

Part number:

HYDROMA

HYDRAULICKÉ SYSTÉMY

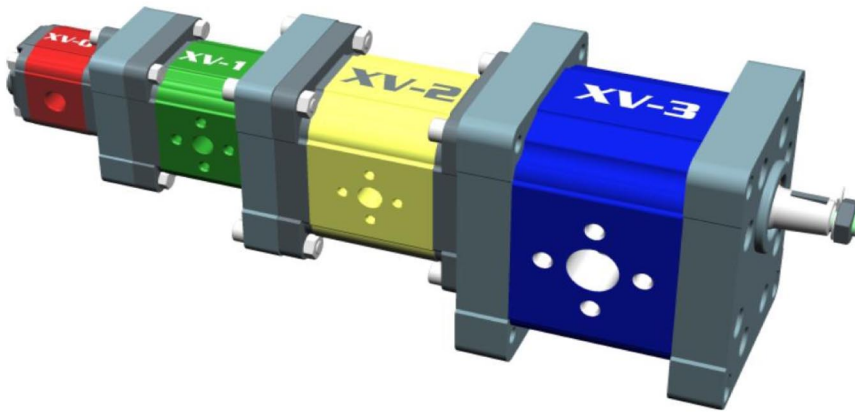
**HIDROMA
SISTEMS**

UKŁADY HYDRAULICZNE

HYDROMA

ГИДРАВЛИЧЕСКИЕ СИСТЕМЫ

Symbols of Vivoil Oleodinamica Vivolo products



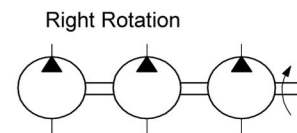
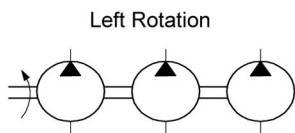
XV-0P	Unidirectional Pump	
XV-1P	Left Rotation	Right Rotation
XV-2P		
XV-3P		

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

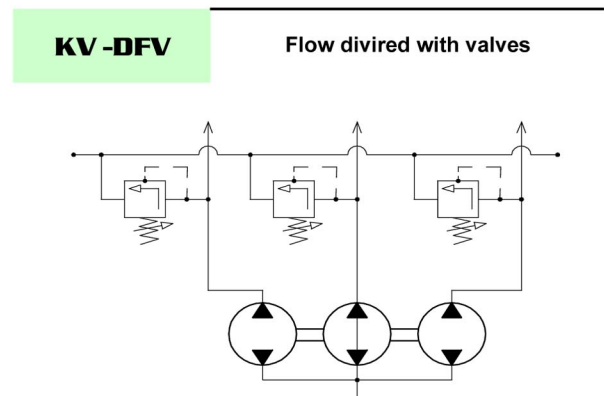
XV-0R	Reversible Pump	
XV-1R	External drainage	Internal drainage
XV-2R		
XV-3R		

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



KV-DF	Flow divider



KV-DF+M	Flow divider with motor

Summary: Displacements - Torque - Power - Pressures - Speeds

	TYPE	Displacement	Torque	Power	Max Inlet Pressure	Max Drain Pressure	Min Starting Pressure	Min Speed	Max Speed
			1000 rev/min	100 bar					
XV-0M	XV-0M/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-0M/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-0M/0.76	0.75 cm ³ /rev	1,01 Nm	0,11 KW	280 bar	1 bar	25 bar	700 rev/min	9000 rev/min
	XV-0M/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-0M/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-0M/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-0M/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-1M	XV-1M/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-1M/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-1M/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-1M/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-1M/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-1M/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-1M/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-1M/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-1M/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-1M/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-1M/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-1M/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-1M/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-2M	XV-2M/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-2M/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-2M/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-2M/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-2M/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-2M/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-2M/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-2M/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-2M/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-2M/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-2M/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-2M/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-3M	XV-3M/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-3M/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-3M/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-3M/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-3M/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-3M/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-3M/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-3M/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-3M/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-3M/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-3M/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-3M/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-3M/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-3M/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-3M/90	86.87 cm ³ /rev	117,52 Nm	12,31 KW	160 bar	6 bar	10 bar	700 rev/min	2300 rev/min	

General technical data

Type of fluid to be used	Mineral-based hydraulic oil HLP HV (D IN 51524)
Minimum operating viscosity	10 mm ² /s
Maximum operating viscosity	100 mm ² /s
Maximum admissible viscosity at start-up	1500 mm ² /s
Recommended viscosity	20 mm ² /s - 100 mm ² /s
Ambient temperature	-20 °C - 60°C
Fluid operating temperature	-15°C - 80°C
Recommended fluid operating temperature	30°C – 50° C
For temperatures above 120°C	Request FKM seals (V iton)
Max. outlet fluid pressure (OUT)	0.3 - 0.5 bars (with internal drainage)
Inlet fluid filtering (IN)	30 - 60 Microns
Outlet fluid filtering (OUT)	10 - 25 Microns
Max. inlet fluid speed (IN)	0.5 - 1.5 m/s
Max. outlet fluid speed (OUT)	3.0 - 5.5m/s

Flow rate tables

TYPE	cm3/ rev	Flow rate l/min	rpm														Flow rate l/min	
			700	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500	6000	7000	8000		9000
XV 0M/0.45	0,45	Flow rate l/min	0,299	0,428	0,641	0,855	1,069	1,283	1,496	1,710	1,924	2,138	2,351	2,565	2,993	3,420	3,848	Flow rate l/min
XV 0M/0.57	0,56		0,372	0,532	0,798	1,064	1,330	1,596	1,862	2,128	2,394	2,660	2,926	3,192	3,724	4,256	4,788	
XV 0M/0.76	0,75		0,499	0,713	1,069	1,425	1,781	2,138	2,494	2,850	3,206	3,563	3,919	4,275	4,988	5,700	6,413	
XV 0M/0.98	0,92		0,612	0,874	1,311	1,748	2,185	2,622	3,059	3,496	3,933	4,370	4,807	5,244				
XV 0M/1.27	1,26		0,838	1,197	1,796	2,394	2,993	3,591	4,190	4,788	5,387	5,985	6,584	7,182				
XV 0M/1.52	1,48		0,984	1,406	2,109	2,812	3,515	4,218	4,921	5,624	6,327	7,030	7,733	8,436				
XV 0M/2.30	2,28		1,516	2,166	3,249	4,332	5,415	6,498	7,581	8,664	9,747	10,830						

TYPE	cm3/ rev	Flow rate l/min	rpm											Flow rate l/min	
			700	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500		6000
XV 1M/0.9	0,91	Flow rate l/min	0,630	0,900	1,350	1,800	2,250	2,700	3,150	3,600	4,050	4,500	4,950	5,400	Flow rate l/min
XV 1M/1.2	1,17		0,840	1,200	1,800	2,400	3,000	3,600	4,200	4,800	5,400	6,000	6,600	7,200	
XV 1M/1.7	1,56		1,190	1,700	2,550	3,400	4,250	5,100	5,950	6,800	7,650	8,500	9,350	10,200	
XV 1M/2.2	2,08		1,540	2,200	3,300	4,400	5,500	6,600	7,700	8,800	9,900	11,000	12,100	13,200	
XV 1M/2.6	2,6		1,820	2,600	3,900	5,200	6,500	7,800	9,100	10,400	11,700	13,000	14,300	15,600	
XV 1M/3.2	3,12		2,240	3,200	4,800	6,400	8,000	9,600	11,200	12,800	14,400	16,000	17,600	19,200	
XV 1M/3.8	3,64		2,660	3,800	5,700	7,600	9,500	11,400	13,300	15,200	17,100	19,000	20,900	22,800	
XV 1M/4.3	4,16		3,010	4,300	6,450	8,600	10,750	12,900	15,050	17,200	19,350	21,500	23,650	25,800	
XV 1M/4.9	4,94		3,430	4,900	7,350	9,800	12,250	14,700	17,150	19,600	22,050	24,500	26,950	29,400	
XV 1M/5.9	5,85		4,130	5,900	8,850	11,800	14,750	17,700	20,650	23,600	26,550	29,500			
XV 1M/6.5	6,5		4,550	6,500	9,750	13,000	16,250	19,500	22,750	26,000	29,250	32,500			
XV 1M/7.8	7,54		5,460	7,800	11,700	15,600	19,500	23,400	27,300	31,200	35,100	39,000			
XV 1P/9.8	9,88		6,860	9,800	14,700	19,600	24,500	29,400	34,300	39,200					

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
MOTOR 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°C 80 Shore, thermal resistance 200°C
BACK-UP RINGS	Virgin PTFE Tecnil Q3	

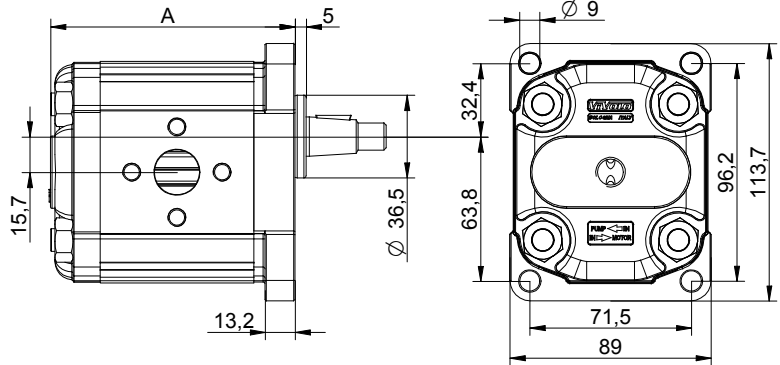
Table of variations

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

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



Series	X	series XV
Group	2	group 2
Category	M	reversible motor
Displacement		
Flange		
Shaft		
Body	IN OUT	
Cover		



ø36.5 FLANGE		Shaft	
	Code		Code
	01	CI001 - Parallel T.2 = 44.1 [Nm]	CI002 - Parallel T.2 = 67.5 [Nm]
	04	CO001 - Tapered T.2 = 233.2 [Nm]	CO002 - Tapered T.2 = 233.2 [Nm]
	05	SCF02 - Splined m=1,6 Z=9 DIN 5482 - 17x14 T.2 = 86.1 [Nm]	SCF03 - Splined m=1,6 Z=9 DIN 5482 - 17x14 T.2 = 86.1 [Nm]
		SCF04 - Splined SAE J 498 9T 16/32 DP T.2 = 67.1 [Nm]	SCF01 - Splined m=1,6 Z=9 DIN 5482 - 17x14 T.2 = 86.2 [Nm]

Table of variations

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

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

Table showing standard flange and thread combinations available in stock

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

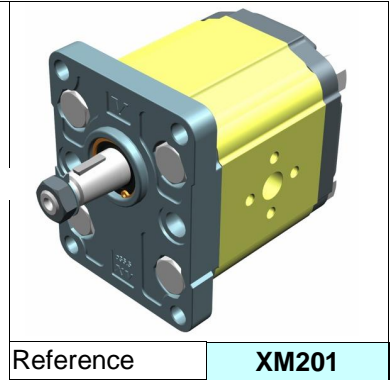
Cover		Code
		E
		F
		K
		L
		P

reversible motor - series XV

XV-2M

STANDARD EUROPEAN MOTOR
 ø36.5 FLANGE - TAPER SHAFT

X	2	M	51	01	E	P	P	E
Series	X	series XV						
Group	2	group 2						
Category	M	reversible motor						
Displacement	51	17						
Flange	01	Ø36.5 STANDARD EUROPEAN reversible rotation						
Shaft	E	CO001 - Tapered 1:8 - ø17.4 - M12x1.5 - key thk.4						
Body	IN	P	inlet - Ø40 Ø20 M8					
	OUT	P	outlet - Ø40 Ø20 M8					
Cover	E	with external drainage						

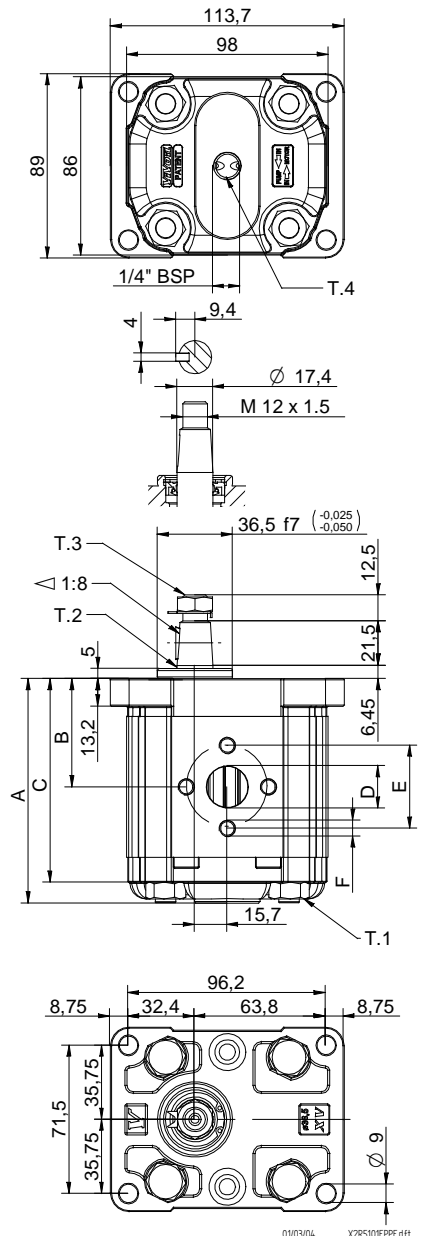


Reference **XM201**

Technical data table																					
TYPE	Displacement cm3/rev	Max. Pressure		CODE																	
		P1 bar	P3 bar	External drainage				Internal drainage													
XV-2M/04	4,20	260	300	X	2	M	41	01	E	00	E	X	2	M	41	01	E	00	F		
XV-2M/06	6,00	260	300	X	2	M	43	01	E	00	E	X	2	M	43	01	E	00	F		
XV-2M/09	8,40	260	300	X	2	M	45	01	E	00	E	X	2	M	45	01	E	00	F		
XV-2M/11	10,80	260	300	X	2	M	47	01	E	00	E	X	2	M	47	01	E	00	F		
XV-2M/14	14,40	250	290	X	2	M	49	01	E	P	P	E	X	2	M	49	01	E	P	P	F
XV-2M/17	16,80	230	270	X	2	M	51	01	E	P	P	E	X	2	M	51	01	E	P	P	F
XV-2M/19	19,20	210	250	X	2	M	53	01	E	P	P	E	X	2	M	53	01	E	P	P	F
XV-2M/22	22,80	200	240	X	2	M	55	01	E	P	P	E	X	2	M	55	01	E	P	P	F
XV-2M/26	26,20	170	210	X	2	M	57	01	E	Q	P	E	X	2	M	57	01	E	Q	P	F
XV-2M/30	30,00	160	200	X	2	M	59	01	E	Q	P	E	X	2	M	59	01	E	Q	P	F
XV-2M/34	34,20	150	190	X	2	M	61	01	E	Q	P	E	X	2	M	61	01	E	Q	P	F
XV-2M/40	39,60	140	180	X	2	M	63	01	E	Q	P	E	X	2	M	63	01	E	Q	P	F

