2P/17	16,80	230	270	X 2 P 51 01 E P O A	X 2 P 51 02 E P O A
XV-2P/19	19,20	210	250	X 2 P 53 01 E P O A	X 2 P 53 02 E P O A
XV-2P/22	22,80	200	240	X 2 P 55 01 E P O A	X 2 P 55 02 E P O A
XV-2P/26	26,20	170	210	X 2 P 57 01 E Q P A	X 2 P 57 02 E Q P A
XV-2P/30	30,00	160	200	X 2 P 59 01 E Q P A	X 2 P 59 02 E Q P A
XV-2P/34	34,20	150	190	X 2 P 61 01 E Q P A	X 2 P 61 02 E Q P A
XV-2P/40	39,60	140	180	X 2 P 63 01 E Q P A	X 2 P 63 02 E Q P 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	E	F	D	E	F
	kg	mm	mm	mm	IN			OUT		
XV-2P/04	2,200	87,2	41,7	77,2	ø13,5	30	M6x1	ø13,5	30	M6x1
XV-2P/06	2,300	90,2	43,2	80,2	ø13,5	30	M6x1	ø13,5	30	M6x1
XV-2P/09	2,400	94,2	45,2	84,2	ø13,5	30	M6x1	ø13,5	30	M6x1
XV-2P/11	2,500	98,2	47,2	88,2	ø13,5	30	M6x1	ø13,5	30	M6x1
XV-2P/14	2,700	104,2	50,2	94,2	ø20	40	M8X1,25	ø13,5	30	M6x1
XV-2P/17	2,800	108,2	52,2	98,2	ø20	40	M8X1,25	ø13,5	30	M6x1
XV-2P/19	2,900	112,2	54,2	102,2	ø20	40	M8X1,25	ø13,5	30	M6x1
XV-2P/22	3,050	118,2	57,2	108,2	ø20	40	M8X1,25	ø13,5	30	M6x1
XV-2P/26	3,150	122,2	59,2	112,2	ø23,5	40	M8X1,25	ø20	40	M8X1,25
XV-2P/30	3,400	130,2	63,2	120,2	ø23,5	40	M8X1,25	ø20	40	M8X1,25
XV-2P/34	3,600	137,2	66,7	127,2	ø23,5	40	M8X1,25	ø20	40	M8X1,25
XV-2P/40	3,800	146,2	71,2	136,2	ø23,5	40	M8X1,25	ø20	40	M8X1,25

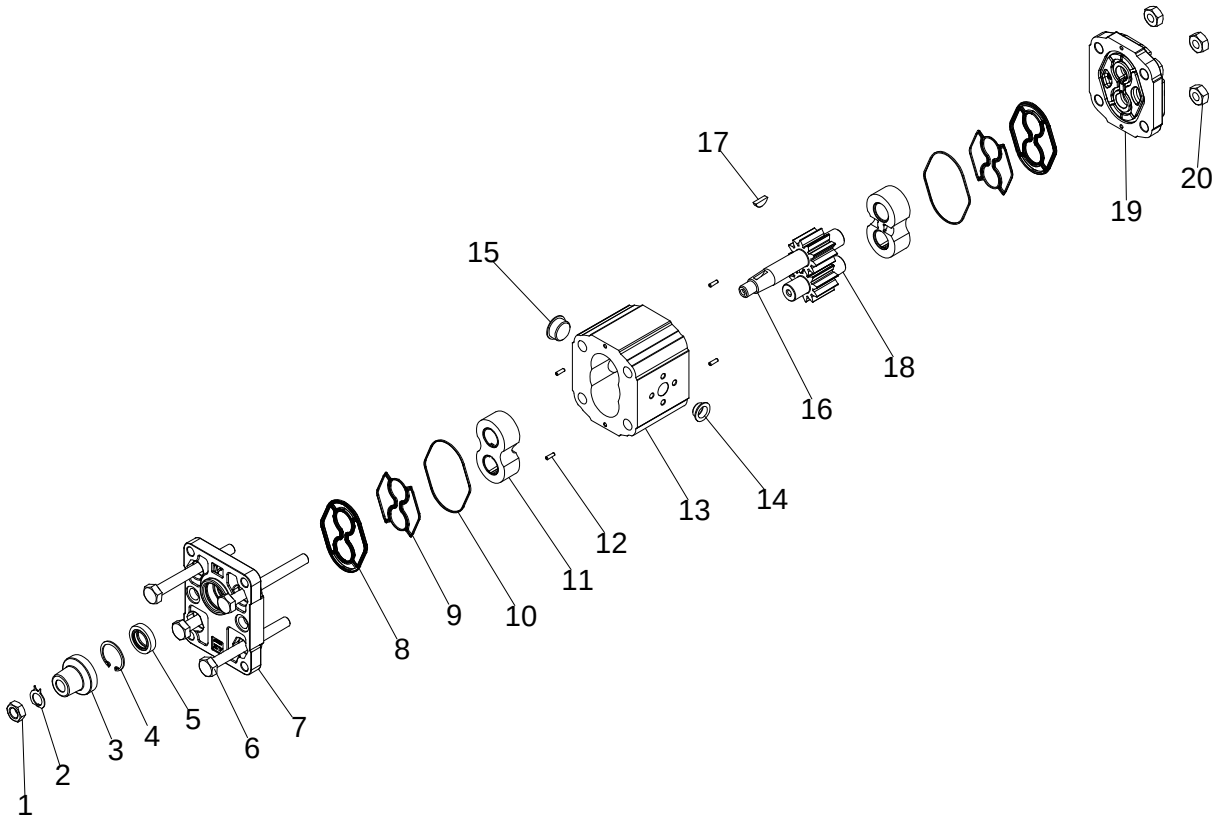


T.1 = 54÷58.9 [Nm] - screw tightening torque M10 T.3 = 40 [Nm] - torque wrench setting 19
T.2 = 233.2 [Nm] - admissible shaft torque (N.B. When choosing a shaft, always check the admissible torque).

Reference	XP201

Example of ordering code:

X2P5102EPOA XV2P/17 - Ø36.5 /D - CO001 - Ø40 M8 - Ø30 M6 - .



Basic list

Pos.	Item description	Item	Size	Quantity
1	NUT M12x1,5 H=7 CH.17	**200.0157.A**	**0**	1
2	TAB WASHER ø12,5xø19 - CO001-CO002 XV2	**200.0150.A**	**0**	1
3	KEY PROTECTION XV2	**590.0010.A**	**0**	1
4	ø29 INTERNAL SNAP RING DIN 472	**560.0020.A**	**0**	1
5	OIL SEAL 17.46 x 28.58 x 5.8/6.3 TCV (BAB SL)	**690.0030.A**	**0**	1
6	WHITE GALVANISED SCREW TE M10x105 UNI 5737 8.8	**531.0010.A**	**L105**	4
7	XV2 ø36,5 FLANGE	**200.0238.A**	**0**	1
8	INJECTION-MOLDED SEAL XV2 (NBR 70÷75 SH)	**200.0190.C**	**0**	2
9	XV2 BACK-UP ELEMENT FOR BALANCING	**200.0191.A**	**0**	2
10	EXTERNAL BACK-UP ELEMENT XV2	**200.0194.A**	**0**	2
11	KV2P BUSH H=20	**200.0012.A**	**0**	2
12	PIN ø3x9,8	**570.0005.A**	**0**	4
13	STANDARD CROSS FLANGED BODY - cc=17	**200.0006.A**	**H68**	1
14	PLASTIC PLUG ø14	**580.0001.A**	**D14**	1
15	PLASTIC PLUG ø21	**580.0001.A**	**D21**	1
16	CO001 - TAPERED 1÷8 DRIVING GEAR	**200.0009.A**	**CC17**	1
17	WOODRUFF KEY ø16x4 H=6,5	**200.0141.A**	**0**	1
18	COND2 - PERFORATED DRIVEN GEAR	**200.0010.A**	**CC17**	1
19	STANDARD XV2 COVER	**200.0237.A**	**0**	1
20	WHITE GALVANISED NUT M10 H=10 UNI 5587	**540.0005.A**	**0**	4

unidirectional pump - series XV

XV-2P

STANDARD EUROPEAN PUMP
ø36.5 FLANGE - TAPER SHAFT

X	2	P	51	02	E	C	B	A

Series		X	series XV
Group		2	group 2
Category		P	unidirectional pump
Displacement		51	17
Flange		02	Ø36.5 STANDARD EUROPEAN right rotation
Shaft		E	CO001 - Tapered 1:8 - ø17.4 - M12x1.5 - key thk.4
Body	IN	C	inlet - 3/4" GAS
	OUT	B	outlet - 1/2" GAS
Cover		A	standard

Reference **XP207**

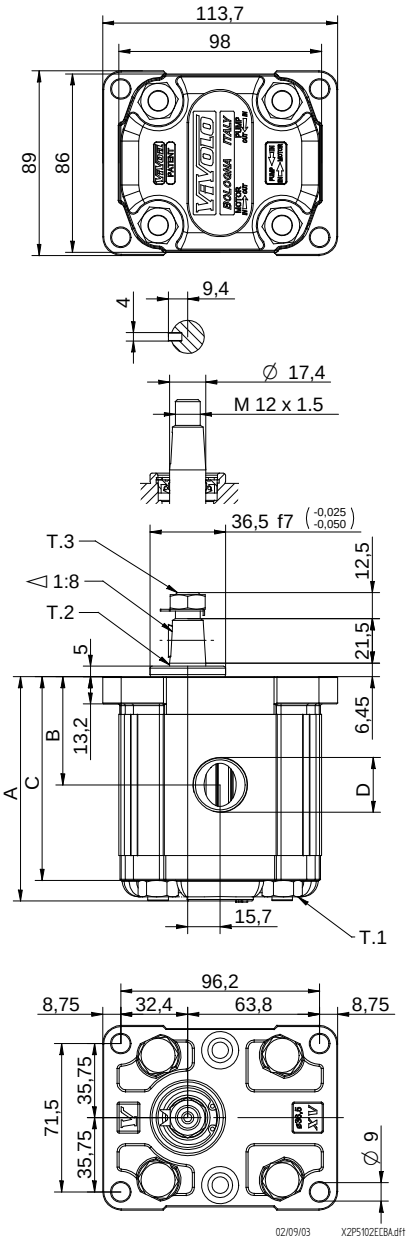
Technical data table

TYPE	Displacement	Max. Pressure		CODE	
	cm3/rev	P1 bar	P3 bar	Left rotation	Right rotation
XV-2P/04	4,20	260	300	X 2 P 41 01 E B B A	X 2 P 41 02 E B B A
XV-2P/06	6,00	260	300	X 2 P 43 01 E B B A	X 2 P 43 02 E B B A
XV-2P/09	8,40	260	300	X 2 P 45 01 E B B A	X 2 P 45 02 E B B A
XV-2P/11	10,80	260	300	X 2 P 47 01 E B B A	X 2 P 47 02 E B B A
XV-2P/14	14,40	250	290	X 2 P 49 01 E C B A	X 2 P 49 02 E C B A
XV-2P/17	16,80	230	270	X 2 P 51 01 E C B A	X 2 P 51 02 E C B A
XV-2P/19	19,20	210	250	X 2 P 53 01 E C B A	X 2 P 53 02 E C B A
XV-2P/22	22,80	200	240	X 2 P 55 01 E C B A	X 2 P 55 02 E C B A
XV-2P/26	26,20	170	210	X 2 P 57 01 E D C A	X 2 P 57 02 E D C A
XV-2P/30	30,00	160	200	X 2 P 59 01 E D C A	X 2 P 59 02 E D C A
XV-2P/34	34,20	150	190	X 2 P 61 01 E D C A	X 2 P 61 02 E D C A
XV-2P/40	39,60	140	180	X 2 P 63 01 E D C A	X 2 P 63 02 E D C 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-2P/04	2,200	87,2	41,7	77,2	1/2" BSPP	1/2" BSPP
XV-2P/06	2,300	90,2	43,2	80,2	1/2" BSPP	1/2" BSPP
XV-2P/09	2,400	94,2	45,2	84,2	1/2" BSPP	1/2" BSPP
XV-2P/11	2,500	98,2	47,2	88,2	1/2" BSPP	1/2" BSPP
XV-2P/14	2,700	104,2	50,2	94,2	3/4" BSPP	1/2" BSPP
XV-2P/17	2,800	108,2	52,2	98,2	3/4" BSPP	1/2" BSPP
XV-2P/19	2,900	112,2	54,2	102,2	3/4" BSPP	1/2" BSPP
XV-2P/22	3,050	118,2	57,2	108,2	3/4" BSPP	1/2" BSPP
XV-2P/26	3,150	122,2	59,2	112,2	1" BSPP	3/4" BSPP
XV-2P/30	3,400	130,2	63,2	120,2	1" BSPP	3/4" BSPP
XV-2P/34	3,600	137,2	66,7	127,2	1" BSPP	3/4" BSPP
XV-2P/40	3,800	146,2	71,2	136,2	1" BSPP	3/4" BSPP



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

unidirectional pump - series XV

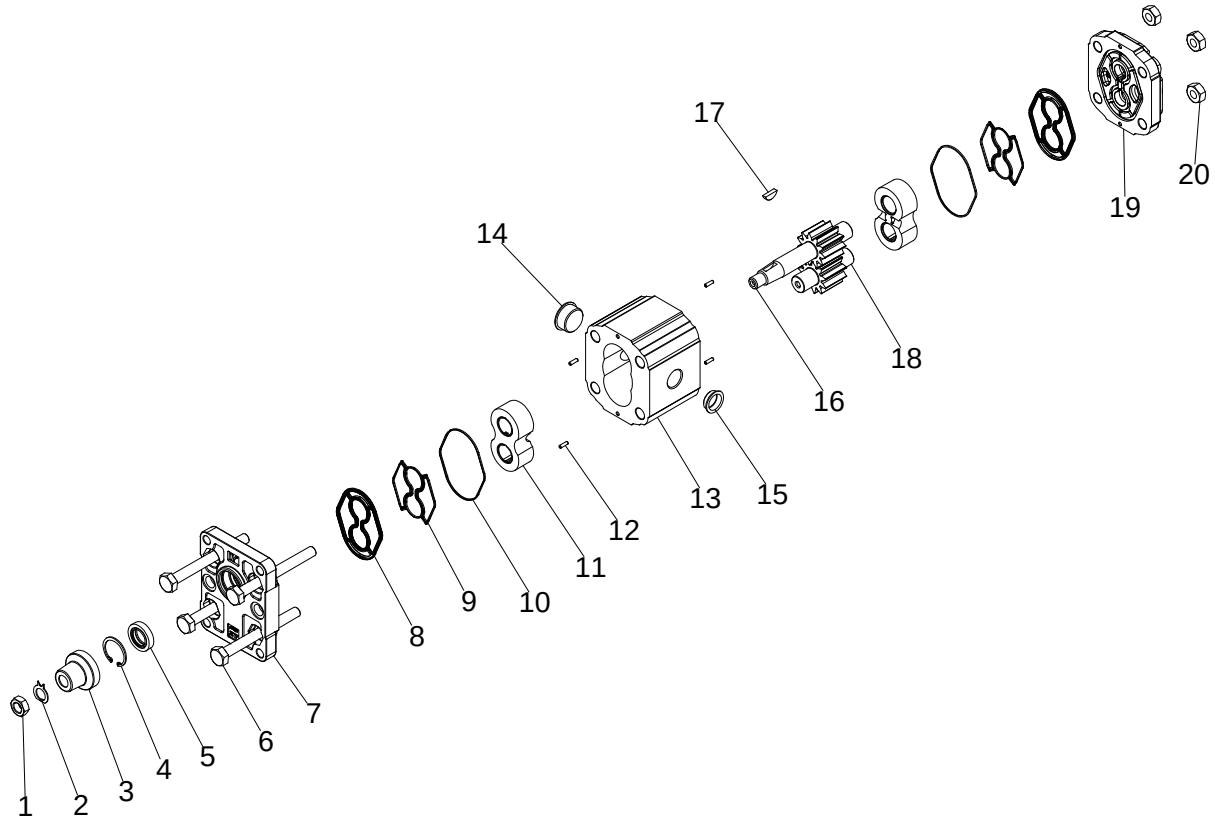
XV-2P

STANDARD EUROPEAN PUMP
ø36.5 FLANGE - TAPER SHAFT

Reference	XP207

Example of ordering code:

X2P5102ECBA XV2P/17 - Ø36.5 /D - CO001 - 3/4" BSP - 1/2" BSP - .



Basic list

Pos.	Item description	Item	Size	Quantity
1	NUT M12x1,5 H=7 CH.17	**200.0157.A**	**0**	1
2	TAB WASHER ø12,5xø19 - CO001-CO002 XV2	**200.0150.A**	**0**	1
3	KEY PROTECTION XV2	**590.0010.A**	**0**	1
4	ø29 INTERNAL SNAP RING DIN 472	**560.0020.A**	**0**	1
5	OIL SEAL 17.46 x 28.58 x 5.8/6.3 TCV (BAB SL)	**690.0030.A**	**0**	1
6	WHITE GALVANISED SCREW TE M10x105 UNI 5737 8.8	**531.0010.A**	**L105**	4
7	XV2 ø36,5 FLANGE	**200.0238.A**	**0**	1
8	INJECTION-MOLDED SEAL XV2 (NBR 70÷75 SH)	**200.0190.C**	**0**	2
9	XV2 BACK-UP ELEMENT FOR BALANCING	**200.0191.A**	**0**	2
10	EXTERNAL BACK-UP ELEMENT XV2	**200.0194.A**	**0**	2
11	KV2P BUSH H=20	**200.0012.A**	**0**	2
12	PIN ø3x9,8	**570.0005.A**	**0**	4
13	BODY W/THREAD BSP STANDARD - cc=17	**200.0038.A**	**H68**	1
14	PLASTIC PLUG ø25	**580.0001.A**	**D25**	1
15	PLASTIC PLUG ø19	**580.0001.A**	**D19**	1
16	CO001 - TAPERED 1÷8 DRIVING GEAR	**200.0009.A**	**CC17**	1
17	WOODRUFF KEY ø16x4 H=6,5	**200.0141.A**	**0**	1
18	COND2 - PERFORATED DRIVEN GEAR	**200.0010.A**	**CC17**	1
19	STANDARD XV2 COVER	**200.0237.A**	**0**	1
20	WHITE GALVANISED NUT M10 H=10 UNI 5587	**540.0005.A**	**0**	4

Table of variations

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

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

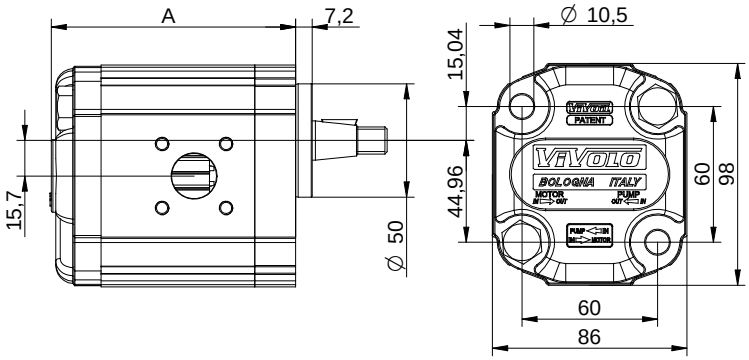
X	2	P						

Series		X
Group		2
Category		P
Displacement		
Flange		
Shaft		
Body	IN	
	OUT	
Cover		

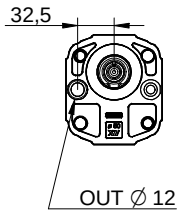
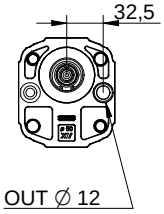
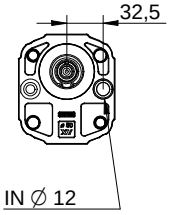
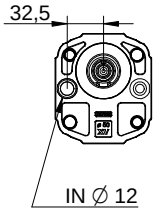
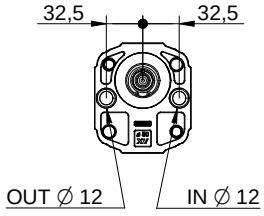
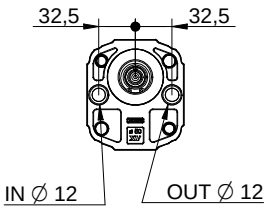
series XV

group 2

unidirectional pump



ø50 "BH" Body-Shaped FLANGE

Left rotation	Code	Right rotation	Code
	11		12
	13		14
	15		16
	17		18

Shaft

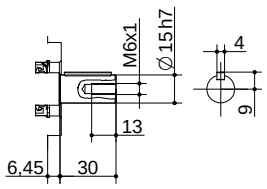
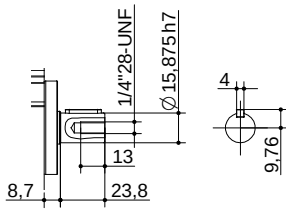
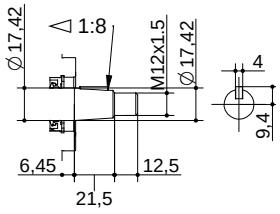
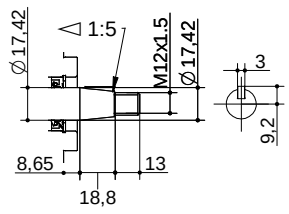
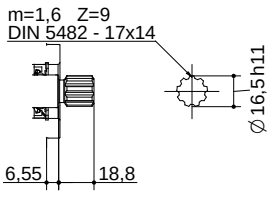
	Code		Code
CI001 - Parallel  T.2 = 44.1 [Nm]	A	CI002 - Parallel  T.2 = 67.5 [Nm]	B
CO001 - Tapered  T.2 = 233.2 [Nm]	E	CO002 - Tapered  T.2 = 233.2 [Nm]	F
SCF03 - Splined  T.2 = 86.1 [Nm]	H		Z

