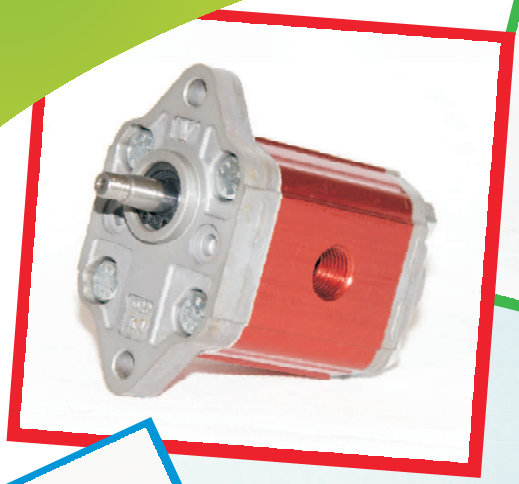
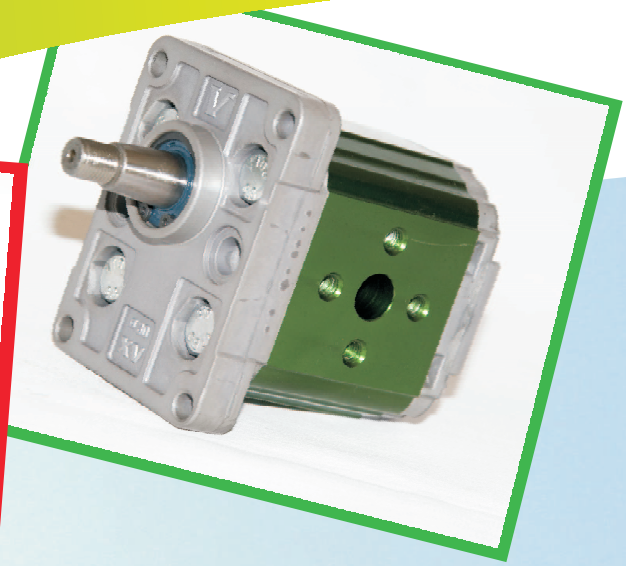
ViVoil



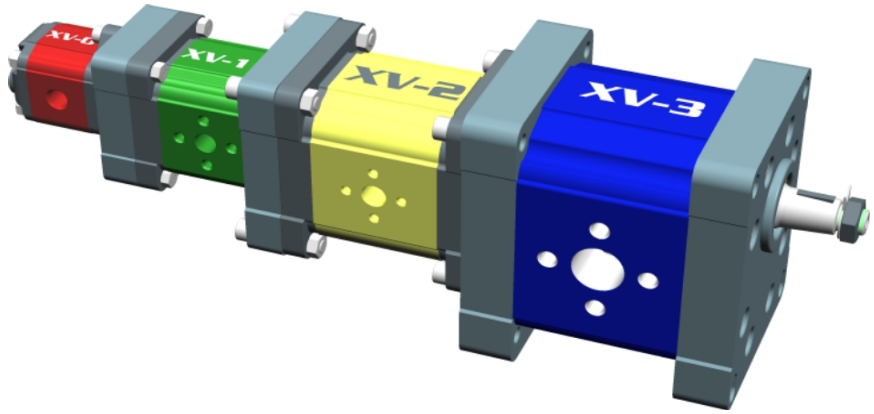


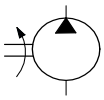
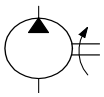
ENGLISH

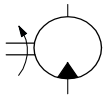
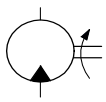
Unidirectional Motors

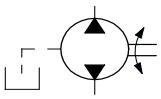
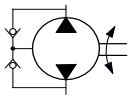
30-06-2008

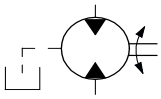
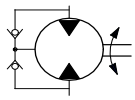
Symbols of Vivoil Oleodinamica Vivolo products



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

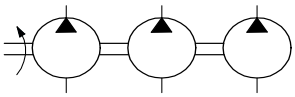
XV-0U	Unidirectional Motor	
XV-1U	Left Rotation	Right Rotation
XV-2U		
XV-3U		

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

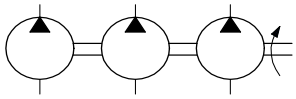
XV-0M	Reversible Motor	
XV-1M	External drainage	Internal drainage
XV-2M		
XV-3M		

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

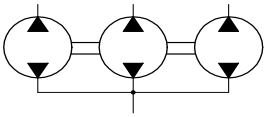
Left Rotation



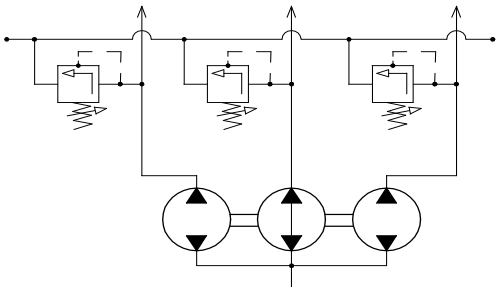
Right Rotation



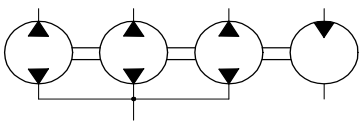
KV -DF	Flow divider



KV -DFV	Flow divired with valves



KV -DF+M	Flow divider with motor



UNIDIRECTIONAL MOTORS

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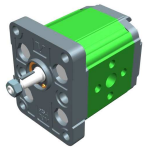
XV-0U

XV-1U



UNIDIRECTIONAL MOTORS

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XV-2U

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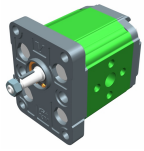
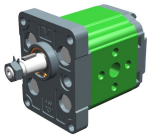
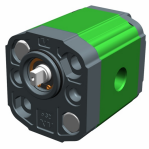
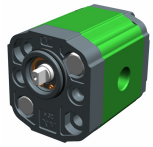
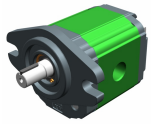
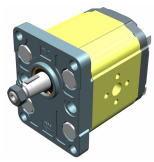
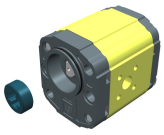
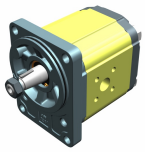
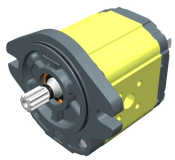
XV-0U

		
References: XU-001	References: XU-012	References: XU-017
Standard Ø22 FLANGE	**Ø22 BH FLANGE**	**Ø22 HY FLANGE**

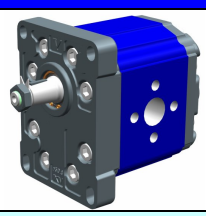
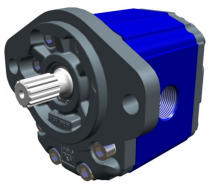
XV-1U

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

XV-2U

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

XV-3P

	
References : XU-301	References : XU-331
FLANGE Ø50,8 - Standard	**FLANGE Ø101,6 SAE B**

Vivoil Oleodinamica Vivolo s.r.l. presents a new series of gear motors called **XV-U**.
The quality of the product has been improved on by exploiting new and innovative solutions, both technical and constructive, for which the company has been **awarded 3 patents.**

The motors are divided into four groups: XV-0U XV1-U XV-2U XV-3U

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

Displacements from 0.45 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-1U 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-2U 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-3U 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 - Torque - Power - Pressures - Speeds

	TYPE	Displacement	Torque	Power	Max Inlet Pressure	Max Outlet Pressure	Min Starting Pressure	Min Speed	Max Speed
			1000 rev/min **100** bar						
XV-0U	**XV-0U/0.45**	0.45 cm^3/rev	0,61 Nm	0,06 KW	280 bar	1 bar	25 bar	700 rev/min	9000 rev/min
	XV-0U/0.57	0.56 cm^3/rev	0,76 Nm	0,08 KW	280 bar	1 bar	25 bar	700 rev/min	9000 rev/min
	XV-0U/0.76	0.75 cm3/rev	1,01 Nm	0,11 KW	280 bar	1 bar	25 bar	700 rev/min	9000 rev/min
	XV-0U/0.98	0.92 cm^3/rev	1,24 Nm	0,13 KW	280 bar	1 bar	20 bar	700 rev/min	6000 rev/min
	XV-0U/1.27	1.26 cm^3/rev	1,70 Nm	0,18 KW	280 bar	1 bar	15 bar	700 rev/min	6000 rev/min
	XV-0U/1.52	1.48 cm^3/rev	2,00 Nm	0,21 KW	280 bar	1 bar	10 bar	700 rev/min	6000 rev/min
	XV-0U/2.30	2.28 cm^3/rev	3,08 Nm	0,32 KW	210 bar	1 bar	10 bar	700 rev/min	5000 rev/min
XV-1U	**XV-1U/0.9**	0.91 cm^3/rev	1,23 Nm	0,13 KW	280 bar	6 bar	30 bar	700 rev/min	6000 rev/min
	XV-1U/1.2	1.17 cm^3/rev	1,58 Nm	0,17 KW	290 bar	6 bar	30 bar	700 rev/min	6000 rev/min
	XV-1U/1.7	1.56 cm^3/rev	2,11 Nm	0,22 KW	290 bar	6 bar	30 bar	700 rev/min	6000 rev/min
	XV-1U/2.2	2.08 cm^3/rev	2,81 Nm	0,29 KW	290 bar	6 bar	25 bar	700 rev/min	6000 rev/min
	XV-1U/2.6	2.60 cm^3/rev	3,52 Nm	0,37 KW	300 bar	6 bar	20 bar	700 rev/min	6000 rev/min
	XV-1U/3.2	3.12 cm^3/rev	4,22 Nm	0,44 KW	300 bar	6 bar	15 bar	700 rev/min	6000 rev/min
	XV-1U/3.8	3.64 cm^3/rev	4,92 Nm	0,52 KW	300 bar	6 bar	15 bar	700 rev/min	6000 rev/min
	XV-1U/4.3	4.16 cm^3/rev	5,63 Nm	0,59 KW	300 bar	6 bar	15 bar	700 rev/min	6000 rev/min
	XV-1U/4.9	4.94 cm^3/rev	6,68 Nm	0,70 KW	300 bar	6 bar	15 bar	700 rev/min	6000 rev/min
	XV-1U/5.9	5.85 cm^3/rev	7,91 Nm	0,83 KW	300 bar	6 bar	15 bar	700 rev/min	5000 rev/min
	XV-1U/6.5	6.50 cm^3/rev	8,79 Nm	0,92 KW	300 bar	6 bar	10 bar	700 rev/min	5000 rev/min
	XV-1U/7.8	7.54 cm^3/rev	10,20 Nm	1,07 KW	260 bar	6 bar	10 bar	700 rev/min	5000 rev/min
	XV-1U/9.8	9.88 cm^3/rev	13,37 Nm	1,40 KW	230 bar	6 bar	10 bar	700 rev/min	4000 rev/min
XV-2U	**XV-2U/4**	4.2 cm^3/rev	5,68 Nm	0,60 KW	300 bar	6 bar	30 bar	700 rev/min	3500 rev/min
	XV-2U/6	6.0 cm^3/rev	8,12 Nm	0,85 KW	300 bar	6 bar	25 bar	700 rev/min	3500 rev/min
	XV-2U/9	8.4 cm^3/rev	11,36 Nm	1,19 KW	300 bar	6 bar	20 bar	700 rev/min	3500 rev/min
	XV-2U/11	10.8 cm^3/rev	14,61 Nm	1,53 KW	300 bar	6 bar	20 bar	700 rev/min	3500 rev/min
	XV-2U/14	14.4 cm^3/rev	19,48 Nm	2,04 KW	290 bar	6 bar	15 bar	700 rev/min	3500 rev/min
	XV-2U/17	16.8 cm^3/rev	22,73 Nm	2,38 KW	270 bar	6 bar	15 bar	700 rev/min	3500 rev/min
	XV-2U/19	19.2 cm^3/rev	25,97 Nm	2,72 KW	250 bar	6 bar	15 bar	700 rev/min	3000 rev/min
	XV-2U/22	22.8 cm^3/rev	30,84 Nm	3,23 KW	240 bar	6 bar	15 bar	700 rev/min	3000 rev/min
	XV-2U/26	26.2 cm^3/rev	35,44 Nm	3,71 KW	210 bar	6 bar	15 bar	700 rev/min	3000 rev/min
	XV-2U/30	30.0 cm^3/rev	40,58 Nm	4,25 KW	200 bar	6 bar	15 bar	700 rev/min	2500 rev/min
	XV-2U/34	34.2 cm^3/rev	46,27 Nm	4,85 KW	190 bar	6 bar	15 bar	700 rev/min	2500 rev/min
	XV-2U/40	39.6 cm^3/rev	53,57 Nm	5,61 KW	180 bar	6 bar	15 bar	700 rev/min	2000 rev/min
XV-3U	**XV-3U/15**	14.89 cm^3/rev	20,14 Nm	2,11 KW	320 bar	6 bar	20 bar	700 rev/min	3000 rev/min
	XV-3U/18	17.37 cm^3/rev	23,50 Nm	2,46 KW	320 bar	6 bar	20 bar	700 rev/min	3000 rev/min
	XV-3U/21	21.10 cm^3/rev	28,54 Nm	2,99 KW	300 bar	6 bar	15 bar	700 rev/min	3000 rev/min
	XV-3U/27	26.97 cm^3/rev	36,49 Nm	3,82 KW	270 bar	6 bar	10 bar	700 rev/min	3000 rev/min
	XV-3U/32	32.27 cm^3/rev	43,66 Nm	4,57 KW	270 bar	6 bar	10 bar	700 rev/min	3000 rev/min
	XV-3U/38	38.47 cm^3/rev	52,04 Nm	5,45 KW	270 bar	6 bar	10 bar	700 rev/min	2800 rev/min
	XV-3U/43	43.44 cm^3/rev	58,77 Nm	6,15 KW	250 bar	6 bar	10 bar	700 rev/min	2800 rev/min
	XV-3U/47	47.16 cm^3/rev	63,80 Nm	6,68 KW	250 bar	6 bar	10 bar	700 rev/min	2800 rev/min
	XV-3U/51	50.88 cm^3/rev	68,83 Nm	7,21 KW	250 bar	6 bar	10 bar	700 rev/min	2800 rev/min
	XV-3U/54	54.60 cm^3/rev	73,86 Nm	7,74 KW	250 bar	6 bar	10 bar	700 rev/min	2300 rev/min
	XV-3U/61	60.81 cm^3/rev	82,26 Nm	8,61 KW	220 bar	6 bar	10 bar	700 rev/min	2300 rev/min
	XV-3U/64	64.53 cm^3/rev	87,30 Nm	9,14 KW	220 bar	6 bar	10 bar	700 rev/min	2300 rev/min
	XV-3U/70	70.74 cm^3/rev	95,70 Nm	10,02 KW	210 bar	6 bar	10 bar	700 rev/min	2300 rev/min
	XV-3U/74	74.46 cm^3/rev	100,73 Nm	10,55 KW	190 bar	6 bar	10 bar	700 rev/min	2300 rev/min
	XV-3U/90	86.87 cm^3/rev	117,52 Nm	12,31 KW	160 bar	6 bar	10 bar	700 rev/min	2300 rev/min

