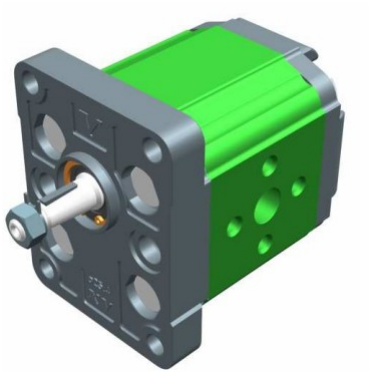
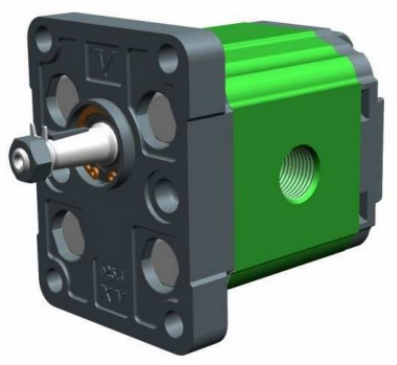
ZUBOVÉ HYDROMOTORY

ŘADY XV-1U / XV-1M

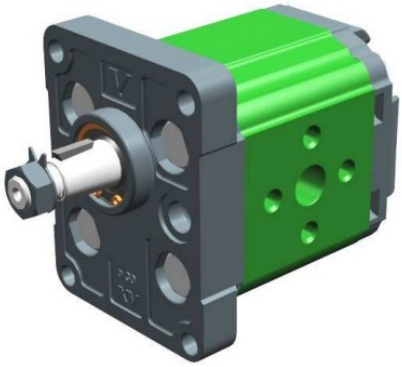
XU101 / XM101



XU105 / XM105



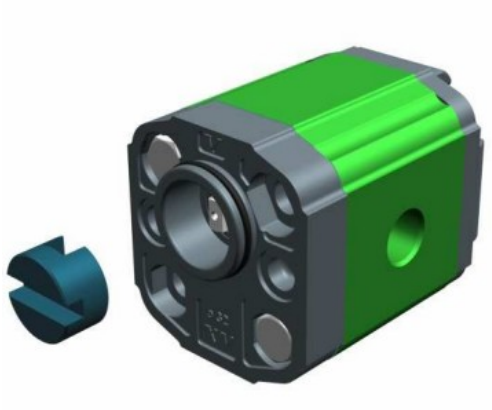
XU113 / XM113



XU119 / XM119

XU140 / XM140

XU161 / XM161



Jednosměrné hydromotory XV-1U

XV-1U

XU101

STANDARD EUROPEAN MOTOR
ø25.4 FLANGE - TAPER SHAFT

XU105

STANDARD EUROPEAN MOTOR
ø25.4 FLANGE - TAPER SHAFT

XU113

STANDARD MOTOR
ø30 FLANGE - TAPER SHAFT

XU119

BH TYPE MOTOR
ø32 BODY-SHAPED FLANGE - MILLED SHANK

XU140

HY TYPE MOTOR
ø32 BODY-SHAPED FLANGE - MILLED SHANK

XU161

STANDARD GERMAN "BH" TYPE MOTOR
ø32 BODY-SHAPED FLANGE - MILLED SHANK

XU168

SAE AA TYPE MOTOR
ø50.8 FLANGE - PARALLEL SHAFT

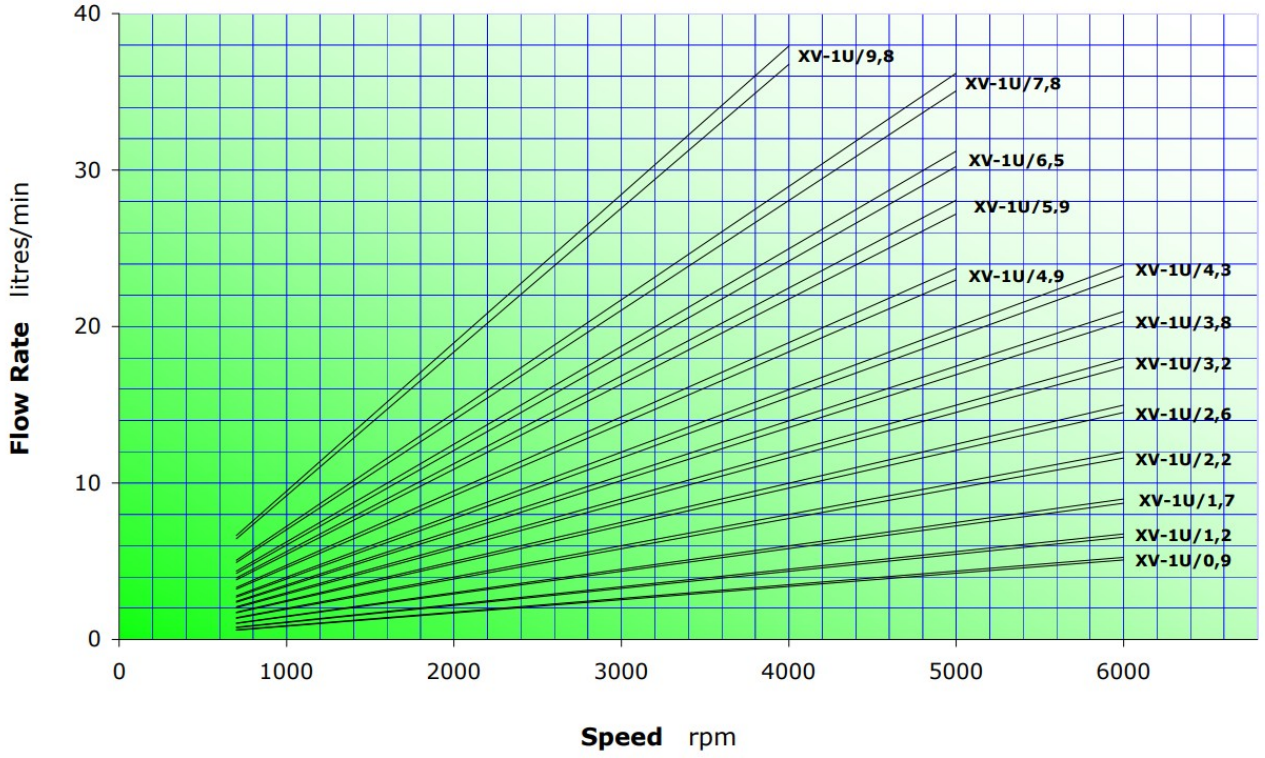
XV-1U									
	XV-1U/0.9	0.91 cm^3/rev	1,23 Nm	0,13 KW	280 bar	6 bar	30 bar	700 rev/min	6000 rev/min
	XV-1U/1.2	1.17 cm^3/rev	1,58 Nm	0,17 KW	290 bar	6 bar	30 bar	700 rev/min	6000 rev/min
	XV-1U/1.7	1.56 cm^3/rev	2,11 Nm	0,22 KW	290 bar	6 bar	30 bar	700 rev/min	6000 rev/min
	XV-1U/2.2	2.08 cm^3/rev	2,81 Nm	0,29 KW	290 bar	6 bar	25 bar	700 rev/min	6000 rev/min
	XV-1U/2.6	2.60 cm^3/rev	3,52 Nm	0,37 KW	300 bar	6 bar	20 bar	700 rev/min	6000 rev/min
	XV-1U/3.2	3.12 cm^3/rev	4,22 Nm	0,44 KW	300 bar	6 bar	15 bar	700 rev/min	6000 rev/min
	XV-1U/3.8	3.64 cm^3/rev	4,92 Nm	0,52 KW	300 bar	6 bar	15 bar	700 rev/min	6000 rev/min
	XV-1U/4.3	4.16 cm^3/rev	5,63 Nm	0,59 KW	300 bar	6 bar	15 bar	700 rev/min	6000 rev/min
	XV-1U/4.9	4.94 cm^3/rev	6,68 Nm	0,70 KW	300 bar	6 bar	15 bar	700 rev/min	6000 rev/min
	XV-1U/5.9	5.85 cm^3/rev	7,91 Nm	0,83 KW	300 bar	6 bar	15 bar	700 rev/min	5000 rev/min
	XV-1U/6.5	6.50 cm^3/rev	8,79 Nm	0,92 KW	300 bar	6 bar	10 bar	700 rev/min	5000 rev/min
	XV-1U/7.8	7.54 cm^3/rev	10,20 Nm	1,07 KW	260 bar	6 bar	10 bar	700 rev/min	5000 rev/min
	XV-1U/9.8	9.88 cm^3/rev	13,37 Nm	1,40 KW	230 bar	6 bar	10 bar	700 rev/min	4000 rev/min

TYPE	cm3/ rev		rpm											
			700	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500	6000
XV 1U/0.9	0,91	Flow rate l/min	0,630	0,900	1,350	1,800	2,250	2,700	3,150	3,600	4,050	4,500	4,950	5,400
XV 1U/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 1U/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 1U/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 1U/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 1U/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 1U/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 1U/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 1U/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 1U/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 1U/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 1U/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 1U/9.8	9,88		6,860	9,800	14,700	19,600	24,500	29,400	34,300	39,200				

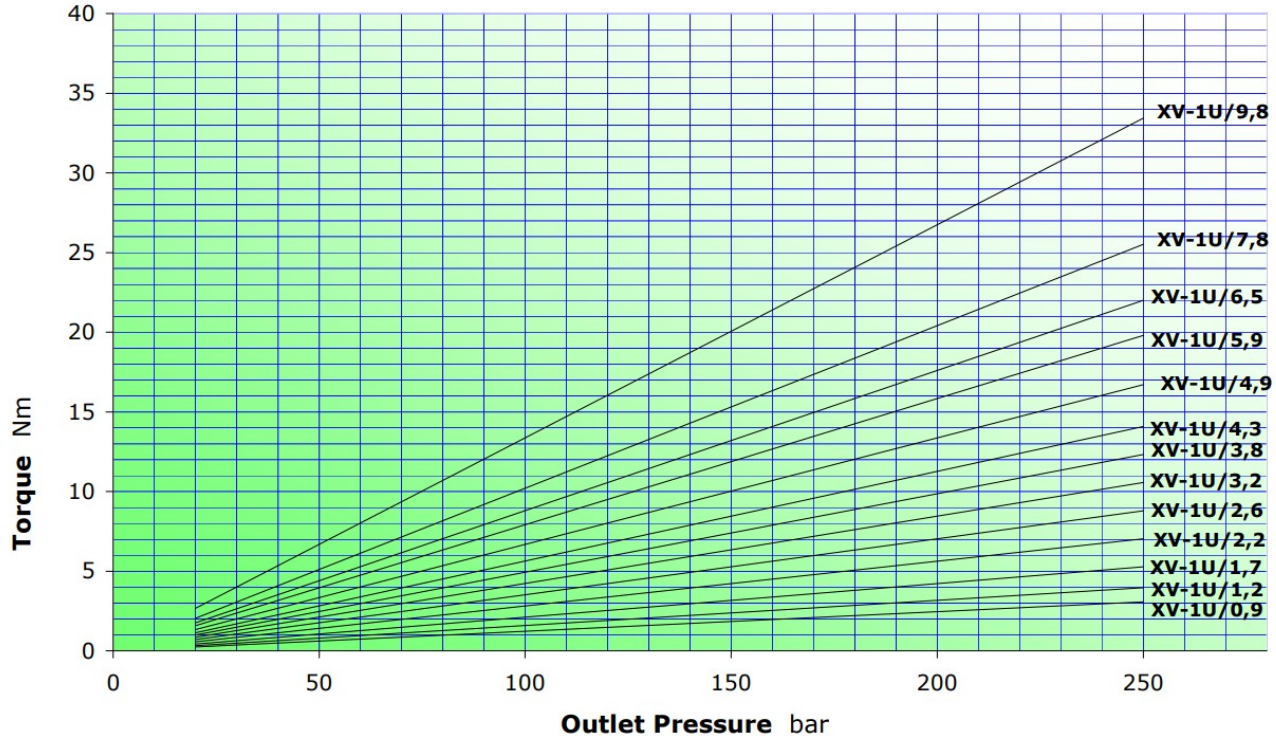
General technical data

Type of fluid to be used	Mineral-based hydraulic oil HLP HV (D IN 51524)
Minimum operating viscosity	10 mm^2/s
Maximum operating viscosity	100 mm^2/s
Maximum admissible viscosity at start-up	1500 mm^2/s
Recommended viscosity	20 mm^2/s - 100 mm^2/s
Ambient temperature	-20 ℃ - 60℃
Fluid operating temperature	-15℃ - 80℃
Recommended fluid operating temperature	30℃ - 50° C
For temperatures above 120℃	Request FKM seals (V iton)
Max. inlet fluid 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-1U CHARACTERISTIC FLOW RATE CURVES



XV-1U MOTOR TORQUE



Reverzační hydromotory XV-1M

XV-1M

XM101

STANDARD EUROPEAN MOTOR

ø25.4 FLANGE - TAPER SHAFT 24

XM105

STANDARD EUROPEAN MOTOR

ø25.4 FLANGE - TAPER SHAFT 26

XM113

STANDARD MOTOR

ø30 FLANGE - TAPER SHAFT 28

XM119

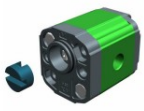
BH TYPE MOTOR

ø32 BODY-SHAPED FLANGE - MILLED SHANK 30

XM140

HY TYPE MOTOR

ø32 BODY-SHAPED FLANGE - MILLED SHANK 32



XM161

STANDARD GERMAN "BH" TYPE MOTOR

ø32 BODY-SHAPED FLANGE - MILLED SHANK 34

XM168

SAE AA TYPE MOTOR

ø50.8 FLANGE - PARALLEL SHAFT 36

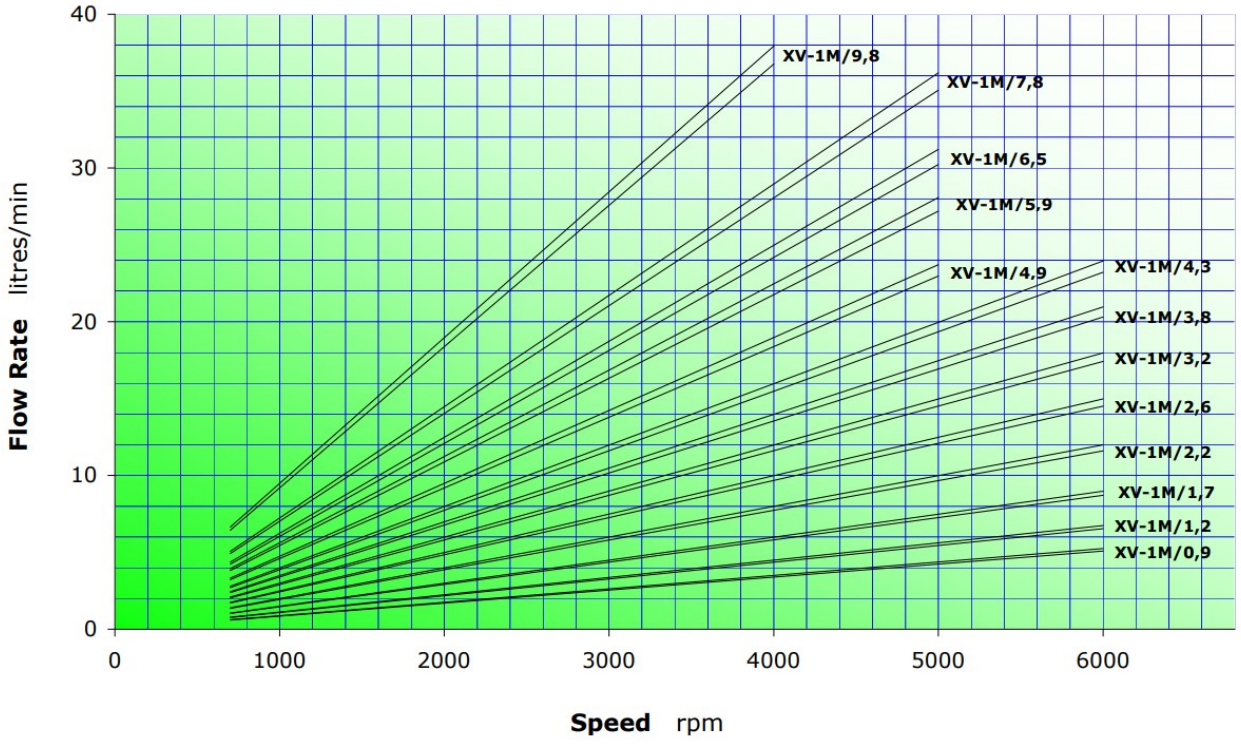
XV-1M	**XV-1M/0.9**	0.91 cm^3/rev	1,23 Nm	0,13 KW	280 bar	6 bar	30 bar	700 rev/min	6000 rev/min
	XV-1M/1.2	1.17 cm^3/rev	1,58 Nm	0,17 KW	290 bar	6 bar	30 bar	700 rev/min	6000 rev/min
	XV-1M/1.7	1.56 cm^3/rev	2,11 Nm	0,22 KW	290 bar	6 bar	30 bar	700 rev/min	6000 rev/min
	XV-1M/2.2	2.08 cm^3/rev	2,81 Nm	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

TYPE	cm3/ rev		rpm											
			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
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				

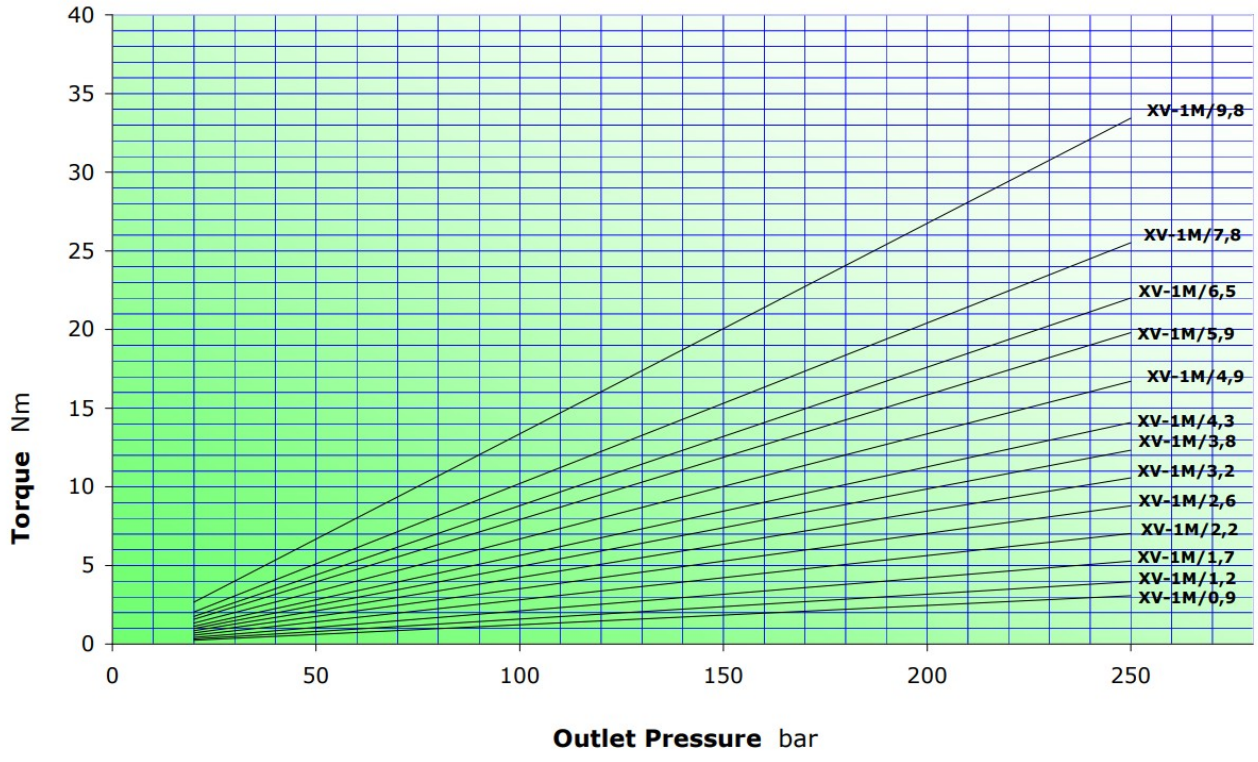
General technical data

Type of fluid to be used	Mineral-based hydraulic oil HLP HV (D IN 51524)
Minimum operating viscosity	10 mm^2/s
Maximum operating viscosity	100 mm^2/s
Maximum admissible viscosity at start-up	1500 mm^2/s
Recommended viscosity	20 mm^2/s - 100 mm^2/s
Ambient temperature	-20 ℃ - 60℃
Fluid operating temperature	-15℃ - 80℃
Recommended fluid operating temperature	30℃ – 50° C
For temperatures above 120℃	Request FKM seals (V iton)
Max. 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-1M CHARACTERISTIC FLOW RATE CURVES



