

The gear pumps are designed for transforming the driving energy into energy of the working liquid (pressure and flow rate). Pumps' components are made of high grade materials and ensure pumps' reliable work and parameters.

Хидравличните зъбни помпи са предназначени за преобразуване на енергията на двигателя в енергия на работната течност (дебит и налягане). Елементите на помпите се изработват от високакачествени материали и обезпечават надежната работа на изделията и техните параметри.

	Group I Група I	5		Group 30 Група 30	36
	Group II Група II	10		Group IV Група IV	44
	Gear pumps with valves Зъбни помпи с вградени клапани	21		Group V Група V	46
	Group III Група III	33		Tandem (Triple) Gear Pumps Сдвоени, Строени зъбни помпи	48
				Spare parts Резервни части	76

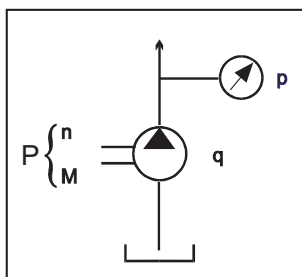
TECHNICAL DETAILS

ТЕХНИЧЕСКИ ХАРАКТЕРИСТИКИ

Oil viscosity:	Вискозитет на хидравличното масло:	[cst] [mm ² /s]	
admissible	допустим		6 ... 200
recommended	препоръчва се		20 ... 60
Degree of filtration:	Степен на филтрация:	[μm]	25
Operating temperature of the hydraulic oil:	Работна температура на маслото:	[°C]	-25 ... +80
recommended	препоръчва се		30 ... 50
Inlet pressure (abs):	Налягане на входа (абс):	[bar]	0.8 ... 2.2
Recommended oil speed:	Препоръчителна скорост на хидравличното масло:	[m/s]	
inlet	в зоната на засмукване (вход)		0.3 ... 1.3
outlet	в зоната на изтичане (изход)		2 ... 5.5

DESIGN CALCULATION FOR PUMPS

ИЗЧИСЛЕНИЯ ЗА ПОМПИТЕ



p [bar]

q [cm³]

n [min⁻¹]

η_q - 90... 94%
(75...96)%

η - 80 ... 85%
(67...86)%

Delivery:

Дебит:

$$Q = \frac{qn\eta_q}{1000} [l/min] = \frac{60qn\eta_q}{1000000} [m^3/h]$$

Theoretical drive torque

Теоретичен въртящ момент:

$$M_t = \frac{qp}{20\pi} [Nm]$$

Theoretical drive power

Теоретична мощност:

$$P_t = \frac{Qp}{612} [kW]$$

Drive power

Мощност на двигателя:

