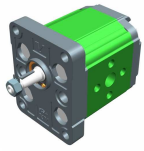
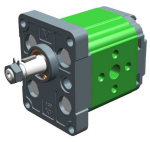
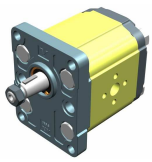
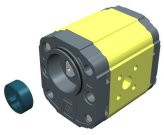
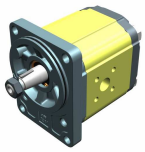
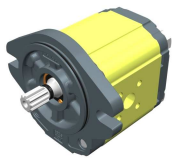
XV-0P

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

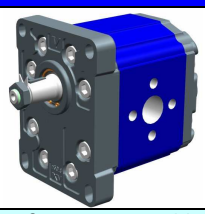
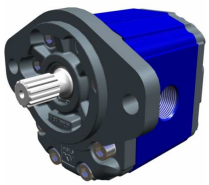
XV-1P

		
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

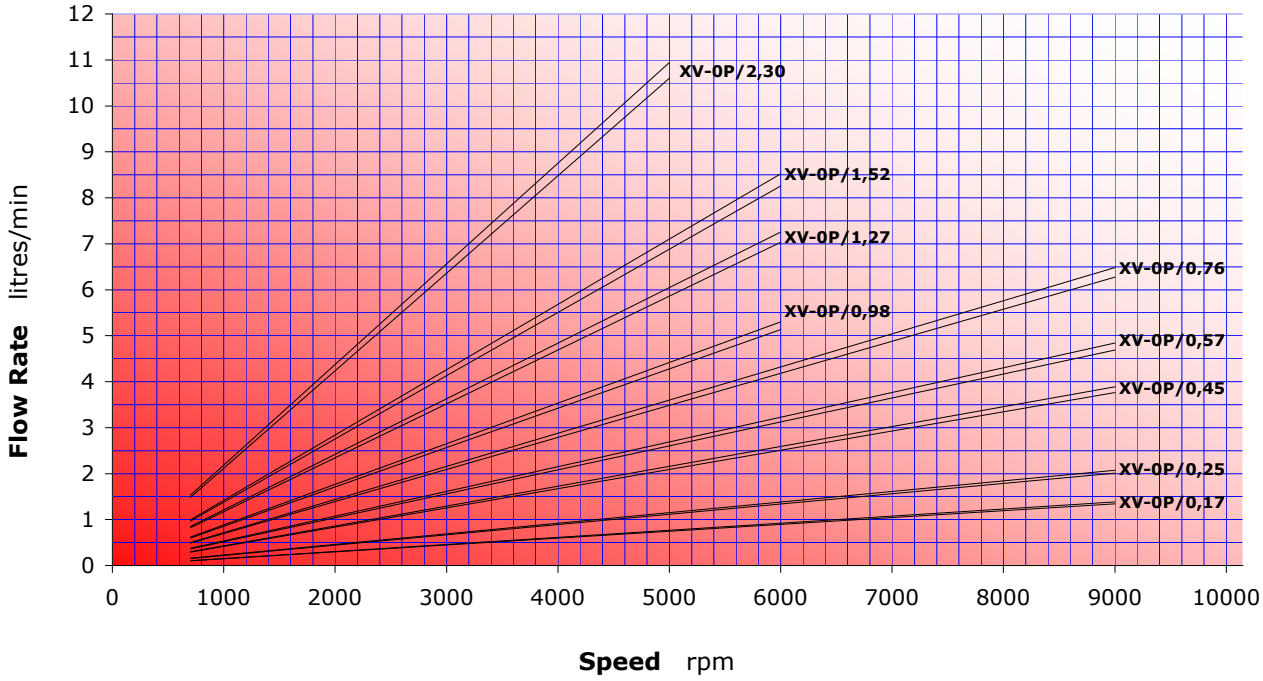
SYMBOL,	UNIT OF MEASUREMENT,	DESCRIPTION
qv	l/min	Flow rate
vi	cm^3/rev.	Displacement (volume of oil displaced per complete revolution of the shaft)
n	rpm	Shaft rotation speed
p1	bar	inlet pressure
p2	bar	outlet pressure
Δp	bar	Δp=p2 - p1 difference between outlet (OUT) and inlet (IN) pressure
Ph	kW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