XV-1M MOTOR TORQUE



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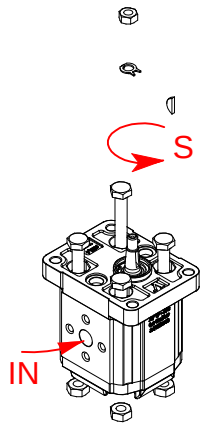
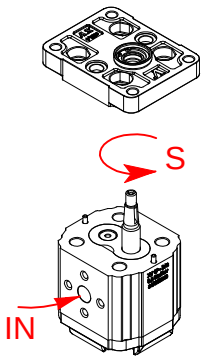
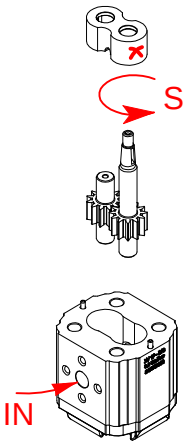
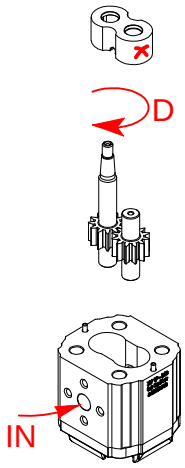
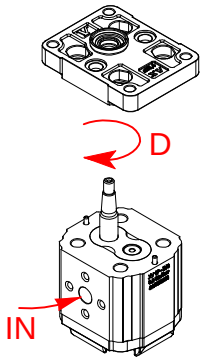
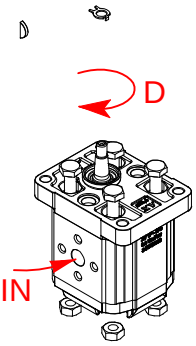
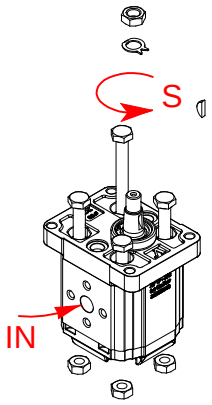
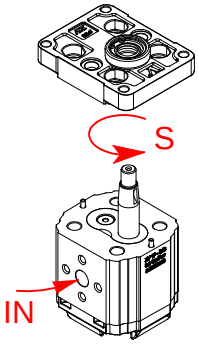
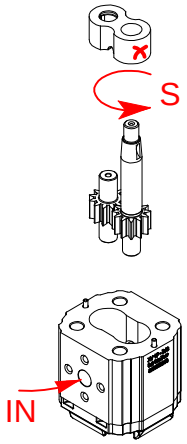
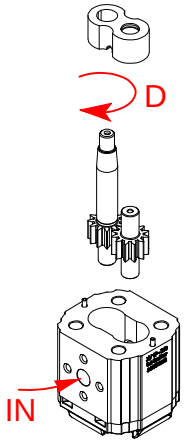
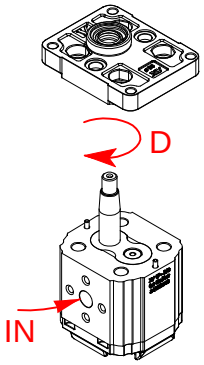
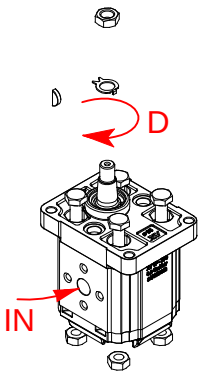
XV1-U with Flange ø25.4 (ref. XU- 101)

When changing the direction of rotation of the XV-1U 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 ø25,4 (ref. XU- 101)					
					
Remove the key, nut and washer from the shaft. Loosen and remove the fastening screws.	Take off the flange.	Take out the gears and upper bush. Warning!! The bush **must never** be turned.	Invert the positions of the driven and driving shafts. Warning! The body and cover must not be turned. Use the marking on the body as your reference.	Fit the previously removed flange back in place taking care to clean the body-base contact surfaces.	Replace the screws and tighten the nuts with a torque of 24.5 Nm to 29.4 Nm. Check that the shaft turns on completing the operation.
Note: with this rotation change system, the **inlets** and **outlets** remain unchanged.					

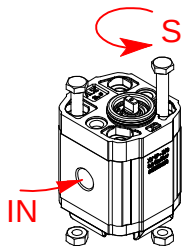
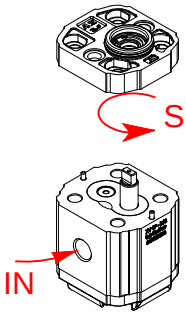
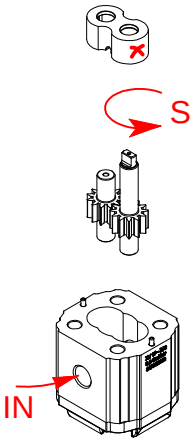
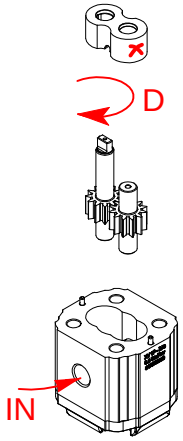
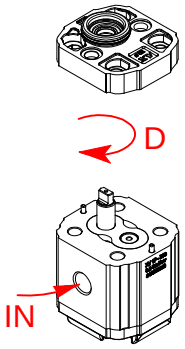
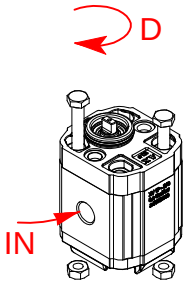
XV1-U with Flange ø30 (ref. XU- 113)

When changing the direction of rotation of the XV-1P 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 ø30 (ref. XU- 113)					
					
Remove the key, nut and washer from the shaft. Loosen and remove the fastening screws.	Take off the flange.	Take out the gears and upper bush. Warning!! The bush **must** be turned.	Invert the positions of the driven and driving shafts. Warning! The body and cover must not be turned. Use the marking on the body as your reference.	Fit the previously removed flange back in place taking care to clean the body-base contact surfaces.	Replace the screws and tighten the nuts with a torque of 24.5 Nm to 29.4 Nm. Check that the shaft turns on completing the operation.
Note: with this rotation change system, the **inlets** and **outlets** remain unchanged.					

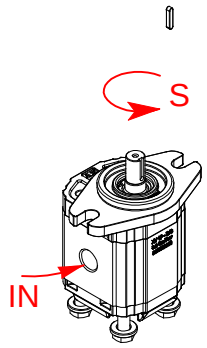
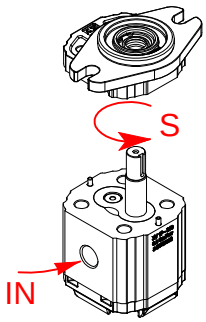
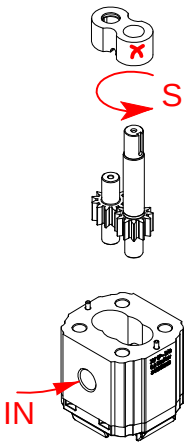
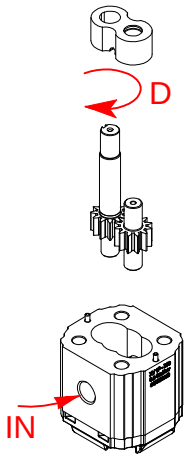
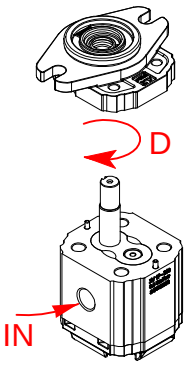
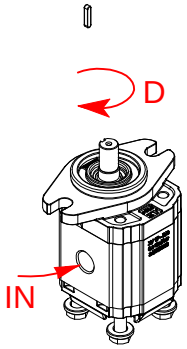
XV1-U with Flange ø32 BH-HY (ref. from XU- 119 to: XU- 140)

When changing the direction of rotation of the XV-1P 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 ø32 BH-HY (ref. da XU- 119 a: XU- 140)					
					
Loosen and remove the fastening screws.	Take off the flange.	Take out the gears and upper bush. Warning!! The bush **must <u>never</u>** be turned.	Invert the positions of the driven and driving shafts. Warning! The body and cover must not be turned. Use the marking on the body as your reference.	Fit the previously removed flange back in place taking care to clean the body-base contact surfaces.	Replace the screws and tighten the nuts with a torque of 24.5 Nm to 29.4 Nm. Check that the shaft turns on completing the operation.
Note: with this rotation change system, the **inlets** and **outlets** remain unchanged.					

XV1-U with Flange ø50.8 SAE-AA (ref. XU- 168)

When changing the direction of rotation of the XV-1P 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 SAE-AA (ref. XU- 168)					
					
Remove the key from the shaft. Loosen and remove the fastening screws.	Take off the flange.	Take out the gears and upper bush. Warning!! The bush **must** be turned.	Invert the positions of the driven and driving shafts. Warning! The body and cover must not be turned. Use the marking on the body as your reference.	Fit the previously removed flange back in place taking care to clean the body-base contact surfaces.	Replace the screws back in place and tighten the nuts with a torque of 24.5 Nm to 29.4 Nm. Check that the shaft turns on completing the operation.
Note: with this rotation change system, the **inlets** and **outlets** remain unchanged.					

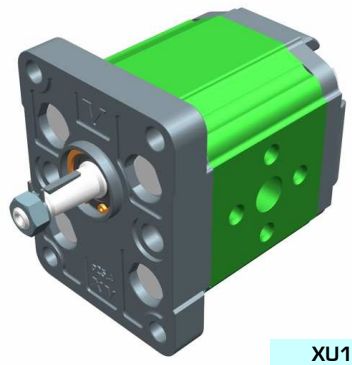
unidirectional motor - series XV

STANDARD EUROPEAN MOTOR
ø25.4 FLANGE - TAPER SHAFT

XV-1U

X	1	U	25	02	F	I	I	A

Series	X	series XV
Group	1	group 1
Category	U	unidirectional motor
Displacement	25	3.8
Flange	02	Ø25.4 STANDARD EUROPEAN right rotation
Shaft	F	CO001 - Tapered 1:8 - ø10 - M7x1 - key thk.2.4
Body IN	I	inlet - Ø30 Ø12 M6
Body OUT	I	outlet - Ø30 Ø12 M6
Cover	A	standard



XU101

Technical data table

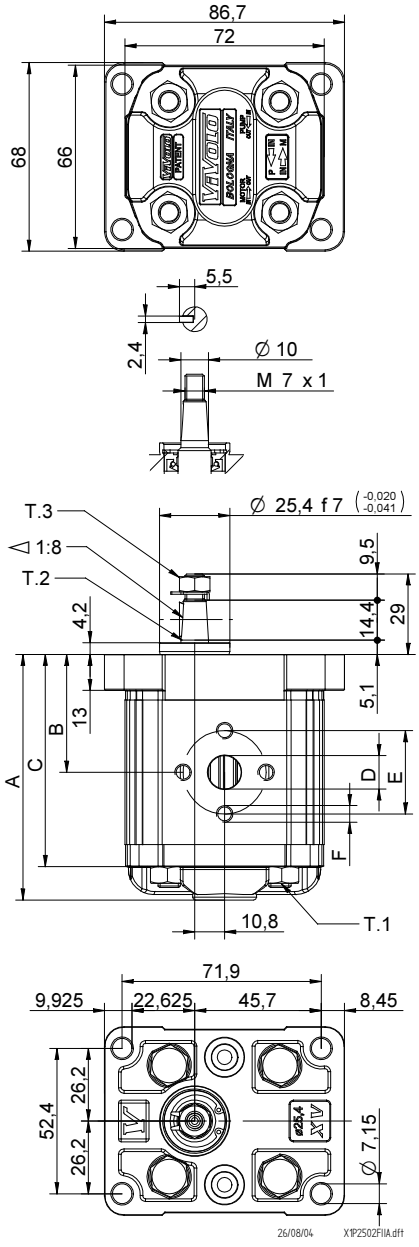
TYPE	Displacement	Max. Pressure		CODE	
	cm3/rev	P1 bar	P3 bar	Left rotation	Right rotation
XV-1U/0.9	0,91	240	280	X 1 U 16 01 F I I A	X 1 U 16 02 F I I A
XV-1U/1.2	1,17	250	290	X 1 U 17 01 F I I A	X 1 U 17 02 F I I A
XV-1U/1.7	1,56	250	290	X 1 U 18 01 F I I A	X 1 U 18 02 F I I A
XV-1U/2.2	2,08	250	290	X 1 U 20 01 F I I A	X 1 U 20 02 F I I A
XV-1U/2.6	2,60	250	300	X 1 U 21 01 F I I A	X 1 U 21 02 F I I A
XV-1U/3.2	3,12	250	300	X 1 U 23 01 F I I A	X 1 U 23 02 F I I A
XV-1U/3.8	3,64	250	300	X 1 U 25 01 F I I A	X 1 U 25 02 F I I A
XV-1U/4.3	4,16	250	300	X 1 U 27 01 F I I A	X 1 U 27 02 F I I A
XV-1U/4.9	4,94	250	300	X 1 U 29 01 F I I A	X 1 U 29 02 F I I A
XV-1U/5.9	5,85	250	300	X 1 U 31 01 F I I A	X 1 U 31 02 F I I A
XV-1U/6.5	6,50	250	300	X 1 U 32 01 F I I A	X 1 U 32 02 F I I A
XV-1U/7.8	7,54	220	260	X 1 U 34 01 F I I A	X 1 U 34 02 F I I A
XV-1U/9.8	9,88	190	230	X 1 U 36 01 F I I A	X 1 U 36 02 F I I A

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

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

Dimensions table

TYPE	Weight	A	B	C	D	E	F	D	E	F
	kg	mm	mm	mm	IN			OUT		
XV-1U/0.9	0,950	78,1	37,3	66,1	ø12	30	M6x1	ø12	30	M6x1
XV-1U/1.2	0,970	79,0	37,8	67,0	ø12	30	M6x1	ø12	30	M6x1
XV-1U/1.7	1,010	80,5	38,5	68,5	ø12	30	M6x1	ø12	30	M6x1
XV-1U/2.2	1,030	82,5	39,5	70,5	ø12	30	M6x1	ø12	30	M6x1
XV-1U/2.6	1,060	84,5	40,5	72,5	ø12	30	M6x1	ø12	30	M6x1
XV-1U/3.2	1,090	86,5	41,5	74,5	ø12	30	M6x1	ø12	30	M6x1
XV-1U/3.8	1,120	88,5	42,5	76,5	ø12	30	M6x1	ø12	30	M6x1
XV-1U/4.3	1,170	90,5	43,5	78,5	ø12	30	M6x1	ø12	30	M6x1
XV-1U/4.9	1,200	93,5	45,0	81,5	ø12	30	M6x1	ø12	30	M6x1
XV-1U/5.9	1,260	97,0	46,8	85,0	ø12	30	M6x1	ø12	30	M6x1
XV-1U/6.5	1,300	98,5	48,0	86,5	ø12	30	M6x1	ø12	30	M6x1
XV-1U/7.8	1,360	103,5	50,0	91,5	ø12	30	M6x1	ø12	30	M6x1
XV-1U/9.8	1,500	112,5	54,5	100,5	ø12	30	M6x1	ø12	30	M6x1



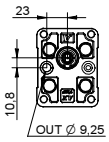
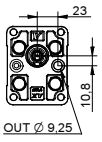
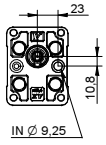
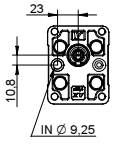
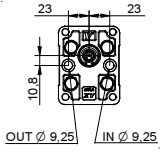
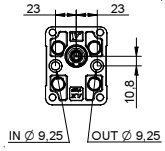
T.1 = 24.5÷29.4 [Nm] - screw tightening torque M8 T.3 = 11.5 [Nm] - torque wrench setting 11

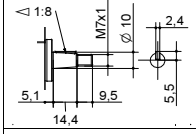
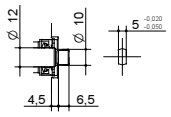
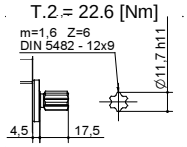
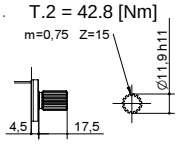
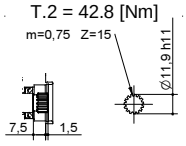
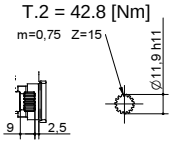
T.2 = 43 [Nm] - admissible shaft torque (N.B. When choosing a shaft, always check the admissible torque).