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

TYPE	cm3/rev		rpm						
			700	1000	1500	2000	2300	2500	3000
XV 3U/15	14,89	Flow rate l/min	9,90	14,15	21,22	28,29	32,54	35,37	42,44
XV 3U/18	17,37		11,55	16,51	24,76	33,01	37,96	41,26	49,52
XV 3U/21	21,10		14,03	20,04	30,06	40,08	46,10	50,11	60,13
XV 3U/27	26,97		17,94	25,62	38,43	51,24	58,93	64,05	76,86
XV 3U/32	32,27		21,46	30,65	45,98	61,31	70,50	76,63	91,96
XV 3U/38	38,47		25,58	36,55	54,82	73,09	84,06	91,37	
XV 3U/43	43,44		28,88	41,26	61,89	82,53	94,91	103,16	
XV 3U/47	47,16		31,36	44,80	67,20	89,60	103,04	112,00	
XV 3U/51	50,88		33,84	48,34	72,51	96,67	111,17		
XV 3U/54	54,60		36,31	51,87	77,81	103,75	119,31		
XV 3U/61	60,81		40,44	57,77	86,65	115,54	132,87		
XV 3U/64	64,53		42,91	61,31	91,96	122,61	141,00		
XV 3U/70	70,74		47,04	67,20	100,80	134,40	154,56		
XV 3U/74	74,46		49,52	70,74	106,11	141,47	162,70		
XV 3U/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]
$T.2 \le \frac{vi \times \Delta p \times \eta m}{20 \times \pi}$ **T.2** = max. torque allowed by shaft [Nm]	XV-0U	[A] - CI001 - Parallel ø 7 - M 7x1 - key thk sp.2	2
		[B] - CF001 - Milled shank ø 7 - sp. 5	9,2
		[F] - CF005 - Milled shank ø 7 - sp.4,5 L = 9	8
	XV-1U	[A] - CI001 - Parallel ø12 - M10x1 - key thk. 3	25,8
		[B] - CI002 - Parallel ø12.7 - key thk. 3.2 (SAE)	32,8
		[C] - CF001 - Milled shank ø10 - thk.5 ("BH" Standard German)	13,8
		[D] - CF002 - Milled shank ø10 - thk.5	13,8
		[E] - CF003 - Milled shank ø11 - thk.6.63 (SAE)	25,8
		[F] - CO001 - Tapered 1:8 - ø10 - M7x1 - key thk.2.4	43
		[G] - CO002 - Tapered 1:8 - ø14 - M10x1 - key thk.3	119,8
		[I] - CO004 - Tapered 1:8 - ø12.7 - 5/16" 24UNF-2A - key thk.3.2 (SAE)	90,4
		[J] - SCF04 - Splined ø11.7 - z=6, H=17.5, m=1.6, DIN 5482 12x9	22,6
		[K] - SCF05 - Splined ø12.344, z=9, H=19, SAE J498 9T 20/40DB	32,2
		[L] - SCF02 - Splined ø11.9, z=15, H=17.5, m=0.75	42,8
		[O] - CO002+HK - Tapered 1:8 - ø14 - M10x1, HK 14-12, key thk.3	119,8
		[P] - CI001+HK - Parallel ø12 - M10x1 with bearing HK 14-12 - key thk.3	25,8
		[Q] - SCF01 - Splined ø11.9, z=15, H=9, m=0.75	42,8
		[R] - SCF03 - Splined ø11.9, z=15, H=9, m=0.75	42,8
	XV-2U	[A] - CI001 - Parallel ø15 - M6x1 - key thk.4	44.1
		[B] - CI002 - Parallel ø15.875 – 1/4"28-UNF key thk.4 (SAE A)	67.5
		[C] - CF001 - Miled shank ø15 - thk.8 ("BH" Standard German)	60.5
		[E] - CO001 - Tapered 1:8 - ø17,4 - M12x1,5 - key thk.4	233.2
		[F] - CO002 - Tapered 1:5 - ø17,4 - M12x1,5 - key thk.3	233.2
		[G] - SCF02 - Splined ø16,5 - z=9, H=13, m=1.6 DIN 5482 17x14	86.1
		[H] - SCF03 - Splined ø16.5 - z=9, H=18,8, m=1,6 DIN 5482 17x14	86.1
		[I] - SCF04 - Splined ø15.456 z=9, H=22.5, SAE J498 9T 16/32DP	67.1
		[K] - SCF05 - Splined ø16.5 z=9 H=8,1 m=1.6 DIN 5482 17x14	86.2
		[L] - SCF01- Splined ø16.5 z=9 H=9,2 m=1.6 DIN 5482 17x14	86.2
		[M] - CO001 - Tapered 1:8 - ø17,4 - M12x1,5 - key thk.3,2	233.2
	XV-3U	[A] - COP01 - Tapered 1:8 - ø22 – M14x1.5 - key thk.4	482
		[B] - CI001 - Parallel ø20 - M8 - key thk.5	181
		[C] - SCF03 - Splined ø21.5, z=13, H=25, m=1,6	223
		[H] - CI004 - Parallel ø22.225– 1/4"28-UNF key thk.6.35 (SAE B)	180
		[I] - SCF04 - Splined o ø21.8059, z=13, H=25, SAE J498 9T 16/32DP	264

NOTES:

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

Always make sure that the torque is less than or equal to the admissible torque of the shaft. Do not apply a direct axial or radial load on the shaft; if necessary, use suitable supports.

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

Never run the pump with oil and air solutions.

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

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

Useful calculation formulas

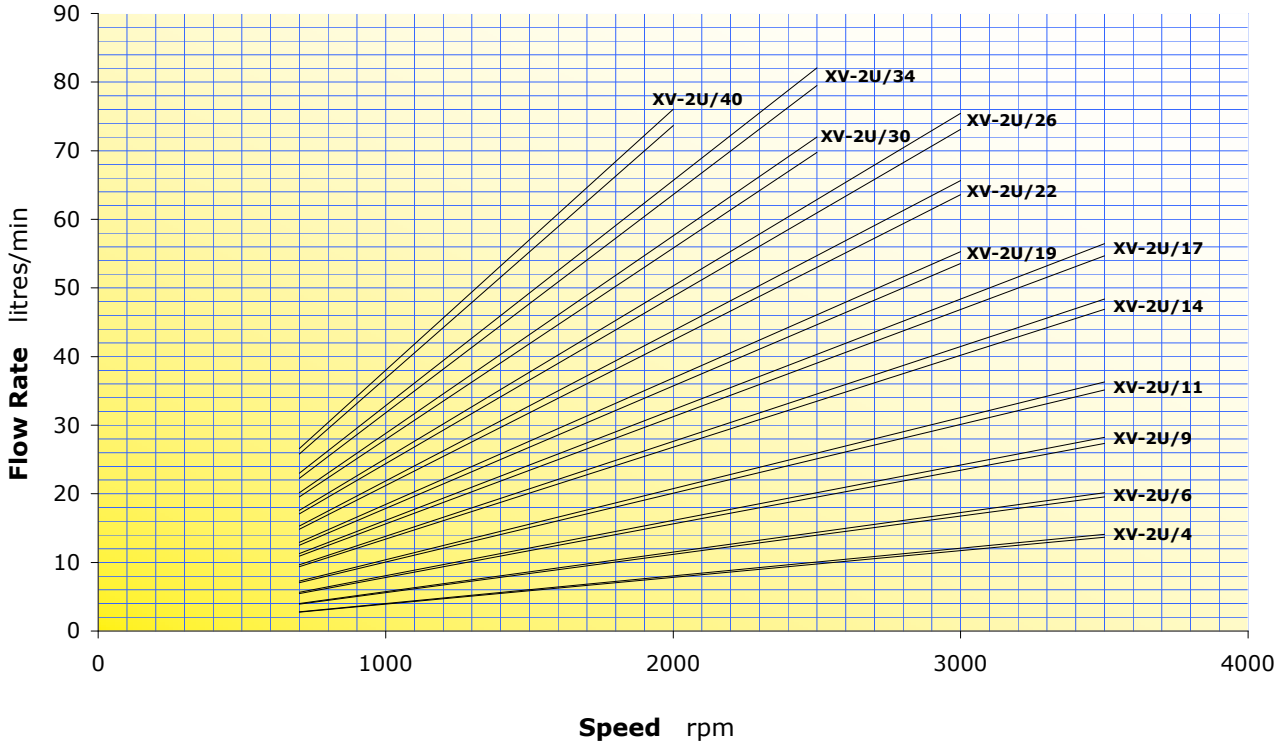
SYMBOL,	UNIT OF MEASUREMENT,	DESCRIPTION
qv	l/min	Flow rate
vi	cm^3/rev.	Displacement (volume of oil displaced per complete revolution of the shaft)
n	rpm	Shaft rotation speed
p1	bar	inlet pressure
p2	bar	outlet pressure
Δp	bar	Δp=p2 - p1 difference between outlet (OUT) and inlet (IN) pressure
Ph	kW	Hydraulic power delivered
Pm	kW	Mechanical power absorbed
T	Nm	Torque absorbed by shaft
ηv	-	0.91 – 0.96 volumetric efficiency (volumetric ratio between operation under load and loadless operation)
ηm	-	0.85 – 0.90 mechanical efficiency
ηt	-	ηt = ηv x ηm total efficiency

Basic Formulas	Derived Formulas	
$qv = \frac{vi \times n}{1000} \times \eta v$	$vi = \frac{qv \times 1000}{n \times \eta v}$	$n = \frac{qv \times 1000}{vi \times \eta v}$
$T = \frac{vi \times \Delta p \times \eta m}{20 \times \pi}$	$vi = \frac{T \times 20 \times \pi}{\Delta p \times \eta m}$	$\Delta p = \frac{T \times 20 \times \pi}{vi \times \eta m}$
$Ph = \frac{qv \times \Delta p}{600}$	$qv = \frac{Ph \times 600}{\Delta p}$	$\Delta p = \frac{Ph \times 600}{qv}$
$Pm = \frac{vi \times \Delta p \times n \times \eta m}{600000}$	$vi = \frac{Pm \times 600000}{\Delta p \times n \times \eta m}$	$\Delta p = \frac{600000 \times \eta m}{vi \times n \times \eta m}$

