



MA HYDRAULICS Ltd  
- INCORPORATING HYSTAR HYDRAULICS -

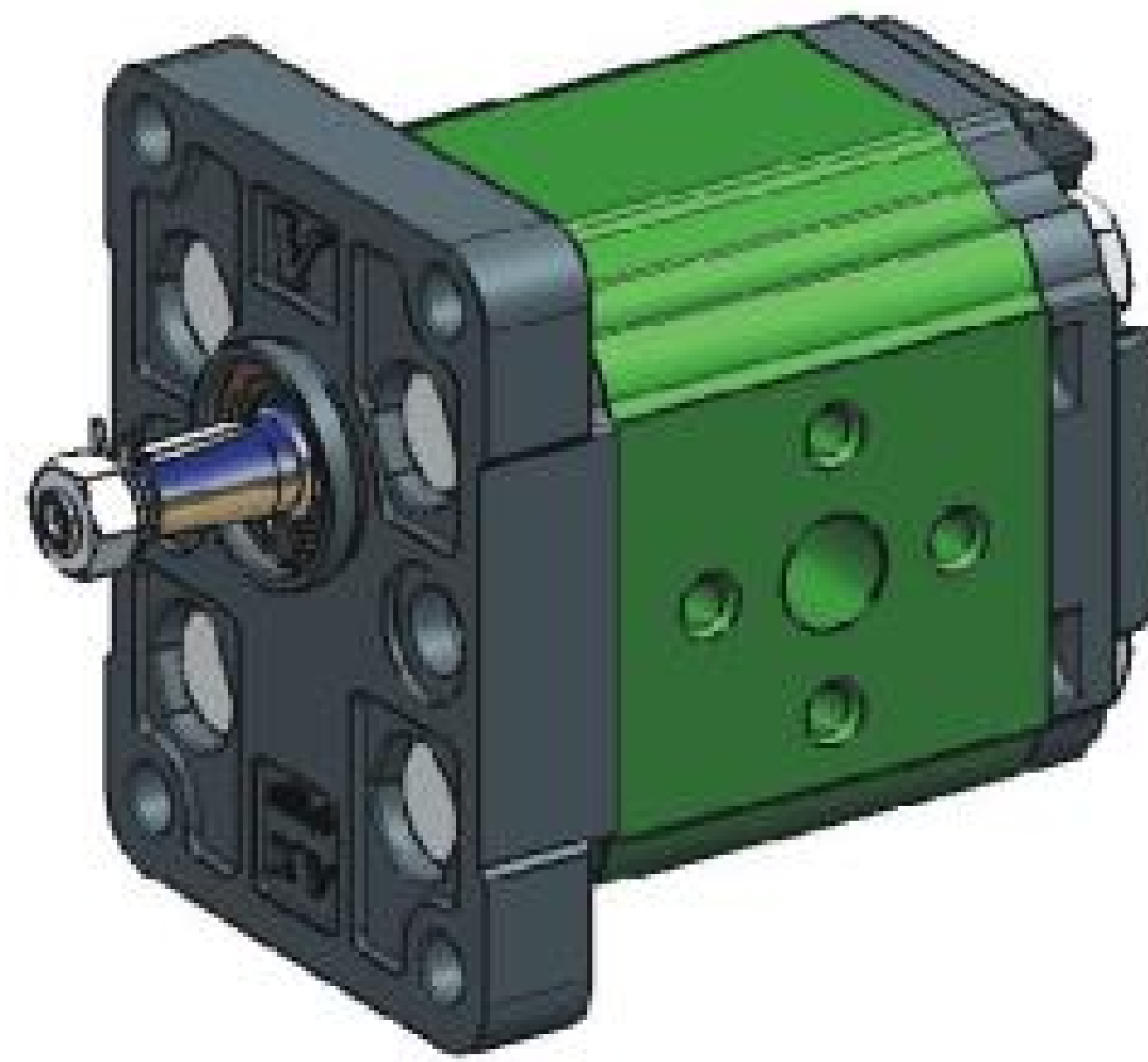
# GEAR PUMP CATALOGUE



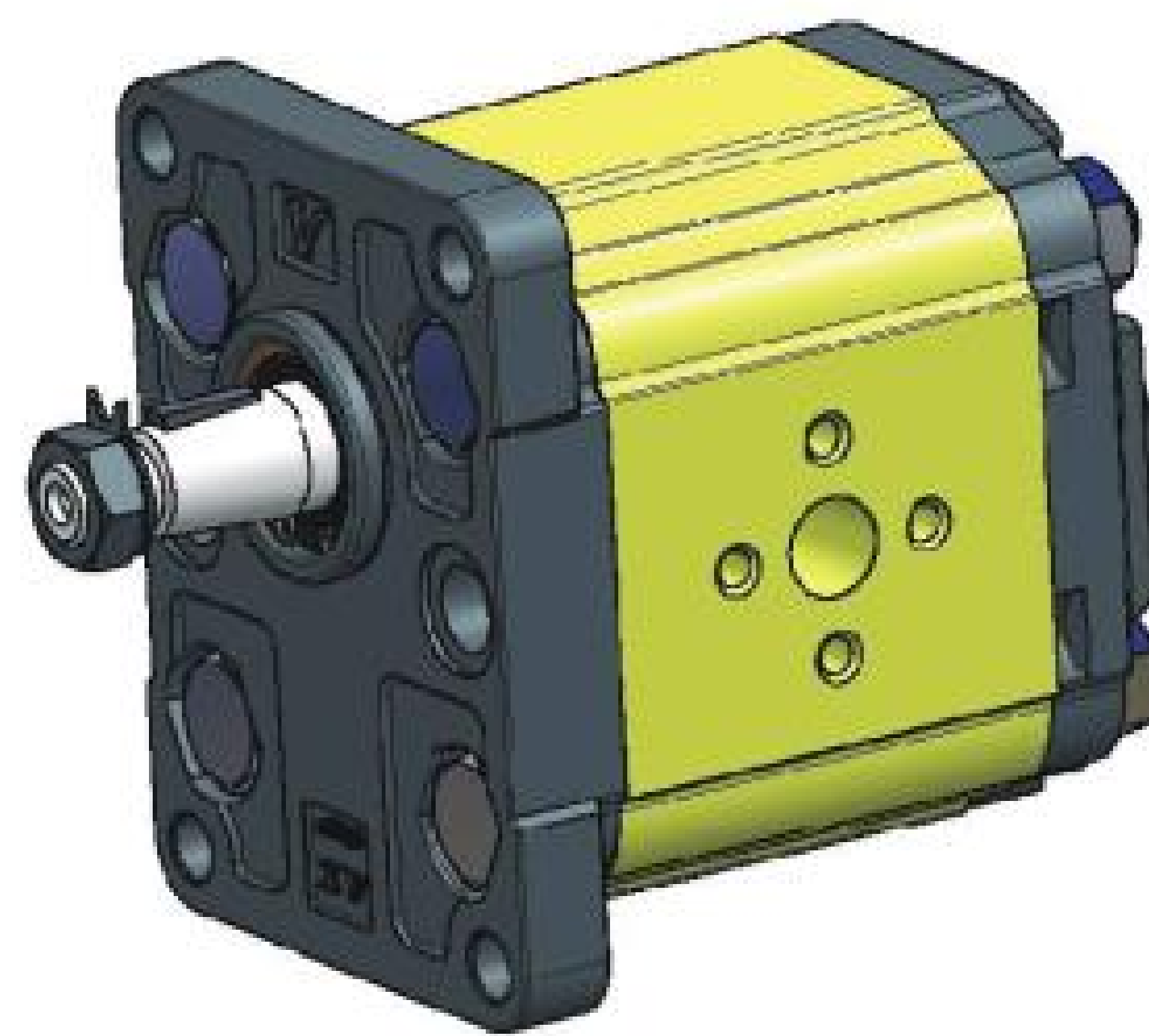
T. 01724 279508  
F. 01724 279509



XV-0P



XV-1P



XV-2P



XV-3P

**BFPDA** The British Fluid Power Distributors Association  
(Affiliated to IFPE)

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PART FINDERS FOR HYDRAULIC SYSTEMS



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THIS ABRIDGED CATALOGUE CONTAINS DETAILS ON WHAT IS CONSIDERED AS OUR 'STANDARD' STOCK RANGE.

THE FULL RANGE OF GEAR PUMPS INCLUDING MULTIPLE PUMPS, GEAR MOTORS & GEAR TYPE FLOW DIVIDERS CAN BE VIEWED OR DOWN LOADED FROM OUR WEBSITE

[www.mahydraulics.co.uk](http://www.mahydraulics.co.uk)



INTRODUCTION

XV-0P

XV-1P

XV-2P

XV-3P

**XV-0P**

References: XP-001	References: XP-012	References: XP-017
<b>Standard Ø22 FLANGE</b>	<b>Ø22 BH FLANGE</b>	<b>Ø22 HY FLANGE</b>

**XV-1P**

References: XP-101	References: XP-113	References: XP-119
<b>Ø25.4 FLANGE</b>	<b>Ø30 FLANGE</b>	<b>Ø32 BH FLANGE</b>
References: XP-140	References: XP-161	References: XP-168
<b>Ø32 HY FLANGE</b>	<b>Standard German Ø32 BH</b>	<b>Ø50.8 SAE AA FLANGE</b>

**XV-2P**

References: XP-201	References: XP-210	References: XP-213
<b>Ø36.5 FLANGE</b>	<b>Ø50 BH FLANGE</b>	<b>Ø50 HY FLANGE</b>
References: XP-216	References: XP-217	References: XP-219
<b>Standard German Ø52 BH FLANGE</b>	<b>Standard German Ø80 FLANGE</b>	<b>Ø82.5 SAE A FLANGE</b>

**XV-3P**

References: XP-301	References: XP-331
<b>BASE Ø50,8 - Standard</b>	<b>BASE Ø101,6 SAE B</b>

Vivoil Oleodinamica Vivolo s.r.l. presents a new series of gear pumps called XV-P.

The quality of the product has been improved on by exploiting new and innovative solutions, both technical and constructive, for which the company has been **awarded 3 patents.**

The pumps are divided into four groups:





INTRODUCTION

**XV-0P****XV-1P****XV-2P****XV-3P****The main features of the XV-0P are the following:**Displacements from 0.16 cm<sup>3</sup> / revolution to 2.28 cm<sup>3</sup>/revolution.Maximum pressures up to **280 bar**.Versions w/ flanges: Ø22 – Standard;  
Ø22 BH – Sagomata;  
Ø22 HY – Sagomata.Rotation speeds up to **9000 rpm**.

Configurations with inlet and outlet in the body, flange and cover.

Available shafts: Cylindrical with Woodruff key;  
Milled shank;  
Tapered 1:8 Woodruff key.**The main features of the XV-1P are the following:**Displacements from 0.91 cm<sup>3</sup> / revolution to 9.88 cm<sup>3</sup> / revolution.Maximum pressures up to **300 bar**.Versions w/ flanges: Ø25.4 – Standard European;  
Ø30 – Standard;  
Ø32 BH – Body-Shaped;  
Ø32 HY – Body-Shaped;  
Ø32 BH – Standard German – Body-Shaped;  
Ø50.8 – SAE AARotation speeds up to **6000 rpm**

Configurations with inlet and outlet in the body, flange and cover.

Available shafts: Tapered 1:8 Woodruff key;  
Parallel with key;  
Milled shank;  
Splined.**The main features of the XV-2P are the following:**Displacements from 4.2 cm<sup>3</sup> / revolution a 39.6 cm<sup>3</sup> / revolution.Maximum pressures up to **300 bar**.Versions w/ flanges: Ø36,5 – Standard Europea;  
Ø50 BH – Body-Shaped;  
Ø50 HY – Body-Shaped;  
Ø52 BH - Standard German – Body-Shaped;  
Ø80 – Standard German;  
Ø82,5 – SAE A.Rotation speeds up to **3500 rpm**

Configurations with inlet and outlet in the body, flange and cover.

Available shafts: Tapered 1:8 Woodruff key;  
Parallel with key;  
Milled shank;  
Splined.**The main features of the XV-3P are the following:**Displacements from 14.89 cm<sup>3</sup> / revolution to 86.87cm<sup>3</sup>/ revolution.Maximum pressures up to **320 bar**.

Versions w/ flanges: Ø50,8 – Standard European;

Rotation speeds up to **3000 rpm**.Available shafts: Tapered 1:8 Woodruff key;  
Parallel with key;  
Splined.



INTRODUCTION

XV-0P

XV-1P

XV-2P

XV-3P

Summary: Displacements - Pressures - Speeds

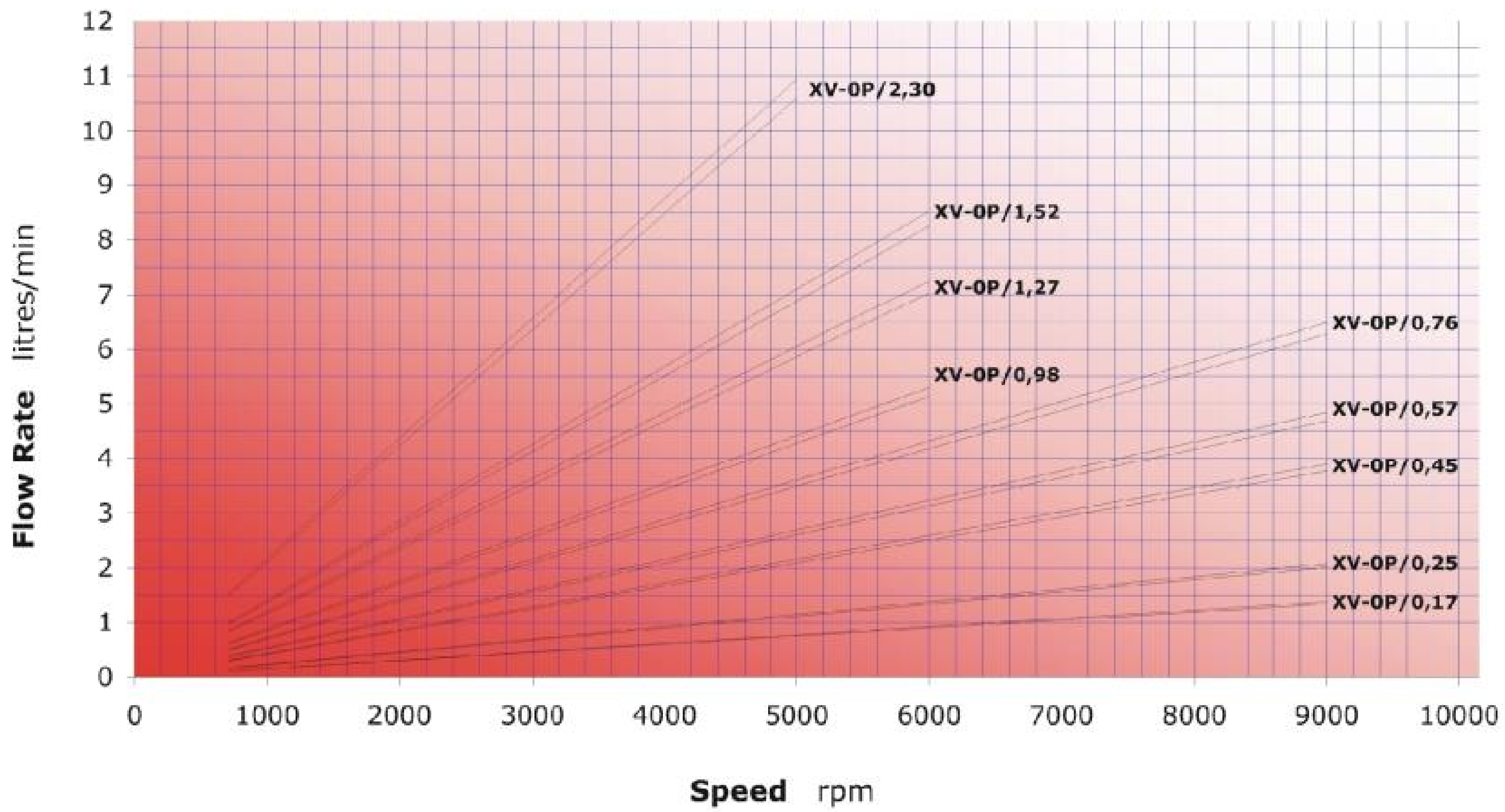
	Type	Displacement	Max. Pressure	Min speed	Max speed
XV-0P	XV-0P/0.17	0.16 cm <sup>3</sup> /rev	260 bar	700 rpm	9000 rpm
	XV-0P/0.25	0.24 cm <sup>3</sup> /rev	260 bar	700 rpm	9000 rpm
	XV-0P/0.45	0.45 cm <sup>3</sup> /rev	280 bar	700 rpm	9000 rpm
	XV-0P/0.57	0.56 cm <sup>3</sup> /rev	280 bar	700 rpm	9000 rpm
	XV-0P/0.76	0.75 cm <sup>3</sup> /rev	280 bar	700 rpm	9000 rpm
	XV-0P/0.98	0.92 cm <sup>3</sup> /rev	280 bar	700 rpm	6000 rpm
	XV-0P/1.27	1.26 cm <sup>3</sup> /rev	280 bar	700 rpm	6000 rpm
	XV-0P/1.52	1.48 cm <sup>3</sup> /rev	280 bar	700 rpm	6000 rpm
	XV-0P/2.30	2.28 cm <sup>3</sup> /rev	210 bar	700 rpm	5000 rpm
XV-1P	XV-1P/0.9	0.91 cm <sup>3</sup> /rev	280 bar	700 rpm	6000 rpm
	XV-1P/1.2	1.17 cm <sup>3</sup> /rev	290 bar	700 rpm	6000 rpm
	XV-1P/1.7	1.56 cm <sup>3</sup> /rev	290 bar	700 rpm	6000 rpm
	XV-1P/2.2	2.08 cm <sup>3</sup> /rev	290 bar	700 rpm	6000 rpm
	XV-1P/2.6	2.60 cm <sup>3</sup> /rev	300 bar	700 rpm	6000 rpm
	XV-1P/3.2	3.12 cm <sup>3</sup> /rev	300 bar	700 rpm	6000 rpm
	XV-1P/3.8	3.64 cm <sup>3</sup> /rev	300 bar	700 rpm	6000 rpm
	XV-1P/4.3	4.16 cm <sup>3</sup> /rev	300 bar	700 rpm	6000 rpm
	XV-1P/4.9	4.94 cm <sup>3</sup> /rev	300 bar	700 rpm	6000 rpm
	XV-1P/5.9	5.85 cm <sup>3</sup> /rev	300 bar	700 rpm	5000 rpm
	XV-1P/6.5	6.50 cm <sup>3</sup> /rev	300 bar	700 rpm	5000 rpm
	XV-1P/7.8	7.54 cm <sup>3</sup> /rev	260 bar	700 rpm	5000 rpm
	XV-1P/9.8	9.88 cm <sup>3</sup> /rev	230 bar	700 rpm	4000 rpm
	XV-2P	XV-2P/4	4.2 cm <sup>3</sup> /rev	300 bar	700 rpm
XV-2P/6		6.0 cm <sup>3</sup> /rev	300 bar	700 rpm	3500 rpm
XV-2P/9		8.4 cm <sup>3</sup> /rev	300 bar	700 rpm	3500 rpm
XV-2P/11		10.8 cm <sup>3</sup> /rev	300 bar	700 rpm	3500 rpm
XV-2P/14		14.4 cm <sup>3</sup> /rev	290 bar	700 rpm	3500 rpm
XV-2P/17		16.8 cm <sup>3</sup> /rev	270 bar	700 rpm	3500 rpm
XV-2P/19		19.2 cm <sup>3</sup> /rev	250 bar	700 rpm	3000 rpm
XV-2P/22		22.8 cm <sup>3</sup> /rev	240 bar	700 rpm	3000 rpm
XV-2P/26		26.2 cm <sup>3</sup> /rev	210 bar	700 rpm	3000 rpm
XV-2P/30		30.0 cm <sup>3</sup> /rev	200 bar	700 rpm	2500 rpm
XV-2P/34		34.2 cm <sup>3</sup> /rev	190 bar	700 rpm	2500 rpm
XV-2P/40		39.6 cm <sup>3</sup> /rev	180 bar	700 rpm	2000 rpm
XV-3P		XV-3P/15	14.89 cm <sup>3</sup> /rev	320 bar	700 rpm
	XV-3P/18	17.37 cm <sup>3</sup> /rev	320 bar	700 rpm	3000 rpm
	XV-3P/21	21.10 cm <sup>3</sup> /rev	300 bar	700 rpm	3000 rpm
	XV-3P/27	26.97 cm <sup>3</sup> /rev	270 bar	700 rpm	3000 rpm
	XV-3P/32	32.27 cm <sup>3</sup> /rev	270 bar	700 rpm	3000 rpm
	XV-3P/38	38.47 cm <sup>3</sup> /rev	270 bar	700 rpm	2800 rpm
	XV-3P/43	43.44 cm <sup>3</sup> /rev	250 bar	700 rpm	2800 rpm
	XV-3P/47	47.16 cm <sup>3</sup> /rev	250 bar	700 rpm	2800 rpm
	XV-3P/51	50.88 cm <sup>3</sup> /rev	250 bar	700 rpm	2800 rpm
	XV-3P/54	54.60 cm <sup>3</sup> /rev	250 bar	700 rpm	2300 rpm
	XV-3P/61	60.81 cm <sup>3</sup> /rev	220 bar	700 rpm	2300 rpm
	XV-3P/64	64.53 cm <sup>3</sup> /rev	220 bar	700 rpm	2300 rpm
	XV-3P/70	70.74 cm <sup>3</sup> /rev	210 bar	700 rpm	2300 rpm
	XV-3P/74	74.46 cm <sup>3</sup> /rev	190 bar	700 rpm	2300 rpm
XV-3P/90	86.87 cm <sup>3</sup> /rev	160 bar	700 rpm	2300 rpm	