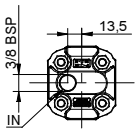
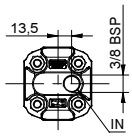
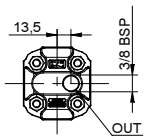
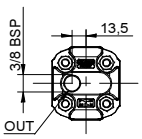
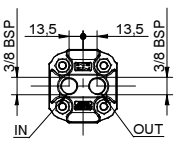
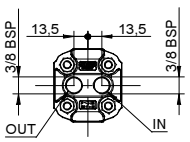
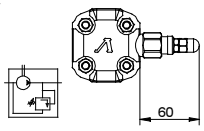
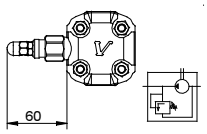
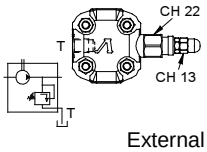
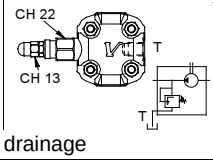
Table of variations

ø25.4 FLANGE

XV-1U

ø25.4 FLANGE			
Left rotation		Right rotation	
	01		02
	03		04
	05		06
	07		08

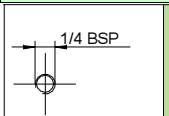
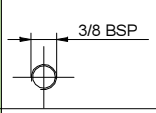
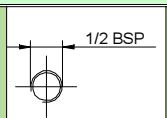
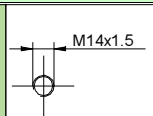
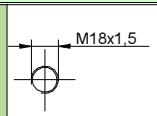
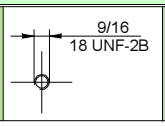
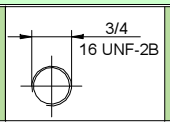
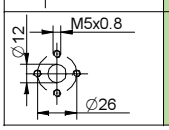
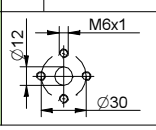
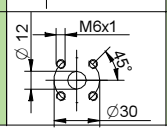
Shaft			
CO001 - Tapered T.2 = 43 [Nm]	F	CF002 - Milled shank T.2 = 13.8 [Nm]	D
			
SCF04 - Splined T.2 = 22.6 [Nm]	J	SCF02 - Splined T.2 = 42.8 [Nm]	L
			
SCF01 - Splined T.2 = 42.8 [Nm]	Q	SCF03 - Splined T.2 = 42.8 [Nm]	R
			

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

Displacement	
TYPE	CODE
XV-1U/0.9	**16**
XV-1U/1.2	**17**
XV-1U/1.7	**18**
XV-1U/2.2	**20**
XV-1U/2.6	**21**
XV-1U/3.2	**23**
XV-1U/3.8	**25**
XV-1U/4.3	**27**
XV-1U/4.9	**29**
XV-1U/5.9	**31**
XV-1U/6.5	**32**
XV-1U/7.8	**34**
XV-1U/9.8	**36**

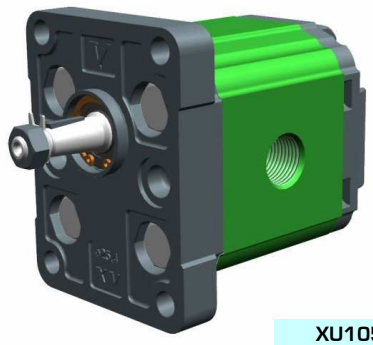
Standard bodies						
Displacement cm3/rev	Standard threads					
0.9	I - I	B - B	J - J	B - Z	Z - Z	G - F
1.2	I - I	B - B	J - J	B - Z	Z - Z	G - F
1.7	I - I	B - B	J - J	B - Z	Z - Z	G - F
2.2	I - I	B - B	J - J	B - Z	Z - Z	G - F
2.6	I - I	B - B	J - J	B - Z	Z - Z	G - F
3.2	I - I	B - B	J - J	B - Z	Z - Z	G - F
3.8	I - I	B - B	J - J	B - Z	Z - Z	G - F
4.3	I - I	B - B	J - J	B - Z	Z - Z	G - F
4.9	I - I	B - B	J - J	B - Z	Z - Z	G - F
5.9	I - I	B - B	J - J	B - Z	Z - Z	G - F
6.5	I - I	B - B	J - J	B - Z	Z - Z	G - F
7.8	I - I	B - B	J - J	B - Z	Z - Z	G - F
9.8	I - I	B - B	J - J	B - Z	Z - Z	G - F

Table showing standard flange and thread combinations available in stock

Body (threads/flanges)														
	A		B		C		D		E		F		G
	H		I		J	Closed Body	Z							

X	1	U	25	02	F	B	B	A

Series	X	series XV
Group	1	group 1
Category	U	unidirectional motor
Displacement	25	3.8
Flange	02	Ø25.4 STANDARD EUROPEAN right rotation
Shaft	F	CO001 - Tapered 1:8 - ø10 - M7x1 - key thk.2.4
Body IN	B	inlet - 3/8" GAS
Body OUT	B	outlet - 3/8" GAS
Cover	A	standard



XU105

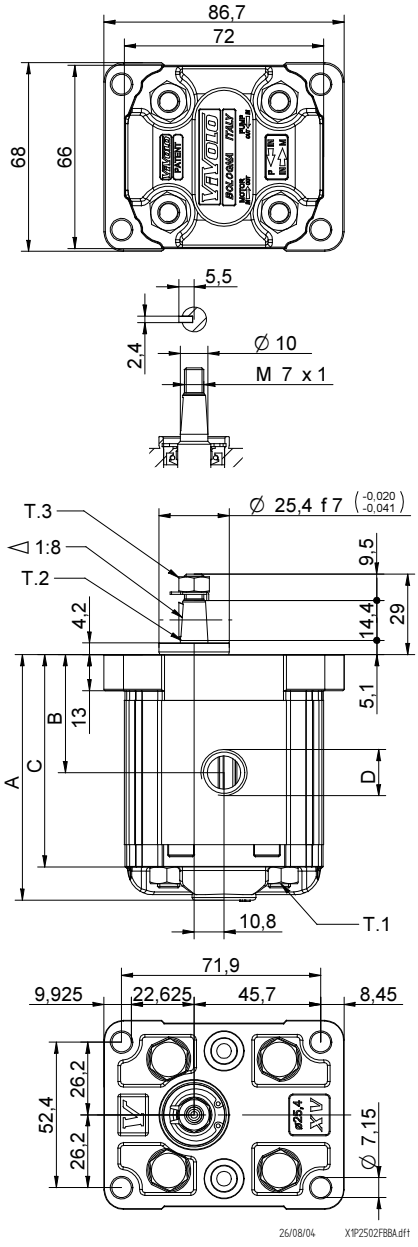
Technical data table

TYPE	Displacement	Max. Pressure		CODE	
	cm3/rev	P1 bar	P3 bar	Left rotation	Right rotation
XV-1U/0.9	0,91	240	280	X 1 U 16 01 F B B A	X 1 U 16 02 F B B A
XV-1U/1.2	1,17	250	290	X 1 U 17 01 F B B A	X 1 U 17 02 F B B A
XV-1U/1.7	1,56	250	290	X 1 U 18 01 F B B A	X 1 U 18 02 F B B A
XV-1U/2.2	2,08	250	290	X 1 U 20 01 F B B A	X 1 U 20 02 F B B A
XV-1U/2.6	2,60	250	300	X 1 U 21 01 F B B A	X 1 U 21 02 F B B A
XV-1U/3.2	3,12	250	300	X 1 U 23 01 F B B A	X 1 U 23 02 F B B A
XV-1U/3.8	3,64	250	300	X 1 U 25 01 F B B A	X 1 U 25 02 F B B A
XV-1U/4.3	4,16	250	300	X 1 U 27 01 F B B A	X 1 U 27 02 F B B A
XV-1U/4.9	4,94	250	300	X 1 U 29 01 F B B A	X 1 U 29 02 F B B A
XV-1U/5.9	5,85	250	300	X 1 U 31 01 F B B A	X 1 U 31 02 F B B A
XV-1U/6.5	6,50	250	300	X 1 U 32 01 F B B A	X 1 U 32 02 F B B A
XV-1U/7.8	7,54	220	260	X 1 U 34 01 F B B A	X 1 U 34 02 F B B A
XV-1U/9.8	9,88	190	230	X 1 U 36 01 F B B A	X 1 U 36 02 F B B A

P1) Max. working pressure - P3) Max. peak pressure
For heavy-duty applications, it is recommended to check the admissible torque of the shaft

Dimensions table

TYPE	Weight	A	B	C	D	D
	kg	mm	mm	mm	IN	OUT
XV-1U/0.9	0,950	78,1	37,3	66,1	3/8" BSPP	3/8" BSPP
XV-1U/1.2	0,970	79,0	37,8	67,0	3/8" BSPP	3/8" BSPP
XV-1U/1.7	1,010	80,5	38,5	68,5	3/8" BSPP	3/8" BSPP
XV-1U/2.2	1,030	82,5	39,5	70,5	3/8" BSPP	3/8" BSPP
XV-1U/2.6	1,060	84,5	40,5	72,5	3/8" BSPP	3/8" BSPP
XV-1U/3.2	1,090	86,5	41,5	74,5	3/8" BSPP	3/8" BSPP
XV-1U/3.8	1,120	88,5	42,5	76,5	3/8" BSPP	3/8" BSPP
XV-1U/4.3	1,170	90,5	43,5	78,5	3/8" BSPP	3/8" BSPP
XV-1U/4.9	1,200	93,5	45,0	81,5	3/8" BSPP	3/8" BSPP
XV-1U/5.9	1,260	97,0	46,8	85,0	3/8" BSPP	3/8" BSPP
XV-1U/6.5	1,300	98,5	48,0	86,5	3/8" BSPP	3/8" BSPP
XV-1U/7.8	1,360	103,5	50,0	91,5	3/8" BSPP	3/8" BSPP
XV-1U/9.8	1,500	112,5	54,5	100,5	3/8" BSPP	3/8" BSPP

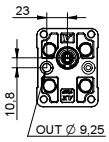
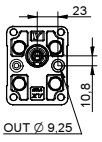
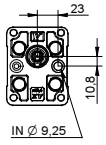
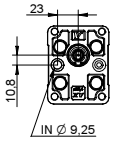
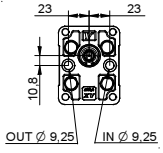
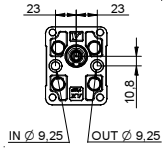


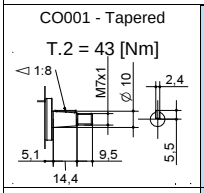
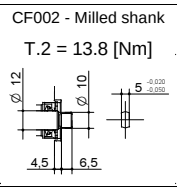
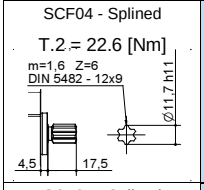
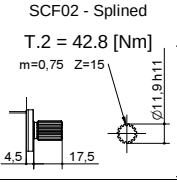
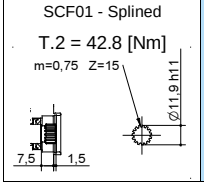
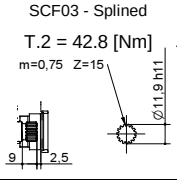
T.1 = 24.5÷29.4 [Nm] - screw tightening torque M8 T.3 = 11.5 [Nm] - torque wrench setting 11
T.2 = 43 [Nm] - admissible shaft torque (N.B. When choosing a shaft, always check the admissible torque).

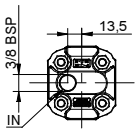
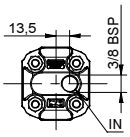
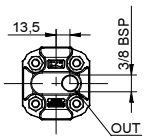
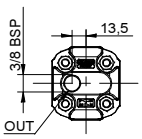
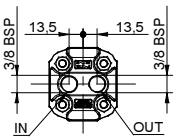
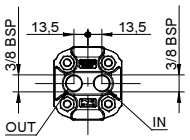
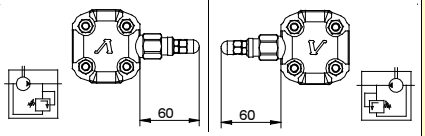
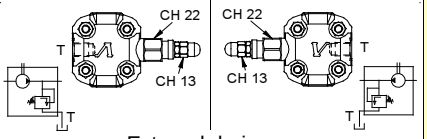
Table of variations

ø25.4 FLANGE

XV-1U

ø25.4 FLANGE			
Left rotation		Right rotation	
	01		02
	03		04
	05		06
	07		08

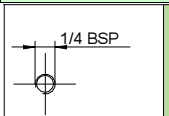
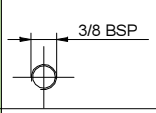
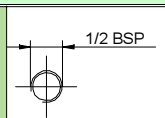
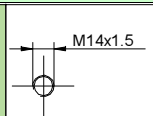
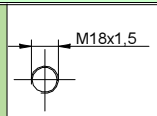
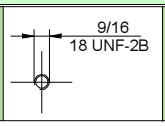
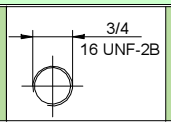
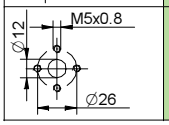
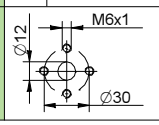
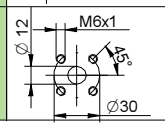
Shaft			
	F		D
	J		L
	Q		R

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

Displacement	
TYPE	CODE
XV-1U/0.9	**16**
XV-1U/1.2	**17**
XV-1U/1.7	**18**
XV-1U/2.2	**20**
XV-1U/2.6	**21**
XV-1U/3.2	**23**
XV-1U/3.8	**25**
XV-1U/4.3	**27**
XV-1U/4.9	**29**
XV-1U/5.9	**31**
XV-1U/6.5	**32**
XV-1U/7.8	**34**
XV-1U/9.8	**36**

Standard bodies						
Displacement cm3/rev	Standard threads					
0.9	I - I	B - B	J - J	B - Z	Z - Z	G - F
1.2	I - I	B - B	J - J	B - Z	Z - Z	G - F
1.7	I - I	B - B	J - J	B - Z	Z - Z	G - F
2.2	I - I	B - B	J - J	B - Z	Z - Z	G - F
2.6	I - I	B - B	J - J	B - Z	Z - Z	G - F
3.2	I - I	B - B	J - J	B - Z	Z - Z	G - F
3.8	I - I	B - B	J - J	B - Z	Z - Z	G - F
4.3	I - I	B - B	J - J	B - Z	Z - Z	G - F
4.9	I - I	B - B	J - J	B - Z	Z - Z	G - F
5.9	I - I	B - B	J - J	B - Z	Z - Z	G - F
6.5	I - I	B - B	J - J	B - Z	Z - Z	G - F
7.8	I - I	B - B	J - J	B - Z	Z - Z	G - F
9.8	I - I	B - B	J - J	B - Z	Z - Z	G - F

Table showing standard flange and thread combinations available in stock

Body (threads/flanges)														
	A		B		C		D		E		F		G
	H		I		J	Closed Body	Z							

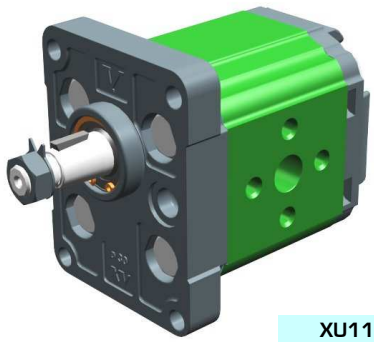
unidirectional motor - series XV

STANDARD MOTOR
ø30 FLANGE - TAPER SHAFT

XV-1U

X	1	U	25	12	G	I	I	A

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



XU113

Technical data table

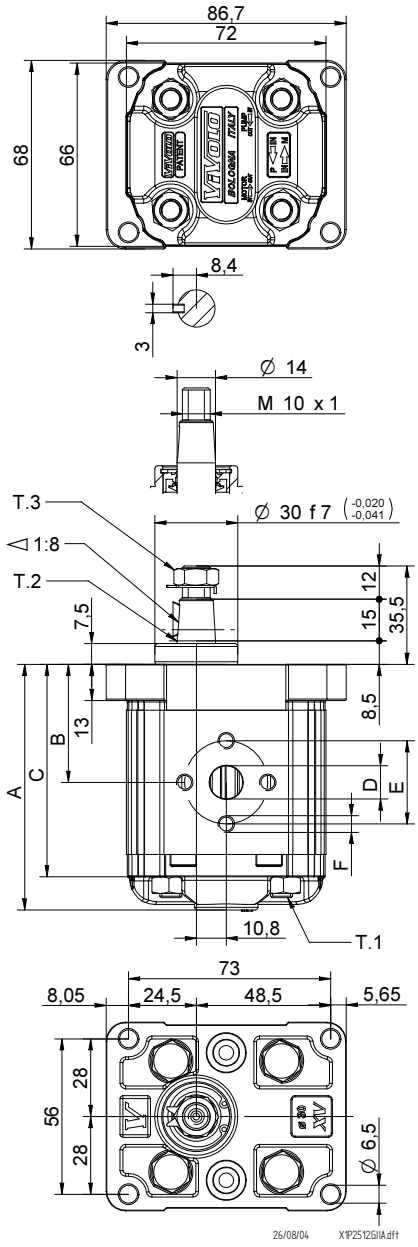
TYPE	Displacement	Max. Pressure		CODE	
	cm3/rev	P1 bar	P3 bar	Left rotation	Right rotation
XV-1U/0.9	0,91	240	280	X 1 U 16 11 G I I A	X 1 U 16 12 G I I A
XV-1U/1.2	1,17	250	290	X 1 U 17 11 G I I A	X 1 U 17 12 G I I A
XV-1U/1.7	1,56	250	290	X 1 U 18 11 G I I A	X 1 U 18 12 G I I A
XV-1U/2.2	2,08	250	290	X 1 U 20 11 G I I A	X 1 U 20 12 G I I A
XV-1U/2.6	2,60	250	300	X 1 U 21 11 G I I A	X 1 U 21 12 G I I A
XV-1U/3.2	3,12	250	300	X 1 U 23 11 G I I A	X 1 U 23 12 G I I A
XV-1U/3.8	3,64	250	300	X 1 U 25 11 G I I A	X 1 U 25 12 G I I A
XV-1U/4.3	4,16	250	300	X 1 U 27 11 G I I A	X 1 U 27 12 G I I A
XV-1U/4.9	4,94	250	300	X 1 U 29 11 G I I A	X 1 U 29 12 G I I A
XV-1U/5.9	5,85	250	300	X 1 U 31 11 G I I A	X 1 U 31 12 G I I A
XV-1U/6.5	6,50	250	300	X 1 U 32 11 G I I A	X 1 U 32 12 G I I A
XV-1U/7.8	7,54	220	260	X 1 U 34 11 G I I A	X 1 U 34 12 G I I A

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

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

Dimensions table

TYPE	Weight	A	B	C	D	E	F	D	E	F
	kg	mm	mm	mm	IN			OUT		
XV-1U/0.9	0,950	78,1	37,3	66,1	ø12	30	M6x1	ø12	30	M6x1
XV-1U/1.2	0,970	79,0	37,8	67,0	ø12	30	M6x1	ø12	30	M6x1
XV-1U/1.7	1,010	80,5	38,5	68,5	ø12	30	M6x1	ø12	30	M6x1
XV-1U/2.2	1,030	82,5	39,5	70,5	ø12	30	M6x1	ø12	30	M6x1
XV-1U/2.6	1,060	84,5	40,5	72,5	ø12	30	M6x1	ø12	30	M6x1
XV-1U/3.2	1,090	86,5	41,5	74,5	ø12	30	M6x1	ø12	30	M6x1
XV-1U/3.8	1,120	88,5	42,5	76,5	ø12	30	M6x1	ø12	30	M6x1
XV-1U/4.3	1,170	90,5	43,5	78,5	ø12	30	M6x1	ø12	30	M6x1
XV-1U/4.9	1,200	93,5	45,0	81,5	ø12	30	M6x1	ø12	30	M6x1
XV-1U/5.9	1,260	97,0	46,8	85,0	ø12	30	M6x1	ø12	30	M6x1
XV-1U/6.5	1,300	98,5	48,0	86,5	ø12	30	M6x1	ø12	30	M6x1
XV-1U/7.8	1,360	103,5	50,0	91,5	ø12	30	M6x1	ø12	30	M6x1



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

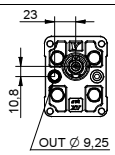
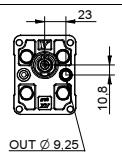
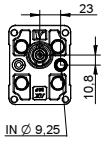
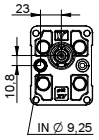
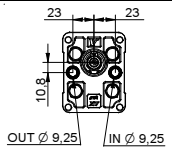
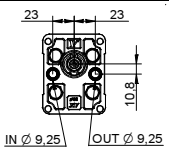
T.2 = 119.8 [Nm] - admissible shaft torque (N.B. When choosing a shaft, always check the admissible torque).