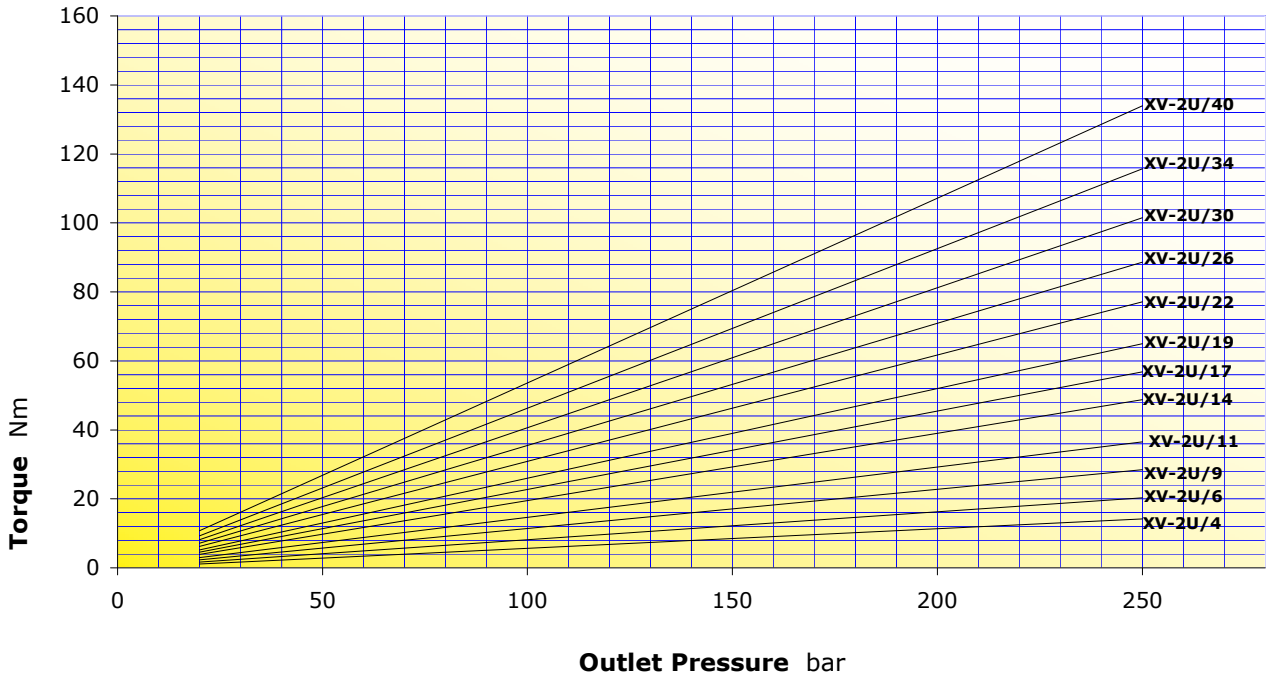
Constructive features

PART	MATERIAL	MECHANICAL FEATURES
PUMP BODY	Extruded alloy Series 7000, heat treated and anodised	Rp = 345 N/mm^2 (Yield strength) Rm = 382 N/mm^2 (Breaking strength)
FLANGE AND COVER	Die-cast aluminium alloy with excellent mechanical features, heat treated and anodised	Rp = 310÷350 N/mm^2 (Yield strength) Rm = 350÷400 N/mm^2 (Breaking strength)
GEAR BUSH BEARINGS	Special heat-treated tin alloy with excellent mechanical features and high anti-friction capacity. Self-lubricating bushes DU	Rp = 350 N/mm^2 (Yield strength) Rm = 390 N/mm^2 (Breaking strength)
GEARS	Steel UNI 7846	Rs = 980 N/mm^2 (Yield strength) Rm =1270÷1570 N/mm^2 (Breaking strength)
SEALS	A 727 Standard Acrylonitrile F 975 Viton FKM	70 Shore, thermal resistance 120℃ 80 Shore, thermal resistance 200℃
BACK-UP RINGS	Virgin PTFE Tecnil Q3	

XV-2U CHARACTERISTIC FLOW RATE CURVES

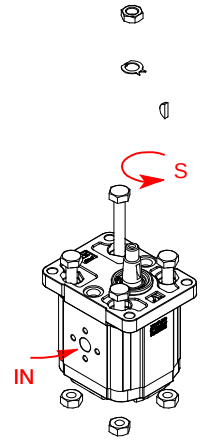
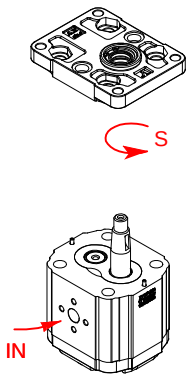
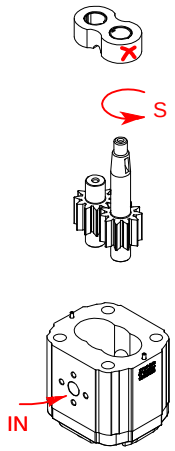
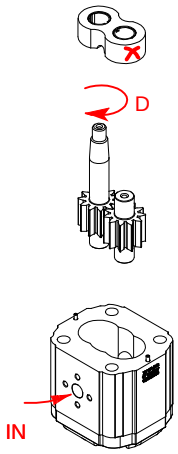
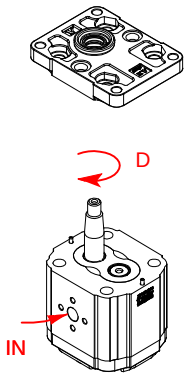
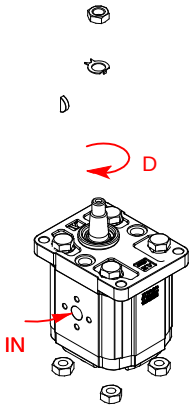


XV-2U MOTOR TORQUE



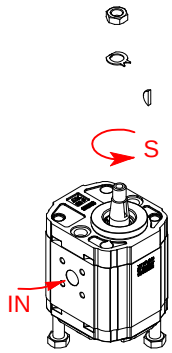
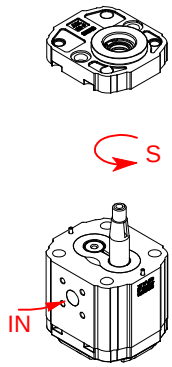
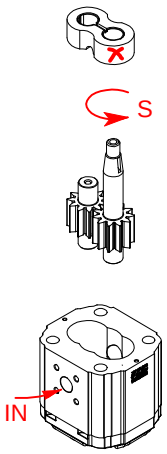
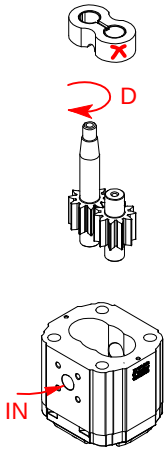
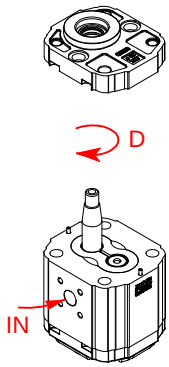
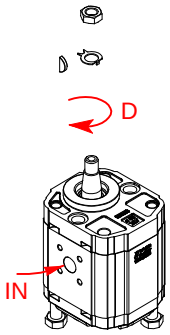
XV2-U with Flange ø36,5 (ref. XU- 201)

When changing the direction of rotation of the XV-2P motor, it is not necessary to change the flange, as the same one is used.
When disassembling and reassembling the motor, take special care to ensure that seals and back-up rings do not come out of place and that no foreign bodies, such as shavings or dirt in general, get inside the motor.

FLANGE ø36,5 (ref. XU- 201)					
					
Remove the key, nut and washer from the shaft. Loosen and remove the fastening screws.	Take off the flange.	Take out the gears and upper bush. Warning!! The bush **must <u>never</u>** be turned.	Invert the positions of the driven and driving shafts. Warning! The body and cover must not be turned. Use the marking on the body as your reference.	Fit the previously removed flange back in place taking care to clean the body-base contact surfaces.	Replace the screws and tighten the nuts with a torque of 54 Nm to 58.9 Nm. Check that the shaft turns on completing the operation.
Note: with this rotation change system, the **inlets** and **outlets** remain unchanged.					

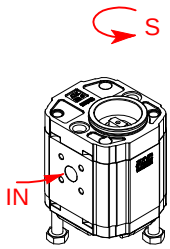
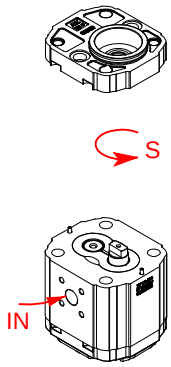
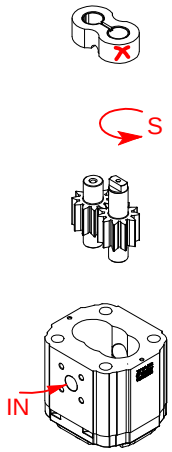
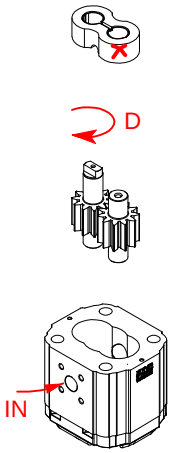
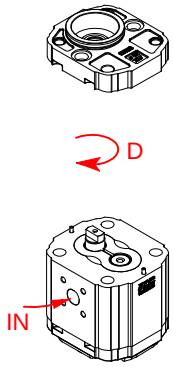
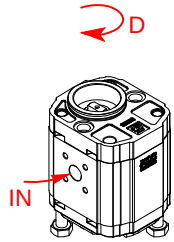
XV2-U with Flange ø50 BH-HY (ref. da XU- 210 a: XU- 213)

When changing the direction of rotation of the XV-2P motor, it is not necessary to change the flange, as the same one is used.
When disassembling and reassembling the motor, take special care to ensure that seals and back-up rings do not come out of place and that no foreign bodies, such as shavings or dirt in general, get inside the motor.

FLANGE ø50 BH-HY (ref. da XU- 210 a: XU- 213)					
					
Remove the key, nut and washer from the shaft. Loosen and remove the fastening screws.	Take off the flange.	Take out the gears and upper bush. Warning!! The bush **must never** be turned.	Invert the positions of the driven and driving shafts. Warning! The body and cover must not be turned. Use the marking on the body as your reference.	Fit the previously removed flange back in place taking care to clean the body-base contact surfaces.	Replace the screws and tighten the nuts with a torque of 54 Nm to 58.9Nm. Check that the shaft turns on completing the operation.
Note: with this rotation change system, the **inlets** and **outlets** remain unchanged.					

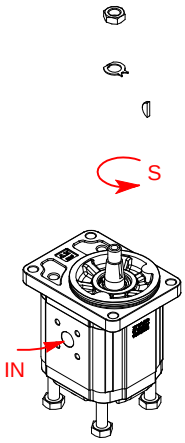
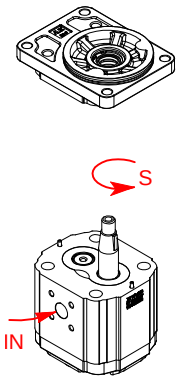
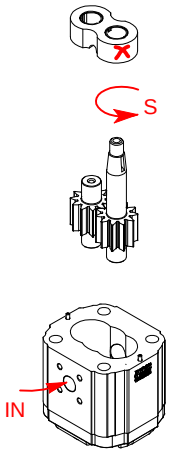
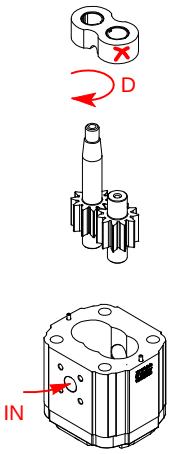
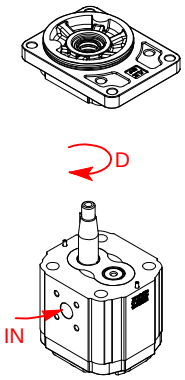
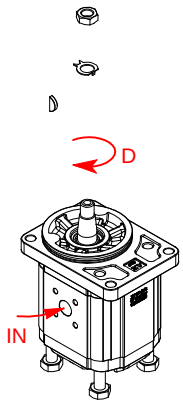
XV2-U **with Flange ø52 BH** (ref. XU- 216)

When changing the direction of rotation of the XV-2P motor, it is not necessary to change the flange, as the same one is used.
When disassembling and reassembling the motor, take special care to ensure that seals and back-up rings do not come out of place and that no foreign bodies, such as shavings or dirt in general, get inside the motor.

FLANGE ø52 BH (ref.XU- 216)					
					
Loosen and remove the fastening screws.	Take off the flange.	Take out the gears and upper bush. Warning!! The bush must never be turned.	Invert the positions of the driven and driving shafts. Warning! The body and cover must not be turned. Use the marking on the body as your reference.	Fit the previously removed flange back in place taking care to clean the body-base contact surfaces.	Replace the screws and tighten the nuts with a torque of 54 Nm to 58.9Nm. Check that the shaft turns on completing the operation.
Note: with this rotation change system, the **inlets** and **outlets** remain unchanged.					

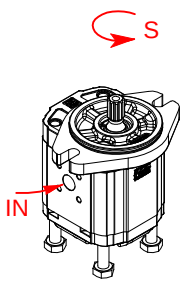
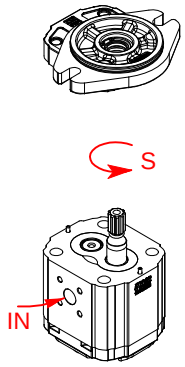
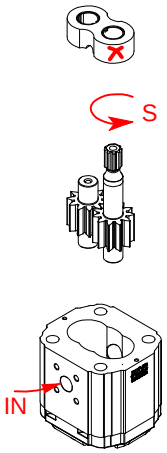
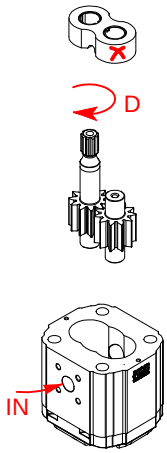
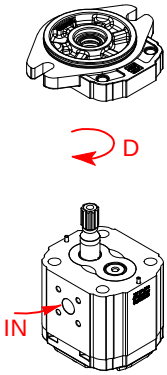
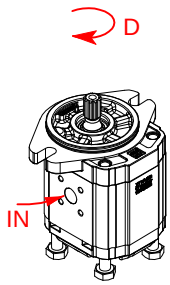
XV2-U with Flange ø80 (ref. XU- 217)

When changing the direction of rotation of the XV-2P motor, it is not necessary to change the flange, as the same one is used.
When disassembling and reassembling the motor, take special care to ensure that seals and back-up rings do not come out of place and that no foreign bodies, such as shavings or dirt in general, get inside the motor.

