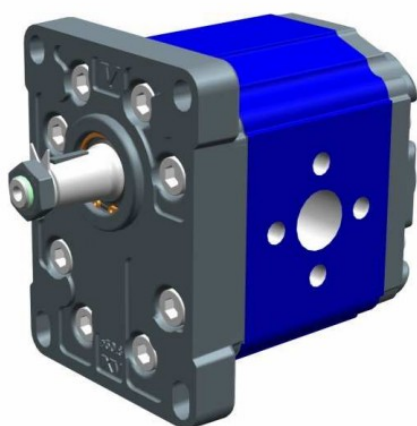


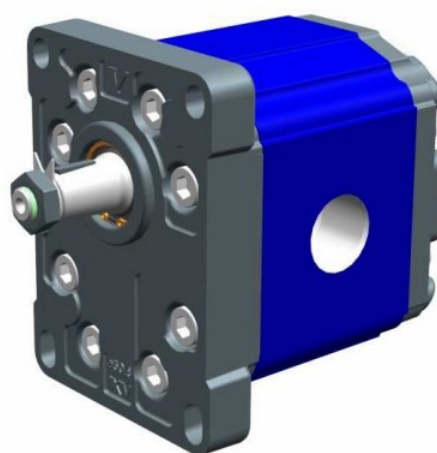
ZUBOVÉ HYDROMOTORY

ŘADY XV-3U / XV-3M

XU301 / XM301



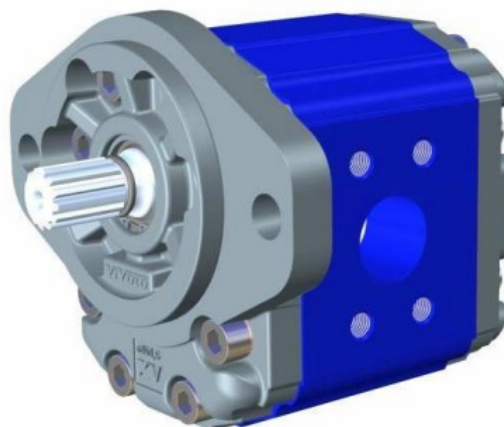
XU302 / XM302



XU331 / XM331



XU332 / XM332



Jednosměrné hydromotory XV-3U

XV-3U



XU301

STANDARD EUROPEAN MOTOR

ø50.8 FLANGE - TAPER SHAFT

64



XU302

STANDARD EUROPEAN MOTOR

ø50.8 FLANGE - TAPER SHAFT

66



XU331

SAE B TYPE MOTOR

ø101.6 FLANGE - SPLINED SHAFT

68



XU332

SAE B TYPE MOTOR

ø101.6 FLANGE - SPLINED SHAFT

70

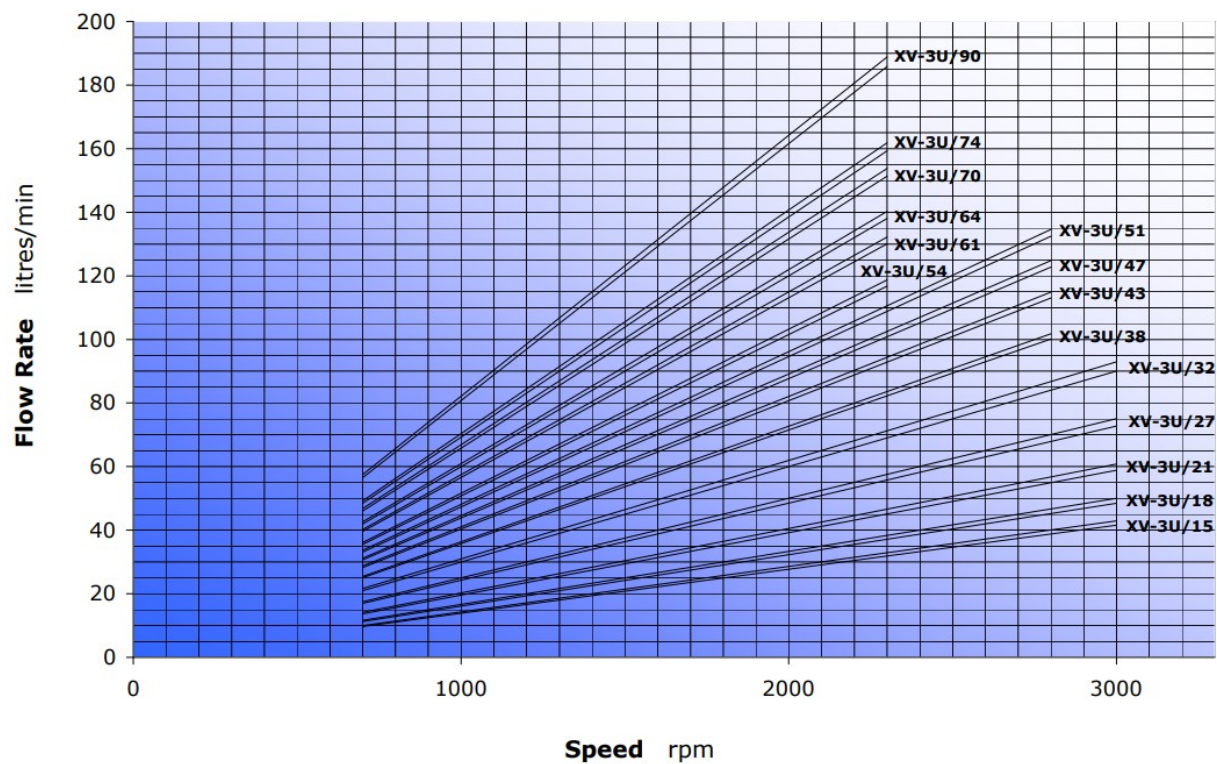
XV-3U	XV-3U/15	14.89 cm ³ /rev	20,14 Nm	2,11 KW	320 bar	6 bar	20 bar	700 rev/min	3000 rev/min
	XV-3U/18	17.37 cm ³ /rev	23,50 Nm	2,46 KW	320 bar	6 bar	20 bar	700 rev/min	3000 rev/min
	XV-3U/21	21.10 cm ³ /rev	28,54 Nm	2,99 KW	300 bar	6 bar	15 bar	700 rev/min	3000 rev/min
	XV-3U/27	26.97 cm ³ /rev	36,49 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	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	Flow rate l/min
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			

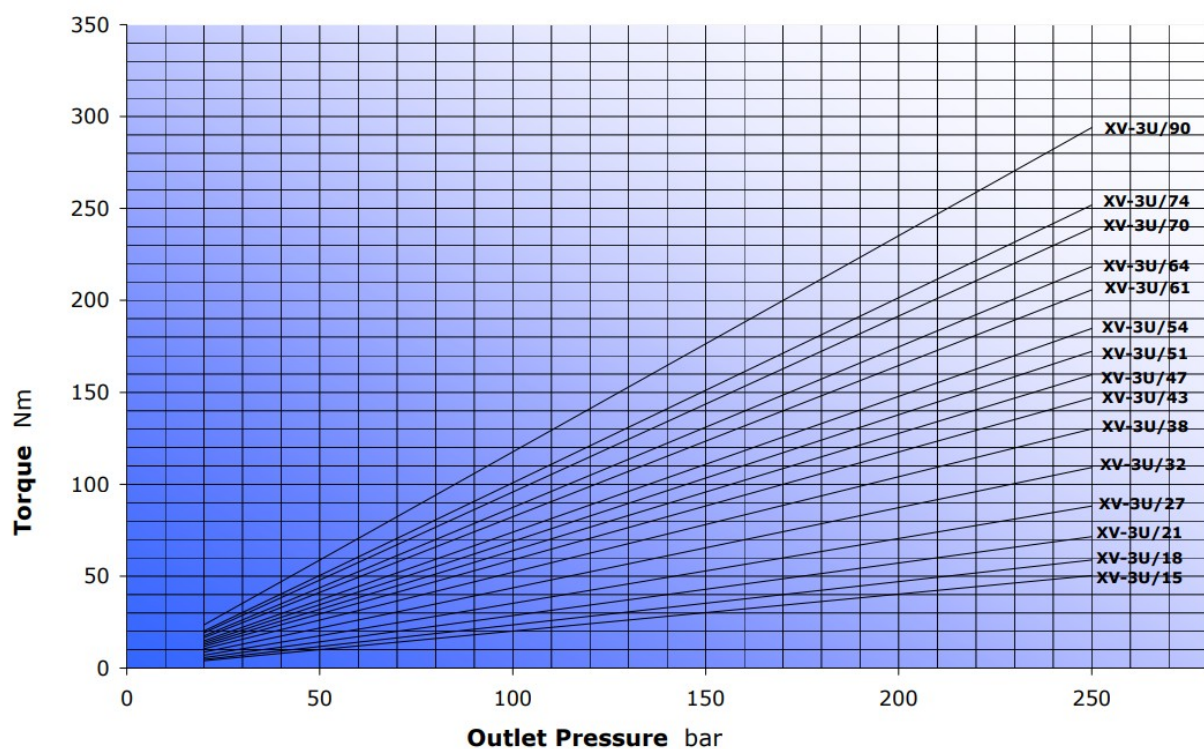
General technical data

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. inlet fluid pressure (OUT)	0.3 - 0.5 bars (for higher pressures consult the manufacturer)
Inlet fluid filtering (IN)	30 - 60 Microns
Outlet fluid filtering (OUT)	10 - 25 Microns
Max. inlet fluid speed (IN)	0.5 - 1.5 m/s
Max. outlet fluid speed (OUT)	3.0 - 5.5m/s