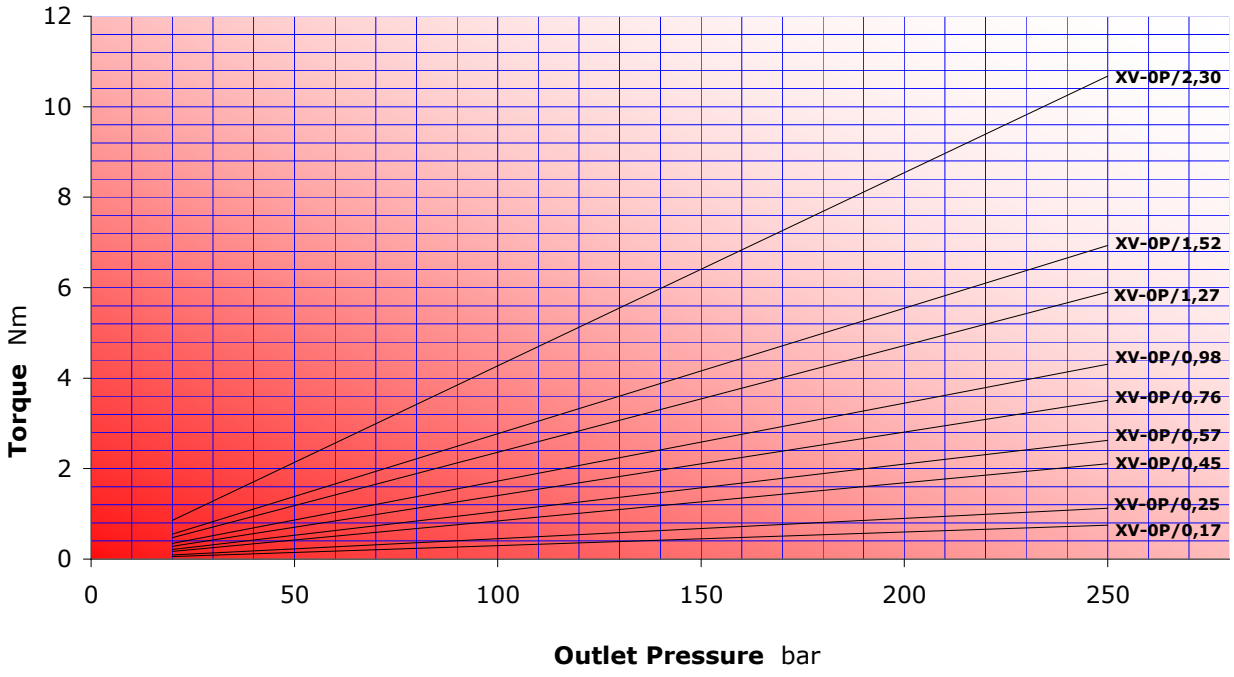
Constructive features

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	

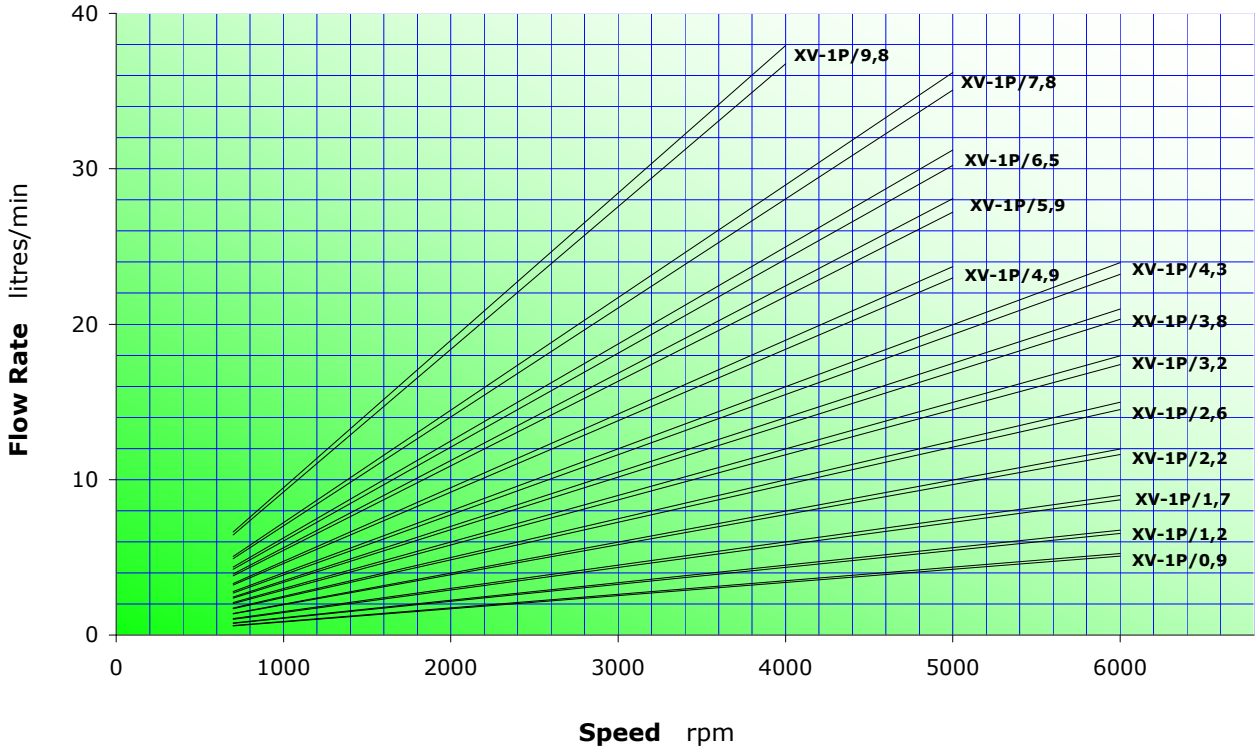
XV-0P CHARACTERISTIC FLOW RATE CURVES



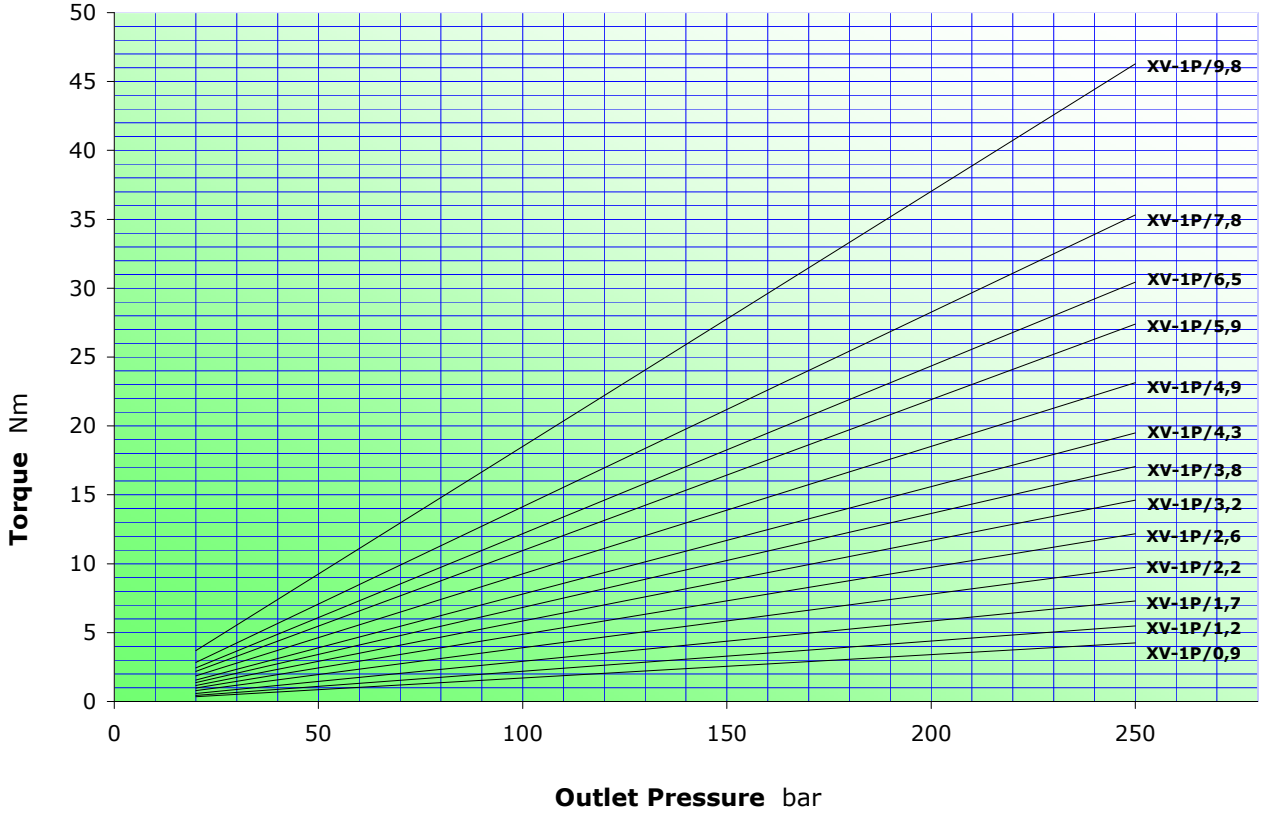
XV-0P MOTOR TORQUE



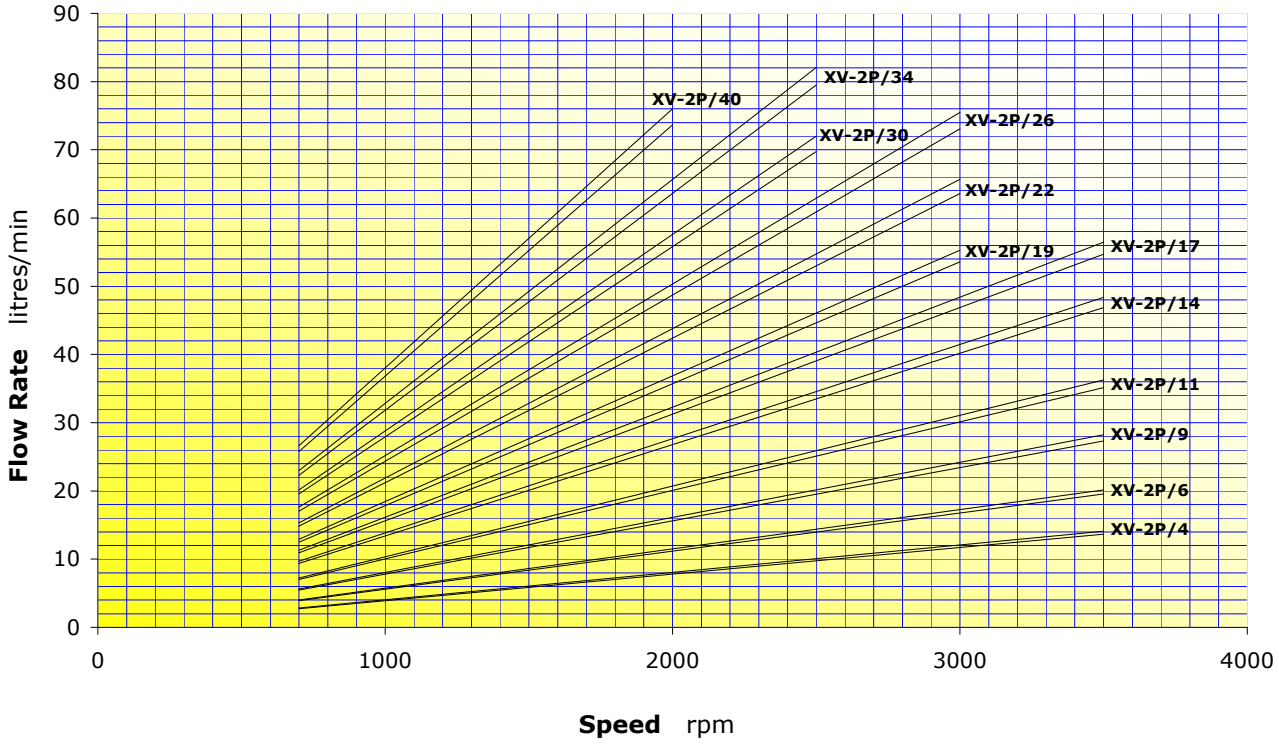
XV-1P CHARACTERISTIC FLOW RATE CURVES



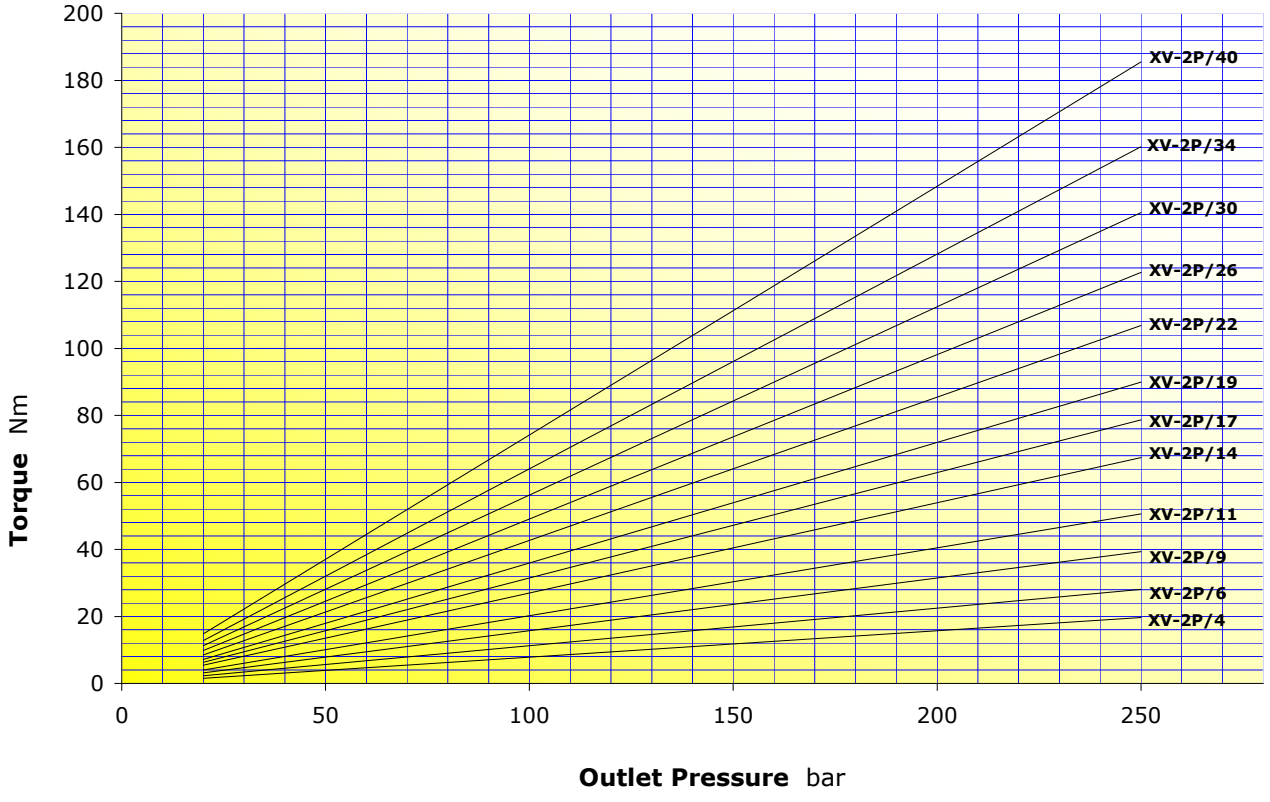
XV-1P MOTOR TORQUE



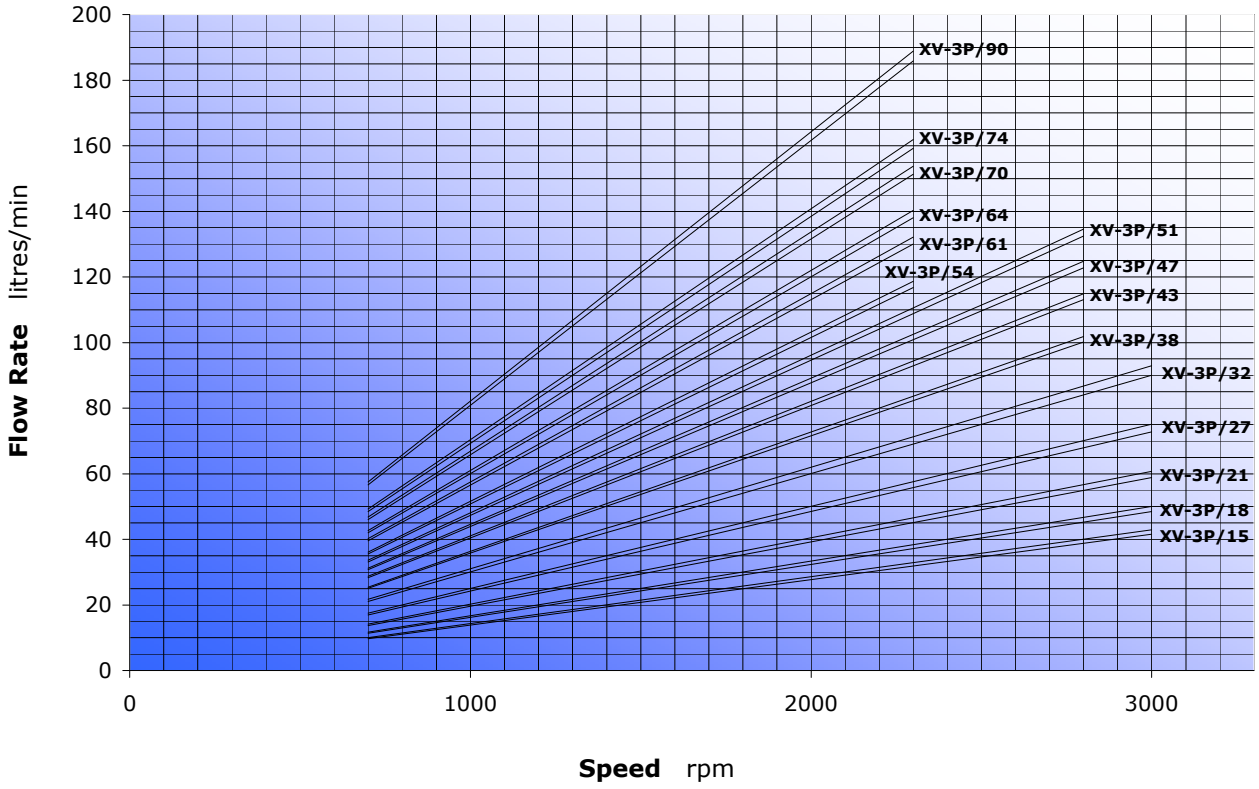
XV-2P CHARACTERISTIC FLOW RATE CURVES



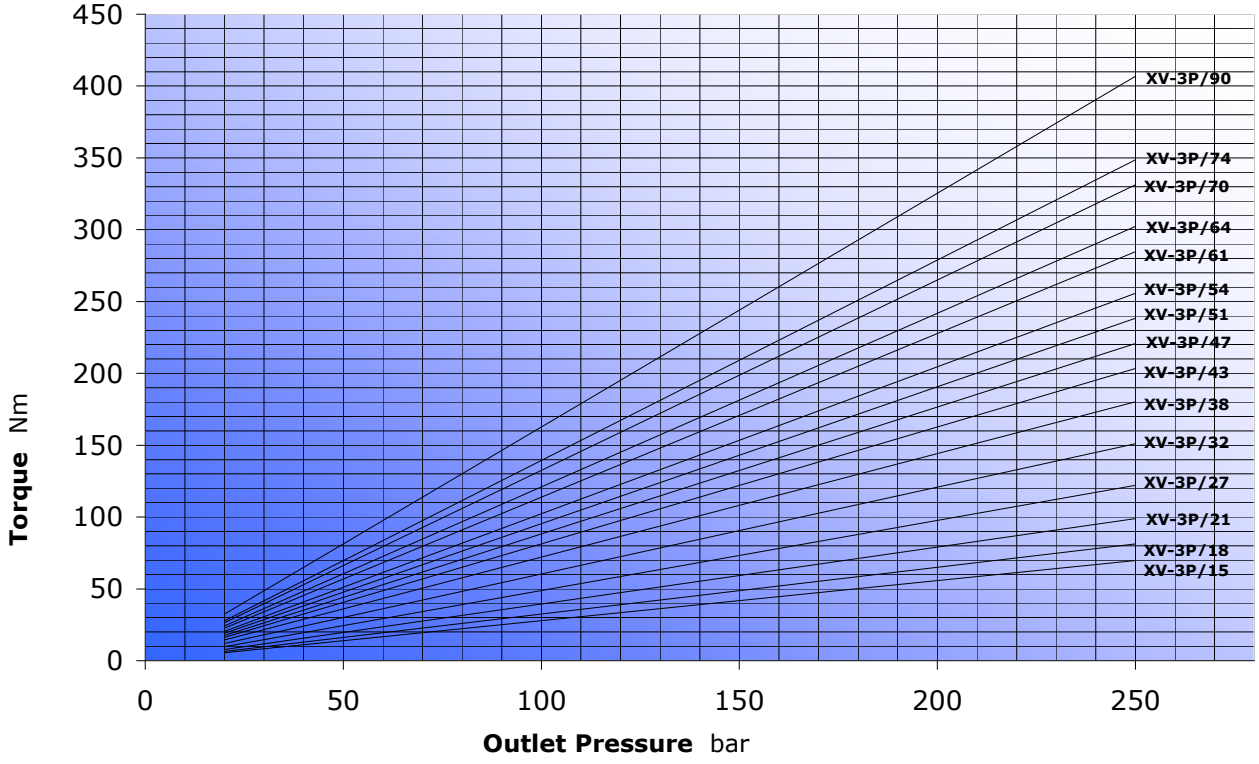
XV-2P MOTOR TORQUE



XV-3P CHARACTERISTIC FLOW RATE CURVES



XV-3P MOTOR TORQUE



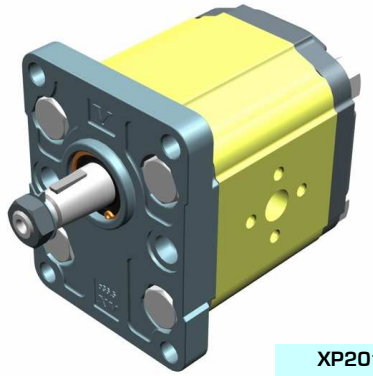