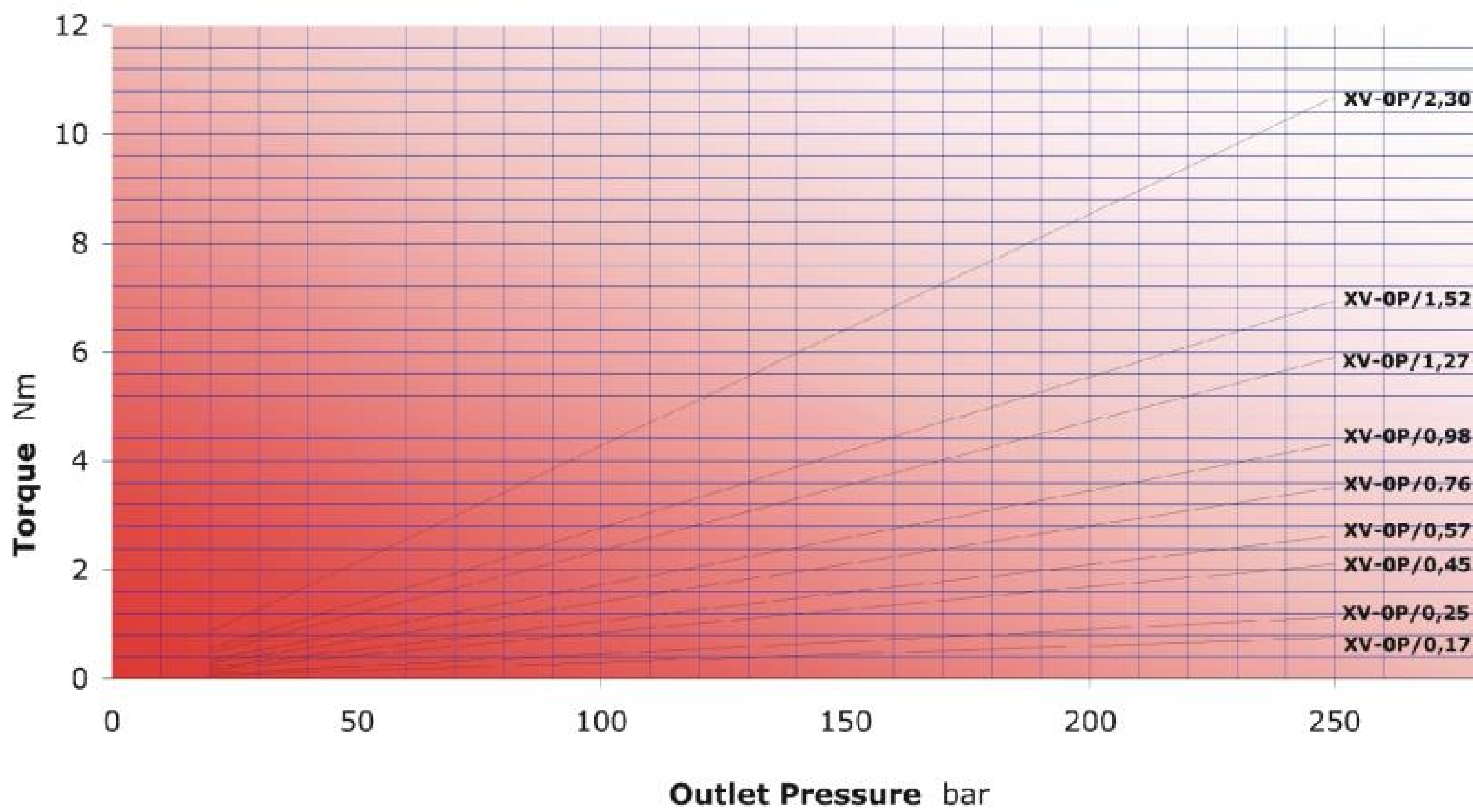
CHARACTERISTIC CURVES

XV-0P

XV-0P CHARACTERISTIC FLOW RATE CURVES



XV-0P MOTOR TORQUE

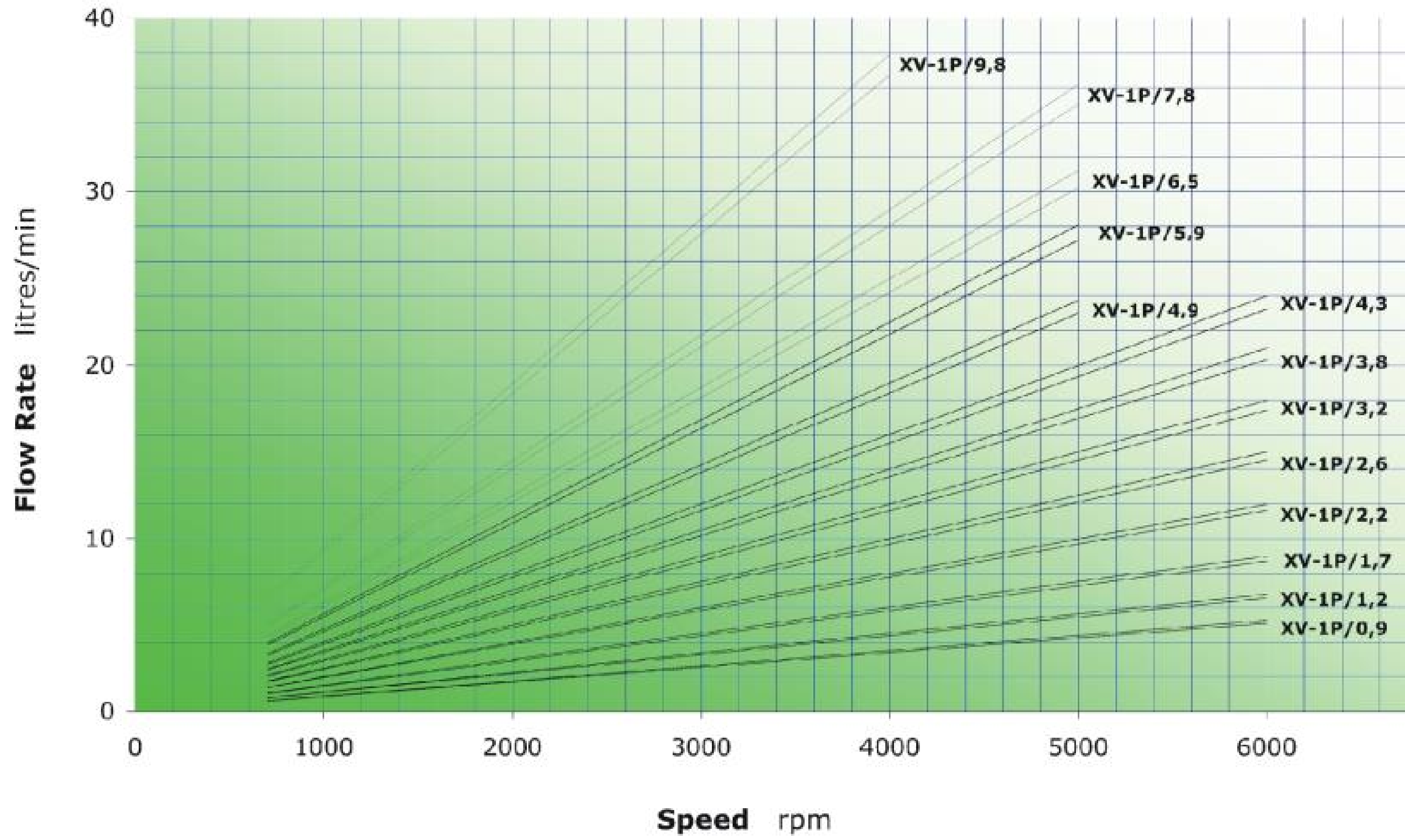




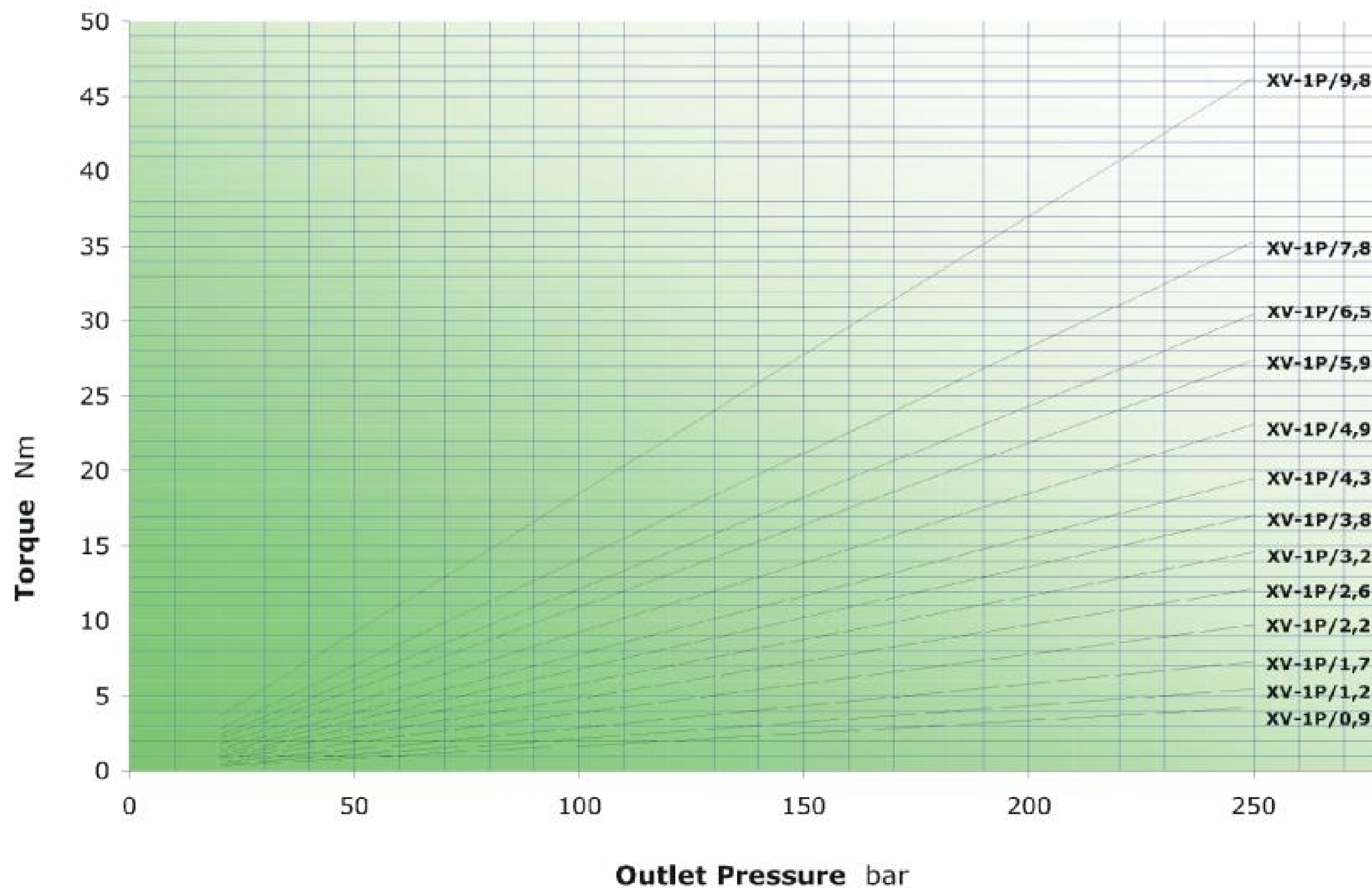
CHARACTERISTIC CURVES

XV-1P

XV-1P CHARACTERISTIC FLOW RATE CURVES



XV-1P MOTOR TORQUE

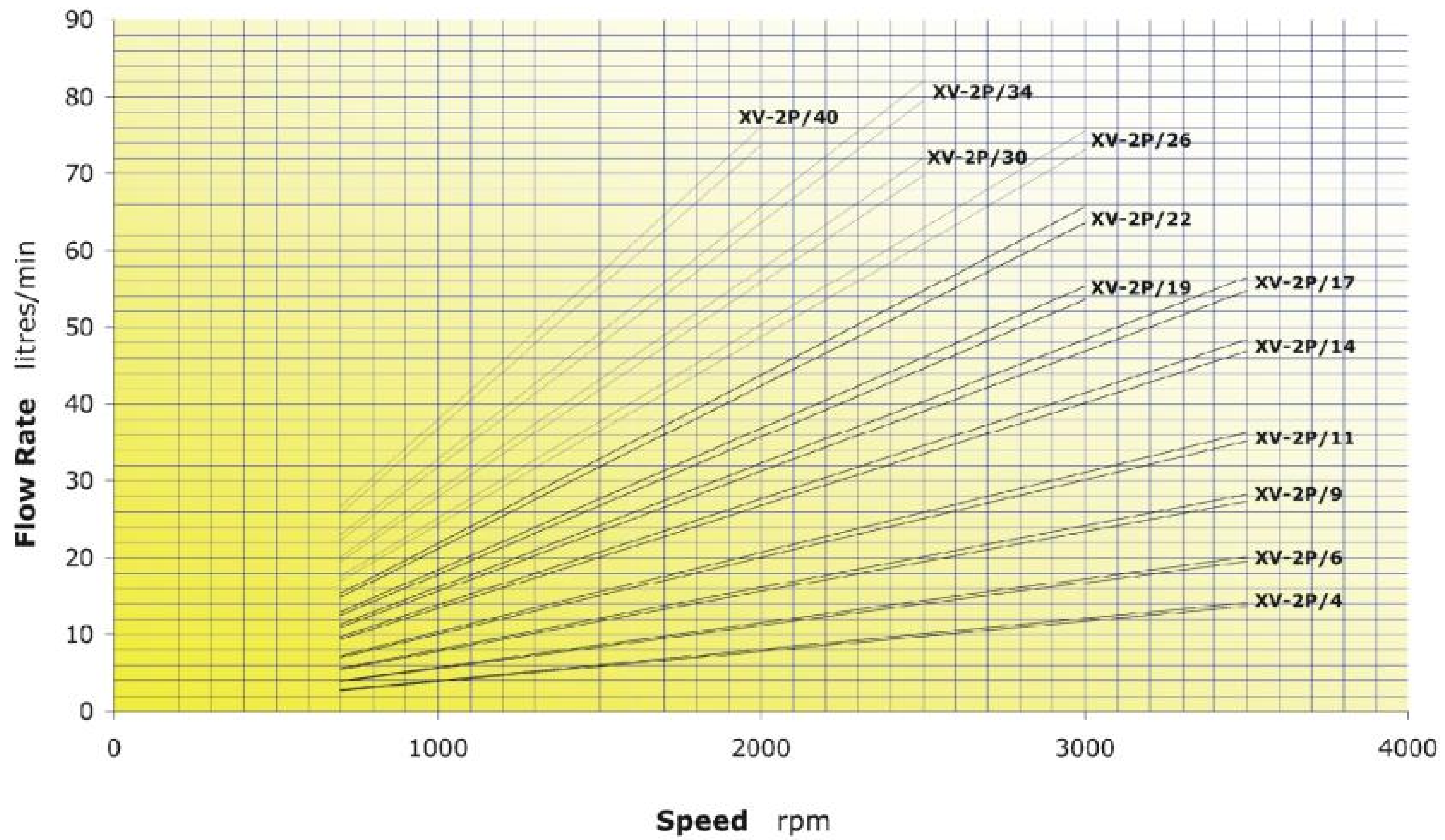




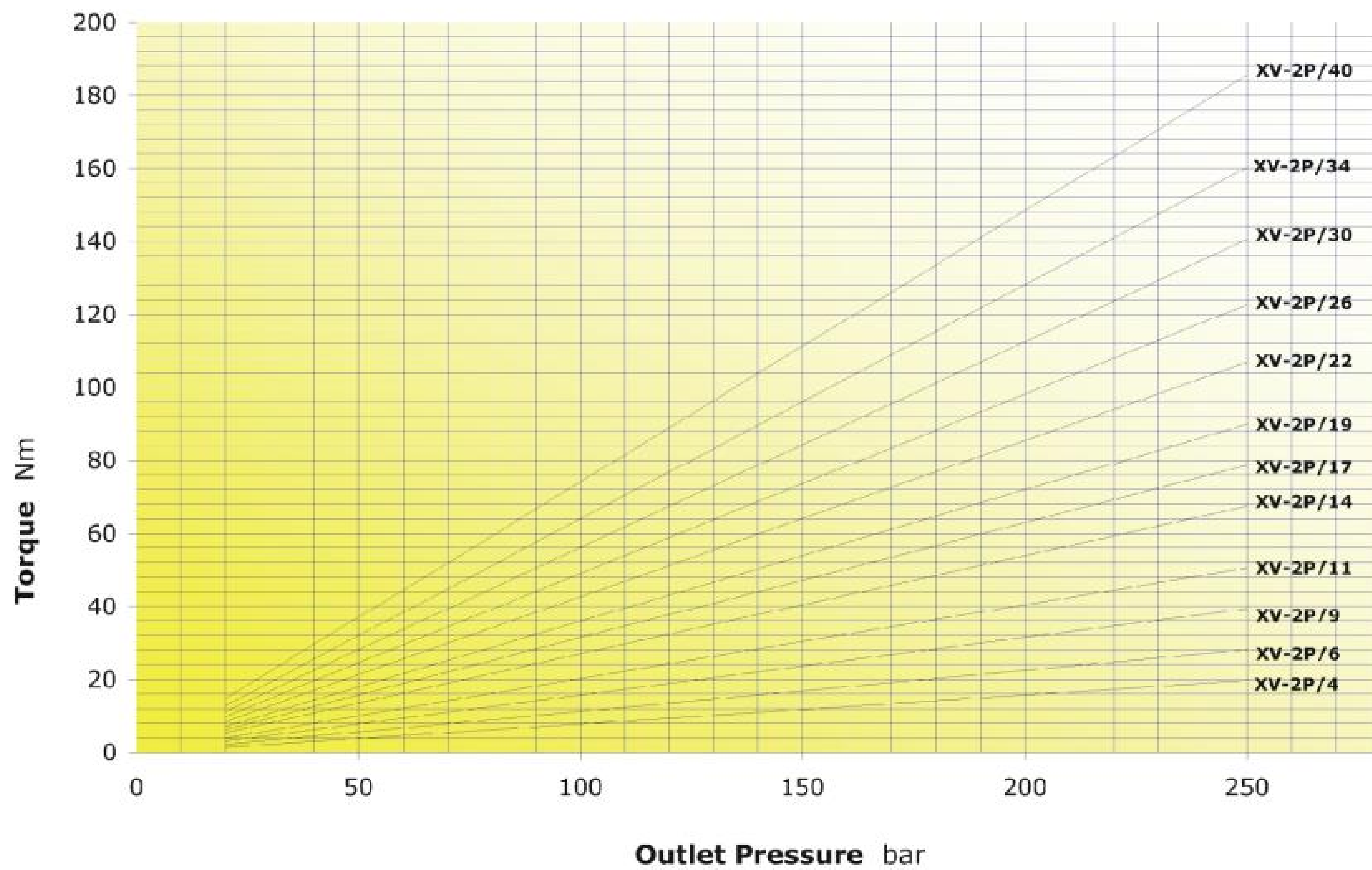
CHARACTERISTIC CURVES

**XV-2P**

**XV-2P CHARACTERISTIC FLOW RATE CURVES**



**XV-2P MOTOR TORQUE**



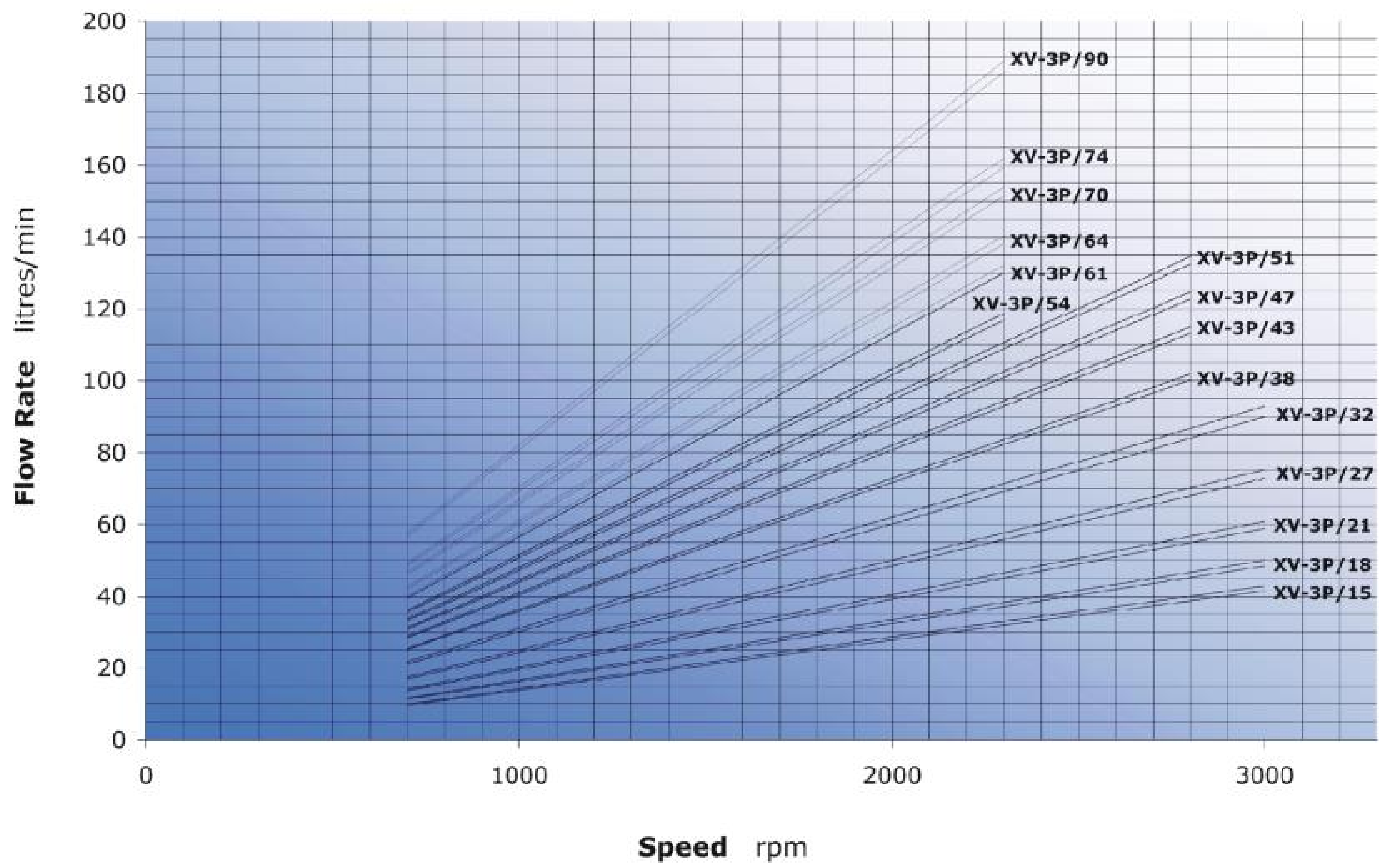




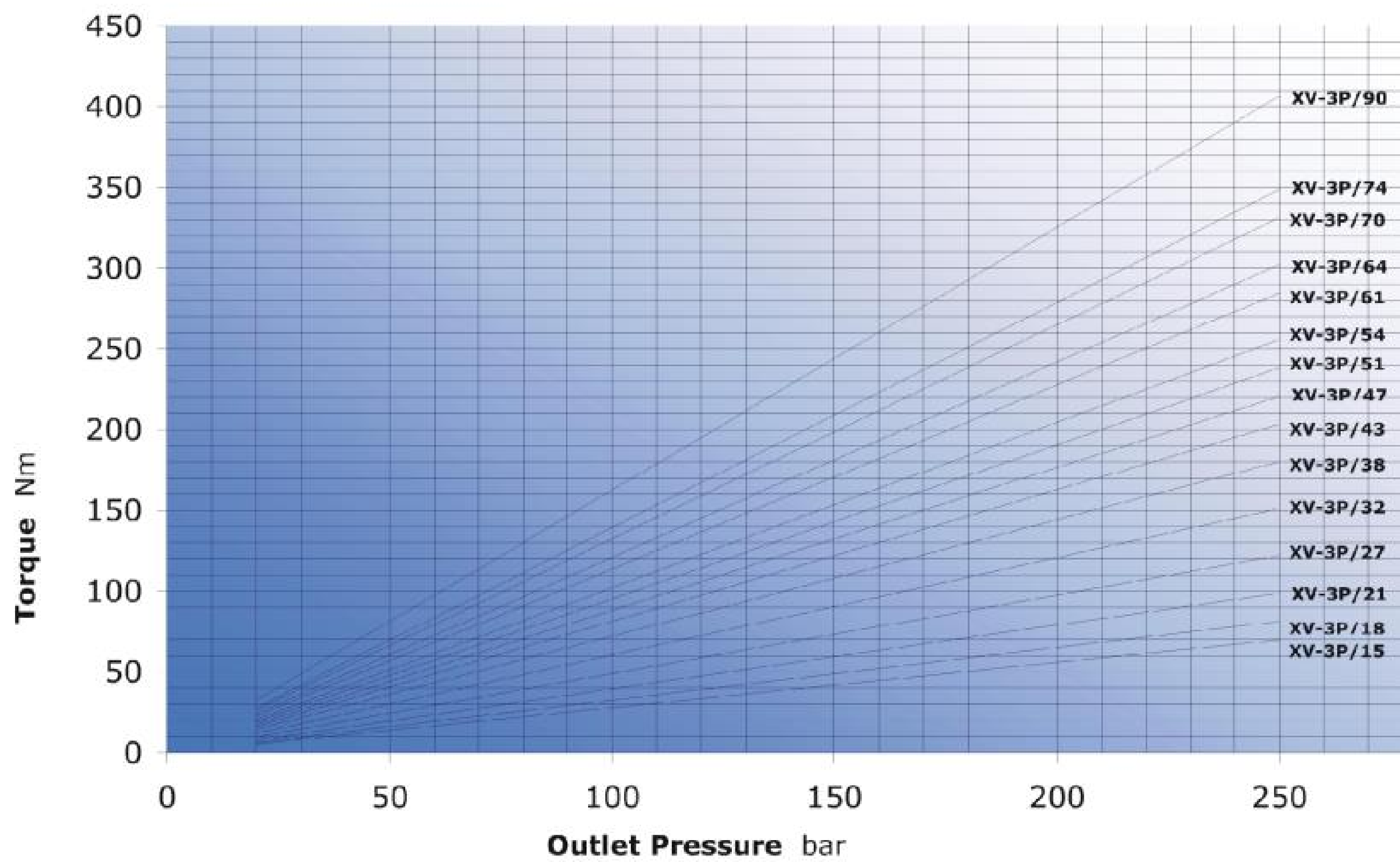
CHARACTERISTIC CURVES

XV-3P

XV-3P CHARACTERISTIC FLOW RATE CURVES



XV-3P MOTOR TORQUE





Changing the direction of pump rotation

**XV-2P**

**XV2-P with Flange  $\varnothing 36,5$**  (ref. XP- 201)

When changing the direction of rotation of the XV-2P pump, it is not necessary to change the flange, as the same one is used.

When disassembling and reassembling the pump, 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 pump.