$$P = \frac{P_t}{\eta} [kW]$$

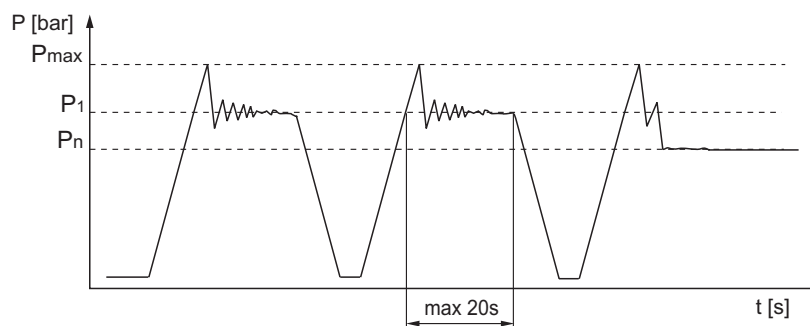
DIAGRAMS / ДИАГРАМИ

Operating conditions / Режим на работа

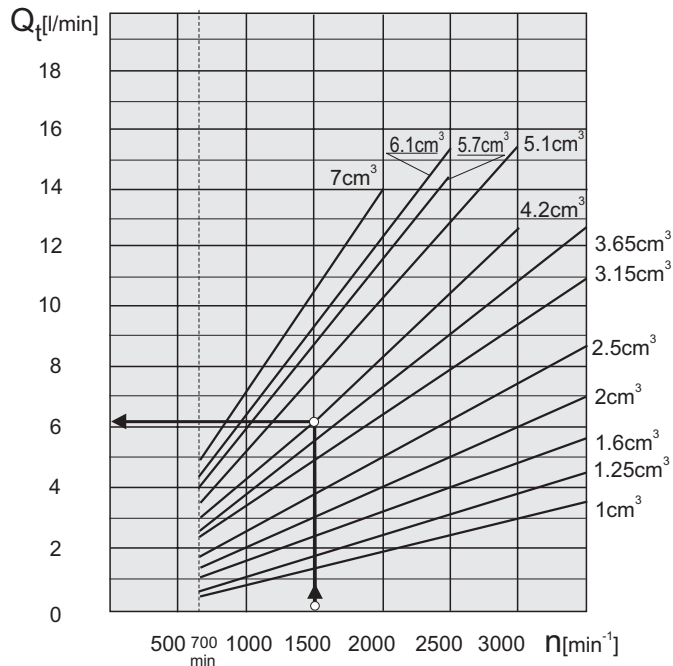
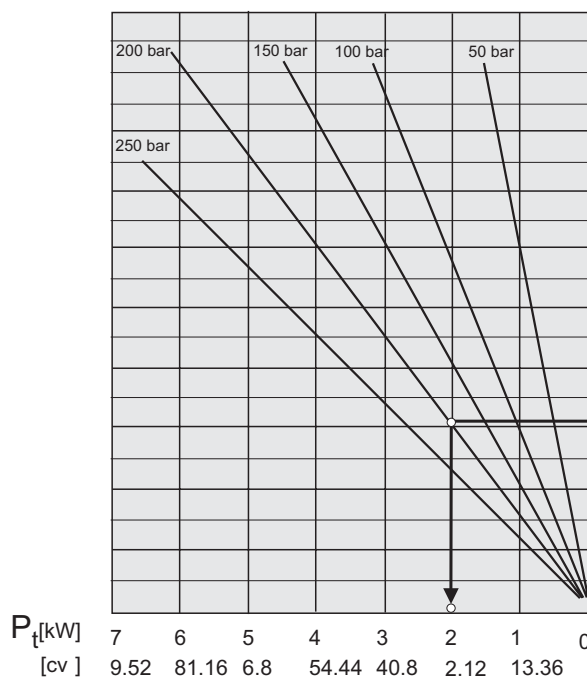
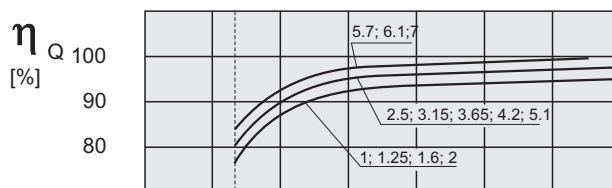
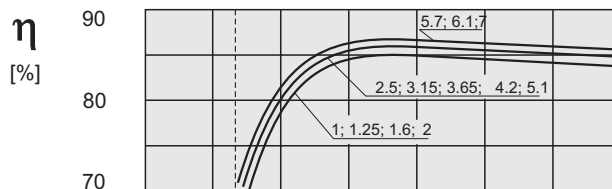
P_{max} - maximum (peak) pressure
 P_{max} - максимално (пиково) налягане

$P_1 = P_n + 10$ bar - intermittent operating pressure
 $P_1 = P_n + 10$ bar - моментно работно налягане

P_n - continuous operating (nominal) pressure
 P_n - постоянно работно (номинално) налягане