Table of variations

Displacement

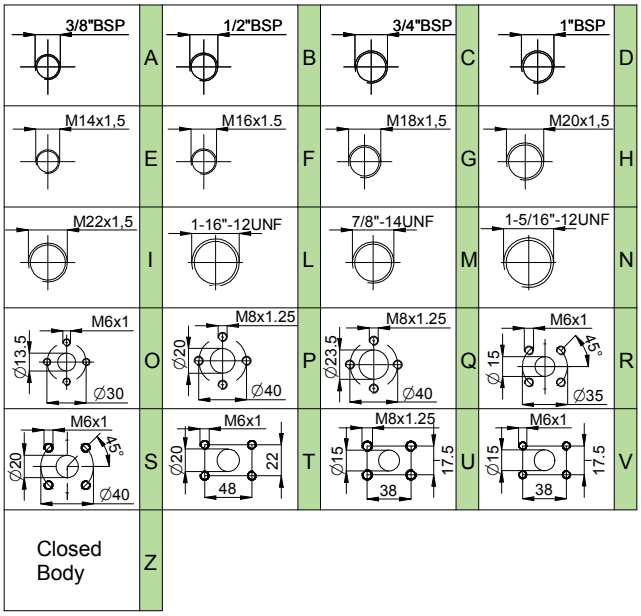
TYPE	CODE	A
		mm
XV-2P/04	**41**	87,2
XV-2P/06	**43**	90,2
XV-2P/09	**45**	94,2
XV-2P/11	**47**	98,2
XV-2P/14	**49**	104,2
XV-2P/17	**51**	108,2
XV-2P/19	**53**	112,2
XV-2P/22	**55**	118,2
XV-2P/26	**57**	122,2
XV-2P/30	**59**	130,2
XV-2P/34	**61**	137,2
XV-2P/40	**63**	146,2

Standard bodies

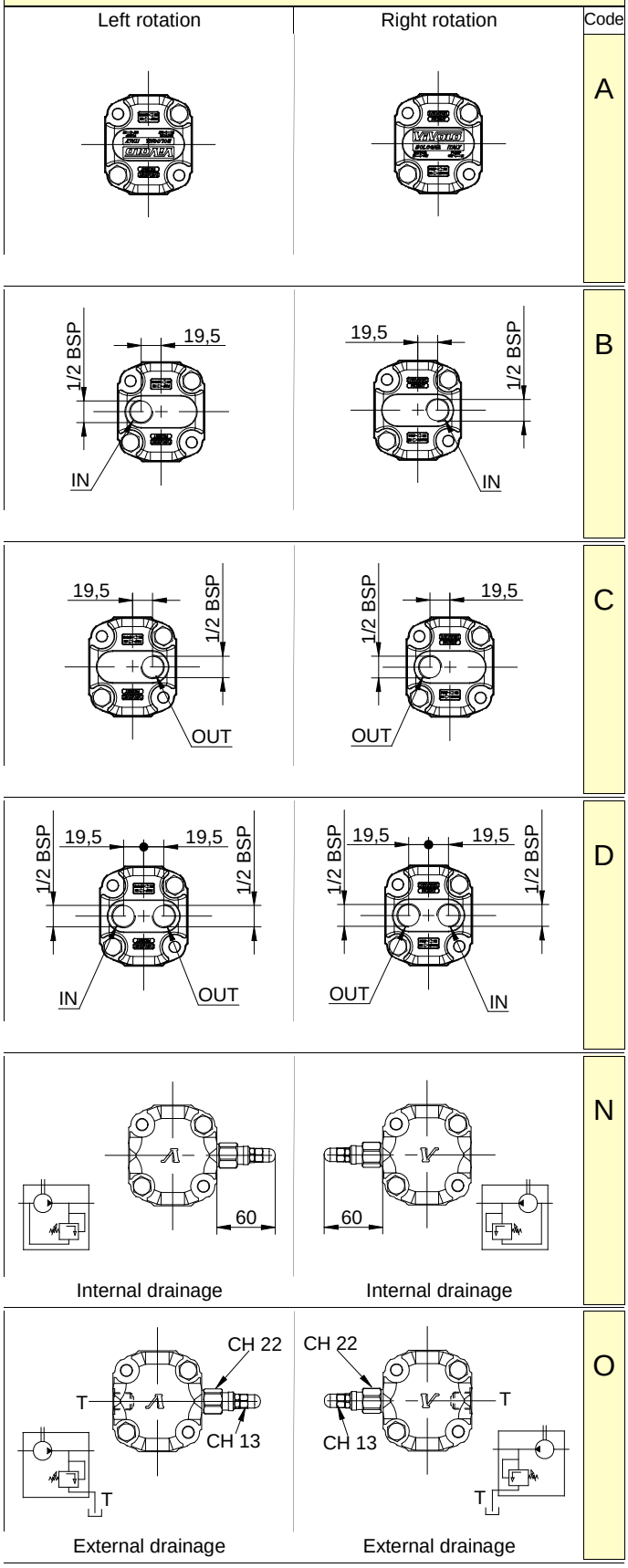
Displacement	Standard threads				
cm3/rev					
04	O - O	S - R	B - B	L - M	Z - Z
06	O - O	S - R	B - B	L - M	Z - Z
09	O - O	S - R	B - B	L - M	Z - Z
11	O - O	S - R	B - B	L - M	Z - Z
14	P - O	S - R	C - B	L - M	Z - Z
17	P - O	S - R	C - B	L - M	Z - Z
19	P - O	S - R	C - B	L - M	Z - Z
22	P - O	S - R	C - B	L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

Table showing standard flange and thread combinations available in stock

Body (threads/flanges)



Cover



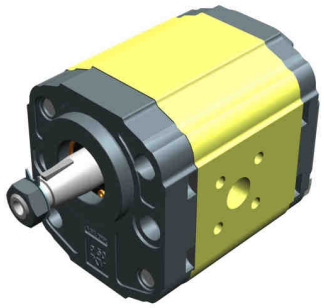
unidirectional pump - series XV

XV-2P

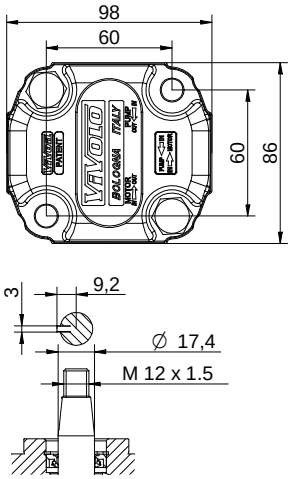
"BH" TYPE PUMP
ø50 BODY-SHAPED FLANGE - TAPER SHAFT

X	2	P	51	12	F	S	R	A

Series		X	series XV
Group		2	group 2
Category		P	unidirectional pump
Displacement		51	17
Flange		12	Ø50 BH GERMAN STARDARDIZED right rotation
Shaft		F	CO002 - Tapered 1:5 - ø17.4 - M12x1.5 - key thk.3
Body	IN	S	inlet - Ø40 a 45° Ø20 M6
	OUT	R	outlet - Ø35 a 45° Ø15 M6
Cover		A	standard



Reference **XP210**



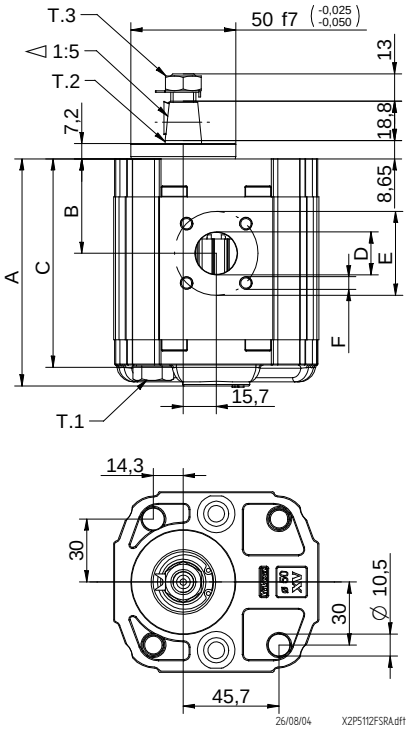
Technical data table

TYPE	Displacement	Max. Pressure		CODE	
	cm3/rev	P1 bar	P3 bar	Left rotation	Right rotation
XV-2P/04	4,20	260	300	X 2 P 41 11 F S R A	X 2 P 41 12 F S R A
XV-2P/06	6,00	260	300	X 2 P 43 11 F S R A	X 2 P 43 12 F S R A
XV-2P/09	8,40	260	300	X 2 P 45 11 F S R A	X 2 P 45 12 F S R A
XV-2P/11	10,80	260	300	X 2 P 47 11 F S R A	X 2 P 47 12 F S R A
XV-2P/14	14,40	250	290	X 2 P 49 11 F S R A	X 2 P 49 12 F S R A
XV-2P/17	16,80	230	270	X 2 P 51 11 F S R A	X 2 P 51 12 F S R A
XV-2P/19	19,20	210	250	X 2 P 53 11 F S R A	X 2 P 53 12 F S R A
XV-2P/22	22,80	200	240	X 2 P 55 11 F S R A	X 2 P 55 12 F S R A
XV-2P/26	26,20	170	210	X 2 P 57 11 F S R A	X 2 P 57 12 F S R A
XV-2P/30	30,00	160	200	X 2 P 59 11 F S S A	X 2 P 59 12 F S S A
XV-2P/34	34,20	150	190	X 2 P 61 11 F S S A	X 2 P 61 12 F S S A
XV-2P/40	39,60	140	180	X 2 P 63 11 F S S A	X 2 P 63 12 F S S 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	E	F	D	E	F
	kg	mm	mm	mm	IN			OUT		
XV-2P/04	2,100	87,2	38,6	77,2	ø20	40	M6x1	ø15	35	M6x1
XV-2P/06	2,200	90,2	38,6	80,2	ø20	40	M6x2	ø15	35	M6x1
XV-2P/09	2,300	94,2	40,6	84,2	ø20	40	M6x3	ø15	35	M6x1
XV-2P/11	2,400	98,2	45,0	88,2	ø20	40	M6x4	ø15	35	M6x1
XV-2P/14	2,600	104,2	45,0	94,2	ø20	40	M6x5	ø15	35	M6x1
XV-2P/17	2,700	108,2	45,0	98,2	ø20	40	M6x6	ø15	35	M6x1
XV-2P/19	2,800	112,2	45,0	102,2	ø20	40	M6x7	ø15	35	M6x1
XV-2P/22	2,950	118,2	52,5	108,2	ø20	40	M6x8	ø15	35	M6x1
XV-2P/26	3,050	122,2	52,5	112,2	ø20	40	M6x9	ø15	35	M6x1
XV-2P/30	3,300	130,2	60,7	120,2	ø20	40	M6x10	ø20	40	M6x1
XV-2P/34	3,500	137,2	60,7	127,2	ø20	40	M6x11	ø20	40	M6x1
XV-2P/40	3,700	146,2	60,7	136,2	ø20	40	M6x12	ø20	40	M6x1



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

unidirectional pump - series XV

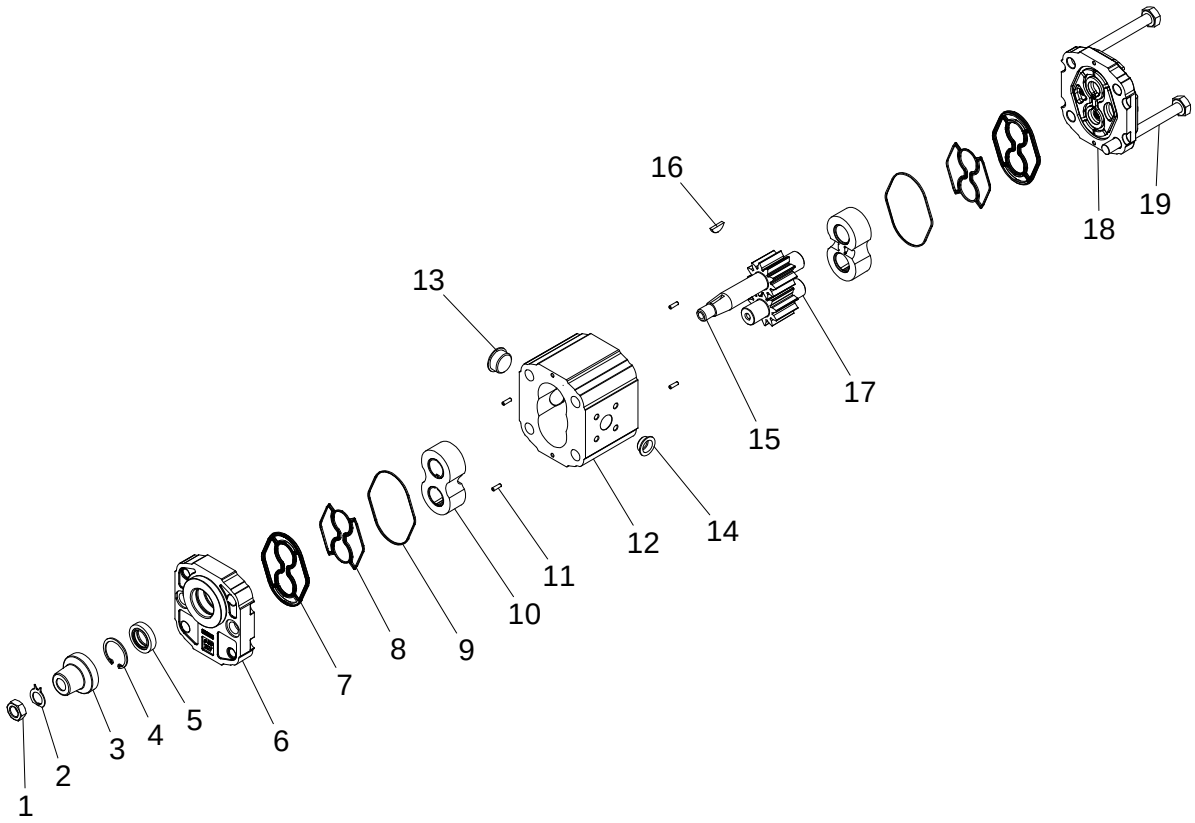
XV-2P

"BH" TYPE PUMP
ø50 BODY-SHAPED FLANGE - TAPER SHAFT

Reference	XP210

Example of ordering code:

X2P5112FSRA XV2P/17 - Ø50 BH /D - CO002 - Ø40 M6 # - Ø35 M6 # - .



Basic list				
Pos.	**Item description**	**Item**	**Size**	**Quantity**
1	NUT M12x1,5 H=7 CH.17	**200.0157.A**	**0**	1
2	TAB WASHER ø12,5xø19 - CO001-CO002 XV2	**200.0150.A**	**0**	1
3	KEY PROTECTION XV2	**590.0010.A**	**0**	1
4	ø29 INTERNAL SNAP RING DIN 472	**560.0020.A**	**0**	1
5	OIL SEAL 17.46 x 28.58 x 5.8/6.3 TCV (BAB SL)	**690.0030.A**	**0**	1
6	XV2 ø50 BH FLANGE	**200.0254.A**	**0**	1
7	INJECTION-MOLDED SEAL XV2 (NBR 70÷75 SH)	**200.0190.C**	**0**	2
8	XV2 BACK-UP ELEMENT FOR BALANCING	**200.0191.A**	**0**	2
9	EXTERNAL BACK-UP ELEMENT XV2	**200.0194.A**	**0**	2
10	KV2P BUSH H=20	**200.0012.A**	**0**	2
11	PIN ø3x9,8	**570.0005.A**	**0**	4
12	STANDARD BOSCH FLANGED BODY - cc=17	**200.0005.A**	**H68**	1
13	PLASTIC PLUG ø21	**580.0001.A**	**D21**	1
14	PLASTIC PLUG ø15,5	**580.0001.A**	**D15,5**	1
15	CO002 BOSCH - TAPERED 1÷5 DRIVING GEAR	**200.0047.A**	**CC17**	1
16	WOODRUFF KEY ø16x3 H=6,5	**200.0142.A**	**0**	1
17	COND2 - PERFORATED DRIVEN GEAR	**200.0010.A**	**CC17**	1
18	STANDARD XV2 COVER	**200.0237.A**	**0**	1
19	WHITE GALVANISED SCREW TE M10x95 UNI 5737 8.8	**531.0010.A**	**L095**	2

Table of variations

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

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

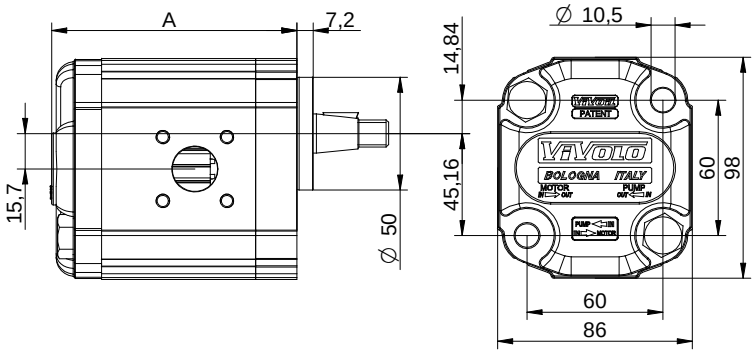
X	2	P						

Series		X
Group		2
Category		P
Displacement		
Flange		
Shaft		
Body	IN	
	OUT	
Cover		

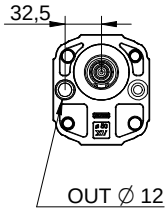
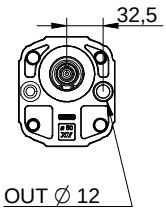
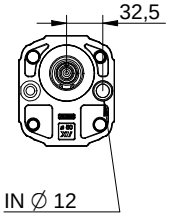
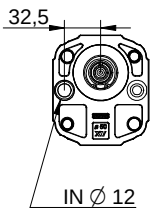
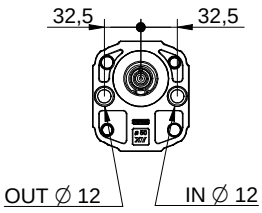
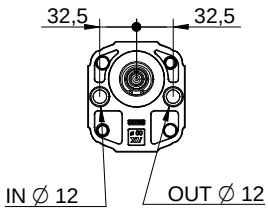
series XV

group 2

unidirectional pump



ø50 "HY" Body-Shaped FLANGE

Left rotation	Code	Right rotation	Code
	21		22
	23		24
	25		26
	27		28

Shaft

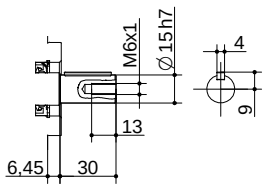
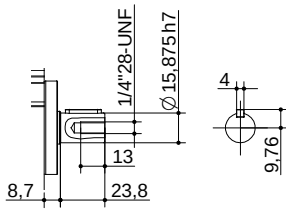
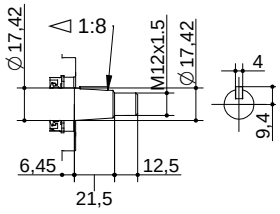
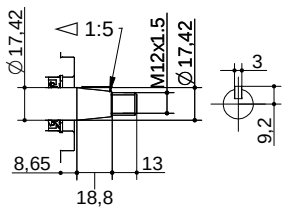
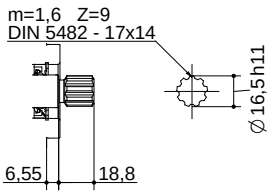
	Code		Code
CI001 - Parallel  T.2 = 44.1 [Nm]	A	CI002 - Parallel  T.2 = 67.5 [Nm]	B
CO001 - Tapered  T.2 = 233.2 [Nm]	E	CO002 - Tapered  T.2 = 233.2 [Nm]	F
SCF03 - Splined  T.2 = 86.1 [Nm]	H		Z