unidirectional pump - series XV

STANDARD EUROPEAN PUMP
ø36.5 FLANGE - TAPER SHAFT

XV-2P

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
Body OUT	O	outlet - Ø30 Ø13.5 M6
Cover	A	standard



XP201

Technical data table

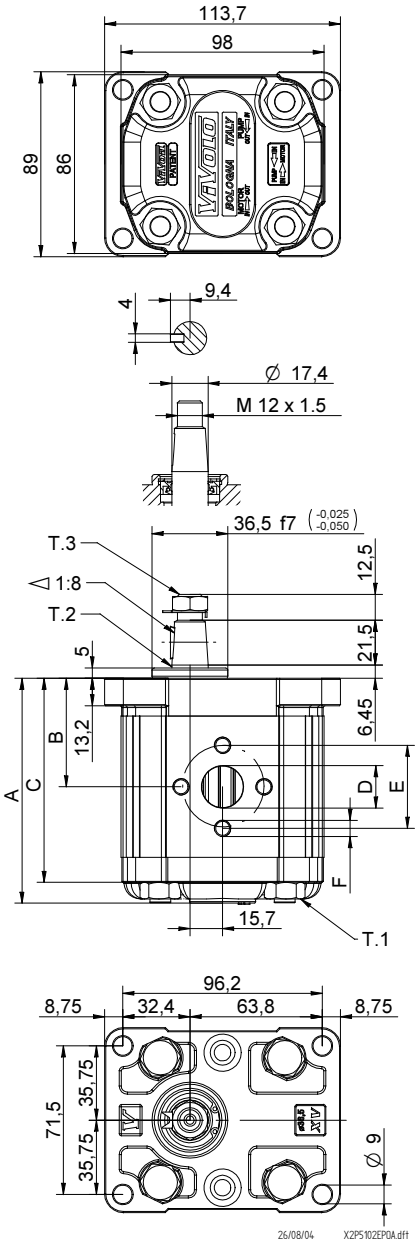
TYPE	Displacement	Max. Pressure		CODE	
	cm3/rev	P1 bar	P3 bar	Left rotation	Right rotation
XV-2P/04	4,20	260	300	X 2 P 41 01 E O O A	X 2 P 41 02 E O O A
XV-2P/06	6,00	260	300	X 2 P 43 01 E O O A	X 2 P 43 02 E O O A
XV-2P/09	8,40	260	300	X 2 P 45 01 E O O A	X 2 P 45 02 E O O A
XV-2P/11	10,80	260	300	X 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