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 kg	A	B	C	D	E	F	D	E	F
		mm	mm	mm	IN			OUT		
XV-2M/04	2,200	87,2	41,7	77,2	ø13,5	30	M6x1	ø13,5	30	M6x1
XV-2M/06	2,300	90,2	43,2	80,2	ø13,5	30	M6x1	ø13,5	30	M6x1
XV-2M/09	2,400	94,2	45,2	84,2	ø13,5	30	M6x1	ø13,5	30	M6x1
XV-2M/11	2,500	98,2	47,2	88,2	ø13,5	30	M6x1	ø13,5	30	M6x1
XV-2M/14	2,700	104,2	50,2	94,2	ø20	40	M8X1,25	ø20	40	M8X1,25
XV-2M/17	2,800	108,2	52,2	98,2	ø20	40	M8X1,25	ø20	40	M8X1,25
XV-2M/19	2,900	112,2	54,2	102,2	ø20	40	M8X1,25	ø20	40	M8X1,25
XV-2M/22	3,050	118,2	57,2	108,2	ø20	40	M8X1,25	ø20	40	M8X1,25
XV-2M/26	3,150	122,2	59,2	112,2	ø23,5	40	M8X1,25	ø20	40	M8X1,25
XV-2M/30	3,400	130,2	63,2	120,2	ø23,5	40	M8X1,25	ø20	40	M8X1,25
XV-2M/34	3,600	137,2	66,7	127,2	ø23,5	40	M8X1,25	ø20	40	M8X1,25
XV-2M/40	3,800	146,2	71,2	136,2	ø23,5	40	M8X1,25	ø20	40	M8X1,25



T.1 = 54÷58.9 [Nm] - screw tightening torque M10
 T.2 = 233.2 [Nm] - admissible shaft torque (N.B. When choosing a shaft, always check the admissible torque).
 T.3 = 40 [Nm] - torque wrench setting 19
T.4 = 0.3÷0.5 bar - max. drainage pressure

reversible motor - series XV

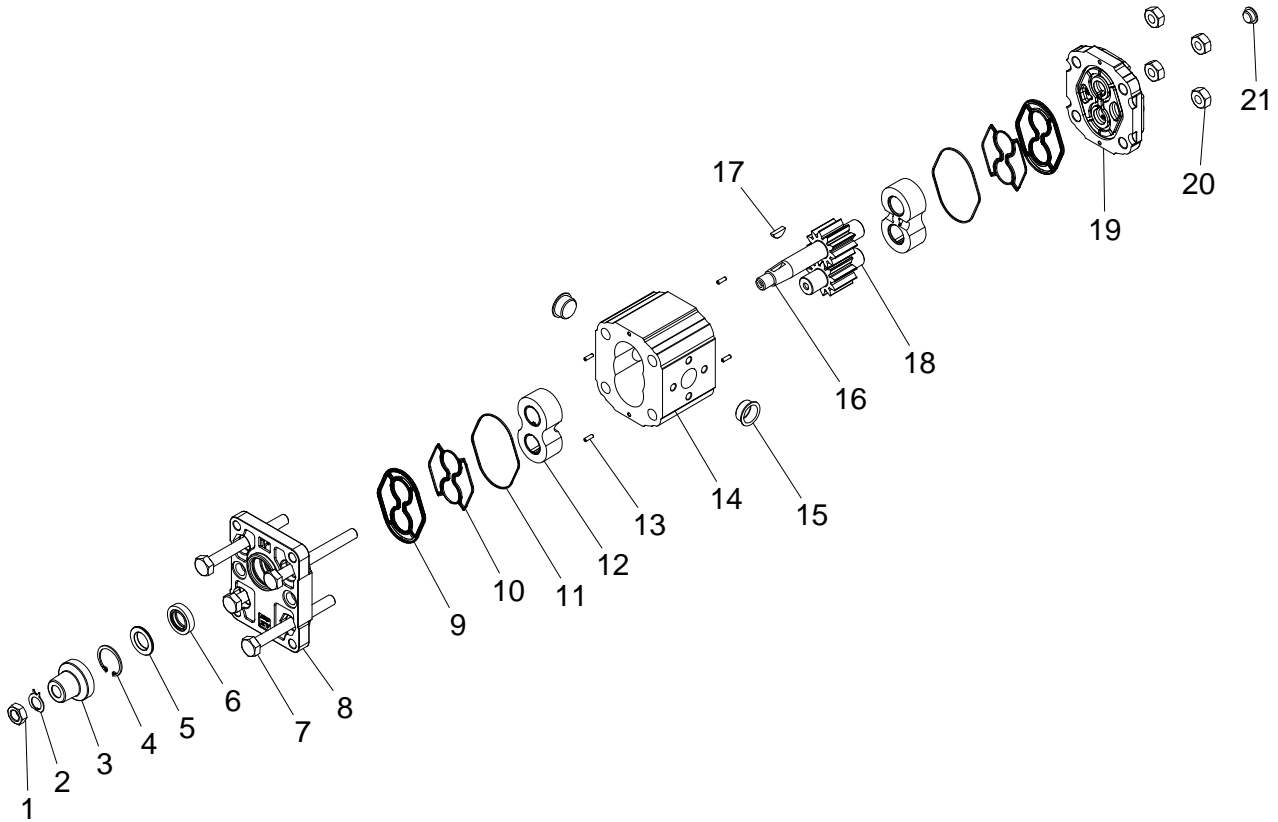
XV-2M

STANDARD EUROPEAN MOTOR
 ø36.5 FLANGE - TAPER SHAFT

Reference	XM201
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Example of ordering code:

X2M5101EPPE XV2M/17 - Ø36.5 /R - CO001 - Ø40 M8 - Ø40 M8 - Dren. est.



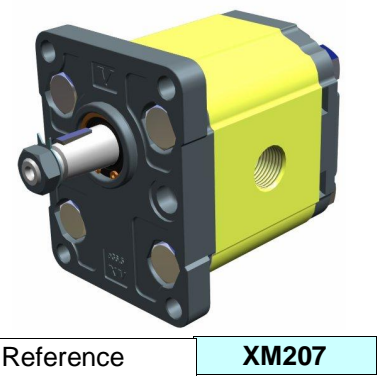
Basic list				
Pos.	Item description	Item	Size	Quantity
1	NUT M12x1,5 H=7 CH.17	200.0157.A	0	1
2	TAB WASHER ø12,5xø19 - CO001-CO002 XV2	200.0150.A	0	1
3	KEY PROTECTION XV2	590.0010.A	0	1
4	ø29 INTERNAL SNAP RING DIN 472	560.0020.A	0	1
5	BACK UP WASHER OIL SEAL XV2M	200.0126.A	0	1
6	OIL SEAL 17.46 x 28.58 x 6.4 SCV	690.0105.A	0	1
7	WHITE GALVANISED SCREW TE M10x100 UNI 5737 8.8	531.0010.A	L100	4
8	XV2 ø36,5 FLANGE	200.0238.A	0	1
9	INJECTION-MOLDED SEAL XV2 (NBR 70÷75 SH)	200.0190.C	0	2
10	XV2 BACK-UP ELEMENT FOR BALANCING	200.0191.A	0	2
11	EXTERNAL BACK-UP ELEMENT XV2	200.0194.A	0	2
12	KV2P BUSH H=20	200.0012.A	0	2
13	PIN ø3x9,8	570.0005.A	0	4
14	STANDARD CROSS FLANGED BODY - cc=17	200.0049.A	H68	1
15	PLASTIC PLUG ø21	580.0001.A	D21	2
16	CO001 - TAPERED 1:8 DRIVING GEAR	200.0009.A	CC17	1
17	WOODRUFF KEY ø16x4 H=6,5	200.0141.A	0	1
18	COND2 - PERFORATED DRIVEN GEAR	200.0010.A	CC17	1
19	NEUTRAL XV2 COVER W/DRAINAGE 1/4" BSP	200.0008.X	F2ZZA	1
20	WHITE GALVANISED NUT M10 H=10 UNI 5587	540.0005.A	0	4
21	PLASTIC PLUG ø12	580.0001.A	D12	1

reversible motor - series XV

XV-2M

STANDARD EUROPEAN MOTOR
 ø36.5 FLANGE - TAPER SHAFT

X	2	M	51	01	E	C	C	E
Series	X		series XV					
Group	2		group 2					
Category	M		reversible motor					
Displacement	51		17					
Flange	01		ø36.5 STANDARD EUROPEAN reversible rotation					
Shaft	E		CO001 - Tapered 1:8 - ø17.4 - M12x1.5 - key thk.4					
Body	IN	C	inlet - 3/4" GAS					
	OUT	C	outlet - 3/4" GAS					
Cover	E		with external drainage					

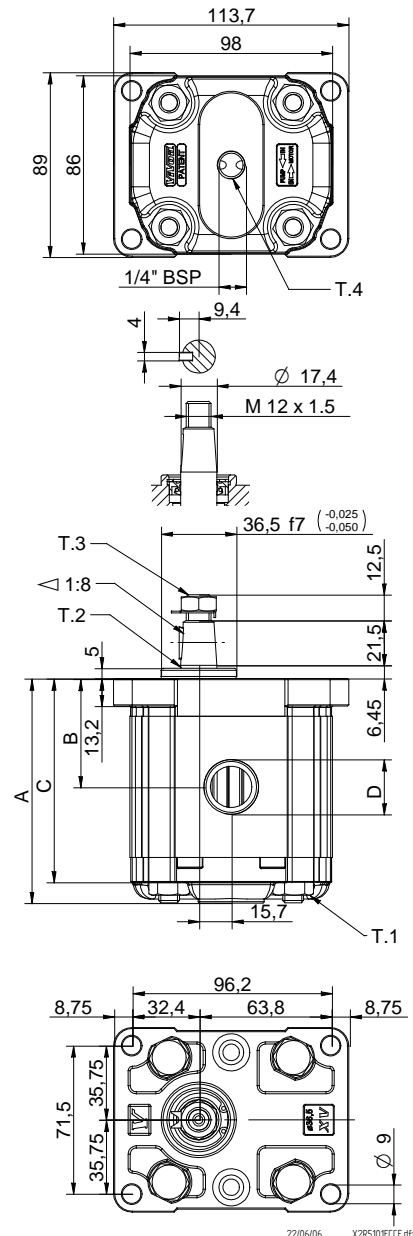


Reference **XM207**

Technical data table						
TYPE	Displacement cm3/rev	Max. Pressure		CODE		
		P1 bar	P3 bar	External drainage		Internal drainage
XV-2M/04	4,20	260	300	X 2 M 41 01 E B B E	X 2 M 41 01 E B B F	
XV-2M/06	6,00	260	300	X 2 M 43 01 E B B E	X 2 M 43 01 E B B F	
XV-2M/09	8,40	260	300	X 2 M 45 01 E B B E	X 2 M 45 01 E B B F	
XV-2M/11	10,80	260	300	X 2 M 47 01 E B B E	X 2 M 47 01 E B B F	
XV-2M/14	14,40	250	290	X 2 M 49 01 E C C E	X 2 M 49 01 E C C F	
XV-2M/17	16,80	230	270	X 2 M 51 01 E C C E	X 2 M 51 01 E C C F	
XV-2M/19	19,20	210	250	X 2 M 53 01 E C C E	X 2 M 53 01 E C C F	
XV-2M/22	22,80	200	240	X 2 M 55 01 E C C E	X 2 M 55 01 E C C F	
XV-2M/26	26,20	170	210	X 2 M 57 01 E D D E	X 2 M 57 01 E D D F	
XV-2M/30	30,00	160	200	X 2 M 59 01 E D D E	X 2 M 59 01 E D D F	
XV-2M/34	34,20	150	190	X 2 M 61 01 E D D E	X 2 M 61 01 E D D F	
XV-2M/40	39,60	140	180	X 2 M 63 01 E D D E	X 2 M 63 01 E D D F	