Table of variations

Displacement

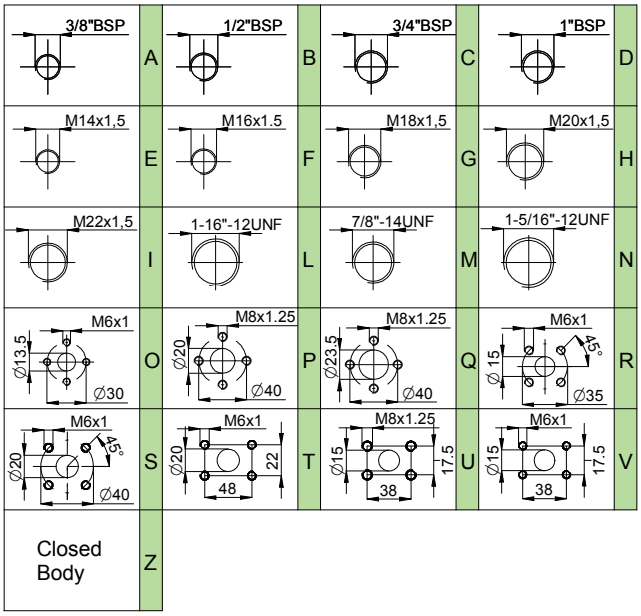
TYPE	CODE	A
		mm
XV-2P/04	**41**	87,2
XV-2P/06	**43**	90,2
XV-2P/09	**45**	94,2
XV-2P/11	**47**	98,2
XV-2P/14	**49**	104,2
XV-2P/17	**51**	108,2
XV-2P/19	**53**	112,2
XV-2P/22	**55**	118,2
XV-2P/26	**57**	122,2
XV-2P/30	**59**	130,2
XV-2P/34	**61**	137,2
XV-2P/40	**63**	146,2

Standard bodies

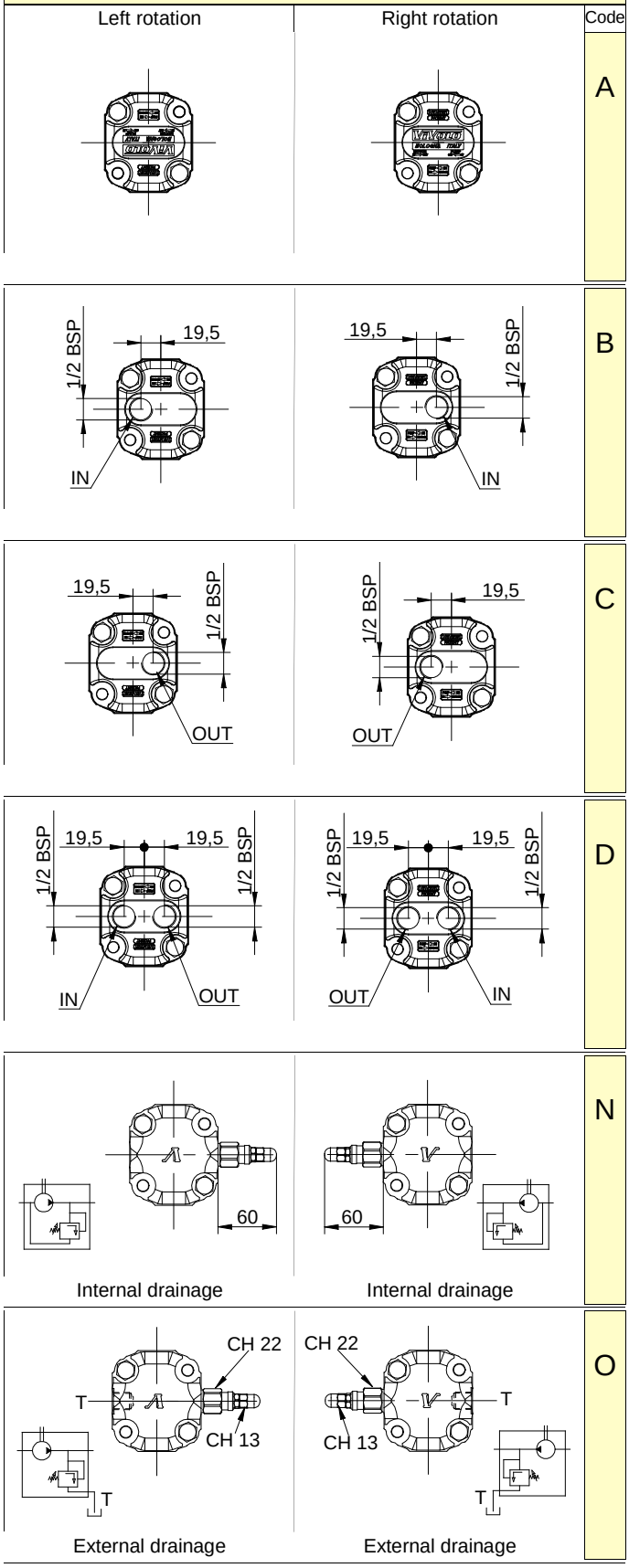
Displacement	Standard threads				
cm3/rev					
04	O - O	S - R	B - B	L - M	Z - Z
06	O - O	S - R	B - B	L - M	Z - Z
09	O - O	S - R	B - B	L - M	Z - Z
11	O - O	S - R	B - B	L - M	Z - Z
14	P - O	S - R	C - B	L - M	Z - Z
17	P - O	S - R	C - B	L - M	Z - Z
19	P - O	S - R	C - B	L - M	Z - Z
22	P - O	S - R	C - B	L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

Table showing standard flange and thread combinations available in stock

Body (threads/flanges)



Cover



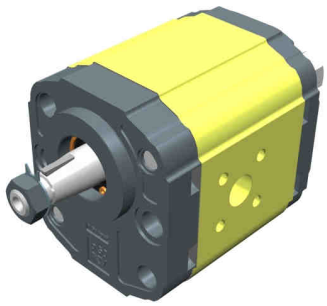
unidirectional pump - series XV

XV-2P

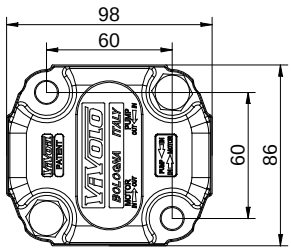
"HY" TYPE PUMP
ø50 BODY-SHAPED FLANGE - TAPER SHAFT

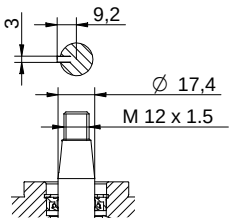
X	2	P	51	22	F	S	R	A

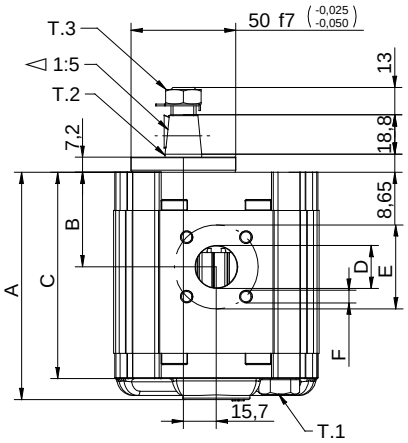
Series		X	series XV
Group		2	group 2
Category		P	unidirectional pump
Displacement		51	17
Flange		22	Ø50 HY GERMAN STARDARDIZED right rotation
Shaft		F	CO002 - Tapered 1:5 - ø17.4 - M12x1.5 - key thk.3
Body	IN	S	inlet - Ø40 a 45° Ø20 M6
	OUT	R	outlet - Ø35 a 45° Ø15 M6
Cover		A	standard

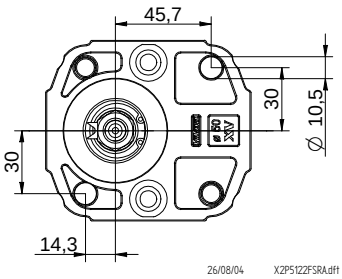


Reference **XP213**









Technical data table

TYPE	Displacement	Max. Pressure		CODE	
	cm3/rev	P1 bar	P3 bar	Left rotation	Right rotation
XV-2P/04	4,20	260	300	X 2 P 41 21 F S R A	X 2 P 41 22 F S R A
XV-2P/06	6,00	260	300	X 2 P 43 21 F S R A	X 2 P 43 22 F S R A
XV-2P/09	8,40	260	300	X 2 P 45 21 F S R A	X 2 P 45 22 F S R A
XV-2P/11	10,80	260	300	X 2 P 47 21 F S R A	X 2 P 47 22 F S R A
XV-2P/14	14,40	250	290	X 2 P 49 21 F S R A	X 2 P 49 22 F S R A
XV-2P/17	16,80	230	270	X 2 P 51 21 F S R A	X 2 P 51 22 F S R A
XV-2P/19	19,20	210	250	X 2 P 53 21 F S R A	X 2 P 53 22 F S R A
XV-2P/22	22,80	200	240	X 2 P 55 21 F S R A	X 2 P 55 22 F S R A
XV-2P/26	26,20	170	210	X 2 P 57 21 F S R A	X 2 P 57 22 F S R A
XV-2P/30	30,00	160	200	X 2 P 59 21 F S S A	X 2 P 59 22 F S S A
XV-2P/34	34,20	150	190	X 2 P 61 21 F S S A	X 2 P 61 22 F S S A
XV-2P/40	39,60	140	180	X 2 P 63 21 F S S A	X 2 P 63 22 F S S 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	E	F	D	E	F
	kg	mm	mm	mm	IN			OUT		
XV-2P/04	2,100	87,2	38,6	77,2	ø20	40	M6x1	ø15	35	M6x1
XV-2P/06	2,200	90,2	38,6	80,2	ø20	40	M6x2	ø15	35	M6x1
XV-2P/09	2,300	94,2	40,6	84,2	ø20	40	M6x3	ø15	35	M6x1
XV-2P/11	2,400	98,2	45,0	88,2	ø20	40	M6x4	ø15	35	M6x1
XV-2P/14	2,600	104,2	45,0	94,2	ø20	40	M6x5	ø15	35	M6x1
XV-2P/17	2,700	108,2	45,0	98,2	ø20	40	M6x6	ø15	35	M6x1
XV-2P/19	2,800	112,2	45,0	102,2	ø20	40	M6x7	ø15	35	M6x1
XV-2P/22	2,950	118,2	52,5	108,2	ø20	40	M6x8	ø15	35	M6x1
XV-2P/26	3,050	122,2	52,5	112,2	ø20	40	M6x9	ø15	35	M6x1
XV-2P/30	3,300	130,2	60,7	120,2	ø20	40	M6x10	ø20	40	M6x1
XV-2P/34	3,500	137,2	60,7	127,2	ø20	40	M6x11	ø20	40	M6x1
XV-2P/40	3,700	146,2	60,7	136,2	ø20	40	M6x12	ø20	40	M6x1

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

unidirectional pump - series XV

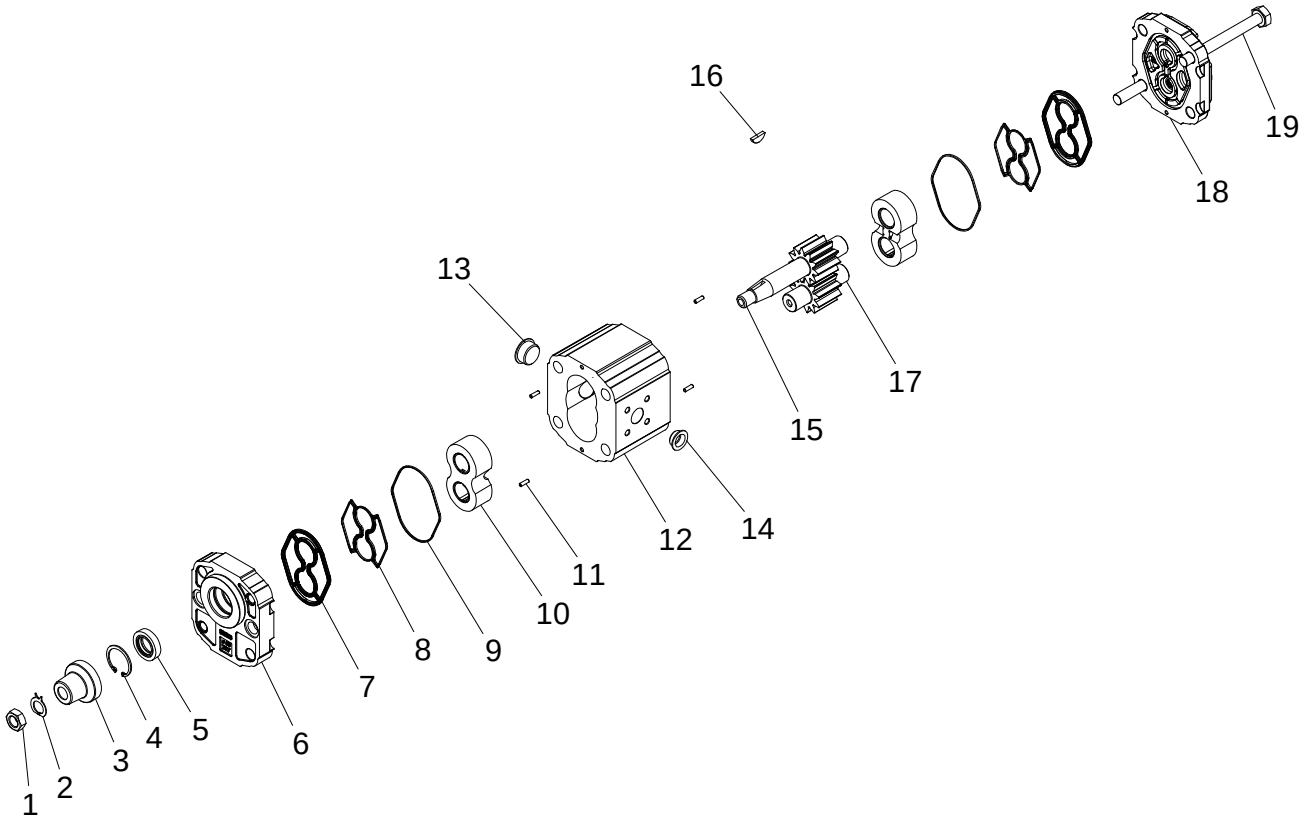
XV-2P

"HY" TYPE PUMP
ø50 BODY-SHAPED FLANGE - TAPER SHAFT

Reference	XP213

Example of ordering code:

X2P5122FSRA XV2P/17 - Ø50 HY /D - CO002 - Ø40 M6 # - Ø35 M6 # - .



Basic list				
Pos.	**Item description**	**Item**	**Size**	**Quantity**
1	NUT M12x1,5 H=7 CH.17	**200.0157.A**	**0**	1
2	TAB WASHER ø12,5xø19 - CO001-CO002 XV2	**200.0150.A**	**0**	1
3	KEY PROTECTION XV2	**590.0010.A**	**0**	1
4	ø29 INTERNAL SNAP RING DIN 472	**560.0020.A**	**0**	1
5	OIL SEAL 17.46 x 28.58 x 5.8/6.3 TCV (BAB SL)	**690.0030.A**	**0**	1
6	XV2 ø50 HY FLANGE	**200.0255.A**	**0**	1
7	INJECTION-MOLDED SEAL XV2 (NBR 70÷75 SH)	**200.0190.C**	**0**	2
8	XV2 BACK-UP ELEMENT FOR BALANCING	**200.0191.A**	**0**	2
9	EXTERNAL BACK-UP ELEMENT XV2	**200.0194.A**	**0**	2
10	KV2P BUSH H=20	**200.0012.A**	**0**	2
11	PIN ø3x9,8	**570.0005.A**	**0**	4
12	STANDARD BOSCH FLANGED BODY - cc=17	**200.0005.A**	**H68**	1
13	PLASTIC PLUG ø21	**580.0001.A**	**D21**	1
14	PLASTIC PLUG ø15,5	**580.0001.A**	**D15,5**	1
15	CO002 BOSCH - TAPERED 1÷5 DRIVING GEAR	**200.0047.A**	**CC17**	1
16	WOODRUFF KEY ø16x3 H=6,5	**200.0142.A**	**0**	1
17	COND2 - PERFORATED DRIVEN GEAR	**200.0010.A**	**CC17**	1
18	STANDARD XV2 COVER	**200.0237.A**	**0**	1
19	WHITE GALVANISED SCREW TE M10x95 UNI 5737 8.8	**531.0010.A**	**L095**	2

Standard German ø52 "BH" FLANGE

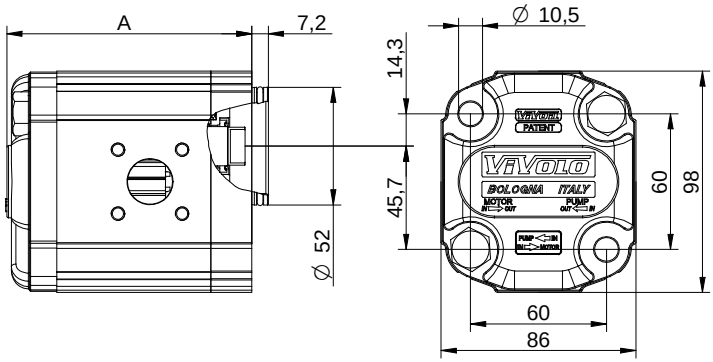
Table of variations

These two pages provide an overview of all the possible variations for customising a pump with a ø52 "BH" Standard German flange.

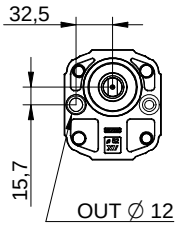
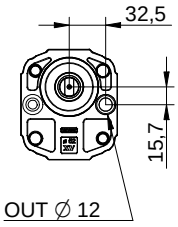
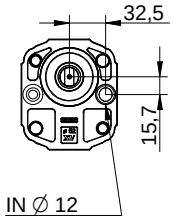
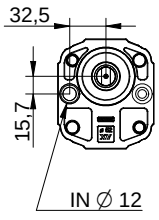
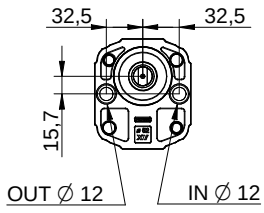
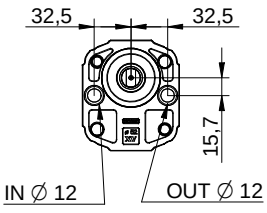
By filling in the missing data you can obtain the complete code of the product to be customised.