FLANGE $\varnothing 36,5$ (ref. XP- 201)					
Remove the key, nut and washer from the shaft. Loosen and remove the fastening screws.	Take off the flange.	Take out the gears and upper bush. <b>Warning!!</b> The bush <b>must never</b> be turned.	Invert the positions of the driven and driving shafts. <b>Warning!</b> The body and cover must not be turned. Use the marking on the body as your reference.	Fit the previously removed flange back in place taking care to clean the body-base contact surfaces.	Replace the screws and tighten the nuts with a torque of 54 Nm to 58.9 Nm. Check that the shaft turns on completing the operation.
Note: with this rotation change system, the <b>inlets</b> and <b>outlets</b> remain unchanged.					

unidirectional pump - series XV

**XV-0P**

STANDARD PUMP W/ BODY INLET AND OUTLET  
 Ø22 FLANGE - PARALLEL SHAFT



**X 0 P 06 02 A B B A**

Series	X	series XV
Group	0	group 0
Category	P	unidirectional pump
Displacement	06	0.76
Flange	02	Ø22 right rotation
Shaft	A	C1001 - Parallel ø7 - M7x1 - key thk. 2
Body	IN	B inlet - 1/4" GAS
	OUT	B outlet - 1/4" GAS
Cover	A	standard

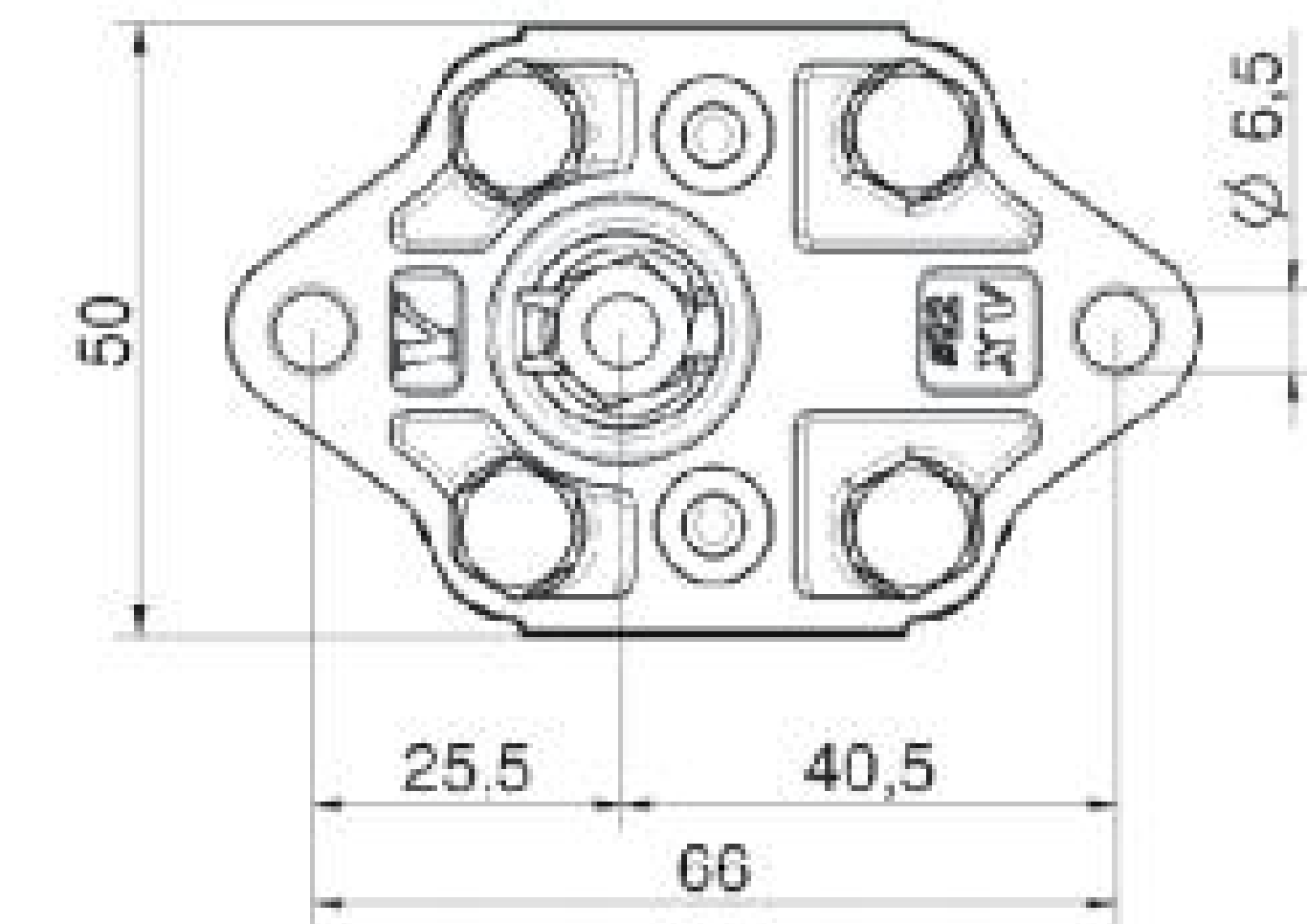
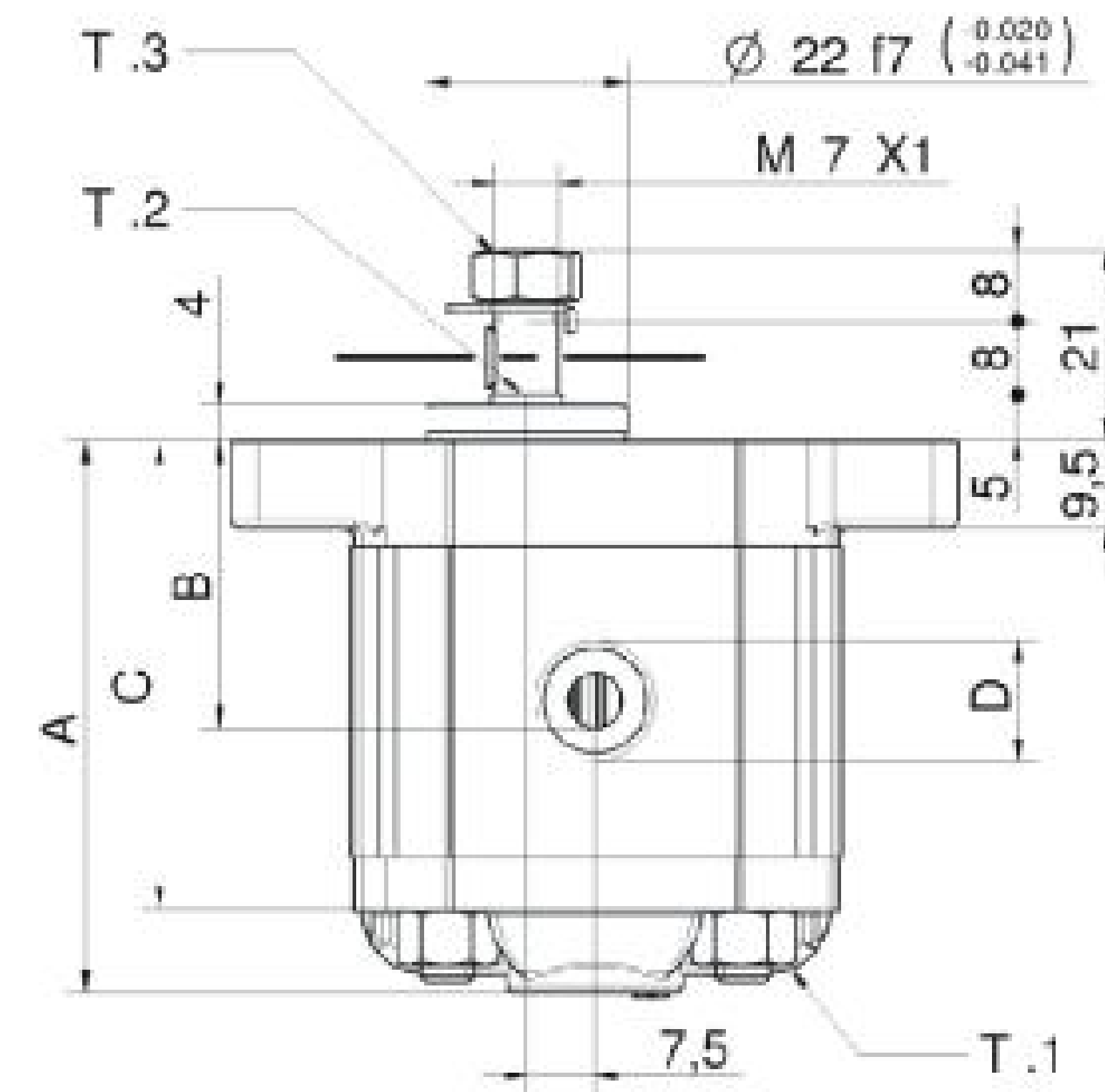
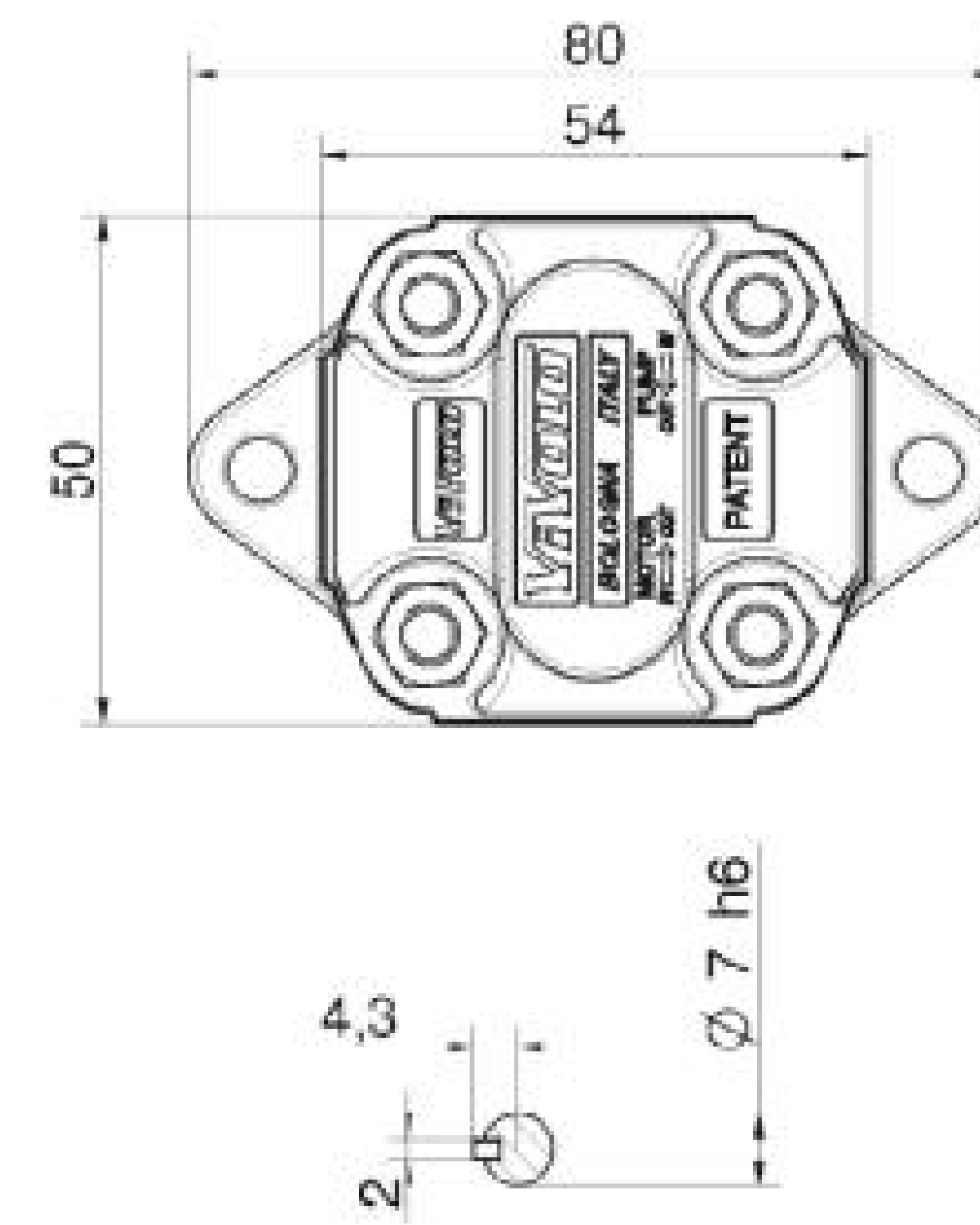


Reference **XP001**

Technical data table						
TYPE	Displacement cm3/rev	Max. Pressure		CODE		⊕
		P1 bar	P3 bar	Left rotation	Right rotation	
XV-0P/0.17	0,16	220	260	X 0 P 01 01 A B B A	X 0 P 01 02 A B B A	⊖
XV-0P/0.25	0,24	220	260	X 0 P 02 01 A B B A	X 0 P 02 02 A B B A	⊖
XV-0P/0.45	0,45	220	280	X 0 P 04 01 A B B A	X 0 P 04 02 A B B A	⊖
XV-0P/0.57	0,56	220	280	X 0 P 05 01 A B B A	X 0 P 05 02 A B B A	⊖
XV-0P/0.76	0,75	220	280	X 0 P 06 01 A B B A	X 0 P 06 02 A B B A	⊖
XV-0P/0.98	0,92	220	280	X 0 P 07 01 A B B A	X 0 P 07 02 A B B A	⊖
XV-0P/1.27	1,26	220	280	X 0 P 09 01 A B B A	X 0 P 09 02 A B B A	⊖
XV-0P/1.52	1,48	220	280	X 0 P 11 01 A B B A	X 0 P 11 02 A B B A	⊖
XV-0P/2.30	2,28	190	210	X 0 P 13 01 A B B A	X 0 P 13 02 A 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 kg	A	B	C	D	D
		mm	mm	mm	IN	OUT
XV-0P/0.17	0,400	55,8	26,2	46,8	1/4" BSPP	1/4" BSPP
XV-0P/0.25	0,410	56,4	26,5	47,4	1/4" BSPP	1/4" BSPP
XV-0P/0.45	0,420	58,0	27,3	49,0	1/4" BSPP	1/4" BSPP
XV-0P/0.57	0,430	59,0	27,8	50,0	1/4" BSPP	1/4" BSPP
XV-0P/0.76	0,440	60,5	28,5	51,5	1/4" BSPP	1/4" BSPP
XV-0P/0.98	0,460	62,0	29,3	53,0	1/4" BSPP	1/4" BSPP
XV-0P/1.27	0,480	64,5	30,5	55,5	1/4" BSPP	1/4" BSPP
XV-0P/1.52	0,500	66,5	31,5	57,5	1/4" BSPP	1/4" BSPP
XV-0P/2.30	0,560	72,5	34,5	63,5	1/4" BSPP	1/4" BSPP



T.1 = 11.7±13.7 [Nm] - screw tightening torque M6  
 T.2 = 2.1 [Nm] - admissible shaft torque (N.B. When choosing a shaft, always check the admissible torque).  
 T.3 = 11.5 [Nm] - torque wrench setting 11

unidirectional pump - series XV

XV-0P

BH TYPE PUMP W/ BODY INLET AND OUTLET  
 ø22 BODY-SHAPED FLANGE - MILLED SHANK



X 0 P 06 12 B B B A

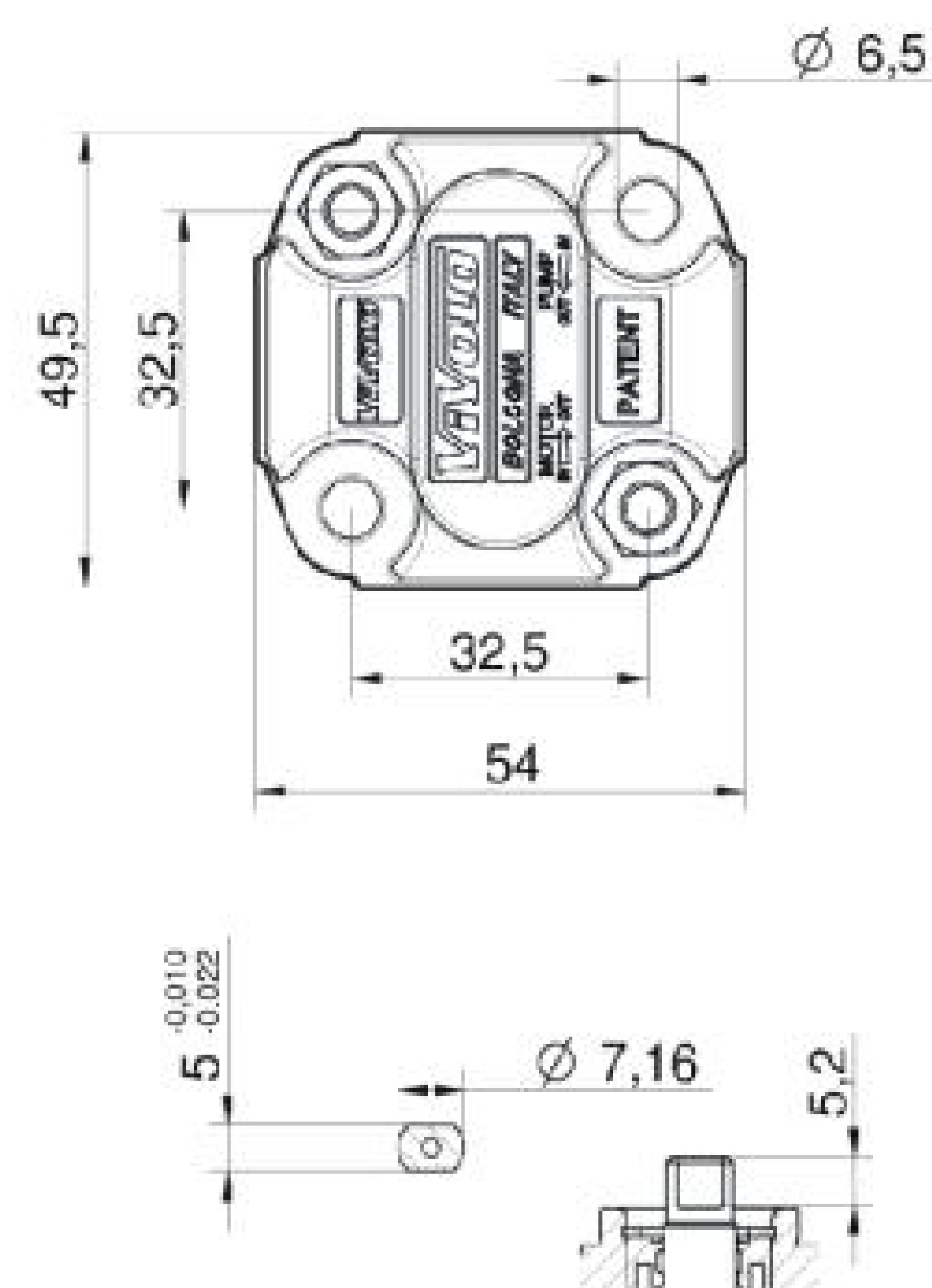
Series	X	series XV
Group	0	group 0
Category	P	unidirectional pump
Displacement	06	0.76
Flange	12	Ø22 BH right rotation
Shaft	B	CF001 - Milled shank ø7 - thk.5
Body	IN	inlet - 1/4" GAS
	OUT	outlet - 1/4" GAS
Cover	A	standard



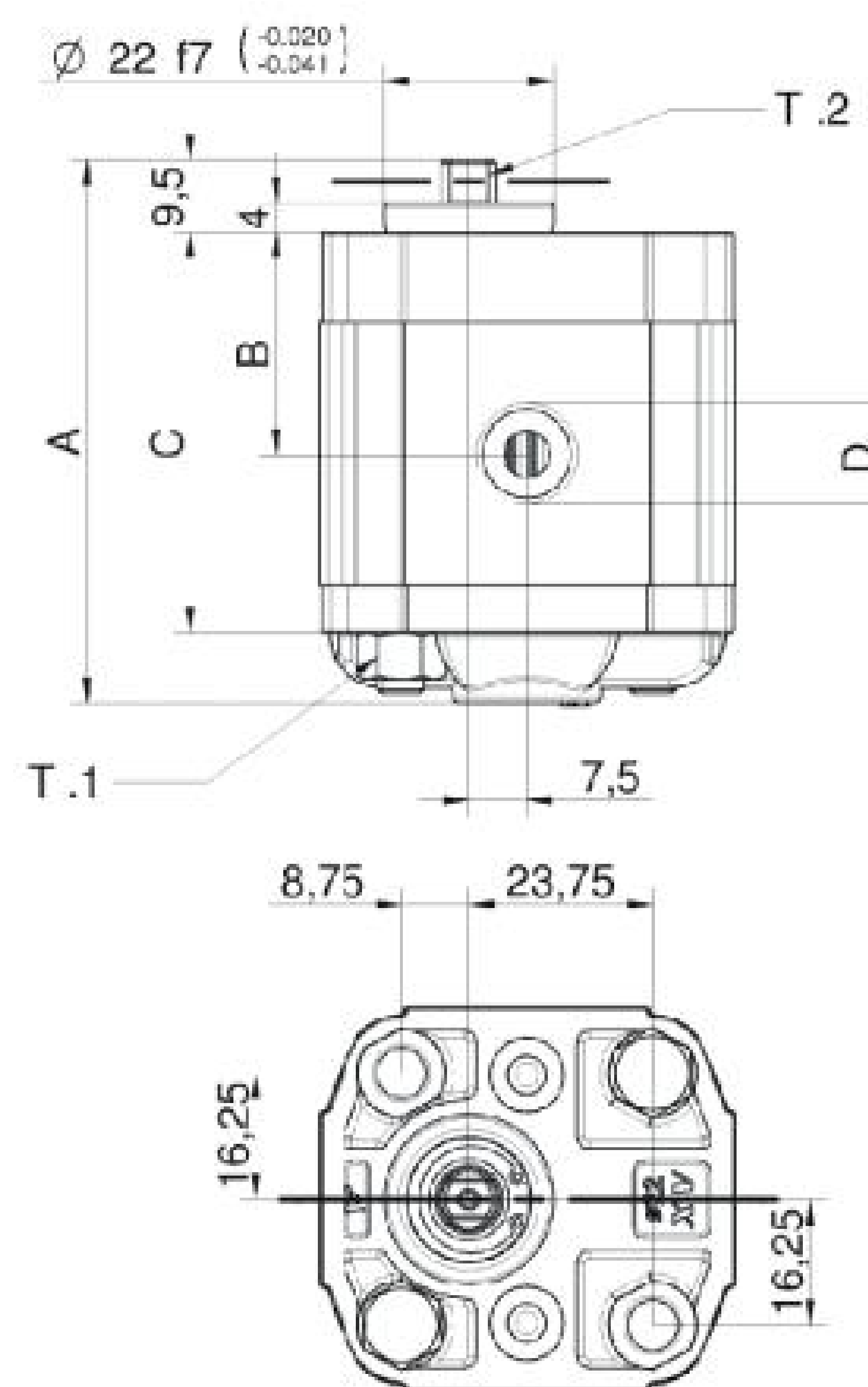
Reference XP012

Technical data table						
TYPE	Displacement cm3/rev	Max. Pressure		CODE		
		P1 bar	P3 bar	Left rotation	Right rotation	
XV-0P/0.17	0,16	220	260	X 0 P 01 11 B B B A	X 0 P 01 12 B B B A	
XV-0P/0.25	0,24	220	260	X 0 P 02 11 B B B A	X 0 P 02 12 B B B A	
XV-0P/0.45	0,45	220	280	X 0 P 04 11 B B B A	X 0 P 04 12 B B B A	
XV-0P/0.57	0,56	220	280	X 0 P 05 11 B B B A	X 0 P 05 12 B B B A	
XV-0P/0.76	0,75	220	280	X 0 P 06 11 B B B A	X 0 P 06 12 B B B A	
XV-0P/0.98	0,92	220	280	X 0 P 07 11 B B B A	X 0 P 07 12 B B B A	
XV-0P/1.27	1,26	220	280	X 0 P 09 11 B B B A	X 0 P 09 12 B B B A	
XV-0P/1.52	1,48	220	280	X 0 P 11 11 B B B A	X 0 P 11 12 B B B A	
XV-0P/2.30	2,28	190	210	X 0 P 13 11 B B B A	X 0 P 13 12 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 kg	A	B	C	D	D
		mm	mm	mm	IN	OUT
XV-0P/0.17	0,400	55,8	26,2	46,8	1/4" BSPP	1/4" BSPP
XV-0P/0.25	0,410	56,4	26,5	47,4	1/4" BSPP	1/4" BSPP
XV-0P/0.45	0,420	58,0	27,3	49,0	1/4" BSPP	1/4" BSPP
XV-0P/0.57	0,430	59,0	27,8	50,0	1/4" BSPP	1/4" BSPP
XV-0P/0.76	0,440	60,5	28,5	51,5	1/4" BSPP	1/4" BSPP
XV-0P/0.98	0,460	62,0	29,3	53,0	1/4" BSPP	1/4" BSPP
XV-0P/1.27	0,480	64,5	30,5	55,5	1/4" BSPP	1/4" BSPP
XV-0P/1.52	0,500	66,5	31,5	57,5	1/4" BSPP	1/4" BSPP
XV-0P/2.30	0,560	72,5	34,5	63,5	1/4" BSPP	1/4" BSPP



T.1 = 11.7±13.7 [Nm] - screw tightening torque M6  
 T.2 = 9.2 [Nm] - admissible shaft torque (N.B. When choosing a shaft, always check the admissible torque).

unidirectional pump - series XV

XV-0P

HY TYPE PUMP W/ BODY INLET AND OUTLET  
 ø22 BODY-SHAPED FLANGE - MILLED SHANK



X 0 P 06 22 B B B A

Series	X	series XV
Group	0	group 0
Category	P	unidirectional pump
Displacement	06	0.76
Flange	22	Ø22 HY right rotation
Shaft	B	CF001 - Milled shank ø7 - thk.5
Body	IN	inlet - 1/4" GAS
	OUT	outlet - 1/4" GAS
Cover	A	standard