FLANGE ø80 (ref.XU- 217)					
					
Remove the key, nut and washer from the shaft. Loosen and remove the fastening screws.	Take off the flange.	Take out the gears and upper bush. Warning!! The bush **must <u>never</u>** be turned.	Invert the positions of the driven and driving shafts. Warning! The body and cover must not be turned. Use the marking on the body as your reference.	Fit the previously removed flange back in place taking care to clean the body-base contact surfaces.	Replace the screws and tighten the nuts with a torque of 54 Nm to 58.9 Nm. Check that the shaft turns on completing the operation.
Note: with this rotation change system, the **inlets** and **outlets** remain unchanged.					

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

When changing the direction of rotation of the XV-2P motor, it is not necessary to change the flange, as the same one is used.
When disassembling and reassembling the motor, take special care to ensure that seals and back-up rings do not come out of place and that no foreign bodies, such as shavings or dirt in general, get inside the motor.

FLANGE ø82,5 SAE-A *(ref. XU- 219)*					
					
Loosen and remove the fastening screws.	Take off the flange.	Take out the gears and upper bush. Warning!! The bush **must never** be turned.	Invert the positions of the driven and driving shafts. Warning! The body and cover must not be turned. Use the marking on the body as your reference.	Fit the previously removed flange back in place taking care to clean the body-base contact surfaces.	Replace the screws and tighten the nuts with a torque of 54 Nm to 58.9Nm. Check that the shaft turns on completing the operation.
Note: with this rotation change system, the **inlets** and **outlets** remain unchanged.					

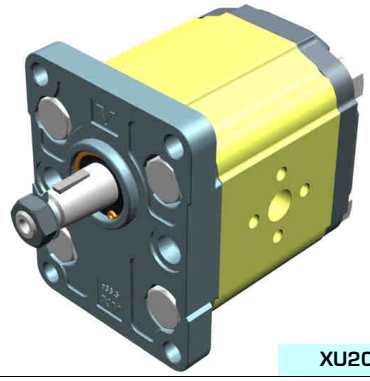
unidirectional motor - series XV

STANDARD EUROPEAN MOTOR
ø36.5 FLANGE - TAPER SHAFT

XV-2U

X	2	U	51	02	E	P	O	A

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



XU201

Technical data table

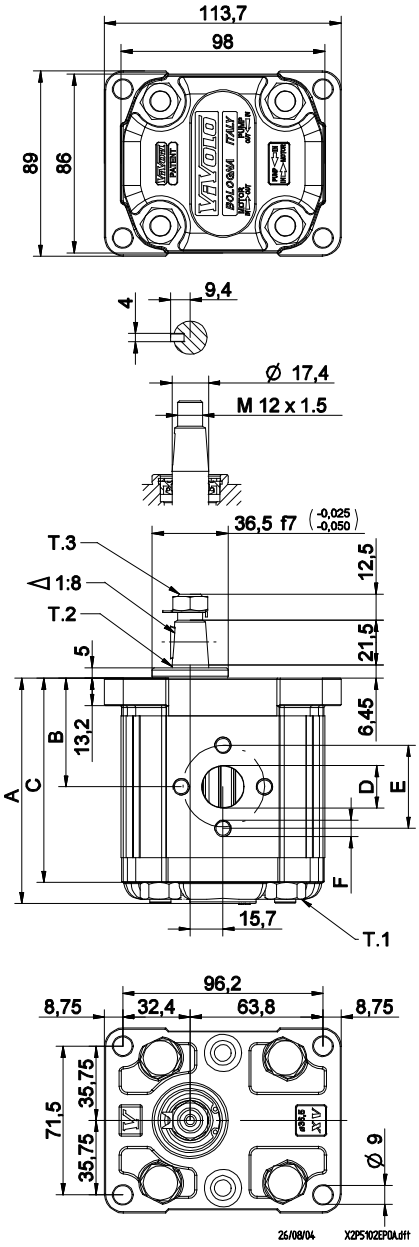
TYPE	Displacement	Max. Pressure		CODE	
	cm3/rev	P1 bar	P3 bar	Left rotation	Right rotation
XV-2U/04	4,20	260	300	X 2 U 41 01 E O O A	X 2 U 41 02 E O O A
XV-2U/06	6,00	260	300	X 2 U 43 01 E O O A	X 2 U 43 02 E O O A
XV-2U/09	8,40	260	300	X 2 U 45 01 E O O A	X 2 U 45 02 E O O A
XV-2U/11	10,80	260	300	X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



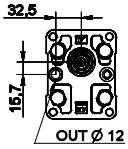
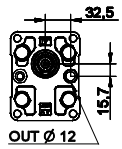
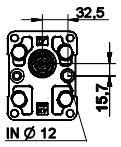
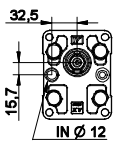
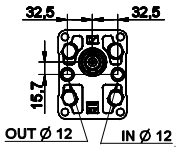
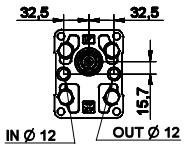
T.1 = 54÷58.9 [Nm] - screw tightening torque M10 T.3 = 40 [Nm] - torque wrench setting 19

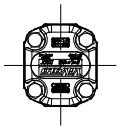
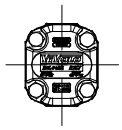
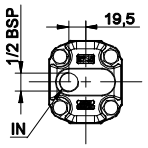
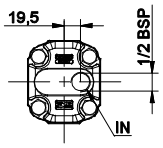
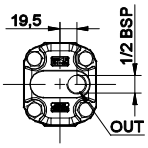
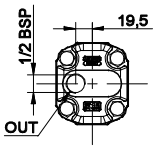
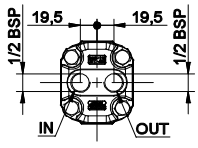
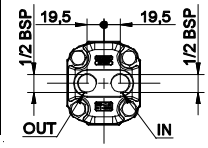
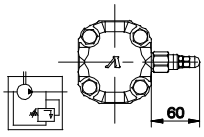
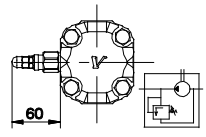
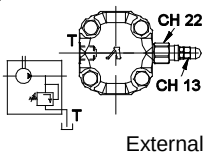
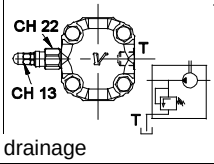
T.2 = 233.2 [Nm] - admissible shaft torque (N.B. When choosing a shaft, always check the admissible torque).

Table of variations

ø36.5 FLANGE

XV-2U

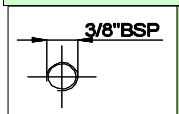
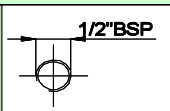
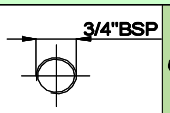
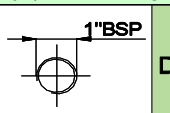
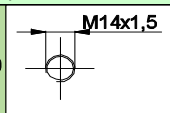
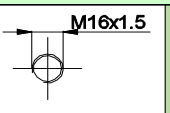
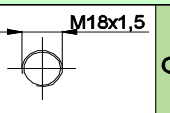
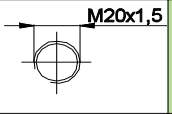
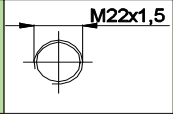
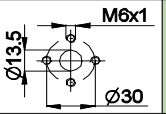
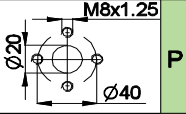
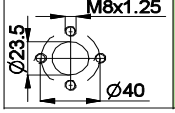
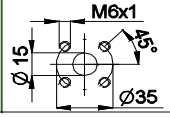
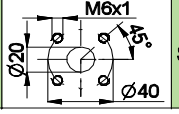
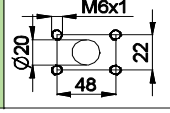
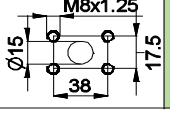
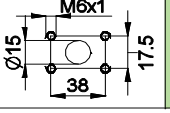
ø36.5 FLANGE				Shaft			
Left rotation		Right rotation					
	01		02	CI001 - Parallel T.2 = 44.1 [Nm]	A	CI002 - Parallel T.2 = 67.5 [Nm]	B
	03		04	CO001 - Tapered T.2 = 233.2 [Nm]	E	CO002 - Tapered T.2 = 233.2 [Nm]	F
	05		06	SCF02 - Splined T.2 = 86.1 [Nm]	G	SCF03 - Splined T.2 = 86.1 [Nm]	H
	07		08	SCF04 - 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-2U/04	41
XV-2U/06	43
XV-2U/09	45
XV-2U/11	47
XV-2U/14	49
XV-2U/17	51
XV-2U/19	53
XV-2U/22	55
XV-2U/26	57
XV-2U/30	59
XV-2U/34	61
XV-2U/40	63

Standard bodies					
Displacementcm3/rev	Standard threads				
04	O - O	S - R	B - B	L - M	Z - Z
06	O - O	S - R	B - B	L - M	Z - Z
09	O - O	S - R	B - B	L - M	Z - Z
11	O - O	S - R	B - B	L - M	Z - Z
14	P - O	S - R	C - B	L - M	Z - Z
17	P - O	S - R	C - B	L - M	Z - Z
19	P - O	S - R	C - B	L - M	Z - Z
22	P - O	S - R	C - B	L - M	Z - Z
26	Q - P	S - R	D - C	L - M	Z - Z
30	Q - P	S - S	D - C	L - M	Z - Z
34	Q - P	S - S	D - C	L - M	Z - Z
40	Q - P	S - S	D - C	L - M	Z - Z

Table showing standard flange and thread combinations available in stock

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

unidirectional motor - series XV

STANDARD EUROPEAN MOTOR
ø36.5 FLANGE - TAPER SHAFT

XV-2U

X	2	U	51	02	E	C	B	A

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

XU207

Technical data table

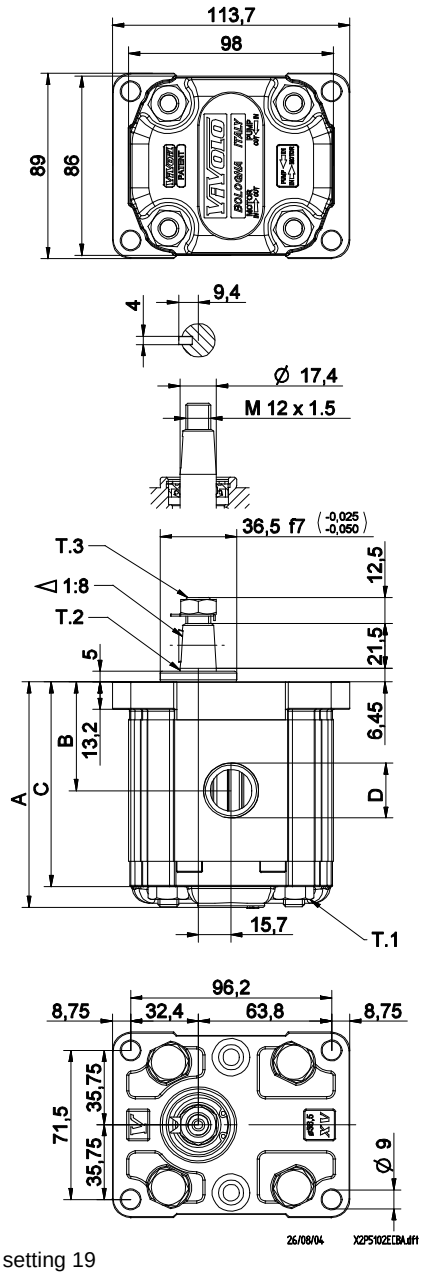
TYPE	Displacement	Max. Pressure		CODE	
	cm3/rev	P1 bar	P3 bar	Left rotation	Right rotation
XV-2U/04	4,20	260	300	X 2 U 41 01 E B B A	X 2 U 41 02 E B B A
XV-2U/06	6,00	260	300	X 2 U 43 01 E B B A	X 2 U 43 02 E B B A
XV-2U/09	8,40	260	300	X 2 U 45 01 E B B A	X 2 U 45 02 E B B A
XV-2U/11	10,80	260	300	X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



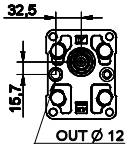
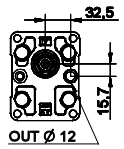
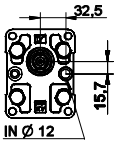
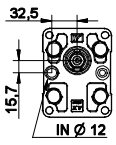
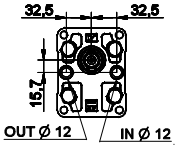
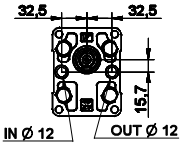
T.1 = 54÷58.9 [Nm] - screw tightening torque M10