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 kg	A	B	C	D	D
		mm	mm	mm	IN	OUT
XV-2M/04	2,200	87,2	41,7	77,2	1/2" BSPP	1/2" BSPP
XV-2M/06	2,300	90,2	43,2	80,2	1/2" BSPP	1/2" BSPP
XV-2M/09	2,400	94,2	45,2	84,2	1/2" BSPP	1/2" BSPP
XV-2M/11	2,500	98,2	47,2	88,2	1/2" BSPP	1/2" BSPP
XV-2M/14	2,700	104,2	50,2	94,2	3/4" BSPP	3/4" BSPP
XV-2M/17	2,800	108,2	52,2	98,2	3/4" BSPP	3/4" BSPP
XV-2M/19	2,900	112,2	54,2	102,2	3/4" BSPP	3/4" BSPP
XV-2M/22	3,050	118,2	57,2	108,2	3/4" BSPP	3/4" BSPP
XV-2M/26	3,150	122,2	59,2	112,2	1" BSPP	1" BSPP
XV-2M/30	3,400	130,2	63,2	120,2	1" BSPP	1" BSPP
XV-2M/34	3,600	137,2	66,7	127,2	1" BSPP	1" BSPP
XV-2M/40	3,800	146,2	71,2	136,2	1" BSPP	1" BSPP



T.1 = 54÷58.9 [Nm] - screw tightening torque M10
 T.2 = 233.2 [Nm] - admissible shaft torque (N.B. When choosing a shaft, always check the admissible torque).
 T.3 = 40 [Nm] - torque wrench setting 19
 T.4 = 0.3÷0.5 bar - max. drainage pressure

reversible motor - series XV

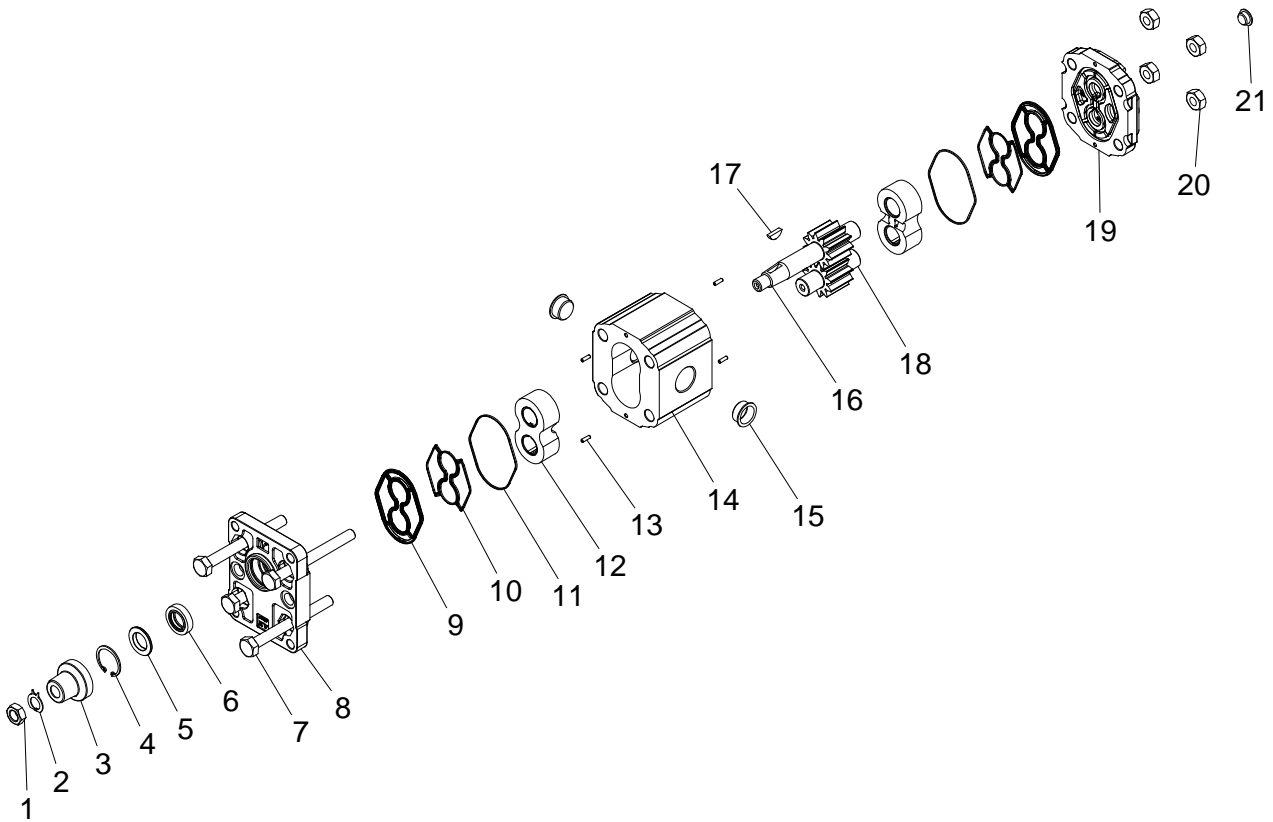
XV-2M

STANDARD EUROPEAN MOTOR
 ø36.5 FLANGE - TAPER SHAFT

Reference **XM207**

Example of ordering code:

X2M5101ECCE XV2M/17 - ø36.5 /R - CO001 - 3/4" BSP - 3/4" BSP - Dren. est.



Basic list				
Pos.	Item description	Item	Size	Quantity
1	NUT M12x1,5 H=7 CH.17	200.0157.A	0	1
2	TAB WASHER ø12,5xø19 - CO001-CO002 XV2	200.0150.A	0	1
3	KEY PROTECTION XV2	590.0010.A	0	1
4	ø29 INTERNAL SNAP RING DIN 472	560.0020.A	0	1
5	BACK UP WASHER OIL SEAL XV2M	200.0126.A	0	1
6	OIL SEAL 17.46 x 28.58 x 6.4 SCV	690.0105.A	0	1
7	WHITE GALVANISED SCREW TE M10x100 UNI 5737 8.8	531.0010.A	L100	4
8	XV2 ø36,5 FLANGE	200.0238.A	0	1
9	INJECTION-MOLDED SEAL XV2 (NBR 70÷75 SH)	200.0190.C	0	2
10	XV2 BACK-UP ELEMENT FOR BALANCING	200.0191.A	0	2
11	EXTERNAL BACK-UP ELEMENT XV2	200.0194.A	0	2
12	KV2P BUSH H=20	200.0012.A	0	2
13	PIN ø3x9,8	570.0005.A	0	4
14	BODY W/THREAD MOTOR BSP - cc=17	200.0050.A	H68	1
15	PLASTIC PLUG ø25	580.0001.A	D25	2
16	CO001 - TAPERED 1:8 DRIVING GEAR	200.0009.A	CC17	1
17	WOODRUFF KEY ø16x4 H=6,5	200.0141.A	0	1
18	COND2 - PERFORATED DRIVEN GEAR	200.0010.A	CC17	1
19	NEUTRAL XV2 COVER W/DRAINAGE 1/4" BSP	200.0008.X	F2ZZA	1
20	WHITE GALVANISED NUT M10 H=10 UNI 5587	540.0005.A	0	4
21	PLASTIC PLUG ø12	580.0001.A	D12	1

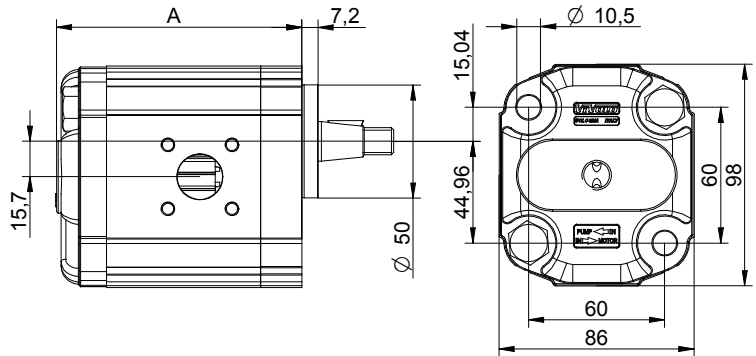
Table of variations

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

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



Series	X	series XV
Group	2	group 2
Category	M	reversible motor
Displacement		
Flange		
Shaft		
Body	IN OUT	
Cover		



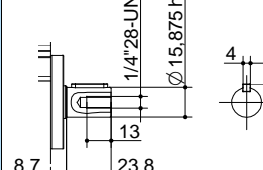
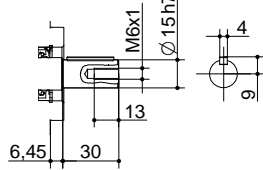
ø50 "BH" Body-Shaped FLANGE

Shaft

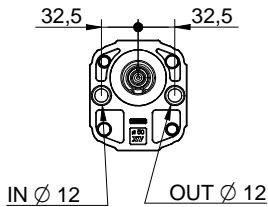
Code
07



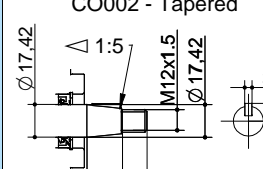
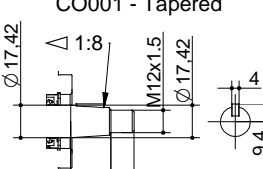
Code	Code
CI001 - Parallel	CI002 - Parallel
A	B



10



CO001 - Tapered	CO002 - Tapered
F	F



SCF03 - Splined	H	Z
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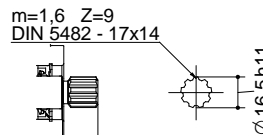


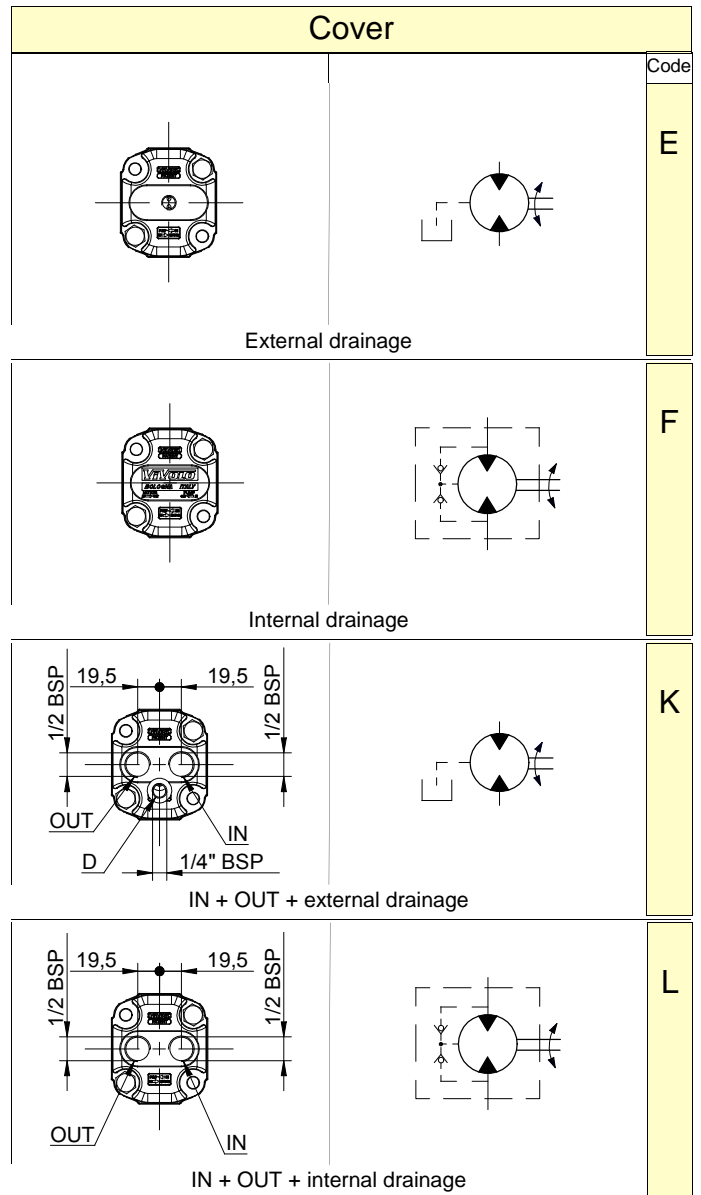
Table of variations

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

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

Table showing standard flange and thread combinations available in stock

Body (threads/flanges)				
Closed Body	Z			



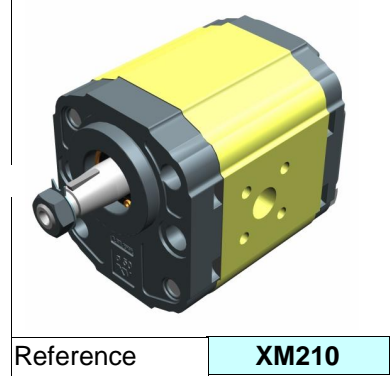
reversible motor - series XV

XV-2M

BH TYPE MOTOR

Ø50 BODY-SHAPED FLANGE - TAPER SHAFT

X	2	M	51	07	F	R	R	E
Series	X	series XV						
Group	2	group 2						
Category	M	reversible motor						
Displacement	51	17						
Flange	07	Ø50 BH GERMAN STANDARDIZED reversible rotation						
Shaft	F	CO002 - Tapered 1:5 - Ø17.4 - M12x1.5 - key thk.3						
Body	IN	R	inlet - Ø35 a 45° Ø15 M6					
	OUT	R	outlet - Ø35 a 45° Ø15 M6					
Cover	E	with external drainage						