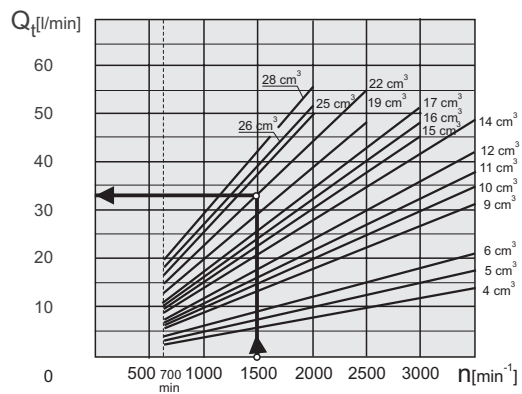
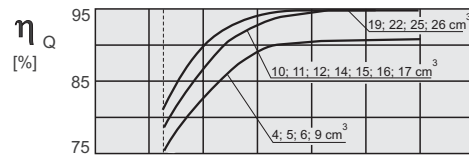
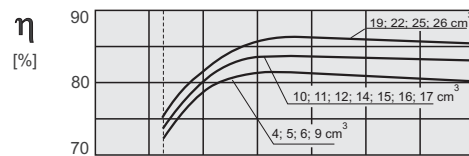
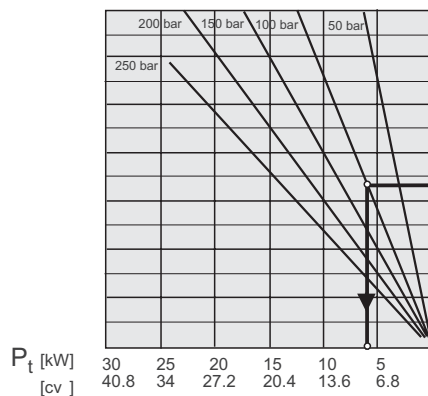


Group Група	I
$q = 1 \dots 7 \text{ cm}^3$ $Q = 1.35 \dots 9.8 \text{ l/min}$ (1500 min^{-1})	

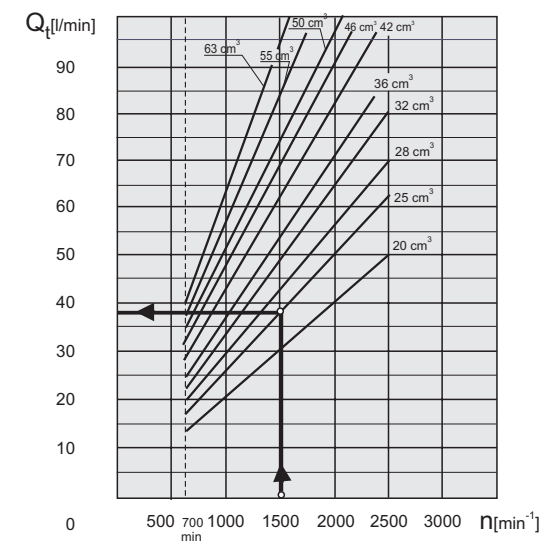
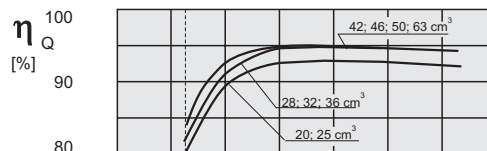
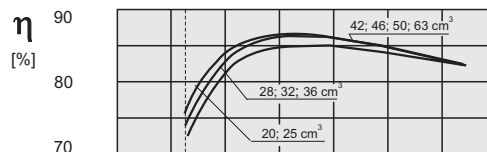
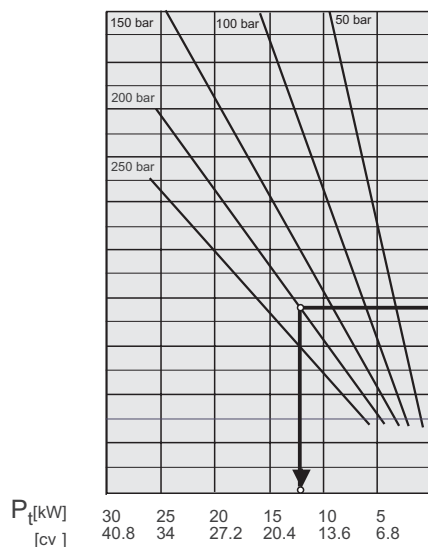


DIAGRAMS / ДИАГРАМИ

Group Група	II
$q = 4 \dots 26 \text{ cm}^3$ $Q = 6.5 \dots 37.5 \text{ l/min}$ (1500 min^{-1})	

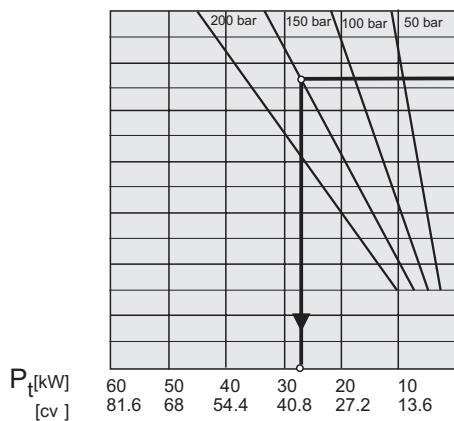


Group Група	III
$q = 20 \dots 63 \text{ cm}^3$ $Q = 28.2 \dots 89 \text{ l/min}$ (1500 min^{-1})	