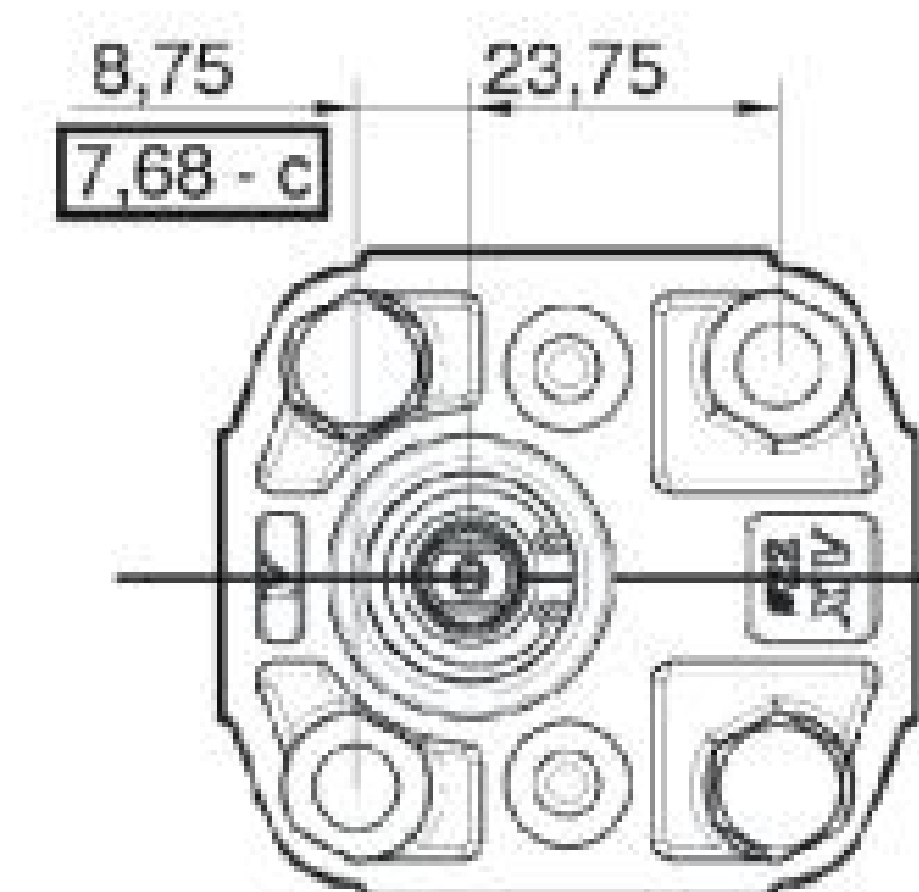
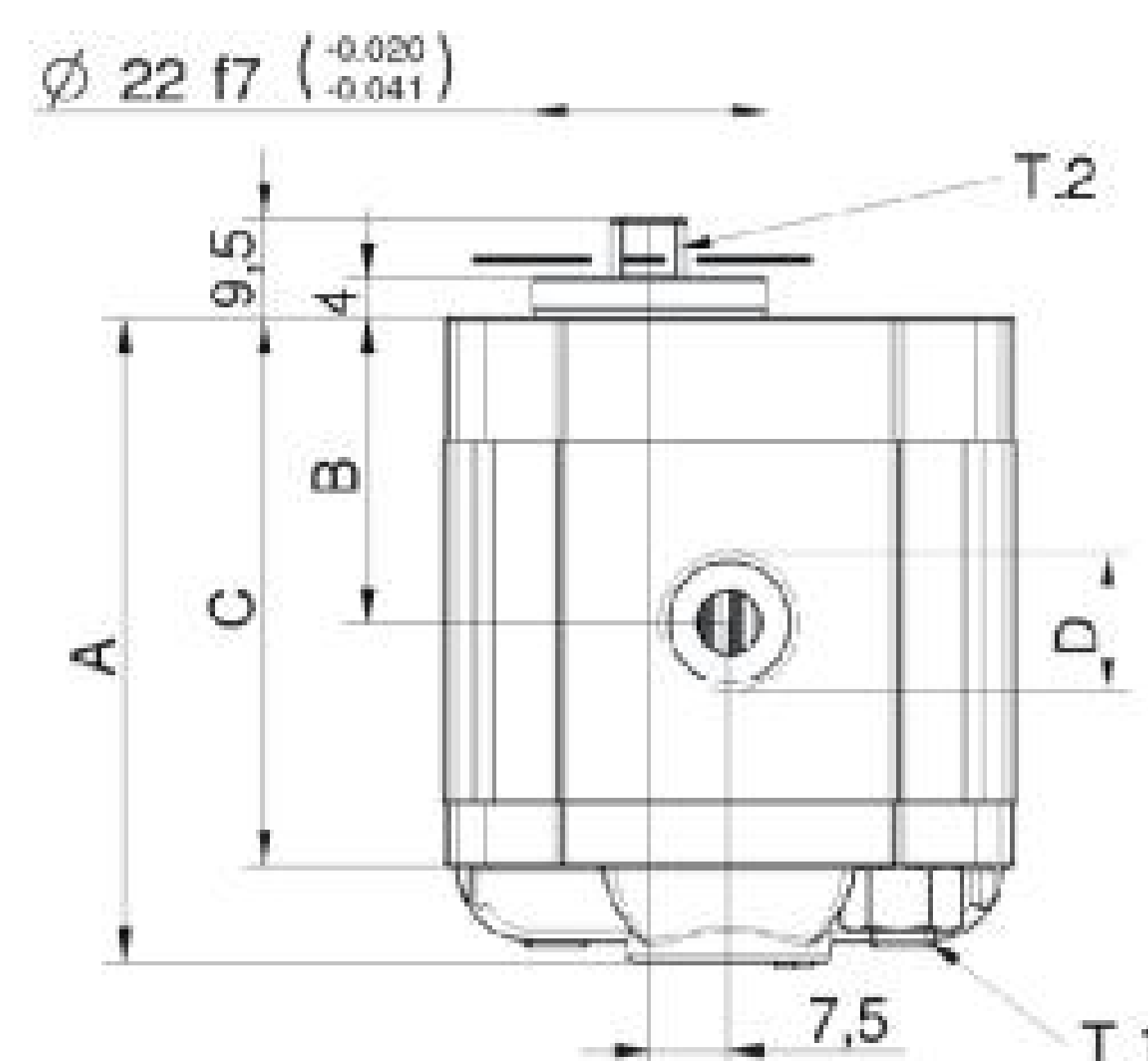
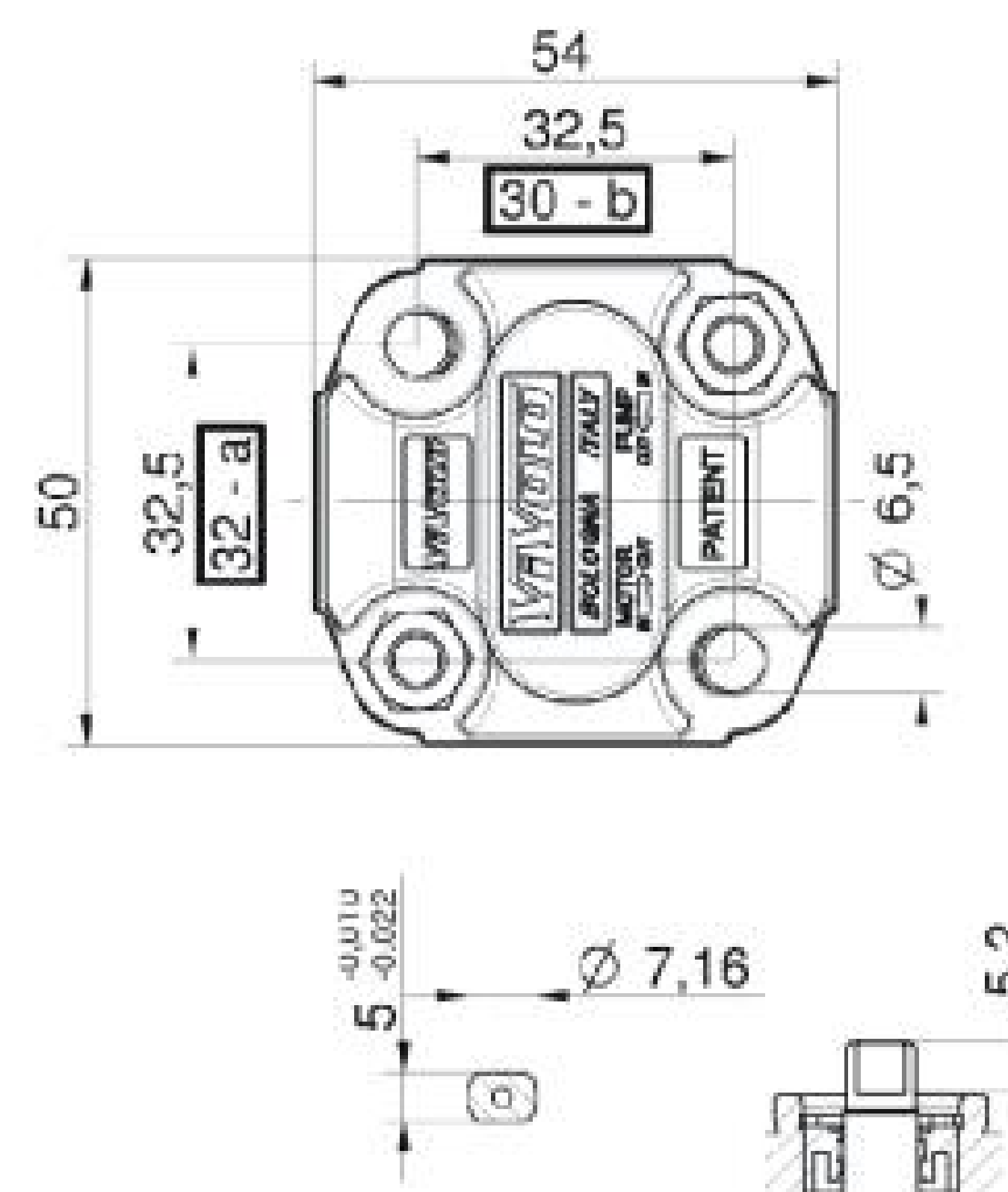


Reference XP017

Technical data table						
TYPE	Displacement cm3/rev	Max. Pressure		CODE		
		P1 bar	P3 bar	Left rotation		Right rotation
XV-0P/0.17	0,16	220	260	X 0 P 01 21 B B B A	X 0 P 01 22 B B B A	
XV-0P/0.25	0,24	220	260	X 0 P 02 21 B B B A	X 0 P 02 22 B B B A	
XV-0P/0.45	0,45	220	280	X 0 P 04 21 B B B A	X 0 P 04 22 B B B A	
XV-0P/0.57	0,56	220	280	X 0 P 05 21 B B B A	X 0 P 05 22 B B B A	
XV-0P/0.76	0,75	220	280	X 0 P 06 21 B B B A	X 0 P 06 22 B B B A	
XV-0P/0.98	0,92	220	280	X 0 P 07 21 B B B A	X 0 P 07 22 B B B A	
XV-0P/1.27	1,26	220	280	X 0 P 09 21 B B B A	X 0 P 09 22 B B B A	
XV-0P/1.52	1,48	220	280	X 0 P 11 21 B B B A	X 0 P 11 22 B B B A	
XV-0P/2.30	2,28	190	210	X 0 P 13 21 B B B A	X 0 P 13 22 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 kg	A	B	C	D	D
		mm	mm	mm	IN	OUT
XV-0P/0.17	0,400	55,8	26,2	46,8	1/4" BSPP	1/4" BSPP
XV-0P/0.25	0,410	56,4	26,5	47,4	1/4" BSPP	1/4" BSPP
XV-0P/0.45	0,420	58,0	27,3	49,0	1/4" BSPP	1/4" BSPP
XV-0P/0.57	0,430	59,0	27,8	50,0	1/4" BSPP	1/4" BSPP
XV-0P/0.76	0,440	60,5	28,5	51,5	1/4" BSPP	1/4" BSPP
XV-0P/0.98	0,460	62,0	29,3	53,0	1/4" BSPP	1/4" BSPP
XV-0P/1.27	0,480	64,5	30,5	55,5	1/4" BSPP	1/4" BSPP
XV-0P/1.52	0,500	66,5	31,5	57,5	1/4" BSPP	1/4" BSPP
XV-0P/2.30	0,560	72,5	34,5	63,5	1/4" BSPP	1/4" BSPP

T.1 = 11.7±13.7 [Nm] - screw tightening torque M6

T.2 = 9.2 [Nm] - admissible shaft torque (N.B. When choosing a shaft, always check the admissible torque).

NOTE: This type of pump is also interchangeable

with distance between centres of fastening in M5 (see dim. a, b, c).

07/204 XP0622BBAA#

unidirectional pump - series XV

XV-1P

STANDARD EUROPEAN PUMP  
 ø25.4 FLANGE - TAPER SHAFT



X 1 P 25 02 F I I A

Series	X	series XV
Group	1	group 1
Category	P	unidirectional pump
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	inlet - Ø30 Ø12 M6
	OUT	outlet - Ø30 Ø12 M6
Cover	A	standard

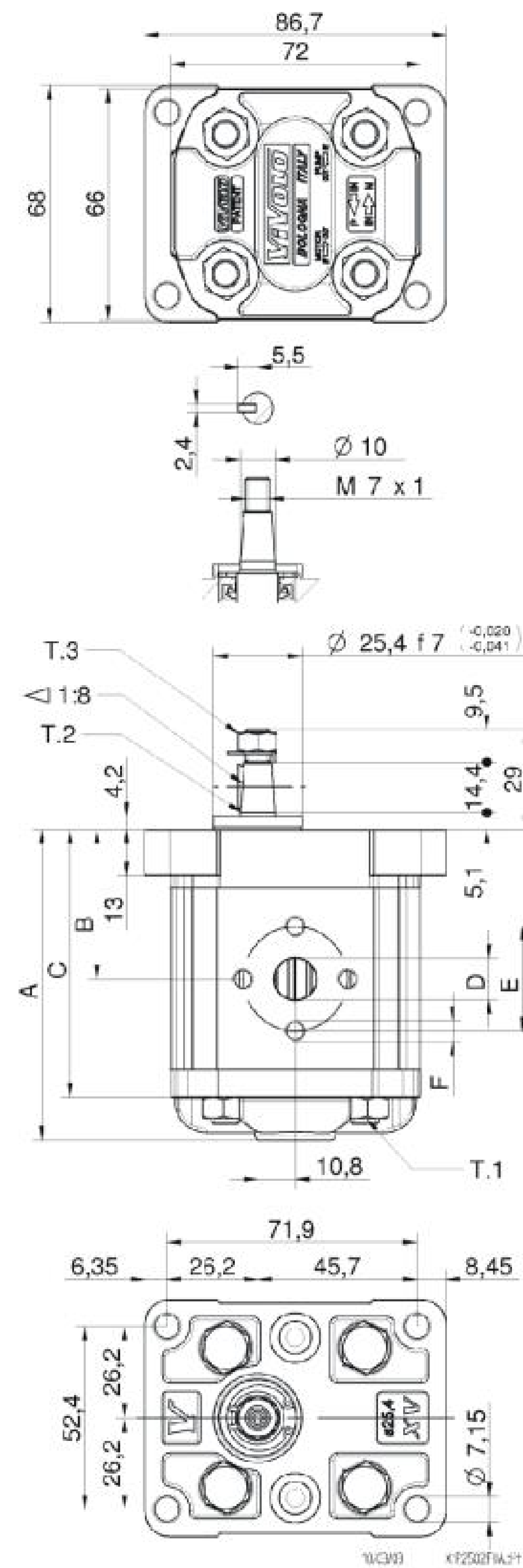


Reference XP101

Technical data table																					
TYPE	Displacement cm3/rev	Max. Pressure		CODE																	
		P1 bar	P3 bar	Left rotation			Right rotation														
XV-1P/0.9	0,91	240	280	X	1	P	16	01	F	I	I	A	X	1	P	16	02	F	I	I	A
XV-1P/1.2	1,17	250	290	X	1	P	17	01	F	I	I	A	X	1	P	17	02	F	I	I	A
XV-1P/1.7	1,56	250	290	X	1	P	18	01	F	I	I	A	X	1	P	18	02	F	I	I	A
XV-1P/2.2	2,08	250	290	X	1	P	20	01	F	I	I	A	X	1	P	20	02	F	I	I	A
XV-1P/2.6	2,60	250	300	X	1	P	21	01	F	I	I	A	X	1	P	21	02	F	I	I	A
XV-1P/3.2	3,12	250	300	X	1	P	23	01	F	I	I	A	X	1	P	23	02	F	I	I	A
XV-1P/3.8	3,64	250	300	X	1	P	25	01	F	I	I	A	X	1	P	25	02	F	I	I	A
XV-1P/4.3	4,16	250	300	X	1	P	27	01	F	I	I	A	X	1	P	27	02	F	I	I	A
XV-1P/4.9	4,94	250	300	X	1	P	29	01	F	I	I	A	X	1	P	29	02	F	I	I	A
XV-1P/5.9	5,85	250	300	X	1	P	31	01	F	I	I	A	X	1	P	31	02	F	I	I	A
XV-1P/6.5	6,50	250	300	X	1	P	32	01	F	I	I	A	X	1	P	32	02	F	I	I	A
XV-1P/7.8	7,54	220	260	X	1	P	34	01	F	I	I	A	X	1	P	34	02	F	I	I	A
XV-1P/9.8	9,88	190	230	X	1	P	36	01	F	I	I	A	X	1	P	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 kg	A	B	C	D	E	F	D	E	F
		mm	mm	mm	IN			OUT		
XV-1P/0.9	0,950	78,1	37,3	66,1	ø12	30	M6x1	ø12	30	M6x1
XV-1P/1.2	0,970	79,0	37,8	67,0	ø12	30	M6x1	ø12	30	M6x1
XV-1P/1.7	1,010	80,5	38,5	68,5	ø12	30	M6x1	ø12	30	M6x1
XV-1P/2.2	1,030	82,5	39,5	70,5	ø12	30	M6x1	ø12	30	M6x1
XV-1P/2.6	1,060	84,5	40,5	72,5	ø12	30	M6x1	ø12	30	M6x1
XV-1P/3.2	1,090	86,5	41,5	74,5	ø12	30	M6x1	ø12	30	M6x1
XV-1P/3.8	1,120	88,5	42,5	76,5	ø12	30	M6x1	ø12	30	M6x1
XV-1P/4.3	1,170	90,5	43,5	78,5	ø12	30	M6x1	ø12	30	M6x1
XV-1P/4.9	1,200	93,5	45,0	81,5	ø12	30	M6x1	ø12	30	M6x1
XV-1P/5.9	1,260	97,0	46,8	85,0	ø12	30	M6x1	ø12	30	M6x1
XV-1P/6.5	1,300	98,5	48,0	86,5	ø12	30	M6x1	ø12	30	M6x1
XV-1P/7.8	1,360	103,5	50,0	91,5	ø12	30	M6x1	ø12	30	M6x1
XV-1P/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.2 = 43 [Nm] - admissible shaft torque (N.B. When choosing a shaft, always check the admissible torque).  
 T.3 = 11.5 [Nm] - torque wrench setting 11

unidirectional pump - series XV

XV-1P

STANDARD EUROPEAN PUMP  
 ø25.4 FLANGE - TAPER SHAFT



X 1 P 25 02 F B B A

Series	X	series XV
Group	1	group 1
Category	P	unidirectional pump
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
	OUT	B outlet - 3/8" GAS
Cover	A	standard

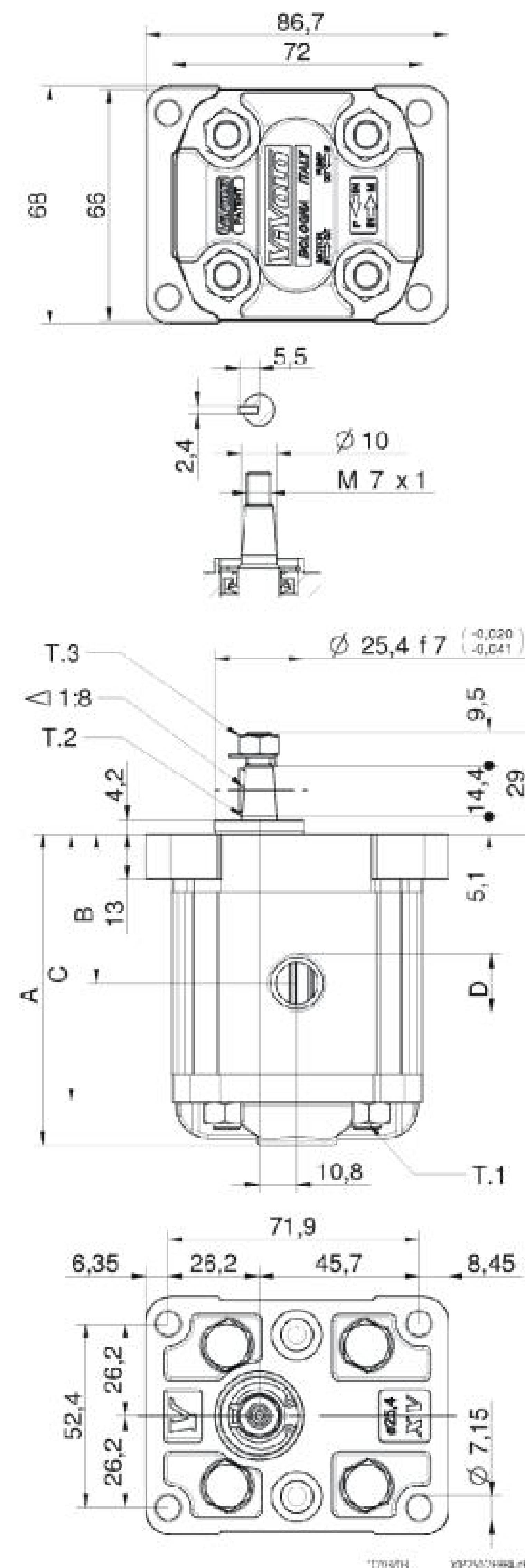


Reference XP105

Technical data table						
TYPE	Displacement cm3/rev	Max. Pressure		CODE		
		P1 bar	P3 bar	Left rotation		Right rotation
XV-1P/0.9	0,91	240	280	X 1 P 16 01 F B B A	X 1 P 16 02 F B B A	
XV-1P/1.2	1,17	250	290	X 1 P 17 01 F B B A	X 1 P 17 02 F B B A	
XV-1P/1.7	1,56	250	290	X 1 P 18 01 F B B A	X 1 P 18 02 F B B A	
XV-1P/2.2	2,08	250	290	X 1 P 20 01 F B B A	X 1 P 20 02 F B B A	
XV-1P/2.6	2,60	250	300	X 1 P 21 01 F B B A	X 1 P 21 02 F B B A	
XV-1P/3.2	3,12	250	300	X 1 P 23 01 F B B A	X 1 P 23 02 F B B A	
XV-1P/3.8	3,64	250	300	X 1 P 25 01 F B B A	X 1 P 25 02 F B B A	
XV-1P/4.3	4,16	250	300	X 1 P 27 01 F B B A	X 1 P 27 02 F B B A	
XV-1P/4.9	4,94	250	300	X 1 P 29 01 F B B A	X 1 P 29 02 F B B A	
XV-1P/5.9	5,85	250	300	X 1 P 31 01 F B B A	X 1 P 31 02 F B B A	
XV-1P/6.5	6,50	250	300	X 1 P 32 01 F B B A	X 1 P 32 02 F B B A	
XV-1P/7.8	7,54	220	260	X 1 P 34 01 F B B A	X 1 P 34 02 F B B A	
XV-1P/9.8	9,88	190	230	X 1 P 36 01 F B B A	X 1 P 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 kg	A	B	C	D	D
		mm	mm	mm	IN	OUT
XV-1P/0.9	0,950	78,1	37,3	66,1	3/8" BSPP	3/8" BSPP
XV-1P/1.2	0,970	79,0	37,8	67,0	3/8" BSPP	3/8" BSPP
XV-1P/1.7	1,010	80,5	38,5	68,5	3/8" BSPP	3/8" BSPP
XV-1P/2.2	1,030	82,5	39,5	70,5	3/8" BSPP	3/8" BSPP
XV-1P/2.6	1,060	84,5	40,5	72,5	3/8" BSPP	3/8" BSPP
XV-1P/3.2	1,090	86,5	41,5	74,5	3/8" BSPP	3/8" BSPP
XV-1P/3.8	1,120	88,5	42,5	76,5	3/8" BSPP	3/8" BSPP
XV-1P/4.3	1,170	90,5	43,5	78,5	3/8" BSPP	3/8" BSPP
XV-1P/4.9	1,200	93,5	45,0	81,5	3/8" BSPP	3/8" BSPP
XV-1P/5.9	1,260	97,0	46,8	85,0	3/8" BSPP	3/8" BSPP
XV-1P/6.5	1,300	98,5	48,0	86,5	3/8" BSPP	3/8" BSPP
XV-1P/7.8	1,360	103,5	50,0	91,5	3/8" BSPP	3/8" BSPP
XV-1P/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.2 = 43 [Nm] - admissible shaft torque (N.B. When choosing a shaft, always check the admissible torque).  
 T.3 = 11.5 [Nm] - torque wrench setting 11