XV-3U CHARACTERISTIC FLOW RATE CURVES



XV-3U MOTOR TORQUE



Reverzační hydromotory XV-3M

XV-3M



XM301

STANDARD EUROPEAN MOTOR

ø50.8 FLANGE - TAPER SHAFT

52



XM302

STANDARD EUROPEAN MOTOR

ø50.8 FLANGE - TAPER SHAFT

54



XM331

SAE B TYPE MOTOR

ø101.6 FLANGE - SPLINED SHAFT

56



XM332

SAE B TYPE MOTOR

ø101.6 FLANGE - SPLINED SHAFT

58

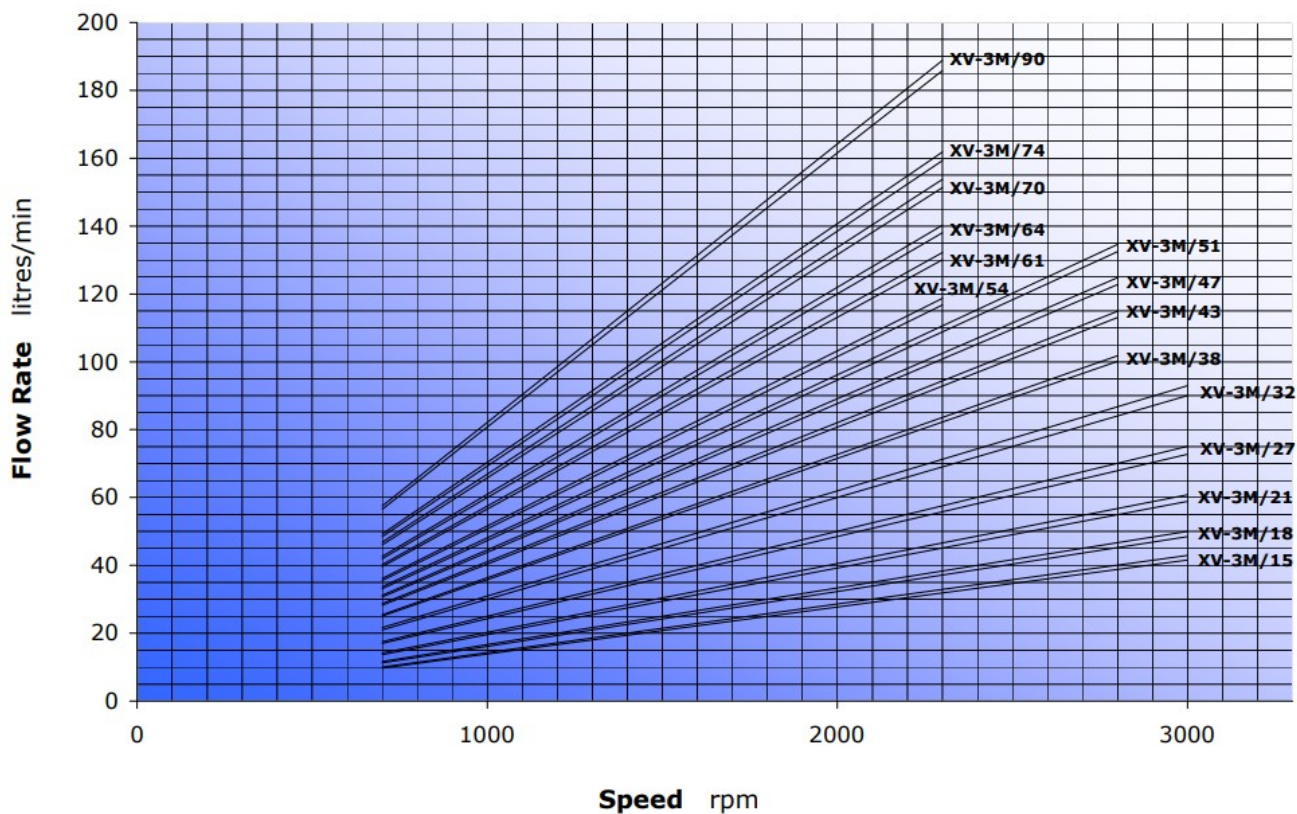
XV-3M	XV-3M/15	14.89 cm ³ /rev	20,14 Nm	2,11 KW	320 bar	6 bar	20 bar	700 rev/min	3000 rev/min
	XV-3M/18	17.37 cm ³ /rev	23,50 Nm	2,46 KW	320 bar	6 bar	20 bar	700 rev/min	3000 rev/min
	XV-3M/21	21.10 cm ³ /rev	28,54 Nm	2,99 KW	300 bar	6 bar	15 bar	700 rev/min	3000 rev/min
	XV-3M/27	26.97 cm ³ /rev	36,49 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

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

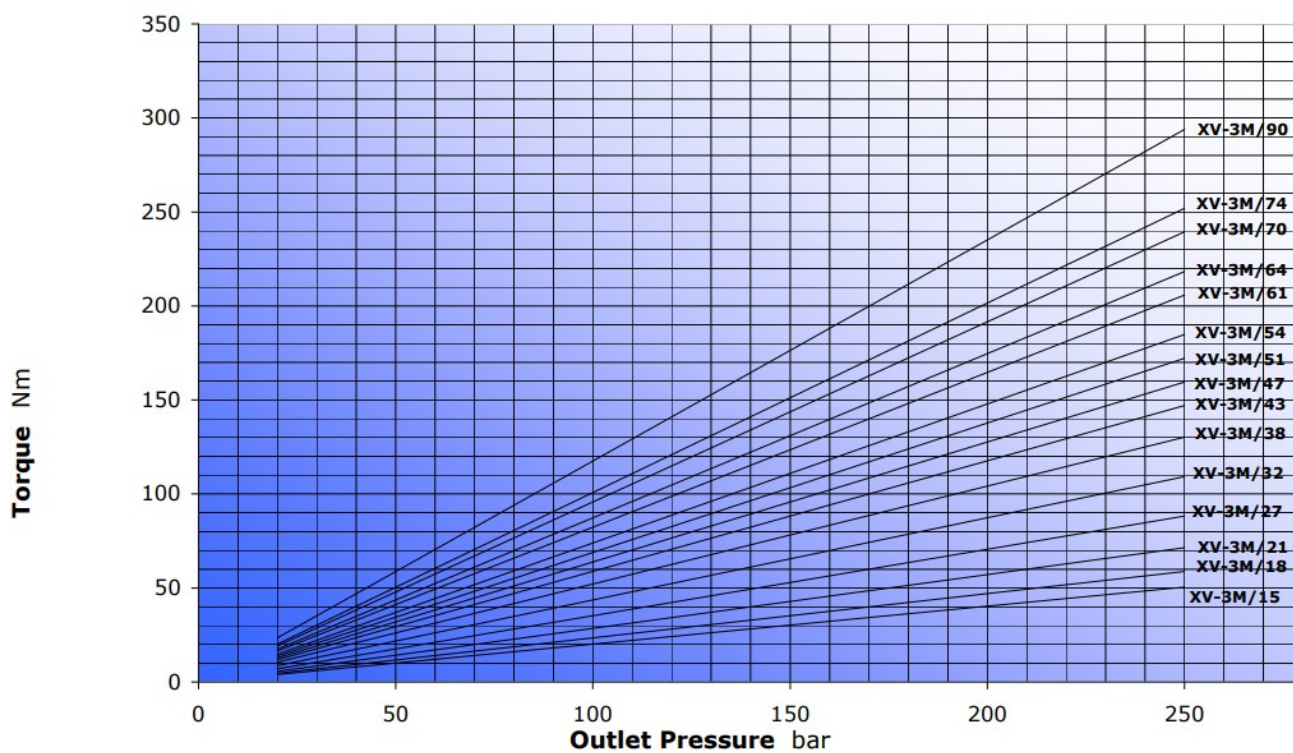
General technical data

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

XV-3M CHARACTERISTIC FLOW RATE CURVES



XV-3M MOTOR TORQUE

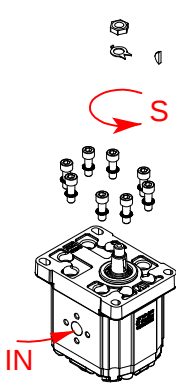
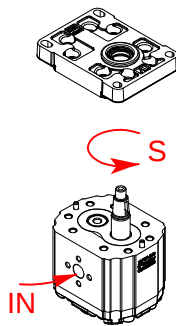
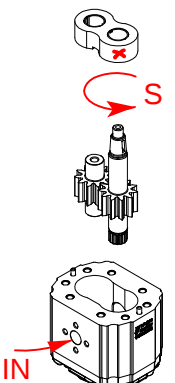
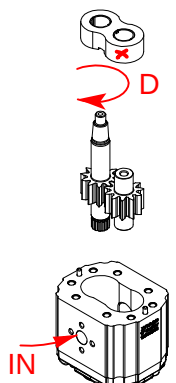
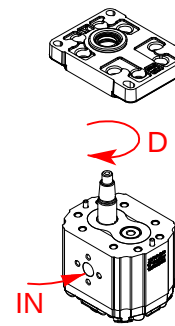
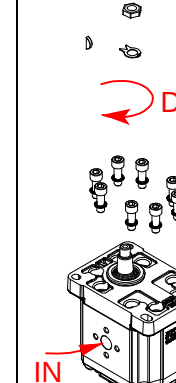


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XV3-U with Flange ø50,8 (ref. da XU- 301 a: XU- 302)

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

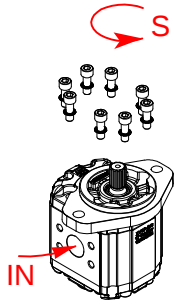
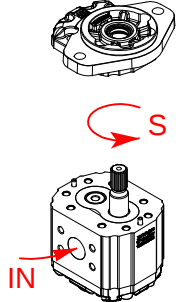
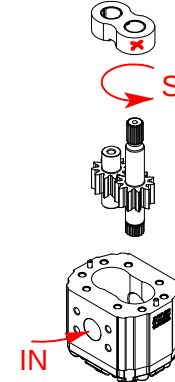
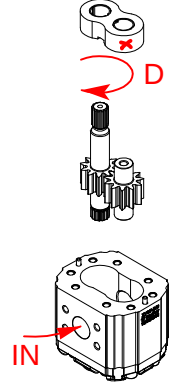
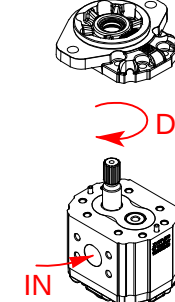
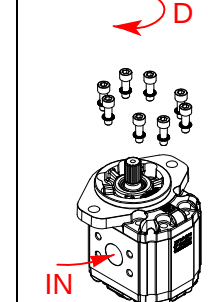
When disassembling and reassembling the motor, take special care to ensure that seals and back-up rings do not come out of place and that no foreign bodies, such as shavings or dirt in general, get inside the motor.