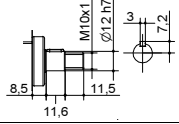
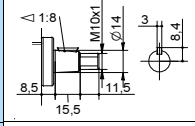
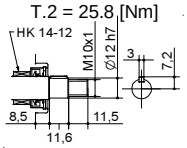
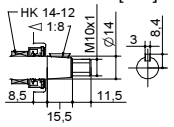
T.3 = 13 [Nm] - torque wrench setting 17

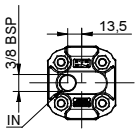
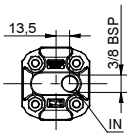
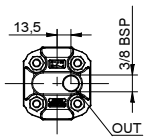
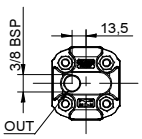
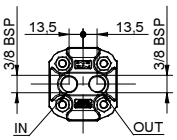
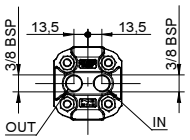
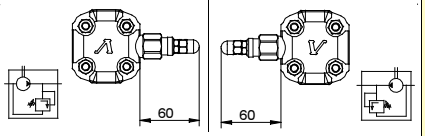
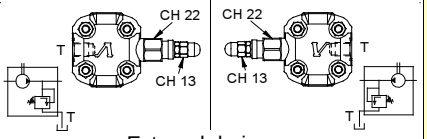
Table of variations

ø30 FLANGE

XV-1U

ø30 FLANGE			
Left rotation		Right rotation	
	11		12
	13		14
	15		16
	17		18

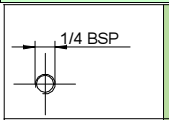
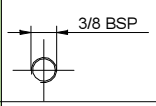
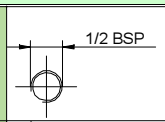
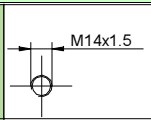
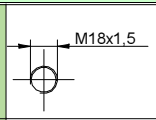
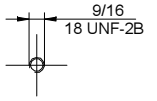
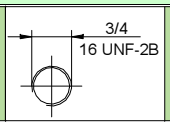
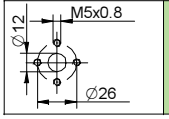
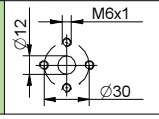
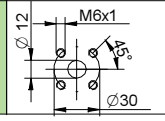
Shaft			
CI001 - Parallel		CO002 - Tapered	
T.2 = 25.8 [Nm]	A	T.2 = 119.8 [Nm]	G
			
CI001+HK - Parallel		CO002+HK - Tapered	
T.2 = 25.8 [Nm]	P	T.2 = 119.8 [Nm]	O
			

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

Displacement	
TYPE	CODE
XV-1U/0.9	**16**
XV-1U/1.2	**17**
XV-1U/1.7	**18**
XV-1U/2.2	**20**
XV-1U/2.6	**21**
XV-1U/3.2	**23**
XV-1U/3.8	**25**
XV-1U/4.3	**27**
XV-1U/4.9	**29**
XV-1U/5.9	**31**
XV-1U/6.5	**32**
XV-1U/7.8	**34**

Standard bodies						
Displacement cm3/rev	Standard threads					
0.9	I - I	B - B	J - J	B - Z	Z - Z	G - F
1.2	I - I	B - B	J - J	B - Z	Z - Z	G - F
1.7	I - I	B - B	J - J	B - Z	Z - Z	G - F
2.2	I - I	B - B	J - J	B - Z	Z - Z	G - F
2.6	I - I	B - B	J - J	B - Z	Z - Z	G - F
3.2	I - I	B - B	J - J	B - Z	Z - Z	G - F
3.8	I - I	B - B	J - J	B - Z	Z - Z	G - F
4.3	I - I	B - B	J - J	B - Z	Z - Z	G - F
4.9	I - I	B - B	J - J	B - Z	Z - Z	G - F
5.9	I - I	B - B	J - J	B - Z	Z - Z	G - F
6.5	I - I	B - B	J - J	B - Z	Z - Z	G - F
7.8	I - I	B - B	J - J	B - Z	Z - Z	G - F
9.8	I - I	B - B	J - J	B - Z	Z - Z	G - F

Table showing standard flange and thread combinations available in stock

Body (threads/flanges)															
	A		B		C		D		E		F		G
	H		I		J	Closed Body	Z								

unidirectional motor - series XV

XV-1U

BH TYPE MOTOR
ø32 BODY-SHAPED FLANGE - MILLED SHANK

X	1	U	25	42	D	B	B	A

Series	X	series XV
Group	1	group 1
Category	U	unidirectional motor
Displacement	25	3.8
Flange	42	Ø32 BH right rotation
Shaft	D	CF002 - Milled shank ø10 - thk.5
Body IN	B	inlet - 3/8" GAS
Body OUT	B	outlet - 3/8" GAS
Cover	A	standard

XU119

Technical data table

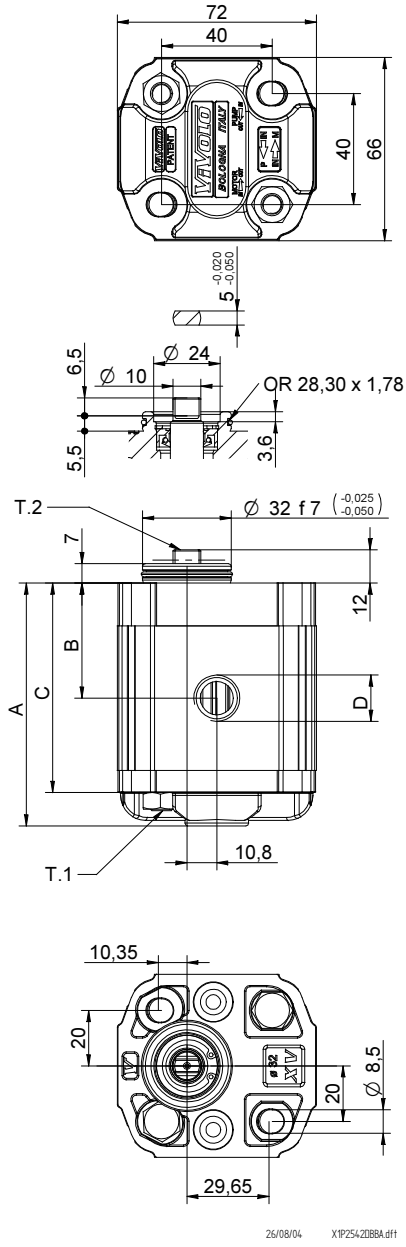
TYPE	Displacement	Max. Pressure		CODE	
	cm3/rev	P1 bar	P3 bar	Left rotation	Right rotation
XV-1U/0.9	0,91	240	280	X 1 U 16 41 D B B A	X 1 U 16 42 D B B A
XV-1U/1.2	1,17	250	290	X 1 U 17 41 D B B A	X 1 U 17 42 D B B A
XV-1U/1.7	1,56	250	290	X 1 U 18 41 D B B A	X 1 U 18 42 D B B A
XV-1U/2.2	2,08	250	290	X 1 U 20 41 D B B A	X 1 U 20 42 D B B A
XV-1U/2.6	2,60	250	300	X 1 U 21 41 D B B A	X 1 U 21 42 D B B A
XV-1U/3.2	3,12	250	300	X 1 U 23 41 D B B A	X 1 U 23 42 D B B A
XV-1U/3.8	3,64	250	300	X 1 U 25 41 D B B A	X 1 U 25 42 D B B A
XV-1U/4.3	4,16	250	300	X 1 U 27 41 D B B A	X 1 U 27 42 D B B A
XV-1U/4.9	4,94	250	300	X 1 U 29 41 D B B A	X 1 U 29 42 D B B A
XV-1U/5.9	5,85	250	300	X 1 U 31 41 D B B A	X 1 U 31 42 D B B A
XV-1U/6.5	6,50	250	300	X 1 U 32 41 D B B A	X 1 U 32 42 D B B A
XV-1U/7.8	7,54	220	260	X 1 U 34 41 D B B A	X 1 U 34 42 D B B A
XV-1U/9.8	9,88	190	230	X 1 U 36 41 D B B A	X 1 U 36 42 D B B A

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

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

Dimensions table

TYPE	Weight	A	B	C	D	D
	kg	mm	mm	mm	IN	OUT
XV-1U/0.9	0,950	77,1	36,3	65,1	3/8" BSPP	3/8" BSPP
XV-1U/1.2	0,970	78,0	36,8	66,0	3/8" BSPP	3/8" BSPP
XV-1U/1.7	1,010	79,5	37,5	67,5	3/8" BSPP	3/8" BSPP
XV-1U/2.2	1,030	81,5	38,5	69,5	3/8" BSPP	3/8" BSPP
XV-1U/2.6	1,060	83,5	39,5	71,5	3/8" BSPP	3/8" BSPP
XV-1U/3.2	1,090	85,5	40,5	73,5	3/8" BSPP	3/8" BSPP
XV-1U/3.8	1,120	87,5	41,5	75,5	3/8" BSPP	3/8" BSPP
XV-1U/4.3	1,170	89,5	42,5	77,5	3/8" BSPP	3/8" BSPP
XV-1U/4.9	1,200	92,5	44,0	80,5	3/8" BSPP	3/8" BSPP
XV-1U/5.9	1,260	96,0	45,8	84,0	3/8" BSPP	3/8" BSPP
XV-1U/6.5	1,300	97,5	47,0	85,5	3/8" BSPP	3/8" BSPP
XV-1U/7.8	1,360	102,5	49,0	90,5	3/8" BSPP	3/8" BSPP
XV-1U/9.8	1,500	111,5	53,5	99,5	3/8" BSPP	3/8" BSPP



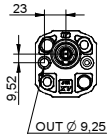
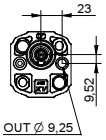
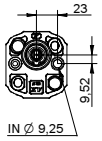
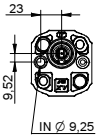
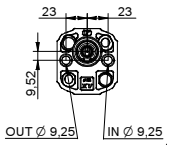
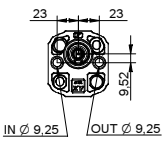
T.1 = 24.5÷29.4 [Nm] - screw tightening torque M8

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

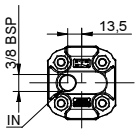
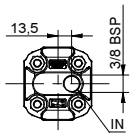
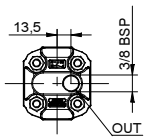
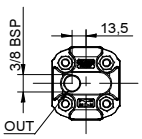
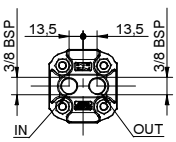
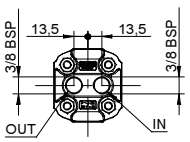
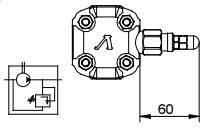
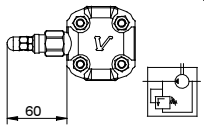
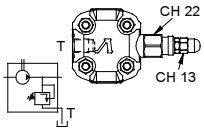
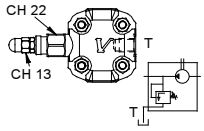
Table of variations

ø32 "BH" Body-Shaped FLANGE

XV-1U

ø32 "BH" Body-Shaped FLANGE			
Left rotation		Right rotation	
	41		42
	43		44
	45		46
	47		48

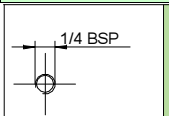
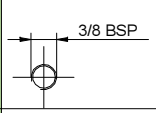
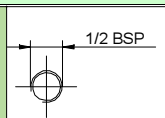
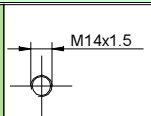
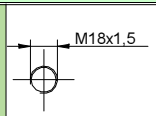
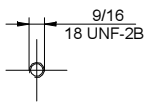
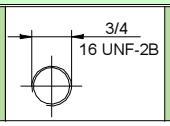
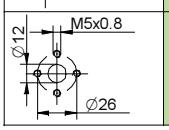
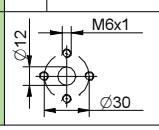
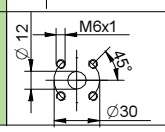
Shaft			
CF002 - Milled shank T.2 = 13.8 [Nm]	D	CO001 - Tapered T.2 = 43 [Nm]	F
SCF02 - Splined T.2 = 42.8 [Nm]	L	SCF04 - Splined T.2 = 22.6 [Nm]	J
SCF01 - Splined T.2 = 42.8 [Nm]	Q	SCF03 - Splined T.2 = 42.8 [Nm]	R

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

Displacement	
TYPE	CODE
XV-1U/0.9	**16**
XV-1U/1.2	**17**
XV-1U/1.7	**18**
XV-1U/2.2	**20**
XV-1U/2.6	**21**
XV-1U/3.2	**23**
XV-1U/3.8	**25**
XV-1U/4.3	**27**
XV-1U/4.9	**29**
XV-1U/5.9	**31**
XV-1U/6.5	**32**
XV-1U/7.8	**34**
XV-1U/9.8	**36**

Standard bodies							
Displacement cm3/rev	Standard threads						
0.9	I - I	B - B	J - J	B - Z	Z - Z	G - F	
1.2	I - I	B - B	J - J	B - Z	Z - Z	G - F	
1.7	I - I	B - B	J - J	B - Z	Z - Z	G - F	
2.2	I - I	B - B	J - J	B - Z	Z - Z	G - F	
2.6	I - I	B - B	J - J	B - Z	Z - Z	G - F	
3.2	I - I	B - B	J - J	B - Z	Z - Z	G - F	
3.8	I - I	B - B	J - J	B - Z	Z - Z	G - F	
4.3	I - I	B - B	J - J	B - Z	Z - Z	G - F	
4.9	I - I	B - B	J - J	B - Z	Z - Z	G - F	
5.9	I - I	B - B	J - J	B - Z	Z - Z	G - F	
6.5	I - I	B - B	J - J	B - Z	Z - Z	G - F	
7.8	I - I	B - B	J - J	B - Z	Z - Z	G - F	
9.8	I - I	B - B	J - J	B - Z	Z - Z	G - F	

Table showing standard flange and thread combinations available in stock

Body (threads/flanges)														
	A		B		C		D		E		F		G	
	H		I		J	Closed Body	Z							

X	1	U	25	52	D	B	B	A

Series	X	series XV
Group	1	group 1
Category	U	unidirectional motor
Displacement	25	3.8
Flange	52	Ø32 HY right rotation
Shaft	D	CF002 - Milled shank ø10 - thk.5
Body IN	B	inlet - 3/8" GAS
Body OUT	B	outlet - 3/8" GAS
Cover	A	standard

XU140

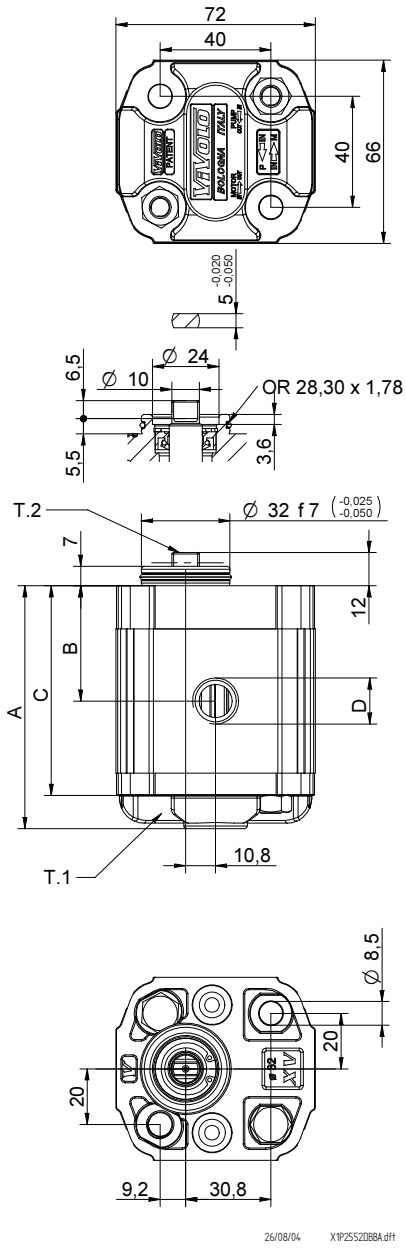
Technical data table

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

P1) Max. working pressure - P3) Max. peak pressure
For heavy-duty applications, it is recommended to check the admissible torque of the shaft

Dimensions table

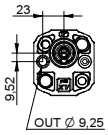
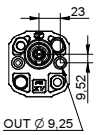
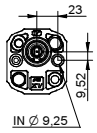
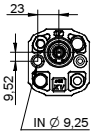
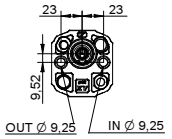
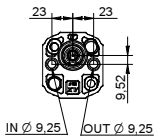
TYPE	Weight	A	B	C	D	D
	kg	mm	mm	mm	IN	OUT
XV-1U/0.9	0,950	77,1	36,3	65,1	3/8" BSPP	3/8" BSPP
XV-1U/1.2	0,970	78,0	36,8	66,0	3/8" BSPP	3/8" BSPP
XV-1U/1.7	1,010	79,5	37,5	67,5	3/8" BSPP	3/8" BSPP
XV-1U/2.2	1,030	81,5	38,5	69,5	3/8" BSPP	3/8" BSPP
XV-1U/2.6	1,060	83,5	39,5	71,5	3/8" BSPP	3/8" BSPP
XV-1U/3.2	1,090	85,5	40,5	73,5	3/8" BSPP	3/8" BSPP
XV-1U/3.8	1,120	87,5	41,5	75,5	3/8" BSPP	3/8" BSPP
XV-1U/4.3	1,170	89,5	42,5	77,5	3/8" BSPP	3/8" BSPP
XV-1U/4.9	1,200	92,5	44,0	80,5	3/8" BSPP	3/8" BSPP
XV-1U/5.9	1,260	96,0	45,8	84,0	3/8" BSPP	3/8" BSPP
XV-1U/6.5	1,300	97,5	47,0	85,5	3/8" BSPP	3/8" BSPP
XV-1U/7.8	1,360	102,5	49,0	90,5	3/8" BSPP	3/8" BSPP
XV-1U/9.8	1,500	111,5	53,5	99,5	3/8" BSPP	3/8" BSPP

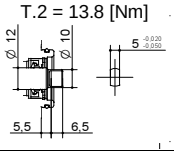
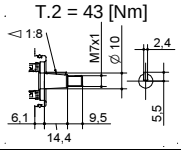
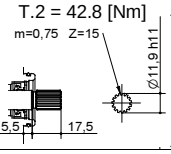
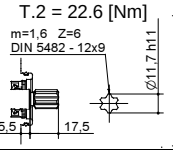
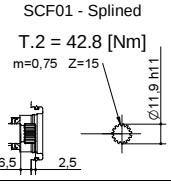
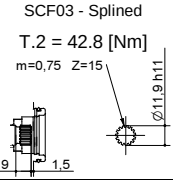


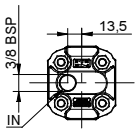
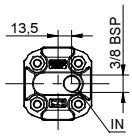
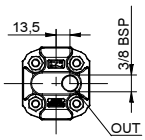
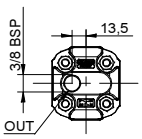
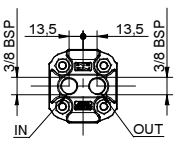
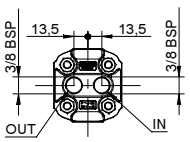
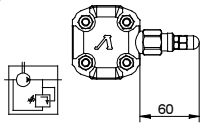
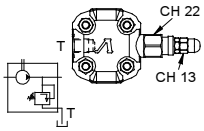
T.1 = 24.5÷29.4 [Nm] - screw tightening torque M8
T.2 = 13.8 [Nm] - admissible shaft torque (N.B. When choosing a shaft, always check the admissible torque).