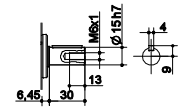
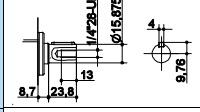
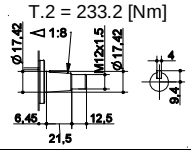
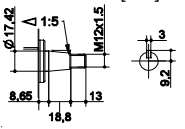
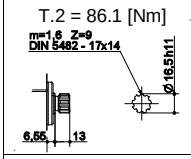
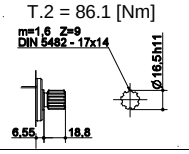
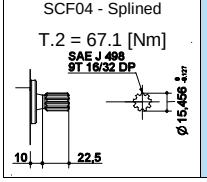
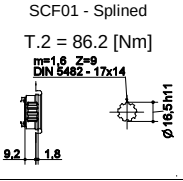
T.3 = 40 [Nm] - torque wrench setting 19

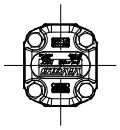
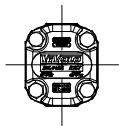
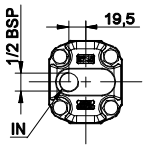
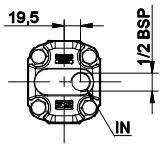
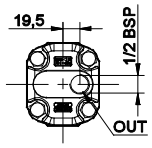
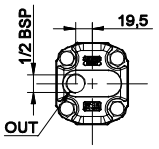
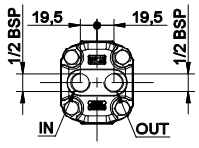
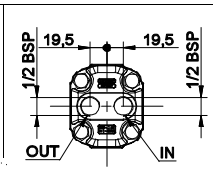
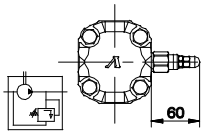
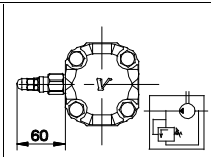
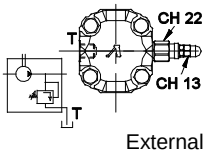
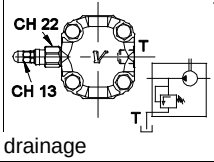
T.2 = 233.2 [Nm] - admissible shaft torque (N.B. When choosing a shaft, always check the admissible torque).

Table of variations

ø36.5 FLANGE

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

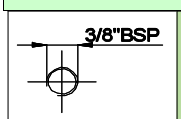
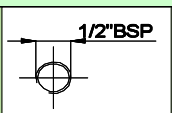
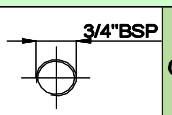
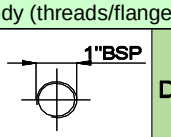
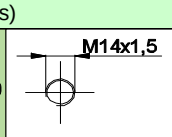
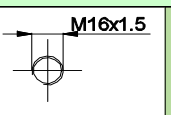
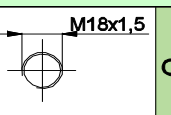
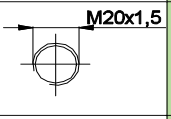
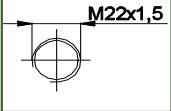
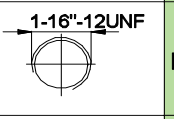
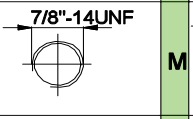
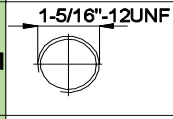
Shaft			
CI001 - Parallel T.2 = 44.1 [Nm]	A	CI002 - Parallel T.2 = 67.5 [Nm]	B
			
CO001 - Tapered T.2 = 233.2 [Nm]	E	CO002 - Tapered T.2 = 233.2 [Nm]	F
			
SCF02 - Splined T.2 = 86.1 [Nm]	G	SCF03 - Splined T.2 = 86.1 [Nm]	H
			
SCF04 - Splined T.2 = 67.1 [Nm]	I	SCF01 - Splined T.2 = 86.2 [Nm]	L
			

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

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

Standard bodies					
Displacementcm3/rev	Standard threads				
04	O - O	S - R	B - B	L - M	Z - Z
06	O - O	S - R	B - B	L - M	Z - Z
09	O - O	S - R	B - B	L - M	Z - Z
11	O - O	S - R	B - B	L - M	Z - Z
14	P - O	S - R	C - B	L - M	Z - Z
17	P - O	S - R	C - B	L - M	Z - Z
19	P - O	S - R	C - B	L - M	Z - Z
22	P - O	S - R	C - B	L - M	Z - Z
26	Q - P	S - R	D - C	L - M	Z - Z
30	Q - P	S - S	D - C	L - M	Z - Z
34	Q - P	S - S	D - C	L - M	Z - Z
40	Q - P	S - S	D - C	L - M	Z - Z

Table showing standard flange and thread combinations available in stock

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

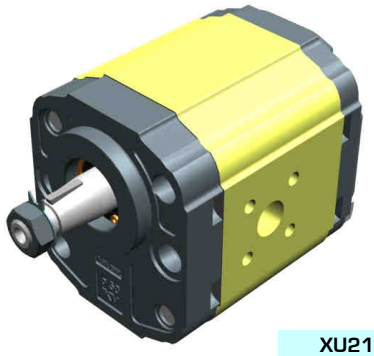
unidirectional motor - series XV

BH TYPE MOTOR
ø50 BODY-SHAPED FLANGE - TAPER SHAFT

XV-2U

X	2	U	51	12	F	S	R	A

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



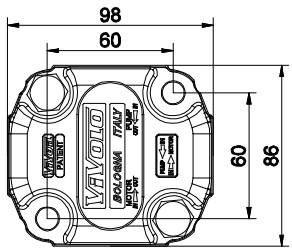
XU210

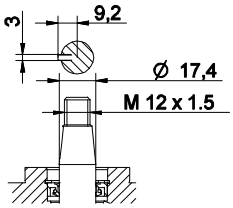
Technical data table

TYPE	Displacement	Max. Pressure		CODE															
	cm3/rev	P1 bar	P3 bar	Left rotation								Right rotation							
XV-2U/04	4,20	260	300	X	2	U	41	11	F	S	R	A	X	2	U	41	12	F	S	R	A
XV-2U/06	6,00	260	300	X	2	U	43	11	F	S	R	A	X	2	U	43	12	F	S	R	A
XV-2U/09	8,40	260	300	X	2	U	45	11	F	S	R	A	X	2	U	45	12	F	S	R	A
XV-2U/11	10,80	260	300	X	2	U	47	11	F	S	R	A	X	2	U	47	12	F	S	R	A
XV-2U/14	14,40	250	290	X	2	U	49	11	F	S	R	A	X	2	U	49	12	F	S	R	A
XV-2U/17	16,80	230	270	X	2	U	51	11	F	S	R	A	X	2	U	51	12	F	S	R	A
XV-2U/19	19,20	210	250	X	2	U	53	11	F	S	R	A	X	2	U	53	12	F	S	R	A
XV-2U/22	22,80	200	240	X	2	U	55	11	F	S	R	A	X	2	U	55	12	F	S	R	A
XV-2U/26	26,20	170	210	X	2	U	57	11	F	S	R	A	X	2	U	57	12	F	S	R	A
XV-2U/30	30,00	160	200	X	2	U	59	11	F	S	S	A	X	2	U	59	12	F	S	S	A
XV-2U/34	34,20	150	190	X	2	U	61	11	F	S	S	A	X	2	U	61	12	F	S	S	A
XV-2U/40	39,60	140	180	X	2	U	63	11	F	S	S	A	X	2	U	63	12	F	S	S	A

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

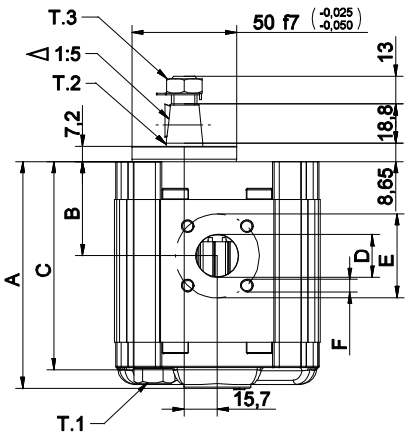
For heavy-duty applications, it is recommended to check the admissible torque of the shaft

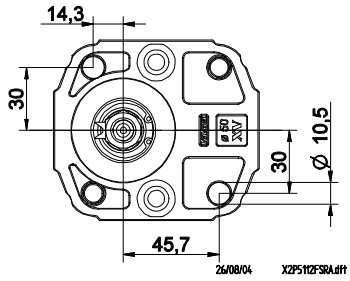




Dimensions table

TYPE	Weight	A	B	C	D	E	F	D	E	F
	kg	mm	mm	mm	IN			OUT		
XV-2U/04	2,100	87,2	38,6	77,2	ø15	35	M6x1	ø20	40	M6x1
XV-2U/06	2,200	90,2	38,6	80,2	ø15	35	M6x1	ø20	40	M6x2
XV-2U/09	2,300	94,2	40,6	84,2	ø15	35	M6x1	ø20	40	M6x3
XV-2U/11	2,400	98,2	45,0	88,2	ø15	35	M6x1	ø20	40	M6x4
XV-2U/14	2,600	104,2	45,0	94,2	ø15	35	M6x1	ø20	40	M6x5
XV-2U/17	2,700	108,2	45,0	98,2	ø15	35	M6x1	ø20	40	M6x6
XV-2U/19	2,800	112,2	45,0	102,2	ø15	35	M6x1	ø20	40	M6x7
XV-2U/22	2,950	118,2	52,5	108,2	ø15	35	M6x1	ø20	40	M6x8
XV-2U/26	3,050	122,2	52,5	112,2	ø15	35	M6x1	ø20	40	M6x9
XV-2U/30	3,300	130,2	60,7	120,2	ø20	40	M6x1	ø20	40	M6x10
XV-2U/34	3,500	137,2	60,7	127,2	ø20	40	M6x1	ø20	40	M6x11
XV-2U/40	3,700	146,2	60,7	136,2	ø20	40	M6x1	ø20	40	M6x12





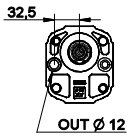
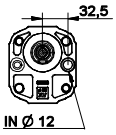
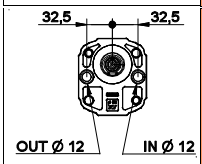
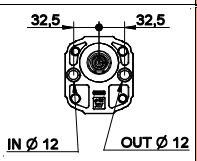
T.1 = 54÷58.9 [Nm] - screw tightening torque M10 T.3 = 40 [Nm] - torque wrench setting 19

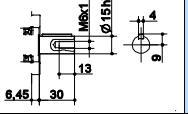
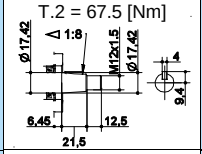
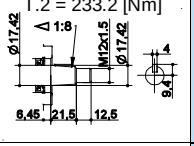
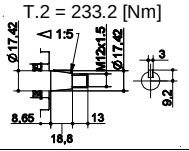
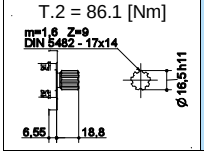
T.2 = 233.2 [Nm] - admissible shaft torque (N.B. When choosing a shaft, always check the admissible torque).