Flange ø50,8					
					
Remove the key, nut and washer from the shaft. Loosen and remove the fastening screws.	Take off the flange.	Take out the gears and upper bush. Warning!! The bush must never be turned.	Invert the positions of the driven and driving shafts. Warning! The body and cover must not be turned. Use the marking on the body as your reference.	Fit the previously removed flange back in place taking care to clean the body-base contact surfaces.	Replace the screws and tighten the nuts with a torque of 60 Nm to 65 Nm. Check that the shaft turns on completing the operation.
Note: with this rotation change system, the inlets and outlets remain unchanged.					

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

When changing the direction of rotation of the XV-3P 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 ø101,6-SAE -B					
					
Loosen and remove the fastening screws.	Take off the flange.	Take out the gears and upper bush. Warning!! The bush must never be turned.	Invert the positions of the driven and driving shafts. Warning! The body and cover must not be turned. Use the marking on the body as your reference.	Fit the previously removed flange back in place taking care to clean the body-base contact surfaces.	Replace the screws and tighten the nuts with a torque of 60 Nm to 65 Nm. Check that the shaft turns on completing the operation.
Note: with this rotation change system, the inlets and outlets remain unchanged.					

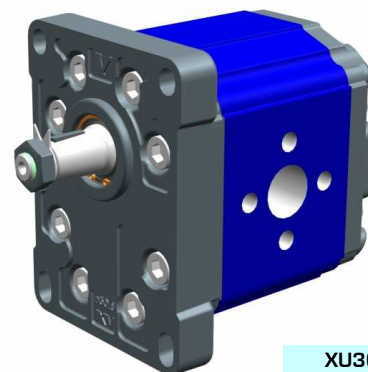
unidirectional motor - series XV

STANDARD EUROPEAN MOTOR
ø50.8 FLANGE - TAPER SHAFT

XV-3U

X	3	U	78	02	A	B	B	A
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Series	X	series XV
Group	3	group 3
Category	U	unidirectional motor
Displacement	78	38
Flange	02	Ø50.8 right rotation
Shaft	A	C0001 - Tapered 1:8 - ø22 - key thk.4
Body	IN	B inlet - Ø51 Ø27 M10
	OUT	B outlet - Ø51 Ø27 M10
Cover	A	standard



XU301

Technical data table

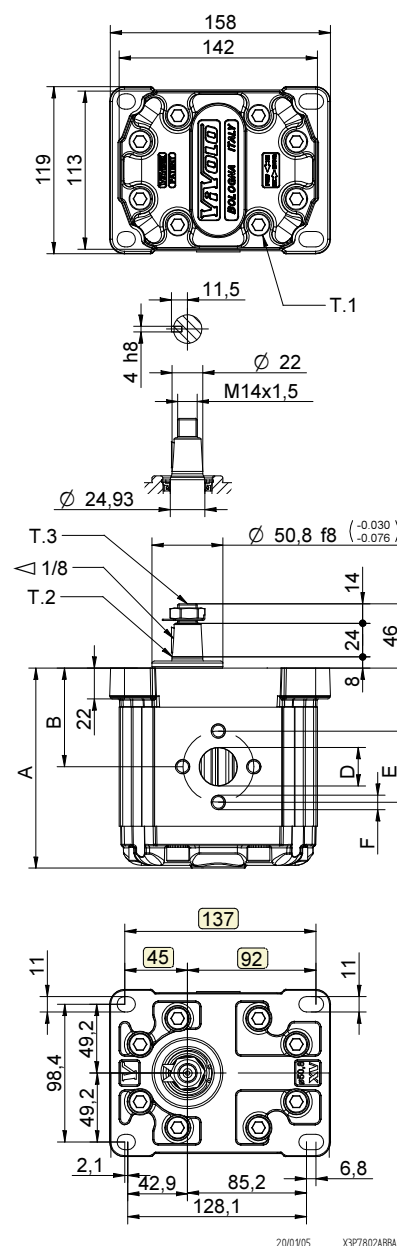
TYPE	Displacement cm ³ /rev	Max. Pressure		CODE	
		P1 bar	P3 bar	Left rotation	Right rotation
XV-3U/15	14,89	300	320	X 3 U 66 01 A A A A	X 3 U 66 02 A A A A
XV-3U/18	17,37	300	320	X 3 U 68 01 A A A A	X 3 U 68 02 A A A A
XV-3U/21	21,10	280	300	X 3 U 70 01 A A A A	X 3 U 70 02 A A A A
XV-3U/27	26,97	250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

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

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

Dimensions table

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



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

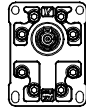
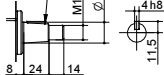
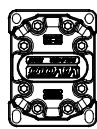
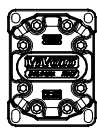
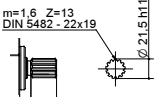
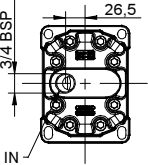
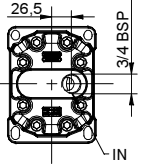
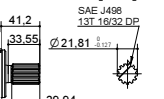
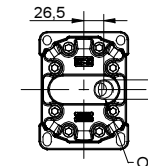
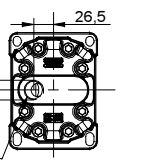
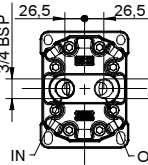
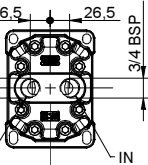
T.3 = 75 [Nm] - torque wrench setting 22

T.2 = 482 [Nm] - admissible shaft torque (N.B. When choosing a shaft, always check the admissible torque).

Table of variations

XV-3U

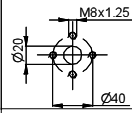
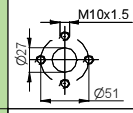
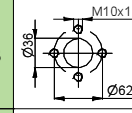
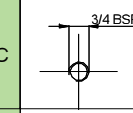
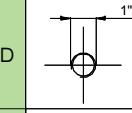
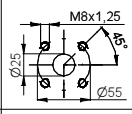
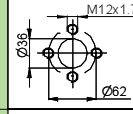
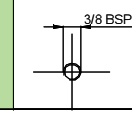
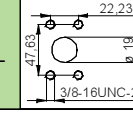
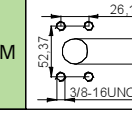
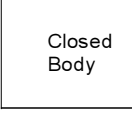
ø50.8 FLANGE

ø50.8 FLANGE				Shaft		Cover		
Left rotation		Right rotation				Left rotation	Right rotation	
	01		02	CO001 - Tapered T.2 = 482 [Nm] 	A			A
				CI004 - Parallel T.2 = 180 [Nm] 	C			B
				SCF04 - Splined T.2 = 264 [Nm] 	I			C
					H			D

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

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

Table showing standard flange and thread combinations available in stock

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

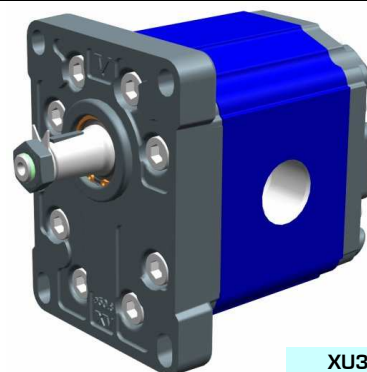
unidirectional motor - series XV

STANDARD EUROPEAN MOTOR
ø50.8 FLANGE - TAPER SHAFT

XV-3U

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



XU302

Technical data table

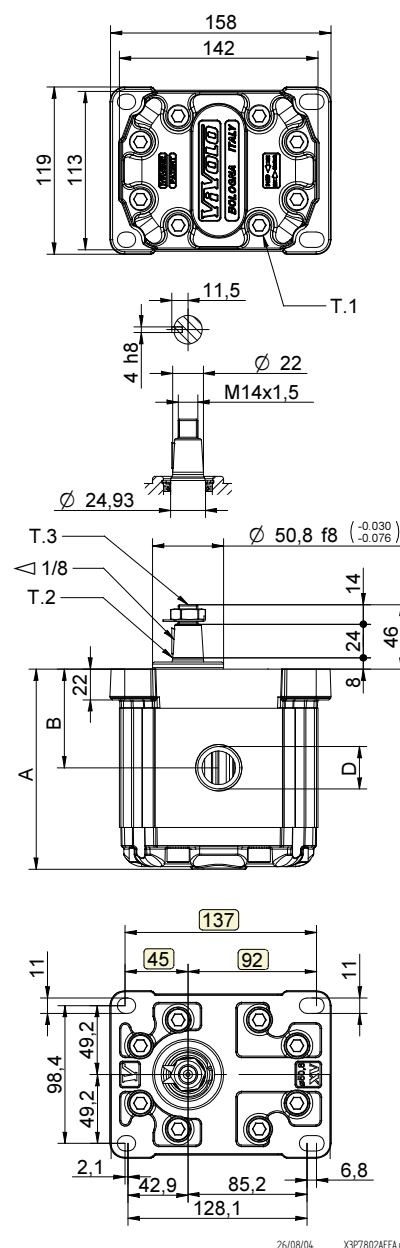
TYPE	Displacement cm3/rev	Max. Pressure		CODE	
		P1 bar	P3 bar	Left rotation	Right rotation
XV-3U/15	14,89	300	320	X 3 U 66 01 A D D A	X 3 U 66 02 A D D A
XV-3U/18	17,37	300	320	X 3 U 68 01 A D D A	X 3 U 68 02 A D D A
XV-3U/21	21,10	280	300	X 3 U 70 01 A D D A	X 3 U 70 02 A D D A
XV-3U/27	26,97	250	270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

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

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

Dimensions table

TYPE	Weight	A	B	D	D
	kg	mm	mm	IN	OUT
XV-3U/15	7,010	124,0	61,0	3/4" BSPP	3/4" BSPP
XV-3U/18	7,070	126,0	62,0	3/4" BSPP	3/4" BSPP
XV-3U/21	7,150	129,0	63,5	3/4" BSPP	3/4" BSPP
XV-3U/27	7,250	133,0	65,5	1" BSPP	1" BSPP
XV-3U/32	7,390	138,0	68,0	1" BSPP	1" BSPP
XV-3U/38	7,520	143,0	70,5	1" BSPP	1" BSPP
XV-3U/43	7,630	147,0	72,5	1" BSPP	1" BSPP
XV-3U/47	7,710	150,0	74,0	1" BSPP	1" BSPP
XV-3U/51	7,790	153,0	75,5	1" BSPP	1" BSPP
XV-3U/54	7,870	156,0	77,0	1" BSPP	1" BSPP
XV-3U/61	8,010	161,0	79,5	1" 1/4 BSPP	1" 1/4 BSPP
XV-3U/64	8,090	164,0	81,0	1" 1/4 BSPP	1" 1/4 BSPP
XV-3U/70	8,220	169,0	83,5	1" 1/4 BSPP	1" 1/4 BSPP
XV-3U/74	8,300	172,0	85,0	1" 1/4 BSPP	1" 1/4 BSPP
XV-3U/90	8,570	182,0	90,0	1" 1/4 BSPP	1" 1/4 BSPP



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

T.3 = 75 [Nm] - torque wrench setting 22

T.2 = 482 [Nm] - admissible shaft torque (N.B. When choosing a shaft, always check the admissible torque).