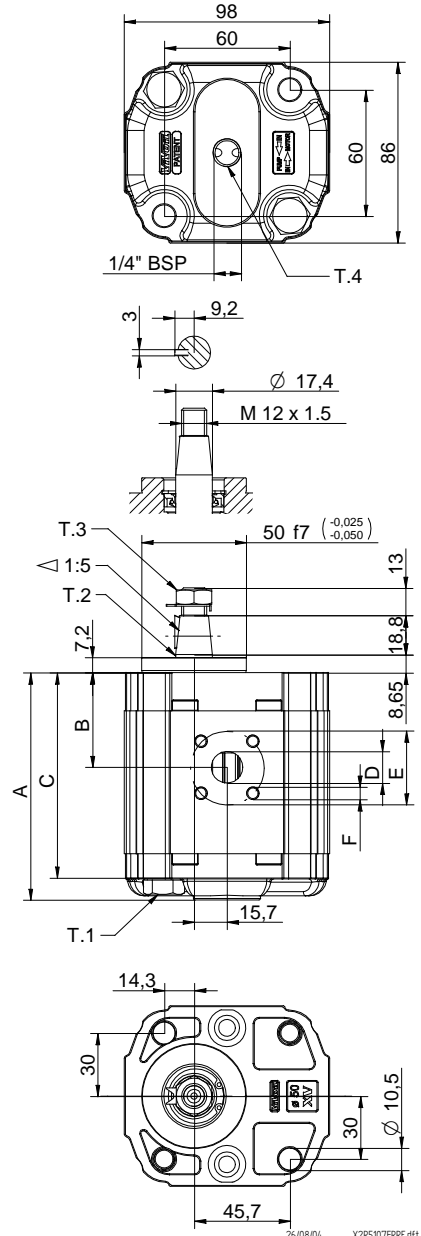


Reference **XM210**

Technical data table																					
TYPE	Displacement cm3/rev	Max. Pressure		CODE																	
		P1 bar	P3 bar	External drainage				Internal drainage													
XV-2M/04	4,20	260	300	X	2	M	41	07	F	R	R	E	X	2	M	41	07	F	R	R	F
XV-2M/06	6,00	260	300	X	2	M	43	07	F	R	R	E	X	2	M	43	07	F	R	R	F
XV-2M/09	8,40	260	300	X	2	M	45	07	F	R	R	E	X	2	M	45	07	F	R	R	F
XV-2M/11	10,80	260	300	X	2	M	47	07	F	R	R	E	X	2	M	47	07	F	R	R	F
XV-2M/14	14,40	250	290	X	2	M	49	07	F	R	R	E	X	2	M	49	07	F	R	R	F
XV-2M/17	16,80	230	270	X	2	M	51	07	F	R	R	E	X	2	M	51	07	F	R	R	F
XV-2M/19	19,20	210	250	X	2	M	53	07	F	R	R	E	X	2	M	53	07	F	R	R	F
XV-2M/22	22,80	200	240	X	2	M	55	07	F	R	R	E	X	2	M	55	07	F	R	R	F
XV-2M/26	26,20	170	210	X	2	M	57	07	F	S	S	E	X	2	M	57	07	F	S	S	F
XV-2M/30	30,00	160	200	X	2	M	59	07	F	S	S	E	X	2	M	59	07	F	S	S	F
XV-2M/34	34,20	150	190	X	2	M	61	07	F	S	S	E	X	2	M	61	07	F	S	S	F
XV-2M/40	39,60	140	180	X	2	M	63	07	F	S	S	E	X	2	M	63	07	F	S	S	F

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 kg	A	B	C	D	E	F	D	E	F
		mm	mm	mm	IN			OUT		
XV-2M/04	2,100	87,2	38,6	77,2	Ø15	35	M6x1	Ø15	35	M6x1
XV-2M/06	2,200	90,2	38,6	80,2	Ø15	35	M6x1	Ø15	35	M6x1
XV-2M/09	2,300	94,2	40,6	84,2	Ø15	35	M6x1	Ø15	35	M6x1
XV-2M/11	2,400	98,2	45,0	88,2	Ø15	35	M6x1	Ø15	35	M6x1
XV-2M/14	2,600	104,2	45,0	94,2	Ø15	35	M6x1	Ø15	35	M6x1
XV-2M/17	2,700	108,2	45,0	98,2	Ø15	35	M6x1	Ø15	35	M6x1
XV-2M/19	2,800	112,2	45,0	102,2	Ø15	35	M6x1	Ø15	35	M6x1
XV-2M/22	2,950	118,2	52,5	108,2	Ø15	35	M6x1	Ø15	35	M6x1
XV-2M/26	3,050	122,2	52,5	112,2	Ø20	40	M6x1	Ø20	40	M6x1
XV-2M/30	3,300	130,2	60,7	120,2	Ø20	40	M6x1	Ø20	40	M6x1
XV-2M/34	3,500	137,2	60,7	127,2	Ø20	40	M6x1	Ø20	40	M6x1
XV-2M/40	3,700	146,2	60,7	136,2	Ø20	40	M6x1	Ø20	40	M6x1



T.1 = 54÷58.9 [Nm] - screw tightening torque M10
T.2 = 233.2 [Nm] - admissible shaft torque (N.B. When choosing a shaft, always check the admissible torque).
T.3 = 40 [Nm] - torque wrench setting 19
T.4 = 0.3÷0.5 bar - max. drainage pressure

reversible motor - series XV

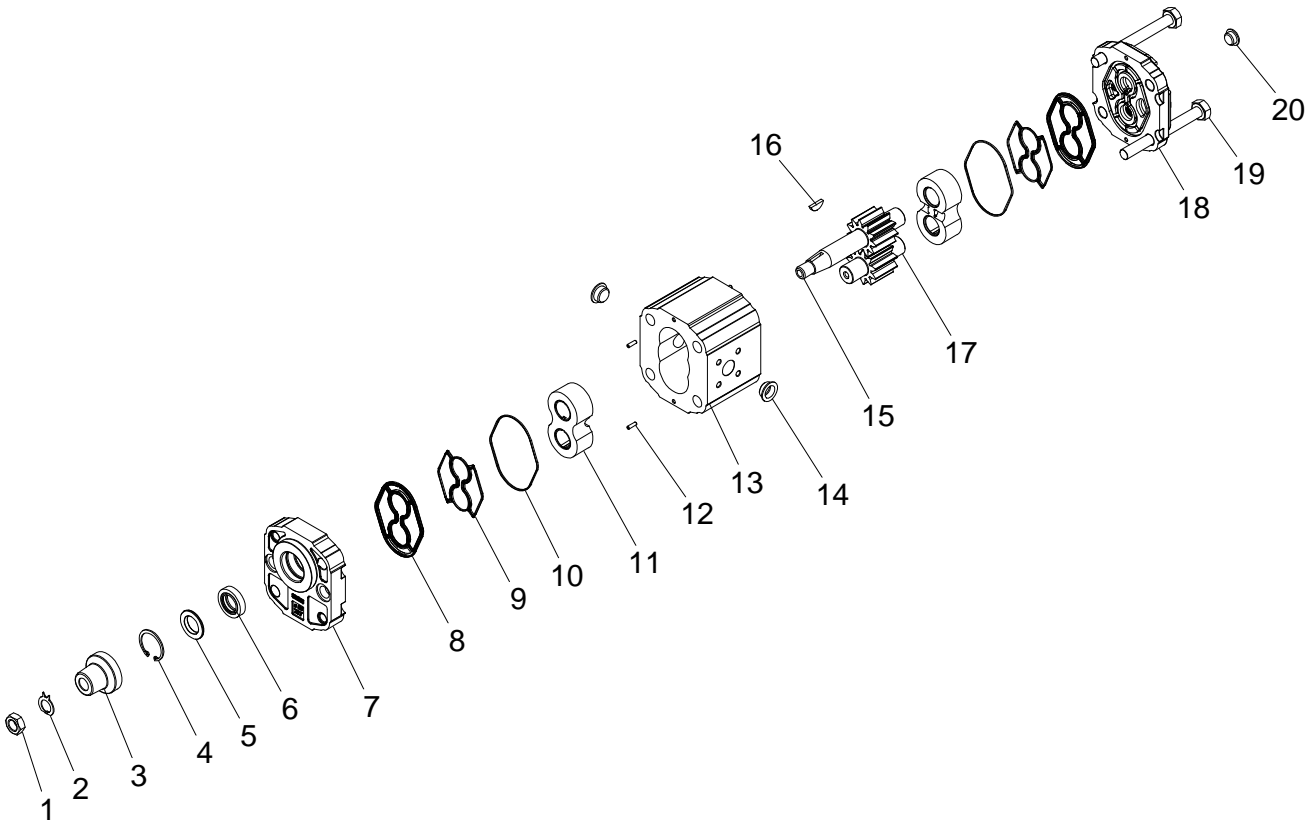
XV-2M

**BH TYPE MOTOR
ø50 BODY-SHAPED FLANGE - TAPER SHAFT**

Reference **XM210**

Example of ordering code:

X2M5107FRRE XV2M/17 - Ø50 BH /R - CO002 - Ø35 M6 # - Ø35 M6 # - Dren. est.



Basic list				
Pos.	Item description	Item	Size	Quantity
1	NUT M12x1,5 H=7 CH.17	200.0157.A	0	1
2	TAB WASHER ø12,5xø19 - CO001-CO002 XV2	200.0150.A	0	1
3	KEY PROTECTION XV2	590.0010.A	0	1
4	ø29 INTERNAL SNAP RING DIN 472	560.0020.A	0	1
5	BACK UP WASHER OIL SEAL XV2M	200.0126.A	0	1
6	OIL SEAL 17.46 x 28.58 x 6.4 SCV	690.0105.A	0	1
7	XV2 ø50 BH FLANGE	200.0254.A	0	1
8	INJECTION-MOLDED SEAL XV2 (NBR 70÷75 SH)	200.0190.C	0	2
9	XV2 BACK-UP ELEMENT FOR BALANCING	200.0191.A	0	2
10	EXTERNAL BACK-UP ELEMENT XV2	200.0194.A	0	2
11	KV2P BUSH H=20	200.0012.A	0	2
12	PIN ø3x9,8	570.0005.A	0	4
13	BOSCH FLANGED BODY 15 35-M6# - 15 35-M6# - cc=17	200.0091.A	H68	1
14	PLASTIC PLUG ø15,5	580.0001.A	D15,5	2
15	CO002 BOSCH - TAPERED 1:5 DRIVING GEAR	200.0047.A	CC17	1
16	WOODRUFF KEY ø16x3 H=6,5	200.0142.A	0	1
17	COND2 - PERFORATED DRIVEN GEAR	200.0010.A	CC17	1
18	NEUTRAL XV2 COVER W/DRAINAGE 1/4" BSP	200.0008.X	F2ZZA	1
19	WHITE GALVANISED SCREW TE M10x95 UNI 5737 8.8	531.0010.A	L095	2
20	PLASTIC PLUG ø12	580.0001.A	D12	1

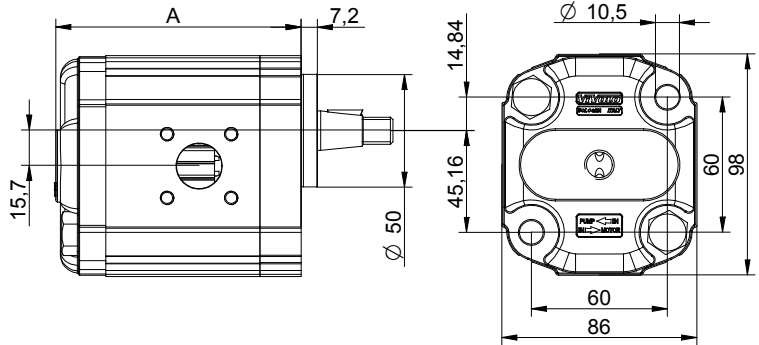
Table of variations

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

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




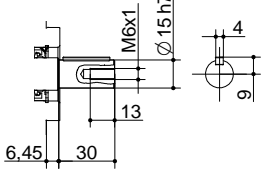
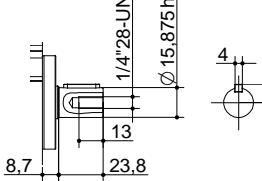
Series	X	series XV
Group	2	group 2
Category	M	reversible motor
Displacement		
Flange		
Shaft		
Body	IN OUT	
Cover		

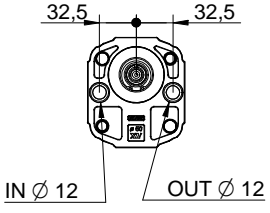


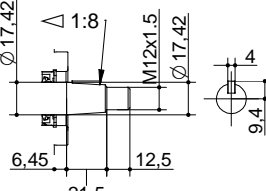
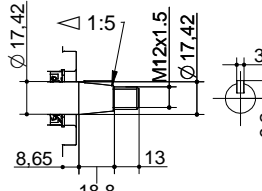
ø50 "HY" Body-Shaped FLANGE

Shaft

	Code
	13

	Code		Code
<p>CI001 - Parallel</p>  <p>T.2 = 44.1 [Nm]</p>	A	<p>CI002 - Parallel</p>  <p>T.2 = 67.5 [Nm]</p>	B