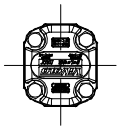
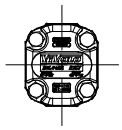
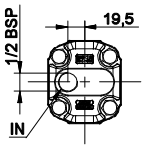
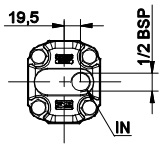
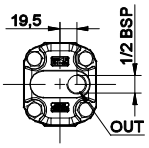
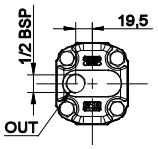
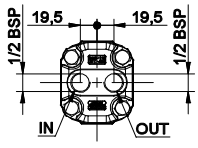
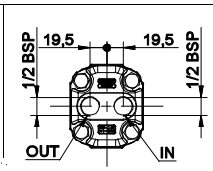
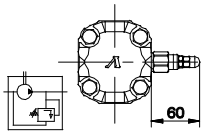
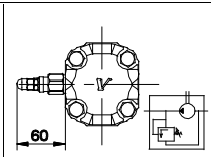
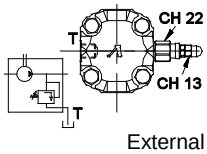
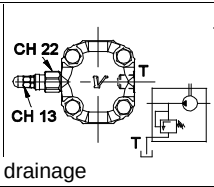
Table of variations

ø50 "BH" Body-Shaped FLANGE

XV-2U

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

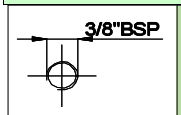
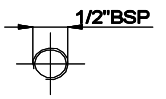
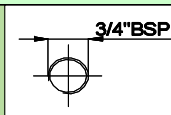
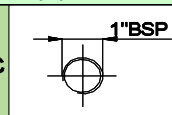
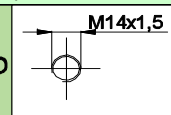
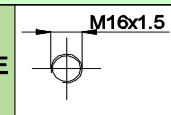
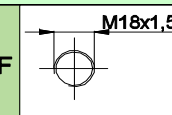
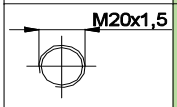
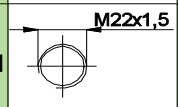
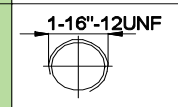
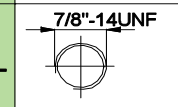
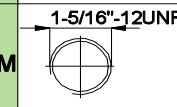
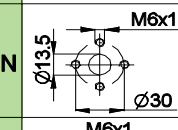
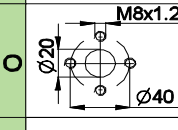
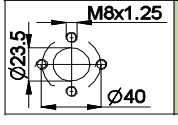
Shaft			
CI001 - Parallel T.2 = 44.1 [Nm]	A	CI002 - Parallel T.2 = 67.5 [Nm]	B
			
CO001 - Tapered T.2 = 233.2 [Nm]	E	CO002 - Tapered T.2 = 233.2 [Nm]	F
			
SCF03 - Splined T.2 = 86.1 [Nm]	H		
			

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

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

Standard bodies					
Displacementcm3/rev	Standard threads				
04	O - O	S - R	B - B	L - M	Z - Z
06	O - O	S - R	B - B	L - M	Z - Z
09	O - O	S - R	B - B	L - M	Z - Z
11	O - O	S - R	B - B	L - M	Z - Z
14	P - O	S - R	C - B	L - M	Z - Z
17	P - O	S - R	C - B	L - M	Z - Z
19	P - O	S - R	C - B	L - M	Z - Z
22	P - O	S - R	C - B	L - M	Z - Z
26	Q - P	S - R	D - C	L - M	Z - Z
30	Q - P	S - S	D - C	L - M	Z - Z
34	Q - P	S - S	D - C	L - M	Z - Z
40	Q - P	S - S	D - C	L - M	Z - Z

Table showing standard flange and thread combinations available in stock

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

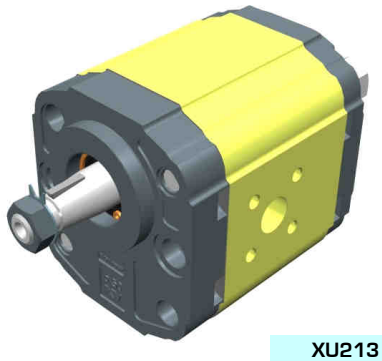
unidirectional motor - series XV

HY TYPE MOTOR
ø50 BODY-SHAPED FLANGE - TAPER SHAFT

XV-2U

X	2	U	51	22	F	S	R	A

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



XU213

Technical data table

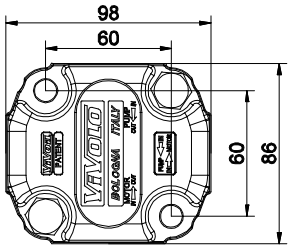
TYPE	Displacement	Max. Pressure		CODE															
	cm3/rev	P1 bar	P3 bar	Left rotation								Right rotation							
XV-2U/04	4,20	260	300	X	2	U	41	21	F	S	R	A	X	2	U	41	22	F	S	R	A
XV-2U/06	6,00	260	300	X	2	U	43	21	F	S	R	A	X	2	U	43	22	F	S	R	A
XV-2U/09	8,40	260	300	X	2	U	45	21	F	S	R	A	X	2	U	45	22	F	S	R	A
XV-2U/11	10,80	260	300	X	2	U	47	21	F	S	R	A	X	2	U	47	22	F	S	R	A
XV-2U/14	14,40	250	290	X	2	U	49	21	F	S	R	A	X	2	U	49	22	F	S	R	A
XV-2U/17	16,80	230	270	X	2	U	51	21	F	S	R	A	X	2	U	51	22	F	S	R	A
XV-2U/19	19,20	210	250	X	2	U	53	21	F	S	R	A	X	2	U	53	22	F	S	R	A
XV-2U/22	22,80	200	240	X	2	U	55	21	F	S	R	A	X	2	U	55	22	F	S	R	A
XV-2U/26	26,20	170	210	X	2	U	57	21	F	S	R	A	X	2	U	57	22	F	S	R	A
XV-2U/30	30,00	160	200	X	2	U	59	21	F	S	S	A	X	2	U	59	22	F	S	S	A
XV-2U/34	34,20	150	190	X	2	U	61	21	F	S	S	A	X	2	U	61	22	F	S	S	A
XV-2U/40	39,60	140	180	X	2	U	63	21	F	S	S	A	X	2	U	63	22	F	S	S	A

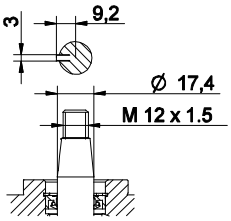
P1) Max. working pressure - P3) Max. peak pressure

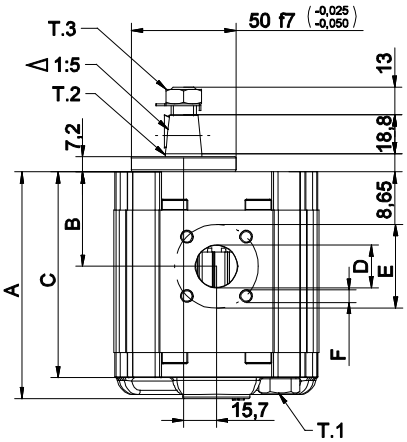
For heavy-duty applications, it is recommended to check the admissible torque of the shaft

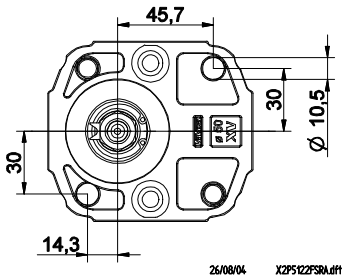
Dimensions table

TYPE	Weight	A	B	C	D	E	F	D	E	F
	kg	mm	mm	mm	IN			OUT		
XV-2U/04	2,100	87,2	38,6	77,2	ø15	35	M6x1	ø20	40	M6x1
XV-2U/06	2,200	90,2	38,6	80,2	ø15	35	M6x1	ø20	40	M6x2
XV-2U/09	2,300	94,2	40,6	84,2	ø15	35	M6x1	ø20	40	M6x3
XV-2U/11	2,400	98,2	45,0	88,2	ø15	35	M6x1	ø20	40	M6x4
XV-2U/14	2,600	104,2	45,0	94,2	ø15	35	M6x1	ø20	40	M6x5
XV-2U/17	2,700	108,2	45,0	98,2	ø15	35	M6x1	ø20	40	M6x6
XV-2U/19	2,800	112,2	45,0	102,2	ø15	35	M6x1	ø20	40	M6x7
XV-2U/22	2,950	118,2	52,5	108,2	ø15	35	M6x1	ø20	40	M6x8
XV-2U/26	3,050	122,2	52,5	112,2	ø15	35	M6x1	ø20	40	M6x9
XV-2U/30	3,300	130,2	60,7	120,2	ø20	40	M6x1	ø20	40	M6x10
XV-2U/34	3,500	137,2	60,7	127,2	ø20	40	M6x1	ø20	40	M6x11
XV-2U/40	3,700	146,2	60,7	136,2	ø20	40	M6x1	ø20	40	M6x12



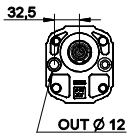
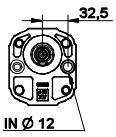
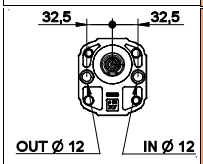
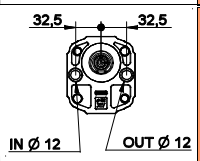


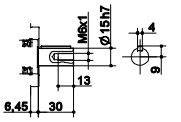
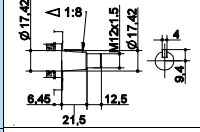
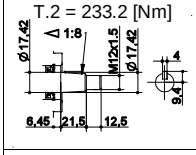
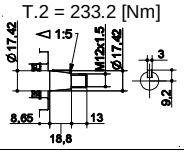
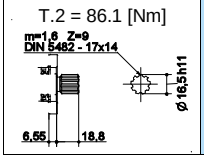


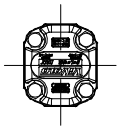
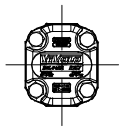
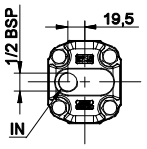
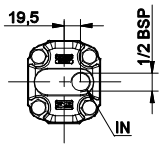
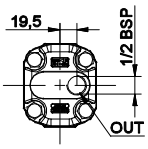
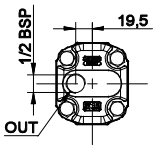
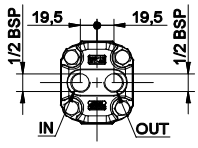
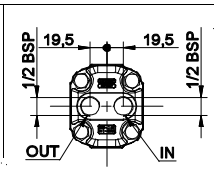
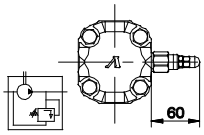
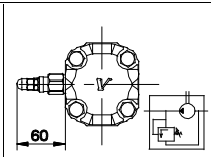
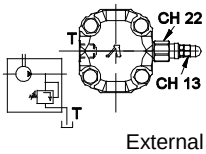
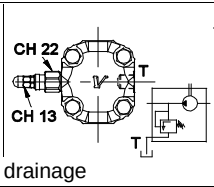


T.1 = 54÷58.9 [Nm] - screw tightening torque M10 T.3 = 40 [Nm] - torque wrench setting 19

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

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

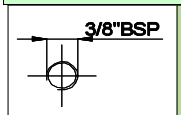
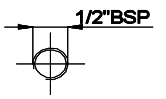
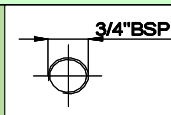
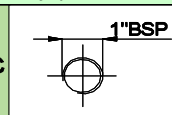
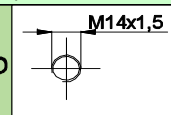
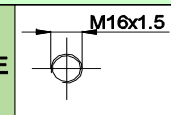
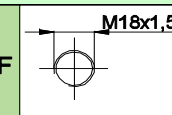
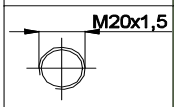
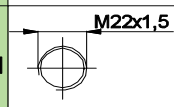
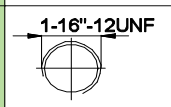
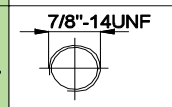
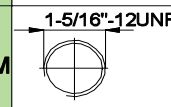
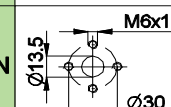
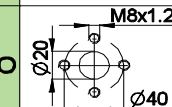
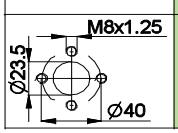
Shaft			
CI001 - Parallel T.2 = 44.1 [Nm]	A	CI002 - Parallel T.2 = 67.5 [Nm]	B
			
CO001 - Tapered T.2 = 233.2 [Nm]	E	CO002 - Tapered T.2 = 233.2 [Nm]	F
			
SCF03 - Splined T.2 = 86.1 [Nm]	H		
			

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

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

Standard bodies					
Displacementcm3/rev	Standard threads				
04	O - O	S - R	B - B	L - M	Z - Z
06	O - O	S - R	B - B	L - M	Z - Z
09	O - O	S - R	B - B	L - M	Z - Z
11	O - O	S - R	B - B	L - M	Z - Z
14	P - O	S - R	C - B	L - M	Z - Z
17	P - O	S - R	C - B	L - M	Z - Z
19	P - O	S - R	C - B	L - M	Z - Z
22	P - O	S - R	C - B	L - M	Z - Z
26	Q - P	S - R	D - C	L - M	Z - Z
30	Q - P	S - S	D - C	L - M	Z - Z
34	Q - P	S - S	D - C	L - M	Z - Z
40	Q - P	S - S	D - C	L - M	Z - Z

Table showing standard flange and thread combinations available in stock

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

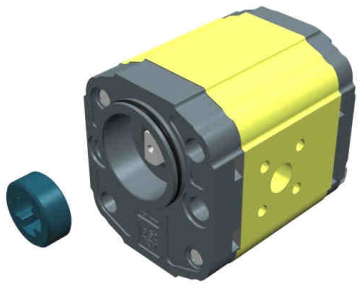
unidirectional motor - series XV

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

XV-2U

X	2	U	51	32	C	S	R	A

Series	X	series XV
Group	2	group 2
Category	U	unidirectional motor
Displacement	51	17
Flange	32	Ø52 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