Table of variations

ø32 "HY" Body-Shaped FLANGE

ø32 "HY" Body-Shaped FLANGE			
Left rotation		Right rotation	
	51		52
	53		54
	55		56
	57		58

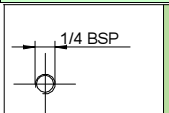
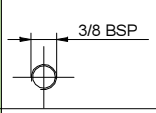
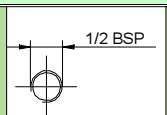
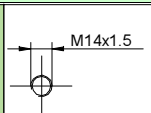
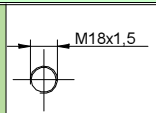
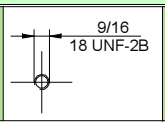
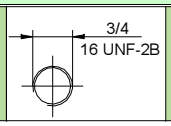
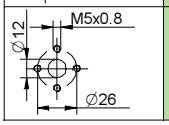
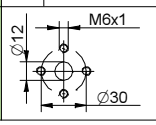
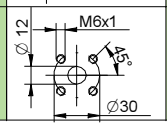
Shaft			
CF002 - Milled shank		CO001 - Tapered	
T.2 = 13.8 [Nm]	D	T.2 = 43 [Nm]	F
			
SCF02 - Splined		SCF04 - Splined	
T.2 = 42.8 [Nm]	L	T.2 = 22.6 [Nm]	J
			
SCF01 - Splined		SCF03 - Splined	
T.2 = 42.8 [Nm]	Q	T.2 = 42.8 [Nm]	R
			

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

Displacement	
TYPE	CODE
XV-1U/0.9	**16**
XV-1U/1.2	**17**
XV-1U/1.7	**18**
XV-1U/2.2	**20**
XV-1U/2.6	**21**
XV-1U/3.2	**23**
XV-1U/3.8	**25**
XV-1U/4.3	**27**
XV-1U/4.9	**29**
XV-1U/5.9	**31**
XV-1U/6.5	**32**
XV-1U/7.8	**34**
XV-1U/9.8	**36**

Standard bodies							
Displacement cm3/rev	Standard threads						
0.9	I - I	B - B	J - J	B - Z	Z - Z	G - F	
1.2	I - I	B - B	J - J	B - Z	Z - Z	G - F	
1.7	I - I	B - B	J - J	B - Z	Z - Z	G - F	
2.2	I - I	B - B	J - J	B - Z	Z - Z	G - F	
2.6	I - I	B - B	J - J	B - Z	Z - Z	G - F	
3.2	I - I	B - B	J - J	B - Z	Z - Z	G - F	
3.8	I - I	B - B	J - J	B - Z	Z - Z	G - F	
4.3	I - I	B - B	J - J	B - Z	Z - Z	G - F	
4.9	I - I	B - B	J - J	B - Z	Z - Z	G - F	
5.9	I - I	B - B	J - J	B - Z	Z - Z	G - F	
6.5	I - I	B - B	J - J	B - Z	Z - Z	G - F	
7.8	I - I	B - B	J - J	B - Z	Z - Z	G - F	
9.8	I - I	B - B	J - J	B - Z	Z - Z	G - F	

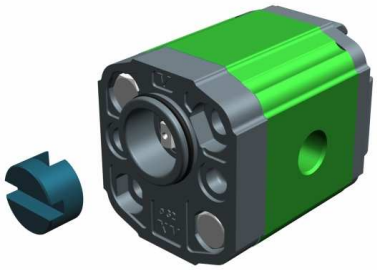
Table showing standard flange and thread combinations available in stock

Body (threads/flanges)														
	A		B		C		D		E		F		G
	H		I		J	Closed Body	Z							

STANDARD GERMAN "BH" TYPE MOTOR
ø32 BODY-SHAPED FLANGE - MILLED SHANK

X	1	U	25	32	C	B	B	A

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



XU161

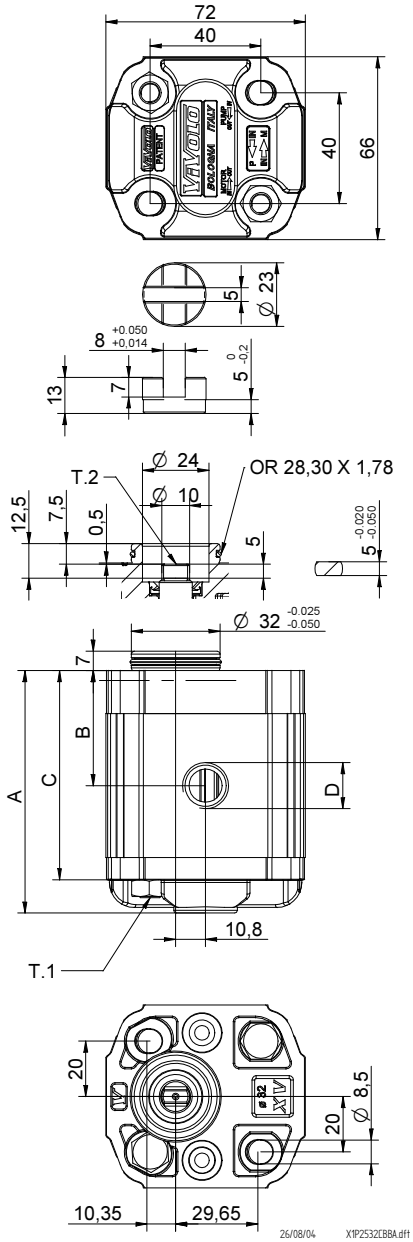
Technical data table

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

P1) Max. working pressure - P3) Max. peak pressure
For heavy-duty applications, it is recommended to check the admissible torque of the shaft

Dimensions table

TYPE	Weight	A	B	C	D	D
	kg	mm	mm	mm	IN	OUT
XV-1U/0.9	0,950	77,1	36,3	65,1	3/8" BSPP	3/8" BSPP
XV-1U/1.2	0,970	78,0	36,8	66,0	3/8" BSPP	3/8" BSPP
XV-1U/1.7	1,010	79,5	37,5	67,5	3/8" BSPP	3/8" BSPP
XV-1U/2.2	1,030	81,5	38,5	69,5	3/8" BSPP	3/8" BSPP
XV-1U/2.6	1,060	83,5	39,5	71,5	3/8" BSPP	3/8" BSPP
XV-1U/3.2	1,090	85,5	40,5	73,5	3/8" BSPP	3/8" BSPP
XV-1U/3.8	1,120	87,5	41,5	75,5	3/8" BSPP	3/8" BSPP
XV-1U/4.3	1,170	89,5	42,5	77,5	3/8" BSPP	3/8" BSPP
XV-1U/4.9	1,200	92,5	44,0	80,5	3/8" BSPP	3/8" BSPP
XV-1U/5.9	1,260	96,0	45,8	84,0	3/8" BSPP	3/8" BSPP
XV-1U/6.5	1,300	97,5	47,0	85,5	3/8" BSPP	3/8" BSPP
XV-1U/7.8	1,360	102,5	49,0	90,5	3/8" BSPP	3/8" BSPP
XV-1U/9.8	1,500	111,5	53,5	99,5	3/8" BSPP	3/8" BSPP

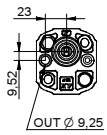
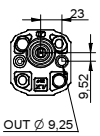
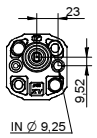
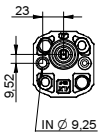
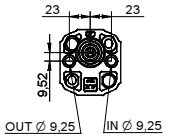
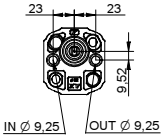


T.1 = 24.5÷29.4 [Nm] - screw tightening torque M8
T.2 = 13.8 [Nm] - admissible shaft torque (N.B. When choosing a shaft, always check the admissible torque).

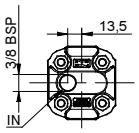
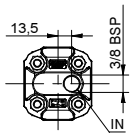
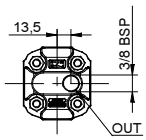
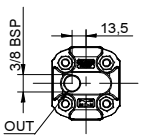
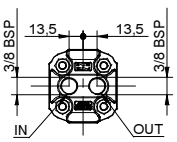
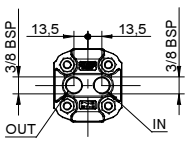
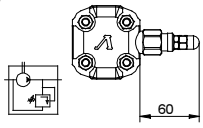
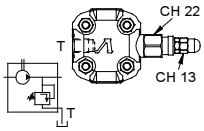
Table of variations

Standard German ø32 "BH" FLANGE

XV-1U

Standard German ø32 "BH" FLANGE			
Left rotation		Right rotation	
	31		32
	33		34
	35		36
	37		38

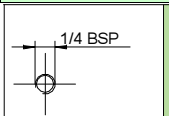
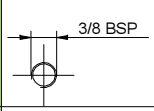
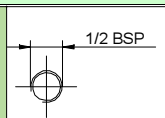
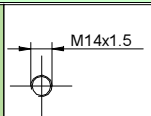
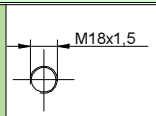
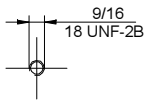
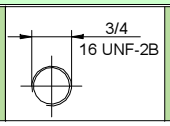
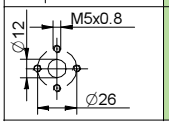
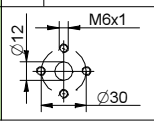
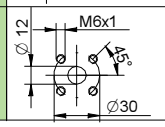
Shaft			
CF001 - Milled shank T.2 = 13.8 [Nm]	C	SCF01 - Splined T.2 = 42.8 [Nm]	Q
SCF03 - Splined T.2 = 42.8 [Nm]	R		

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

Displacement	
TYPE	CODE
XV-1U/0.9	**16**
XV-1U/1.2	**17**
XV-1U/1.7	**18**
XV-1U/2.2	**20**
XV-1U/2.6	**21**
XV-1U/3.2	**23**
XV-1U/3.8	**25**
XV-1U/4.3	**27**
XV-1U/4.9	**29**
XV-1U/5.9	**31**
XV-1U/6.5	**32**
XV-1U/7.8	**34**
XV-1U/9.8	**36**

Standard bodies						
Displacement cm3/rev	Standard threads					
0.9	I - I	B - B	J - J	B - Z	Z - Z	G - F
1.2	I - I	B - B	J - J	B - Z	Z - Z	G - F
1.7	I - I	B - B	J - J	B - Z	Z - Z	G - F
2.2	I - I	B - B	J - J	B - Z	Z - Z	G - F
2.6	I - I	B - B	J - J	B - Z	Z - Z	G - F
3.2	I - I	B - B	J - J	B - Z	Z - Z	G - F
3.8	I - I	B - B	J - J	B - Z	Z - Z	G - F
4.3	I - I	B - B	J - J	B - Z	Z - Z	G - F
4.9	I - I	B - B	J - J	B - Z	Z - Z	G - F
5.9	I - I	B - B	J - J	B - Z	Z - Z	G - F
6.5	I - I	B - B	J - J	B - Z	Z - Z	G - F
7.8	I - I	B - B	J - J	B - Z	Z - Z	G - F
9.8	I - I	B - B	J - J	B - Z	Z - Z	G - F

Table showing standard flange and thread combinations available in stock

Body (threads/flanges)														
	A		B		C		D		E		F		G
	H		I		J	Closed Body	Z							

X	1	U	25	62	B	B	B	A

Series	X	series XV
Group	1	group 1
Category	U	unidirectional motor
Displacement	25	3.8
Flange	62	Ø50.8 SAE AA right rotation
Shaft	B	CI002 - Parallel ø12.7 - key thk. 3.2 (SAE AA)
Body IN	B	inlet - 3/8" GAS
Body OUT	B	outlet - 3/8" GAS
Cover	A	standard

XU168

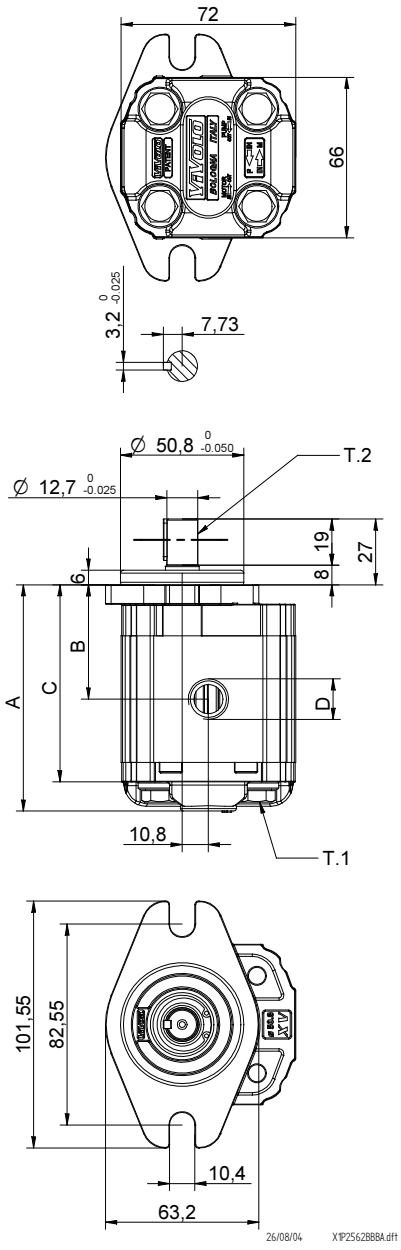
Technical data table

TYPE	Displacement	Max. Pressure		CODE	
	cm3/rev	P1 bar	P3 bar	Left rotation	Right rotation
XV-1U/0.9	0,91	240	280	X 1 U 16 61 B B B A	X 1 U 16 62 B B B A
XV-1U/1.2	1,17	250	290	X 1 U 17 61 B B B A	X 1 U 17 62 B B B A
XV-1U/1.7	1,56	250	290	X 1 U 18 61 B B B A	X 1 U 18 62 B B B A
XV-1U/2.2	2,08	250	290	X 1 U 20 61 B B B A	X 1 U 20 62 B B B A
XV-1U/2.6	2,60	250	300	X 1 U 21 61 B B B A	X 1 U 21 62 B B B A
XV-1U/3.2	3,12	250	300	X 1 U 23 61 B B B A	X 1 U 23 62 B B B A
XV-1U/3.8	3,64	250	300	X 1 U 25 61 B B B A	X 1 U 25 62 B B B A
XV-1U/4.3	4,16	250	300	X 1 U 27 61 B B B A	X 1 U 27 62 B B B A
XV-1U/4.9	4,94	250	300	X 1 U 29 61 B B B A	X 1 U 29 62 B B B A
XV-1U/5.9	5,85	250	300	X 1 U 31 61 B B B A	X 1 U 31 62 B B B A
XV-1U/6.5	6,50	250	300	X 1 U 32 61 B B B A	X 1 U 32 62 B B B A
XV-1U/7.8	7,54	220	260	X 1 U 34 61 B B B A	X 1 U 34 62 B B B A
XV-1U/9.8	9,88	190	230	X 1 U 36 61 B B B A	X 1 U 36 62 B B B A

P1) Max. working pressure - P3) Max. peak pressure
For heavy-duty applications, it is recommended to check the admissible torque of the shaft

Dimensions table

TYPE	Weight	A	B	C	D	D
	kg	mm	mm	mm	IN	OUT
XV-1U/0.9	1,000	82,6	41,8	70,6	3/8" BSPP	3/8" BSPP
XV-1U/1.2	1,020	83,5	42,3	71,5	3/8" BSPP	3/8" BSPP
XV-1U/1.7	1,060	85,0	43,0	73,0	3/8" BSPP	3/8" BSPP
XV-1U/2.2	1,080	87,0	44,0	75,0	3/8" BSPP	3/8" BSPP
XV-1U/2.6	1,110	89,0	45,0	77,0	3/8" BSPP	3/8" BSPP
XV-1U/3.2	1,140	91,0	46,0	79,0	3/8" BSPP	3/8" BSPP
XV-1U/3.8	1,170	93,0	47,0	81,0	3/8" BSPP	3/8" BSPP
XV-1U/4.3	1,220	95,0	48,0	83,0	3/8" BSPP	3/8" BSPP
XV-1U/4.9	1,250	98,0	49,5	86,0	3/8" BSPP	3/8" BSPP
XV-1U/5.9	1,310	101,5	51,3	89,5	3/8" BSPP	3/8" BSPP
XV-1U/6.5	1,350	105,0	52,5	93,0	3/8" BSPP	3/8" BSPP
XV-1U/7.8	1,410	108,0	54,5	96,0	3/8" BSPP	3/8" BSPP
XV-1U/9.8	1,550	117,0	59,0	105,0	3/8" BSPP	3/8" BSPP



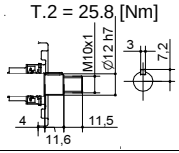
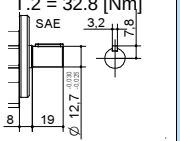
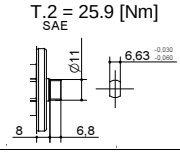
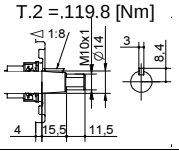
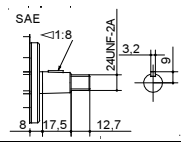
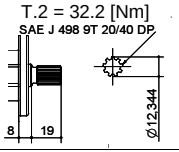
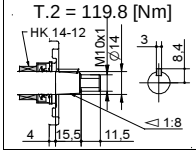
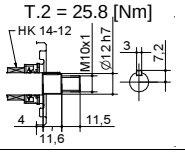
T.1 = 24.5÷29.4 [Nm] - screw tightening torque M8
T.2 = 32.8 [Nm] - admissible shaft torque (N.B. When choosing a shaft, always check the admissible torque).

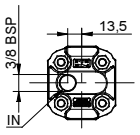
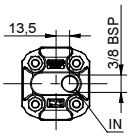
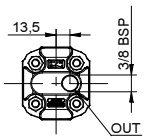
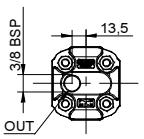
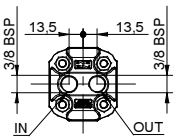
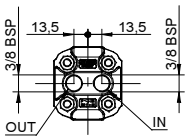
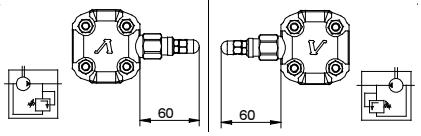
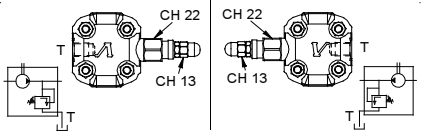
Table of variations

ø50.8 FLANGE "SAE AA"

XV-1U

ø50.8 FLANGE "SAE AA"			
Left rotation		Right rotation	
	61		62

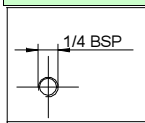
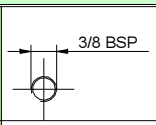
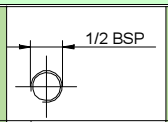
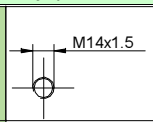
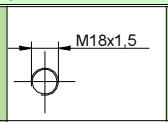
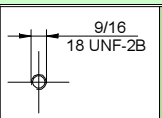
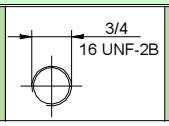
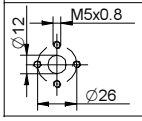
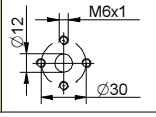
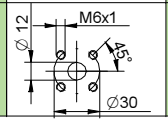
Shaft			
CI001 - Parallel T.2 = 25.8 [Nm] 	A	CI002 - Parallel T.2 = 32.8 [Nm] 	B
CF003 - Milled shank T.2 = 25.9 [Nm] 	E	CO002 - Tapered T.2 =.119.8 [Nm] 	G
	I	SCF05 - Splined T.2 = 32.2 [Nm] 	K
CO002+HK - Tapered T.2 = 119.8 [Nm] 	O	CI001+HK - Parallel T.2 = 25.8 [Nm] 	P

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

Displacement	
TYPE	CODE
XV-1U/0.9	16
XV-1U/1.2	17
XV-1U/1.7	18
XV-1U/2.2	20
XV-1U/2.6	21
XV-1U/3.2	23
XV-1U/3.8	25
XV-1U/4.3	27
XV-1U/4.9	29
XV-1U/5.9	31
XV-1U/6.5	32
XV-1U/7.8	34
XV-1U/9.8	36

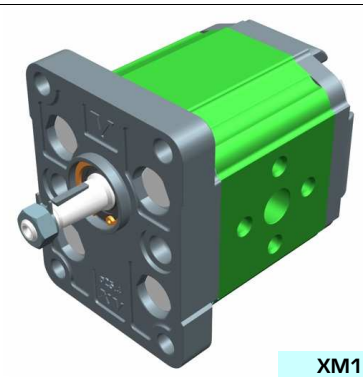
Standard bodies						
Displacement cm3/rev	Standard threads					
0.9	I - I	B - B	J - J	B - Z	Z - Z	G - F
1.2	I - I	B - B	J - J	B - Z	Z - Z	G - F
1.7	I - I	B - B	J - J	B - Z	Z - Z	G - F
2.2	I - I	B - B	J - J	B - Z	Z - Z	G - F
2.6	I - I	B - B	J - J	B - Z	Z - Z	G - F
3.2	I - I	B - B	J - J	B - Z	Z - Z	G - F
3.8	I - I	B - B	J - J	B - Z	Z - Z	G - F
4.3	I - I	B - B	J - J	B - Z	Z - Z	G - F
4.9	I - I	B - B	J - J	B - Z	Z - Z	G - F
5.9	I - I	B - B	J - J	B - Z	Z - Z	G - F
6.5	I - I	B - B	J - J	B - Z	Z - Z	G - F
7.8	I - I	B - B	J - J	B - Z	Z - Z	G - F
9.8	I - I	B - B	J - J	B - Z	Z - Z	G - F

Table showing standard flange and thread combinations available in stock

Body (threads/flanges)															
 1/4 BSP	A	 3/8 BSP	B	 1/2 BSP	C	 M14x1.5	D	 M18x1,5	E	 9/16 18 UNF-2B	F	 3/4 16 UNF-2B	G		
 M5x0.8	H	 M6x1	I	 M6x1	J	Closed Body	Z								