X	2	P						

Series		X	series XV
Group		2	group 2
Category		P	unidirectional pump
Displacement			
Flange			
Shaft			
Body	IN		
	OUT		
Cover			



Standard German ø52 "BH" FLANGE

Left rotation	Code	Right rotation	Code
	31		32
	33		34
	35		36
	37		38

Shaft

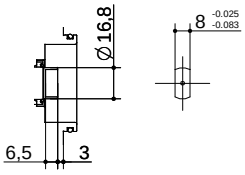
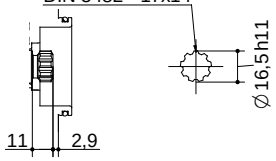
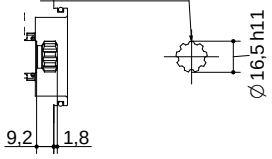
	Code		Code
CF001 - Milled shank  T.2 = 60.5 [Nm]	C	SCF05 - Splined m=1,6 Z=9 DIN 5482 - 17x14  T.2 = 86.2 [Nm]	K
SCF01 - Splined m=1,6 Z=9 DIN 5482 - 17x14  T.2 = 86.2 [Nm]	L		Z

Table of variations

Displacement

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

Standard bodies

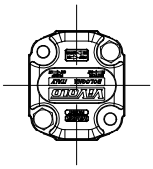
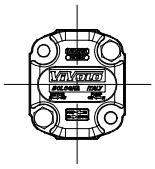
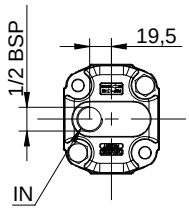
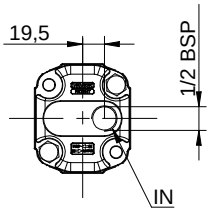
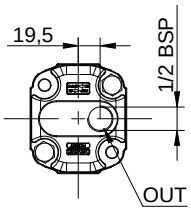
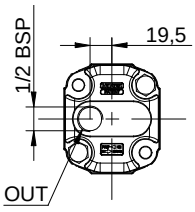
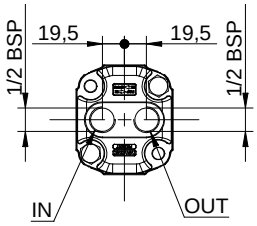
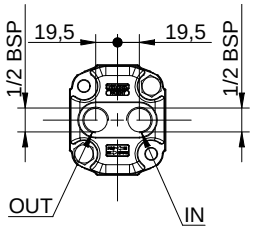
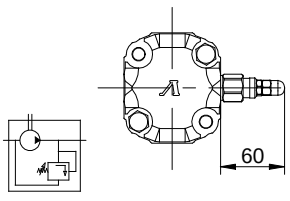
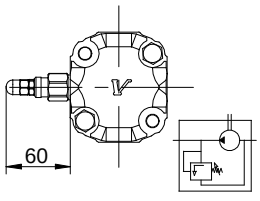
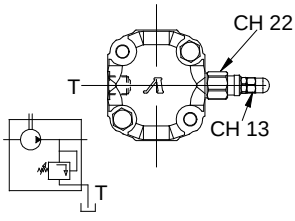
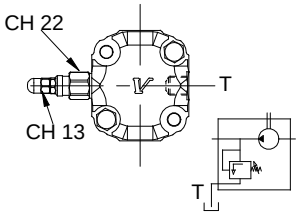
Displacement	Standard threads				
cm3/rev					
04	O - O	S - R	B - B	L - M	Z - Z
06	O - O	S - R	B - B	L - M	Z - Z
09	O - O	S - R	B - B	L - M	Z - Z
11	O - O	S - R	B - B	L - M	Z - Z
14	P - O	S - R	C - B	L - M	Z - Z
17	P - O	S - R	C - B	L - M	Z - Z
19	P - O	S - R	C - B	L - M	Z - Z
22	P - O	S - R	C - B	L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

Table showing standard flange and thread combinations available in stock

Body (threads/flanges)

3/8"BSP	A	1/2"BSP	B	3/4"BSP	C	1"BSP	D
M14x1,5	E	M16x1.5	F	M18x1,5	G	M20x1,5	H
M22x1,5	I	1-16"-12UNF	L	7/8"-14UNF	M	1-5/16"-12UNF	N
M6x1 Ø13.5 Ø30	O	M8x1.25 Ø20 Ø40	P	M8x1.25 Ø23.5 Ø40	Q	M6x1 45° Ø15 Ø35	R
M6x1 45° Ø20 Ø40	S	M6x1 Ø20 48 22	T	M8x1.25 Ø15 38 17.5	U	M6x1 Ø15 38 17.5	V
Closed Body	Z						

Cover

Left rotation	Right rotation	Code
		A
		B
		C
		D
 Internal drainage	 Internal drainage	N
 External drainage	 External drainage	O

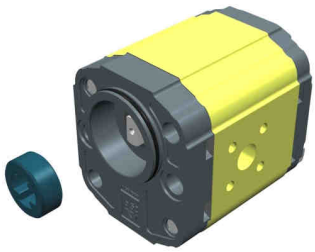
unidirectional pump - series XV

XV-2P

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

X	2	P	51	32	C	S	R	A

Series		X	series XV
Group		2	group 2
Category		P	unidirectional pump
Displacement		51	17
Flange		32	Ø52 BH GERMAN STARDARDIZED right rotation (with OR)
Shaft		C	CF001 - Milled shank ø15 - thk.8 ("BH" Standard German)
Body	IN	S	inlet - Ø40 a 45° Ø20 M6
	OUT	R	outlet - Ø35 a 45° Ø15 M6
Cover		A	standard



Reference **XP216**

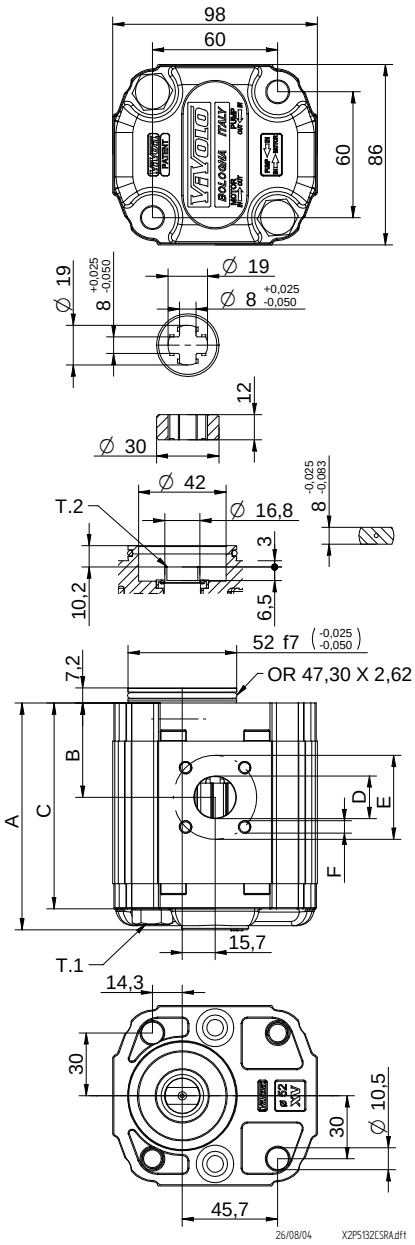
Technical data table

TYPE	Displacement	Max. Pressure		CODE	
	cm3/rev	P1 bar	P3 bar	Left rotation	Right rotation
XV-2P/04	4,20	260	300	X 2 P 41 31 C S R A	X 2 P 41 32 C S R A
XV-2P/06	6,00	260	300	X 2 P 43 31 C S R A	X 2 P 43 32 C S R A
XV-2P/09	8,40	260	300	X 2 P 45 31 C S R A	X 2 P 45 32 C S R A
XV-2P/11	10,80	260	300	X 2 P 47 31 C S R A	X 2 P 47 32 C S R A
XV-2P/14	14,40	250	290	X 2 P 49 31 C S R A	X 2 P 49 32 C S R A
XV-2P/17	16,80	230	270	X 2 P 51 31 C S R A	X 2 P 51 32 C S R A
XV-2P/19	19,20	210	250	X 2 P 53 31 C S R A	X 2 P 53 32 C S R A
XV-2P/22	22,80	200	240	X 2 P 55 31 C S R A	X 2 P 55 32 C S R A
XV-2P/26	26,20	170	210	X 2 P 57 31 C S R A	X 2 P 57 32 C S R A
XV-2P/30	30,00	160	200	X 2 P 59 31 C S S A	X 2 P 59 32 C S S A
XV-2P/34	34,20	150	190	X 2 P 61 31 C S S A	X 2 P 61 32 C S S A
XV-2P/40	39,60	140	180	X 2 P 63 31 C S S A	X 2 P 63 32 C S S 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	E	F	D	E	F
	kg	mm	mm	mm	IN			OUT		
XV-2P/04	2,100	87,2	38,6	77,2	ø20	40	M6x1	ø15	35	M6x1
XV-2P/06	2,200	90,2	38,6	80,2	ø20	40	M6x2	ø15	35	M6x1
XV-2P/09	2,300	94,2	40,6	84,2	ø20	40	M6x3	ø15	35	M6x1
XV-2P/11	2,400	98,2	45,0	88,2	ø20	40	M6x4	ø15	35	M6x1
XV-2P/14	2,600	104,2	45,0	94,2	ø20	40	M6x5	ø15	35	M6x1
XV-2P/17	2,700	108,2	45,0	98,2	ø20	40	M6x6	ø15	35	M6x1
XV-2P/19	2,800	112,2	45,0	102,2	ø20	40	M6x7	ø15	35	M6x1
XV-2P/22	2,950	118,2	52,5	108,2	ø20	40	M6x8	ø15	35	M6x1
XV-2P/26	3,050	122,2	52,5	112,2	ø20	40	M6x9	ø15	35	M6x1
XV-2P/30	3,300	130,2	60,7	120,2	ø20	40	M6x10	ø20	40	M6x1
XV-2P/34	3,500	137,2	60,7	127,2	ø20	40	M6x11	ø20	40	M6x1
XV-2P/40	3,700	146,2	60,7	136,2	ø20	40	M6x12	ø20	40	M6x1



T.1 = 54÷58.9 [Nm] - screw tightening torque M10
T.2 = 60.5 [Nm] - admissible shaft torque (N.B. When choosing a shaft, always check the admissible torque).

unidirectional pump - series XV

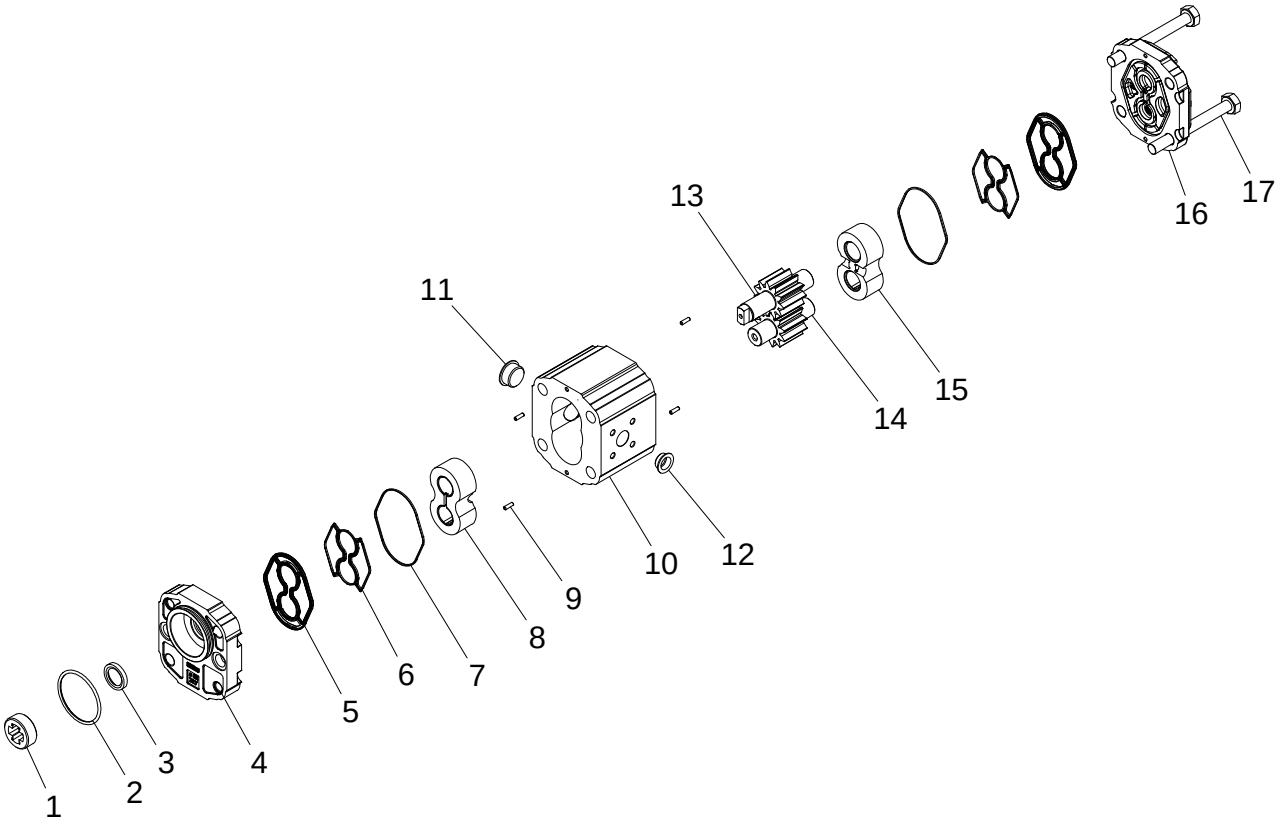
XV-2P

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

Reference	XP216

Example of ordering code:

X2P5132CSRA XV2P/17 - Ø52 BH /D - CF001 - Ø40 M6 # - Ø35 M6 # - .



Basic list

Pos.	Item description	Item	Size	Quantity
1	STANDARD PASSING CROSS COUPLING (MILLED 8-8) - ø52 FLANGE	**200.0021.A**	**0**	1
2	OR 47.30 x 2.62	**650.0070.A**	**0**	1
3	OIL SEAL 17 x 25 x 4 SC (BA)	**690.0035.A**	**0**	1
4	XV2 ø52 BH FLANGE	**200.0256.X**	**0**	1
5	INJECTION-MOLDED SEAL XV2 (NBR 70÷75 SH)	**200.0190.C**	**0**	2
6	XV2 BACK-UP ELEMENT FOR BALANCING	**200.0191.A**	**0**	2
7	EXTERNAL BACK-UP ELEMENT XV2	**200.0194.A**	**0**	2
8	XV2 BUSH H=20 (with channel and discharge port)	**200.0001.X**	**0**	1
9	PIN ø3x9,8	**570.0005.A**	**0**	4
10	STANDARD BOSCH FLANGED BODY - cc=17	**200.0005.A**	**H68**	1
11	PLASTIC PLUG ø21	**580.0001.A**	**D21**	1
12	PLASTIC PLUG ø15,5	**580.0001.A**	**D15,5**	1
13	CF001 - DRIVING GEAR MILLED SHANK	**200.0041.A**	**CC17**	1
14	COND2 - PERFORATED DRIVEN GEAR	**200.0010.A**	**CC17**	1
15	KV2P BUSH H=20	**200.0012.A**	**0**	1
16	STANDARD XV2 COVER	**200.0237.A**	**0**	1
17	WHITE GALVANISED SCREW TE M10x95 UNI 5737 8.8	**531.0010.A**	**L095**	2

Table of variations

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

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

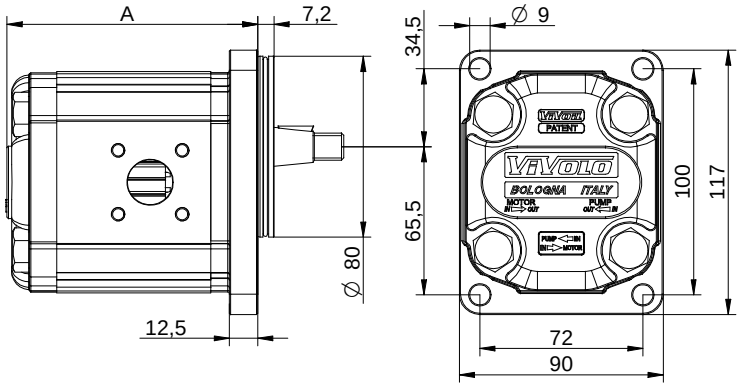
X	2	P						

Series		X
Group		2
Category		P
Displacement		
Flange		
Shaft		
Body	IN	
	OUT	
Cover		

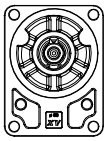
series XV

group 2

unidirectional pump



ø80 FLANGE

Left rotation	Code	Right rotation	Code
	41		42

Shaft

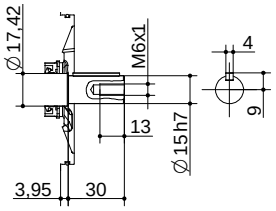
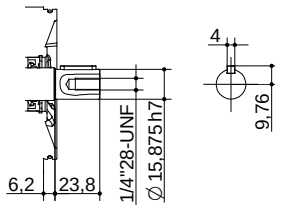
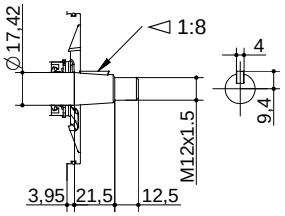
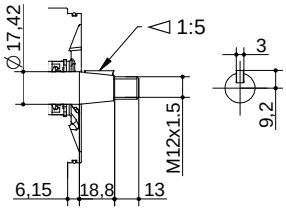
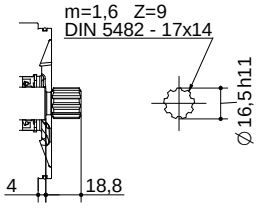
	Code		Code
CI001 - Parallel  T.2 = 44.1 [Nm]	A	CI002 - Parallel  T.2 = 67.5 [Nm]	B
CO001 - Tapered  T.2 = 233.2 [Nm]	E	CO002 - Tapered  T.2 = 233.2 [Nm]	F
SCF03 - Splined m=1,6 Z=9 DIN 5482 - 17x14  T.2 = 86.1 [Nm]	H		Z

Table of variations

Displacement

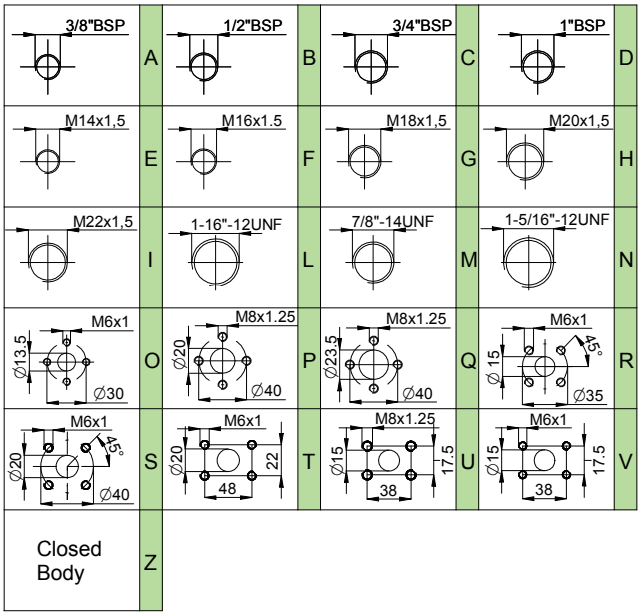
TYPE	CODE	A
		mm
XV-2P/04	**41**	89,7
XV-2P/06	**43**	92,7
XV-2P/09	**45**	96,7
XV-2P/11	**47**	100,7
XV-2P/14	**49**	106,7
XV-2P/17	**51**	110,7
XV-2P/19	**53**	114,7
XV-2P/22	**55**	120,7
XV-2P/26	**57**	124,7
XV-2P/30	**59**	132,7
XV-2P/34	**61**	139,7
XV-2P/40	**63**	148,7

Standard bodies

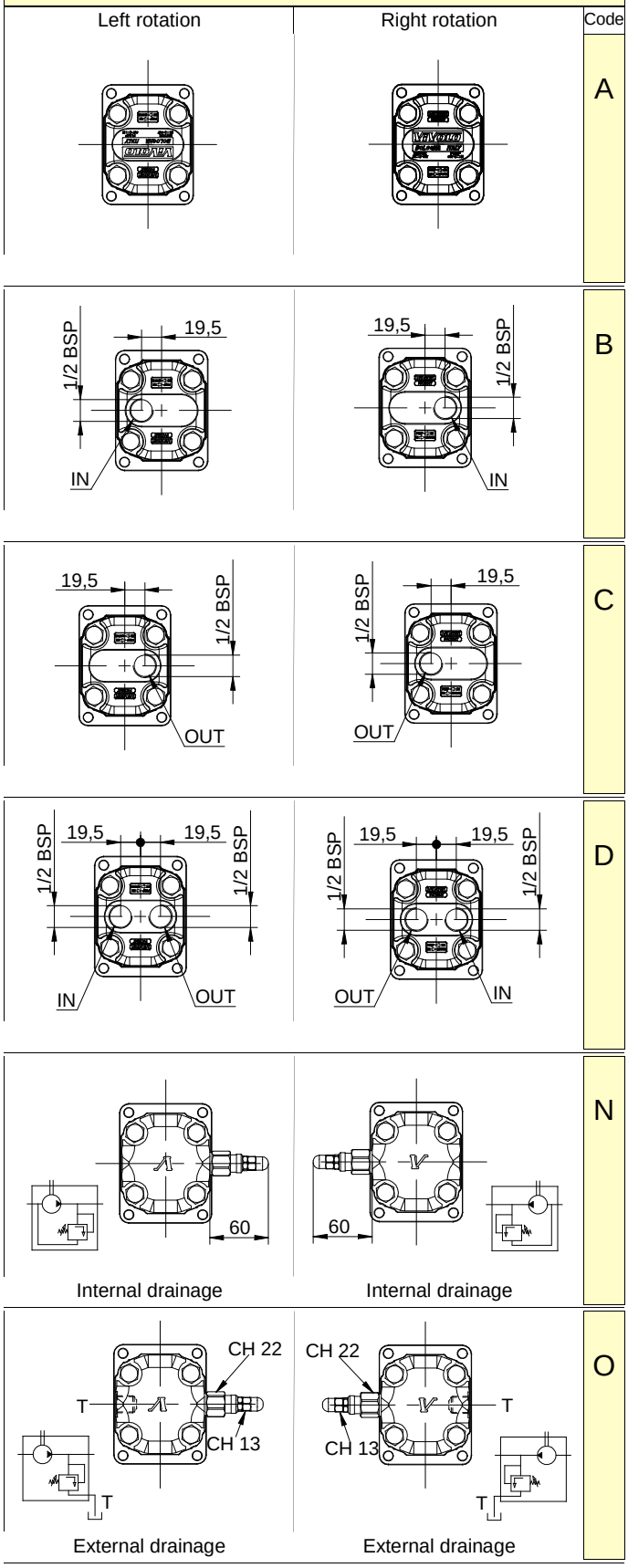
Displacement cm3/rev	Standard threads				
04	O - O	S - R	B - B	L - M	Z - Z
06	O - O	S - R	B - B	L - M	Z - Z
09	O - O	S - R	B - B	L - M	Z - Z
11	O - O	S - R	B - B	L - M	Z - Z
14	P - O	S - R	C - B	L - M	Z - Z
17	P - O	S - R	C - B	L - M	Z - Z
19	P - O	S - R	C - B	L - M	Z - Z
22	P - O	S - R	C - B	L - M	Z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