Table of variations

XV-3U

ø50.8 FLANGE

ø50.8 FLANGE				Shaft		Cover		
Left rotation		Right rotation				Left rotation	Right rotation	
	01		02	CO001 - Tapered T.2 = 482 [Nm] 	A			A
				CI004 - Parallel T.2 = 180 [Nm] 	H			B
				SCF04 - Splined T.2 = 264 [Nm] 	I			C
								D

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

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

Table showing standard flange and thread combinations available in stock

Body (threads/flanges)									
	A		B		C		D		E
	H		I		L		M		N
	O		P		Z				

unidirectional motor - series XV

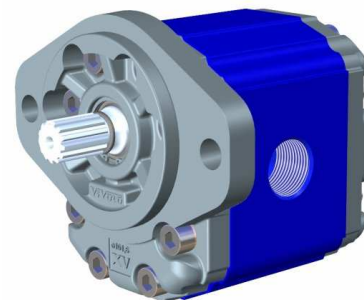
XV-3U

SAE B TYPE MOTOR

ø101.6 FLANGE - SPLINED SHAFT

X 3 U 78 32 I E E A

Series	X	series XV
Group	3	group 3
Category	U	unidirectional motor
Displacement	78	38
Flange	32	Ø101.6 SAE B right rotation
Shaft	I	SCF04 - Splined ø21.81 z=13, H=33.55 SAE J498-13T -16/32DP (SAE B)
Body	IN	E inlet - 1" BSP
	OUT	E outlet - 1" BSP
Cover	A	standard



XU331

Technical data table

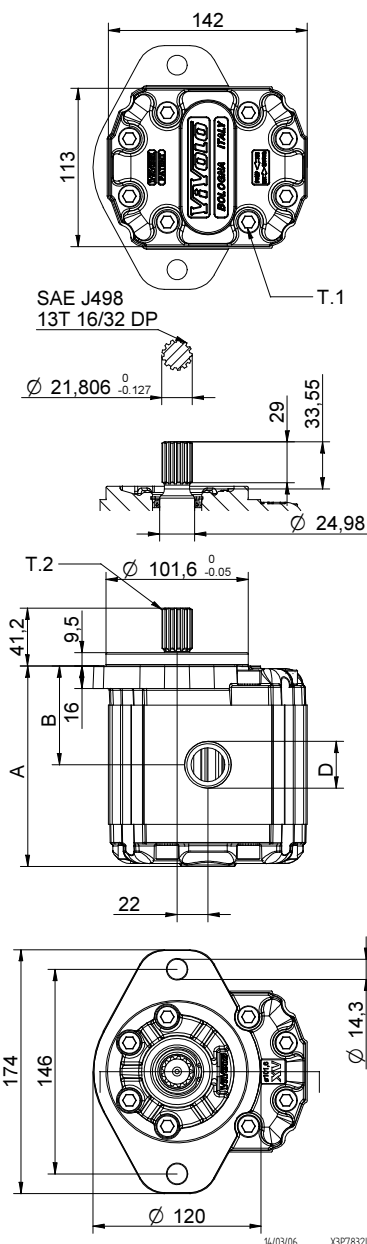
TYPE	Displacement cm3/rev	Max. Pressure		CODE	
		P1 bar	P3 bar	Left rotation	Right rotation
XV-3U/15	14,89	250	270	X 3 U 66 31 I D D A	X 3 U 66 32 I D D A
XV-3U/18	17,37	250	270	X 3 U 68 31 I D D A	X 3 U 68 32 I D D A
XV-3U/21	21,10	250	270	X 3 U 70 31 I D D A	X 3 U 70 32 I D D A
XV-3U/27	26,97	250	270	X 3 U 72 31 I E E A	X 3 U 72 32 I E E A
XV-3U/32	32,27	250	270	X 3 U 74 31 I E E A	X 3 U 74 32 I E E A
XV-3U/38	38,47	250	270	X 3 U 78 31 I E E A	X 3 U 78 32 I E E A
XV-3U/43	43,44	250	270	X 3 U 79 31 I E E A	X 3 U 79 32 I E E A
XV-3U/47	47,16	230	250	X 3 U 80 31 I E E A	X 3 U 80 32 I E E A
XV-3U/51	50,88	230	250	X 3 U 81 31 I E E A	X 3 U 81 32 I E E A
XV-3U/54	54,60	230	250	X 3 U 82 31 I E E A	X 3 U 82 32 I E E A
XV-3U/61	60,81	230	250	X 3 U 83 31 I F F A	X 3 U 83 32 I F F A
XV-3U/64	64,53	210	230	X 3 U 85 31 I F F A	X 3 U 85 32 I F F A
XV-3U/70	70,74	200	220	X 3 U 86 31 I F F A	X 3 U 86 32 I F F A
XV-3U/74	74,46	180	200	X 3 U 87 31 I F F A	X 3 U 87 32 I F F A
XV-3U/90	86,87	150	170	X 3 U 89 31 I F F A	X 3 U 89 32 I F F A

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

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

Dimensions table

TYPE	Weight	A	B	D	D
	kg	mm	mm	IN	OUT
XV-3U/15	7,010	124,0	61,0	3/4" BSPP	3/4" BSPP
XV-3U/18	7,070	126,0	62,0	3/4" BSPP	3/4" BSPP
XV-3U/21	7,150	129,0	63,5	3/4" BSPP	3/4" BSPP
XV-3U/27	7,250	133,0	65,5	1" BSPP	1" BSPP
XV-3U/32	7,390	138,0	68,0	1" BSPP	1" BSPP
XV-3U/38	7,520	143,0	70,5	1" BSPP	1" BSPP
XV-3U/43	7,630	147,0	72,5	1" BSPP	1" BSPP
XV-3U/47	7,710	150,0	74,0	1" BSPP	1" BSPP
XV-3U/51	7,790	153,0	75,5	1" BSPP	1" BSPP
XV-3U/54	7,870	156,0	77,0	1" BSPP	1" BSPP
XV-3U/61	8,010	161,0	79,5	1" 1/4 BSPP	1" 1/4 BSPP
XV-3U/64	8,090	164,0	81,0	1" 1/4 BSPP	1" 1/4 BSPP
XV-3U/70	8,220	169,0	83,5	1" 1/4 BSPP	1" 1/4 BSPP
XV-3U/74	8,300	172,0	85,0	1" 1/4 BSPP	1" 1/4 BSPP
XV-3U/90	8,570	182,0	90,0	1" 1/4 BSPP	1" 1/4 BSPP



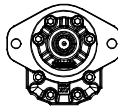
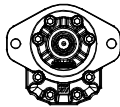
T.1 = 60÷65 [Nm] - screw tightening torque M10

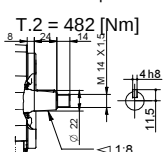
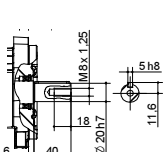
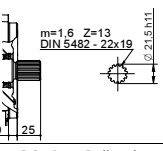
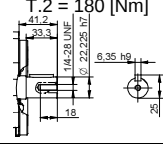
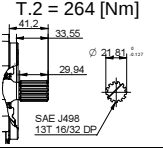
T.2 = 264 [Nm] - admissible shaft torque (N.B. When choosing a shaft, always check the admissible torque).

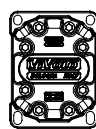
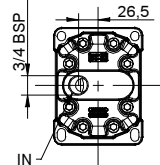
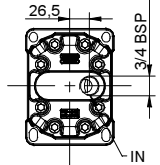
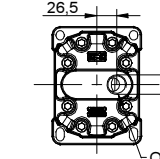
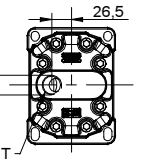
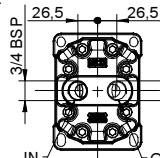
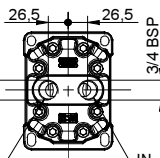
Table of variations

XV-3U

ø101.6 FLANGE ""SAE B""

ø101.6 FLANGE ""SAE B""				
Left rotation			Right rotation	
		31		

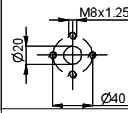
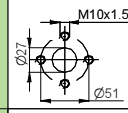
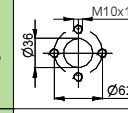
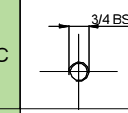
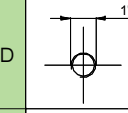
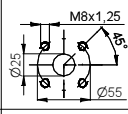
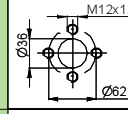
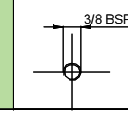
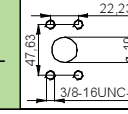
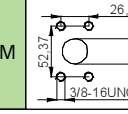
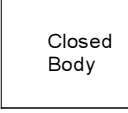
Shaft				
CO001 - Tapered T.2 = 482 [Nm] 		A	B 	
CI004 - Parallel T.2 = 180 [Nm] 		C	H 	
SCF04 - Splined T.2 = 264 [Nm] 		I		