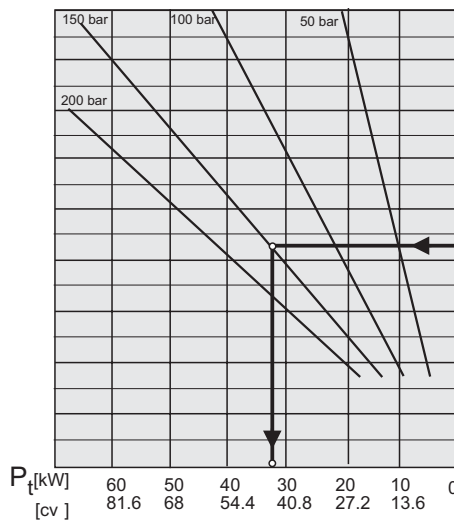
DIAGRAMS / ДИАГРАМИ

Group Група	IV
$q = 43 \dots 75 \text{ cm}^3$ $Q = 62.3 \dots 109 \text{ l/min}$ (1500 min^{-1})	

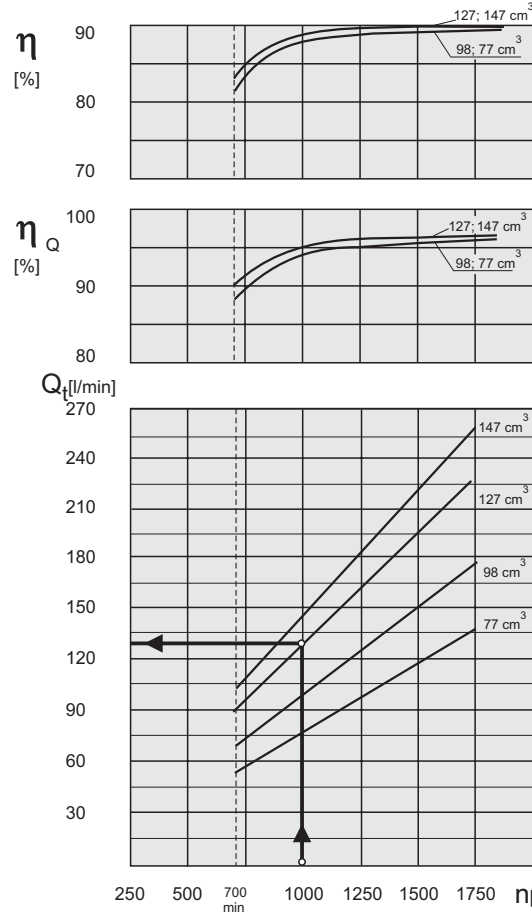
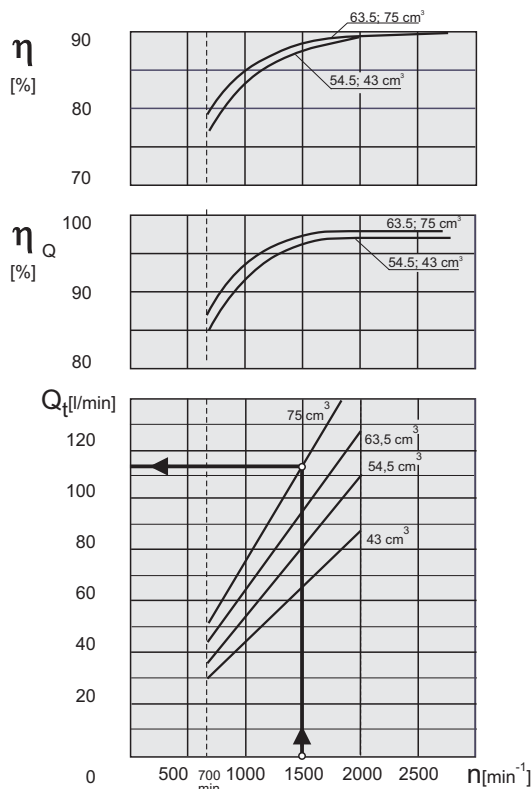