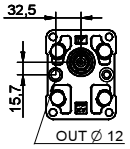
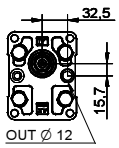
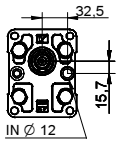
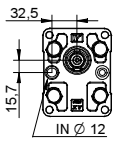
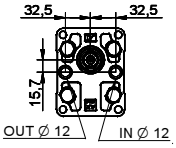
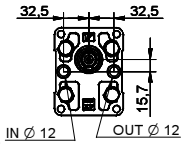
T.1 = 54÷58.9 [Nm] - screw tightening torque M10 T.3 = 40 [Nm] - torque wrench setting 19

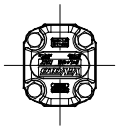
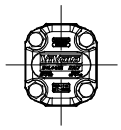
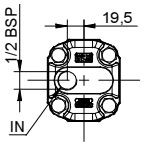
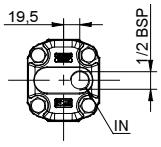
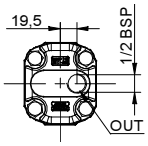
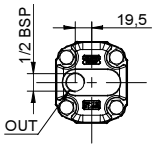
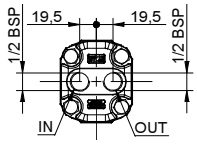
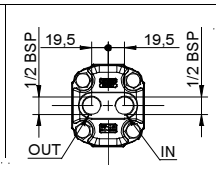
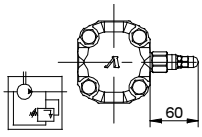
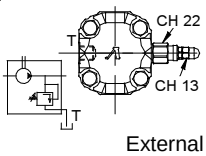
T.2 = 233.2 [Nm] - admissible shaft torque (N.B. When choosing a shaft, always check the admissible torque).

Table of variations

ø36.5 FLANGE

XV-2P

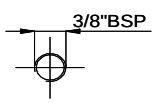
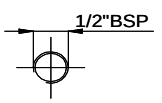
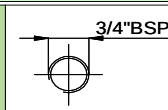
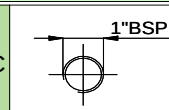
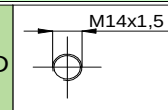
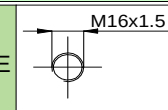
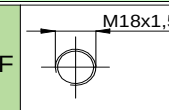
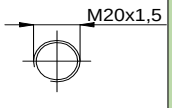
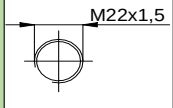
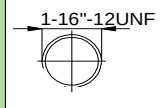
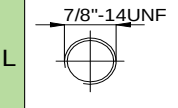
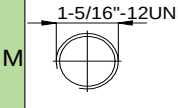
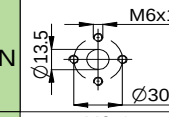
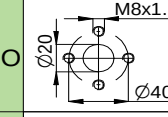
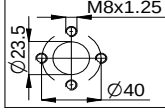
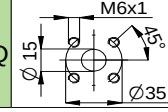
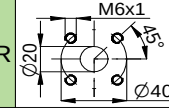
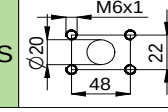
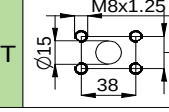
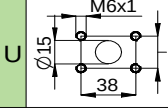
ø36.5 FLANGE				Shaft			
Left rotation		Right rotation					
	01		02	CI001 - Parallel T.2 = 44.1 [Nm]	A	CI002 - Parallel T.2 = 67.5 [Nm]	B
	03		04	CO001 - Tapered T.2 = 233.2 [Nm]	E	CO002 - Tapered T.2 = 233.2 [Nm]	F
	05		06	SCF02 - Splined T.2 = 86.1 [Nm]	G	SCF03 - Splined T.2 = 86.1 [Nm]	H
	07		08	SCF04 - Splined T.2 = 67.1 [Nm]	I	SCF01 - Splined T.2 = 86.2 [Nm]	L

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

Displacement	
TYPE	CODE
XV-2P/04	**41**
XV-2P/06	**43**
XV-2P/09	**45**
XV-2P/11	**47**
XV-2P/14	**49**
XV-2P/17	**51**
XV-2P/19	**53**
XV-2P/22	**55**
XV-2P/26	**57**
XV-2P/30	**59**
XV-2P/34	**61**
XV-2P/40	**63**

Standard bodies					
Displacement cm3/rev	Standard threads				
4	O - O	S - R	B - B	L - M	Z - Z
6	O - O	S - R	B - B	L - M	Z - Z
9	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)													
	A		B		C		D		E		F		G
	H		I		L		M		N		O		P
	Q		R		S		T		U		V	Closed Body	Z

unidirectional pump - series XV

STANDARD EUROPEAN PUMP
ø36.5 FLANGE - TAPER SHAFT

XV-2P

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
Body OUT	B	outlet - 1/2" GAS
Cover	A	standard

XP207

Technical data table

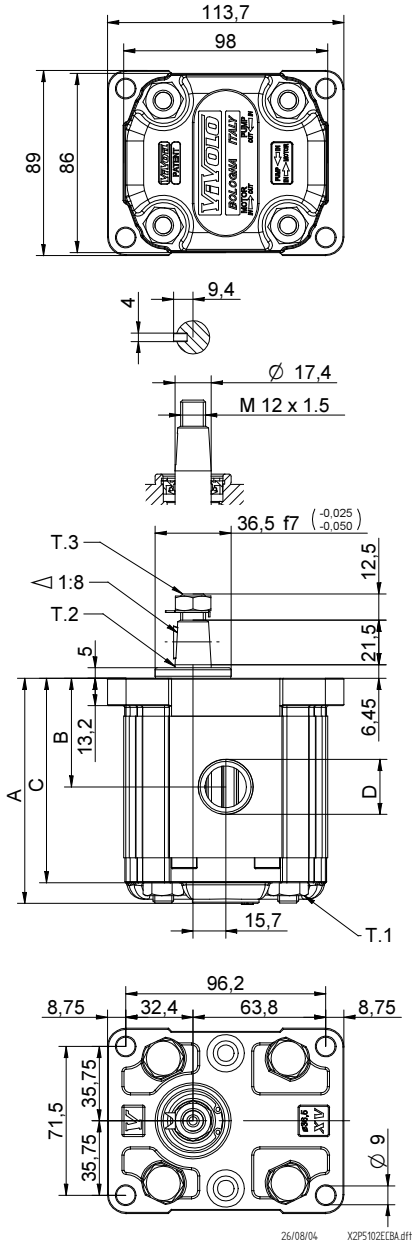
TYPE	Displacement	Max. Pressure		CODE	
	cm3/rev	P1 bar	P3 bar	Left rotation	Right rotation
XV-2P/04	4,20	260	300	X 2 P 41 01 E B B A	X 2 P 41 02 E B B A
XV-2P/06	6,00	260	300	X 2 P 43 01 E B B A	X 2 P 43 02 E B B A
XV-2P/09	8,40	260	300	X 2 P 45 01 E B B A	X 2 P 45 02 E B B A
XV-2P/11	10,80	260	300	X 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



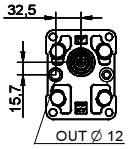
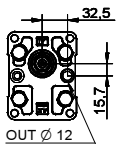
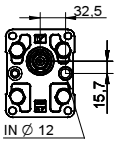
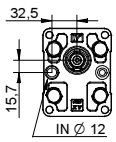
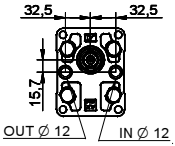
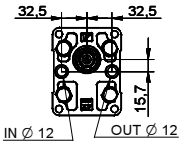
T.1 = 54÷58.9 [Nm] - screw tightening torque M10 T.3 = 40 [Nm] - torque wrench setting 19

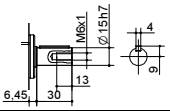
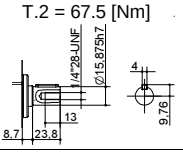
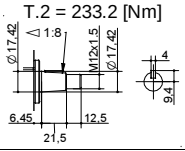
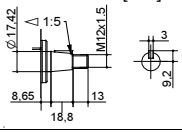
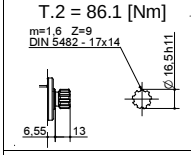
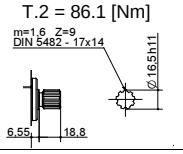
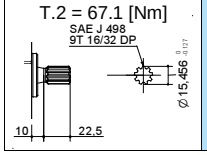
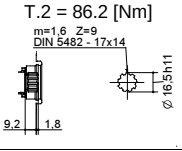
T.2 = 233.2 [Nm] - admissible shaft torque (N.B. When choosing a shaft, always check the admissible torque).