Cover				
Left rotation			Right rotation	
				
				
				
				

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

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

Table showing standard flange and thread combinations available in stock

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

unidirectional motor - series XV

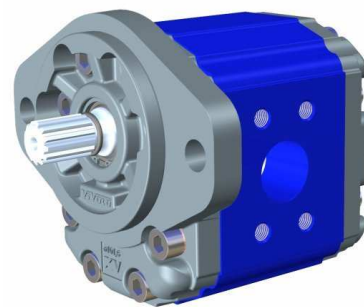
XV-3U

SAE B TYPE MOTOR

Ø101.6 FLANGE - SPLINED SHAFT

X 3 U 78 32 I O O A

Series	X	series XV
Group	3	group 3
Category	U	unidirectional motor
Displacement	78	38
Flange	32	Ø101.6 SAE B right rotation
Shaft	I	SCF04 - Splined Ø21.81 z=13, H=33.55 SAE J498-13T -16/32DP (SAE B)
Body	IN	O inlet - SAE 30,18 X 58,72 - Ø32 - 7/16-14UNC-2B
	OUT	O outlet - SAE 30,18 X 58,72 - Ø32 - 7/16-14UNC-2B
Cover	A	standard



XU332

Technical data table

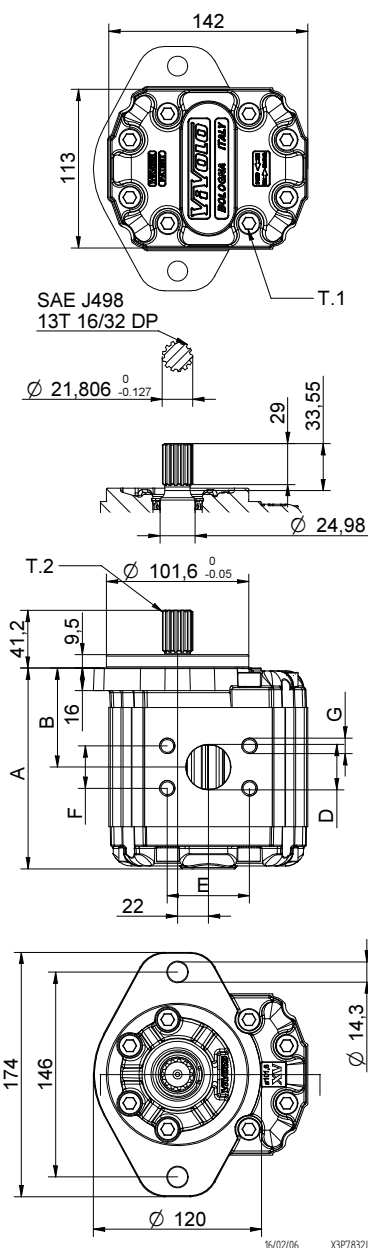
TYPE	Displacement cm3/rev	Max. Pressure		CODE	
		P1 bar	P3 bar	Left rotation	Right rotation
XV-3U/15	14,89	250	270	X 3 U 66 31 I N N A	X 3 U 66 32 I N N A
XV-3U/18	17,37	250	270	X 3 U 68 31 I N N A	X 3 U 68 32 I N N A
XV-3U/21	21,10	250	270	X 3 U 70 31 I N N A	X 3 U 70 32 I N N A
XV-3U/27	26,97	250	270	X 3 U 72 31 I N N A	X 3 U 72 32 I N N A
XV-3U/32	32,27	250	270	X 3 U 74 31 I O O A	X 3 U 74 32 I O O A
XV-3U/38	38,47	250	270	X 3 U 78 31 I O O A	X 3 U 78 32 I O O A
XV-3U/43	43,44	250	270	X 3 U 79 31 I O O A	X 3 U 79 32 I O O A
XV-3U/47	47,16	230	250	X 3 U 80 31 I O O A	X 3 U 80 32 I O O A
XV-3U/51	50,88	230	250	X 3 U 81 31 I O O A	X 3 U 81 32 I O O A
XV-3U/54	54,60	230	250	X 3 U 82 31 I O O A	X 3 U 82 32 I O O A
XV-3U/61	60,81	230	250	X 3 U 83 31 I P P A	X 3 U 83 32 I P P A
XV-3U/64	64,53	210	230	X 3 U 85 31 I P P A	X 3 U 85 32 I P P A
XV-3U/70	70,74	200	220	X 3 U 86 31 I P P A	X 3 U 86 32 I P P A
XV-3U/74	74,46	180	200	X 3 U 87 31 I P P A	X 3 U 87 32 I P P A
XV-3U/90	86,87	150	170	X 3 U 89 31 I P P A	X 3 U 89 32 I P P A

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

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

Dimensions table

TYPE	Weight	A	B	D	E	F	G
	kg	mm	mm	IN - OUT			
XV-3U/15	7,010	124,0	61,0	Ø25	52,37	26,19	3/8-16UNC-2B
XV-3U/18	7,070	126,0	62,0	Ø25	52,37	26,19	3/8-16UNC-2B
XV-3U/21	7,150	129,0	63,5	Ø25	52,37	26,19	3/8-16UNC-2B
XV-3U/27	7,250	133,0	65,5	Ø25	52,37	26,19	3/8-16UNC-2B
XV-3U/32	7,390	138,0	68,0	Ø32	58,72	30,18	7/16-14UNC-2B
XV-3U/38	7,520	143,0	70,5	Ø32	58,72	30,18	7/16-14UNC-2B
XV-3U/43	7,630	147,0	72,5	Ø32	58,72	30,18	7/16-14UNC-2B
XV-3U/47	7,710	150,0	74,0	Ø32	58,72	30,18	7/16-14UNC-2B
XV-3U/51	7,790	153,0	75,5	Ø32	58,72	30,18	7/16-14UNC-2B
XV-3U/54	7,870	156,0	77,0	Ø32	58,72	30,18	7/16-14UNC-2B
XV-3U/61	8,010	161,0	79,5	Ø38	69,85	35,71	1/2-13UNC-2B
XV-3U/64	8,090	164,0	81,0	Ø38	69,85	35,71	1/2-13UNC-2B
XV-3U/70	8,220	169,0	83,5	Ø38	69,85	35,71	1/2-13UNC-2B
XV-3U/74	8,300	172,0	85,0	Ø38	69,85	35,71	1/2-13UNC-2B
XV-3U/90	8,570	182,0	90,0	Ø38	69,85	35,71	1/2-13UNC-2B



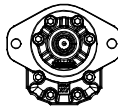
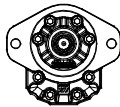
T.1 = 60÷65 [Nm] - screw tightening torque M10

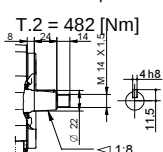
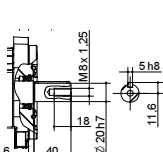
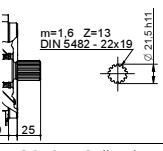
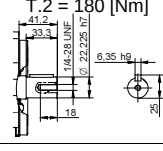
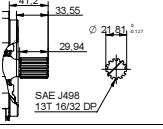
T.2 = 264 [Nm] - admissible shaft torque (N.B. When choosing a shaft, always check the admissible torque).

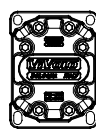
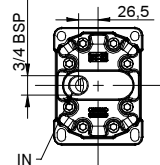
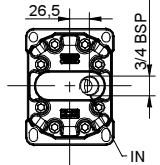
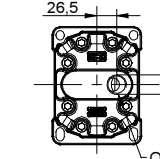
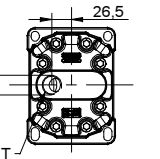
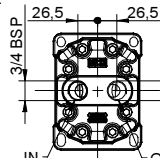
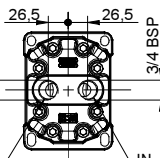
Table of variations

XV-3U

ø101.6 FLANGE ""SAE B""

ø101.6 FLANGE ""SAE B""				
Left rotation			Right rotation	
		31		

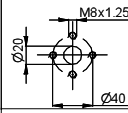
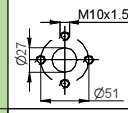
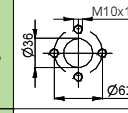
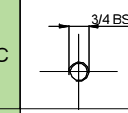
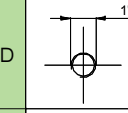
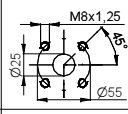
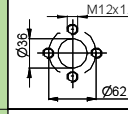
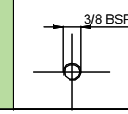
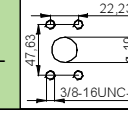
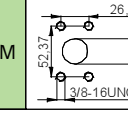
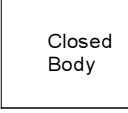
Shaft				
CO001 - Tapered T.2 = 482 [Nm] 		A	B 	
CI004 - Parallel T.2 = 180 [Nm] 		C	H 	
SCF04 - Splined T.2 = 264 [Nm] 		I		

Cover				
Left rotation			Right rotation	
				
				
				
				

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

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

Table showing standard flange and thread combinations available in stock

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

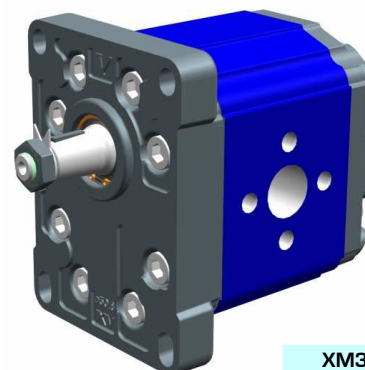
reversible motor - series XV

STANDARD EUROPEAN MOTOR
ø50.8 FLANGE - TAPER SHAFT

XV-3M

X 3 M 78 01 A B B E

Series	X	series XV
Group	3	group 3
Category	M	reversible motor
Displacement	78	38
Flange	01	Ø50.8 reversible rotation
Shaft	A	C0001 - Tapered 1:8 - ø22 - key thk.4
Body	IN	B inlet - Ø51 Ø27 M10
	OUT	B outlet - Ø51 Ø27 M10
Cover	E	with external drainage