P_t [kW]
[cv]

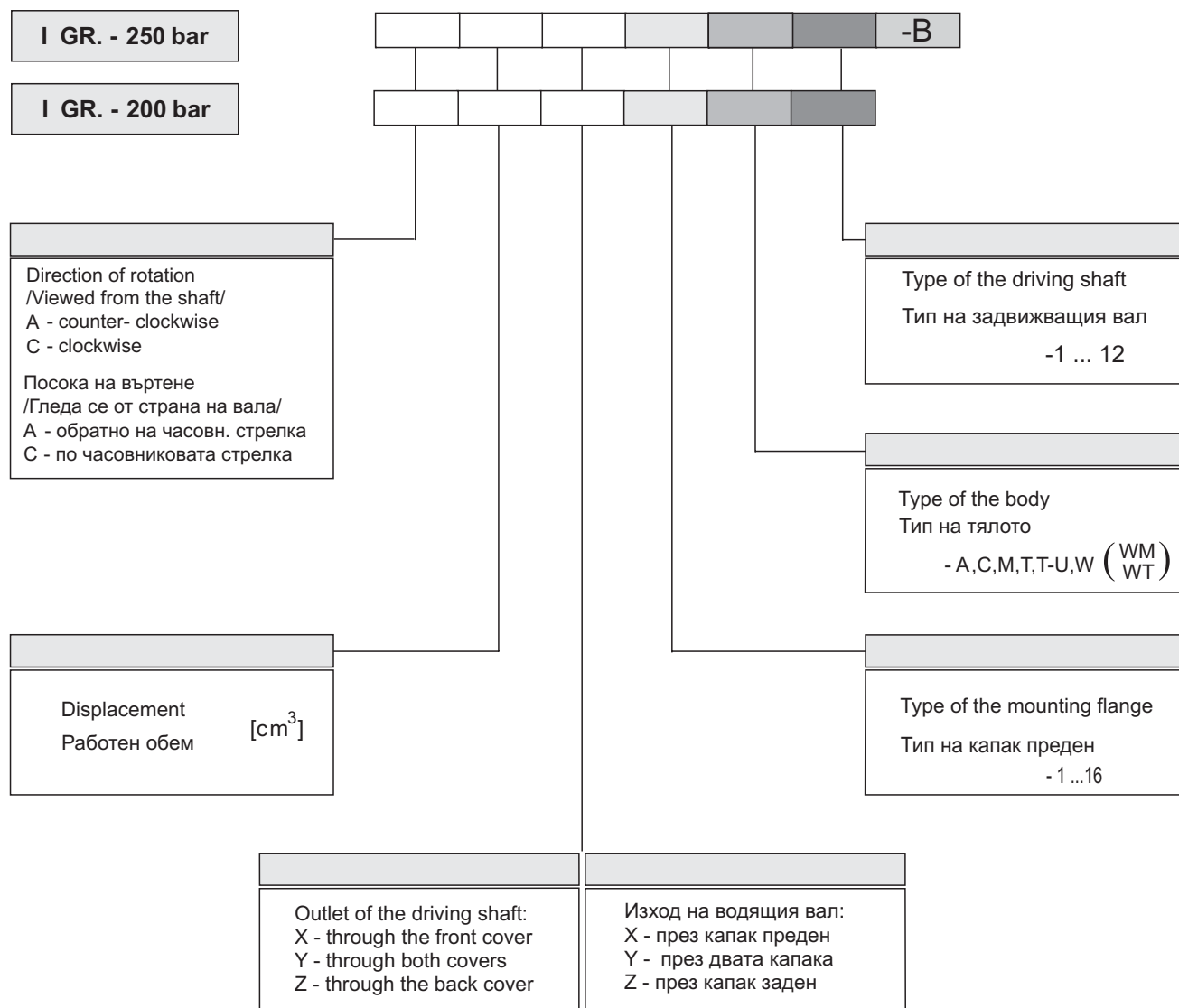
Group Група	V
$q = 77 \dots 147 \text{ cm}^3$ $Q = 115 \dots 215 \text{ l/min}$ (1500 min^{-1})	



P_t [kW]
[cv]



ORDERING CODES / НАЧИН НА ЗАЯВЯВАНЕ



Example:

200 bar : C5,1X1A1 Gear pump group I, direction of rotation clockwise, displacement 5 cm³, shaft outlet through the front cover, modification 1A1.