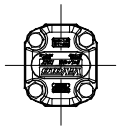
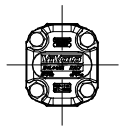
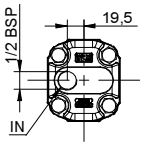
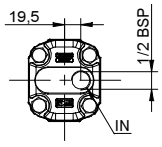
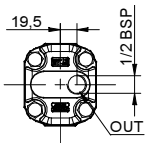
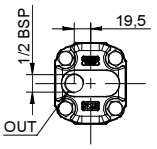
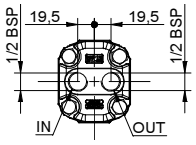
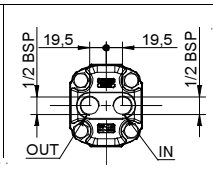
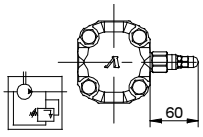
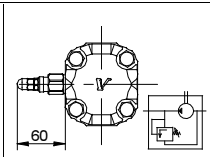
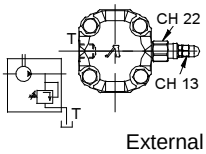
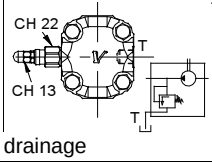
Table of variations

XV-2P

ø36.5 FLANGE

ø36.5 FLANGE			
Left rotation		Right rotation	
	01		02
	03		04
	05		06
	07		08

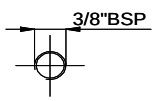
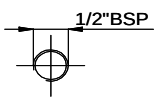
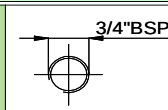
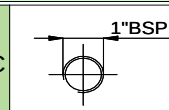
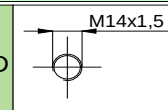
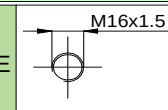
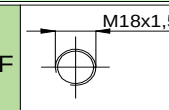
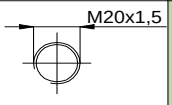
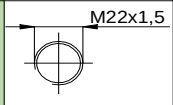
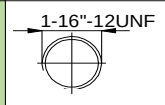
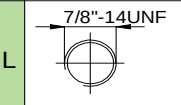
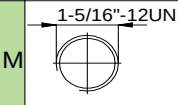
Shaft			
CI001 - Parallel T.2 = 44.1 [Nm]	A	CI002 - Parallel T.2 = 67.5 [Nm]	B
			
CO001 - Tapered T.2 = 233.2 [Nm]	E	CO002 - Tapered T.2 = 233.2 [Nm]	F
			
SCF02 - Splined T.2 = 86.1 [Nm]	G	SCF03 - Splined T.2 = 86.1 [Nm]	H
			
SCF04 - Splined T.2 = 67.1 [Nm]	I	SCF01 - Splined T.2 = 86.2 [Nm]	L
			

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

Displacement	
TYPE	CODE
XV-2P/04	41
XV-2P/06	43
XV-2P/09	45
XV-2P/11	47
XV-2P/14	49
XV-2P/17	51
XV-2P/19	53
XV-2P/22	55
XV-2P/26	57
XV-2P/30	59
XV-2P/34	61
XV-2P/40	63

Standard bodies					
Displacement cm3/rev	Standard threads				
4	O - O	S - R	B - B	L - M	Z - Z
6	O - O	S - R	B - B	L - M	Z - Z
9	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)													
	A		B		C		D		E		F		G
	H		I		L		M		N		O		P
	Q		R		S		T		U		V	Closed Body	Z

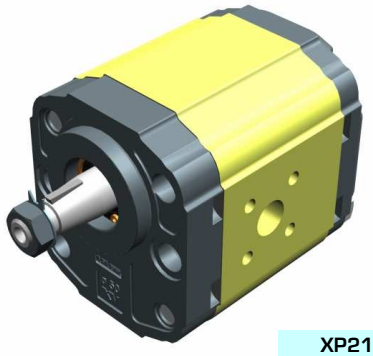
unidirectional pump - series XV

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

XV-2P

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
Body OUT	R	outlet - Ø35 a 45° Ø15 M6
Cover	A	standard



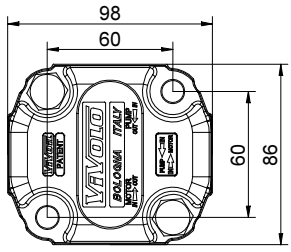
XP210

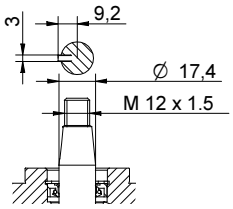
Technical data table

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

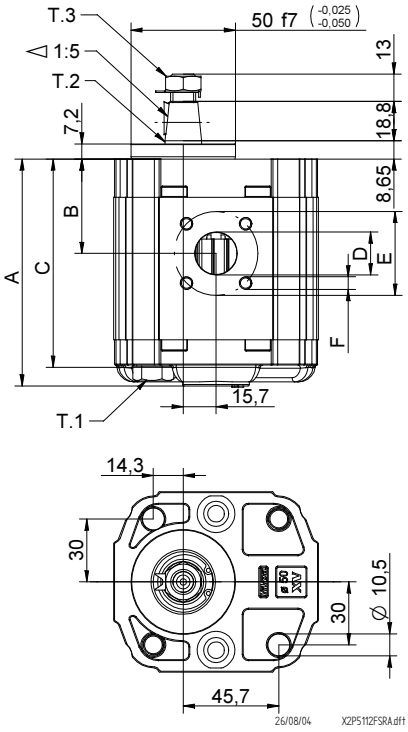
For heavy-duty applications, it is recommended to check the admissible torque of the shaft





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



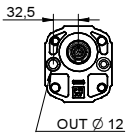
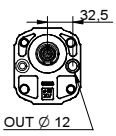
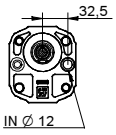
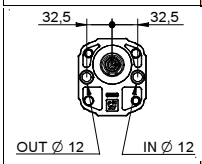
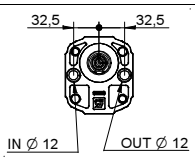
T.1 = 54÷58.9 [Nm] - screw tightening torque M10 T.3 = 40 [Nm] - torque wrench setting 19

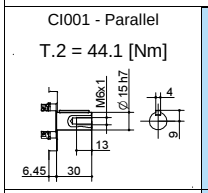
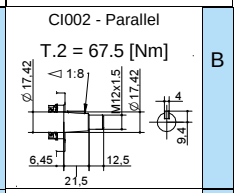
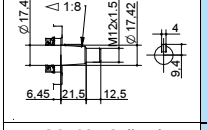
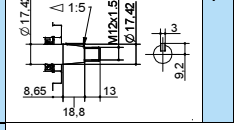
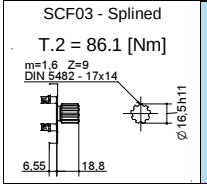
T.2 = 233.2 [Nm] - admissible shaft torque (N.B. When choosing a shaft, always check the admissible torque).

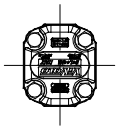
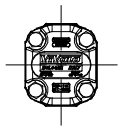
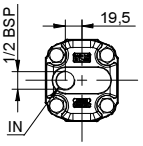
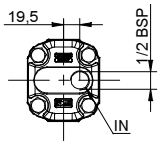
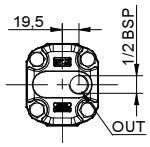
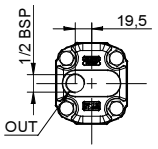
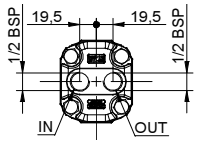
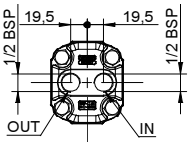
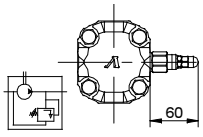
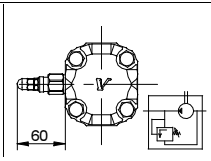
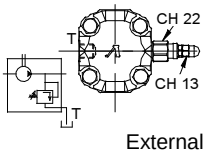
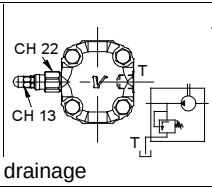
Table of variations

ø50 "BH" Body-Shaped FLANGE

XV-2P

ø50 "BH" Body-Shaped FLANGE			
Left rotation		Right rotation	
	11		12
	13		14
	15		16
	17		18

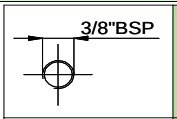
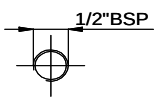
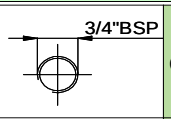
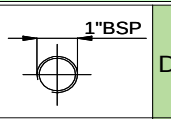
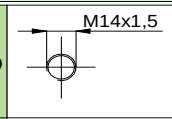
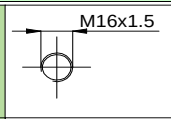
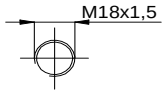
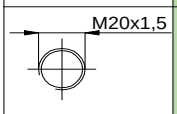
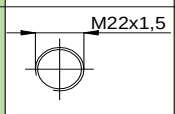
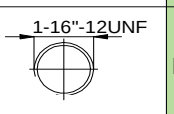
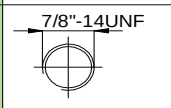
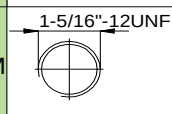
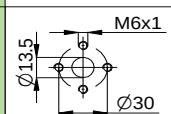
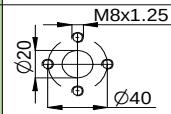
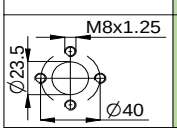
Shaft			
	A		B
	E		F
	H		

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

Displacement	
TYPE	CODE
XV-2P/04	**41**
XV-2P/06	**43**
XV-2P/09	**45**
XV-2P/11	**47**
XV-2P/14	**49**
XV-2P/17	**51**
XV-2P/19	**53**
XV-2P/22	**55**
XV-2P/26	**57**
XV-2P/30	**59**
XV-2P/34	**61**
XV-2P/40	**63**

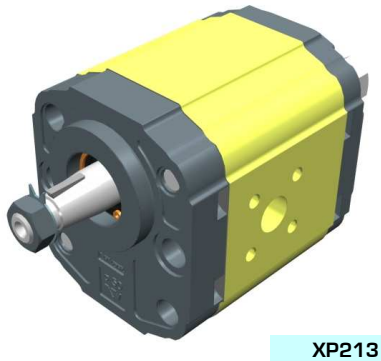
Standard bodies					
Displacement cm3/rev	Standard threads				
4	O - O	S - R	B - B	L - M	Z - Z
6	O - O	S - R	B - B	L - M	Z - Z
9	O - O	S - R	B - B	L - M	Z - Z
11	O - O	S - R	B - B	L - M	Z - Z
14	P - O	S - R	C - B	L - M	Z - Z
17	P - O	S - R	C - B	L - M	Z - Z
19	P - O	S - R	C - B	L - M	Z - Z
22	P - O	S - 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)														
	A		B		C		D		E		F		G
	H		I		L		M		N		O		P
	Q		R		S		T		U		V	Closed Body	Z