X	1	M	25	01	F	I	I	E

Series	X	series XV
Group	1	group 1
Category	M	reversible motor
Displacement	25	3.8
Flange	01	Ø25.4 STANDARD EUROPEAN reversible rotation
Shaft	F	CO001 - Tapered 1:8 - ø10 - M7x1 - key thk.2.4
Body IN	I	inlet - Ø30 Ø12 M6
Body OUT	I	outlet - Ø30 Ø12 M6
Cover	E	with drainage 1/4" BSP



XM101

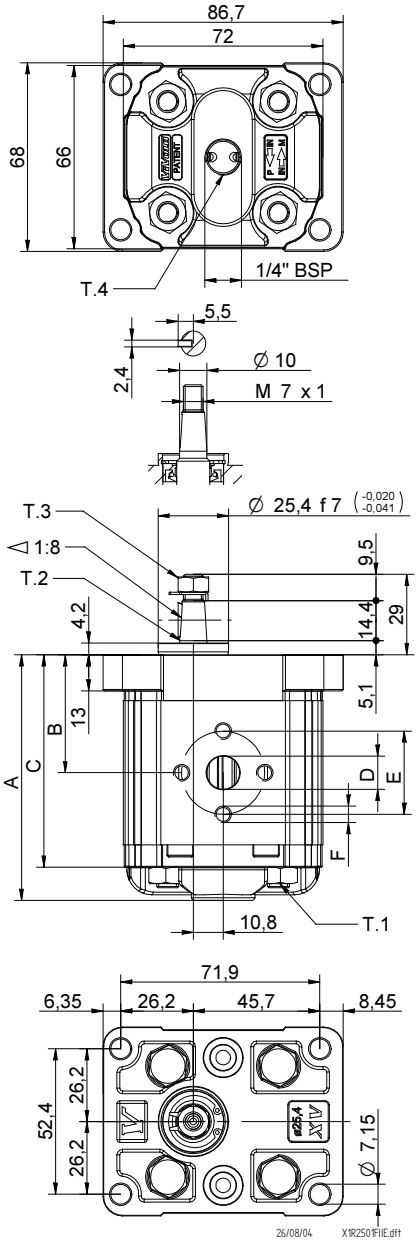
Technical data table

TYPE	Displacement	Max. Pressure		CODE															
	cm3/rev	P1 bar	P3 bar	External drainage								Internal drainage							
XV-1M/0.9	0,91	240	280	X	1	M	16	01	F	I	I	E	X	1	M	16	01	F	I	I	F
XV-1M/1.2	1,17	250	290	X	1	M	17	01	F	I	I	E	X	1	M	17	01	F	I	I	F
XV-1M/1.7	1,56	250	290	X	1	M	18	01	F	I	I	E	X	1	M	18	01	F	I	I	F
XV-1M/2.2	2,08	250	290	X	1	M	20	01	F	I	I	E	X	1	M	20	01	F	I	I	F
XV-1M/2.6	2,60	250	300	X	1	M	21	01	F	I	I	E	X	1	M	21	01	F	I	I	F
XV-1M/3.2	3,12	250	300	X	1	M	23	01	F	I	I	E	X	1	M	23	01	F	I	I	F
XV-1M/3.8	3,64	250	300	X	1	M	25	01	F	I	I	E	X	1	M	25	01	F	I	I	F
XV-1M/4.3	4,16	250	300	X	1	M	27	01	F	I	I	E	X	1	M	27	01	F	I	I	F
XV-1M/4.9	4,94	250	300	X	1	M	29	01	F	I	I	E	X	1	M	29	01	F	I	I	F
XV-1M/5.9	5,85	250	300	X	1	M	31	01	F	I	I	E	X	1	M	31	01	F	I	I	F
XV-1M/6.5	6,50	250	300	X	1	M	32	01	F	I	I	E	X	1	M	32	01	F	I	I	F
XV-1M/7.8	7,54	220	260	X	1	M	34	01	F	I	I	E	X	1	M	34	01	F	I	I	F
XV-1M/9.8	9,88	190	230	X	1	M	36	01	F	I	I	E	X	1	M	36	01	F	I	I	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	C	D	E	F	D	E	F
	kg	mm	mm	mm	IN			OUT		
XV-1M/0.9	0,950	78,1	37,3	66,1	ø12	30	M6x1	ø12	30	M6x1
XV-1M/1.2	0,970	79,0	37,8	67,0	ø12	30	M6x1	ø12	30	M6x1
XV-1M/1.7	1,010	80,5	38,5	68,5	ø12	30	M6x1	ø12	30	M6x1
XV-1M/2.2	1,030	82,5	39,5	70,5	ø12	30	M6x1	ø12	30	M6x1
XV-1M/2.6	1,060	84,5	40,5	72,5	ø12	30	M6x1	ø12	30	M6x1
XV-1M/3.2	1,090	86,5	41,5	74,5	ø12	30	M6x1	ø12	30	M6x1
XV-1M/3.8	1,120	88,5	42,5	76,5	ø12	30	M6x1	ø12	30	M6x1
XV-1M/4.3	1,170	90,5	43,5	78,5	ø12	30	M6x1	ø12	30	M6x1
XV-1M/4.9	1,200	93,5	45,0	81,5	ø12	30	M6x1	ø12	30	M6x1
XV-1M/5.9	1,260	97,0	46,8	85,0	ø12	30	M6x1	ø12	30	M6x1
XV-1M/6.5	1,300	98,5	48,0	86,5	ø12	30	M6x1	ø12	30	M6x1
XV-1M/7.8	1,360	103,5	50,0	91,5	ø12	30	M6x1	ø12	30	M6x1
XV-1M/9.8	1,500	112,5	54,5	100,5	ø12	30	M6x1	ø12	30	M6x1

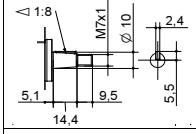
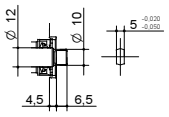
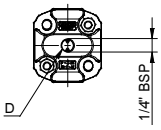
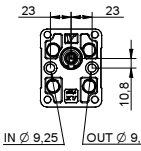
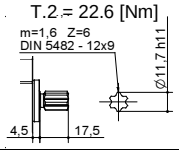
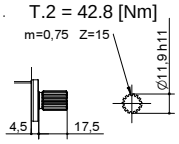
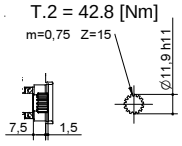
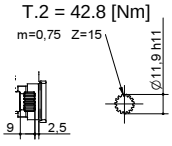
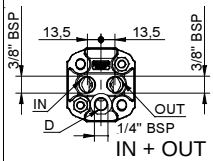
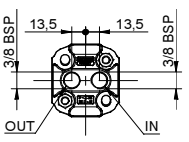


T.1 = 24.5÷29.4 [Nm] - screw tightening torque M8 T.3 = 11.5 [Nm] - torque wrench setting 11
T.2 = 43 [Nm] - admissible shaft torque (N.B. When choosing a shaft, always check the admissible torque).
T.4 = 0.3÷0,5 bar - max. drainage pressure

Table of variations

ø25.4 FLANGE

XV-1M

ø25.4 FLANGE		Shaft				Cover	
	01	CO001 - Tapered T.2 = 43 [Nm] 	F	CF002 - Milled shank T.2 = 13.8 [Nm] 	D	 External drainage	E
	04	SCF04 - Splined T.2 = 22.6 [Nm] 	J	SCF02 - Splined T.2 = 42.8 [Nm] 	L	 Internal drainage	F
		SCF01 - Splined T.2 = 42.8 [Nm] 	Q	SCF03 - Splined T.2 = 42.8 [Nm] 	R	 IN + OUT + external	K
						 IN + OUT + internal	L

Displacement	
TYPE	CODE
XV-1M/0.9	**16**
XV-1M/1.2	**17**
XV-1M/1.7	**18**
XV-1M/2.2	**20**
XV-1M/2.6	**21**
XV-1M/3.2	**23**
XV-1M/3.8	**25**
XV-1M/4.3	**27**
XV-1M/4.9	**29**
XV-1M/5.9	**31**
XV-1M/6.5	**32**
XV-1M/7.8	**34**
XV-1M/9.8	**36**

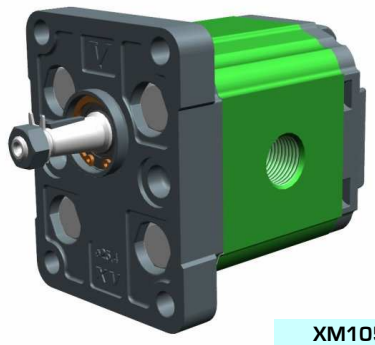
Standard bodies				
Displacement cm3/rev	Standard threads			
0.9	I - I	B - B	J - J	Z - Z
1.2	I - I	B - B	J - J	Z - Z
1.7	I - I	B - B	J - J	Z - Z
2.2	I - I	B - B	J - J	Z - Z
2.6	I - I	B - B	J - J	Z - Z
3.2	I - I	B - B	J - J	Z - Z
3.8	I - I	B - B	J - J	Z - Z
4.3	I - I	B - B	J - J	Z - Z
4.9	I - I	B - B	J - J	Z - Z
5.9	I - I	B - B	J - J	Z - Z
6.5	I - I	B - B	J - J	Z - Z
7.8	I - I	B - B	J - J	Z - Z
9.8	I - I	B - B	J - J	Z - Z

Table showing standard flange and thread combinations available in stock

Body (threads/flanges)															
1/4 BSP	A	3/8 BSP	B	1/2 BSP	C	M14x1.5	D	M18x1,5	E	9/16 18 UNF-2B	F	3/4 16 UNF-2B	G		
M5x0.8 Ø12 Ø26	H	M6x1 Ø12 Ø30	I	M6x1 Ø12 45° Ø30	J	Closed Body	Z								

X	1	M	25	01	F	B	B	E

Series	X	series XV
Group	1	group 1
Category	M	reversible motor
Displacement	25	3.8
Flange	01	Ø25.4 STANDARD EUROPEAN reversible rotation
Shaft	F	CO001 - Tapered 1:8 - ø10 - M7x1 - key thk.2.4
Body IN	B	inlet - 3/8" GAS
Body OUT	B	outlet - 3/8" GAS
Cover	E	with drainage 1/4" BSP



XM105

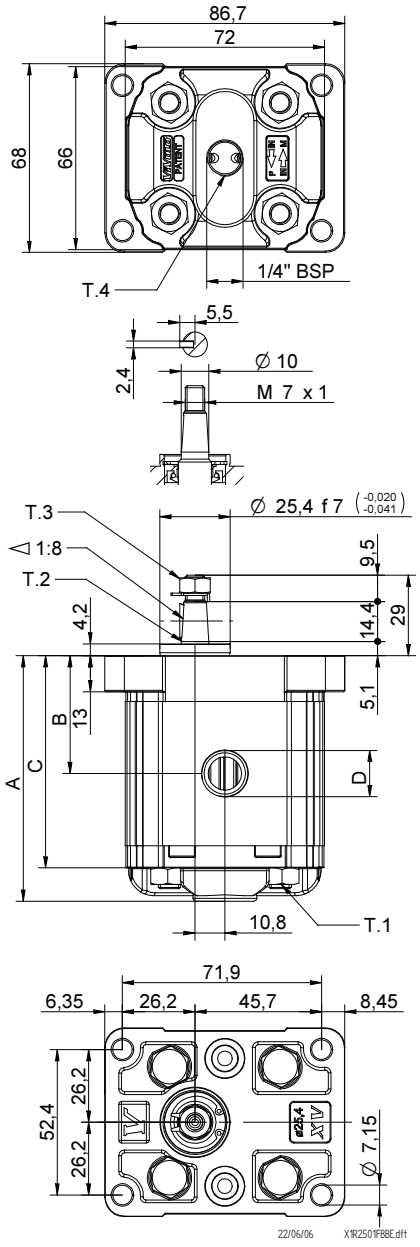
Technical data table

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

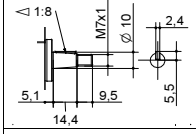
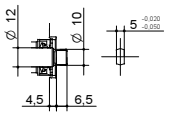
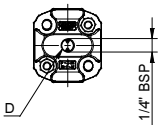
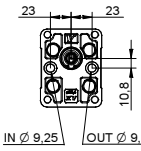
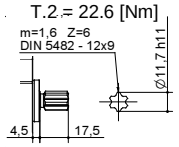
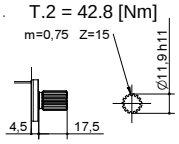
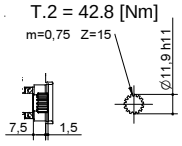
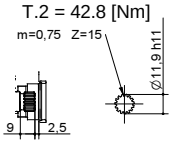
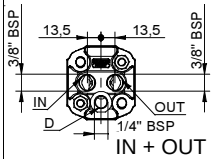
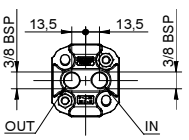


T.1 = 24.5÷29.4 [Nm] - screw tightening torque M8
T.3 = 11.5 [Nm] - torque wrench setting 11
T.2 = 43 [Nm] - admissible shaft torque (N.B. When choosing a shaft, always check the admissible torque).
T.4 = 0.3÷0,5 bar - max. drainage pressure

Table of variations

ø25.4 FLANGE

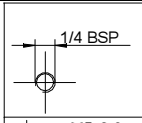
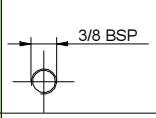
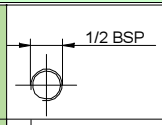
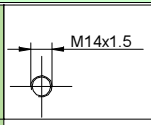
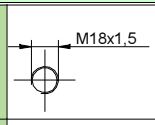
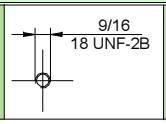
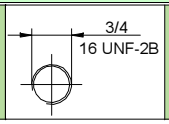
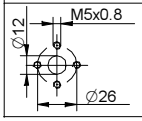
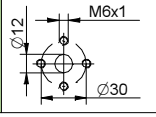
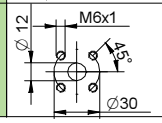
XV-1M

ø25.4 FLANGE		Shaft				Cover	
	01	CO001 - Tapered T.2 = 43 [Nm] 	F	CF002 - Milled shank T.2 = 13.8 [Nm] 	D	 External drainage	E
	04	SCF04 - Splined T.2 = 22.6 [Nm] 	J	SCF02 - Splined T.2 = 42.8 [Nm] 	L	 Internal drainage	F
		SCF01 - Splined T.2 = 42.8 [Nm] 	Q	SCF03 - Splined T.2 = 42.8 [Nm] 	R	 IN + OUT + external	K
						 IN + OUT + internal	L

Displacement	
TYPE	CODE
XV-1M/0.9	**16**
XV-1M/1.2	**17**
XV-1M/1.7	**18**
XV-1M/2.2	**20**
XV-1M/2.6	**21**
XV-1M/3.2	**23**
XV-1M/3.8	**25**
XV-1M/4.3	**27**
XV-1M/4.9	**29**
XV-1M/5.9	**31**
XV-1M/6.5	**32**
XV-1M/7.8	**34**
XV-1M/9.8	**36**

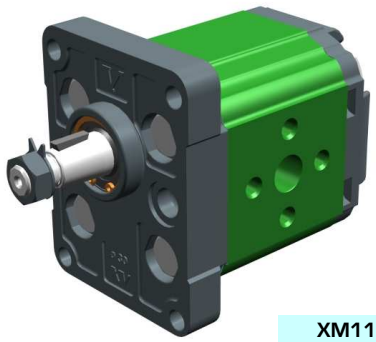
Standard bodies				
Displacement cm3/rev	Standard threads			
0.9	I - I	B - B	J - J	Z - Z
1.2	I - I	B - B	J - J	Z - Z
1.7	I - I	B - B	J - J	Z - Z
2.2	I - I	B - B	J - J	Z - Z
2.6	I - I	B - B	J - J	Z - Z
3.2	I - I	B - B	J - J	Z - Z
3.8	I - I	B - B	J - J	Z - Z
4.3	I - I	B - B	J - J	Z - Z
4.9	I - I	B - B	J - J	Z - Z
5.9	I - I	B - B	J - J	Z - Z
6.5	I - I	B - B	J - J	Z - Z
7.8	I - I	B - B	J - J	Z - Z
9.8	I - I	B - B	J - J	Z - Z

Table showing standard flange and thread combinations available in stock

Body (threads/flanges)															
 1/4 BSP	A	 3/8 BSP	B	 1/2 BSP	C	 M14x1.5	D	 M18x1,5	E	 9/16 18 UNF-2B	F	 3/4 16 UNF-2B	G
 M5x0.8	H	 M6x1	I	 M6x1	J	Closed Body	Z								

X	1	M	25	07	G	I	I	E

Series	X	series XV
Group	1	group 1
Category	M	reversible motor
Displacement	25	3.8
Flange	07	Ø30 STANDARD reversible rotation
Shaft	G	CO002 - Tapered 1:8 - ø14 - M10x1 - key thk.3
Body IN	I	inlet - Ø30 Ø12 M6
Body OUT	I	outlet - Ø30 Ø12 M6
Cover	E	with drainage 1/4" BSP



XM113

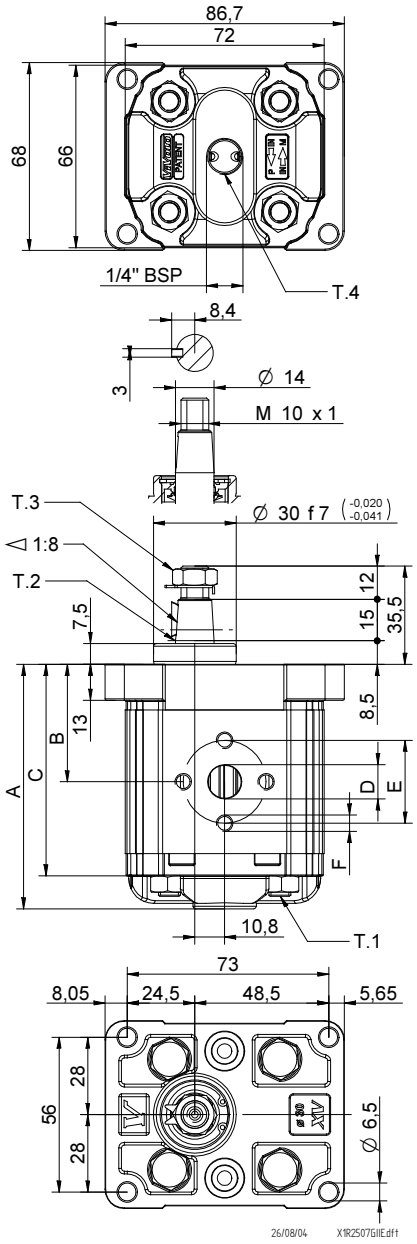
Technical data table

TYPE	Displacement	Max. Pressure		CODE	
	cm3/rev	P1 bar	P3 bar	External drainage	Internal drainage
XV-1M/0.9	0,91	240	280	X 1 M 16 07 G I I E	X 1 M 16 07 G I I F
XV-1M/1.2	1,17	250	290	X 1 M 17 07 G I I E	X 1 M 17 07 G I I F
XV-1M/1.7	1,56	250	290	X 1 M 18 07 G I I E	X 1 M 18 07 G I I F
XV-1M/2.2	2,08	250	290	X 1 M 20 07 G I I E	X 1 M 20 07 G I I F
XV-1M/2.6	2,60	250	300	X 1 M 21 07 G I I E	X 1 M 21 07 G I I F
XV-1M/3.2	3,12	250	300	X 1 M 23 07 G I I E	X 1 M 23 07 G I I F
XV-1M/3.8	3,64	250	300	X 1 M 25 07 G I I E	X 1 M 25 07 G I I F
XV-1M/4.3	4,16	250	300	X 1 M 27 07 G I I E	X 1 M 27 07 G I I F
XV-1M/4.9	4,94	250	300	X 1 M 29 07 G I I E	X 1 M 29 07 G I I F
XV-1M/5.9	5,85	250	300	X 1 M 31 07 G I I E	X 1 M 31 07 G I I F
XV-1M/6.5	6,50	250	300	X 1 M 32 07 G I I E	X 1 M 32 07 G I I F
XV-1M/7.8	7,54	220	260	X 1 M 34 07 G I I E	X 1 M 34 07 G I I F
XV-1M/9.8	9,88	190	230	X 1 M 36 07 G I I E	X 1 M 36 07 G I I 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	C	D	E	F	D	E	F
	kg	mm	mm	mm	IN			OUT		
XV-1M/0.9	0,950	78,1	37,3	66,1	ø12	30	M6x1	ø12	30	M6x1
XV-1M/1.2	0,970	79,0	37,8	67,0	ø12	30	M6x1	ø12	30	M6x1
XV-1M/1.7	1,010	80,5	38,5	68,5	ø12	30	M6x1	ø12	30	M6x1
XV-1M/2.2	1,030	82,5	39,5	70,5	ø12	30	M6x1	ø12	30	M6x1
XV-1M/2.6	1,060	84,5	40,5	72,5	ø12	30	M6x1	ø12	30	M6x1
XV-1M/3.2	1,090	86,5	41,5	74,5	ø12	30	M6x1	ø12	30	M6x1
XV-1M/3.8	1,120	88,5	42,5	76,5	ø12	30	M6x1	ø12	30	M6x1
XV-1M/4.3	1,170	90,5	43,5	78,5	ø12	30	M6x1	ø12	30	M6x1
XV-1M/4.9	1,200	93,5	45,0	81,5	ø12	30	M6x1	ø12	30	M6x1
XV-1M/5.9	1,260	97,0	46,8	85,0	ø12	30	M6x1	ø12	30	M6x1
XV-1M/6.5	1,300	98,5	48,0	86,5	ø12	30	M6x1	ø12	30	M6x1
XV-1M/7.8	1,360	103,5	50,0	91,5	ø12	30	M6x1	ø12	30	M6x1
XV-1M/9.8	1,500	112,5	54,5	100,5	ø12	30	M6x1	ø12	30	M6x1