Table showing standard flange and thread combinations available in stock

Body (threads/flanges)



Cover



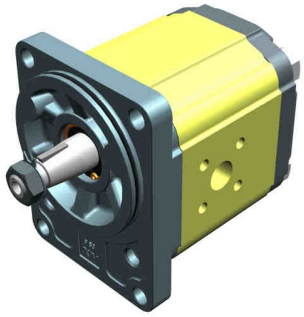
unidirectional pump - series XV

XV-2P

STANDARD GERMAN PUMP
ø80 FLANGE - TAPER SHAFT

X	2	P	51	42	F	S	R	A

Series		X	series XV
Group		2	group 2
Category		P	unidirectional pump
Displacement		51	17
Flange		42	Ø80 GERMAN STARDARDIZED right rotation (with OR)
Shaft		F	CO002 - Tapered 1:5 - ø17.4 - M12x1.5 - key thk.3
Body	IN	S	inlet - Ø40 a 45° Ø20 M6
	OUT	R	outlet - Ø35 a 45° Ø15 M6
Cover		A	standard



Reference **XP217**

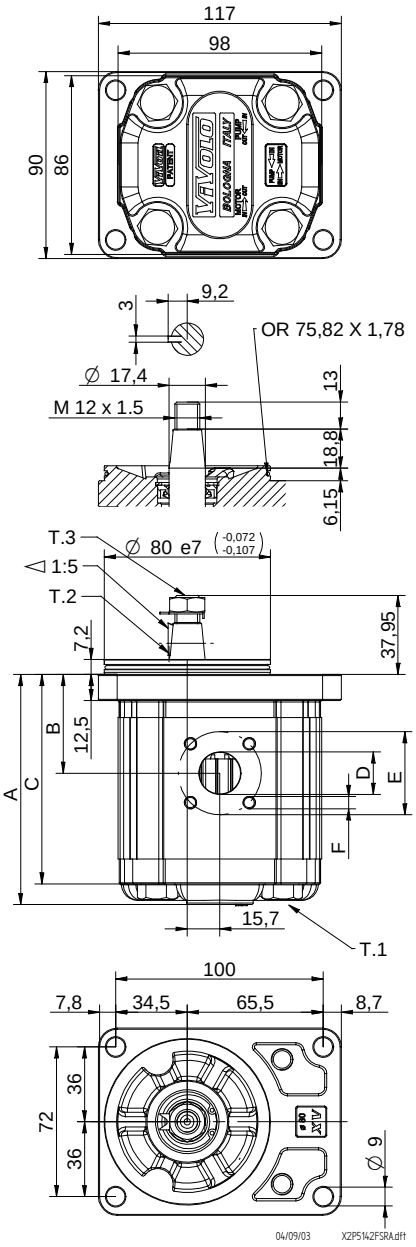
Technical data table

TYPE	Displacement	Max. Pressure		CODE	
	cm3/rev	P1 bar	P3 bar	Left rotation	Right rotation
XV-2P/04	4,20	260	300	X 2 P 41 41 F S R A	X 2 P 41 42 F S R A
XV-2P/06	6,00	260	300	X 2 P 43 41 F S R A	X 2 P 43 42 F S R A
XV-2P/09	8,40	260	300	X 2 P 45 41 F S R A	X 2 P 45 42 F S R A
XV-2P/11	10,80	260	300	X 2 P 47 41 F S R A	X 2 P 47 42 F S R A
XV-2P/14	14,40	250	290	X 2 P 49 41 F S R A	X 2 P 49 42 F S R A
XV-2P/17	16,80	230	270	X 2 P 51 41 F S R A	X 2 P 51 42 F S R A
XV-2P/19	19,20	210	250	X 2 P 53 41 F S R A	X 2 P 53 42 F S R A
XV-2P/22	22,80	200	240	X 2 P 55 41 F S R A	X 2 P 55 42 F S R A
XV-2P/26	26,20	170	210	X 2 P 57 41 F S R A	X 2 P 57 42 F S R A
XV-2P/30	30,00	160	200	X 2 P 59 41 F S S A	X 2 P 59 42 F S S A
XV-2P/34	34,20	150	190	X 2 P 61 41 F S S A	X 2 P 61 42 F S S A
XV-2P/40	39,60	140	180	X 2 P 63 41 F S S A	X 2 P 63 42 F S S 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	E	F	D	E	F
	kg	mm	mm	mm	IN			OUT		
XV-2P/04	2,330	89,7	41,1	79,7	ø20	40	M6x1	ø15	35	M6x1
XV-2P/06	2,430	92,7	41,1	82,7	ø20	40	M6x2	ø15	35	M6x1
XV-2P/09	2,530	96,7	43,1	86,7	ø20	40	M6x3	ø15	35	M6x1
XV-2P/11	2,630	100,7	47,5	90,7	ø20	40	M6x4	ø15	35	M6x1
XV-2P/14	2,730	106,7	47,5	96,7	ø20	40	M6x5	ø15	35	M6x1
XV-2P/17	2,830	110,7	47,5	100,7	ø20	40	M6x6	ø15	35	M6x1
XV-2P/19	2,930	114,7	47,5	104,7	ø20	40	M6x7	ø15	35	M6x1
XV-2P/22	3,180	120,7	55,0	110,7	ø20	40	M6x8	ø15	35	M6x1
XV-2P/26	3,280	124,7	55,0	114,7	ø20	40	M6x9	ø15	35	M6x1
XV-2P/30	3,530	132,7	63,2	122,7	ø20	40	M6x10	ø20	40	M6x1
XV-2P/34	3,730	139,7	63,2	129,7	ø20	40	M6x11	ø20	40	M6x1
XV-2P/40	3,930	148,7	63,2	138,7	ø20	40	M6x12	ø20	40	M6x1



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

unidirectional pump - series XV

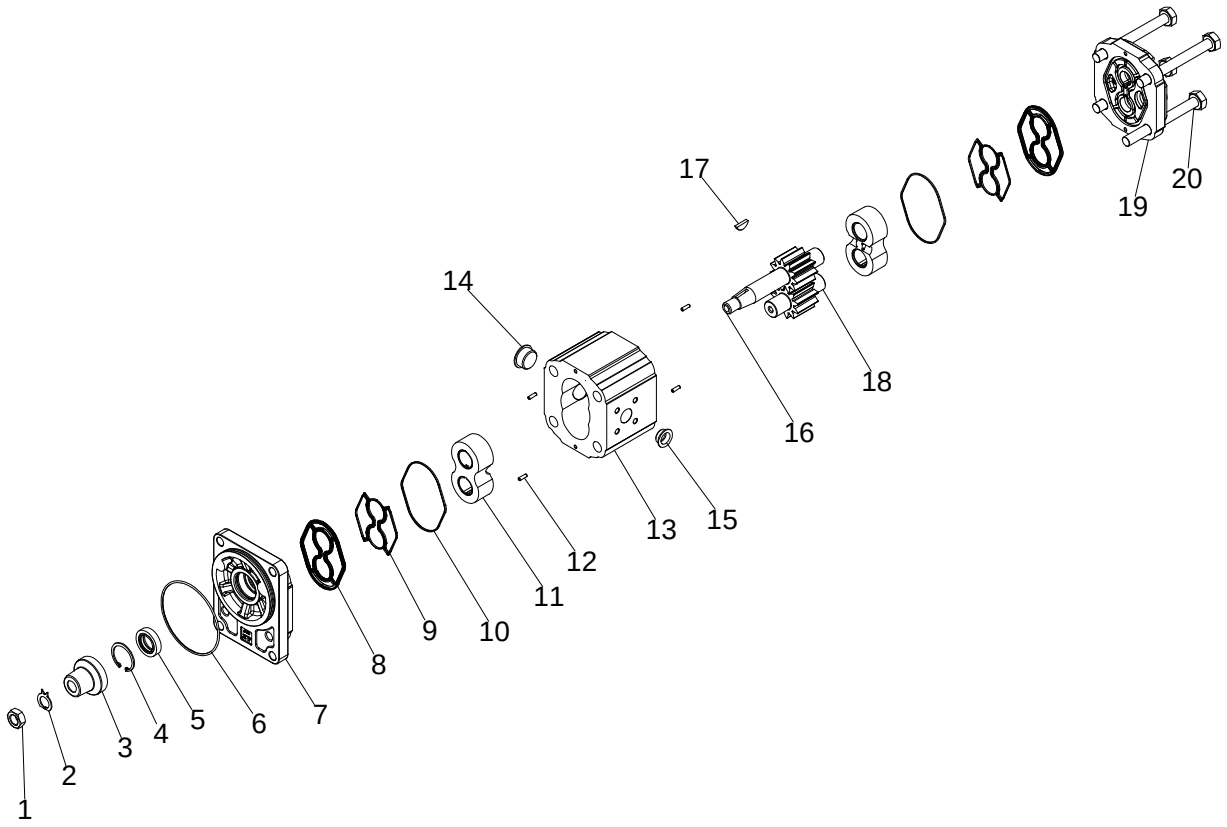
XV-2P

STANDARD GERMAN PUMP
ø80 FLANGE - TAPER SHAFT

Reference	XP217

Example of ordering code:

X2P5142FSRA XV2P/17 - Ø80 /D - CO002 - Ø40 M6 # - Ø35 M6 # - .



Basic list

Pos.	Item description	Item	Size	Quantity
1	NUT M12x1,5 H=7 CH.17	**200.0157.A**	**0**	1
2	TAB WASHER ø12,5xø19 - CO001-CO002 XV2	**200.0150.A**	**0**	1
3	KEY PROTECTION XV2	**590.0010.A**	**0**	1
4	ø29 INTERNAL SNAP RING DIN 472	**560.0020.A**	**0**	1
5	OIL SEAL 17.46 x 28.58 x 5.8/6.3 TCV (BAB SL)	**690.0030.A**	**0**	1
6	OR 75.92 x 1.78	**640.0130.A**	**0**	1
7	XV2 ø80 BOSCH FLANGE	**200.0239.A**	**0**	1
8	INJECTION-MOLDED SEAL XV2 (NBR 70÷75 SH)	**200.0190.C**	**0**	2
9	XV2 BACK-UP ELEMENT FOR BALANCING	**200.0191.A**	**0**	2
10	EXTERNAL BACK-UP ELEMENT XV2	**200.0194.A**	**0**	2
11	KV2P BUSH H=20	**200.0012.A**	**0**	2
12	PIN ø3x9,8	**570.0005.A**	**0**	4
13	STANDARD BOSCH FLANGED BODY - cc=17	**200.0005.A**	**H68**	1
14	PLASTIC PLUG ø21	**580.0001.A**	**D21**	1
15	PLASTIC PLUG ø15,5	**580.0001.A**	**D15,5**	1
16	CO002 BOSCH - TAPERED 1÷5 DRIVING GEAR	**200.0047.A**	**CC17**	1
17	WOODRUFF KEY ø16x3 H=6,5	**200.0142.A**	**0**	1
18	COND2 - PERFORATED DRIVEN GEAR	**200.0010.A**	**CC17**	1
19	STANDARD XV2 COVER	**200.0237.A**	**0**	1
20	WHITE GALVANISED SCREW TE M10x95 UNI 5737 8.8	**531.0010.A**	**L095**	4

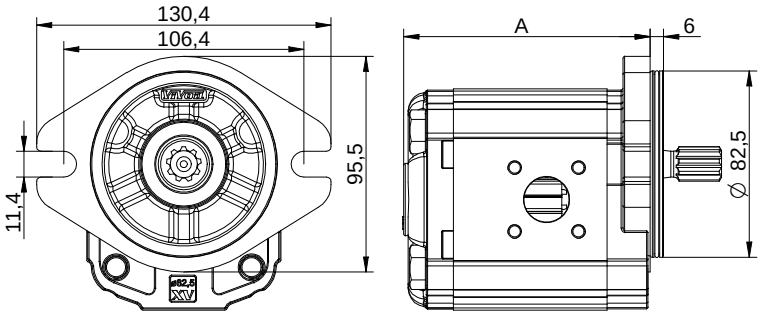
Table of variations

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

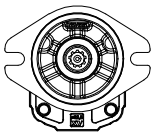
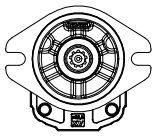
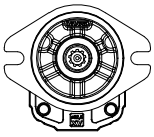
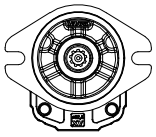
By filling in the missing data you can obtain the complete code of the product to be customised.

X	2	P						

Series		X	series XV
Group		2	group 2
Category		P	unidirectional pump
Displacement			
Flange			
Shaft			
Body	IN		
	OUT		
Cover			



ø82.5 FLANGE "SAE A"

Left rotation	Code	Right rotation	Code
	51		52
 Without OR	53	 Without OR	54

Shaft

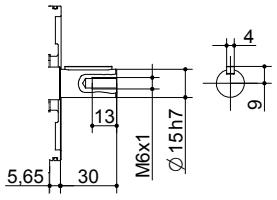
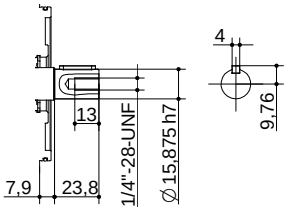
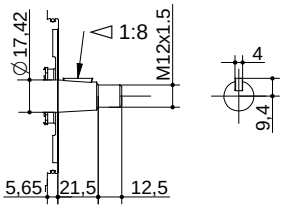
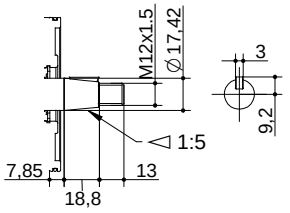
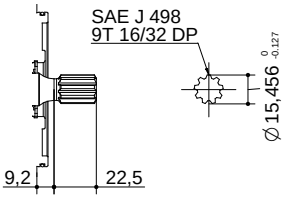
	Code		Code
CI001 - Parallel  T.2 = 44.1 [Nm]	A	CI002 - Parallel  T.2 = 67.5 [Nm]	B
CO001 - Tapered  T.2 = 233.2 [Nm]	E	CO002 - Tapered  T.2 = 233.2 [Nm]	F
SCF04 - Splined  T.2 = 67.1 [Nm]	I		Z

Table of variations

Displacement

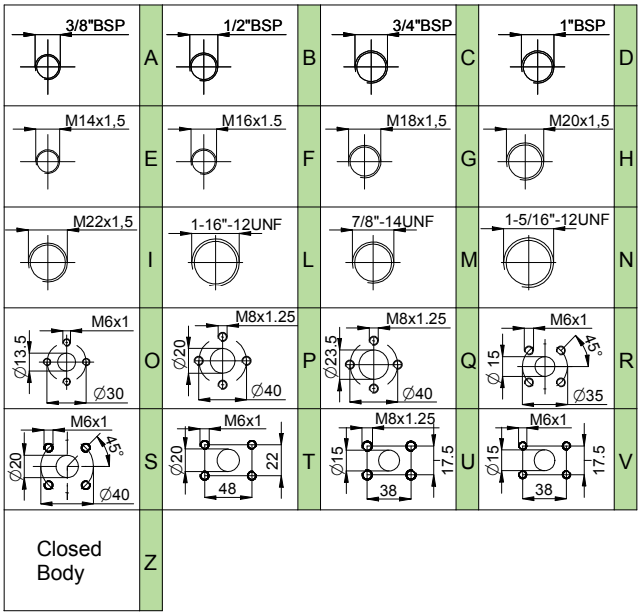
TYPE	CODE	A
		mm
XV-2P/04	**41**	88,0
XV-2P/06	**43**	91,0
XV-2P/09	**45**	95,0
XV-2P/11	**47**	99,0
XV-2P/14	**49**	105,0
XV-2P/17	**51**	109,0
XV-2P/19	**53**	113,0
XV-2P/22	**55**	119,0
XV-2P/26	**57**	123,0
XV-2P/30	**59**	131,0
XV-2P/34	**61**	138,0
XV-2P/40	**63**	147,0

Standard bodies

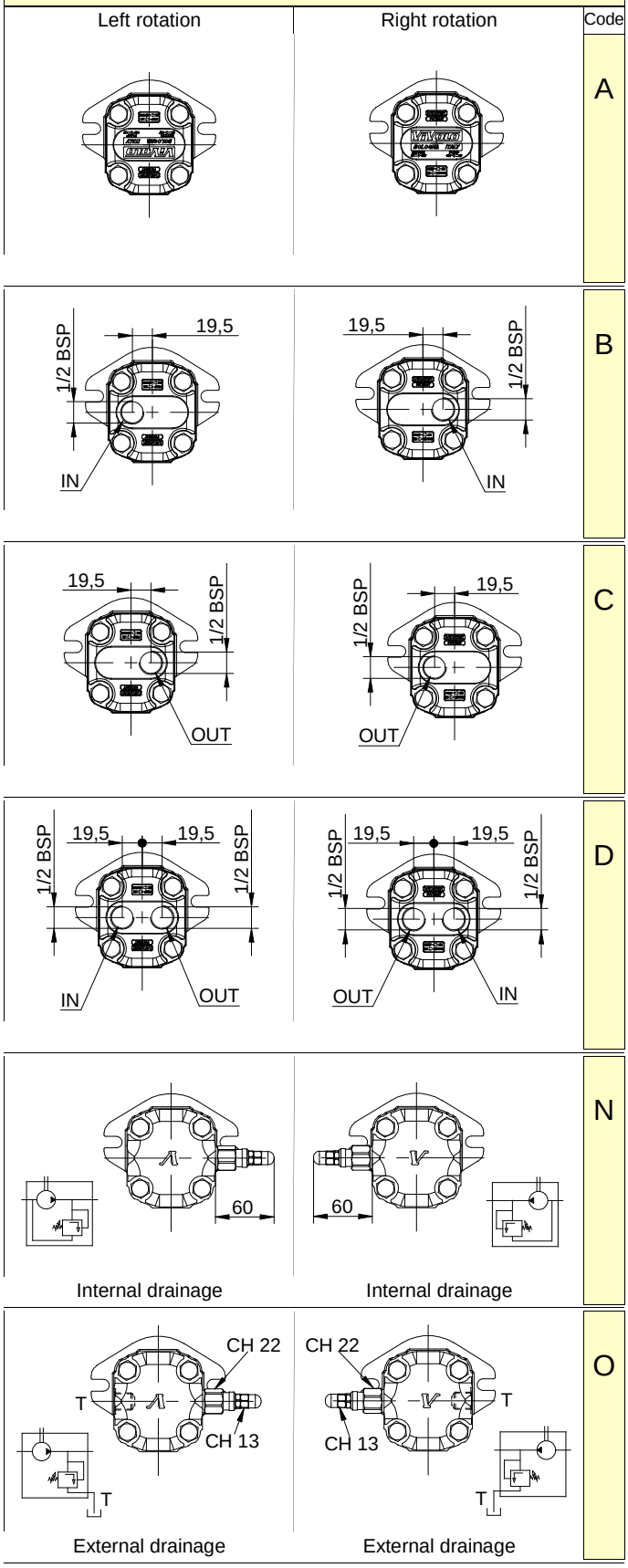
Displacement	Standard threads				
cm3/rev					
04	O - O	S - R	B - B	L - M	Z - Z
06	O - O	S - R	B - B	L - M	Z - Z
09	O - O	S - R	B - B	L - M	Z - Z
11	O - O	S - R	B - B	L - M	Z - Z
14	P - O	S - R	C - B	L - M	Z - Z
17	P - O	S - R	C - B	L - M	Z - Z
19	P - O	S - R	C - B	L - M	Z - Z
22	P - O	S - R	C - B	L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