	16
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<p>CO001 - Tapered</p>  <p>T.2 = 233.2 [Nm]</p>	E	<p>CO002 - Tapered</p>  <p>T.2 = 233.2 [Nm]</p>	F
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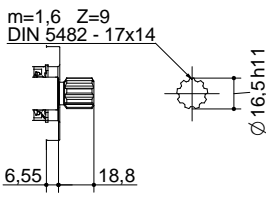
<p>SCF03 - Splined</p>  <p>T.2 = 86.1 [Nm]</p>	H		Z
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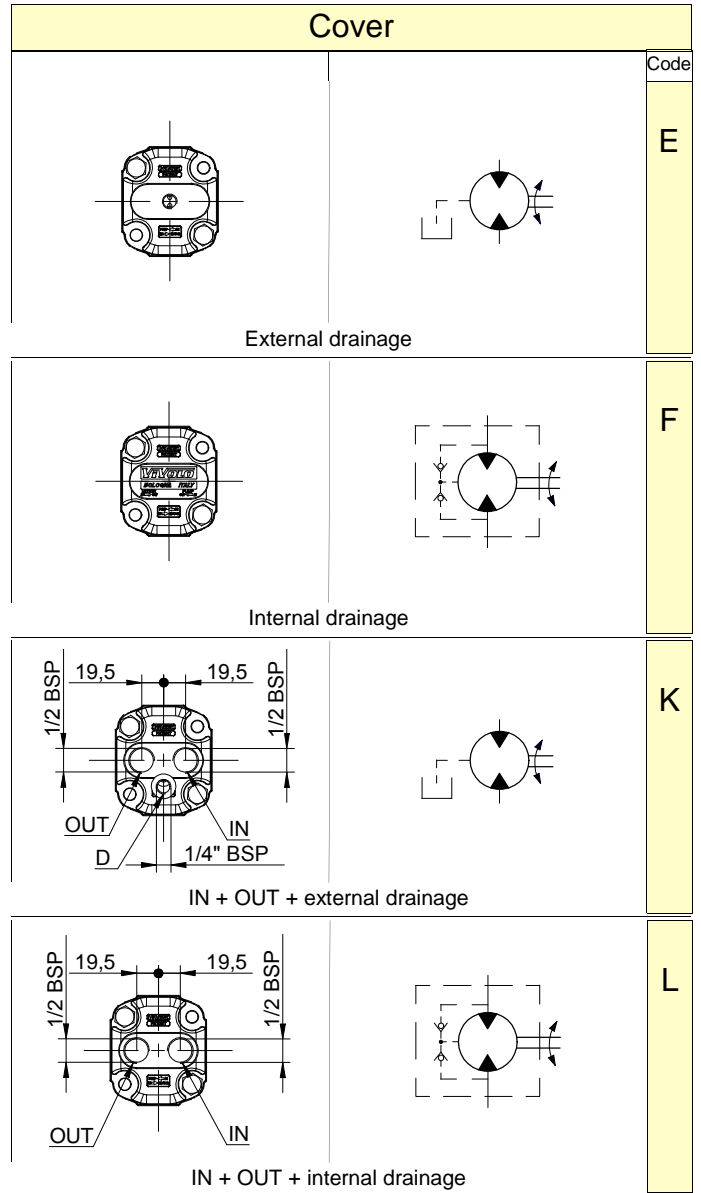
Table of variations

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

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

Table showing standard flange and thread combinations available in stock

Body (threads/flanges)				
Closed Body				Z



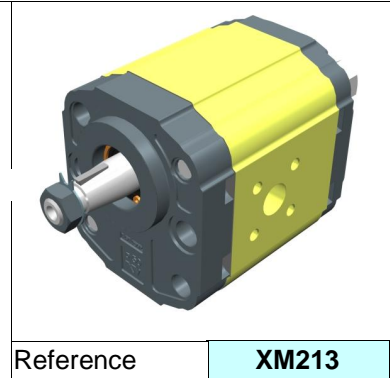
reversible motor - series XV

XV-2M

HY TYPE MOTOR

Ø50 BODY-SHAPED FLANGE - TAPER SHAFT

X	2	M	51	13	F	R	R	E
Series	X	series XV						
Group	2	group 2						
Category	M	reversible motor						
Displacement	51	17						
Flange	13	Ø50 HY GERMAN STANDARDIZED reversible rotation						
Shaft	F	CO002 - Tapered 1:5 - ø17.4 - M12x1.5 - key thk.3						
Body	IN	R	inlet - Ø35 a 45° Ø15 M6					
	OUT	R	outlet - Ø35 a 45° Ø15 M6					
Cover	E	with external drainage						



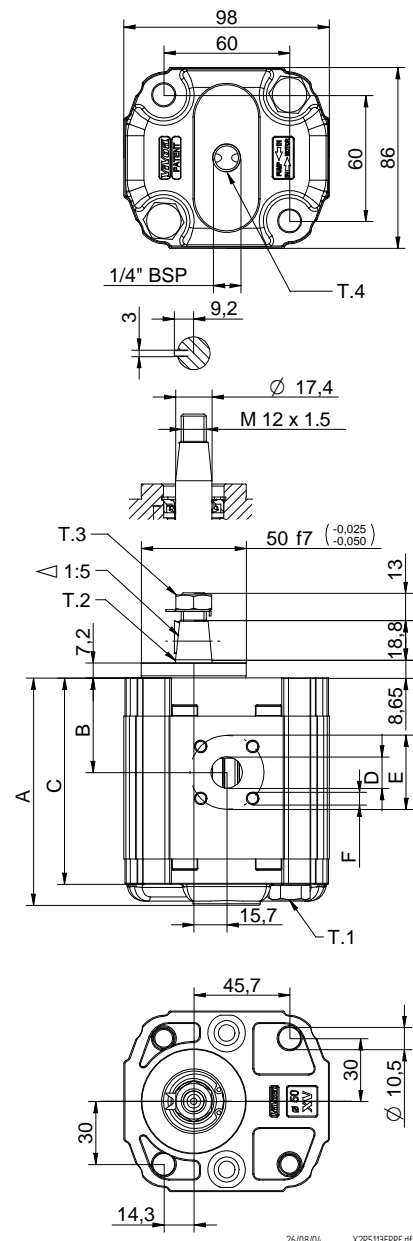
Reference **XM213**

Technical data table																					
TYPE	Displacement cm3/rev	Max. Pressure		CODE																	
		P1 bar	P3 bar	External drainage				Internal drainage													
XV-2M/04	4,20	260	300	X	2	M	41	13	F	R	R	E	X	2	M	41	13	F	R	R	F
XV-2M/06	6,00	260	300	X	2	M	43	13	F	R	R	E	X	2	M	43	13	F	R	R	F
XV-2M/09	8,40	260	300	X	2	M	45	13	F	R	R	E	X	2	M	45	13	F	R	R	F
XV-2M/11	10,80	260	300	X	2	M	47	13	F	R	R	E	X	2	M	47	13	F	R	R	F
XV-2M/14	14,40	250	290	X	2	M	49	13	F	R	R	E	X	2	M	49	13	F	R	R	F
XV-2M/17	16,80	230	270	X	2	M	51	13	F	R	R	E	X	2	M	51	13	F	R	R	F
XV-2M/19	19,20	210	250	X	2	M	53	13	F	R	R	E	X	2	M	53	13	F	R	R	F
XV-2M/22	22,80	200	240	X	2	M	55	13	F	R	R	E	X	2	M	55	13	F	R	R	F
XV-2M/26	26,20	170	210	X	2	M	57	13	F	S	S	E	X	2	M	57	13	F	S	S	F
XV-2M/30	30,00	160	200	X	2	M	59	13	F	S	S	E	X	2	M	59	13	F	S	S	F
XV-2M/34	34,20	150	190	X	2	M	61	13	F	S	S	E	X	2	M	61	13	F	S	S	F
XV-2M/40	39,60	140	180	X	2	M	63	13	F	S	S	E	X	2	M	63	13	F	S	S	F

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



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

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

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

T.4 = 0.3÷0.5 bar - max. drainage pressure

reversible motor - series XV

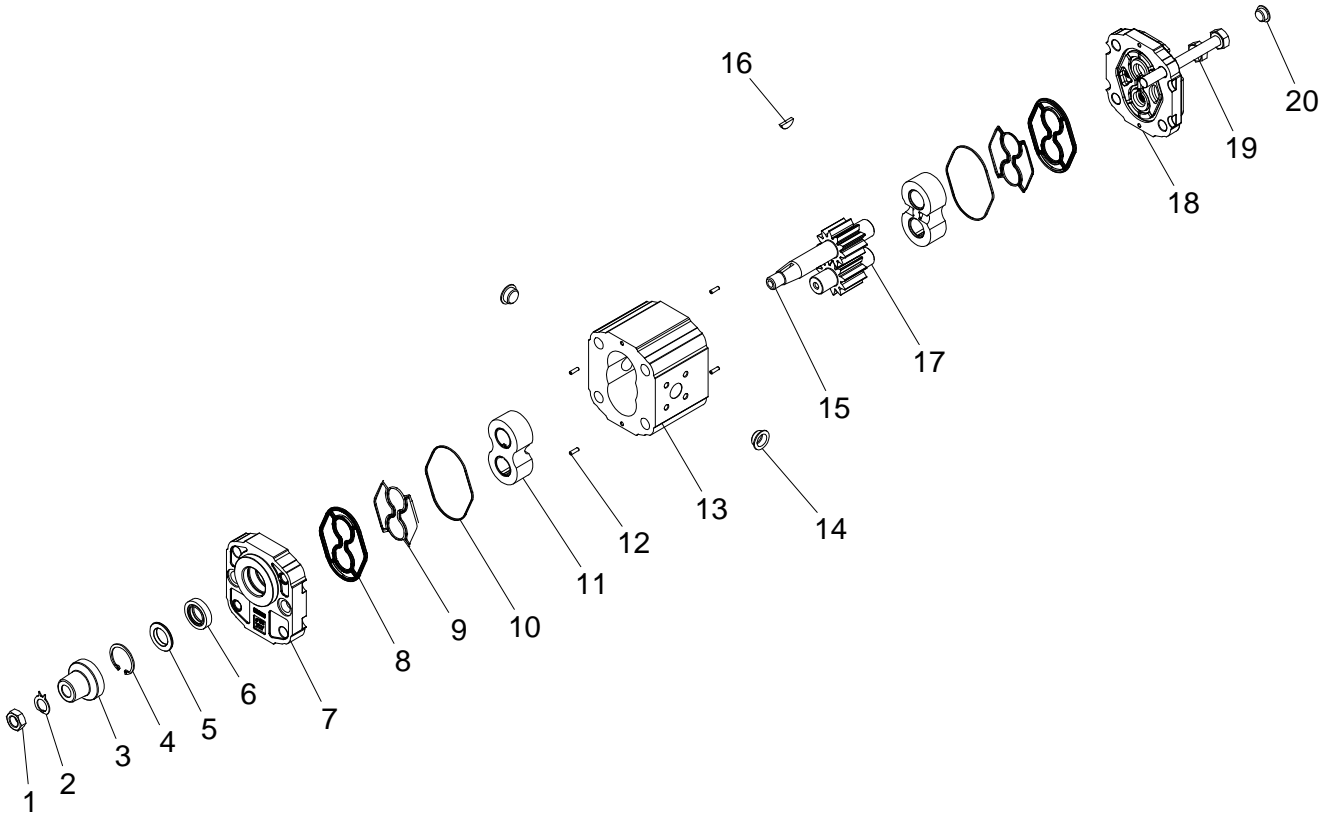
XV-2M

HY TYPE MOTOR
 ø50 BODY-SHAPED FLANGE - TAPER SHAFT

Reference	XM213
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Example of ordering code:

X2M5113FRRE XV2M/17 - Ø50 HY /R - CO002 - Ø35 M6 # - Ø35 M6 # - Dren. est.



Basic list				
Pos.	Item description	Item	Size	Quantity
1	NUT M12x1,5 H=7 CH.17	200.0157.A	0	1
2	TAB WASHER ø12,5xø19 - CO001-CO002 XV2	200.0150.A	0	1
3	KEY PROTECTION XV2	590.0010.A	0	1
4	ø29 INTERNAL SNAP RING DIN 472	560.0020.A	0	1
5	BACK UP WASHER OIL SEAL XV2M	200.0126.A	0	1
6	OIL SEAL 17.46 x 28.58 x 6.4 SCV	690.0105.A	0	1
7	XV2 ø50 HY FLANGE	200.0255.A	0	1
8	INJECTION-MOLDED SEAL XV2 (NBR 70÷75 SH)	200.0190.C	0	2
9	XV2 BACK-UP ELEMENT FOR BALANCING	200.0191.A	0	2
10	EXTERNAL BACK-UP ELEMENT XV2	200.0194.A	0	2
11	KV2P BUSH H=20	200.0012.A	0	2
12	PIN ø3x9,8	570.0005.A	0	4
13	BOSCH FLANGED BODY 15 35-M6# - 15 35-M6# - cc=17	200.0091.A	H68	1
14	PLASTIC PLUG ø15,5	580.0001.A	D15,5	2
15	CO002 BOSCH - TAPERED 1:5 DRIVING GEAR	200.0047.A	CC17	1
16	WOODRUFF KEY ø16x3 H=6,5	200.0142.A	0	1
17	COND2 - PERFORATED DRIVEN GEAR	200.0010.A	CC17	1
18	NEUTRAL XV2 COVER W/DRAINAGE 1/4" BSP	200.0008.X	F2ZZA	1
19	WHITE GALVANISED SCREW TE M10x95 UNI 5737 8.8	531.0010.A	L095	2
20	PLASTIC PLUG ø12	580.0001.A	D12	1

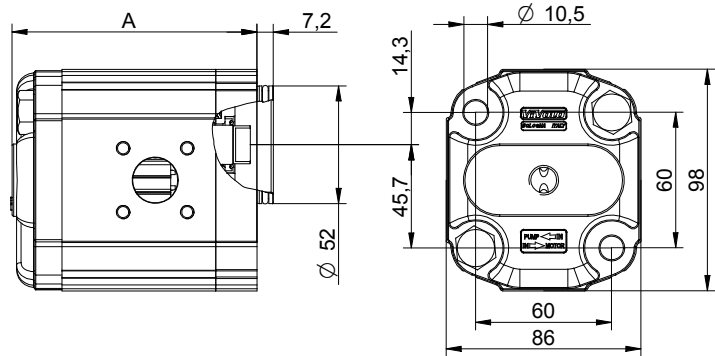
Table of variations

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

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



Series	X	series XV
Group	2	group 2
Category	M	reversible motor
Displacement		
Flange		
Shaft		
Body	IN OUT	
Cover		