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
Body OUT	R	outlet - Ø35 a 45° Ø15 M6
Cover	A	standard



XP213

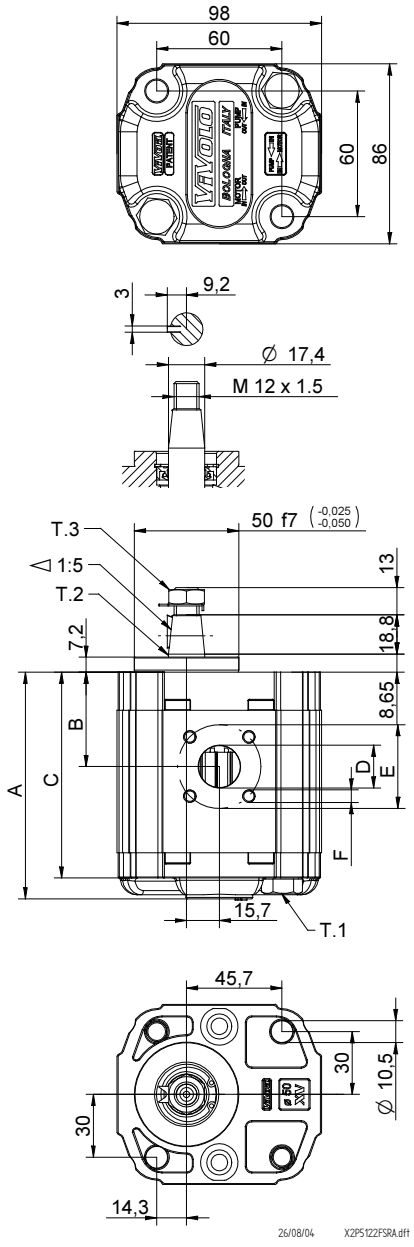
Technical data table

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

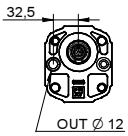
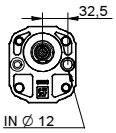
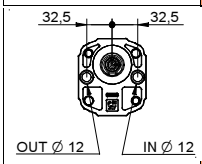
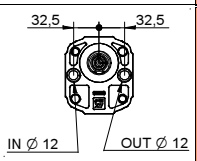


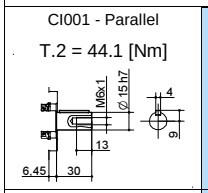
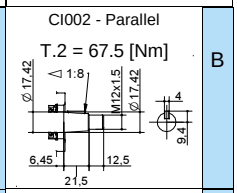
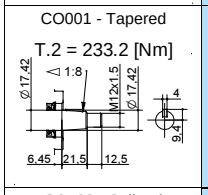
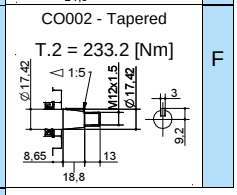
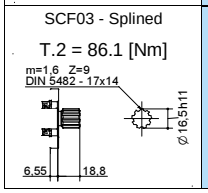
T.1 = 54÷58.9 [Nm] - screw tightening torque M10 T.3 = 40 [Nm] - torque wrench setting 19
T.2 = 233.2 [Nm] - admissible shaft torque (N.B. When choosing a shaft, always check the admissible torque).

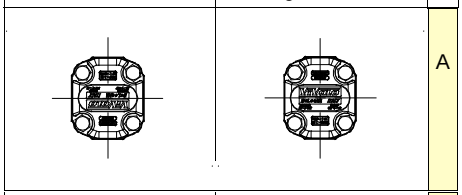
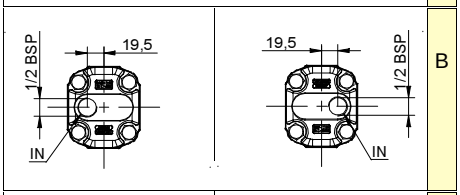
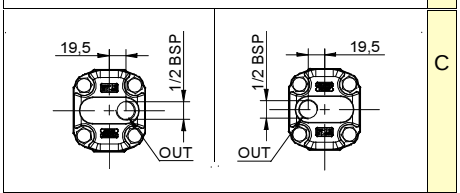
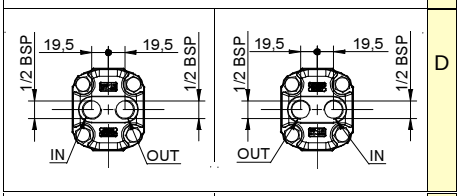
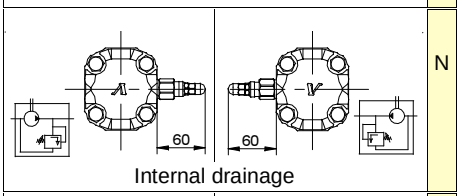
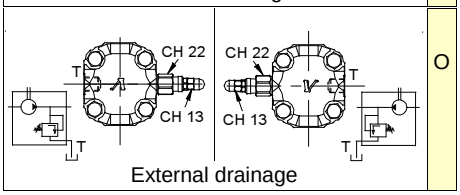
Table of variations

ø50 "HY" Body-Shaped FLANGE

XV-2P

ø50 "HY" Body-Shaped FLANGE			
Left rotation		Right rotation	
	21		22
	23		24
	25		26
	27		28

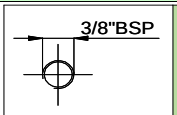
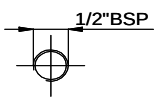
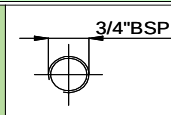
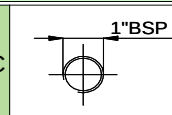
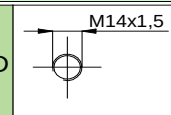
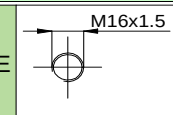
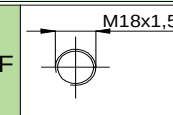
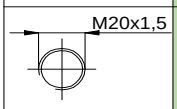
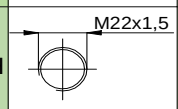
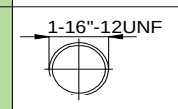
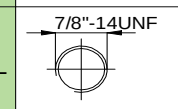
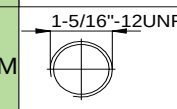
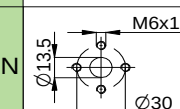
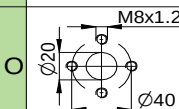
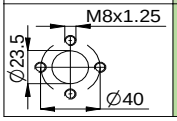
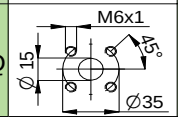
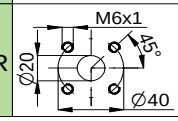
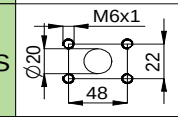
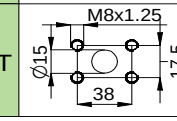
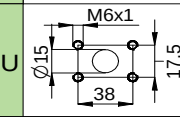
Shaft			
	A		B
	E		F
	H		

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

Displacement	
TYPE	CODE
XV-2P/04	**41**
XV-2P/06	**43**
XV-2P/09	**45**
XV-2P/11	**47**
XV-2P/14	**49**
XV-2P/17	**51**
XV-2P/19	**53**
XV-2P/22	**55**
XV-2P/26	**57**
XV-2P/30	**59**
XV-2P/34	**61**
XV-2P/40	**63**

Standard bodies					
Displacement cm3/rev	Standard threads				
4	O - O	S - R	B - B	L - M	Z - Z
6	O - O	S - R	B - B	L - M	Z - Z
9	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

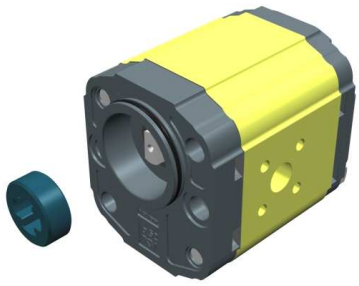
Table showing standard flange and thread combinations available in stock

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

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
Body OUT	R	outlet - Ø35 a 45° Ø15 M6
Cover	A	standard



XP216

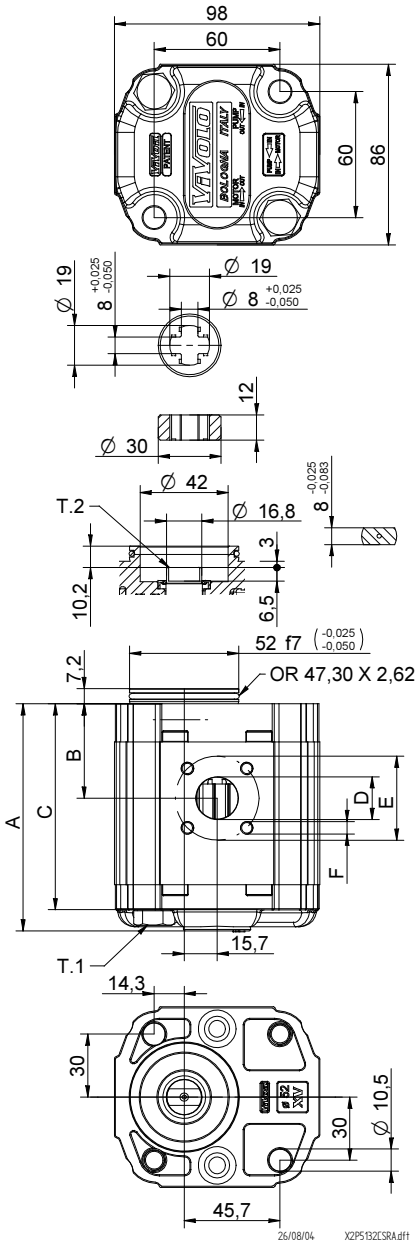
Technical data table

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

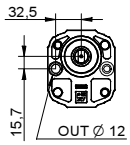
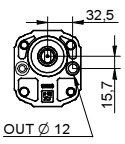
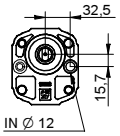
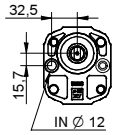
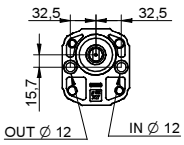
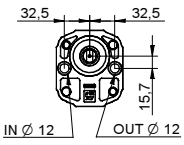


T.1 = 54÷58.9 [Nm] - screw tightening torque M10
T.2 = 60.5 [Nm] - admissible shaft torque (N.B. When choosing a shaft, always check the admissible torque).