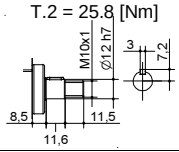
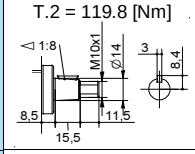
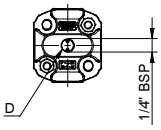
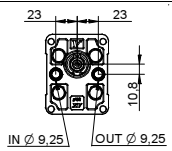
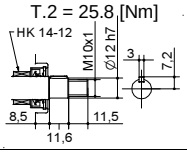
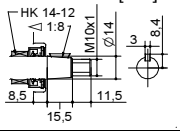
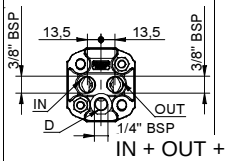
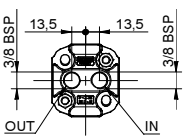


T.1 = 24.5÷29.4 [Nm] - screw tightening torque M8 T.3 = 13 [Nm] - torque wrench setting 17
T.2 = 119.8 [Nm] - admissible shaft torque (N.B. When choosing a shaft, always check the admissible torque).
T.4 = 0.3÷0,5 bar - max. drainage pressure

Table of variations

ø30 FLANGE

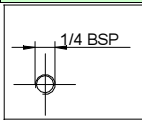
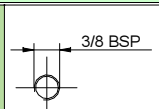
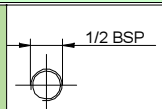
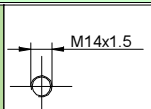
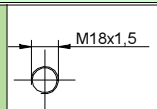
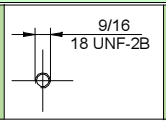
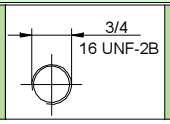
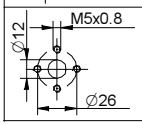
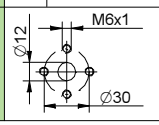
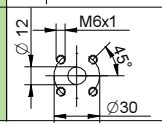
XV-1M

ø30 FLANGE		Shaft				Cover	
	07	CI001 - Parallel T.2 = 25.8 [Nm] 	A	CO002 - Tapered T.2 = 119.8 [Nm] 	G	 External drainage	E
	10	CI001+HK - Parallel T.2 = 25.8 [Nm] 	P	CO002+HK - Tapered T.2 = 119.8 [Nm] 	O	 Internal drainage	F
						 IN + OUT + external	K
						 IN + OUT + internal	L

Displacement	
TYPE	**CODE**
XV-1M/0.9	**16**
XV-1M/1.2	**17**
XV-1M/1.7	**18**
XV-1M/2.2	**20**
XV-1M/2.6	**21**
XV-1M/3.2	**23**
XV-1M/3.8	**25**
XV-1M/4.3	**27**
XV-1M/4.9	**29**
XV-1M/5.9	**31**
XV-1M/6.5	**32**
XV-1M/7.8	**34**
XV-1M/9.8	**36**

Standard bodies				
Displacement cm3/rev	**Standard threads**			
0.9	I - I	B - B	J - J	Z - Z
1.2	I - I	B - B	J - J	Z - Z
1.7	I - I	B - B	J - J	Z - Z
2.2	I - I	B - B	J - J	Z - Z
2.6	I - I	B - B	J - J	Z - Z
3.2	I - I	B - B	J - J	Z - Z
3.8	I - I	B - B	J - J	Z - Z
4.3	I - I	B - B	J - J	Z - Z
4.9	I - I	B - B	J - J	Z - Z
5.9	I - I	B - B	J - J	Z - Z
6.5	I - I	B - B	J - J	Z - Z
7.8	I - I	B - B	J - J	Z - Z
9.8	I - I	B - B	J - J	Z - Z

Table showing standard flange and thread combinations available in stock

Body (threads/flanges)															
	A		B		C		D		E		F		G
	H		I		J	Closed Body	Z								

X	1	M	25	25	D	B	B	E

Series	X	series XV
Group	1	group 1
Category	M	reversible motor
Displacement	25	3.8
Flange	25	Ø32 BH reversible rotation
Shaft	D	CF002 - Milled shank ø10 - thk.5
Body IN	B	inlet - 3/8" GAS
Body OUT	B	outlet - 3/8" GAS
Cover	E	with drainage 1/4" BSP

XM119

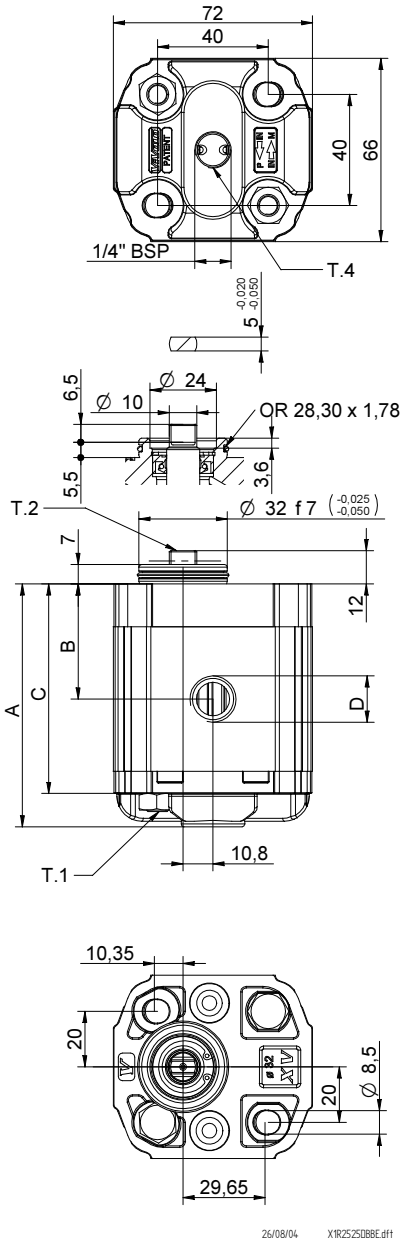
Technical data table

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



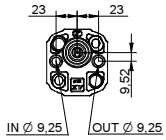
T.1 = 24.5÷29.4 [Nm] - screw tightening torque M8
T.2 = 13.8 [Nm] - admissible shaft torque (N.B. When choosing a shaft, always check the admissible torque).
T.4 = 0.3÷0,5 bar - max. drainage pressure

Table of variations

ø32 "BH" Body-Shaped FLANGE

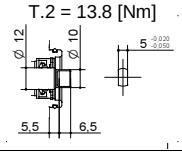
ø32 "BH" Body-Shaped FLANGE


25



28

Shaft



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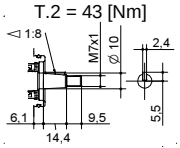

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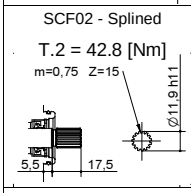

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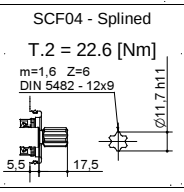

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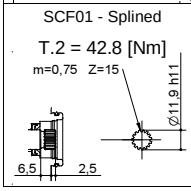

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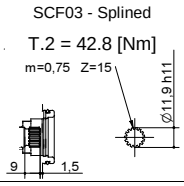

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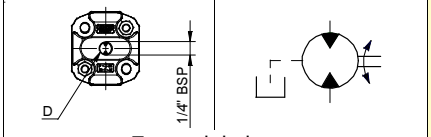
Cover



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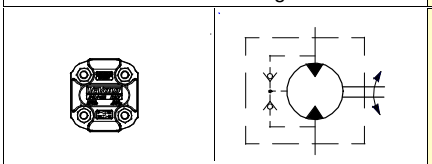

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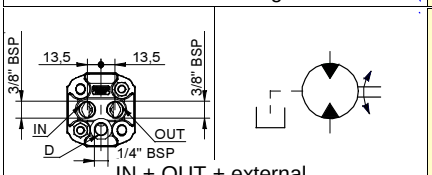

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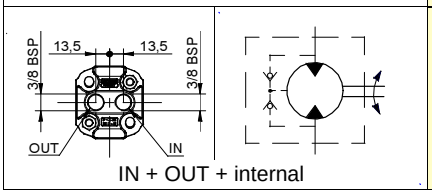


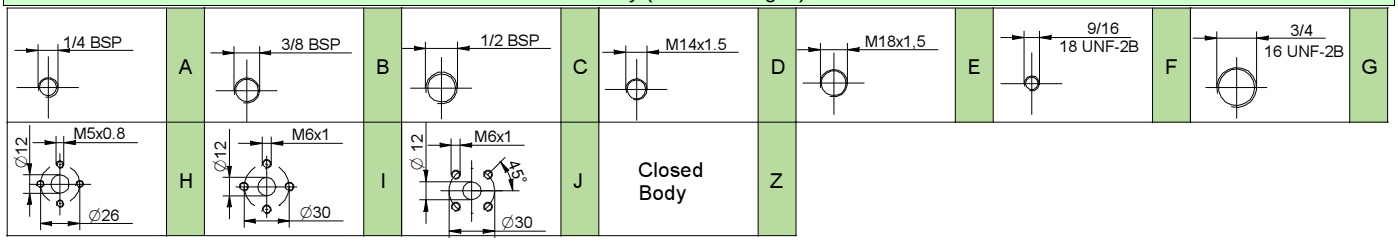
L

Displacement	
TYPE	CODE
XV-1M/0.9	**16**
XV-1M/1.2	**17**
XV-1M/1.7	**18**
XV-1M/2.2	**20**
XV-1M/2.6	**21**
XV-1M/3.2	**23**
XV-1M/3.8	**25**
XV-1M/4.3	**27**
XV-1M/4.9	**29**
XV-1M/5.9	**31**
XV-1M/6.5	**32**
XV-1M/7.8	**34**
XV-1M/9.8	**36**

Standard bodies				
Displacement cm3/rev	Standard threads			
0.9	I - I	B - B	J - J	Z - Z
1.2	I - I	B - B	J - J	Z - Z
1.7	I - I	B - B	J - J	Z - Z
2.2	I - I	B - B	J - J	Z - Z
2.6	I - I	B - B	J - J	Z - Z
3.2	I - I	B - B	J - J	Z - Z
3.8	I - I	B - B	J - J	Z - Z
4.3	I - I	B - B	J - J	Z - Z
4.9	I - I	B - B	J - J	Z - Z
5.9	I - I	B - B	J - J	Z - Z
6.5	I - I	B - B	J - J	Z - Z
7.8	I - I	B - B	J - J	Z - Z
9.8	I - I	B - B	J - J	Z - Z

Table showing standard flange and thread combinations available in stock

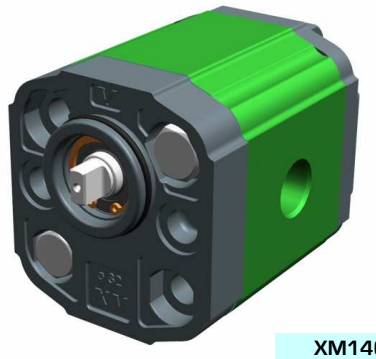
Body (threads/flanges)



HY TYPE MOTOR
ø32 BODY-SHAPED FLANGE - MILLED SHANK

X	1	M	25	31	D	B	B	E

Series	X	series XV
Group	1	group 1
Category	M	reversible motor
Displacement	25	3.8
Flange	31	Ø32 HY reversible rotation with inlet
Shaft	D	CF002 - Milled shank ø10 - thk.5
Body IN	B	inlet - 3/8" GAS
Body OUT	B	outlet - 3/8" GAS
Cover	E	with drainage 1/4" BSP



XM140

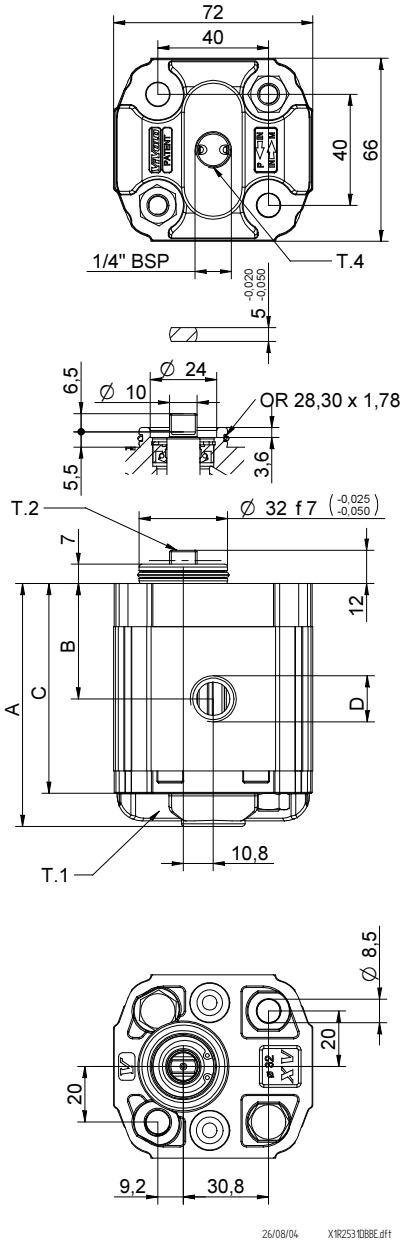
Technical data table

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

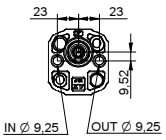
TYPE	Weight	A	B	C	D	D
	kg	mm	mm	mm	IN	OUT
XV-1M/0.9	0,950	77,1	36,3	65,1	3/8" BSPP	3/8" BSPP
XV-1M/1.2	0,970	78,0	36,8	66,0	3/8" BSPP	3/8" BSPP
XV-1M/1.7	1,010	79,5	37,5	67,5	3/8" BSPP	3/8" BSPP
XV-1M/2.2	1,030	81,5	38,5	69,5	3/8" BSPP	3/8" BSPP
XV-1M/2.6	1,060	83,5	39,5	71,5	3/8" BSPP	3/8" BSPP
XV-1M/3.2	1,090	85,5	40,5	73,5	3/8" BSPP	3/8" BSPP
XV-1M/3.8	1,120	87,5	41,5	75,5	3/8" BSPP	3/8" BSPP
XV-1M/4.3	1,170	89,5	42,5	77,5	3/8" BSPP	3/8" BSPP
XV-1M/4.9	1,200	92,5	44,0	80,5	3/8" BSPP	3/8" BSPP
XV-1M/5.9	1,260	96,0	45,8	84,0	3/8" BSPP	3/8" BSPP
XV-1M/6.5	1,300	97,5	47,0	85,5	3/8" BSPP	3/8" BSPP
XV-1M/7.8	1,360	102,5	49,0	90,5	3/8" BSPP	3/8" BSPP
XV-1M/9.8	1,500	111,5	53,5	99,5	3/8" BSPP	3/8" BSPP

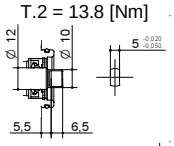
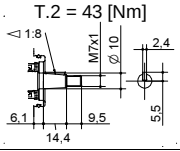
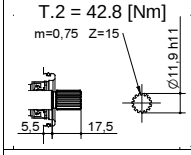
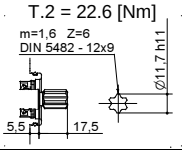
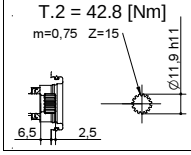
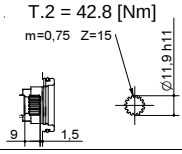


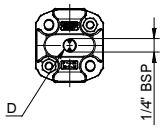
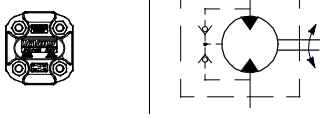
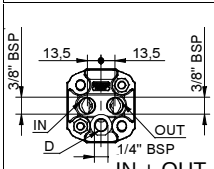
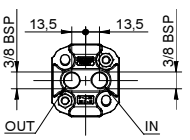
T.1 = 24.5÷29.4 [Nm] - screw tightening torque M8
T.2 = 13.8 [Nm] - admissible shaft torque (N.B. When choosing a shaft, always check the admissible torque).
T.4 = 0.3÷0,5 bar - max. drainage pressure

Table of variations

ø32 "HY" Body-Shaped FLANGE

ø32 "HY" Body-Shaped FLANGE	
	31
	34

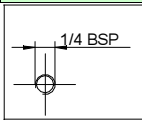
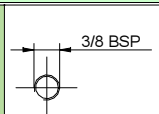
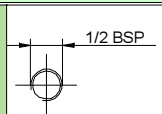
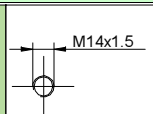
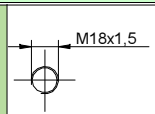
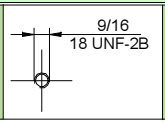
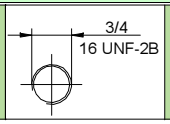
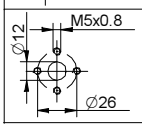
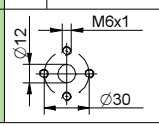
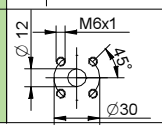
Shaft			
CF002 - Milled shank T.2 = 13.8 [Nm] 	D	CO001 - Tapered T.2 = 43 [Nm] 	F
SCF02 - Splined T.2 = 42.8 [Nm] m=0,75 Z=15 	L	SCF04 - Splined T.2 = 22.6 [Nm] m=1,6 Z=6 DIN 5482 - 12x9 	J
SCF01 - Splined T.2 = 42.8 [Nm] m=0,75 Z=15 	Q	SCF03 - Splined T.2 = 42.8 [Nm] m=0,75 Z=15 	R

Cover	
 External drainage	E
 Internal drainage	F
 IN + OUT + external	K
 IN + OUT + internal	L

Displacement	
TYPE	CODE
XV-1M/0.9	**16**
XV-1M/1.2	**17**
XV-1M/1.7	**18**
XV-1M/2.2	**20**
XV-1M/2.6	**21**
XV-1M/3.2	**23**
XV-1M/3.8	**25**
XV-1M/4.3	**27**
XV-1M/4.9	**29**
XV-1M/5.9	**31**
XV-1M/6.5	**32**
XV-1M/7.8	**34**
XV-1M/9.8	**36**