Standard German ø52 "BH" FLANGE

Shaft

Code

19

Code	Code
CF001 - Milled shank	SCF05 - Splined
T.2 = 60.5 [Nm]	T.2 = 86.2 [Nm]

Code

22

SCF01 - Splined	
T.2 = 86.2 [Nm]	

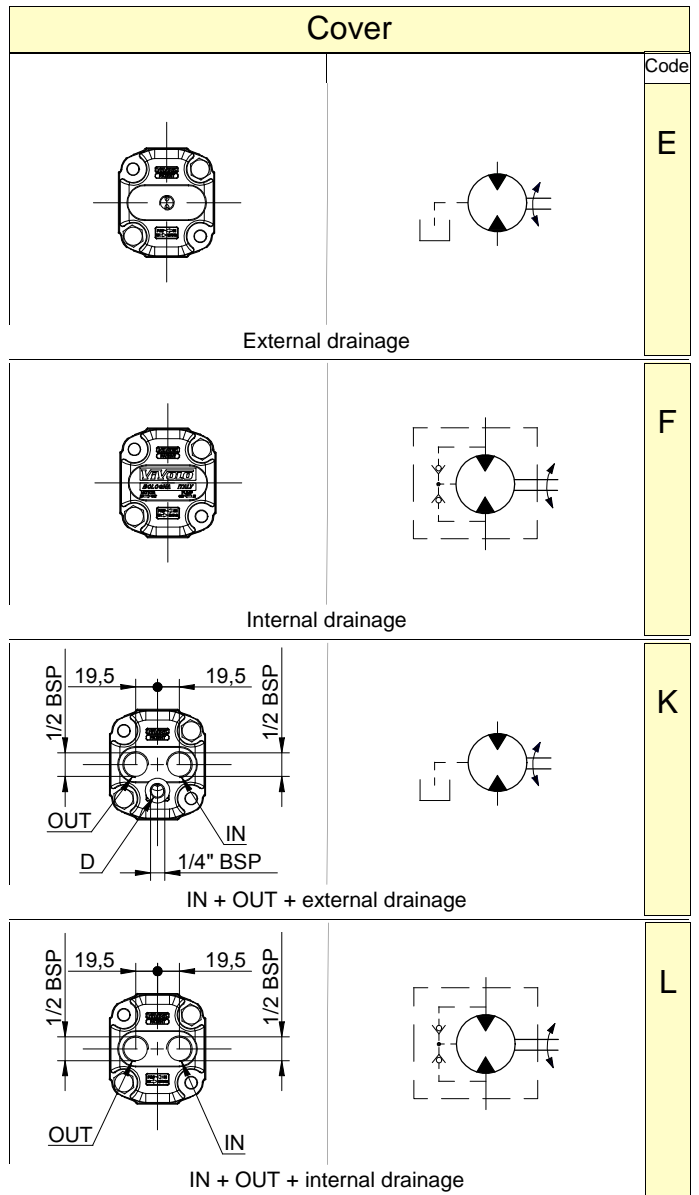
Table of variations

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

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

Table showing standard flange and thread combinations available in stock

Body (threads/flanges)				
Closed Body				Z

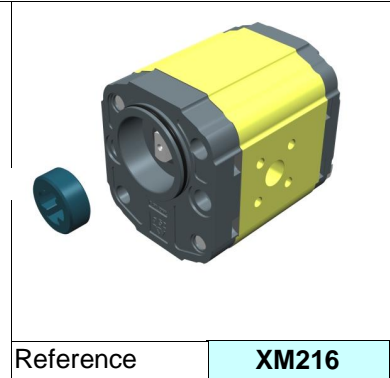


reversible motor - series XV

XV-2M

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

X	2	M	51	19	C	R	R	E
Series	X	series XV						
Group	2	group 2						
Category	M	reversible motor						
Displacement	51	17						
Flange	19	Ø52 GERMAN STANDARDIZED reversible rotation (with OR)						
Shaft	C	CF001 - Milled shank ø15 - thk.8 ("BH" Standard German)						
Body	IN	R	inlet - Ø35 a 45° Ø15 M6					
	OUT	R	outlet - Ø35 a 45° Ø15 M6					
Cover	E	with external drainage						

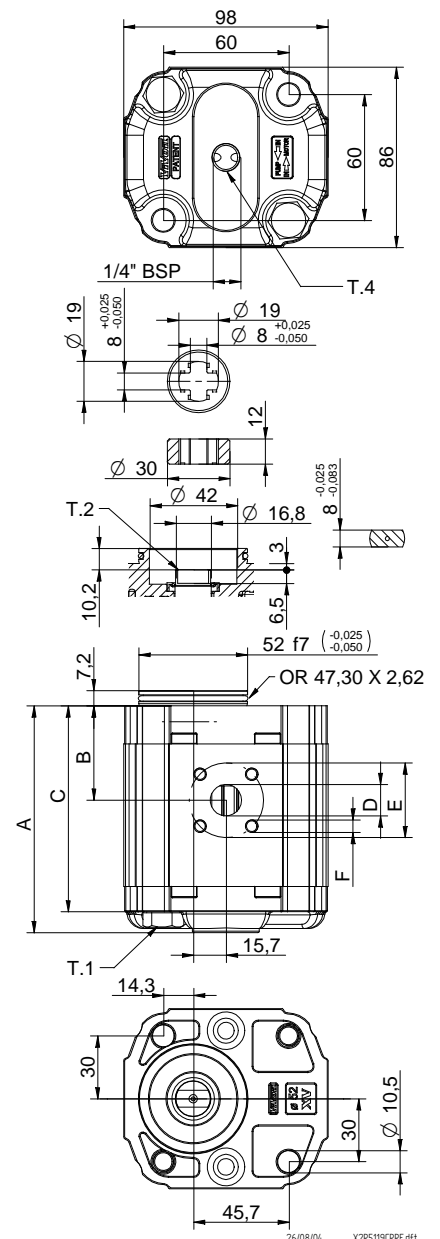


Reference **XM216**

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

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



T.1 = 54÷58.9 [Nm] - screw tightening torque M10
 T.2 = 60.5 [Nm] - admissible shaft torque (N.B. When choosing a shaft, always check the admissible torque).
 T.4 = 0.3÷0.5 bar - max. drainage pressure

reversible motor - series XV

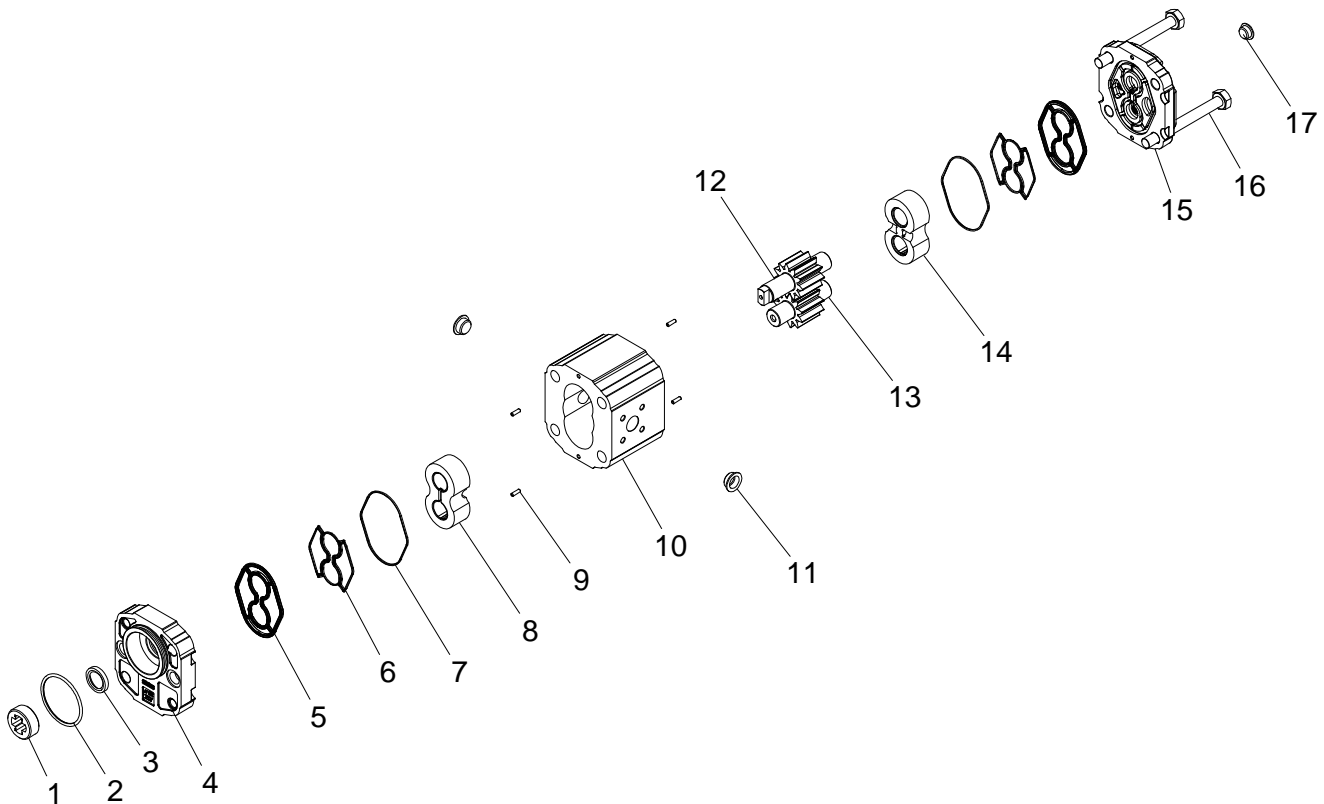
XV-2M

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

Reference	XM216
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Example of ordering code:

X2M5119CRRE XV2M/17 - ø52 /R - CF001 - ø35 M6 # - ø35 M6 # - Dren. est.



Basic list				
Pos.	Item description	Item	Size	Quantity
1	STANDARD PASSING CROSS COUPLING (MILLED 8-8) - ø52 FLANGE	200.0021.A	0	1
2	OR 47.30 x 2.62	650.0070.A	0	1
3	OIL SEAL 17 x 25 x 4 SC (BA)	690.0035.A	0	1
4	XV2 ø52 BH FLANGE	200.0256.X	0	1
5	INJECTION-MOLDED SEAL XV2 (NBR 70÷75 SH)	200.0190.C	0	2
6	XV2 BACK-UP ELEMENT FOR BALANCING	200.0191.A	0	2
7	EXTERNAL BACK-UP ELEMENT XV2	200.0194.A	0	2
8	XV2 BUSH H=20 (with channel)	200.0001.A	0	1
9	PIN ø3x9,8	570.0005.A	0	4
10	BOSCH FLANGED BODY 15 35-M6# - 15 35-M6# - cc=17	200.0091.A	H68	1
11	PLASTIC PLUG ø15,5	580.0001.A	D15,5	2
12	CF001 - DRIVING GEAR MILLED SHANK	200.0041.A	CC17	1
13	COND2 - PERFORATED DRIVEN GEAR	200.0010.A	CC17	1
14	KV2P BUSH H=20	200.0012.A	0	1
15	NEUTRAL XV2 COVER W/DRAINAGE 1/4" BSP	200.0008.X	F2ZZA	1
16	WHITE GALVANISED SCREW TE M10x95 UNI 5737 8.8	531.0010.A	L095	2
17	PLASTIC PLUG ø12	580.0001.A	D12	1

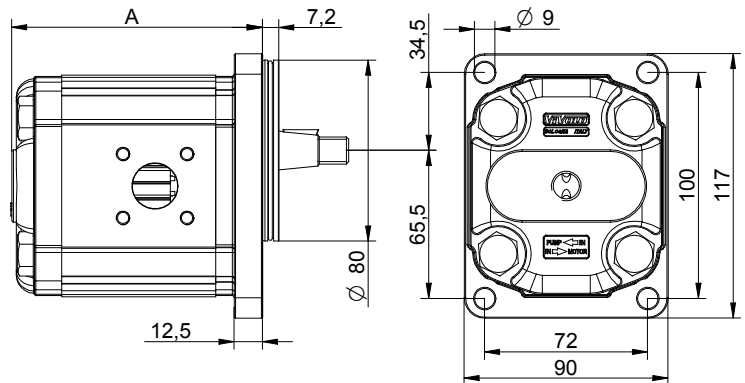
Table of variations

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

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



Series	X	series XV
Group	2	group 2
Category	M	reversible motor
Displacement		
Flange		
Shaft		
Body	IN OUT	
Cover		



ø80 FLANGE	
	Code 25

Shaft	
Code	Code
CI001 - Parallel T.2 = 44.1 [Nm]	CI002 - Parallel T.2 = 67.5 [Nm]
CO001 - Tapered T.2 = 233.2 [Nm]	CO002 - Tapered T.2 = 233.2 [Nm]
SCF03 - Splined m=1.6 Z=9 DIN 5482 - 17x14 T.2 = 86.1 [Nm]	

Table of variations

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

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

Table showing standard flange and thread combinations available in stock

Body (threads/flanges)				
3/8" BSP	1/2" BSP	3/4" BSP	1" BSP	
				A
				E
				I
				O
				S
				Z