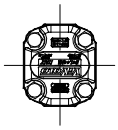
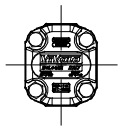
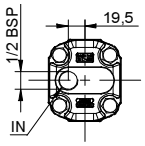
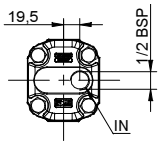
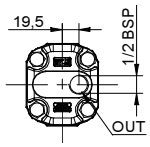
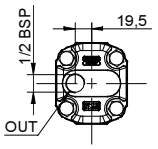
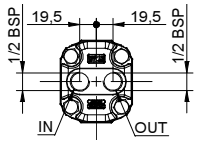
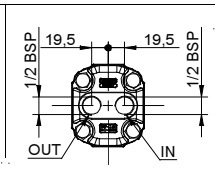
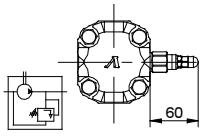
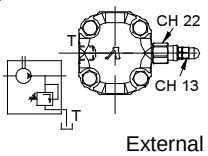
Table of variations

Standard German ø52 "BH" FLANGE

XV-2P

Standard German ø52 "BH" FLANGE			
Left rotation		Right rotation	
	31		32
	33		34
	35		36
	37		38

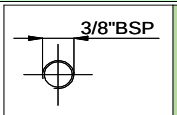
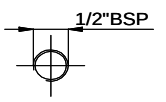
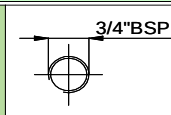
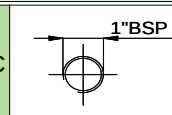
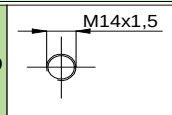
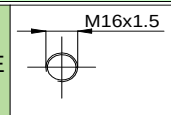
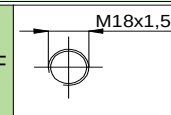
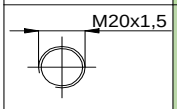
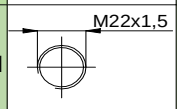
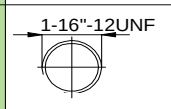
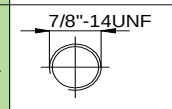
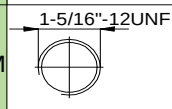
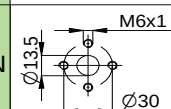
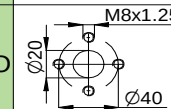
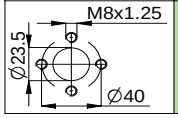
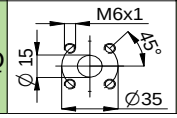
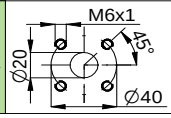
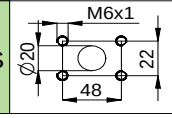
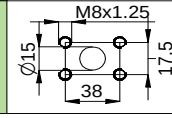
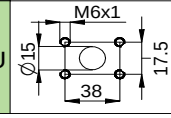
Shaft			
CF001 - Milled shank T.2 = 60.5 [Nm]	C	SCF05 - Splined T.2 = 86.2 [Nm]	K
SCF01 - Splined T.2 = 86.2 [Nm]	L		

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

Displacement	
TYPE	CODE
XV-2P/04	**41**
XV-2P/06	**43**
XV-2P/09	**45**
XV-2P/11	**47**
XV-2P/14	**49**
XV-2P/17	**51**
XV-2P/19	**53**
XV-2P/22	**55**
XV-2P/26	**57**
XV-2P/30	**59**
XV-2P/34	**61**
XV-2P/40	**63**

Standard bodies					
Displacement cm3/rev	Standard threads				
4	O - O	S - R	B - B	L - M	Z - Z
6	O - O	S - R	B - B	L - M	Z - Z
9	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)																					
	A		B		C		D		E		F		G
	H		I		L		M		N		O		P
	Q		R		S		T		U		V	Closed Body	Z

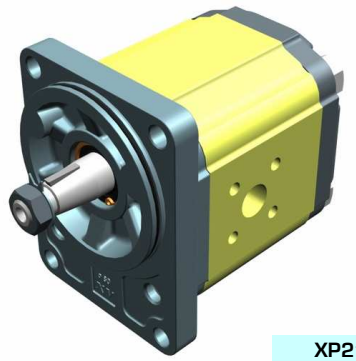
unidirectional pump - series XV

STANDARD GERMAN PUMP
ø80 FLANGE - TAPER SHAFT

XV-2P

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
Body OUT	R	outlet - Ø35 a 45° Ø15 M6
Cover	A	standard



XP217

Technical data table

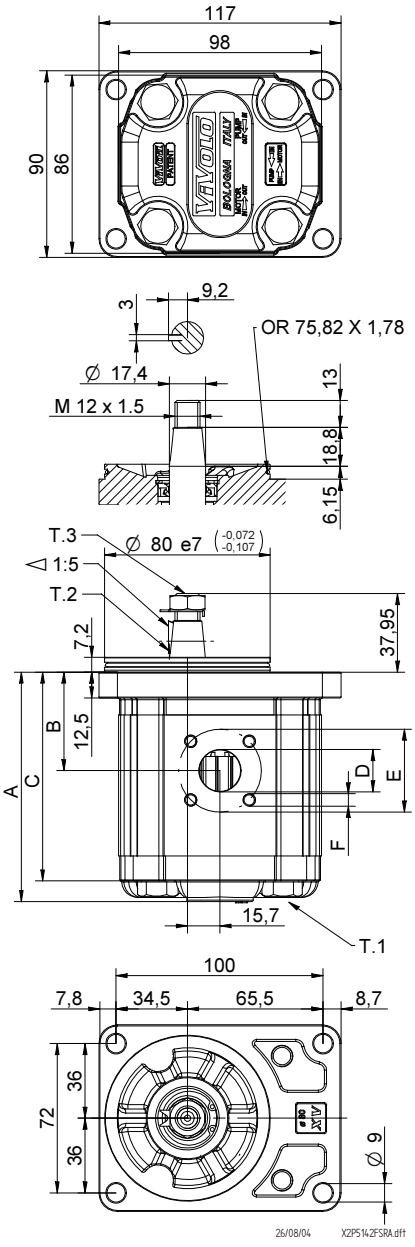
TYPE	Displacement	Max. Pressure		CODE	
	cm3/rev	P1 bar	P3 bar	Left rotation	Right rotation
XV-2P/04	4,20	260	300	X 2 P 41 41 F S R A	X 2 P 41 42 F S R A
XV-2P/06	6,00	260	300	X 2 P 43 41 F S R A	X 2 P 43 42 F S R A
XV-2P/09	8,40	260	300	X 2 P 45 41 F S R A	X 2 P 45 42 F S R A
XV-2P/11	10,80	260	300	X 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



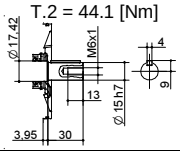
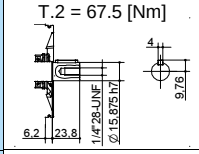
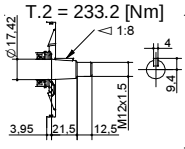
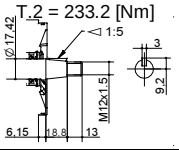
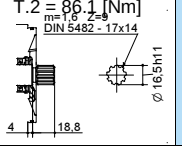
T.1 = 54÷58.9 [Nm] - screw tightening torque M10 T.3 = 40 [Nm] - torque wrench setting 19

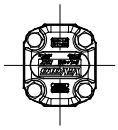
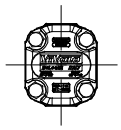
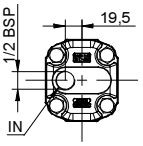
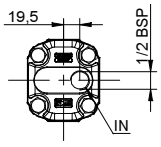
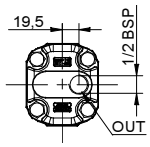
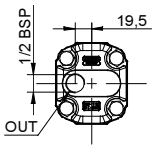
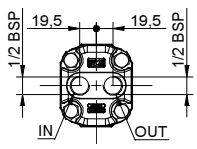
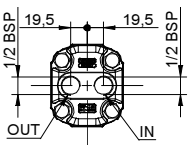
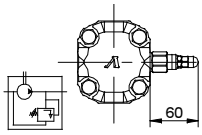
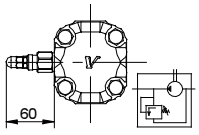
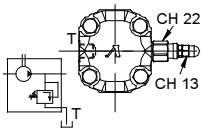
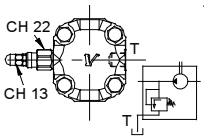
T.2 = 233.2 [Nm] - admissible shaft torque (N.B. When choosing a shaft, always check the admissible torque).