XM301

Technical data table

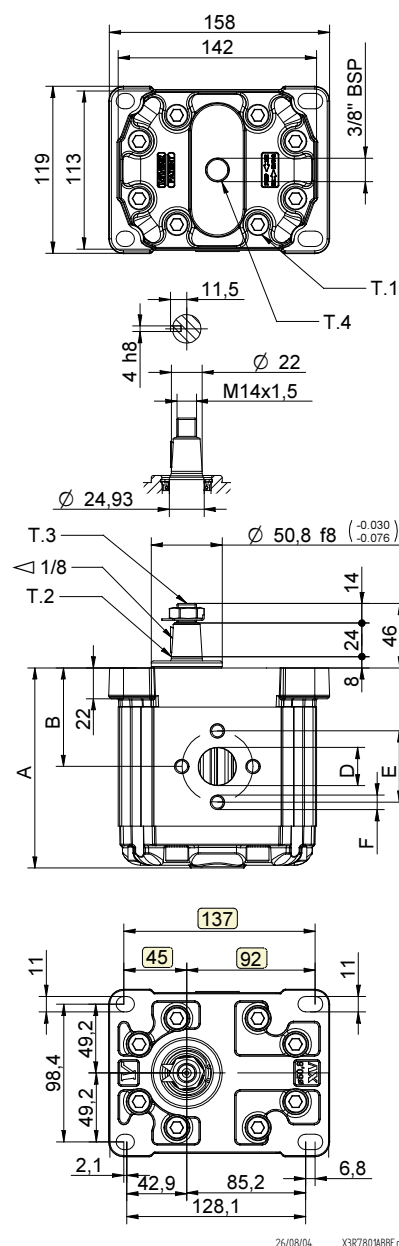
TYPE	Displacement	Max. Pressure		CODE					
	cm3/rev	P1 bar	P3 bar	External drainage			Internal drainage		
XV-3M/15	14,89	250	270	X	3	M 66 01 A A A E	X	3	M 66 01 A A A F
XV-3M/18	17,37	250	270	X	3	M 68 01 A A A E	X	3	M 68 01 A A A F
XV-3M/21	21,10	250	270	X	3	M 70 01 A A A E	X	3	M 70 01 A A A F
XV-3M/27	26,97	250	270	X	3	M 72 01 A A A E	X	3	M 72 01 A A A F
XV-3M/32	32,27	250	270	X	3	M 74 01 A B B E	X	3	M 74 01 A B B F
XV-3M/38	38,47	250	270	X	3	M 78 01 A B B E	X	3	M 78 01 A B B F
XV-3M/43	43,44	250	270	X	3	M 79 01 A B B E	X	3	M 79 01 A B B F
XV-3M/47	47,16	230	250	X	3	M 80 01 A B B E	X	3	M 80 01 A B B F
XV-3M/51	50,88	230	250	X	3	M 81 01 A B B E	X	3	M 81 01 A B B F
XV-3M/54	54,60	230	250	X	3	M 82 01 A B B E	X	3	M 82 01 A B B F
XV-3M/61	60,81	230	250	X	3	M 83 01 A C C E	X	3	M 83 01 A C C F
XV-3M/64	64,53	210	230	X	3	M 85 01 A C C E	X	3	M 85 01 A C C F
XV-3M/70	70,74	200	220	X	3	M 86 01 A C C E	X	3	M 86 01 A C C F
XV-3M/74	74,46	180	200	X	3	M 87 01 A C C E	X	3	M 87 01 A C C F
XV-3M/90	86,87	150	170	X	3	M 89 01 A C C E	X	3	M 89 01 A C C 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	A	B	D	E	F	D	E	F
	kg	mm	mm	IN			OUT		
XV-3M/15	7,010	122,0	61,0	ø20	40	M8	ø20	40	M8
XV-3M/18	7,070	124,0	62,0	ø20	40	M8	ø20	40	M8
XV-3M/21	7,150	127,0	63,5	ø20	40	M8	ø20	40	M8
XV-3M/27	7,250	131,0	65,5	ø20	40	M8	ø20	40	M8
XV-3M/32	7,390	136,0	68,0	ø27	51	M10	ø27	51	M10
XV-3M/38	7,520	141,0	70,5	ø27	51	M10	ø27	51	M10
XV-3M/43	7,630	145,0	72,5	ø27	51	M10	ø27	51	M10
XV-3M/47	7,710	148,0	74,0	ø27	51	M10	ø27	51	M10
XV-3M/51	7,790	151,0	75,5	ø27	51	M10	ø27	51	M10
XV-3M/54	7,870	154,0	77,0	ø27	51	M10	ø27	51	M10
XV-3M/61	8,010	159,0	79,5	ø36	62	M10	ø36	62	M10
XV-3M/64	8,090	162,0	81,0	ø36	62	M10	ø36	62	M10
XV-3M/70	8,220	167,0	83,5	ø36	62	M10	ø36	62	M10
XV-3M/74	8,300	170,0	85,0	ø36	62	M10	ø36	62	M10
XV-3M/90	8,570	180,0	90,0	ø36	62	M10	ø36	62	M10



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

T.3 = 75 [Nm] - torque wrench setting 22

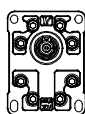
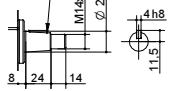
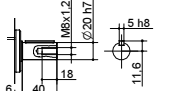
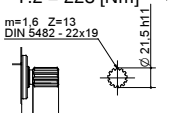
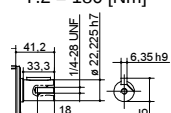
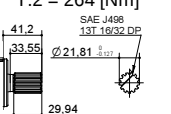
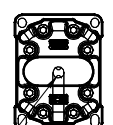
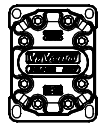
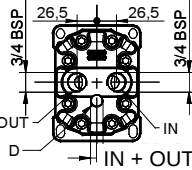
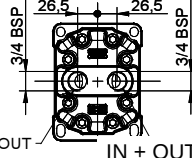
T.2 = 482 [Nm] - admissible shaft torque (N.B. When choosing a shaft, always check the admissible torque).

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

Table of variations

XV-3M

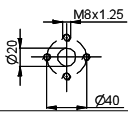
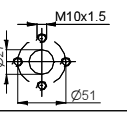
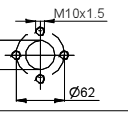
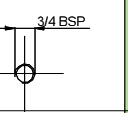
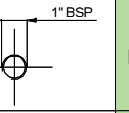
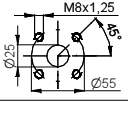
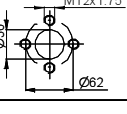
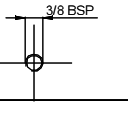
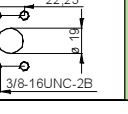
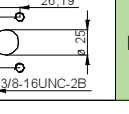
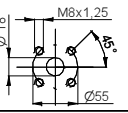
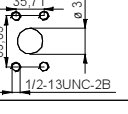
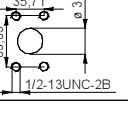
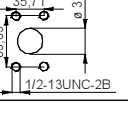
ø50.8 FLANGE

ø50.8 FLANGE		Shaft		Cover	
	01	CO001 - Tapered T.2 = 482 [Nm] 	A	CI001 - Parallel T.2 = 181 [Nm] 	B
		SCF03 - Splined T.2 = 223 [Nm] 	C	CI004 - Parallel T.2 = 180 [Nm] 	H
		SCF04 - Splined T.2 = 264 [Nm] 	I		
			 External drainage	E	
			 Internal drainage	F	
			 IN + OUT + external	K	
			 IN + OUT + internal	L	

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

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

Table showing standard flange and thread combinations available in stock

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

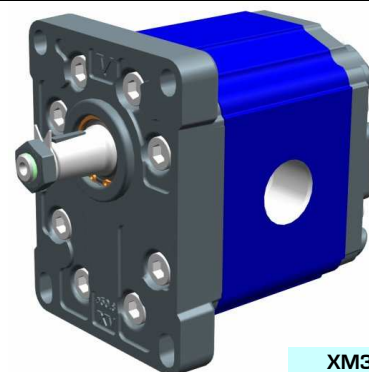
reversible motor - series XV

STANDARD EUROPEAN MOTOR
ø50.8 FLANGE - TAPER SHAFT

XV-3M

X 3 M 78 01 A E E E

Series	X	series XV
Group	3	group 3
Category	M	reversible motor
Displacement	78	38
Flange	01	Ø50.8 reversible rotation
Shaft	A	CO001 - Tapered 1:8 - ø22 - key thk.4
Body	IN	E inlet - 1" BSP
	OUT	E outlet - 1" BSP
Cover	E	with external drainage