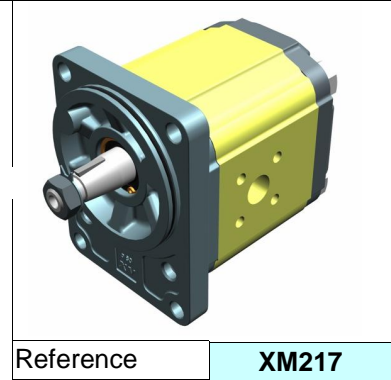
Cover		Code
		E
		F
		K
		L

reversible motor - series XV

XV-2M

STANDARD GERMAN MOTOR
 ø80 FLANGE - TAPER SHAFT

X	2	M	51	25	F	R	R	E
Series	X	series XV						
Group	2	group 2						
Category	M	reversible motor						
Displacement	51	17						
Flange	25	Ø80 GERMAN STANDARDIZED reversible rotation (with OR)						
Shaft	F	CO002 - Tapered 1:5 - ø17.4 - M12x1.5 - key thk.3						
Body	IN	R	inlet - Ø35 a 45° Ø15 M6					
	OUT	R	outlet - Ø35 a 45° Ø15 M6					
Cover	E	with external drainage						



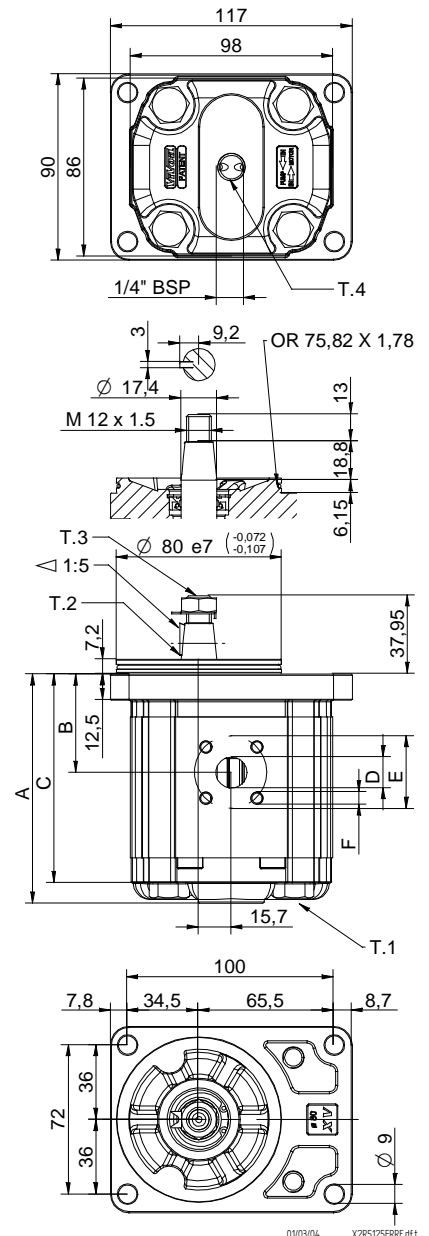
Reference **XM217**

Technical data table																					
TYPE	Displacement cm3/rev	Max. Pressure		CODE																	
		P1 bar	P3 bar	External drainage				Internal drainage													
XV-2M/04	4,20	260	300	X	2	M	41	25	F	R	R	E	X	2	M	41	25	F	R	R	F
XV-2M/06	6,00	260	300	X	2	M	43	25	F	R	R	E	X	2	M	43	25	F	R	R	F
XV-2M/09	8,40	260	300	X	2	M	45	25	F	R	R	E	X	2	M	45	25	F	R	R	F
XV-2M/11	10,80	260	300	X	2	M	47	25	F	R	R	E	X	2	M	47	25	F	R	R	F
XV-2M/14	14,40	250	290	X	2	M	49	25	F	R	R	E	X	2	M	49	25	F	R	R	F
XV-2M/17	16,80	230	270	X	2	M	51	25	F	R	R	E	X	2	M	51	25	F	R	R	F
XV-2M/19	19,20	210	250	X	2	M	53	25	F	R	R	E	X	2	M	53	25	F	R	R	F
XV-2M/22	22,80	200	240	X	2	M	55	25	F	R	R	E	X	2	M	55	25	F	R	R	F
XV-2M/26	26,20	170	210	X	2	M	57	25	F	S	S	E	X	2	M	57	25	F	S	S	F
XV-2M/30	30,00	160	200	X	2	M	59	25	F	S	S	E	X	2	M	59	25	F	S	S	F
XV-2M/34	34,20	150	190	X	2	M	61	25	F	S	S	E	X	2	M	61	25	F	S	S	F
XV-2M/40	39,60	140	180	X	2	M	63	25	F	S	S	E	X	2	M	63	25	F	S	S	F

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 kg	A	B	C	D	E	F	D	E	F
		mm	mm	mm	IN			OUT		
XV-2M/04	2,330	89,7	41,1	79,7	ø15	35	M6x1	ø15	35	M6x1
XV-2M/06	2,430	92,7	41,1	82,7	ø15	35	M6x1	ø15	35	M6x1
XV-2M/09	2,530	96,7	43,1	86,7	ø15	35	M6x1	ø15	35	M6x1
XV-2M/11	2,630	100,7	47,5	90,7	ø15	35	M6x1	ø15	35	M6x1
XV-2M/14	2,730	106,7	47,5	96,7	ø15	35	M6x1	ø15	35	M6x1
XV-2M/17	2,830	110,7	47,5	100,7	ø15	35	M6x1	ø15	35	M6x1
XV-2M/19	2,930	114,7	47,5	104,7	ø15	35	M6x1	ø15	35	M6x1
XV-2M/22	3,180	120,7	55,0	110,7	ø15	35	M6x1	ø15	35	M6x1
XV-2M/26	3,280	124,7	55,0	114,7	ø20	40	M6x1	ø20	40	M6x1
XV-2M/30	3,530	132,7	63,2	122,7	ø20	40	M6x1	ø20	40	M6x1
XV-2M/34	3,730	139,7	63,2	129,7	ø20	40	M6x1	ø20	40	M6x1
XV-2M/40	3,930	148,7	63,2	138,7	ø20	40	M6x1	ø20	40	M6x1



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

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

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

T.4 = 0.3÷0.5 bar - max. drainage pressure

reversible motor - series XV

XV-2M

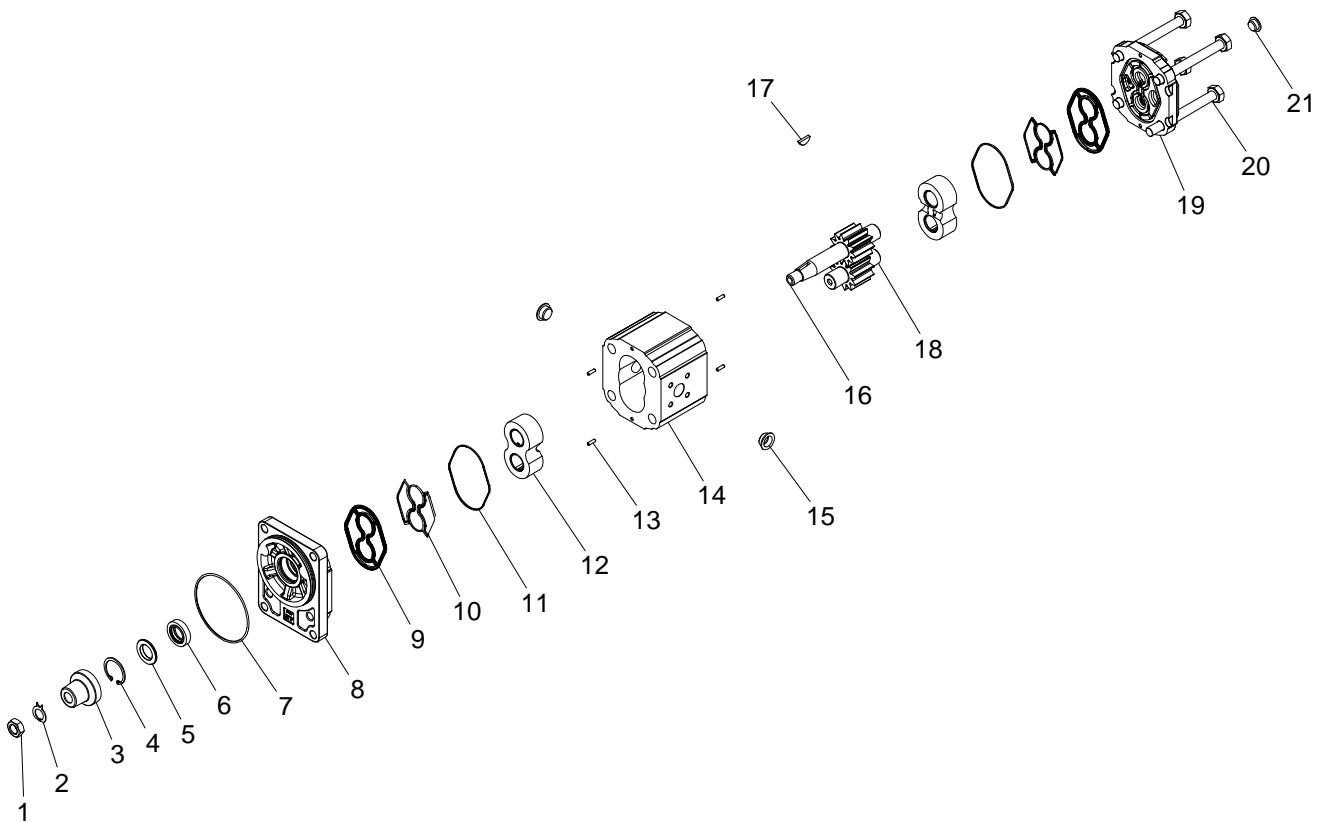
STANDARD GERMAN MOTOR
ø80 FLANGE - TAPER SHAFT

Reference

XM217

Example of ordering code:

X2M5125FRRE XV2M/17 - Ø80 /R - CO002 - Ø35 M6 # - Ø35 M6 # - Dren. est.



Basic list

Pos.	Item description	Item	Size	Quantity
1	NUT M12x1,5 H=7 CH.17	200.0157.A	0	1
2	TAB WASHER ø12,5xø19 - CO001-CO002 XV2	200.0150.A	0	1
3	KEY PROTECTION XV2	590.0010.A	0	1
4	ø29 INTERNAL SNAP RING DIN 472	560.0020.A	0	1
5	BACK UP WASHER OIL SEAL XV2M	200.0126.A	0	1
6	OIL SEAL 17.46 x 28.58 x 6.4 SCV	690.0105.A	0	1
7	OR 75.92 x 1.78	640.0130.A	0	1
8	XV2 ø80 BOSCH FLANGE	200.0239.A	0	1
9	INJECTION-MOLDED SEAL XV2 (NBR 70÷75 SH)	200.0190.C	0	2
10	XV2 BACK-UP ELEMENT FOR BALANCING	200.0191.A	0	2
11	EXTERNAL BACK-UP ELEMENT XV2	200.0194.A	0	2
12	KV2P BUSH H=20	200.0012.A	0	2
13	PIN ø3x9,8	570.0005.A	0	4
14	BOSCH FLANGED BODY 15 35-M6# - 15 35-M6# - cc=17	200.0091.A	H68	1
15	PLASTIC PLUG ø15,5	580.0001.A	D15,5	2
16	CO002 BOSCH - TAPERED 1÷5 DRIVING GEAR	200.0047.A	CC17	1
17	WOODRUFF KEY ø16x3 H=6,5	200.0142.A	0	1
18	COND2 - PERFORATED DRIVEN GEAR	200.0010.A	CC17	1
19	NEUTRAL XV2 COVER W/DRAINAGE 1/4" BSP	200.0008.X	F2ZZA	1
20	WHITE GALVANISED SCREW TE M10x95 UNI 5737 8.8	531.0010.A	L095	4
21	PLASTIC PLUG ø12	580.0001.A	D12	1

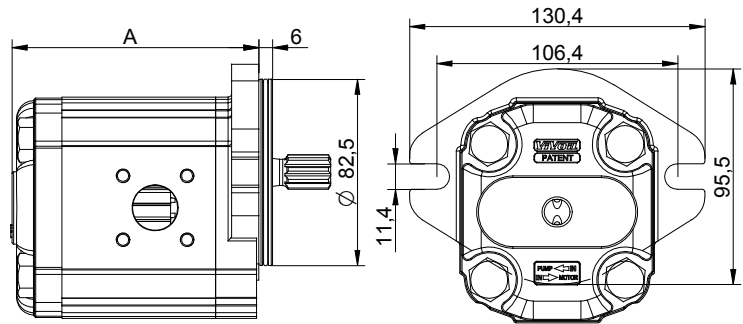
Table of variations

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

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



Series	X	series XV
Group	2	group 2
Category	M	reversible motor
Displacement		
Flange		
Shaft		
Body	IN OUT	
Cover		