XU216

Technical data table

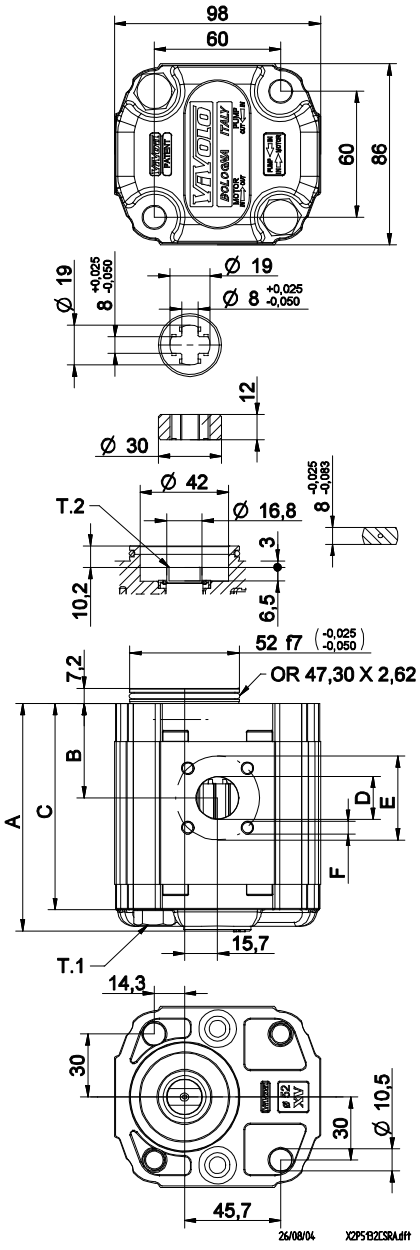
TYPE	Displacement	Max. Pressure		CODE	
	cm3/rev	P1 bar	P3 bar	Left rotation	Right rotation
XV-2U/04	4,20	260	300	X 2 U 41 31 C S R A	X 2 U 41 32 C S R A
XV-2U/06	6,00	260	300	X 2 U 43 31 C S R A	X 2 U 43 32 C S R A
XV-2U/09	8,40	260	300	X 2 U 45 31 C S R A	X 2 U 45 32 C S R A
XV-2U/11	10,80	260	300	X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



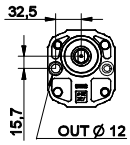
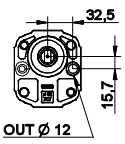
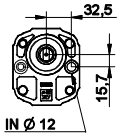
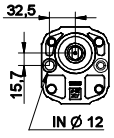
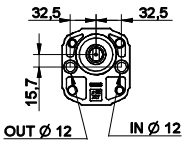
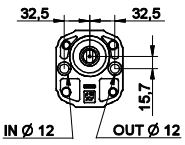
T.1 = 54÷58.9 [Nm] - screw tightening torque M10

T.2 = 60.5 [Nm] - admissible shaft torque (N.B. When choosing a shaft, always check the admissible torque).

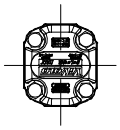
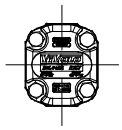
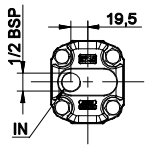
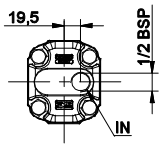
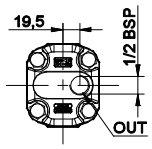
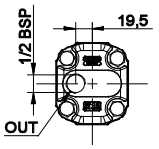
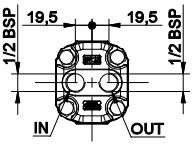
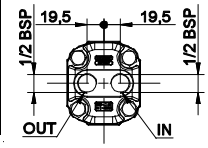
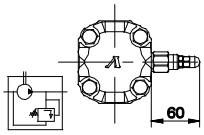
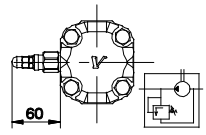
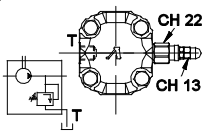
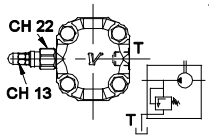
Table of variations

Standard German ø52 "BH" FLANGE

XV-2U

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

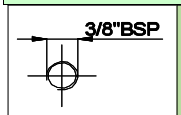
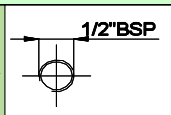
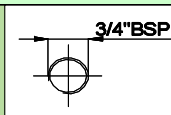
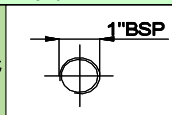
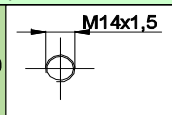
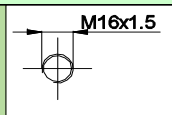
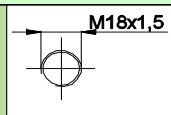
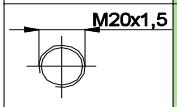
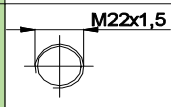
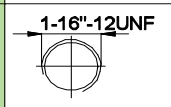
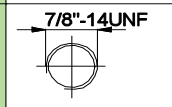
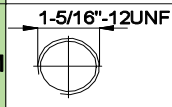
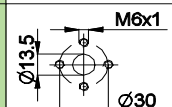
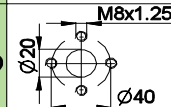
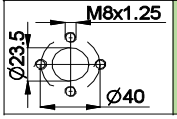
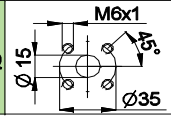
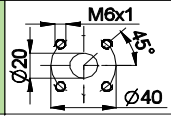
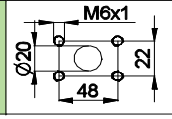
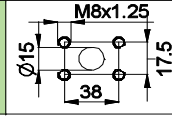
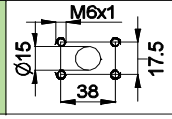
Shaft			
CF001 - Milled shank T.2 = 60.5 [Nm]	C	SCF05 - Splined T.2 = 86.2 [Nm]	K
SCF01 - Splined T.2 = 86.2 [Nm]	L		

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

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

Standard bodies					
Displacementcm3/rev	Standard threads				
04	O - O	S - R	B - B	L - M	Z - Z
06	O - O	S - R	B - B	L - M	Z - Z
09	O - O	S - R	B - B	L - M	Z - Z
11	O - O	S - R	B - B	L - M	Z - Z
14	P - O	S - R	C - B	L - M	Z - Z
17	P - O	S - R	C - B	L - M	Z - Z
19	P - O	S - R	C - B	L - M	Z - Z
22	P - O	S - R	C - B	L - M	Z - Z
26	Q - P	S - R	D - C	L - M	Z - Z
30	Q - P	S - S	D - C	L - M	Z - Z
34	Q - P	S - S	D - C	L - M	Z - Z
40	Q - P	S - S	D - C	L - M	Z - Z

Table showing standard flange and thread combinations available in stock

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

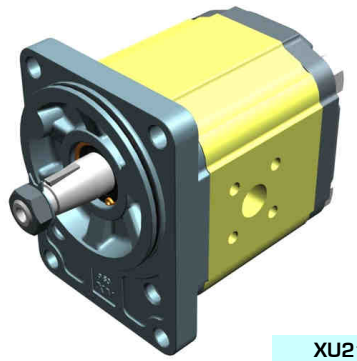
unidirectional motor - series XV

STANDARD GERMAN MOTOR
ø80 FLANGE - TAPER SHAFT

XV-2U

X	2	U	51	42	F	S	R	A

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



XU217

Technical data table

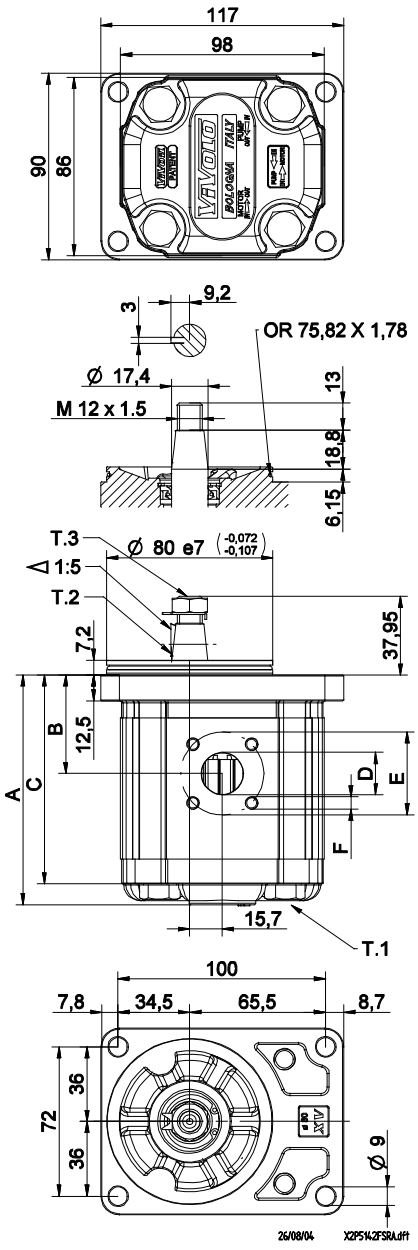
TYPE	Displacement	Max. Pressure		CODE															
	cm3/rev	P1 bar	P3 bar	Left rotation								Right rotation							
XV-2U/04	4,20	260	300	X	2	U	41	41	F	S	R	A	X	2	U	41	42	F	S	R	A
XV-2U/06	6,00	260	300	X	2	U	43	41	F	S	R	A	X	2	U	43	42	F	S	R	A
XV-2U/09	8,40	260	300	X	2	U	45	41	F	S	R	A	X	2	U	45	42	F	S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



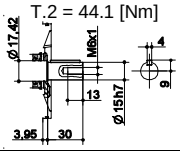
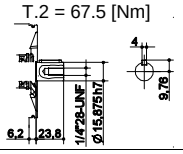
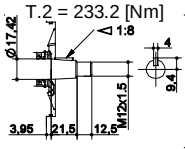
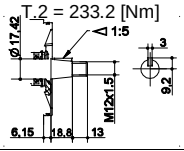
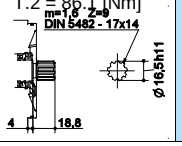
T.1 = 54÷58.9 [Nm] - screw tightening torque M10 T.3 = 40 [Nm] - torque wrench setting 19

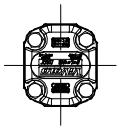
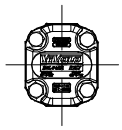
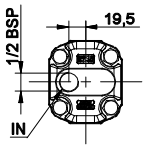
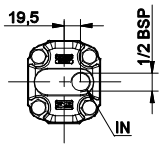
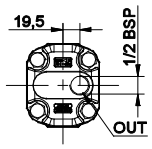
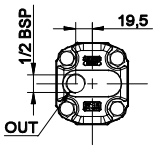
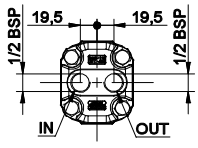
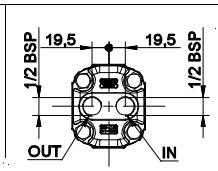
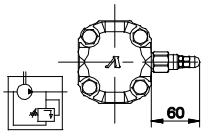
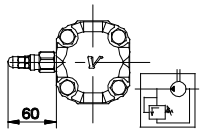
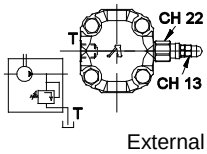
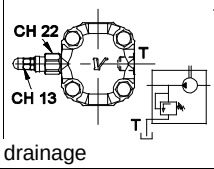
T.2 = 233.2 [Nm] - admissible shaft torque (N.B. When choosing a shaft, always check the admissible torque).