XM302

Technical data table

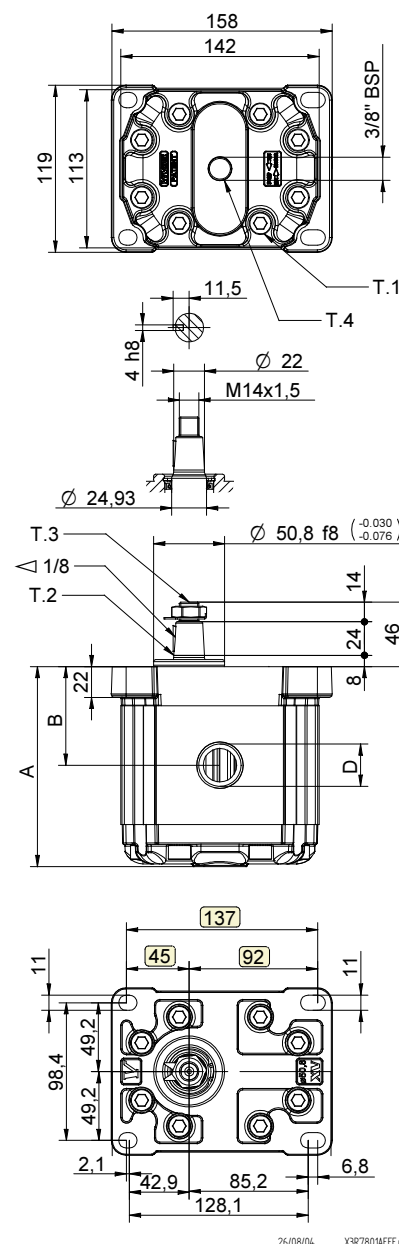
TYPE	Displacement cm3/rev	Max. Pressure		CODE	
		P1 bar	P3 bar	External drainage	Internal drainage
XV-3M/15	14,89	250	270	X 3 P 66 01 A D D E	X 3 P 66 02 A D D F
XV-3M/18	17,37	250	270	X 3 P 68 01 A D D E	X 3 P 68 02 A D D F
XV-3M/21	21,10	250	270	X 3 P 70 01 A D D E	X 3 P 70 02 A D D F
XV-3M/27	26,97	250	270	X 3 P 72 01 A E E E	X 3 P 72 02 A E E F
XV-3M/32	32,27	250	270	X 3 P 74 01 A E E E	X 3 P 74 02 A E E F
XV-3M/38	38,47	250	270	X 3 P 78 01 A E E E	X 3 P 78 02 A E E F
XV-3M/43	43,44	250	270	X 3 P 79 01 A E E E	X 3 P 79 02 A E E F
XV-3M/47	47,16	230	250	X 3 P 80 01 A E E E	X 3 P 80 02 A E E F
XV-3M/51	50,88	230	250	X 3 P 81 01 A E E E	X 3 P 81 02 A E E F
XV-3M/54	54,60	230	250	X 3 P 82 01 A E E E	X 3 P 82 02 A E E F
XV-3M/61	60,81	230	250	X 3 P 83 01 A F F E	X 3 P 83 02 A F F F
XV-3M/64	64,53	210	230	X 3 P 85 01 A F F E	X 3 P 85 02 A F F F
XV-3M/70	70,74	200	220	X 3 P 86 01 A F F E	X 3 P 86 02 A F F F
XV-3M/74	74,46	180	200	X 3 P 87 01 A F F E	X 3 P 87 02 A F F F
XV-3M/90	86,87	150	170	X 3 P 89 01 A F F E	X 3 P 89 02 A F F 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	A	B	D	D
	kg	mm	mm	IN	OUT
XV-3M/15	7,010	122,0	61,0	3/4" BSPP	3/4" BSPP
XV-3M/18	7,070	124,0	62,0	3/4" BSPP	3/4" BSPP
XV-3M/21	7,150	127,0	63,5	3/4" BSPP	3/4" BSPP
XV-3M/27	7,250	131,0	65,5	1" BSPP	1" BSPP
XV-3M/32	7,390	136,0	68,0	1" BSPP	1" BSPP
XV-3M/38	7,520	141,0	70,5	1" BSPP	1" BSPP
XV-3M/43	7,630	145,0	72,5	1" BSPP	1" BSPP
XV-3M/47	7,710	148,0	74,0	1" BSPP	1" BSPP
XV-3M/51	7,790	151,0	75,5	1" BSPP	1" BSPP
XV-3M/54	7,870	154,0	77,0	1" BSPP	1" BSPP
XV-3M/61	8,010	159,0	79,5	1" 1/4 BSPP	1" 1/4 BSPP
XV-3M/64	8,090	162,0	81,0	1" 1/4 BSPP	1" 1/4 BSPP
XV-3M/70	8,220	167,0	83,5	1" 1/4 BSPP	1" 1/4 BSPP
XV-3M/74	8,300	170,0	85,0	1" 1/4 BSPP	1" 1/4 BSPP
XV-3M/90	8,570	180,0	90,0	1" 1/4 BSPP	1" 1/4 BSPP



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

T.3 = 75 [Nm] - torque wrench setting 22

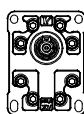
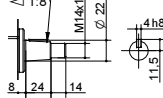
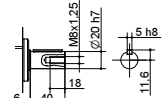
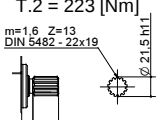
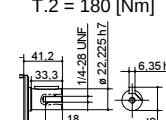
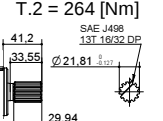
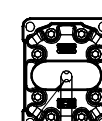
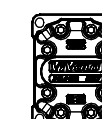
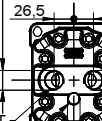
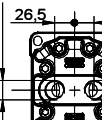
T.2 = 482 [Nm] - admissible shaft torque (N.B. When choosing a shaft, always check the admissible torque).

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

Table of variations

XV-3M

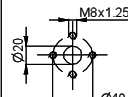
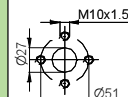
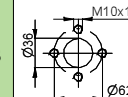
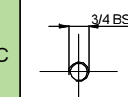
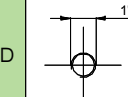
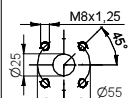
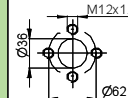
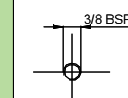
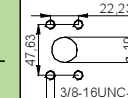
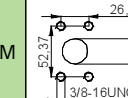
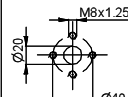
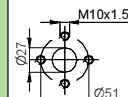
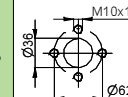
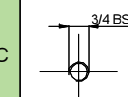
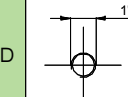
ø50.8 FLANGE

ø50.8 FLANGE		Shaft		Cover	
	01	CO001 - Tapered T.2 = 482 [Nm] 	A	CI001 - Parallel T.2 = 181 [Nm] 	B
		SCF03 - Splined T.2 = 223 [Nm] m=1.6 Z=13 DIN 5482 - 22x19 	C	CI004 - Parallel T.2 = 180 [Nm] 	H
		SCF04 - Splined T.2 = 264 [Nm] SAE J498 13T 16/32 DP 	I		
				 External drainage	E
				 Internal drainage	F
				 IN + OUT + external	K
				 IN + OUT + internal	L

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

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

Table showing standard flange and thread combinations available in stock

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

reversible motor - series XV

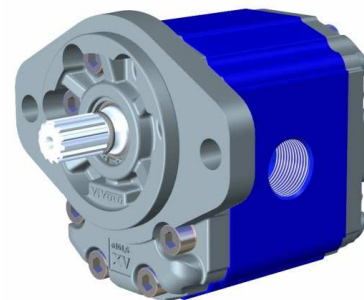
XV-3M

SAE B TYPE MOTOR

ø101.6 FLANGE - SPLINED SHAFT

X	3	M	78	31	I	E	E	E
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Series	X	series XV
Group	3	group 3
Category	M	reversible motor
Displacement	78	38
Flange	31	Ø101.6 SAE B reversible rotation
Shaft	I	SCF04 - Splined ø21.81 z=13, H=33.55 SAE J498-13T -16/32DP (SAE B)
Body	IN	E inlet - 1" BSP
	OUT	E outlet - 1" BSP
Cover	E	with external drainage



XM331

Technical data table

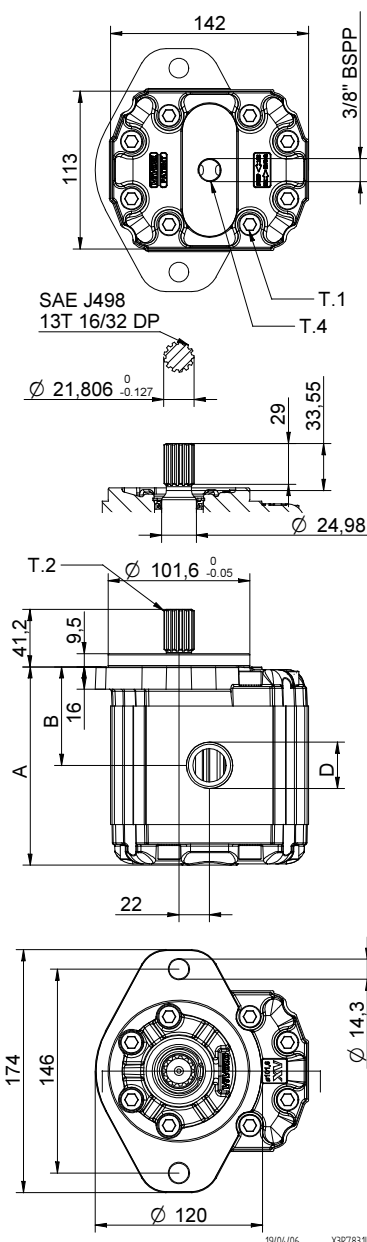
TYPE	Displacement cm3/rev	Max. Pressure		CODE	
		P1 bar	P3 bar	External drainage	Internal drainage
XV-3M/15	14,89	250	270	X 3 M 66 31 I D D E	X 3 M 66 31 I D D F
XV-3M/18	17,37	250	270	X 3 M 68 31 I D D E	X 3 M 68 31 I D D F
XV-3M/21	21,10	250	270	X 3 M 70 31 I D D E	X 3 M 70 31 I D D F
XV-3M/27	26,97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



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

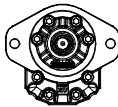
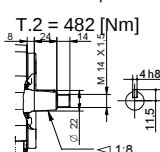
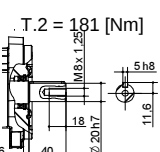
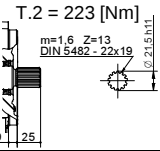
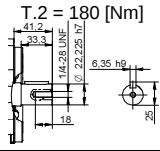
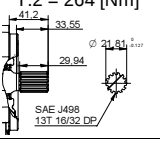
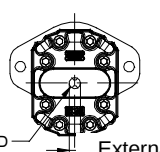
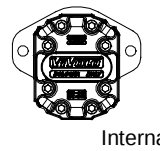
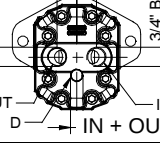
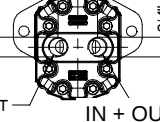
T.2 = 264 [Nm] - admissible shaft torque (N.B. When choosing a shaft, always check the admissible torque).