unidirectional pump - series XV

XV-1P

STANDARD PUMP  
ø30 FLANGE - TAPER SHAFT



X 1 P 25 12 G I I A

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

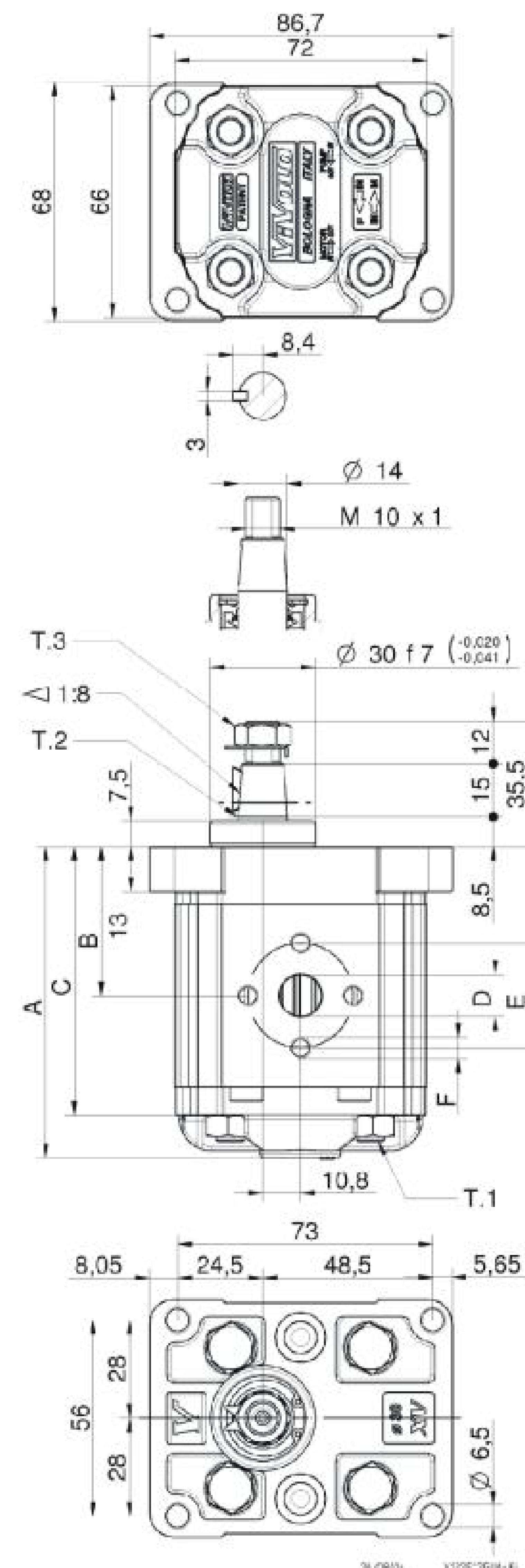


Reference XP113

Technical data table																					
TYPE	Displacement cm3/rev	Max. Pressure		CODE																	
		P1 bar	P3 bar	Left rotation			Right rotation														
XV-1P/0.9	0,91	240	280	X	1	P	16	11	G	I	I	A	X	1	P	16	12	G	I	I	A
XV-1P/1.2	1,17	250	290	X	1	P	17	11	G	I	I	A	X	1	P	17	12	G	I	I	A
XV-1P/1.7	1,56	250	290	X	1	P	18	11	G	I	I	A	X	1	P	18	12	G	I	I	A
XV-1P/2.2	2,08	250	290	X	1	P	20	11	G	I	I	A	X	1	P	20	12	G	I	I	A
XV-1P/2.6	2,60	250	300	X	1	P	21	11	G	I	I	A	X	1	P	21	12	G	I	I	A
XV-1P/3.2	3,12	250	300	X	1	P	23	11	G	I	I	A	X	1	P	23	12	G	I	I	A
XV-1P/3.8	3,64	250	300	X	1	P	25	11	G	I	I	A	X	1	P	25	12	G	I	I	A
XV-1P/4.3	4,16	250	300	X	1	P	27	11	G	I	I	A	X	1	P	27	12	G	I	I	A
XV-1P/4.9	4,94	250	300	X	1	P	29	11	G	I	I	A	X	1	P	29	12	G	I	I	A
XV-1P/5.9	5,85	250	300	X	1	P	31	11	G	I	I	A	X	1	P	31	12	G	I	I	A
XV-1P/6.5	6,50	250	300	X	1	P	32	11	G	I	I	A	X	1	P	32	12	G	I	I	A
XV-1P/7.8	7,54	220	260	X	1	P	34	11	G	I	I	A	X	1	P	34	12	G	I	I	A
XV-1P/9.8	9,88	190	230	X	1	P	36	11	G	I	I	A	X	1	P	36	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 kg	A	B	C	D	E	F	D	E	F
		mm	mm	mm	IN	OUT	OUT	OUT	OUT	OUT
XV-1P/0.9	0,950	78,1	37,3	66,1	ø12	30	M6x1	ø12	30	M6x1
XV-1P/1.2	0,970	79,0	37,8	67,0	ø12	30	M6x1	ø12	30	M6x1
XV-1P/1.7	1,010	80,5	38,5	68,5	ø12	30	M6x1	ø12	30	M6x1
XV-1P/2.2	1,030	82,5	39,5	70,5	ø12	30	M6x1	ø12	30	M6x1
XV-1P/2.6	1,060	84,5	40,5	72,5	ø12	30	M6x1	ø12	30	M6x1
XV-1P/3.2	1,090	86,5	41,5	74,5	ø12	30	M6x1	ø12	30	M6x1
XV-1P/3.8	1,120	88,5	42,5	76,5	ø12	30	M6x1	ø12	30	M6x1
XV-1P/4.3	1,170	90,5	43,5	78,5	ø12	30	M6x1	ø12	30	M6x1
XV-1P/4.9	1,200	93,5	45,0	81,5	ø12	30	M6x1	ø12	30	M6x1
XV-1P/5.9	1,260	97,0	46,8	85,0	ø12	30	M6x1	ø12	30	M6x1
XV-1P/6.5	1,300	98,5	48,0	86,5	ø12	30	M6x1	ø12	30	M6x1
XV-1P/7.8	1,360	103,5	50,0	91,5	ø12	30	M6x1	ø12	30	M6x1
XV-1P/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.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



unidirectional pump - series XV

XV-1P

"BH" TYPE PUMP W/ BODY INLET AND OUTLET  
 ø32 BODY-SHAPED FLANGE - MILLED SHANK



X 1 P 25 42 D B B A

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

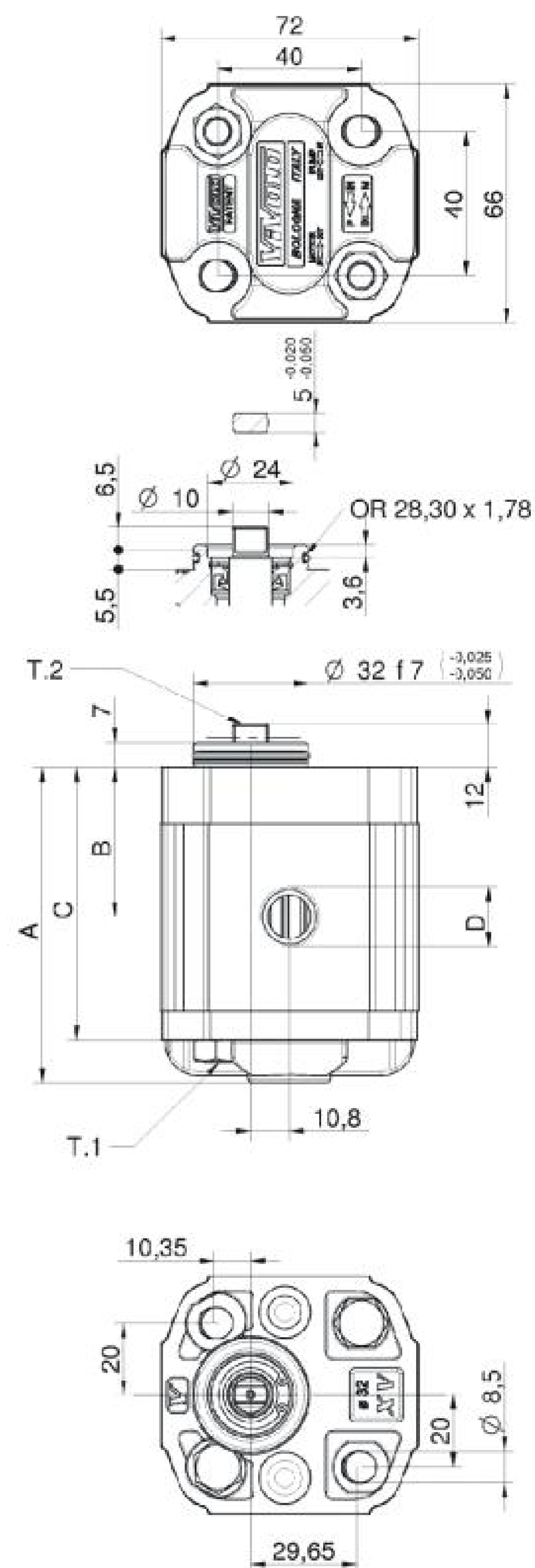


Reference XP119

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

unidirectional pump - series XV

XV-1P

"HY" TYPE PUMP W/ BODY INLET AND OUTLET  
 ø32 BODY-SHAPED FLANGE - MILLED SHANK



X 1 P 25 52 D B B A

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

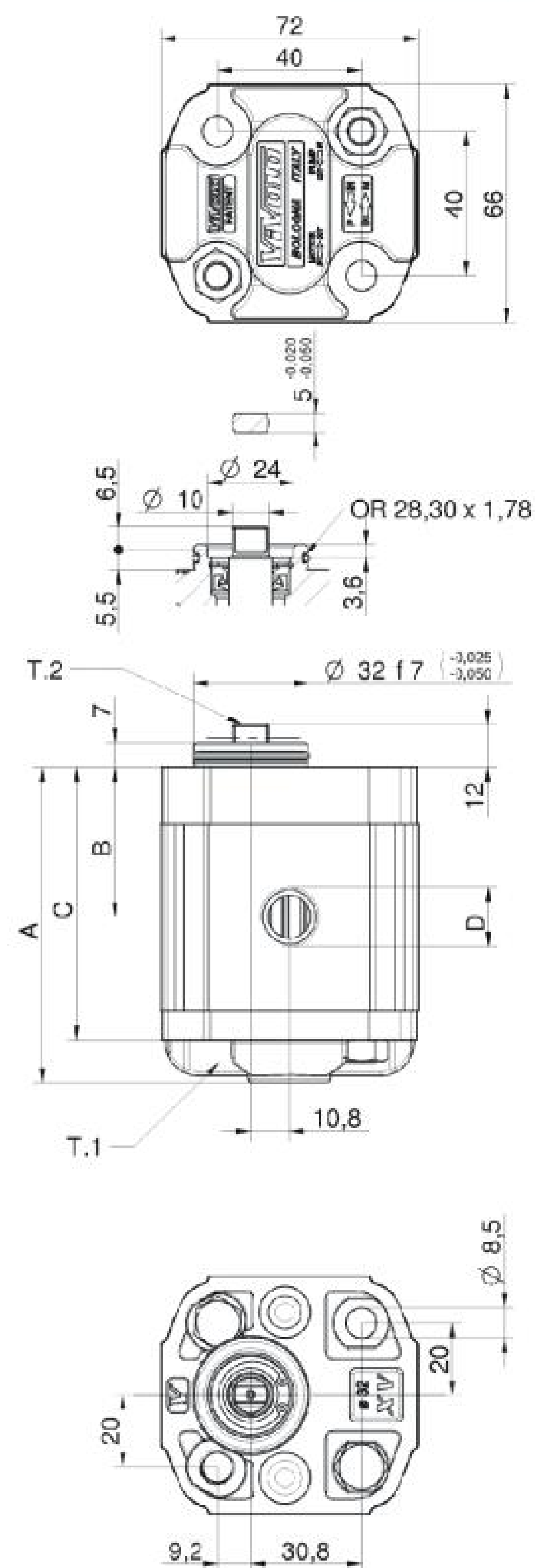


Reference XP140

Technical data table						
TYPE	Displacement cm3/rev	Max. Pressure		CODE		
		P1 bar	P3 bar	Left rotation		Right rotation
XV-1P/0.9	0,91	240	280	X 1 P 16 51 D B B A	X 1 P 16 52 D B B A	
XV-1P/1.2	1,17	250	290	X 1 P 17 51 D B B A	X 1 P 17 52 D B B A	
XV-1P/1.7	1,56	250	290	X 1 P 18 51 D B B A	X 1 P 18 52 D B B A	
XV-1P/2.2	2,08	250	290	X 1 P 20 51 D B B A	X 1 P 20 52 D B B A	
XV-1P/2.6	2,60	250	300	X 1 P 21 51 D B B A	X 1 P 21 52 D B B A	
XV-1P/3.2	3,12	250	300	X 1 P 23 51 D B B A	X 1 P 23 52 D B B A	
XV-1P/3.8	3,64	250	300	X 1 P 25 51 D B B A	X 1 P 25 52 D B B A	
XV-1P/4.3	4,16	250	300	X 1 P 27 51 D B B A	X 1 P 27 52 D B B A	
XV-1P/4.9	4,94	250	300	X 1 P 29 51 D B B A	X 1 P 29 52 D B B A	
XV-1P/5.9	5,85	250	300	X 1 P 31 51 D B B A	X 1 P 31 52 D B B A	
XV-1P/6.5	6,50	250	300	X 1 P 32 51 D B B A	X 1 P 32 52 D B B A	
XV-1P/7.8	7,54	220	260	X 1 P 34 51 D B B A	X 1 P 34 52 D B B A	
XV-1P/9.8	9,88	190	230	X 1 P 36 51 D B B A	X 1 P 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 kg	A	B	C	D	D
		mm	mm	mm	IN	OUT
XV-1P/0.9	0,950	77,1	36,3	65,1	3/8" BSPP	3/8" BSPP
XV-1P/1.2	0,970	78,0	36,8	66,0	3/8" BSPP	3/8" BSPP
XV-1P/1.7	1,010	79,5	37,5	67,5	3/8" BSPP	3/8" BSPP
XV-1P/2.2	1,030	81,5	38,5	69,5	3/8" BSPP	3/8" BSPP
XV-1P/2.6	1,060	83,5	39,5	71,5	3/8" BSPP	3/8" BSPP
XV-1P/3.2	1,090	85,5	40,5	73,5	3/8" BSPP	3/8" BSPP
XV-1P/3.8	1,120	87,5	41,5	75,5	3/8" BSPP	3/8" BSPP
XV-1P/4.3	1,170	89,5	42,5	77,5	3/8" BSPP	3/8" BSPP
XV-1P/4.9	1,200	92,5	44,0	80,5	3/8" BSPP	3/8" BSPP
XV-1P/5.9	1,260	96,0	45,8	84,0	3/8" BSPP	3/8" BSPP
XV-1P/6.5	1,300	97,5	47,0	85,5	3/8" BSPP	3/8" BSPP
XV-1P/7.8	1,360	102,5	49,0	90,5	3/8" BSPP	3/8" BSPP
XV-1P/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).

unidirectional pump - series XV

XV-1P

STANDARD GERMAN "BH" TYPE PUMP W/ BODY INLET AND OUTLET  
 Ø32 BODY-SHAPED FLANGE - MILLED SHANK



X 1 P 25 32 C B B A

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

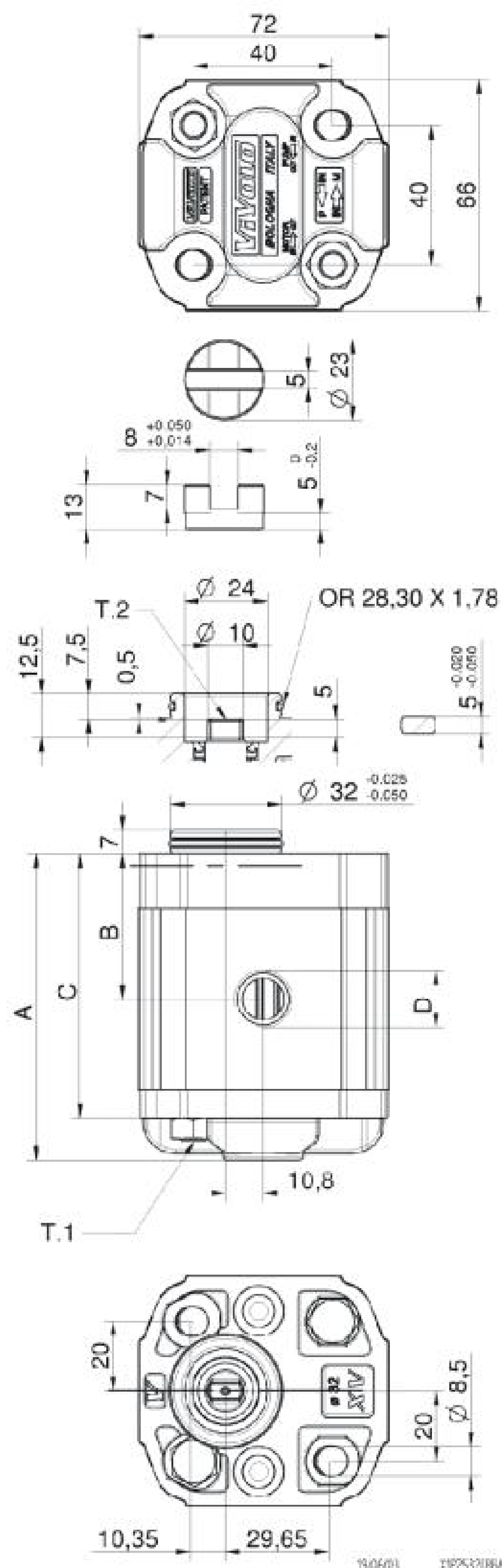


Reference XP161

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

unidirectional pump - series XV

XV-1P

"SAE AA" TYPE PUMP W/ BODY INLET AND OUTLET  
 Ø50.8 FLANGE - PARALLEL SHAFT



X 1 P 25 62 B B B A

Series	X	series XV
Group	1	group 1
Category	P	unidirectional pump
Displacement	25	3.8
Flange	62	Ø50.8 SAE AA right rotation
Shaft	B	C1002 - Parallel ø12.7 - key thk. 3.2 (SAE AA)
Body	IN	B inlet - 3/8" GAS
	OUT	B outlet - 3/8" GAS
Cover	A	standard

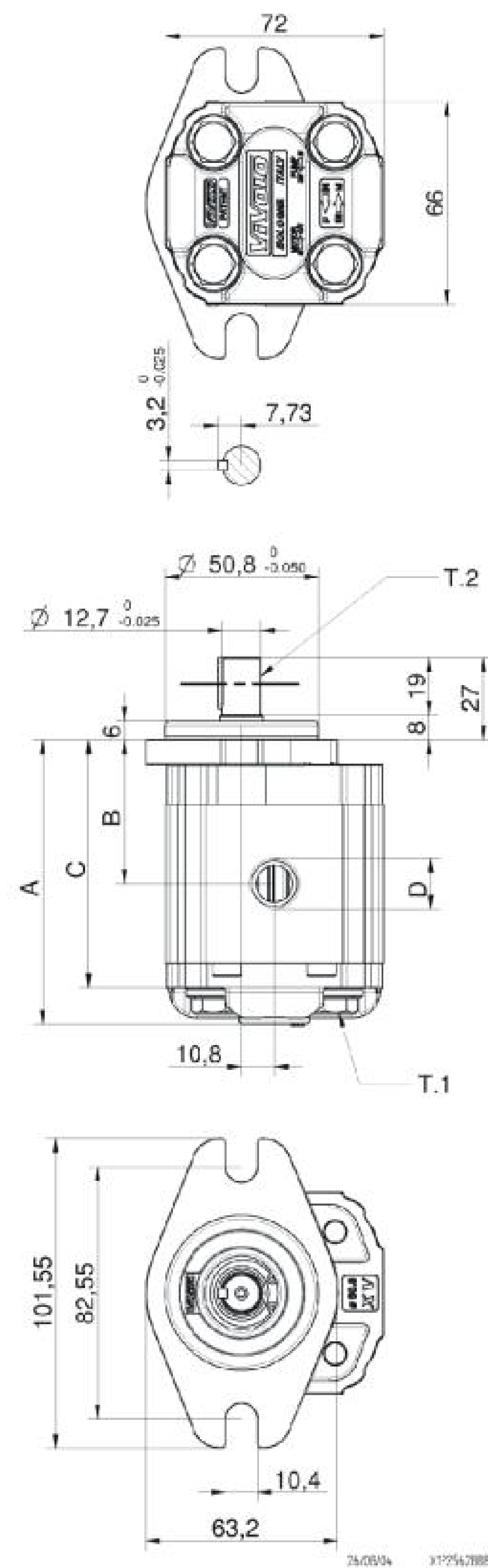


Reference XP168

Technical data table						
TYPE	Displacement cm3/rev	Max. Pressure		CODE		
		P1 bar	P3 bar	Left rotation		Right rotation
XV-1P/0.9	0,91	240	280	X 1 P 16 61 B B B A	X 1 P 16 62 B B B A	
XV-1P/1.2	1,17	250	290	X 1 P 17 61 B B B A	X 1 P 17 62 B B B A	
XV-1P/1.7	1,56	250	290	X 1 P 18 61 B B B A	X 1 P 18 62 B B B A	
XV-1P/2.2	2,08	250	290	X 1 P 20 61 B B B A	X 1 P 20 62 B B B A	
XV-1P/2.6	2,60	250	300	X 1 P 21 61 B B B A	X 1 P 21 62 B B B A	
XV-1P/3.2	3,12	250	300	X 1 P 23 61 B B B A	X 1 P 23 62 B B B A	
XV-1P/3.8	3,64	250	300	X 1 P 25 61 B B B A	X 1 P 25 62 B B B A	
XV-1P/4.3	4,16	250	300	X 1 P 27 61 B B B A	X 1 P 27 62 B B B A	
XV-1P/4.9	4,94	250	300	X 1 P 29 61 B B B A	X 1 P 29 62 B B B A	
XV-1P/5.9	5,85	250	300	X 1 P 31 61 B B B A	X 1 P 31 62 B B B A	
XV-1P/6.5	6,50	250	300	X 1 P 32 61 B B B A	X 1 P 32 62 B B B A	
XV-1P/7.8	7,54	220	260	X 1 P 34 61 B B B A	X 1 P 34 62 B B B A	
XV-1P/9.8	9,88	190	230	X 1 P 36 61 B B B A	X 1 P 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 kg	A	B	C	D	D
		mm	mm	mm	IN	OUT
XV-1P/0.9	1,000	82,6	41,8	70,6	3/8" BSPP	3/8" BSPP
XV-1P/1.2	1,020	83,5	42,3	71,5	3/8" BSPP	3/8" BSPP
XV-1P/1.7	1,060	85,0	43,0	73,0	3/8" BSPP	3/8" BSPP
XV-1P/2.2	1,080	87,0	44,0	75,0	3/8" BSPP	3/8" BSPP
XV-1P/2.6	1,110	89,0	45,0	77,0	3/8" BSPP	3/8" BSPP
XV-1P/3.2	1,140	91,0	46,0	79,0	3/8" BSPP	3/8" BSPP
XV-1P/3.8	1,170	93,0	47,0	81,0	3/8" BSPP	3/8" BSPP
XV-1P/4.3	1,220	95,0	48,0	83,0	3/8" BSPP	3/8" BSPP
XV-1P/4.9	1,250	98,0	49,5	86,0	3/8" BSPP	3/8" BSPP
XV-1P/5.9	1,310	101,5	51,3	89,5	3/8" BSPP	3/8" BSPP
XV-1P/6.5	1,350	105,0	52,5	93,0	3/8" BSPP	3/8" BSPP
XV-1P/7.8	1,410	108,0	54,5	96,0	3/8" BSPP	3/8" BSPP
XV-1P/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).

unidirectional pump - series XV

XV-2P

STANDARD EUROPEAN PUMP  
 ø36.5 FLANGE - TAPER SHAFT



X 2 P 51 02 E P O A

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

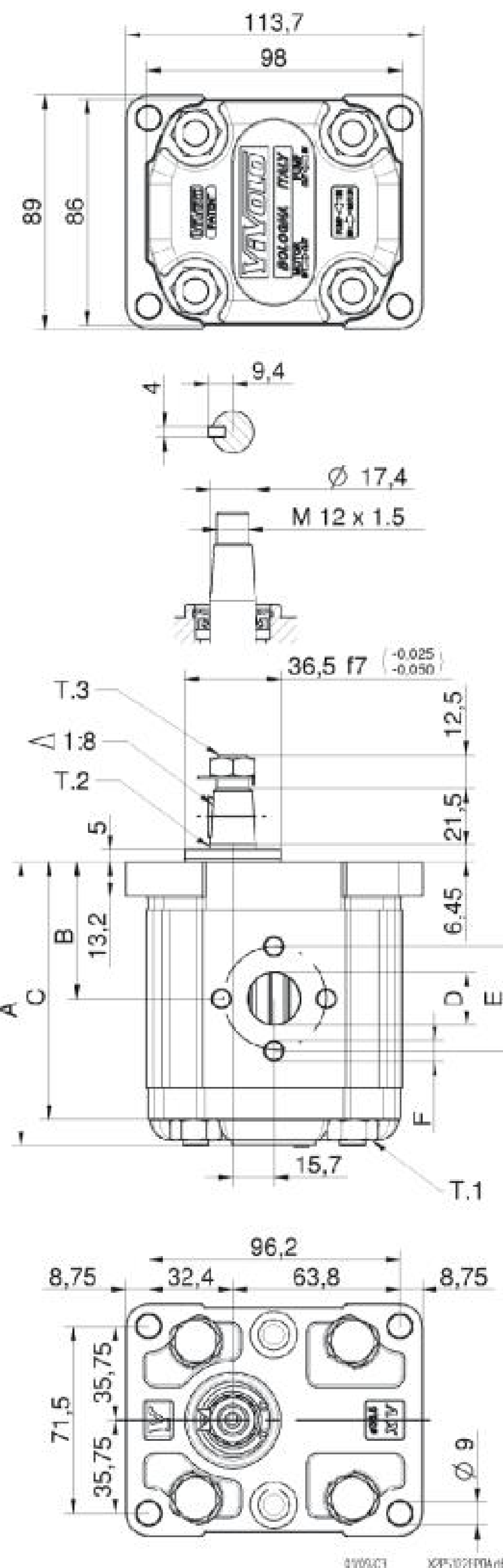


Reference XP201

Technical data table						
TYPE	Displacement cm3/rev	Max. Pressure		CODE		
		P1 bar	P3 bar	Left rotation		Right rotation
XV-2P/04	4,20	260	300	X 2 P 41 01 E O O A	X 2 P 41 02 E O O A	
XV-2P/06	6,00	260	300	X 2 P 43 01 E O O A	X 2 P 43 02 E O O A	
XV-2P/09	8,40	260	300	X 2 P 45 01 E O O A	X 2 P 45 02 E O O A	
XV-2P/11	10,80	260	300	X 2 P 47 01 E O O A	X 2 P 47 02 E O O A	
XV-2P/14	14,40	250	290	X 2 P 49 01 E P O A	X 2 P 49 02 E P O A	
XV-2P/17	16,80	230	270	X 2 P 51 01 E P O A	X 2 P 51 02 E P O A	
XV-2P/19	19,20	210	250	X 2 P 53 01 E P O A	X 2 P 53 02 E P O A	
XV-2P/22	22,80	200	240	X 2 P 55 01 E P O A	X 2 P 55 02 E P O A	
XV-2P/26	26,20	170	210	X 2 P 57 01 E Q P A	X 2 P 57 02 E Q P A	
XV-2P/30	30,00	160	200	X 2 P 59 01 E Q P A	X 2 P 59 02 E Q P A	
XV-2P/34	34,20	150	190	X 2 P 61 01 E Q P A	X 2 P 61 02 E Q P A	
XV-2P/40	39,60	140	180	X 2 P 63 01 E Q P A	X 2 P 63 02 E Q P A	