Table showing standard flange and thread combinations available in stock

Body (threads/flanges)



Cover



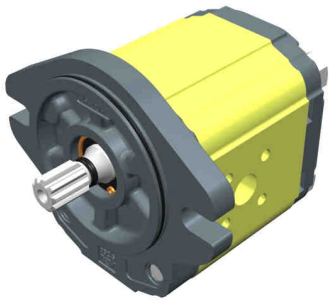
unidirectional pump - series XV

XV-2P

"SAE A" TYPE PUMP
ø82.5 FLANGE - SPLINED SHAFT

X	2	P	51	52	I	S	R	A

Series		X	series XV
Group		2	group 2
Category		P	unidirectional pump
Displacement		51	17
Flange		52	Ø82.5 SAE A right rotation (with OR)
Shaft		I	SCF04 - Splined ø15.456 z=9, H=22.5 - SAE J498 9T 16/32DP
Body	IN	S	inlet - Ø40 a 45° Ø20 M6
	OUT	R	outlet - Ø35 a 45° Ø15 M6
Cover		A	standard



Reference **XP219**

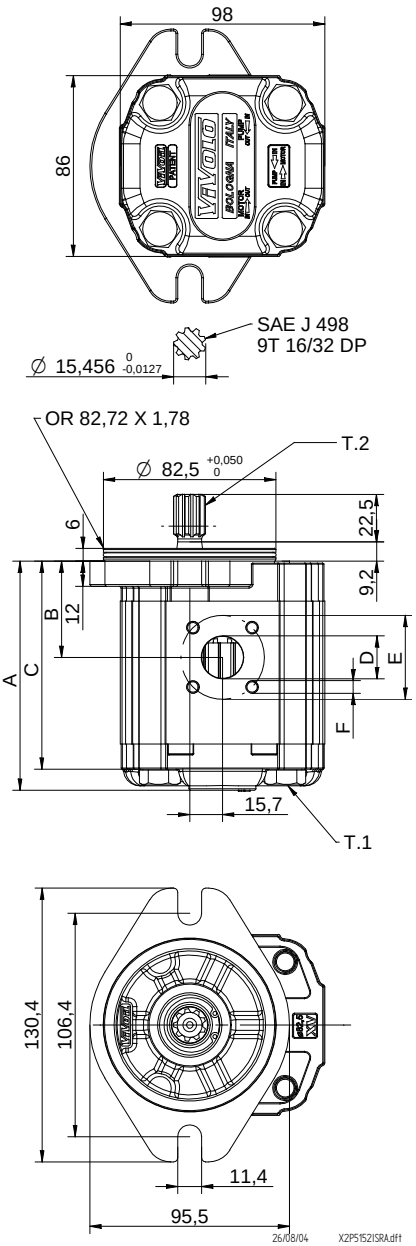
Technical data table

TYPE	Displacement	Max. Pressure	CODE	
	cm3/rev	P1 bar	P3 bar	Left rotation	Right rotation
XV-2P/04	4,20	260	300	X 2 P 41 51 I S R A	X 2 P 41 52 I S R A
XV-2P/06	6,00	260	300	X 2 P 43 51 I S R A	X 2 P 43 52 I S R A
XV-2P/09	8,40	260	300	X 2 P 45 51 I S R A	X 2 P 45 52 I S R A
XV-2P/11	10,80	260	300	X 2 P 47 51 I S R A	X 2 P 47 52 I S R A
XV-2P/14	14,40	250	290	X 2 P 49 51 I S R A	X 2 P 49 52 I S R A
XV-2P/17	16,80	230	270	X 2 P 51 51 I S R A	X 2 P 51 52 I S R A
XV-2P/19	19,20	210	250	X 2 P 53 51 I S R A	X 2 P 53 52 I S R A
XV-2P/22	22,80	200	240	X 2 P 55 51 I S R A	X 2 P 55 52 I S R A
XV-2P/26	26,20	170	210	X 2 P 57 51 I S R A	X 2 P 57 52 I S R A
XV-2P/30	30,00	160	200	X 2 P 59 51 I S S A	X 2 P 59 52 I S S A
XV-2P/34	34,20	150	190	X 2 P 61 51 I S S A	X 2 P 61 52 I S S A
XV-2P/40	39,60	140	180	X 2 P 63 51 I S S A	X 2 P 63 52 I S S 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	E	F	D	E	F
	kg	mm	mm	mm	IN			OUT		
XV-2P/04	2,280	88,0	39,4	78,0	ø20	40	M6x1	ø15	35	M6x1
XV-2P/06	2,380	91,0	39,4	81,0	ø20	40	M6x2	ø15	35	M6x1
XV-2P/09	2,480	95,0	41,4	85,0	ø20	40	M6x3	ø15	35	M6x1
XV-2P/11	2,580	99,0	45,8	89,0	ø20	40	M6x4	ø15	35	M6x1
XV-2P/14	2,780	105,0	45,8	95,0	ø20	40	M6x5	ø15	35	M6x1
XV-2P/17	2,880	109,0	45,8	99,0	ø20	40	M6x6	ø15	35	M6x1
XV-2P/19	2,980	113,0	45,8	103,0	ø20	40	M6x7	ø15	35	M6x1
XV-2P/22	3,130	119,0	53,3	109,0	ø20	40	M6x8	ø15	35	M6x1
XV-2P/26	3,230	123,0	53,3	113,0	ø20	40	M6x9	ø15	35	M6x1
XV-2P/30	3,480	131,0	61,5	121,0	ø20	40	M6x10	ø20	40	M6x1
XV-2P/34	3,680	138,0	61,5	128,0	ø20	40	M6x11	ø20	40	M6x1
XV-2P/40	3,880	147,0	61,5	137,0	ø20	40	M6x12	ø20	40	M6x1



T.1 = 54÷58.9 [Nm] - screw tightening torque M10
T.2 = 67.1 [Nm] - admissible shaft torque (N.B. When choosing a shaft, always check the admissible torque).

unidirectional pump - series XV

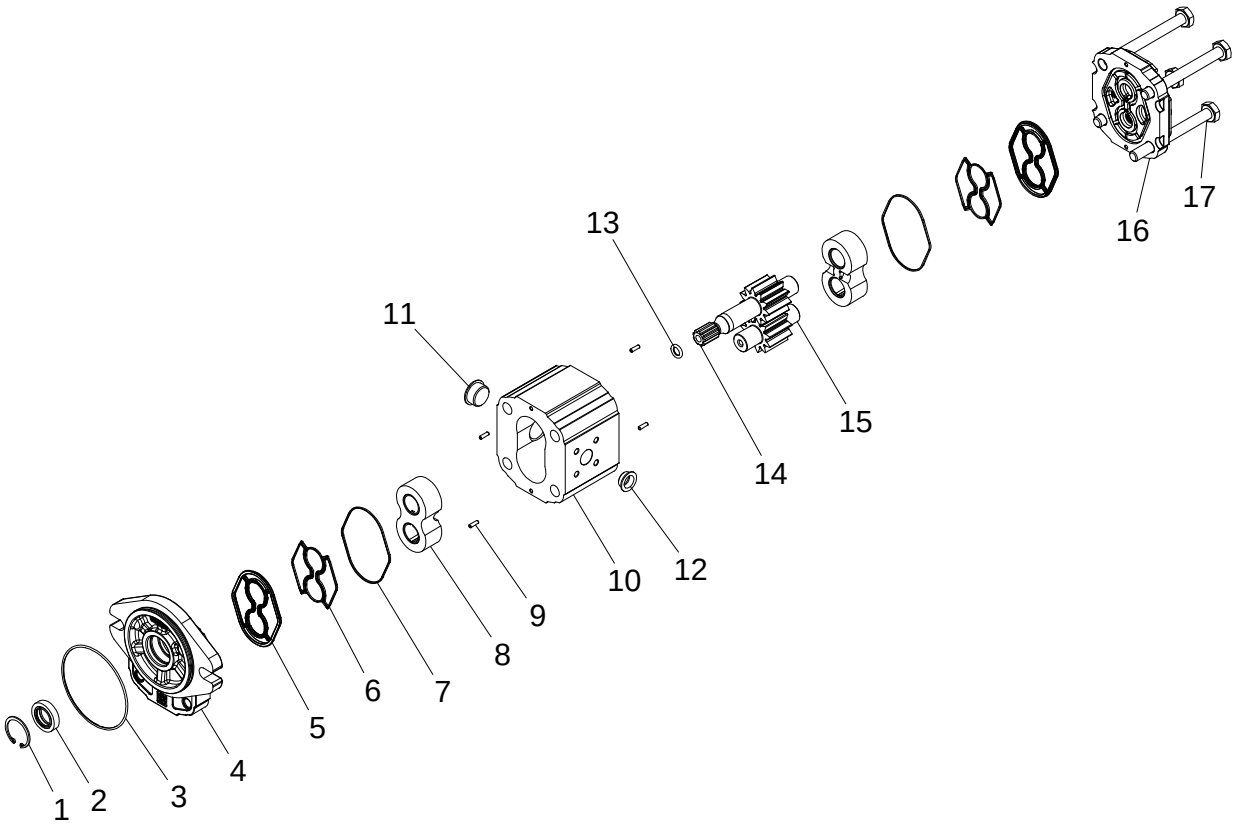
XV-2P

"SAE A" TYPE PUMP
ø82.5 FLANGE - SPLINED SHAFT

Reference	XP219

Example of ordering code:

X2P5152ISRA XV2P/17 - Ø82.5 SAE /D - SCF04 - Ø40 M6 # - Ø35 M6 # - .



Basic list

Pos.	Item description	Item	Size	Quantity
1	ø29 INTERNAL SNAP RING DIN 472	**560.0020.A**	**0**	1
2	OIL SEAL 17.46 x 28.58 x 5.8/6.3 TCV (BAB SL)	**690.0030.A**	**0**	1
3	OR 75.92 x 1.78	**640.0130.A**	**0**	1
4	XV2 ø82,5 SAE FLANGE	**200.0250.A**	**0**	1
5	INJECTION-MOLDED SEAL XV2 (NBR 70÷75 SH)	**200.0190.C**	**0**	2
6	XV2 BACK-UP ELEMENT FOR BALANCING	**200.0191.A**	**0**	2
7	EXTERNAL BACK-UP ELEMENT XV2	**200.0194.A**	**0**	2
8	KV2P BUSH H=20	**200.0012.A**	**0**	2
9	PIN ø3x9,8	**570.0005.A**	**0**	4
10	STANDARD BOSCH FLANGED BODY - cc=17	**200.0005.A**	**H68**	1
11	PLASTIC PLUG ø21	**580.0001.A**	**D21**	1
12	PLASTIC PLUG ø15,5	**580.0001.A**	**D15,5**	1
13	OR 10.78 x 2.62	**650.0085.A**	**0**	1
14	SCF04 SAE - SPLINED DRIVING GEAR	**200.0073.A**	**CC17**	1
15	COND2 - PERFORATED DRIVEN GEAR	**200.0010.A**	**CC17**	1
16	STANDARD XV2 COVER	**200.0237.A**	**0**	1
17	WHITE GALVANISED SCREW TE M10x95 UNI 5737 8.8	**531.0010.A**	**L095**	4

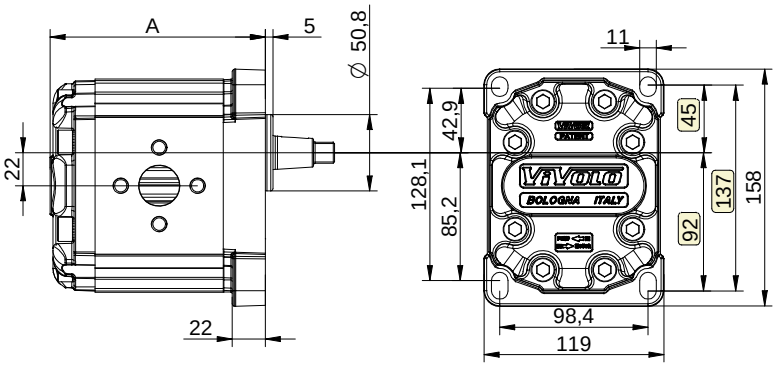
Table of variations

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

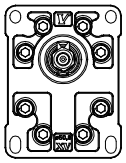
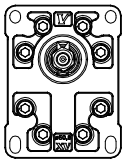
By filling in the missing data you can obtain the complete code of the product to be customised.

X	3	P						

Series		X	series XV
Group		3	group 3
Category		P	unidirectional pump
Displacement			
Flange			
Shaft			
Body	IN		
	OUT		
Cover			



ø50.8 FLANGE

Left rotation	Code	Right rotation	Code
	01		02

Shaft

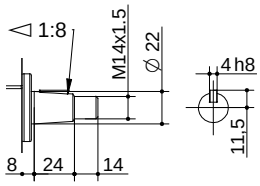
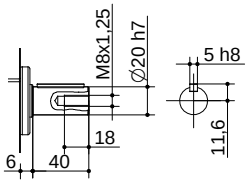
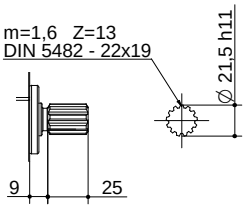
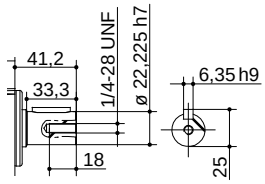
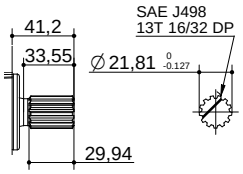
	Code		Code
CO001 - Tapered  T.2 = 482 [Nm]	A	CI001 - Parallel  T.2 = 181 [Nm]	B
SCF03 - Splined  T.2 = 223 [Nm]	C	CI004 - Parallel  T.2 = 180 [Nm]	H
SCF04 - Splined  T.2 = 264 [Nm]	I		Z

Table of variations

Displacement

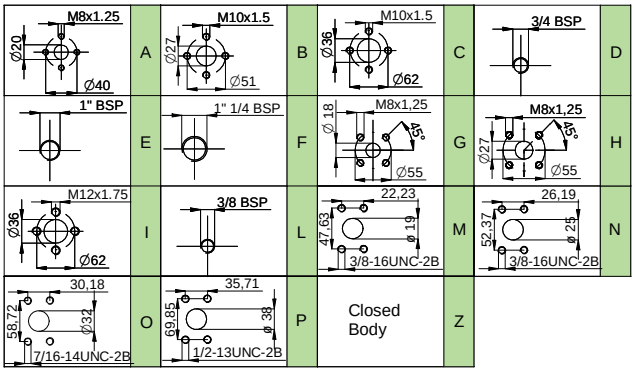
TYPE	CODE	A
		mm
XV-3P/15	**66**	124,0
XV-3P/18	**68**	126,0
XV-3P/21	**70**	129,0
XV-3P/27	**72**	133,0
XV-3P/32	**74**	138,0
XV-3P/38	**78**	143,0
XV-3P/43	**79**	147,0
XV-3P/47	**80**	150,0
XV-3P/51	**81**	153,0
XV-3P/54	**82**	156,0
XV-3P/61	**83**	161,0
XV-3P/64	**85**	164,0
XV-3P/70	**86**	169,0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

Standard bodies

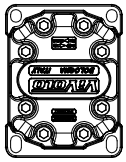
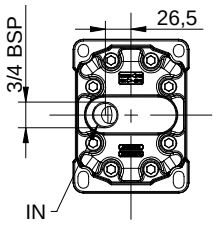
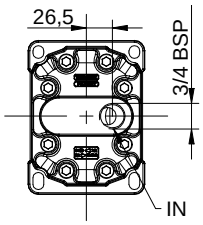
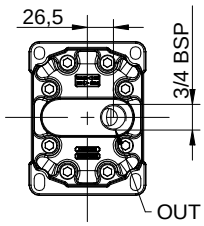
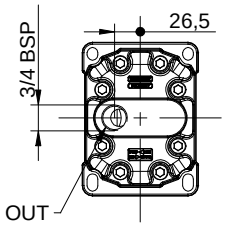
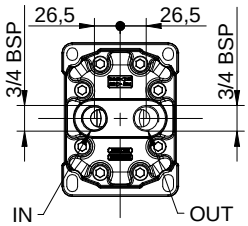
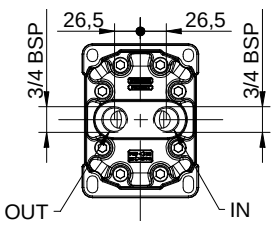
Displacement	Standard threads		
cm3/rev			
14	A - A	D - D	H – H
17	A - A	D - D	H – H
21	A - A	D - D	H – H
26	A - A	E - E	H – H
32	B - B	E - E	H – H
38	B - B	E - E	H – H
43	B - B	E - E	H – H
47	B - B	E - E	H – H
51	B - B	E - E	H – H
54	B - B	E - E	H – H
61	C - C	F - F	
64	C - C	F - F	
70	C - C	F - F	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

Table showing standard flange and thread combinations available in stock

Body (threads/flanges)



Cover

Left rotation	Right rotation	Code
		A
		B
		C
		D

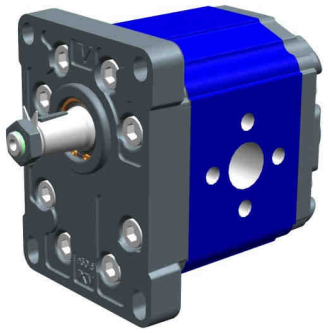
unidirectional pump - series XV

XV-3P

STANDARD EUROPEAN PUMP
ø50.8 FLANGE - TAPER SHAFT

X	3	P	78	02	A	B	B	A

Series		X	series XV
Group		3	group 3
Category		P	unidirectional pump
Displacement		78	38
Flange		02	Ø50.8 right rotation
Shaft		A	CO001 - Tapered 1:8 - ø22 - key thk.4
Body	IN	B	inlet - Ø51 Ø27 M10
	OUT	B	outlet - Ø51 Ø27 M10
Cover		A	standard



Reference **XP301**

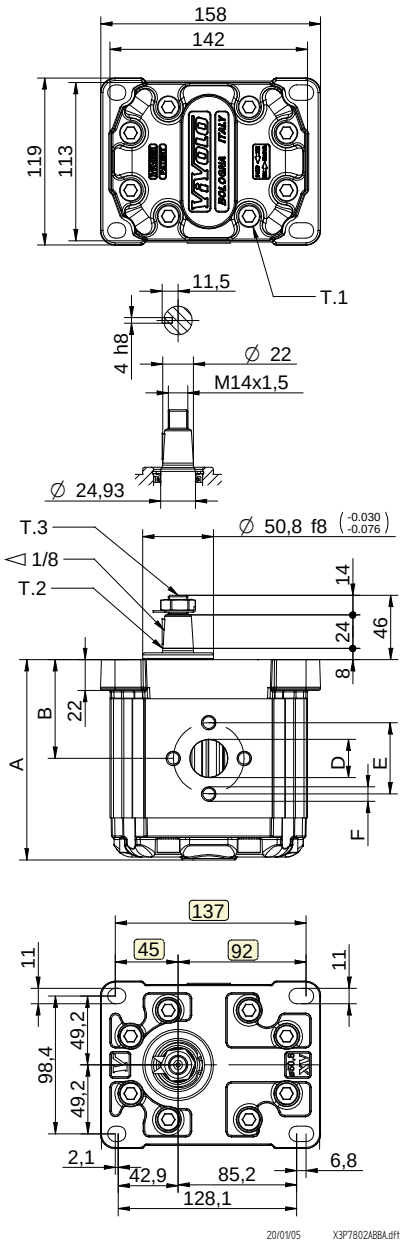
Technical data table

TYPE	Displacement	Max. Pressure		CODE	
	cm3/rev	P1 bar	P3 bar	Left rotation	Right rotation
XV-3P/15	14,89	300	320	X 3 P 66 01 A A A A	X 3 P 66 02 A A A A
XV-3P/18	17,37	300	320	X 3 P 68 01 A A A A	X 3 P 68 02 A A A A
XV-3P/21	21,10	280	300	X 3 P 70 01 A A A A	X 3 P 70 02 A A A A
XV-3P/27	26,97	250	270	X 3 P 72 01 A A A A	X 3 P 72 02 A A A A
XV-3P/32	32,27	250	270	X 3 P 74 01 A B B A	X 3 P 74 02 A B B A
XV-3P/38	38,47	250	270	X 3 P 78 01 A B B A	X 3 P 78 02 A B B A
XV-3P/43	43,44	250	270	X 3 P 79 01 A B B A	X 3 P 79 02 A B B A
XV-3P/47	47,16	230	250	X 3 P 80 01 A B B A	X 3 P 80 02 A B B A
XV-3P/51	50,88	230	250	X 3 P 81 01 A B B A	X 3 P 81 02 A B B A
XV-3P/54	54,60	230	250	X 3 P 82 01 A B B A	X 3 P 82 02 A B B A
XV-3P/61	60,81	230	250	X 3 P 83 01 A C C A	X 3 P 83 02 A C C A
XV-3P/64	64,53	210	230	X 3 P 85 01 A C C A	X 3 P 85 02 A C C A
XV-3P/70	70,74	200	220	X 3 P 86 01 A C C A	X 3 P 86 02 A C C A
XV-3P/74	74,46	180	200	X 3 P 87 01 A C C A	X 3 P 87 02 A C C A
XV-3P/90	86,87	150	170	X 3 P 89 01 A C C A	X 3 P 89 02 A C C 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