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

Table of variations

XV-3M

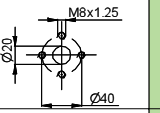
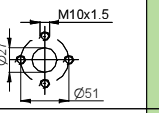
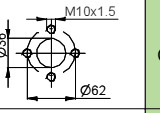
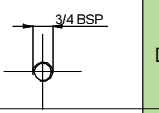
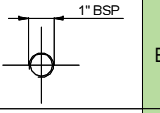
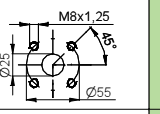
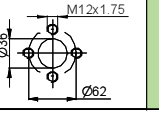
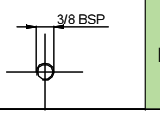
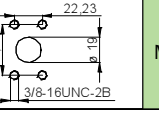
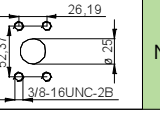
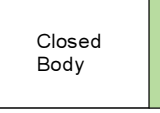
ø101.6 FLANGE ""SAE B""

ø101.6 FLANGE ""SAE B""		Shaft		Cover	
	31	CO001 - Tapered T.2 = 482 [Nm] 	A	CI001 - Parallel T.2 = 181 [Nm] 	B
		SCF03 - Splined T.2 = 223 [Nm] m=1.6 Z=13 DIN 5482 - 22x19 	C	CI004 - Parallel T.2 = 180 [Nm] 	H
		SCF04 - Splined T.2 = 264 [Nm] 	I		
		 External drainage		E	
		 Internal drainage		F	
		 IN + OUT + external		K	
		 IN + OUT + internal		L	

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

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

Table showing standard flange and thread combinations available in stock

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

reversible motor - series XV

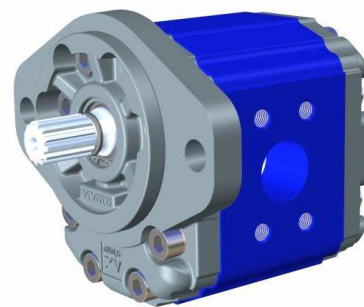
XV-3M

SAE B TYPE MOTOR

ø101.6 FLANGE - SPLINED SHAFT

X 3 M 78 31 I O O E

Series	X	series XV
Group	3	group 3
Category	M	reversible motor
Displacement	78	38
Flange	31	Ø101.6 SAE B reversible rotation
Shaft	I	SCF04 - Splined ø21.81 z=13, H=33.55 SAE J498-13T -16/32DP (SAE B)
Body	IN	inlet - SAE 30,18 X 58,72 - ø32 - 7/16-14UNC-2B
	OUT	outlet - SAE 30,18 X 58,72 - ø32 - 7/16-14UNC-2B
Cover	E	with external drainage



XM332

Technical data table

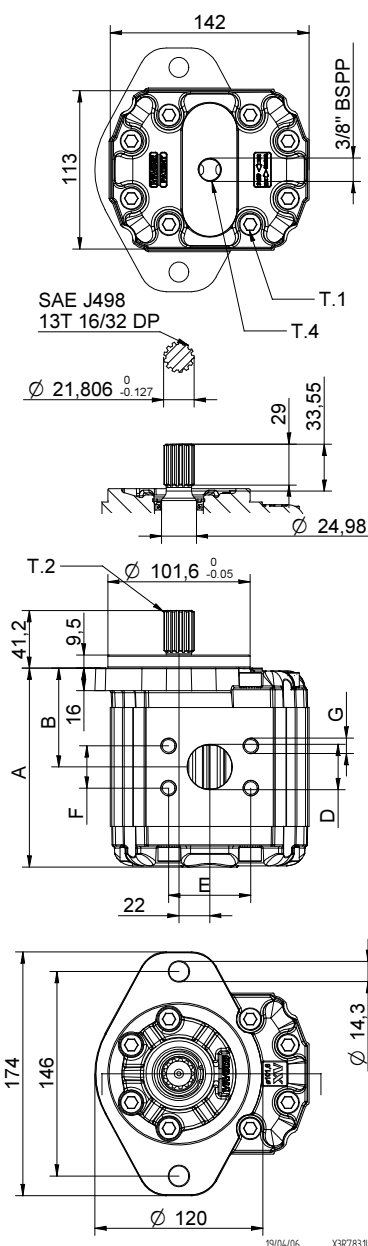
TYPE	Displacement	Max. Pressure		CODE	
	cm3/rev	P1 bar	P3 bar	External drainage	Internal drainage
XV-3M/15	14,89	250	270	X 3 M 66 31 I N N E	X 3 M 66 31 I N N F
XV-3M/18	17,37	250	270	X 3 M 68 31 I N N E	X 3 M 68 31 I N N F
XV-3M/21	21,10	250	270	X 3 M 70 31 I N N E	X 3 M 70 31 I N N F
XV-3M/27	26,97	250	270	X 3 M 72 31 I N N E	X 3 M 72 31 I N N F
XV-3M/32	32,27	250	270	X 3 M 74 31 I O O E	X 3 M 74 31 I O O F
XV-3M/38	38,47	250	270	X 3 M 78 31 I O O E	X 3 M 78 31 I O O F
XV-3M/43	43,44	250	270	X 3 M 79 31 I O O E	X 3 M 79 31 I O O F
XV-3M/47	47,16	230	250	X 3 M 80 31 I O O E	X 3 M 80 31 I O O F
XV-3M/51	50,88	230	250	X 3 M 81 31 I O O E	X 3 M 81 31 I O O F
XV-3M/54	54,60	230	250	X 3 M 82 31 I O O E	X 3 M 82 31 I O O F
XV-3M/61	60,81	230	250	X 3 M 83 31 I P P E	X 3 M 83 31 I P P F
XV-3M/64	64,53	210	230	X 3 M 85 31 I P P E	X 3 M 85 31 I P P F
XV-3M/70	70,74	200	220	X 3 M 86 31 I P P E	X 3 M 86 31 I P P F
XV-3M/74	74,46	180	200	X 3 M 87 31 I P P E	X 3 M 87 31 I P P F
XV-3M/90	86,87	150	170	X 3 M 89 31 I P P E	X 3 M 89 31 I P 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	A	B	D	E	F	G
	kg	mm	mm	IN - OUT			
XV-3M/15	7,010	124,0	61,0	ø25	52,37	26,19	3/8-16UNC-2B
XV-3M/18	7,070	126,0	62,0	ø25	52,37	26,19	3/8-16UNC-2B
XV-3M/21	7,150	129,0	63,5	ø25	52,37	26,19	3/8-16UNC-2B
XV-3M/27	7,250	133,0	65,5	ø25	52,37	26,19	3/8-16UNC-2B
XV-3M/32	7,390	138,0	68,0	ø32	58,72	30,18	7/16-14UNC-2B
XV-3M/38	7,520	143,0	70,5	ø32	58,72	30,18	7/16-14UNC-2B
XV-3M/43	7,630	147,0	72,5	ø32	58,72	30,18	7/16-14UNC-2B
XV-3M/47	7,710	150,0	74,0	ø32	58,72	30,18	7/16-14UNC-2B
XV-3M/51	7,790	153,0	75,5	ø32	58,72	30,18	7/16-14UNC-2B
XV-3M/54	7,870	156,0	77,0	ø32	58,72	30,18	7/16-14UNC-2B
XV-3M/61	8,010	161,0	79,5	ø38	69,85	35,71	1/2-13UNC-2B
XV-3M/64	8,090	164,0	81,0	ø38	69,85	35,71	1/2-13UNC-2B
XV-3M/70	8,220	169,0	83,5	ø38	69,85	35,71	1/2-13UNC-2B
XV-3M/74	8,300	172,0	85,0	ø38	69,85	35,71	1/2-13UNC-2B
XV-3M/90	8,570	182,0	90,0	ø38	69,85	35,71	1/2-13UNC-2B



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

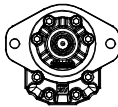
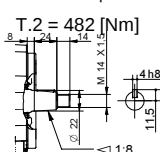
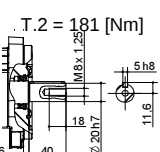
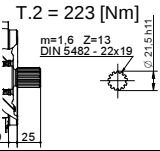
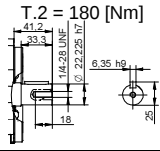
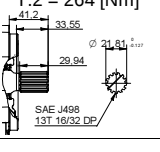
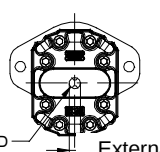
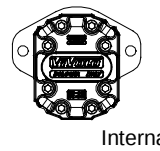
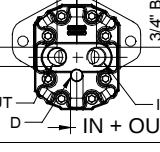
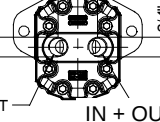
T.2 = 264 [Nm] - admissible shaft torque (N.B. When choosing a shaft, always check the admissible torque).

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

Table of variations

XV-3M

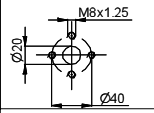
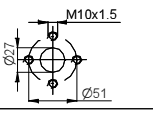
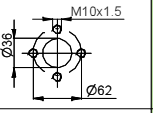
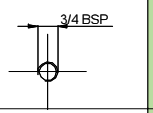
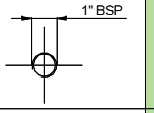
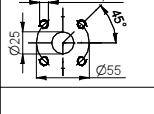
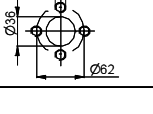
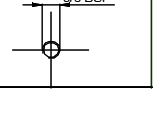
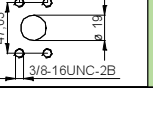
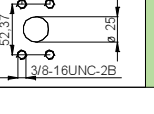
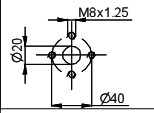
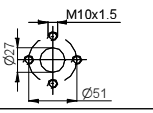
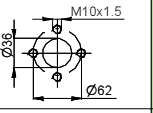
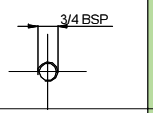
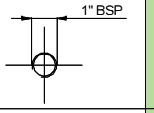
ø101.6 FLANGE ""SAE B""

ø101.6 FLANGE ""SAE B""		Shaft		Cover	
	31	CO001 - Tapered T.2 = 482 [Nm] 	A	CI001 - Parallel T.2 = 181 [Nm] 	B
		SCF03 - Splined T.2 = 223 [Nm] m=1.6 Z=13 DIN 5482 - 22x19 	C	CI004 - Parallel T.2 = 180 [Nm] 	H
		SCF04 - Splined T.2 = 264 [Nm] 	I		
		 External drainage		E	
		 Internal drainage		F	
		 IN + OUT + external		K	
		 IN + OUT + internal		L	

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

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

Table showing standard flange and thread combinations available in stock

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