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

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



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

unidirectional pump - series XV

XV-2P

STANDARD EUROPEAN PUMP  
 Ø36.5 FLANGE - TAPER SHAFT



X 2 P 51 02 E C B A

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

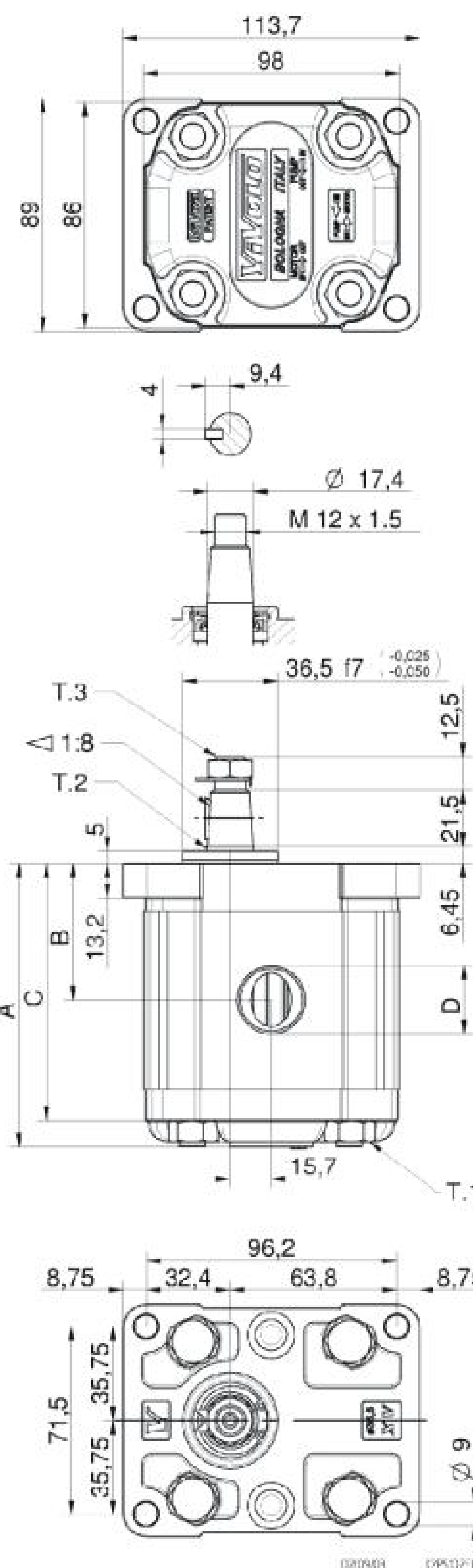


Reference XP207

Technical data table						
TYPE	Displacement cm3/rev	Max. Pressure		CODE		
		P1 bar	P3 bar	Left rotation		Right rotation
XV-2P/04	4,20	260	300	X 2 P 41 01	E B B A	X 2 P 41 02 E B B A
XV-2P/06	6,00	260	300	X 2 P 43 01	E B B A	X 2 P 43 02 E B B A
XV-2P/09	8,40	260	300	X 2 P 45 01	E B B A	X 2 P 45 02 E B B A
XV-2P/11	10,80	260	300	X 2 P 47 01	E B B A	X 2 P 47 02 E B B A
XV-2P/14	14,40	250	290	X 2 P 49 01	E C B A	X 2 P 49 02 E C B A
XV-2P/17	16,80	230	270	X 2 P 51 01	E C B A	X 2 P 51 02 E C B A
XV-2P/19	19,20	210	250	X 2 P 53 01	E C B A	X 2 P 53 02 E C B A
XV-2P/22	22,80	200	240	X 2 P 55 01	E C B A	X 2 P 55 02 E C B A
XV-2P/26	26,20	170	210	X 2 P 57 01	E D C A	X 2 P 57 02 E D C A
XV-2P/30	30,00	160	200	X 2 P 59 01	E D C A	X 2 P 59 02 E D C A
XV-2P/34	34,20	150	190	X 2 P 61 01	E D C A	X 2 P 61 02 E D C A
XV-2P/40	39,60	140	180	X 2 P 63 01	E D C A	X 2 P 63 02 E D C A

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

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



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

unidirectional pump - series XV

XV-2P

"BH" TYPE PUMP

ø50 BODY-SHAPED FLANGE - TAPER SHAFT



X 2 P 51 12 F S R A

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



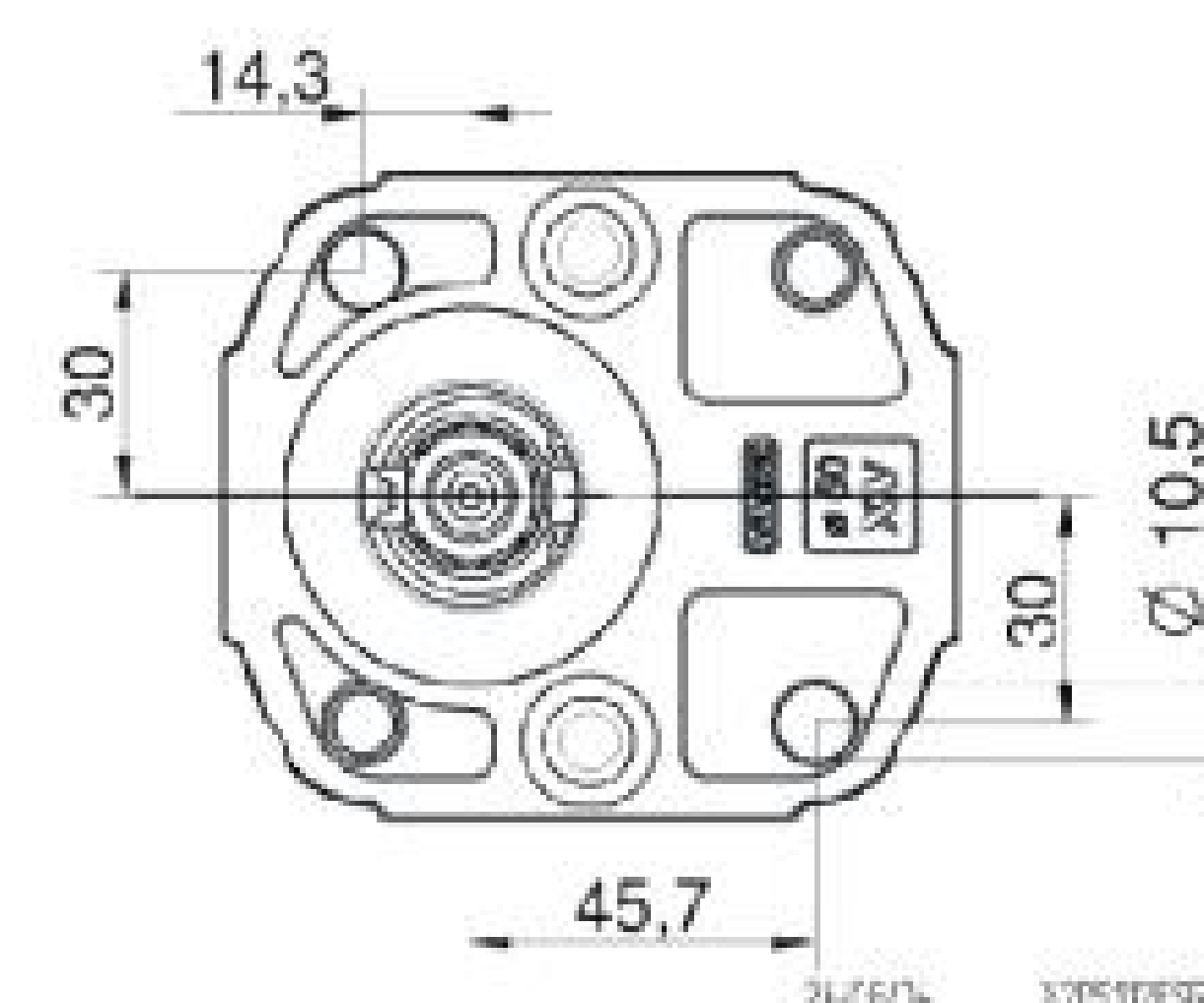
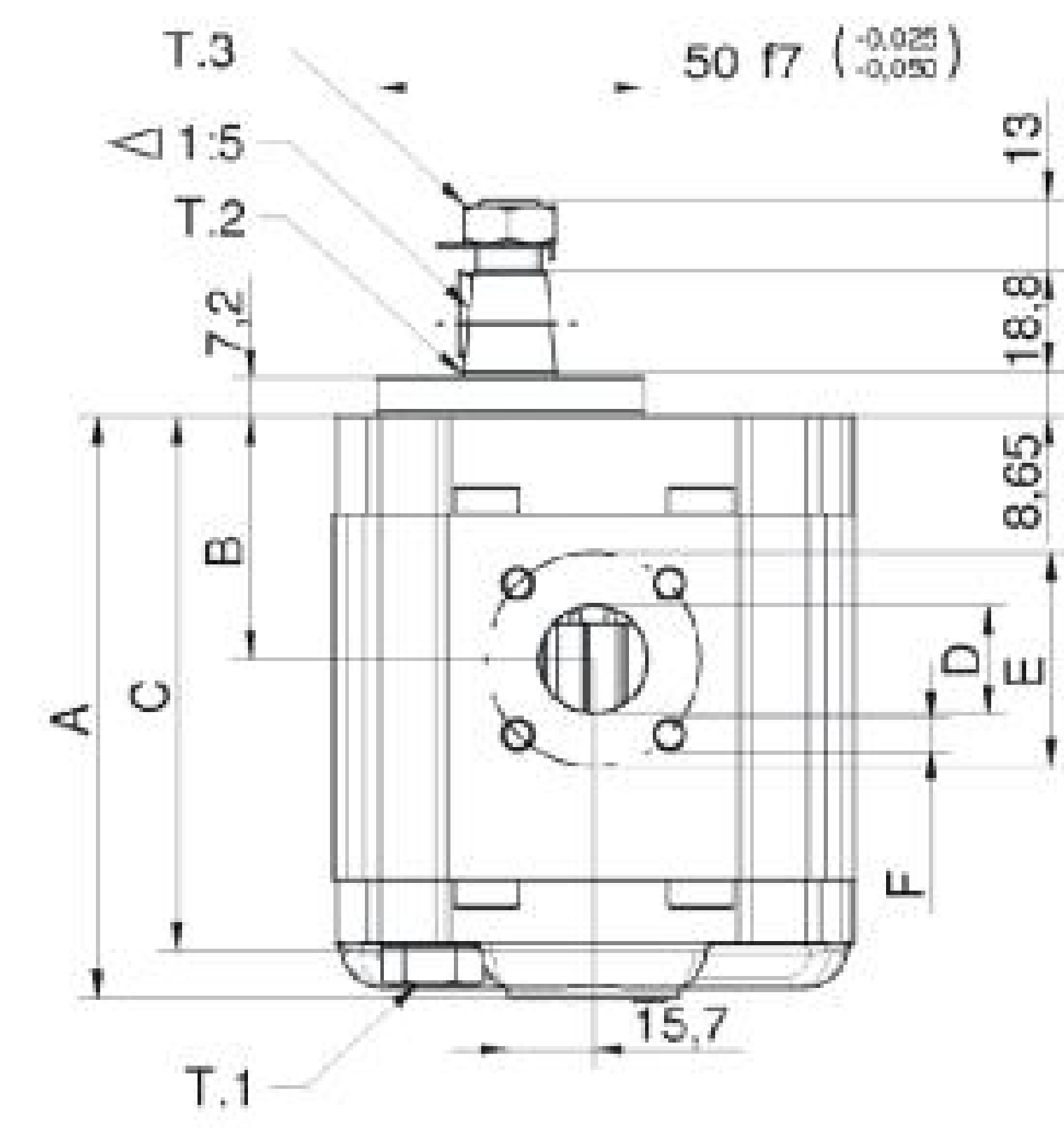
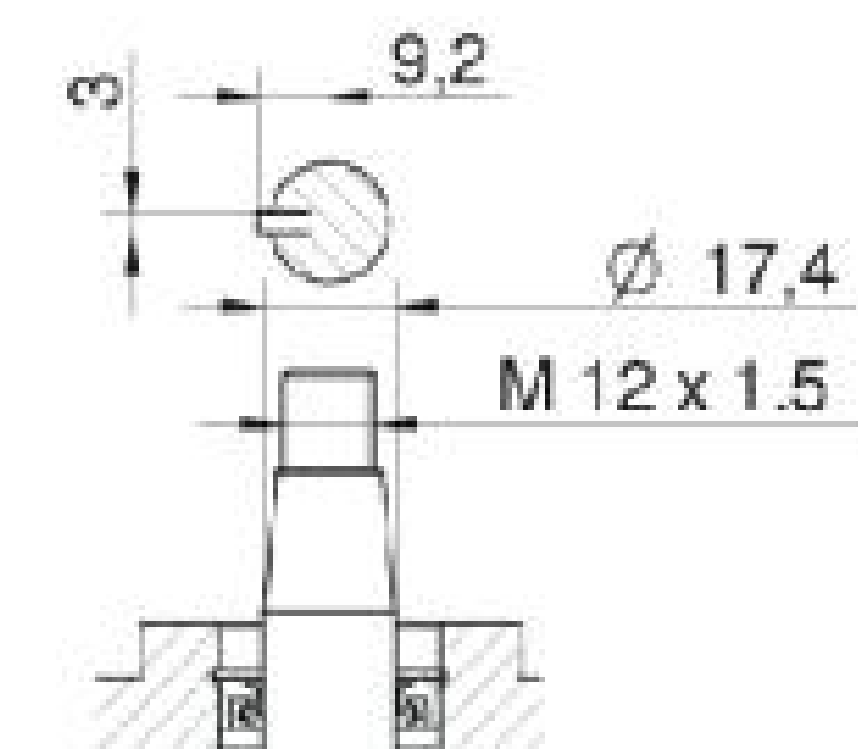
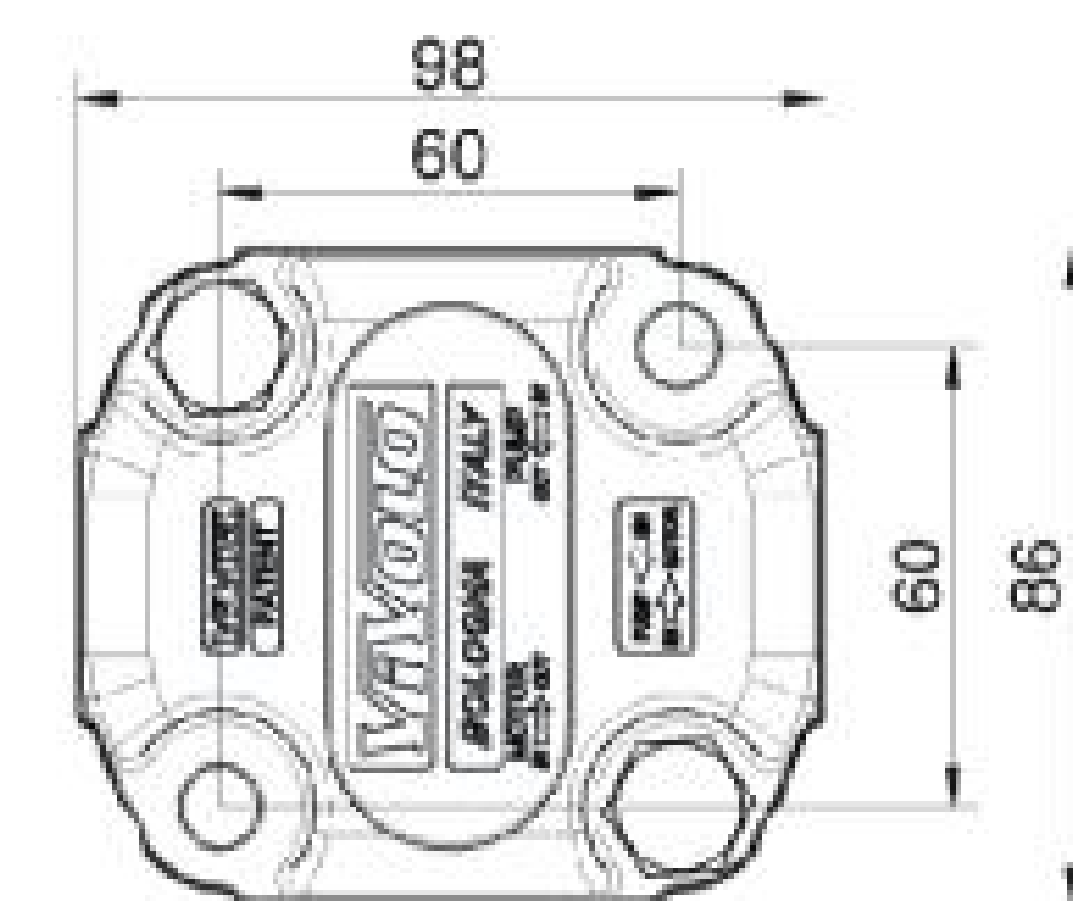
Reference XP210

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

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

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

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



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

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

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

unidirectional pump - series XV

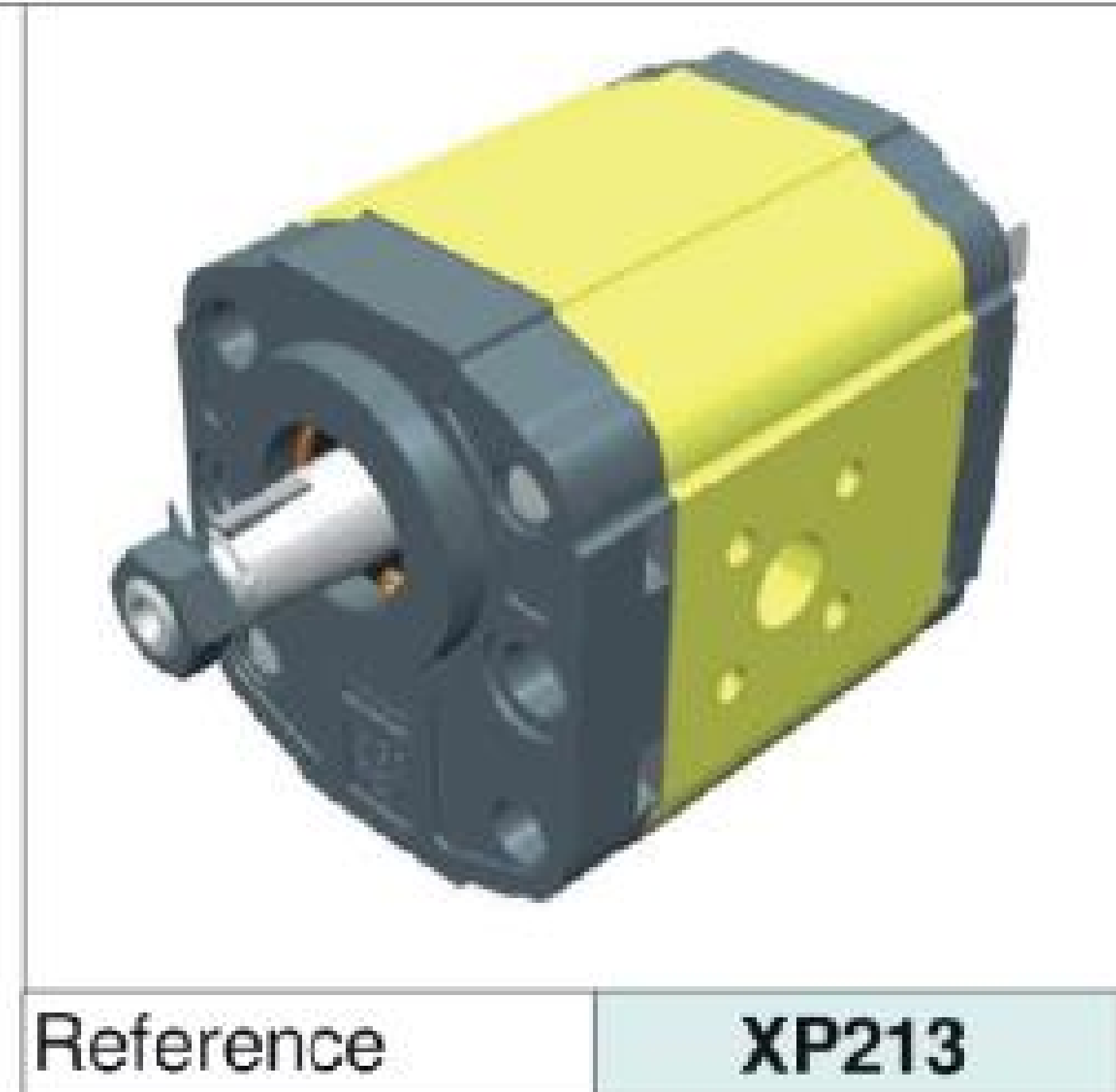
**XV-2P**

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



**X 2 P 51 22 F S R A**

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

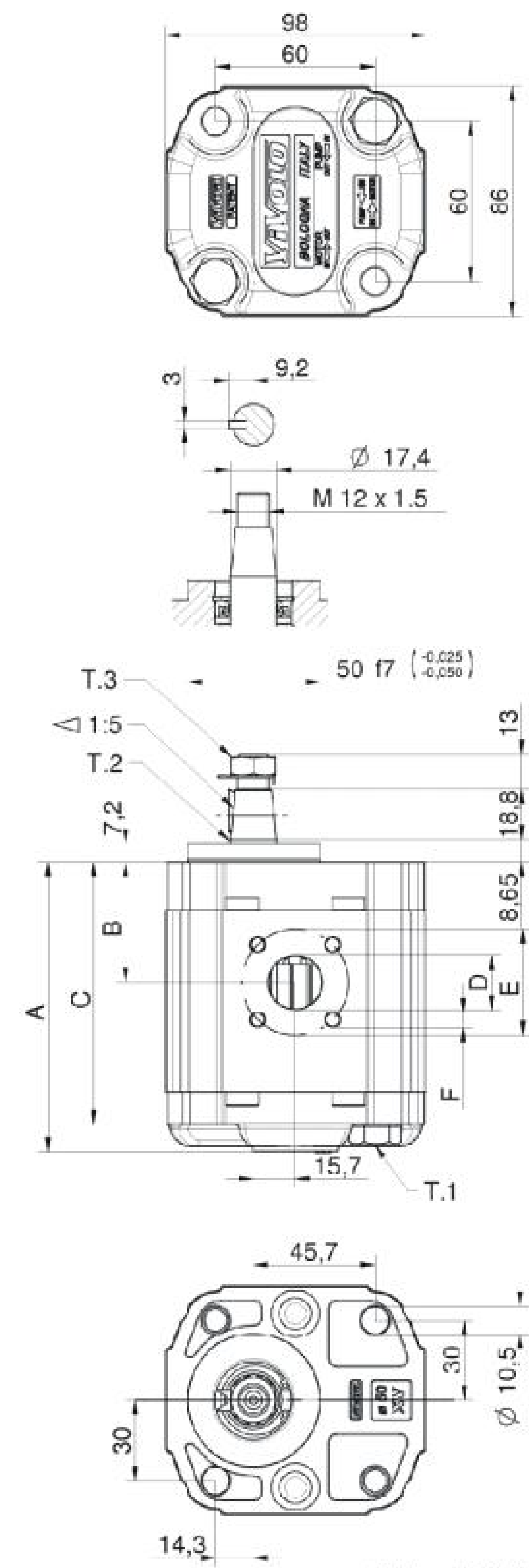


Reference **XP213**

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

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

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



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



unidirectional pump - series XV

XV-2P

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



X 2 P 51 32 C S R A

Series	X	series XV
Group	2	group 2
Category	P	unidirectional pump
Displacement	51	17
Flange	32	Ø52 BH GERMAN STANDARDIZED right rotation (with OR)
Shaft	C	CF001 - Milled shank ø15 - thk.8 ("BH" Standard German)
Body	IN	S inlet - Ø40 a 45° Ø20 M6
	OUT	R outlet - Ø35 a 45° Ø15 M6
Cover	A	standard