Table of variations

ø80 FLANGE

ø80 FLANGE			
Left rotation		Right rotation	
	41		42

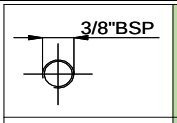
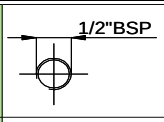
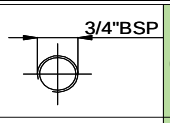
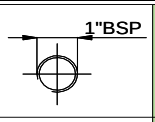
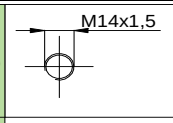
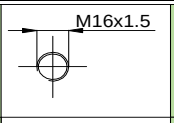
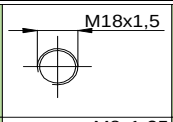
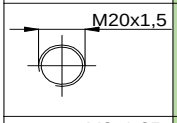
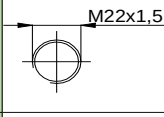
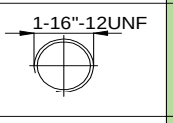
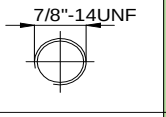
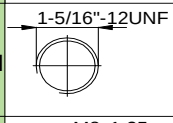
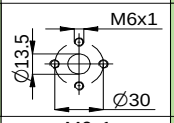
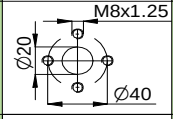
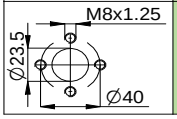
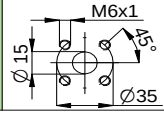
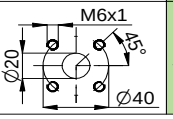
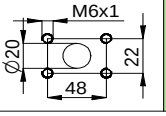
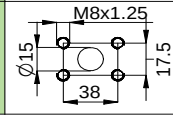
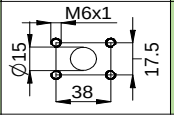
Shaft			
CI001 - Parallel T.2 = 44.1 [Nm]	A	CI002 - Parallel T.2 = 67.5 [Nm]	B
			
CO001 - Tapered T.2 = 233.2 [Nm]	E	CO002 - Tapered T.2 = 233.2 [Nm]	F
			
SCF03 - Splined T.2 = 86.1 [Nm]	H		
			

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

Displacement	
TYPE	CODE
XV-2P/04	41
XV-2P/06	43
XV-2P/09	45
XV-2P/11	47
XV-2P/14	49
XV-2P/17	51
XV-2P/19	53
XV-2P/22	55
XV-2P/26	57
XV-2P/30	59
XV-2P/34	61
XV-2P/40	63

Standard bodies					
Displacement cm3/rev	Standard threads				
4	O - O	S - R	B - B	L - M	Z - Z
6	O - O	S - R	B - B	L - M	Z - Z
9	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)														
	A		B		C		D		E		F		G
	H		I		L		M		N		O		P
	Q		R		S		T		U		V	Closed Body	Z

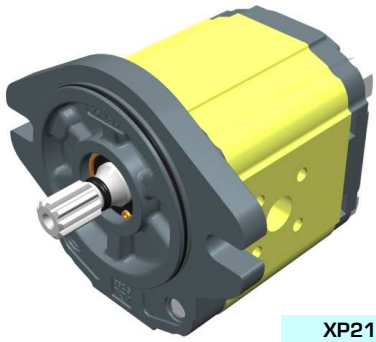
unidirectional pump - series XV

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

XV-2P

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



XP219

Technical data table

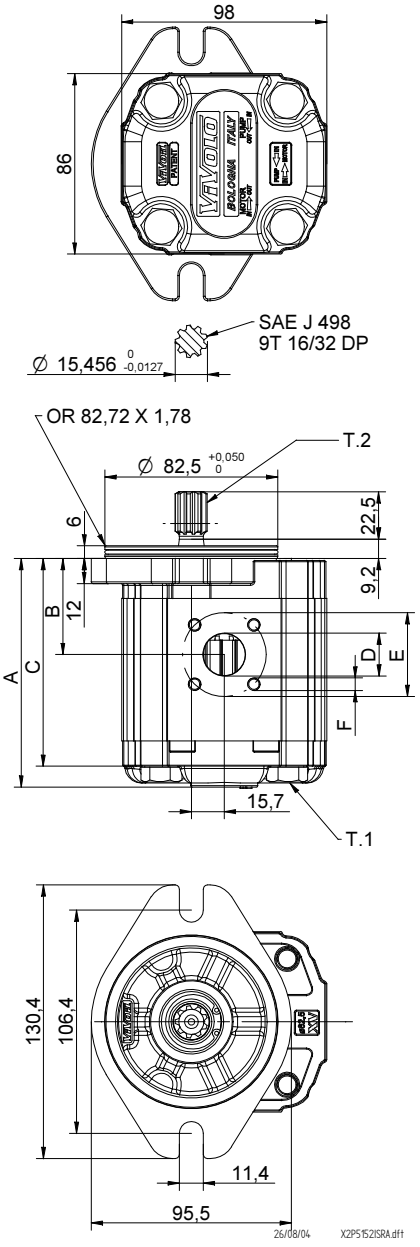
TYPE	Displacement	Max. Pressure		CODE															
	cm3/rev	P1 bar	P3 bar	Left rotation								Right rotation							
XV-2P/04	4,20	260	300	X	2	P	41	51	I	S	R	A	X	2	P	41	52	I	S	R	A
XV-2P/06	6,00	260	300	X	2	P	43	51	I	S	R	A	X	2	P	43	52	I	S	R	A
XV-2P/09	8,40	260	300	X	2	P	45	51	I	S	R	A	X	2	P	45	52	I	S	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

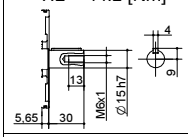
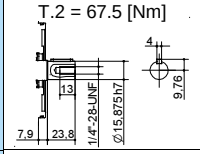
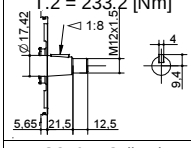
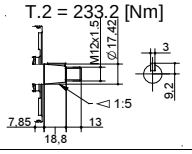
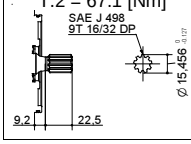
T.2 = 67.1 [Nm] - admissible shaft torque (N.B. When choosing a shaft, always check the admissible torque).

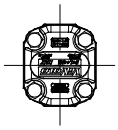
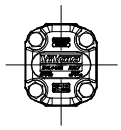
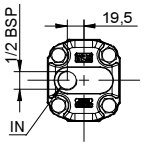
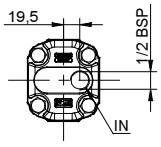
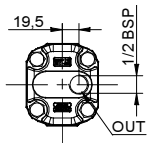
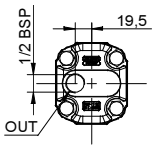
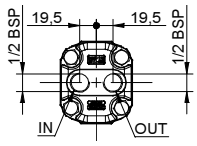
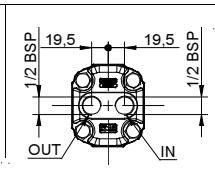
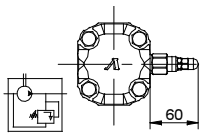
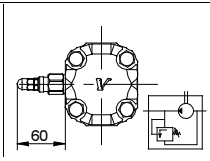
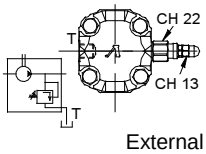
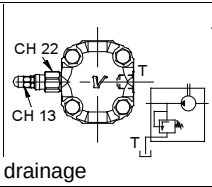
Table of variations

ø82.5 FLANGE "SAE A"

XV-2P

ø82.5 FLANGE "SAE A"			
Left rotation		Right rotation	
	51		52
 Without OR	53	 Without OR	54

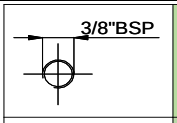
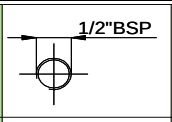
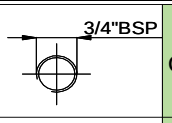
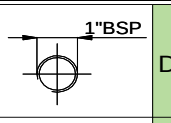
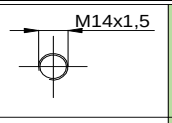
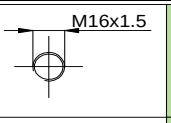
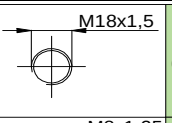
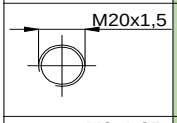
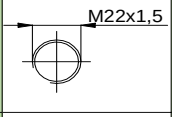
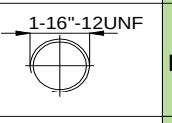
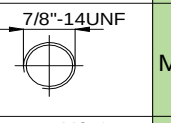
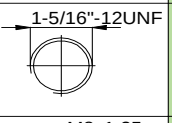
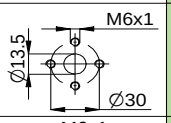
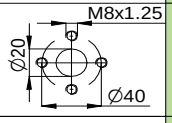
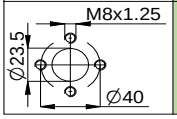
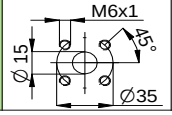
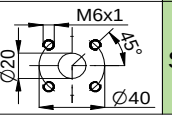
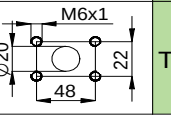
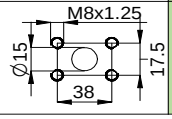
Shaft			
CI001 - Parallel T.2 = 44.1 [Nm]	A	CI002 - Parallel T.2 = 67.5 [Nm]	B
			
CO001 - Tapered T.2 = 233.2 [Nm]	E	CO002 - Tapered T.2 = 233.2 [Nm]	F
			
SCF04 - Splined T.2 = 67.1 [Nm]	I		
			

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

Displacement	
TYPE	CODE
XV-2P/04	41
XV-2P/06	43
XV-2P/09	45
XV-2P/11	47
XV-2P/14	49
XV-2P/17	51
XV-2P/19	53
XV-2P/22	55
XV-2P/26	57
XV-2P/30	59
XV-2P/34	61
XV-2P/40	63

Standard bodies					
Displacement cm3/rev	Standard threads				
4	O - O	S - R	B - B	L - M	Z - Z
6	O - O	S - R	B - B	L - M	Z - Z
9	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 22 48	T	 M8x1.25 Ø15 17.5 38	U	M6x1 Ø15 17.5 38	V	Closed Body	Z