ø82.5 FLANGE "SAE A"	
	Code
	31
	32

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

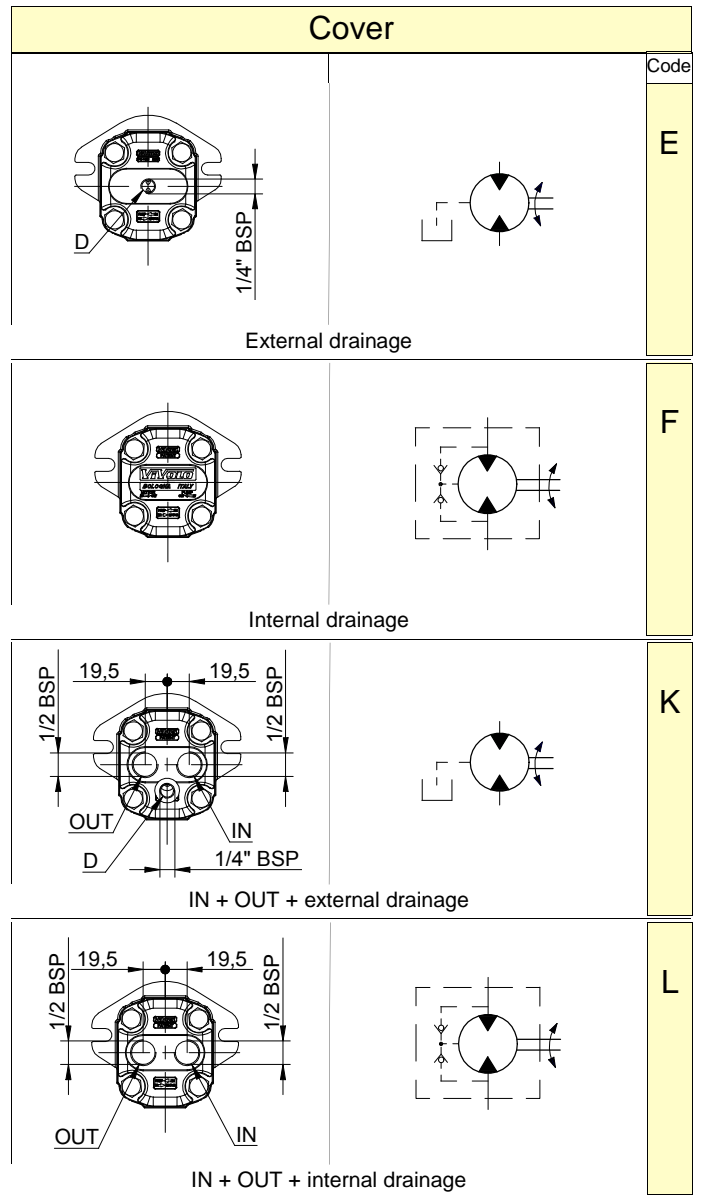
Table of variations

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

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

Table showing standard flange and thread combinations available in stock

Body (threads/flanges)				
Closed Body				Z

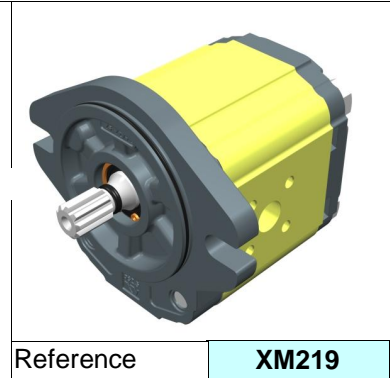


reversible motor - series XV

XV-2M

SAE A TYPE MOTOR
 ø82.5 FLANGE - SPLINED SHAFT

X	2	M	51	31	I	R	R	E
Series	X	series XV						
Group	2	group 2						
Category	M	reversible motor						
Displacement	51	17						
Flange	31	Ø82.5 SAE A reversible rotation (with OR)						
Shaft	I	SCF04 - Splined ø15.456 z=9, H=22.5 - SAE J498 9T 16/32DP						
Body	IN	R	inlet - Ø35 a 45° Ø15 M6					
	OUT	R	outlet - Ø35 a 45° Ø15 M6					
Cover	E	with external drainage						

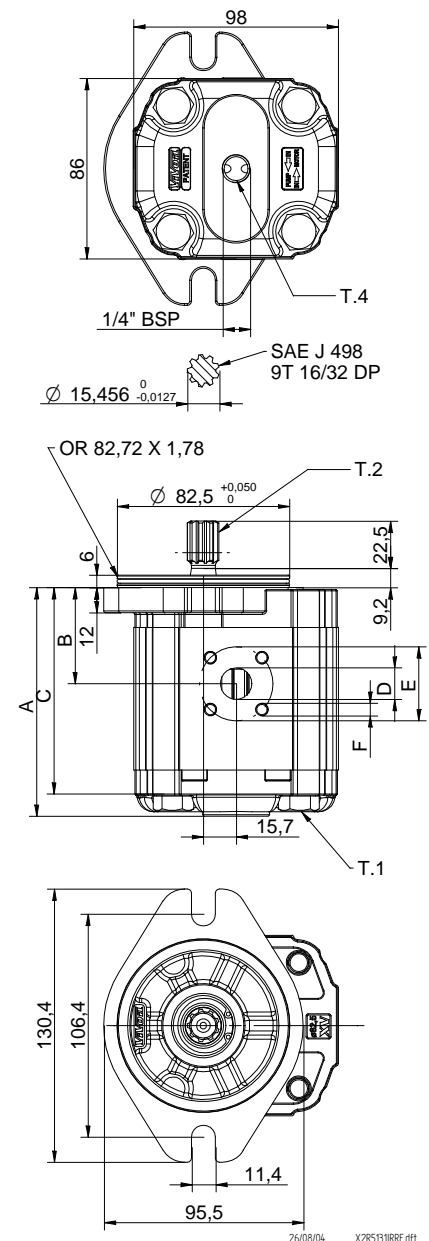


Reference **XM219**

Technical data table																					
TYPE	Displacement cm3/rev	Max. Pressure		CODE																	
		P1 bar	P3 bar	External drainage				Internal drainage													
XV-2M/04	4,20	260	300	X	2	M	41	31	I	R	R	E	X	2	M	41	31	I	R	R	F
XV-2M/06	6,00	260	300	X	2	M	43	31	I	R	R	E	X	2	M	43	31	I	R	R	F
XV-2M/09	8,40	260	300	X	2	M	45	31	I	R	R	E	X	2	M	45	31	I	R	R	F
XV-2M/11	10,80	260	300	X	2	M	47	31	I	R	R	E	X	2	M	47	31	I	R	R	F
XV-2M/14	14,40	250	290	X	2	M	49	31	I	R	R	E	X	2	M	49	31	I	R	R	F
XV-2M/17	16,80	230	270	X	2	M	51	31	I	R	R	E	X	2	M	51	31	I	R	R	F
XV-2M/19	19,20	210	250	X	2	M	53	31	I	R	R	E	X	2	M	53	31	I	R	R	F
XV-2M/22	22,80	200	240	X	2	M	55	31	I	R	R	E	X	2	M	55	31	I	R	R	F
XV-2M/26	26,20	170	210	X	2	M	57	31	I	S	S	E	X	2	M	57	31	I	S	S	F
XV-2M/30	30,00	160	200	X	2	M	59	31	I	S	S	E	X	2	M	59	31	I	S	S	F
XV-2M/34	34,20	150	190	X	2	M	61	31	I	S	S	E	X	2	M	61	31	I	S	S	F
XV-2M/40	39,60	140	180	X	2	M	63	31	I	S	S	E	X	2	M	63	31	I	S	S	F

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 kg	A	B	C	D	E	F	D	E	F
		mm	mm	mm	IN			OUT		
XV-2M/04	2,280	88,0	39,4	78,0	ø15	35	M6x1	ø15	35	M6x1
XV-2M/06	2,380	91,0	39,4	81,0	ø15	35	M6x1	ø15	35	M6x1
XV-2M/09	2,480	95,0	41,4	85,0	ø15	35	M6x1	ø15	35	M6x1
XV-2M/11	2,580	99,0	45,8	89,0	ø15	35	M6x1	ø15	35	M6x1
XV-2M/14	2,780	105,0	45,8	95,0	ø15	35	M6x1	ø15	35	M6x1
XV-2M/17	2,880	109,0	45,8	99,0	ø15	35	M6x1	ø15	35	M6x1
XV-2M/19	2,980	113,0	45,8	103,0	ø15	35	M6x1	ø15	35	M6x1
XV-2M/22	3,130	119,0	53,3	109,0	ø15	35	M6x1	ø15	35	M6x1
XV-2M/26	3,230	123,0	53,3	113,0	ø20	40	M6x1	ø20	40	M6x1
XV-2M/30	3,480	131,0	61,5	121,0	ø20	40	M6x1	ø20	40	M6x1
XV-2M/34	3,680	138,0	61,5	128,0	ø20	40	M6x1	ø20	40	M6x1
XV-2M/40	3,880	147,0	61,5	137,0	ø20	40	M6x1	ø20	40	M6x1



T.1 = 54÷58.9 [Nm] - screw tightening torque M10
 T.2 = 67.1 [Nm] - admissible shaft torque (N.B. When choosing a shaft, always check the admissible torque).
 T.4 = 0.3÷0.5 bar - max. drainage pressure

reversible motor - series XV

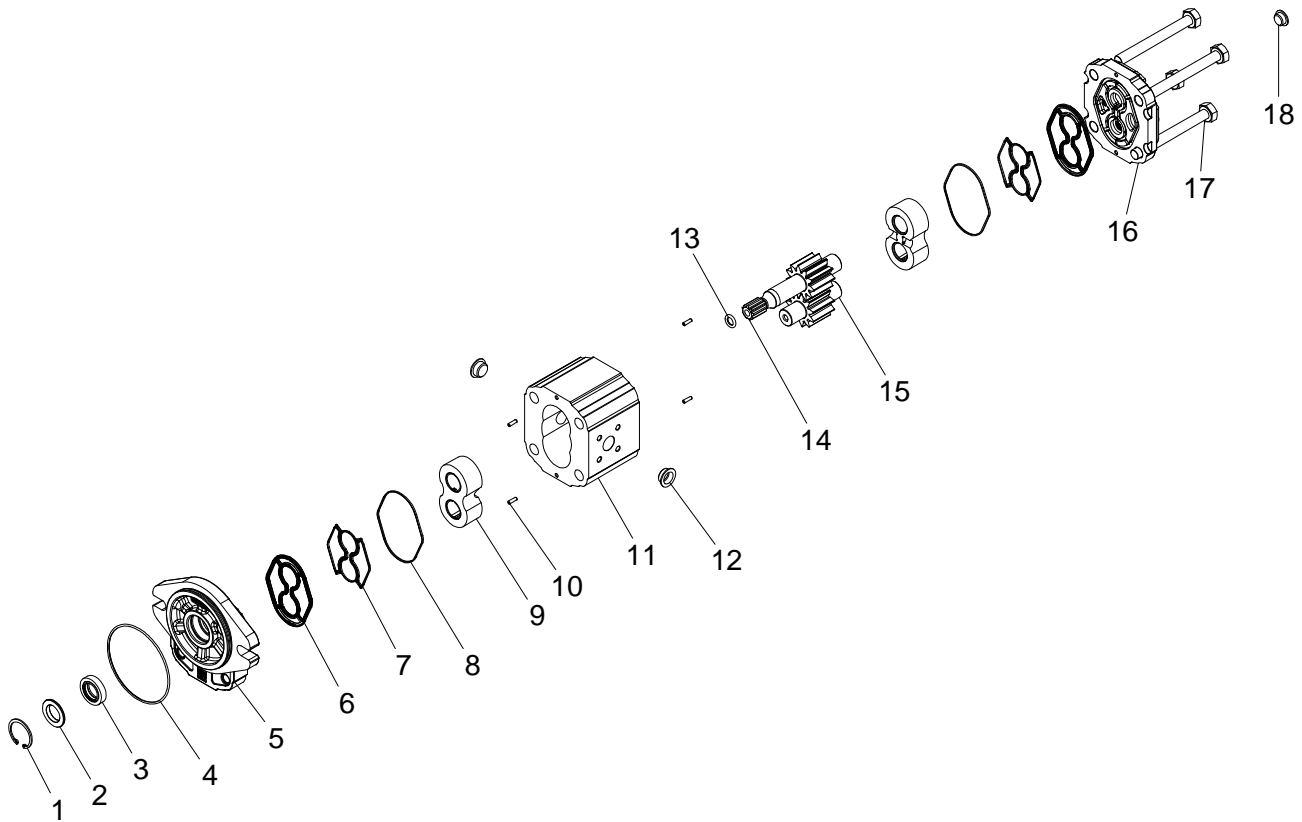
XV-2M

SAE A TYPE MOTOR
 ø82.5 FLANGE - SPLINED SHAFT

Reference **XM219**

Example of ordering code:

X2M5131IRRE XV2M/17 - Ø82.5 SAE /R - SCF04 - Ø35 M6 # - Ø35 M6 # - Dren. est.



Basic list				
Pos.	Item description	Item	Size	Quantity
1	ø29 INTERNAL SNAP RING DIN 472	560.0020.A	0	1
2	BACK UP WASHER OIL SEAL XV2M	200.0126.A	0	1
3	OIL SEAL 17.46 x 28.58 x 6.4 SCV	690.0105.A	0	1
4	OR 75.92 x 1.78	640.0130.A	0	1
5	XV2 ø82,5 SAE FLANGE	200.0250.A	0	1
6	INJECTION-MOLDED SEAL XV2 (NBR 70÷75 SH)	200.0190.C	0	2
7	XV2 BACK-UP ELEMENT FOR BALANCING	200.0191.A	0	2
8	EXTERNAL BACK-UP ELEMENT XV2	200.0194.A	0	2
9	KV2P BUSH H=20	200.0012.A	0	2
10	PIN ø3x9,8	570.0005.A	0	4
11	BOSCH FLANGED BODY 15 35-M6# - 15 35-M6# - cc=17	200.0091.A	H68	1
12	PLASTIC PLUG ø15,5	580.0001.A	D15,5	2
13	OR 10.78 x 2.62	650.0085.A	0	1
14	SCF04 SAE - SPLINED DRIVING GEAR	200.0073.A	CC17	1
15	COND2 - PERFORATED DRIVEN GEAR	200.0010.A	CC17	1
16	NEUTRAL XV2 COVER W/DRAINAGE 1/4" BSP	200.0008.X	F2ZZA	1
17	WHITE GALVANISED SCREW TE M10x95 UNI 5737 8.8	531.0010.A	L095	4
18	PLASTIC PLUG ø12	580.0001.A	D12	1