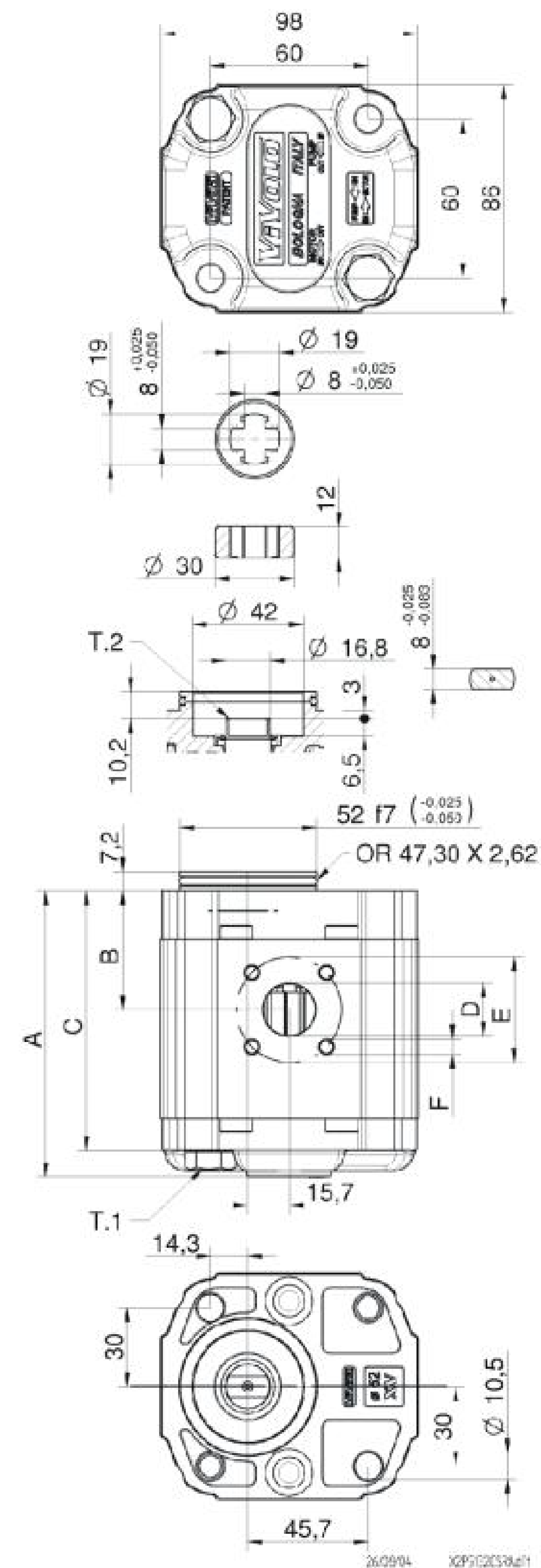


Reference XP216

Technical data table																					
TYPE	Displacement cm3/rev	Max. Pressure		CODE																	
		P1 bar	P3 bar	Left rotation			Right rotation														
XV-2P/04	4,20	260	300	X	2	P	41	31	C	S	R	A	X	2	P	41	32	C	S	R	A
XV-2P/06	6,00	260	300	X	2	P	43	31	C	S	R	A	X	2	P	43	32	C	S	R	A
XV-2P/09	8,40	260	300	X	2	P	45	31	C	S	R	A	X	2	P	45	32	C	S	R	A
XV-2P/11	10,80	260	300	X	2	P	47	31	C	S	R	A	X	2	P	47	32	C	S	R	A
XV-2P/14	14,40	250	290	X	2	P	49	31	C	S	R	A	X	2	P	49	32	C	S	R	A
XV-2P/17	16,80	230	270	X	2	P	51	31	C	S	R	A	X	2	P	51	32	C	S	R	A
XV-2P/19	19,20	210	250	X	2	P	53	31	C	S	R	A	X	2	P	53	32	C	S	R	A
XV-2P/22	22,80	200	240	X	2	P	55	31	C	S	R	A	X	2	P	55	32	C	S	R	A
XV-2P/26	26,20	170	210	X	2	P	57	31	C	S	R	A	X	2	P	57	32	C	S	R	A
XV-2P/30	30,00	160	200	X	2	P	59	31	C	S	S	A	X	2	P	59	32	C	S	S	A
XV-2P/34	34,20	150	190	X	2	P	61	31	C	S	S	A	X	2	P	61	32	C	S	S	A
XV-2P/40	39,60	140	180	X	2	P	63	31	C	S	S	A	X	2	P	63	32	C	S	S	A

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

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



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

unidirectional pump - series XV

XV-2P

STANDARD GERMAN PUMP  
ø80 FLANGE - TAPER SHAFT



X 2 P 51 42 F S R A

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

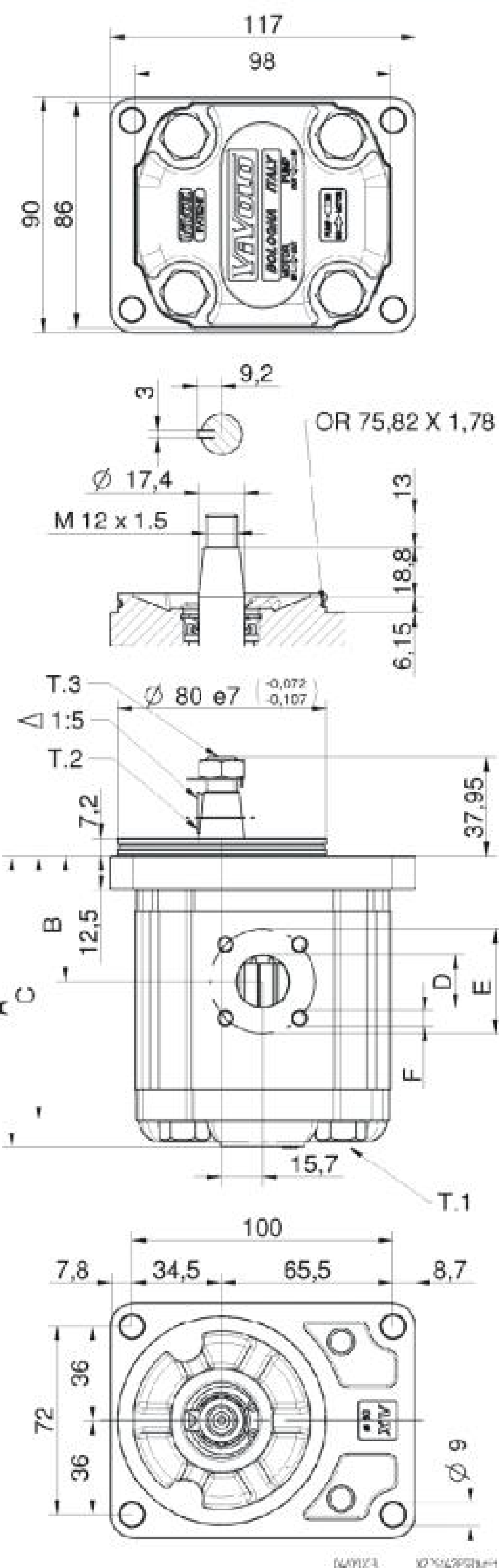


Reference XP217

Technical data table						
TYPE	Displacement cm3/rev	Max. Pressure		CODE		⌀
		P1 bar	P3 bar	Left rotation	Right rotation	
XV-2P/04	4,20	260	300	X 2 P 41 41 F S R A	X 2 P 41 42 F S R A	⌀
XV-2P/06	6,00	260	300	X 2 P 43 41 F S R A	X 2 P 43 42 F S R A	⌀
XV-2P/09	8,40	260	300	X 2 P 45 41 F S R A	X 2 P 45 42 F S R A	⌀
XV-2P/11	10,80	260	300	X 2 P 47 41 F S R A	X 2 P 47 42 F S R A	⌀
XV-2P/14	14,40	250	290	X 2 P 49 41 F S R A	X 2 P 49 42 F S R A	⌀
XV-2P/17	16,80	230	270	X 2 P 51 41 F S R A	X 2 P 51 42 F S R A	⌀
XV-2P/19	19,20	210	250	X 2 P 53 41 F S R A	X 2 P 53 42 F S R A	⌀
XV-2P/22	22,80	200	240	X 2 P 55 41 F S R A	X 2 P 55 42 F S R A	⌀
XV-2P/26	26,20	170	210	X 2 P 57 41 F S R A	X 2 P 57 42 F S R A	⌀
XV-2P/30	30,00	160	200	X 2 P 59 41 F S S A	X 2 P 59 42 F S S A	⌀
XV-2P/34	34,20	150	190	X 2 P 61 41 F S S A	X 2 P 61 42 F S S A	⌀
XV-2P/40	39,60	140	180	X 2 P 63 41 F S S A	X 2 P 63 42 F S S A	⌀

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

Dimensions table										
TYPE	Weight kg	A	B	C	D	E	F	D	E	F
		mm	mm	mm	IN			OUT		
XV-2P/04	2,330	89,7	41,1	79,7	ø20	40	M6x1	ø15	35	M6x1
XV-2P/06	2,430	92,7	41,1	82,7	ø20	40	M6x2	ø15	35	M6x1
XV-2P/09	2,530	96,7	43,1	86,7	ø20	40	M6x3	ø15	35	M6x1
XV-2P/11	2,630	100,7	47,5	90,7	ø20	40	M6x4	ø15	35	M6x1
XV-2P/14	2,730	106,7	47,5	96,7	ø20	40	M6x5	ø15	35	M6x1
XV-2P/17	2,830	110,7	47,5	100,7	ø20	40	M6x6	ø15	35	M6x1
XV-2P/19	2,930	114,7	47,5	104,7	ø20	40	M6x7	ø15	35	M6x1
XV-2P/22	3,180	120,7	55,0	110,7	ø20	40	M6x8	ø15	35	M6x1
XV-2P/26	3,280	124,7	55,0	114,7	ø20	40	M6x9	ø15	35	M6x1
XV-2P/30	3,530	132,7	63,2	122,7	ø20	40	M6x10	ø20	40	M6x1
XV-2P/34	3,730	139,7	63,2	129,7	ø20	40	M6x11	ø20	40	M6x1
XV-2P/40	3,930	148,7	63,2	138,7	ø20	40	M6x12	ø20	40	M6x1



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

unidirectional pump - series XV

**XV-2P**

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



**X 2 P 51 52 I S R A**

Series	X	series XV
Group	2	group 2
Category	P	unidirectional pump
Displacement	51	17
Flange	52	Ø82.5 SAE A right rotation (with OR)
Shaft	I	SCF04 - Splined ø15.456 z=9, H=22.5 - SAE J498 9T 16/32DP
Body	IN	S inlet - Ø40 a 45° Ø20 M6
	OUT	R outlet - Ø35 a 45° Ø15 M6
Cover	A	standard

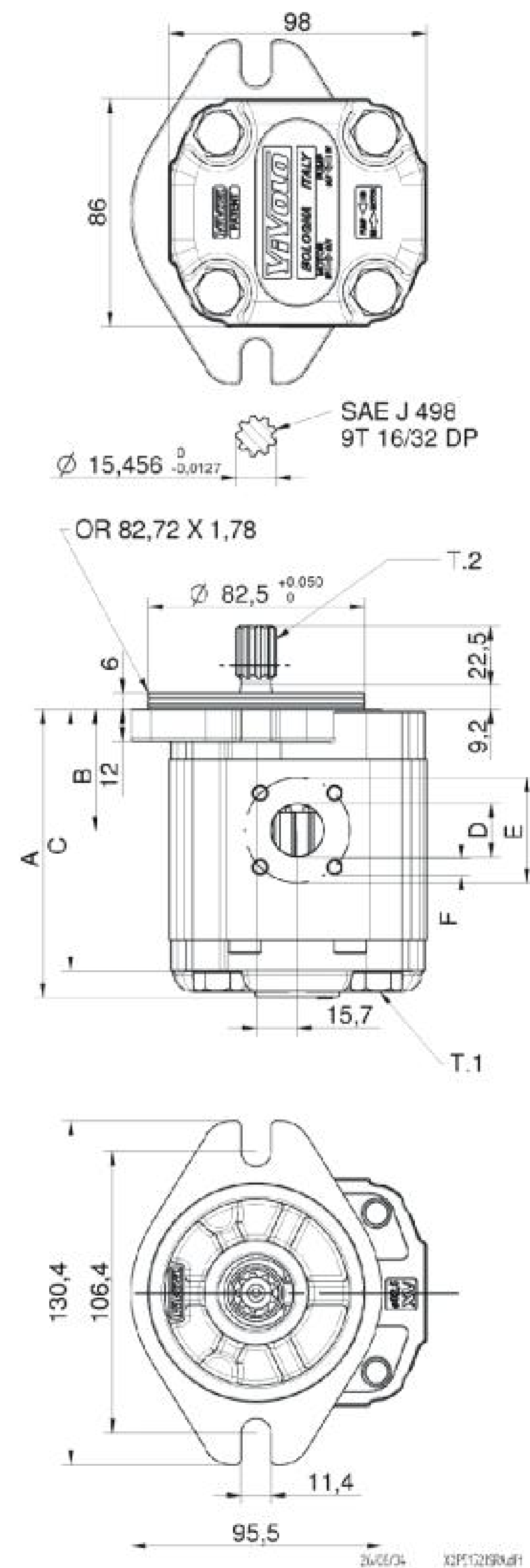


Reference **XP219**

Technical data table																					
TYPE	Displacement cm3/rev	Max. Pressure		CODE																	
		P1 bar	P3 bar	Left rotation			Right rotation														
XV-2P/04	4,20	260	300	X	2	P	41	51	I	S	R	A	X	2	P	41	52	I	S	R	A
XV-2P/06	6,00	260	300	X	2	P	43	51	I	S	R	A	X	2	P	43	52	I	S	R	A
XV-2P/09	8,40	260	300	X	2	P	45	51	I	S	R	A	X	2	P	45	52	I	S	R	A
XV-2P/11	10,80	260	300	X	2	P	47	51	I	S	R	A	X	2	P	47	52	I	S	R	A
XV-2P/14	14,40	250	290	X	2	P	49	51	I	S	R	A	X	2	P	49	52	I	S	R	A
XV-2P/17	16,80	230	270	X	2	P	51	51	I	S	R	A	X	2	P	51	52	I	S	R	A
XV-2P/19	19,20	210	250	X	2	P	53	51	I	S	R	A	X	2	P	53	52	I	S	R	A
XV-2P/22	22,80	200	240	X	2	P	55	51	I	S	R	A	X	2	P	55	52	I	S	R	A
XV-2P/26	26,20	170	210	X	2	P	57	51	I	S	R	A	X	2	P	57	52	I	S	R	A
XV-2P/30	30,00	160	200	X	2	P	59	51	I	S	S	A	X	2	P	59	52	I	S	S	A
XV-2P/34	34,20	150	190	X	2	P	61	51	I	S	S	A	X	2	P	61	52	I	S	S	A
XV-2P/40	39,60	140	180	X	2	P	63	51	I	S	S	A	X	2	P	63	52	I	S	S	A

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

Dimensions table										
TYPE	Weight kg	A	B	C	D	E	F	D	E	F
		mm	mm	mm	IN			OUT		
XV-2P/04	2,280	88,0	39,4	78,0	ø20	40	M6x1	ø15	35	M6x1
XV-2P/06	2,380	91,0	39,4	81,0	ø20	40	M6x2	ø15	35	M6x1
XV-2P/09	2,480	95,0	41,4	85,0	ø20	40	M6x3	ø15	35	M6x1
XV-2P/11	2,580	99,0	45,8	89,0	ø20	40	M6x4	ø15	35	M6x1
XV-2P/14	2,780	105,0	45,8	95,0	ø20	40	M6x5	ø15	35	M6x1
XV-2P/17	2,880	109,0	45,8	99,0	ø20	40	M6x6	ø15	35	M6x1
XV-2P/19	2,980	113,0	45,8	103,0	ø20	40	M6x7	ø15	35	M6x1
XV-2P/22	3,130	119,0	53,3	109,0	ø20	40	M6x8	ø15	35	M6x1
XV-2P/26	3,230	123,0	53,3	113,0	ø20	40	M6x9	ø15	35	M6x1
XV-2P/30	3,480	131,0	61,5	121,0	ø20	40	M6x10	ø20	40	M6x1
XV-2P/34	3,680	138,0	61,5	128,0	ø20	40	M6x11	ø20	40	M6x1
XV-2P/40	3,880	147,0	61,5	137,0	ø20	40	M6x12	ø20	40	M6x1



T.1 = 54-58.9 [Nm] - screw tightening torque M10  
T.2 = 67.1 [Nm] - admissible shaft torque (N.B. When choosing a shaft, always check the admissible torque).

unidirectional pump - series XV

XV-3P

STANDARD EUROPEAN PUMP  
 ø50.8 FLANGE - TAPER SHAFT



**X 3 P 78 02 A B B A**

Series	X	series XV
Group	3	group 3
Category	P	unidirectional pump
Displacement	78	38
Flange	02	Ø50.8 right rotation
Shaft	A	CO001 - Tapered 1:8 - ø22 - key thk.4
Body	IN	inlet - Ø51 Ø27 M10
	OUT	outlet - Ø51 Ø27 M10
Cover	A	standard

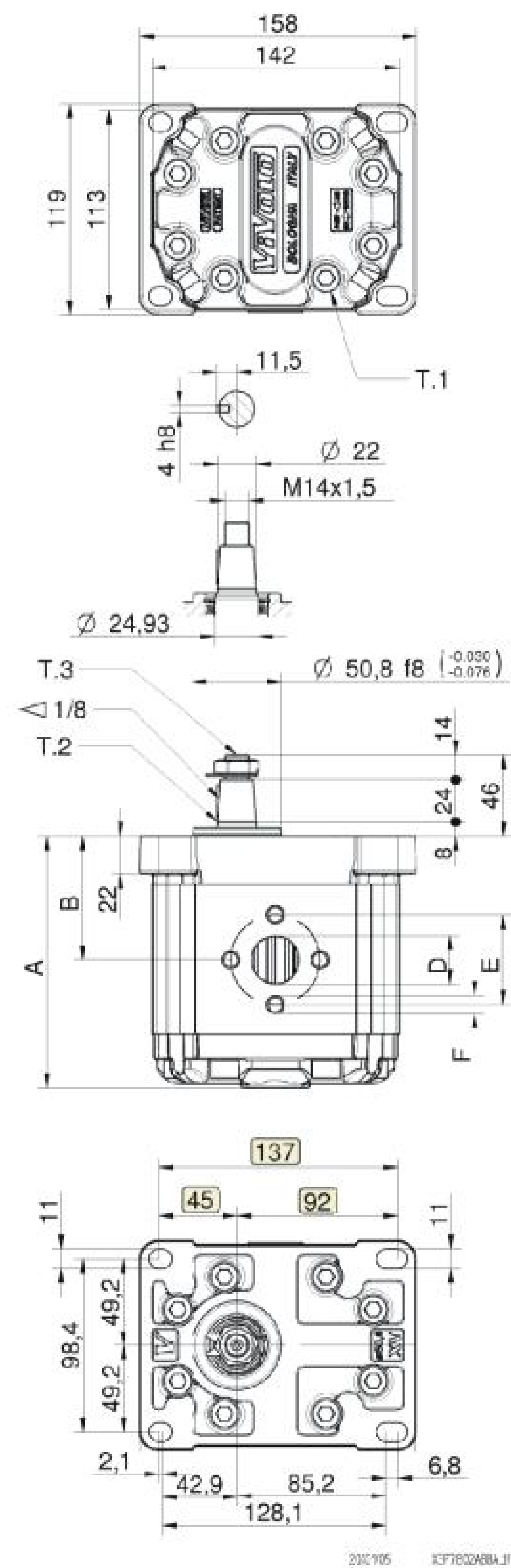


Reference **XP301**

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

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

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



T.1 = 60÷65 [Nm] - screw tightening torque M10  
 T.2 = 482 [Nm] - admissible shaft torque (N.B. When choosing a shaft, always check the admissible torque).  
 T.3 = 75 [Nm] - torque wrench setting 22

unidirectional pump - series XV

XV-3P

STANDARD EUROPEAN PUMP  
 ø50.8 FLANGE - TAPER SHAFT



X 3 P 78 02 A E E A

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

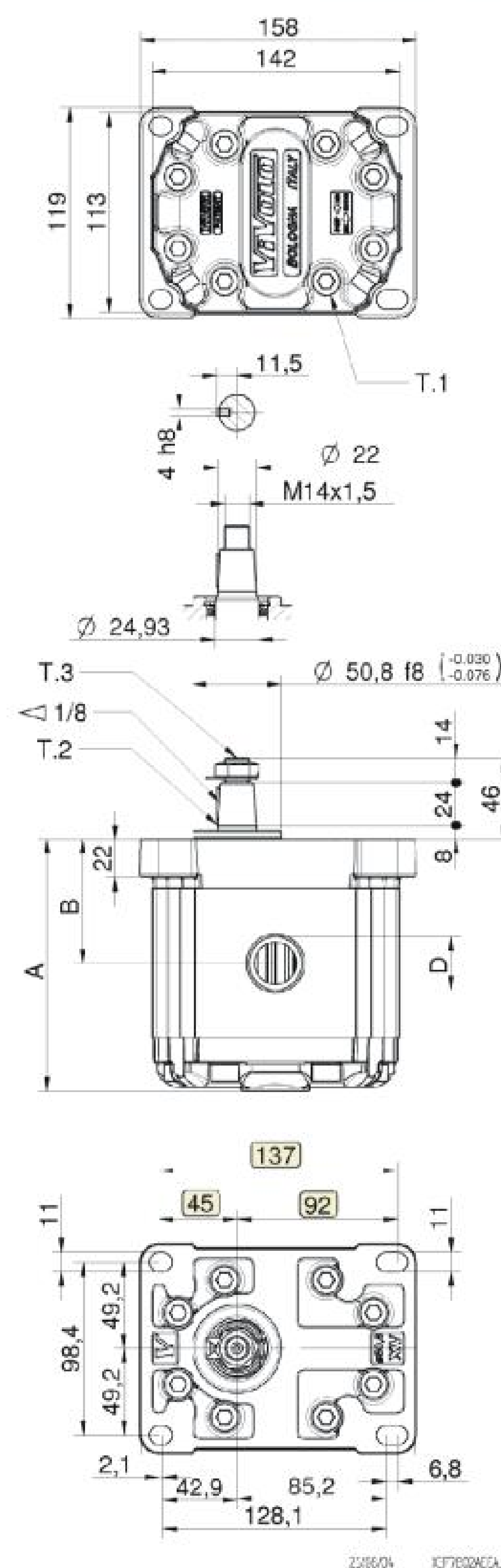


Reference XP302

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

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

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



T.1 = 60-65 [Nm] - screw tightening torque M10  
 T.2 = 482 [Nm] - admissible shaft torque (N.B. When choosing a shaft, always check the admissible torque).  
 T.3 = 75 [Nm] - torque wrench setting 22

unidirectional pump - series XV

XV-3P

SAE B TYPE PUMP  
 ø101.6 FLANGE - SPLINED SHAFT



**X 3 P 78 32 I E E A**

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

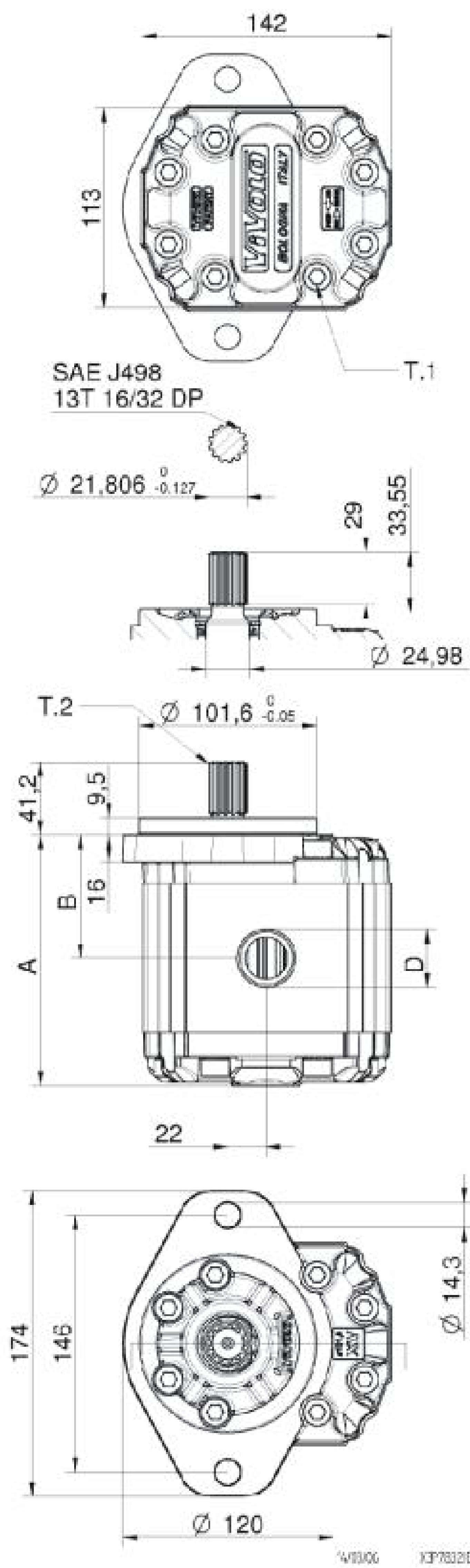


Reference **XP331**

Technical data table						
TYPE	Displacement cm3/rev	Max. Pressure		CODE		
		P1 bar	P3 bar	Left rotation		Right rotation
XV-3P/15	14,89	300	320	X 3 P 66 31 I D D A	X 3 P 66 32 I D D A	
XV-3P/18	17,37	300	320	X 3 P 68 31 I D D A	X 3 P 68 32 I D D A	
XV-3P/21	21,10	280	300	X 3 P 70 31 I D D A	X 3 P 70 32 I D D A	
XV-3P/27	26,97	250	270	X 3 P 72 31 I E E A	X 3 P 72 32 I E E A	
XV-3P/32	32,27	250	270	X 3 P 74 31 I E E A	X 3 P 74 32 I E E A	
XV-3P/38	38,47	250	270	X 3 P 78 31 I E E A	X 3 P 78 32 I E E A	
XV-3P/43	43,44	250	270	X 3 P 79 31 I E E A	X 3 P 79 32 I E E A	
XV-3P/47	47,16	230	250	X 3 P 80 31 I E E A	X 3 P 80 32 I E E A	
XV-3P/51	50,88	230	250	X 3 P 81 31 I E E A	X 3 P 81 32 I E E A	
XV-3P/54	54,60	230	250	X 3 P 82 31 I E E A	X 3 P 82 32 I E E A	
XV-3P/61	60,81	230	250	X 3 P 83 31 I F F A	X 3 P 83 32 I F F A	
XV-3P/64	64,53	210	230	X 3 P 85 31 I F F A	X 3 P 85 32 I F F A	
XV-3P/70	70,74	200	220	X 3 P 86 31 I F F A	X 3 P 86 32 I F F A	
XV-3P/74	74,46	180	200	X 3 P 87 31 I F F A	X 3 P 87 32 I F F A	
XV-3P/90	86,87	150	170	X 3 P 89 31 I F F A	X 3 P 89 32 I F F A	