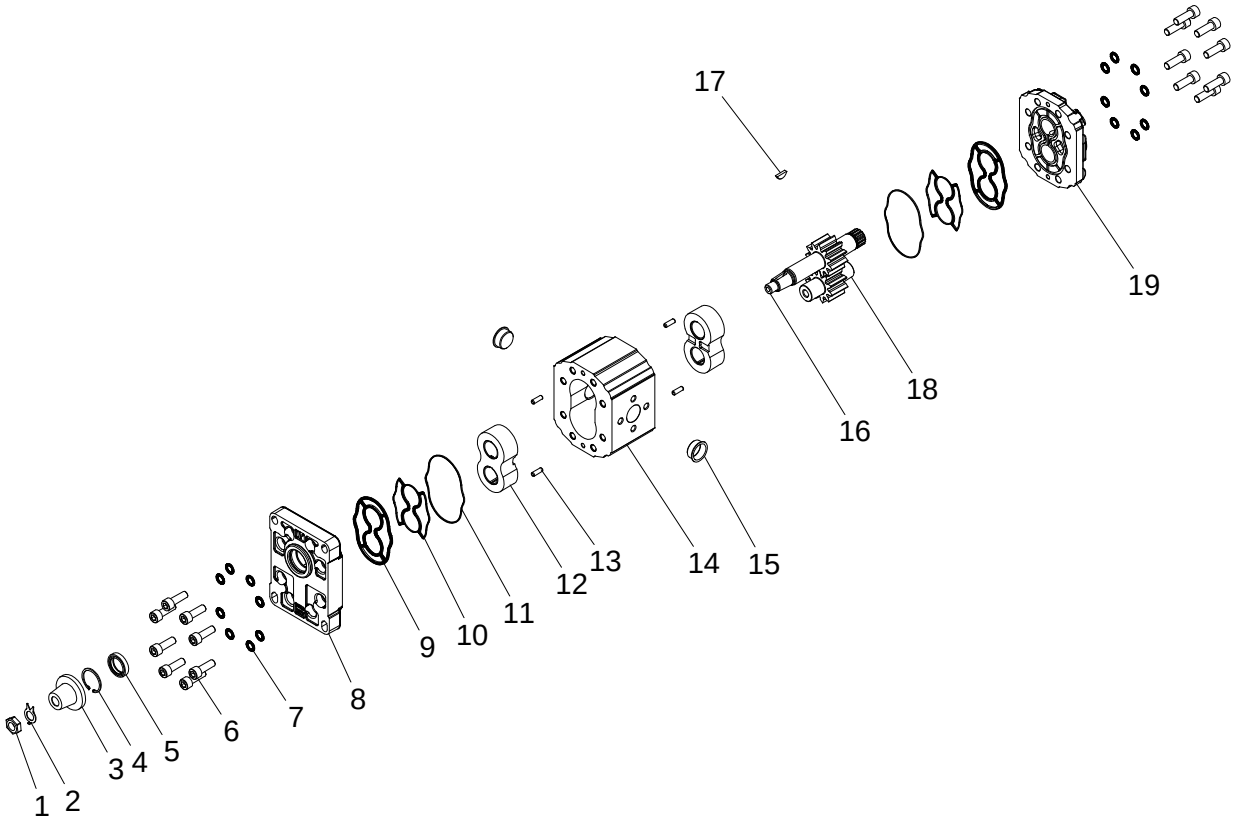
TYPE	Weight	A	B	D	E	F	D	E	F
	kg	mm	mm	IN			OUT		
XV-3P/15	7,010	124,0	61,0	ø20	40	M8	ø20	40	M8
XV-3P/18	7,070	126,0	62,0	ø20	40	M8	ø20	40	M8
XV-3P/21	7,150	129,0	63,5	ø20	40	M8	ø20	40	M8
XV-3P/27	7,250	133,0	65,5	ø20	40	M8	ø20	40	M8
XV-3P/32	7,390	138,0	68,0	ø27	51	M10	ø27	51	M10
XV-3P/38	7,520	143,0	70,5	ø27	51	M10	ø27	51	M10
XV-3P/43	7,630	147,0	72,5	ø27	51	M10	ø27	51	M10
XV-3P/47	7,710	150,0	74,0	ø27	51	M10	ø27	51	M10
XV-3P/51	7,790	153,0	75,5	ø27	51	M10	ø27	51	M10
XV-3P/54	7,870	156,0	77,0	ø27	51	M10	ø27	51	M10
XV-3P/61	8,010	161,0	79,5	ø36	62	M10	ø36	62	M10
XV-3P/64	8,090	164,0	81,0	ø36	62	M10	ø36	62	M10
XV-3P/70	8,220	169,0	83,5	ø36	62	M10	ø36	62	M10
XV-3P/74	8,300	172,0	85,0	ø36	62	M10	ø36	62	M10
XV-3P/90	8,570	182,0	90,0	ø36	62	M10	ø36	62	M10



T.1 = 60÷65 [Nm] - screw tightening torque M10
T.3 = 75 [Nm] - torque wrench setting 22
T.2 = 482 [Nm] - admissible shaft torque (N.B. When choosing a shaft, always check the admissible torque).

Example of ordering code:

X3P7802ABBA XV3P/38 - Ø50,8 /D - CO001 - Ø51 M10 - Ø51 M10 - .



Basic list				
Pos.	**Item description**	**Item**	**Size**	**Quantity**
1	WHITE GALVANISED NUT M14x1.5 H=8 UNI 5589	**540.0070.A**	**0**	1
2	TAB WASHER XV3 CO001	**300.0023.A**	**0**	1
3	KEY PROTECTION XV3	**590.0030.A**	**0**	1
4	ø35 INTERNAL SNAP RING DIN 472	**560.0025.A**	**0**	1
5	OIL SEAL 25 x 35 x 6 TCV (BAB SL)	**690.0090.A**	**0**	1
6	WHITE GALVANISED SCREW TCCE M10x30 UNI 5931 8.8	**521.0010.A**	**L030**	16
7	SCHNORR WASHER ø10xø15.8 H=1 BLUED	**550.0015.A**	**0**	16
8	XV3 ø50.8 FLANGE	**300.0032.A**	**0**	1
9	INJECTION-MOLDED SEAL XV3 (NBR 740/70)	**300.0005.C**	**0**	2
10	XV3 BACK-UP ELEMENT FOR BALANCING	**300.0003.A**	**0**	2
11	EXTERNAL BACK-UP ELEMENT XV3	**300.0004.A**	**0**	2
12	XV3 BUSH H=27	**300.0009.A**	**0**	2
13	PIN ø6x18	**570.0044.A**	**0**	4
14	STANDARD FLANGED BODY - cc=38	**300.0044.A**	**H85**	1
15	PLASTIC PLUG ø28	**580.0001.A**	**D28**	2
16	COP01 - PRIMARY GEAR ø22 BEVEL 1÷8	**300.0016.A**	**CC38**	1
17	WOODRUFF KEY ø19x4 H=7,5 - XV3	**300.0013.A**	**0**	1
18	COND2 - PERFORATED DRIVEN GEAR	**300.0010.A**	**CC38**	1
19	STANDARD XV3 COVER	**300.0034.A**	**0**	1

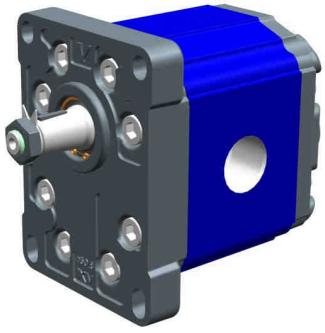
unidirectional pump - series XV

XV-3P

STANDARD EUROPEAN PUMP
ø50.8 FLANGE - TAPER SHAFT

X	3	P	78	02	A	E	E	A

Series		X	series XV
Group		3	group 3
Category		P	unidirectional pump
Displacement		78	38
Flange		02	Ø50.8 right rotation
Shaft		A	CO001 - Tapered 1:8 - ø22 - key thk.4
Body	IN	E	inlet - 1" BSP
	OUT	E	outlet - 1" BSP
Cover		A	standard



Reference **XP302**

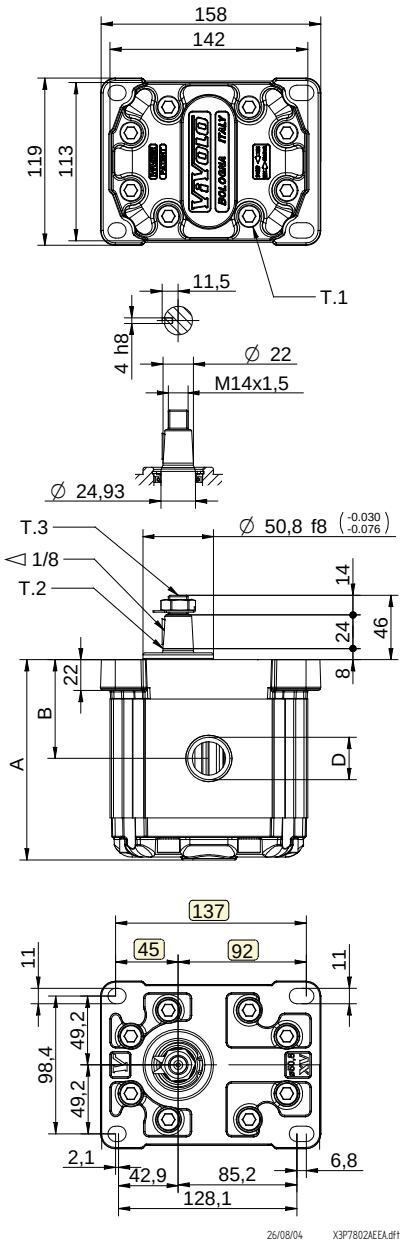
Technical data table

TYPE	Displacement	Max. Pressure		CODE	
	cm3/rev	P1 bar	P3 bar	Left rotation	Right rotation
XV-3P/15	14,89	300	320	X 3 P 66 01 A D D A	X 3 P 66 02 A D D A
XV-3P/18	17,37	300	320	X 3 P 68 01 A D D A	X 3 P 68 02 A D D A
XV-3P/21	21,10	280	300	X 3 P 70 01 A D D A	X 3 P 70 02 A D D A
XV-3P/27	26,97	250	270	X 3 P 72 01 A E E A	X 3 P 72 02 A E E A
XV-3P/32	32,27	250	270	X 3 P 74 01 A E E A	X 3 P 74 02 A E E A
XV-3P/38	38,47	250	270	X 3 P 78 01 A E E A	X 3 P 78 02 A E E A
XV-3P/43	43,44	250	270	X 3 P 79 01 A E E A	X 3 P 79 02 A E E A
XV-3P/47	47,16	230	250	X 3 P 80 01 A E E A	X 3 P 80 02 A E E A
XV-3P/51	50,88	230	250	X 3 P 81 01 A E E A	X 3 P 81 02 A E E A
XV-3P/54	54,60	230	250	X 3 P 82 01 A E E A	X 3 P 82 02 A E E A
XV-3P/61	60,81	230	250	X 3 P 83 01 A F F A	X 3 P 83 02 A F F A
XV-3P/64	64,53	210	230	X 3 P 85 01 A F F A	X 3 P 85 02 A F F A
XV-3P/70	70,74	200	220	X 3 P 86 01 A F F A	X 3 P 86 02 A F F A
XV-3P/74	74,46	180	200	X 3 P 87 01 A F F A	X 3 P 87 02 A F F A
XV-3P/90	86,87	150	170	X 3 P 89 01 A F F A	X 3 P 89 02 A 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

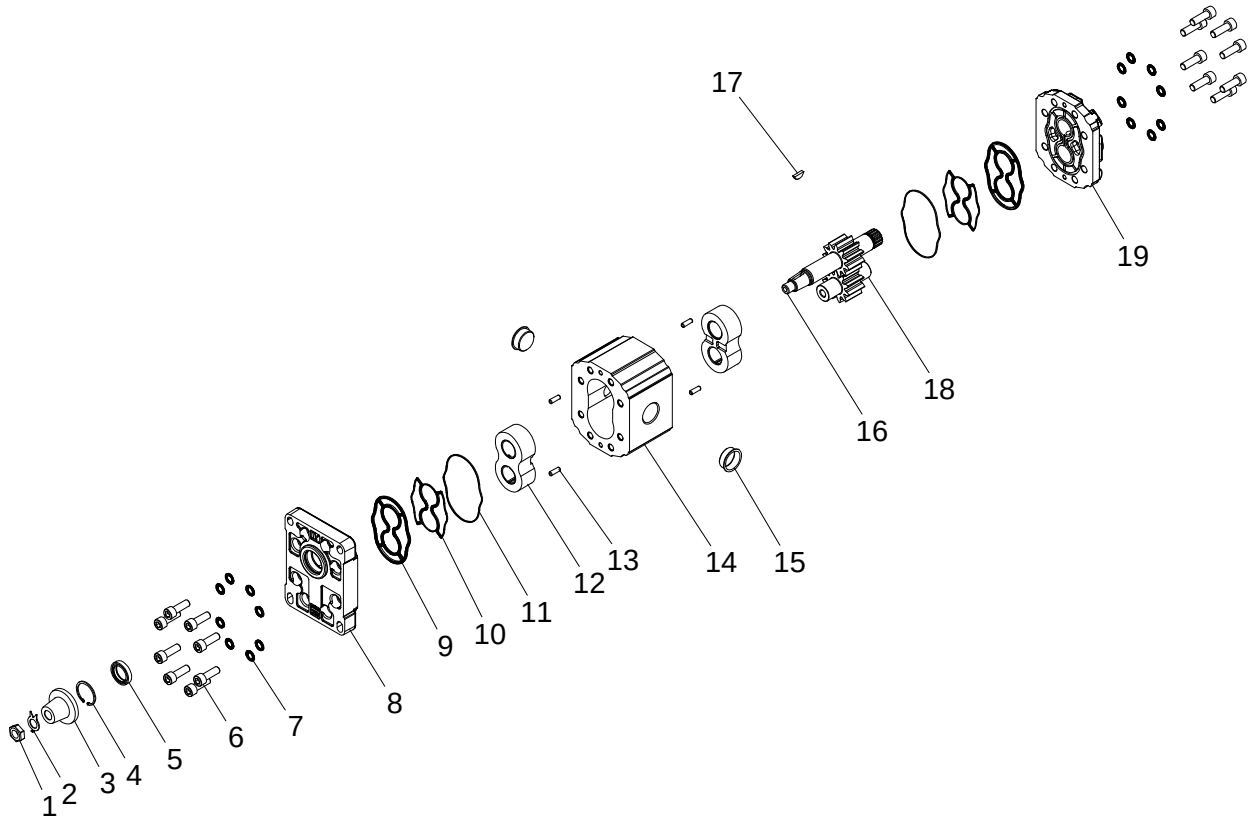


T.1 = 60÷65 [Nm] - screw tightening torque M10
T.3 = 75 [Nm] - torque wrench setting 22
T.2 = 482 [Nm] - admissible shaft torque (N.B. When choosing a shaft, always check the admissible torque).

Reference	XP302

Example of ordering code:

X3P7802AEEA XV3P/38 - Ø50,8 /D - CO001 - 1" BSP - 1" BSP - .



Basic list				
Pos.	**Item description**	**Item**	**Size**	**Quantity**
1	WHITE GALVANISED NUT M14x1.5 H=8 UNI 5589	**540.0070.A**	**0**	1
2	TAB WASHER XV3 CO001	**300.0023.A**	**0**	1
3	KEY PROTECTION XV3	**590.0030.A**	**0**	1
4	ø35 INTERNAL SNAP RING DIN 472	**560.0025.A**	**0**	1
5	OIL SEAL 25 x 35 x 6 TCV (BAB SL)	**690.0090.A**	**0**	1
6	WHITE GALVANISED SCREW TCCE M10x30 UNI 5931 8.8	**521.0010.A**	**L030**	16
7	SCHNORR WASHER ø10xø15.8 H=1 BLUED	**550.0015.A**	**0**	16
8	XV3 ø50.8 FLANGE	**300.0032.A**	**0**	1
9	INJECTION-MOLDED SEAL XV3 (NBR 740/70)	**300.0005.C**	**0**	2
10	XV3 BACK-UP ELEMENT FOR BALANCING	**300.0003.A**	**0**	2
11	EXTERNAL BACK-UP ELEMENT XV3	**300.0004.A**	**0**	2
12	XV3 BUSH H=27	**300.0009.A**	**0**	2
13	PIN ø6x18	**570.0044.A**	**0**	4
14	BODY W/THREAD BSP STANDARD - cc=38	**300.0026.A**	**H85**	1
15	PLASTIC PLUG ø32	**580.0001.A**	**D32**	2
16	COP01 - PRIMARY GEAR ø22 BEVEL 1÷8	**300.0016.A**	**CC38**	1
17	WOODRUFF KEY ø19x4 H=7,5 - XV3	**300.0013.A**	**0**	1
18	COND2 - PERFORATED DRIVEN GEAR	**300.0010.A**	**CC38**	1
19	STANDARD XV3 COVER	**300.0034.A**	**0**	1

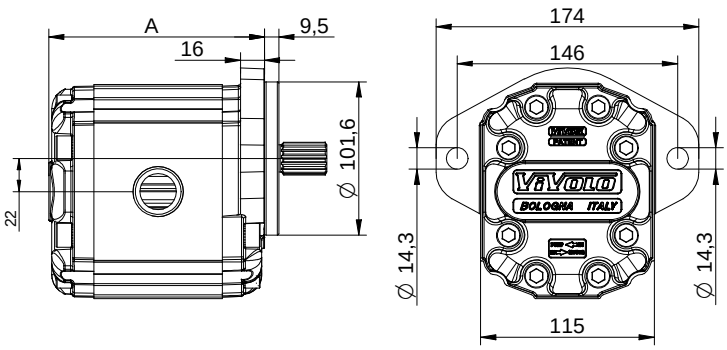
Table of variations

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

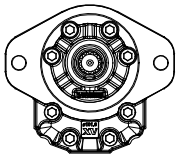
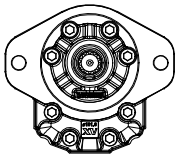
By filling in the missing data you can obtain the complete code of the product to be customised.