Standard bodies				
Displacement cm3/rev	Standard threads			
0.9	I - I	B - B	J - J	Z - Z
1.2	I - I	B - B	J - J	Z - Z
1.7	I - I	B - B	J - J	Z - Z
2.2	I - I	B - B	J - J	Z - Z
2.6	I - I	B - B	J - J	Z - Z
3.2	I - I	B - B	J - J	Z - Z
3.8	I - I	B - B	J - J	Z - Z
4.3	I - I	B - B	J - J	Z - Z
4.9	I - I	B - B	J - J	Z - Z
5.9	I - I	B - B	J - J	Z - Z
6.5	I - I	B - B	J - J	Z - Z
7.8	I - I	B - B	J - J	Z - Z
9.8	I - I	B - B	J - J	Z - Z

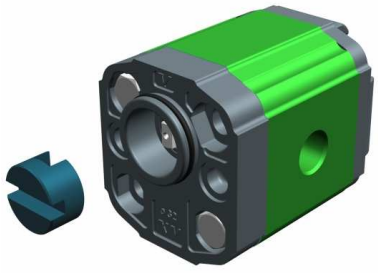
Table showing standard flange and thread combinations available in stock

Body (threads/flanges)															
 1/4 BSP	A	 3/8 BSP	B	 1/2 BSP	C	 M14x1.5	D	 M18x1,5	E	 9/16 18 UNF-2B	F	 3/4 16 UNF-2B	G
 M5x0.8 Ø12 Ø26	H	 M6x1 Ø12 Ø30	I	 M6x1 Ø12 45° Ø30	J	Closed Body	Z								

STANDARD GERMAN "BH" TYPE MOTOR
ø32 BODY-SHAPED FLANGE - MILLED SHANK

X	1	M	25	19	C	B	B	E

Series	X	series XV
Group	1	group 1
Category	M	reversible motor
Displacement	25	3.8
Flange	19	Ø32 BH reversible rotation
Shaft	C	CF001 - Milled shank ø10 - thk.5 ("BH" Standard German)
Body IN	B	inlet - 3/8" GAS
Body OUT	B	outlet - 3/8" GAS
Cover	E	with drainage 1/4" BSP

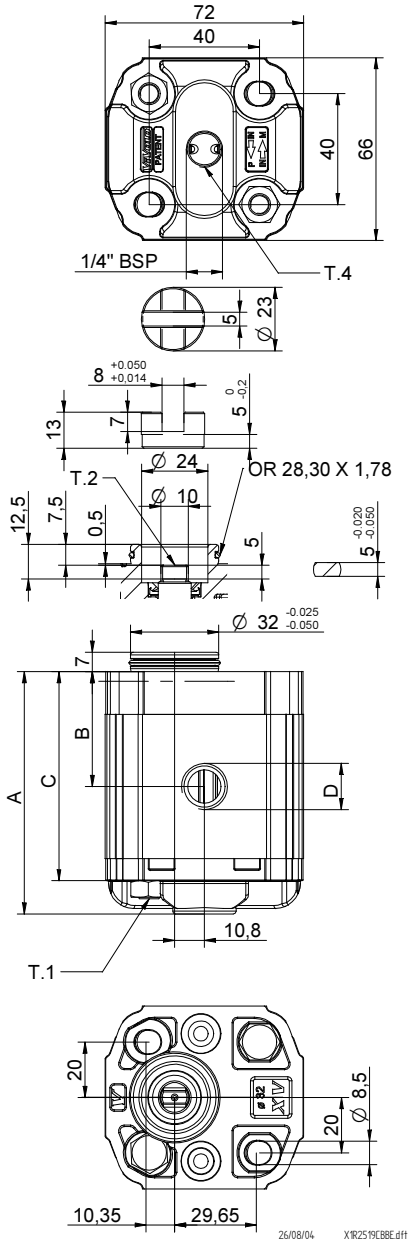


XM161

Technical data table

TYPE	Displacement	Max. Pressure		CODE	
	cm3/rev	P1 bar	P3 bar	External drainage	Internal drainage
XV-1M/0.9	0,91	240	280	X 1 M 16 19 C B B E	X 1 M 16 19 C B B F
XV-1M/1.2	1,17	250	290	X 1 M 17 19 C B B E	X 1 M 17 19 C B B F
XV-1M/1.7	1,56	250	290	X 1 M 18 19 C B B E	X 1 M 18 19 C B B F
XV-1M/2.2	2,08	250	290	X 1 M 20 19 C B B E	X 1 M 20 19 C B B F
XV-1M/2.6	2,60	250	300	X 1 M 21 19 C B B E	X 1 M 21 19 C B B F
XV-1M/3.2	3,12	250	300	X 1 M 23 19 C B B E	X 1 M 23 19 C B B F
XV-1M/3.8	3,64	250	300	X 1 M 25 19 C B B E	X 1 M 25 19 C B B F
XV-1M/4.3	4,16	250	300	X 1 M 27 19 C B B E	X 1 M 27 19 C B B F
XV-1M/4.9	4,94	250	300	X 1 M 29 19 C B B E	X 1 M 29 19 C B B F
XV-1M/5.9	5,85	250	300	X 1 M 31 19 C B B E	X 1 M 31 19 C B B F
XV-1M/6.5	6,50	250	300	X 1 M 32 19 C B B E	X 1 M 32 19 C B B F
XV-1M/7.8	7,54	220	260	X 1 M 34 19 C B B E	X 1 M 34 19 C B B F
XV-1M/9.8	9,88	190	230	X 1 M 36 19 C B B E	X 1 M 36 19 C B B 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

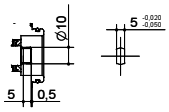
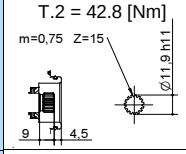
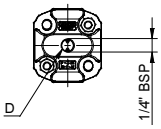
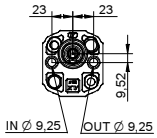
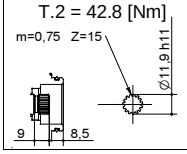
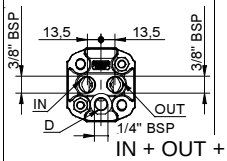
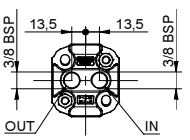
TYPE	Weight	A	B	C	D	D
	kg	mm	mm	mm	IN	OUT
XV-1M/0.9	0,950	77,1	36,3	65,1	3/8" BSPP	3/8" BSPP
XV-1M/1.2	0,970	78,0	36,8	66,0	3/8" BSPP	3/8" BSPP
XV-1M/1.7	1,010	79,5	37,5	67,5	3/8" BSPP	3/8" BSPP
XV-1M/2.2	1,030	81,5	38,5	69,5	3/8" BSPP	3/8" BSPP
XV-1M/2.6	1,060	83,5	39,5	71,5	3/8" BSPP	3/8" BSPP
XV-1M/3.2	1,090	85,5	40,5	73,5	3/8" BSPP	3/8" BSPP
XV-1M/3.8	1,120	87,5	41,5	75,5	3/8" BSPP	3/8" BSPP
XV-1M/4.3	1,170	89,5	42,5	77,5	3/8" BSPP	3/8" BSPP
XV-1M/4.9	1,200	92,5	44,0	80,5	3/8" BSPP	3/8" BSPP
XV-1M/5.9	1,260	96,0	45,8	84,0	3/8" BSPP	3/8" BSPP
XV-1M/6.5	1,300	97,5	47,0	85,5	3/8" BSPP	3/8" BSPP
XV-1M/7.8	1,360	102,5	49,0	90,5	3/8" BSPP	3/8" BSPP
XV-1M/9.8	1,500	111,5	53,5	99,5	3/8" BSPP	3/8" BSPP

T.1 = 24.5÷29.4 [Nm] - screw tightening torque M8
T.2 = 13.8 [Nm] - admissible shaft torque (N.B. When choosing a shaft, always check the admissible torque).
T.4 = 0.3÷0,5 bar - max. drainage pressure

Table of variations

Standard German ø32 "BH" FLANGE

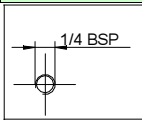
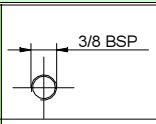
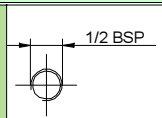
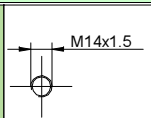
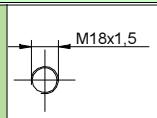
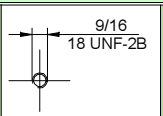
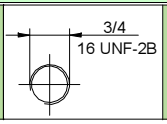
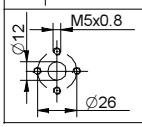
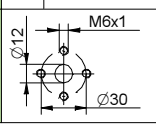
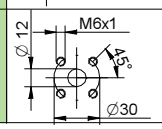
XV-1M

Standard German ø32 "BH" FLANGE		Shaft				Cover	
	19	CF001 - Milled shank T.2 = 13.8 [Nm] 	C	SCF01 - Splined T.2 = 42.8 [Nm] 	Q	 External drainage	E
	22	SCF03 - Splined T.2 = 42.8 [Nm] 	R			 Internal drainage	F
						 IN + OUT + external	K
						 IN + OUT + internal	L

Displacement	
TYPE	CODE
XV-1M/0.9	**16**
XV-1M/1.2	**17**
XV-1M/1.7	**18**
XV-1M/2.2	**20**
XV-1M/2.6	**21**
XV-1M/3.2	**23**
XV-1M/3.8	**25**
XV-1M/4.3	**27**
XV-1M/4.9	**29**
XV-1M/5.9	**31**
XV-1M/6.5	**32**
XV-1M/7.8	**34**
XV-1M/9.8	**36**

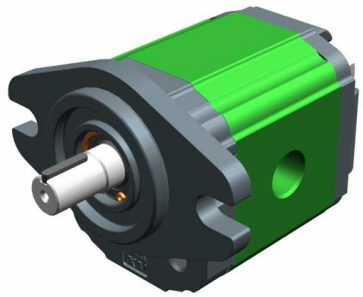
Standard bodies				
Displacement cm3/rev	Standard threads			
0.9	I - I	B - B	J - J	Z - Z
1.2	I - I	B - B	J - J	Z - Z
1.7	I - I	B - B	J - J	Z - Z
2.2	I - I	B - B	J - J	Z - Z
2.6	I - I	B - B	J - J	Z - Z
3.2	I - I	B - B	J - J	Z - Z
3.8	I - I	B - B	J - J	Z - Z
4.3	I - I	B - B	J - J	Z - Z
4.9	I - I	B - B	J - J	Z - Z
5.9	I - I	B - B	J - J	Z - Z
6.5	I - I	B - B	J - J	Z - Z
7.8	I - I	B - B	J - J	Z - Z
9.8	I - I	B - B	J - J	Z - Z

Table showing standard flange and thread combinations available in stock

Body (threads/flanges)															
	A		B		C		D		E		F		G
	H		I		J	Closed Body	Z								

X	1	M	25	61	B	B	B	E

Series	X	series XV
Group	1	group 1
Category	M	reversible motor
Displacement	25	3.8
Flange	61	Ø50.8 SAE AA reversible rotation
Shaft	B	CI002 - Parallel ø12.7 - key thk. 3.2 (SAE AA)
Body IN	B	inlet - 3/8" GAS
Body OUT	B	outlet - 3/8" GAS
Cover	E	with drainage 1/4" BSP



XM168

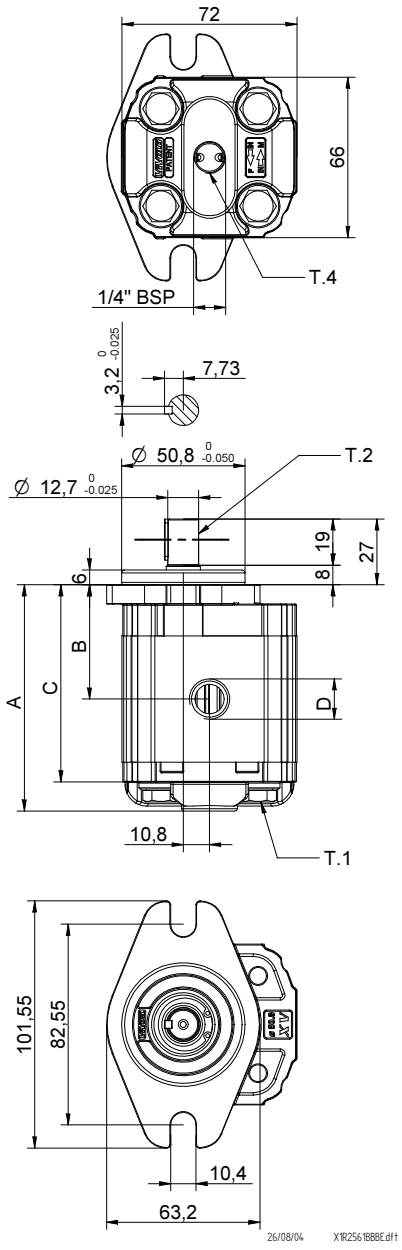
Technical data table

TYPE	Displacement	Max. Pressure		CODE	
	cm3/rev	P1 bar	P3 bar	External drainage	Internal drainage
XV-1M/0.9	0,91	240	280	X 1 M 16 61 B B B E	X 1 M 16 61 B B B F
XV-1M/1.2	1,17	250	290	X 1 M 17 61 B B B E	X 1 M 17 61 B B B F
XV-1M/1.7	1,56	250	290	X 1 M 18 61 B B B E	X 1 M 18 61 B B B F
XV-1M/2.2	2,08	250	290	X 1 M 20 61 B B B E	X 1 M 20 61 B B B F
XV-1M/2.6	2,60	250	300	X 1 M 21 61 B B B E	X 1 M 21 61 B B B F
XV-1M/3.2	3,12	250	300	X 1 M 23 61 B B B E	X 1 M 23 61 B B B F
XV-1M/3.8	3,64	250	300	X 1 M 25 61 B B B E	X 1 M 25 61 B B B F
XV-1M/4.3	4,16	250	300	X 1 M 27 61 B B B E	X 1 M 27 61 B B B F
XV-1M/4.9	4,94	250	300	X 1 M 29 61 B B B E	X 1 M 29 61 B B B F
XV-1M/5.9	5,85	250	300	X 1 M 31 61 B B B E	X 1 M 31 61 B B B F
XV-1M/6.5	6,50	250	300	X 1 M 32 61 B B B E	X 1 M 32 61 B B B F
XV-1M/7.8	7,54	220	260	X 1 M 34 61 B B B E	X 1 M 34 61 B B B F
XV-1M/9.8	9,88	190	230	X 1 M 36 61 B B B E	X 1 M 36 61 B B B 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	C	D	D
	kg	mm	mm	mm	IN	OUT
XV-1M/0.9	1,000	82,6	41,8	70,6	3/8" BSPP	3/8" BSPP
XV-1M/1.2	1,020	83,5	42,3	71,5	3/8" BSPP	3/8" BSPP
XV-1M/1.7	1,060	85,0	43,0	73,0	3/8" BSPP	3/8" BSPP
XV-1M/2.2	1,080	87,0	44,0	75,0	3/8" BSPP	3/8" BSPP
XV-1M/2.6	1,110	89,0	45,0	77,0	3/8" BSPP	3/8" BSPP
XV-1M/3.2	1,140	91,0	46,0	79,0	3/8" BSPP	3/8" BSPP
XV-1M/3.8	1,170	93,0	47,0	81,0	3/8" BSPP	3/8" BSPP
XV-1M/4.3	1,220	95,0	48,0	83,0	3/8" BSPP	3/8" BSPP
XV-1M/4.9	1,250	98,0	49,5	86,0	3/8" BSPP	3/8" BSPP
XV-1M/5.9	1,310	101,5	51,3	89,5	3/8" BSPP	3/8" BSPP
XV-1M/6.5	1,350	105,0	52,5	93,0	3/8" BSPP	3/8" BSPP
XV-1M/7.8	1,410	108,0	54,5	96,0	3/8" BSPP	3/8" BSPP
XV-1M/9.8	1,550	117,0	59,0	105,0	3/8" BSPP	3/8" BSPP



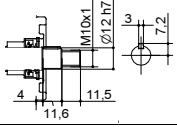
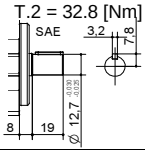
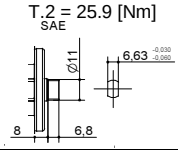
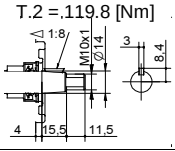
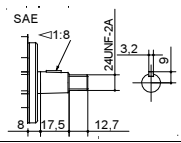
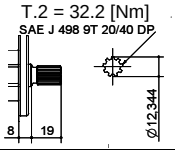
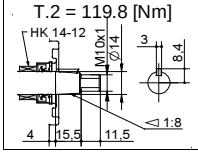
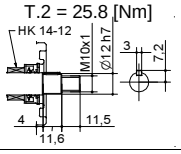
T.1 = 24.5÷29.4 [Nm] - screw tightening torque M8
T.2 = 32.8 [Nm] - admissible shaft torque (N.B. When choosing a shaft, always check the admissible torque).
T.4 = 0.3÷0,5 bar - max. drainage pressure

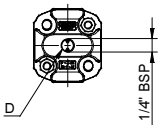
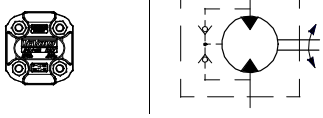
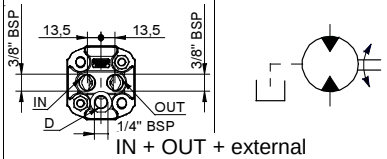
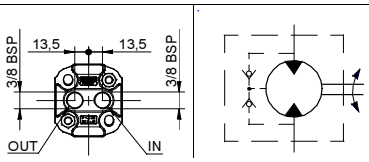
Table of variations

ø50.8 FLANGE "SAE AA"

XV-1M

ø50.8 FLANGE "SAE AA"	
	61

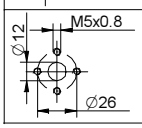
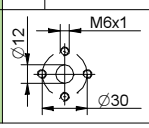
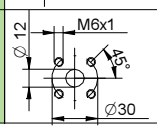
Shaft			
CI001 - Parallel T.2 = 25.8 [Nm] 	A	CI002 - Parallel T.2 = 32.8 [Nm] 	B
CF003 - Milled shank T.2 = 25.9 [Nm] 	E	CO002 - Tapered T.2 =.119.8 [Nm] 	G
	I	SCF05 - Splined T.2 = 32.2 [Nm] 	K
CO002+HK - Tapered T.2 = 119.8 [Nm] 	O	CI001+HK - Parallel T.2 = 25.8 [Nm] 	P

Cover	
 External drainage	E
 Internal drainage	F
 IN + OUT + external	K
 IN + OUT + internal	L

Displacement	
TYPE	CODE
XV-1M/0.9	**16**
XV-1M/1.2	**17**
XV-1M/1.7	**18**
XV-1M/2.2	**20**
XV-1M/2.6	**21**
XV-1M/3.2	**23**
XV-1M/3.8	**25**
XV-1M/4.3	**27**
XV-1M/4.9	**29**
XV-1M/5.9	**31**
XV-1M/6.5	**32**
XV-1M/7.8	**34**
XV-1M/9.8	**36**

Standard bodies				
Displacement cm3/rev	Standard threads			
0.9	I - I	B - B	J - J	Z - Z
1.2	I - I	B - B	J - J	Z - Z
1.7	I - I	B - B	J - J	Z - Z
2.2	I - I	B - B	J - J	Z - Z
2.6	I - I	B - B	J - J	Z - Z
3.2	I - I	B - B	J - J	Z - Z
3.8	I - I	B - B	J - J	Z - Z
4.3	I - I	B - B	J - J	Z - Z
4.9	I - I	B - B	J - J	Z - Z
5.9	I - I	B - B	J - J	Z - Z
6.5	I - I	B - B	J - J	Z - Z
7.8	I - I	B - B	J - J	Z - Z
9.8	I - I	B - B	J - J	Z - Z

Table showing standard flange and thread combinations available in stock

Body (threads/flanges)														
1/4 BSP	A	3/8 BSP	B	1/2 BSP	C	M14x1.5	D	M18x1,5	E	9/16 18 UNF-2B	F	3/4 16 UNF-2B	G	
	H		I		J	Closed Body	Z							