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

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



T.1 = 60÷65 [Nm] - screw tightening torque M10  
 T.2 = 264 [Nm] - admissible shaft torque (N.B. When choosing a shaft, always check the admissible torque).

unidirectional pump - series XV

XV-3P

SAE B TYPE PUMP  
 ø101.6 FLANGE - SPLINED SHAFT



X 3 P 78 32 I B B A

Series	X	series XV
Group	3	group 3
Category	P	unidirectional pump
Displacement	78	38
Flange	32	Ø101.6 SAE B right rotation
Shaft	I	SCF04 - Splined ø21.81 z=13, H=33.55 SAE J498-13T -16/32DF (SAE B)
Body	IN	B inlet - Ø51 Ø27 M10
	OUT	B outlet - Ø51 Ø27 M10
Cover	A	standard

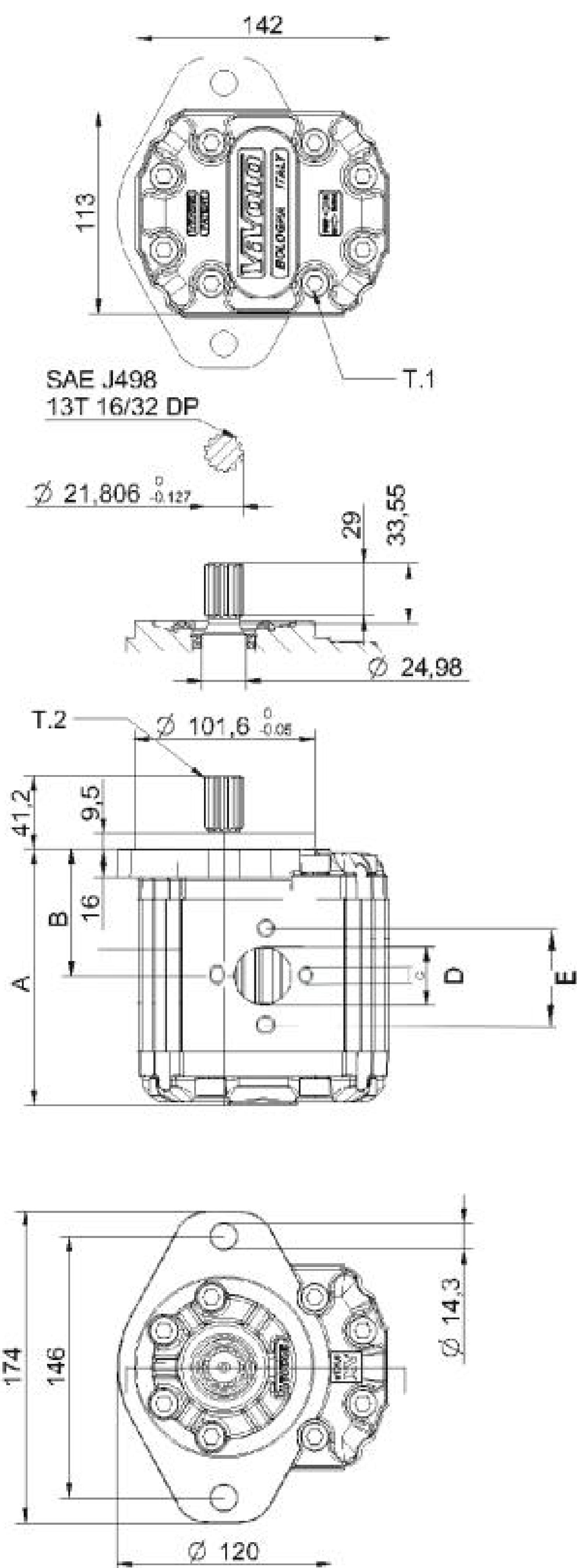


Reference **XP332**

Technical data table						
TYPE	Displacement cm3/rev	Max. Pressure		CODE		
		P1 bar	P3 bar	Left rotation		Right rotation
XV-3P/15	14,89	300	320	X 3 P 66 31 I A A A	X 3 P 66 32 I A A A	
XV-3P/18	17,37	300	320	X 3 P 68 31 I A A A	X 3 P 68 32 I A A A	
XV-3P/21	21,10	280	300	X 3 P 70 31 I A A A	X 3 P 70 32 I A A A	
XV-3P/27	26,97	250	270	X 3 P 72 31 I A A A	X 3 P 72 32 I A A A	
XV-3P/32	32,27	250	270	X 3 P 74 31 I B B A	X 3 P 74 32 I B B A	
XV-3P/38	38,47	250	270	X 3 P 78 31 I B B A	X 3 P 78 32 I B B A	
XV-3P/43	43,44	250	270	X 3 P 79 31 I B B A	X 3 P 79 32 I B B A	
XV-3P/47	47,16	230	250	X 3 P 80 31 I B B A	X 3 P 80 32 I B B A	
XV-3P/51	50,88	230	250	X 3 P 81 31 I B B A	X 3 P 81 32 I B B A	
XV-3P/54	54,60	230	250	X 3 P 82 31 I B B A	X 3 P 82 32 I B B A	
XV-3P/61	60,81	230	250	X 3 P 83 31 I C C A	X 3 P 83 32 I C C A	
XV-3P/64	64,53	210	230	X 3 P 85 31 I C C A	X 3 P 85 32 I C C A	
XV-3P/70	70,74	200	220	X 3 P 86 31 I C C A	X 3 P 86 32 I C C A	
XV-3P/74	74,46	180	200	X 3 P 87 31 I C C A	X 3 P 87 32 I C C A	
XV-3P/90	86,87	150	170	X 3 P 89 31 I C C A	X 3 P 89 32 I C C A	

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

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



T.1 = 60+65 [Nm] - screw tightening torque M10  
 T.2 = 264 [Nm] - admissible shaft torque (N.B. When choosing a shaft, always check the admissible torque).



UNIONS

90° STEEL ELBOWS											
Code	Type	A	B	C	D	E	F	G	OR	V	weight
									O ring	Screw	
8KRG001	RG 26/12-3/8"BSP	3/8"	26	5,5	12	18	9,5	27	ø14,00x1,78	M5x18	0,13
8KRG002	RG 26/12-1/2"BSP	1/2"	26	5,5	12	18	9,5	27	ø14,00x1,78	M5x18	0,12
8KRG003	RG 30/13,5 -3/8"BSP	3/8"	30	6,5	13,5	18	9,5	27	ø15,88x2,62	M6x20	0,17
8KRG004	RG 30/13,5 -1/2"BSP	1/2"	30	6,5	13,5	18	9,5	27	ø15,88x2,62	M6x20	0,16
8KRG005	RG 40/20-1/2"BSP	1/2"	40	8,5	20	21	10,5	38	ø23,81x2,62	M8x25	0,36
8KRG006	RG 40/20-3/4"BSP	3/4"	40	8,5	20	21	10,5	38	ø23,81x2,62	M8x25	0,32
8KRG007	RG 40/23-3/4"BSP	3/4"	40	8,5	23,5	21	10,5	38	ø25,12x1,78	M8x25	0,29
8KRG008	RG 51/27-1"BSP	1"	51	10,5	27	27	13,5	47	ø31,42x2,62	M10x30	0,7
8KRG009	RG 51/27-3/4" BSP	3/4"	51	10,5	27	27	13,5	47	ø31,42x2,62	M10x30	0,7
8KRG011	RG 56/34-3/4" BSP	3/4"	56	10,5	34	27	13,5	47	ø37,77x2,62	M10x30	0,72
8KRG012	RG 62/36-1"1/4 BSP	1"1/4	62	10,5	36	36	19	56	ø41,28x3,53	M10x30	0,94
8KRG015	RG 62/36-1"1/4 BSP M12	1"1/4	62	12,5	36	36	19	56	ø41,28x3,53	M12x35	0,94
8KRG013	RG 72,5/45-1"1/2 BSP	1"1/2	72,5	12,5	45	38	16	58	ø49,20x3,53	M12x35	1,23
8KRG014	RG 92/65-2" BSP	2"	92	12,5	65	50	21	75	ø69,85x3,53	M12x40	1,65

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

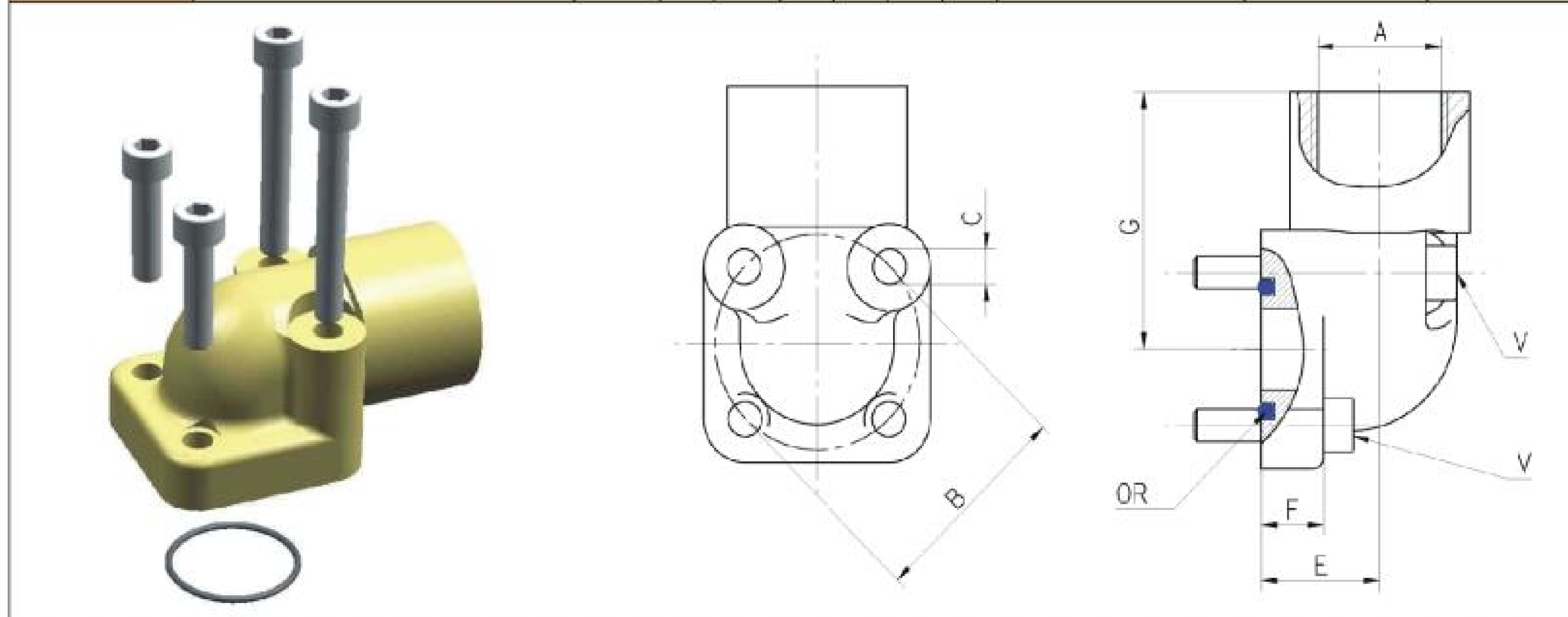




UNIONS

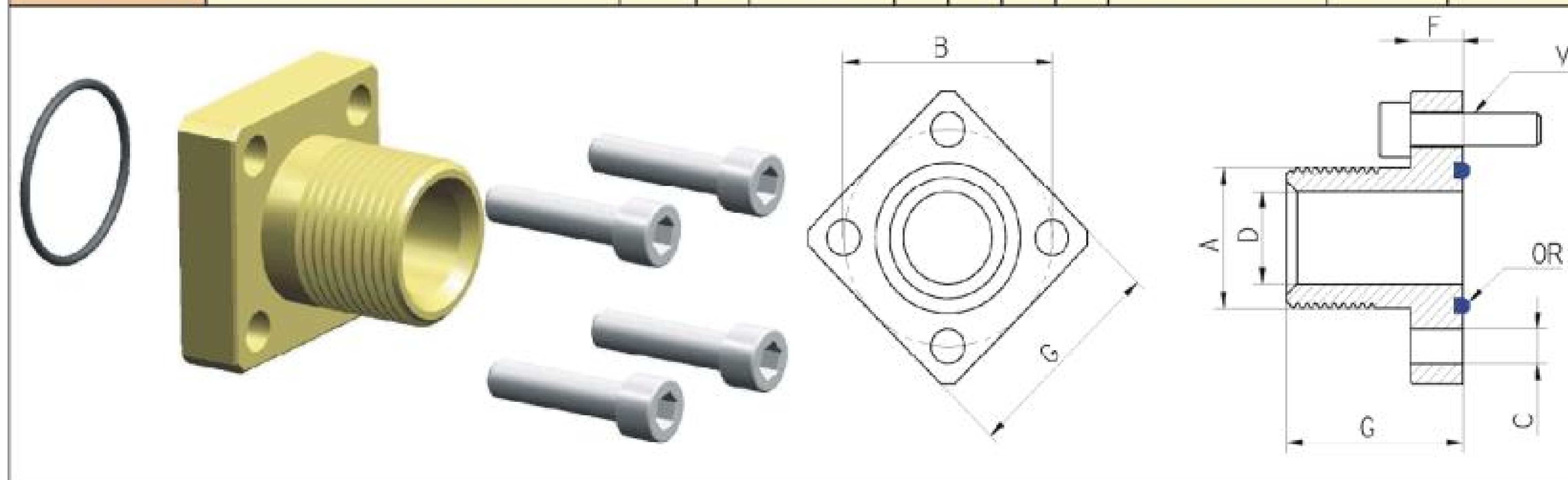
**SQUARED STEEL ELBOWS**

Code	Type	A	B	C	D	E	F	G	OR	V	Weight
									O ring	Screw	
8KRQ001	RQ 30/12-3/8"BSP	3/8"	30	6,5	12	19	11	41	ø15,88x2,61	Nº2 M6x20 Nº2 M6x35	0,29
8KRQ002	RQ 30/12-1/2"BSP	1/2"	30	6,5	12	19	11	41	ø15,88x2,62	Nº2 M6x20 Nº2 M6x35	0,29
8KRQ003	RQ 35/15 -3/8"BSP	3/8"	35	6,5	15	18	11	40	ø18,72x2,62	Nº2 M6x20 Nº2 M6x35	0,34
8KRQ004	RQ 35/15 -1/2"BSP	1/2"	35	6,5	15	18	11	40	ø18,72x2,62	Nº2 M6x20 Nº2 M6x35	0,34
8KRQ005	RQ 40/20-1/2"BSP	1/2"	40	6,5	20	24	10	45	ø22,22x2,62	Nº2 M6x25 Nº2 M6x45	0,4
8KRQ006	RQ 40/20-3/4"BSP	3/4"	40	6,5	20	24	10	45	ø22,22x2,62	Nº2 M6x25 Nº2 M6x45	0,4
8KRQ007	RQ 55/25-3/4"BSP	3/4"	55	8,5	25	35	13	54	ø29,75x3,53	Nº2 M8x25 Nº2 M8x60	0,45
8KRQ008	RQ 55/25-1" BSP	1"	55	8,5	25	35	13	54	ø29,75x3,53	Nº2 M8x25 Nº2 M8x60	0,45



**STRAIGHT STEEL UNIONS**

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





**Table of pressure drops**

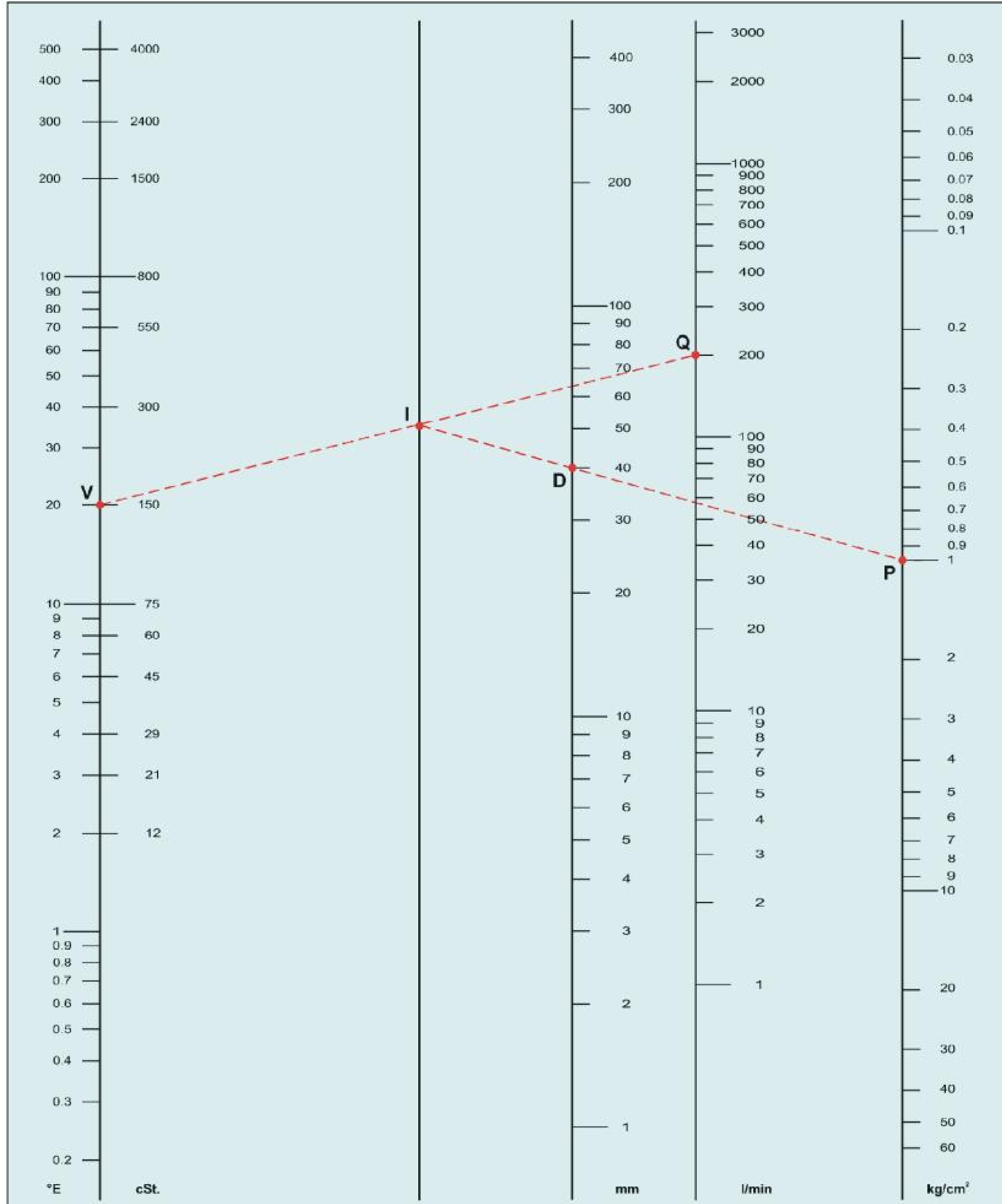
Note: based on the oil viscosity and capacity of a pump it is possible to determine the pressure drop for every 100 m of piping by means of the table.

On the viscosity, flow rate and internal pipe diameter scales, fix the corresponding values **V**, **Q** and **D**.

Join points **V** and **Q** with a straight line intersecting point **I** on the "index" line.

From this point **I**, pass a straight line through **D** until meeting the pressure drop scale at point **P**; the corresponding value represents the pressure drop at point **P**; the corresponding value represents the pressure drop along 100 m of piping.

EXAMPLE: a pipe through which a fluid having a viscosity of 150 cSt. flows at a rate of 200 l/min and which has a diameter of 40 mm will have a pressure drop of 1 kg/cm<sup>2</sup> for every 100 m of length.



- V**= Viscosity cSt -°E
- I** = Index line of intersection
- D**= Internal pipe diameter in mm
- Q**= Flow rate in l/min
- P**= Pressure drop kg/cm<sup>2</sup> per 100 m

# Welcome to MA Hydraulics

Our Company was formed in 1994 and for the early years we operated primarily as a regional distributor for UK sourced hydraulic system components.

Over the years, we have maintained a steady growth and have evolved into a well regarded force in sourcing and distributing a wide range of mobile and Industrial hydraulic pumps, valves and allied components.

We are the exclusive agents for several European and World Wide manufacturers and now we have the resources to compete on a national level, with quality, trusted established ranges of competitively priced equipment.

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- \* Orta Spool valves and Diverters
- \* Borelli Clutches, speed reducers & gearboxes
- \* Hystar Cetop valves and pumps
- \* Hoyea Cetop and Industrial equipment
- \* Taicin Piston & Vane pumps

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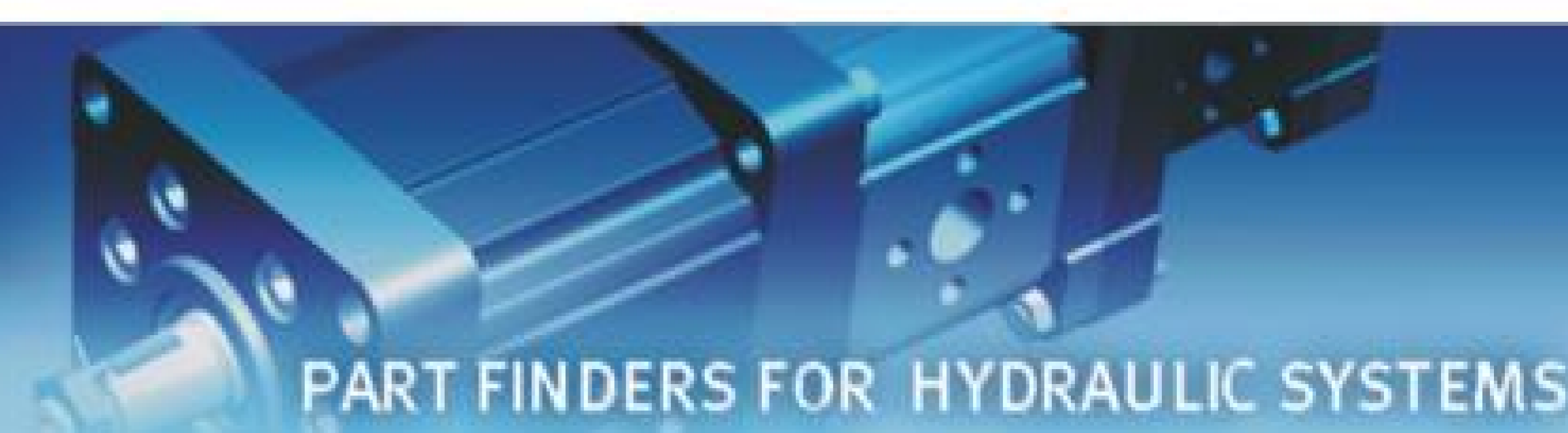
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