X	3	P						

Series		X	series XV
Group		3	group 3
Category		P	unidirectional pump
Displacement			
Flange			
Shaft			
Body	IN		
	OUT		
Cover			



ø101.6 FLANGE ""SAE B""

Left rotation	Code	Right rotation	Code
	31		32

Shaft

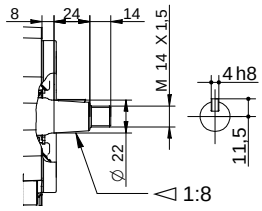
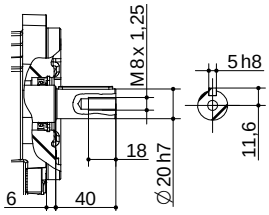
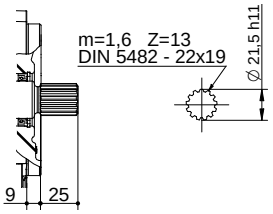
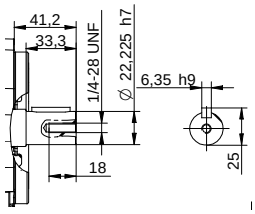
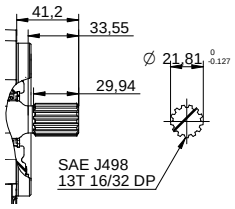
	Code		Code
CO001 - Tapered  T.2 = 482 [Nm]	A	CI001 - Parallel  T.2 = 181 [Nm]	B
SCF03 - Splined  T.2 = 223 [Nm]	C	CI004 - Parallel  T.2 = 180 [Nm]	H
SCF04 - Splined  T.2 = 264 [Nm]	I		Z

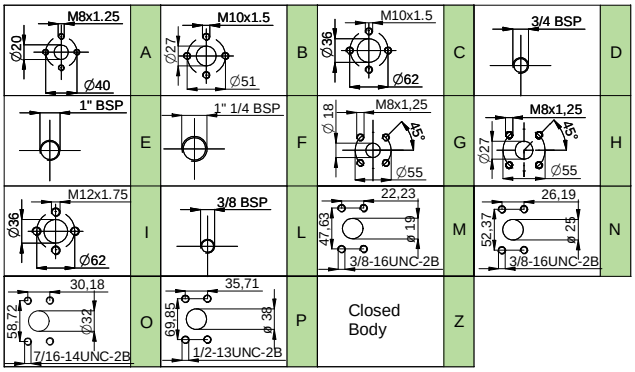
Table of variations

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

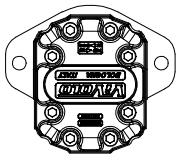
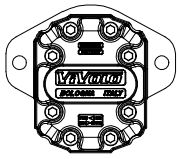
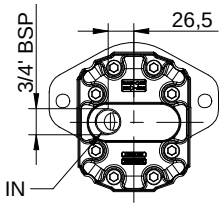
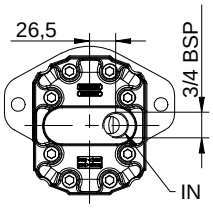
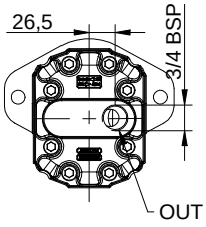
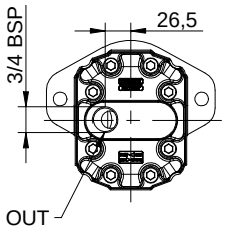
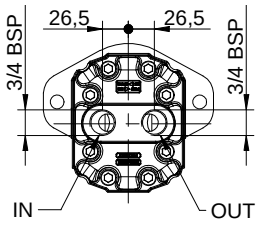
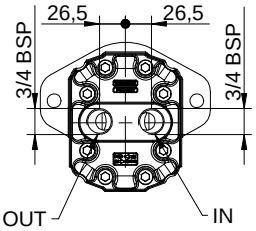
Standard bodies			
Displacement cm3/rev	Standard threads		
14	A - A	D - D	H – H
17	A - A	D - D	H – H
21	A - A	D - D	H – H
26	A - A	E - E	H – H
32	B - B	E - E	H – H
38	B - B	E - E	H – H
43	B - B	E - E	H – H
47	B - B	E - E	H – H
51	B - B	E - E	H – H
54	B - B	E - E	H – H
61	C - C	F - F	
64	C - C	F - F	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

Table showing standard flange and thread combinations available in stock

Body (threads/flanges)



Cover

Left rotation	Right rotation	Code
		A
		B
		C
		D

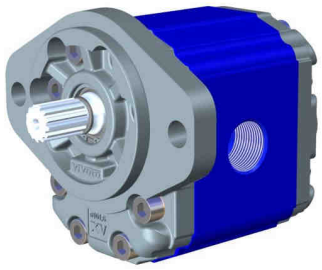
unidirectional pump - series XV

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	E	inlet - 1" BSP
	OUT	E	outlet - 1" BSP
Cover		A	standard



Reference **XP331**

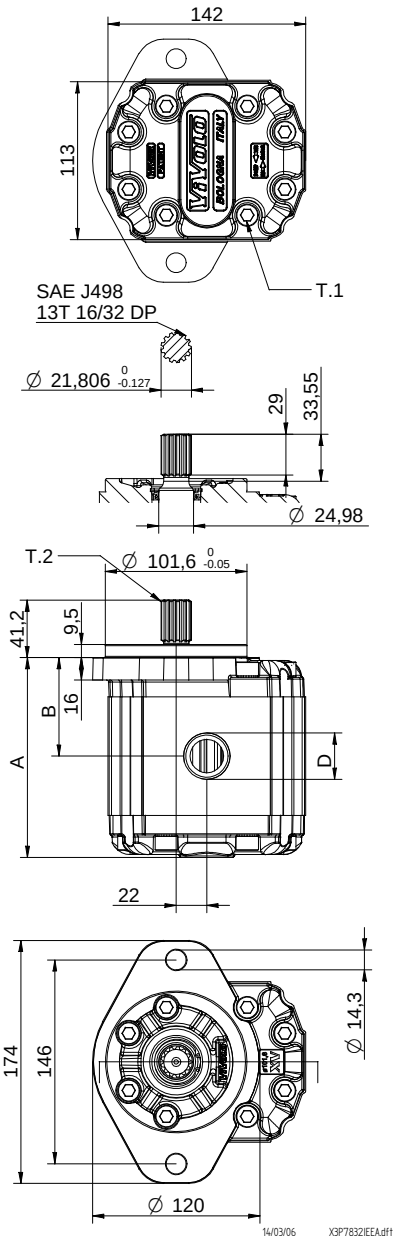
Technical data table

TYPE	Displacement	Max. Pressure	CODE	
	cm3/rev	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).

unidirectional pump - series XV

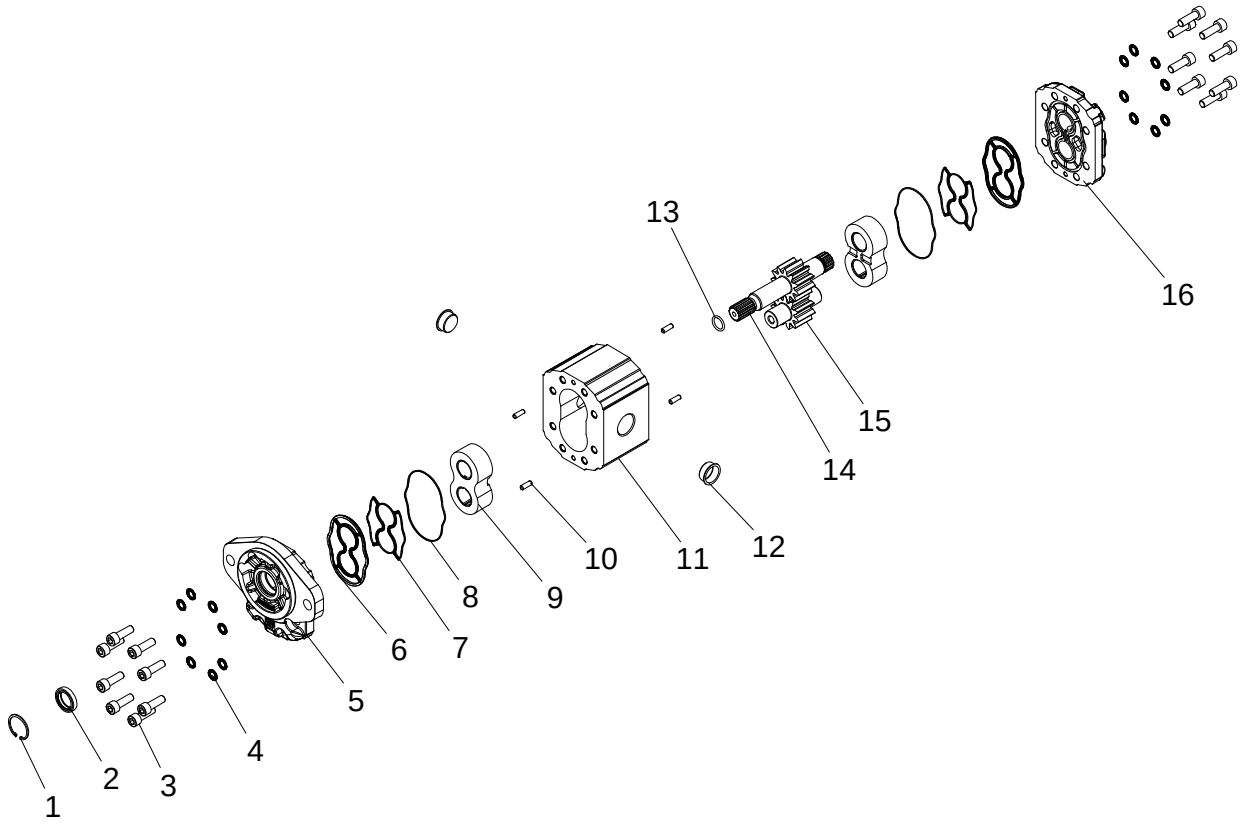
XV-3P

SAE B TYPE PUMP
ø101.6 FLANGE - SPLINED SHAFT

Reference	XP331

Example of ordering code:

X3P7832IEEA XV3P/38 - Ø101,6 SAE B /D - SCF04 - 1" BSP - 1" BSP - .



Basic list

Pos.	Item description	Item	Size	Quantity
1	ø35 INTERNAL SNAP RING DIN 472	**560.0025.A**	**0**	1
2	OIL SEAL 25 x 35 x 6 TCV (BAB SL)	**690.0090.A**	**0**	1
3	WHITE GALVANISED SCREW TCCE M10x30 UNI 5931 8.8	**521.0010.A**	**L030**	16
4	SCHNORR WASHER ø10xø15.8 H=1 BLUED	**550.0015.A**	**0**	16
5	XV3 101,6 SAE B FLANGE	**300.0036.A**	**0**	1
6	INJECTION-MOLDED SEAL XV3 (NBR 740/70)	**300.0005.C**	**0**	2
7	XV3 BACK-UP ELEMENT FOR BALANCING	**300.0003.A**	**0**	2
8	EXTERNAL BACK-UP ELEMENT XV3	**300.0004.A**	**0**	2
9	XV3 BUSH H=27	**300.0009.A**	**0**	2
10	PIN ø6x18	**570.0044.A**	**0**	4
11	BODY W/THREAD BSP STANDARD - cc=38	**300.0026.A**	**H85**	1
12	PLASTIC PLUG ø32	**580.0001.A**	**D32**	2
13	OR 17.13 x 2.62	**650.0086.A**	**0**	1
14	SCP04 SAE - SPLINED PRIMARY DRIVING GEAR	**300.0049.A**	**CC38**	1
15	COND2 - PERFORATED DRIVEN GEAR	**300.0010.A**	**CC38**	1
16	STANDARD XV3 COVER	**300.0034.A**	**0**	1

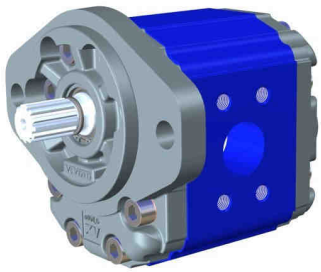
unidirectional pump - series XV

XV-3P

SAE B TYPE PUMP
ø101.6 FLANGE - SPLINED SHAFT

X	3	P	78	32	I	O	O	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	O	inlet - SAE 30,18 X 58,72 - ø32 - 7/16-14UNC-2B
	OUT	O	outlet - SAE 30,18 X 58,72 - ø32 - 7/16-14UNC-2B
Cover		A	standard



Reference **XP332**

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	cm3/rev	P1 bar	P3 bar	Left rotation	Right rotation
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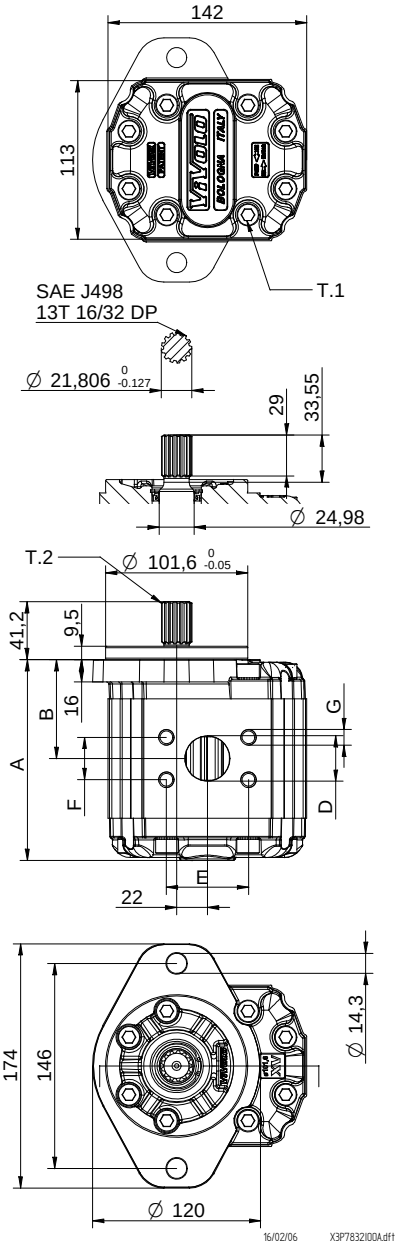
XV-3P/18	17,37	300	320	X 3 P 68 31 I N N A	X 3 P 68 32 I N N A
XV-3P/21	21,10	280	300	X 3 P 70 31 I N N A	X 3 P 70 32 I N N A
XV-3P/27	26,97	250	270	X 3 P 72 31 I N N A	X 3 P 72 32 I N N A
XV-3P/32	32,27	250	270	X 3 P 74 31 I O O A	X 3 P 74 32 I O O A
XV-3P/38	38,47	250	270	X 3 P 78 31 I O O A	X 3 P 78 32 I O O A
XV-3P/43	43,44	250	270	X 3 P 79 31 I O O A	X 3 P 79 32 I O O A
XV-3P/47	47,16	230	250	X 3 P 80 31 I O O A	X 3 P 80 32 I O O A
XV-3P/51	50,88	230	250	X 3 P 81 31 I O O A	X 3 P 81 32 I O O A
XV-3P/54	54,60	230	250	X 3 P 82 31 I O O A	X 3 P 82 32 I O O A
XV-3P/61	60,81	230	250	X 3 P 83 31 I P P A	X 3 P 83 32 I P P A
XV-3P/64	64,53	210	230	X 3 P 85 31 I P P A	X 3 P 85 32 I P P A
XV-3P/70	70,74	200	220	X 3 P 86 31 I P P A	X 3 P 86 32 I P P A
XV-3P/74	74,46	180	200	X 3 P 87 31 I P P A	X 3 P 87 32 I P P A
XV-3P/90	86,87	150	170	X 3 P 89 31 I P P A	X 3 P 89 32 I P P 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	E	F	G
	kg	mm	mm	IN - OUT			
XV-3P/15	7,010	124,0	61,0	ø25	52,37	26,19	3/8-16UNC-2B
XV-3P/18	7,070	126,0	62,0	ø25	52,37	26,19	3/8-16UNC-2B
XV-3P/21	7,150	129,0	63,5	ø25	52,37	26,19	3/8-16UNC-2B
XV-3P/27	7,250	133,0	65,5	ø25	52,37	26,19	3/8-16UNC-2B
XV-3P/32	7,390	138,0	68,0	ø32	58,72	30,18	7/16-14UNC-2B
XV-3P/38	7,520	143,0	70,5	ø32	58,72	30,18	7/16-14UNC-2B
XV-3P/43	7,630	147,0	72,5	ø32	58,72	30,18	7/16-14UNC-2B
XV-3P/47	7,710	150,0	74,0	ø32	58,72	30,18	7/16-14UNC-2B
XV-3P/51	7,790	153,0	75,5	ø32	58,72	30,18	7/16-14UNC-2B
XV-3P/54	7,870	156,0	77,0	ø32	58,72	30,18	7/16-14UNC-2B
XV-3P/61	8,010	161,0	79,5	ø38	69,85	35,71	1/2-13UNC-2B
XV-3P/64	8,090	164,0	81,0	ø38	69,85	35,71	1/2-13UNC-2B
XV-3P/70	8,220	169,0	83,5	ø38	69,85	35,71	1/2-13UNC-2B
XV-3P/74	8,300	172,0	85,0	ø38	69,85	35,71	1/2-13UNC-2B
XV-3P/90	8,570	182,0	90,0	ø38	69,85	35,71	1/2-13UNC-2B



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

unidirectional pump - series XV

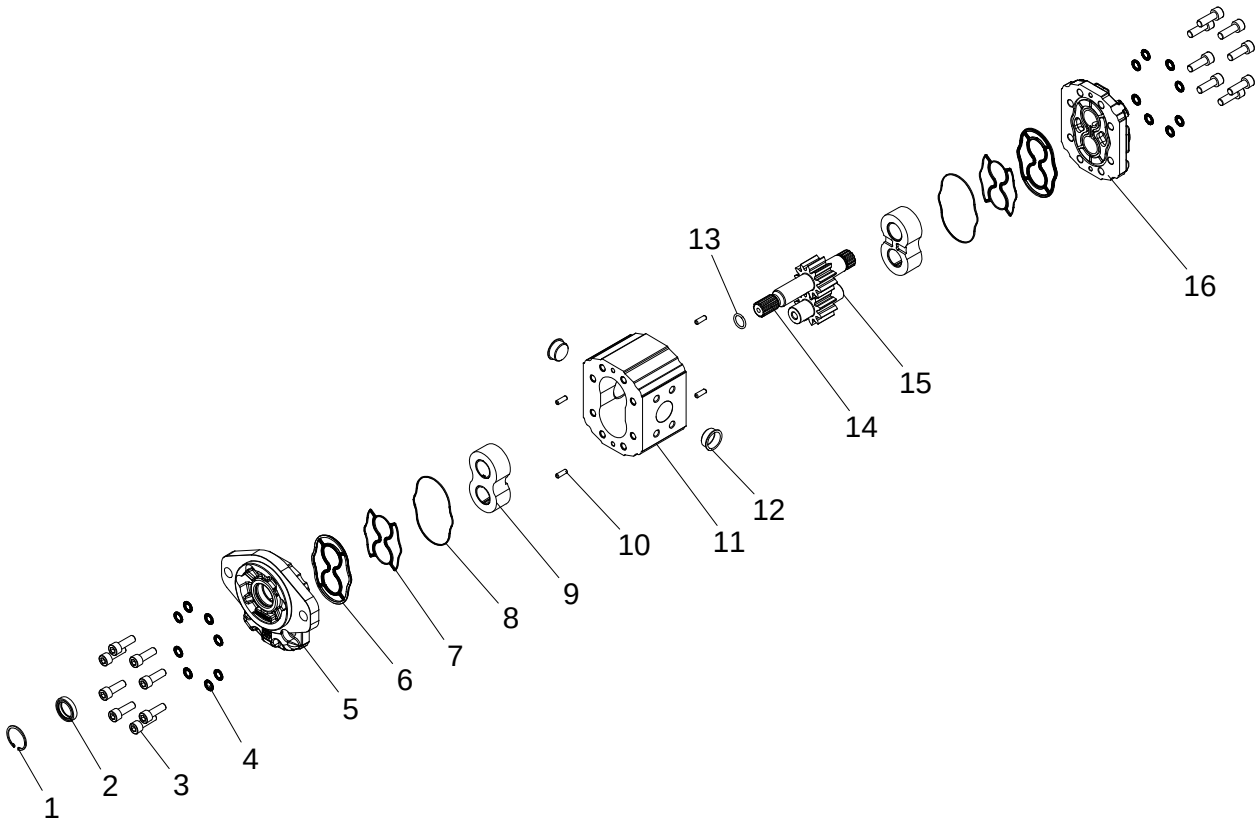
XV-3P

SAE B TYPE PUMP
ø101.6 FLANGE - SPLINED SHAFT

Reference	XP332

Example of ordering code:

X3P7832IOOA XV3P/38 - Ø101,6 SAE B /D - SCF04 - SAE Ø32 # - SAE Ø32 # - .



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Pos.	Item description	Item	Size	Quantity
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2	OIL SEAL 25 x 35 x 6 TCV (BAB SL)	**690.0090.A**	**0**	1
3	WHITE GALVANISED SCREW TCCE M10x30 UNI 5931 8.8	**521.0010.A**	**L030**	16
4	SCHNORR WASHER ø10xø15.8 H=1 BLUED	**550.0015.A**	**0**	16
5	XV3 101,6 SAE B FLANGE	**300.0036.A**	**0**	1
6	INJECTION-MOLDED SEAL XV3 (NBR 740/70)	**300.0005.C**	**0**	2
7	XV3 BACK-UP ELEMENT FOR BALANCING	**300.0003.A**	**0**	2
8	EXTERNAL BACK-UP ELEMENT XV3	**300.0004.A**	**0**	2
9	XV3 BUSH H=27	**300.0009.A**	**0**	2
10	PIN ø6x18	**570.0044.A**	**0**	4
11	STANDARD BOSCH FLANGED BODY H= 85	**300.0046.A**	**H85**	1
12	PLASTIC PLUG ø32	**580.0001.A**	**D32**	2
13	OR 17.13 x 2.62	**650.0086.A**	**0**	1
14	SCP04 SAE - SPLINED PRIMARY DRIVING GEAR	**300.0049.A**	**CC38**	1
15	COND2 - PERFORATED DRIVEN GEAR	**300.0010.A**	**CC38**	1
16	STANDARD XV3 COVER	**300.0034.A**	**0**	1