Table of variations

ø80 FLANGE

ø80 FLANGE			
Left rotation		Right rotation	
	41		42

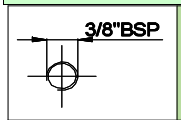
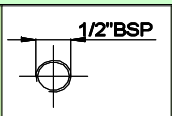
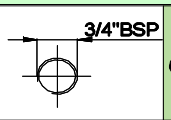
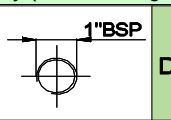
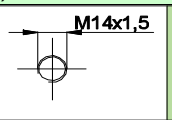
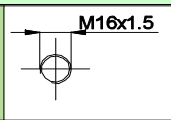
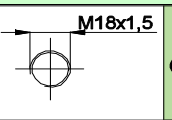
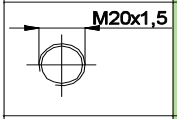
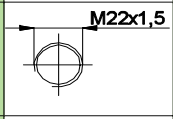
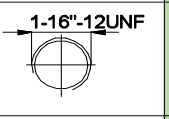
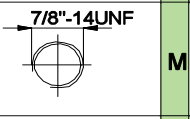
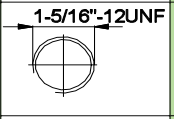
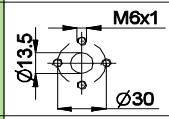
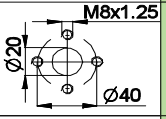
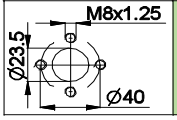
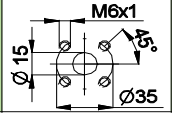
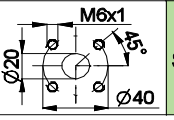
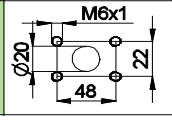
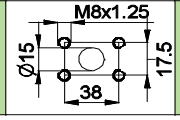
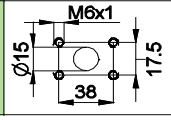
Shaft			
CI001 - Parallel T.2 = 44.1 [Nm]	A	CI002 - Parallel T.2 = 67.5 [Nm]	B
			
CO001 - Tapered T.2 = 233.2 [Nm]	E	CO002 - Tapered T.2 = 233.2 [Nm]	F
			
SCF03 - Splined T.2 = 86.1 [Nm]	H		
			

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

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

Standard bodies					
Displacementcm3/rev	Standard threads				
04	O - O	S - R	B - B	L - M	Z - Z
06	O - O	S - R	B - B	L - M	Z - Z
09	O - O	S - R	B - B	L - M	Z - Z
11	O - O	S - R	B - B	L - M	Z - Z
14	P - O	S - R	C - B	L - M	Z - Z
17	P - O	S - R	C - B	L - M	Z - Z
19	P - O	S - R	C - B	L - M	Z - Z
22	P - O	S - R	C - B	L - M	Z - Z
26	Q - P	S - R	D - C	L - M	Z - Z
30	Q - P	S - S	D - C	L - M	Z - Z
34	Q - P	S - S	D - C	L - M	Z - Z
40	Q - P	S - S	D - C	L - M	Z - Z

Table showing standard flange and thread combinations available in stock

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

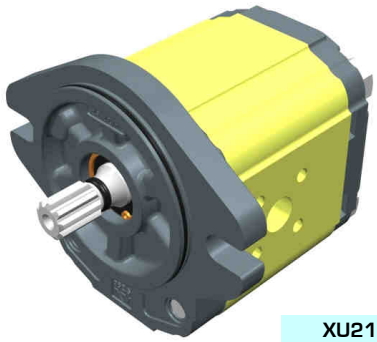
unidirectional motor - series XV

SAE A TYPE MOTOR
ø82.5 FLANGE - SPLINED SHAFT

XV-2U

X	2	U	51	52	I	S	R	A

Series		X	series XV
Group		2	group 2
Category		U	unidirectional motor
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



XU219

Technical data table

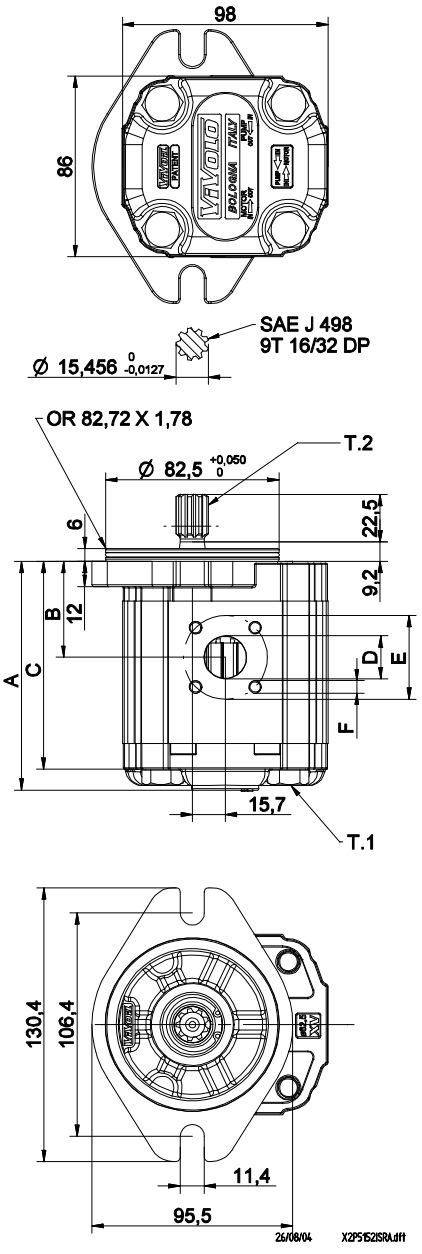
TYPE	Displacement	Max. Pressure		CODE															
	cm3/rev	P1 bar	P3 bar	Left rotation								Right rotation							
XV-2U/04	4,20	260	300	X	2	U	41	51	I	S	R	A	X	2	U	41	52	I	S	R	A
XV-2U/06	6,00	260	300	X	2	U	43	51	I	S	R	A	X	2	U	43	52	I	S	R	A
XV-2U/09	8,40	260	300	X	2	U	45	51	I	S	R	A	X	2	U	45	52	I	S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



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).

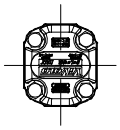
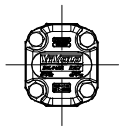
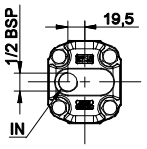
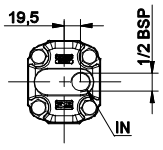
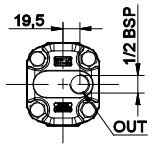
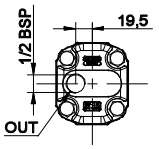
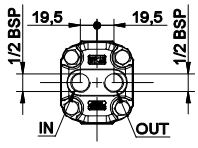
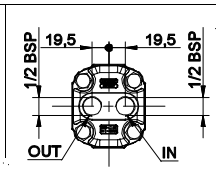
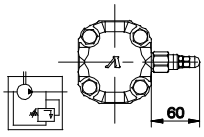
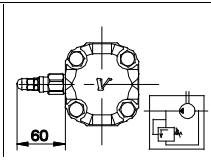
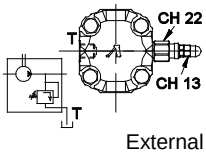
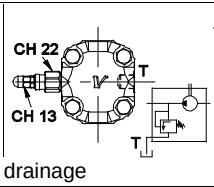
Table of variations

ø82.5 FLANGE "SAE A"

XV-2U

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

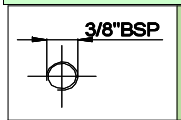
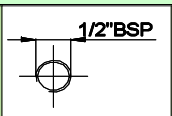
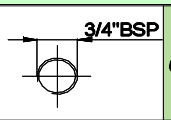
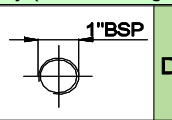
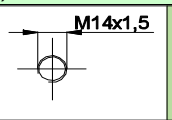
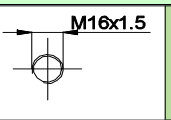
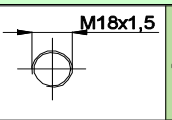
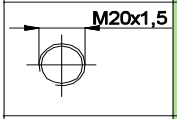
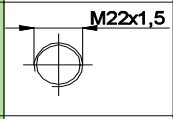
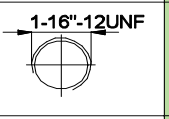
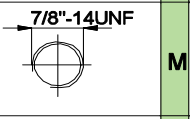
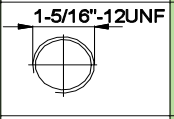
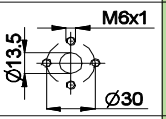
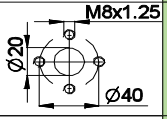
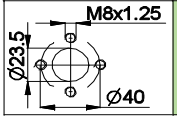
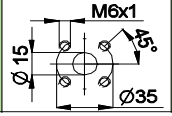
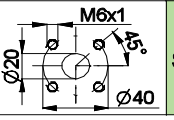
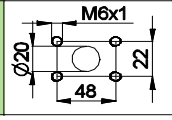
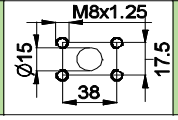
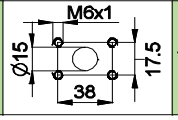
Shaft			
CI001 - Parallel T.2 = 44.1 [Nm]	A	CI002 - Parallel T.2 = 67.5 [Nm]	B
CO001 - Tapered T.2 = 233.2 [Nm]	E	CO002 - Tapered T.2 = 233.2 [Nm]	F
SCF04 - Splined T.2 = 67.1 [Nm]	I		

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

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

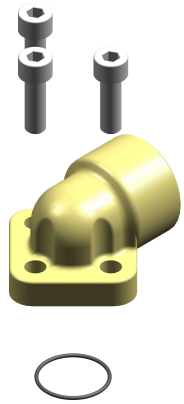
Standard bodies					
Displacementcm3/rev	Standard threads				
04	O - O	S - R	B - B	L - M	Z - Z
06	O - O	S - R	B - B	L - M	Z - Z
09	O - O	S - R	B - B	L - M	Z - Z
11	O - O	S - R	B - B	L - M	Z - Z
14	P - O	S - R	C - B	L - M	Z - Z
17	P - O	S - R	C - B	L - M	Z - Z
19	P - O	S - R	C - B	L - M	Z - Z
22	P - O	S - R	C - B	L - M	Z - Z
26	Q - P	S - R	D - C	L - M	Z - Z
30	Q - P	S - S	D - C	L - M	Z - Z
34	Q - P	S - S	D - C	L - M	Z - Z
40	Q - P	S - S	D - C	L - M	Z - Z

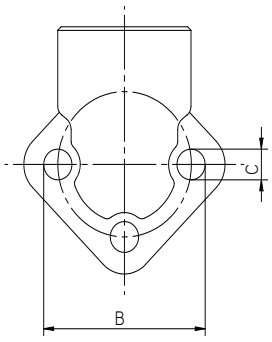
Table showing standard flange and thread combinations available in stock

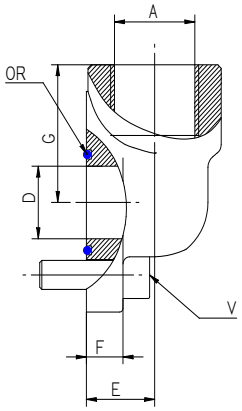
Body (threads/flanges)														
 3/8"BSP	A	 1/2"BSP	B	 3/4"BSP	C	 1"BSP	D	 M14x1,5	E	 M16x1.5	F	 M18x1,5	G
 M20x1,5	H	 M22x1,5	I	 1-16"-12UNF	L	 7/8"-14UNF	M	 1-5/16"-12UNF	N	 M6x1 Ø13,5 Ø30	O	 M8x1.25 Ø20 Ø40	P
 M8x1.25 Ø23,5 Ø40	Q	 M6x1 45° Ø15 Ø35	R	 M6x1 45° Ø20 Ø40	S	 M6x1 Ø20 22 48	T	 M8x1.25 Ø15 17,5 38	U	 M6x1 Ø15 17,5 38	V	Gehäuse Geschlossen	Z

90° STEEL ELBOWS

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

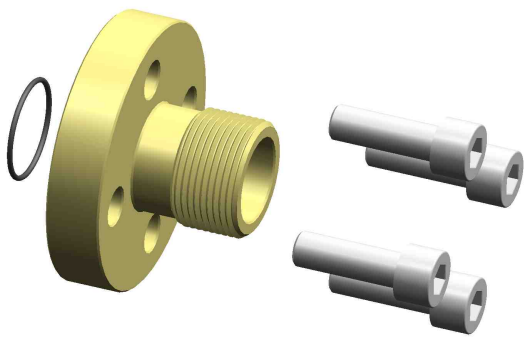


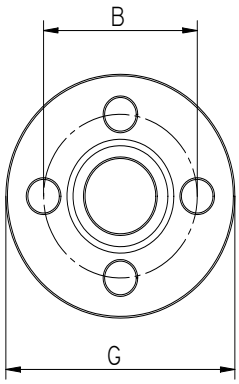


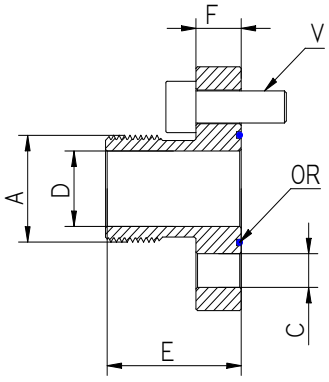


STRAIGHT STEEL UNIONS

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

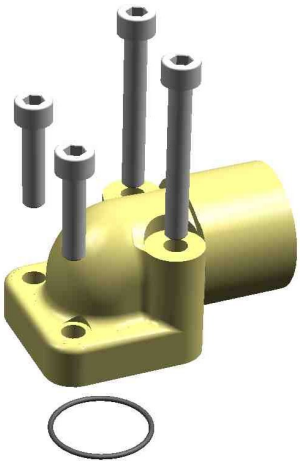


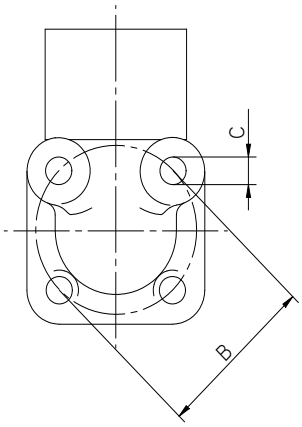


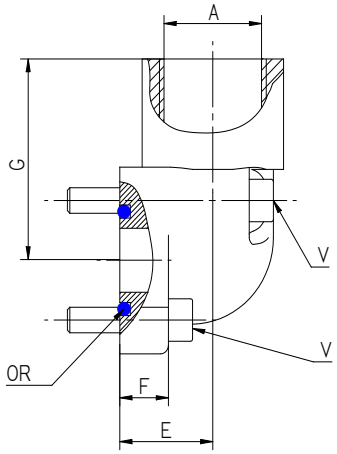


SQUARED STEEL ELBOWS

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







STRAIGHT STEEL UNIONS

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