250 bar : C5,1X1A1-B Gear pump group I, direction of rotation - clockwise, displacement 5 cm³, shaft outlet throughout the front cover, modification 1A1-B

Пример:

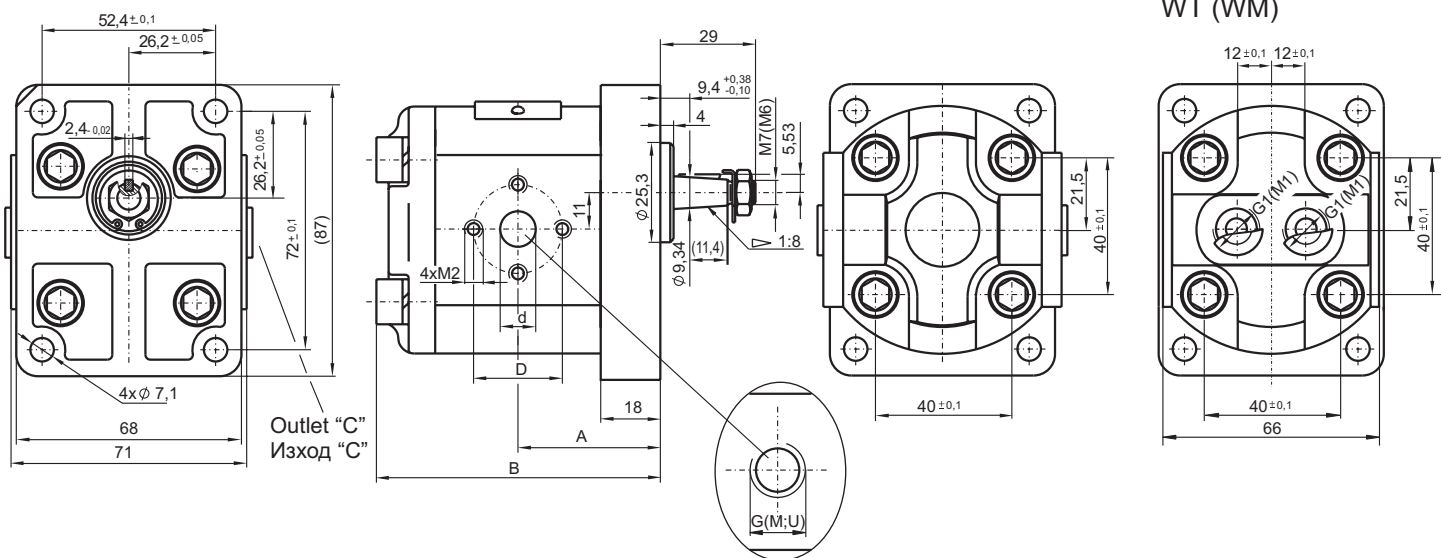
200 bar : C5,1X1A1 Зъбна помпа първа група, посока на въртене по часовниковата стрелка, работен обем 5.1 cm³, изход на вала през капак преден, модификация 1A1.

250 bar : C5,1X1A1-B Зъбна помпа първа група, посока на въртене по часовниковата стрелка, работен обем 5.1 cm³, изход на вала през капак преден, модификация 1A1-B.

Technical data				Технически данни									
Type size Типоразмер		1	1.25	16	2	2.5	3.15	3.65	4.2	5.1	5.7	6.1	7
Displacement Работен обем	cm ³	1	1.25	1.6	2	2.5	3.15	3.65	4.2	5	5.7	6.1	7
Rated pressure Номинално налягане	bar	*B	200	200	200	200	200	200	200	200	180	180	160
			250	250	250	250	250	250	250	250	250	200	200
Max. pressure Максимално налягане	bar	*B	250	250	250	250	250	250	250	250	200	200	180
			280	280	280	280	280	280	280	280	280	250	250
Min. speed Миним. Честота на въртене	min ⁻¹	*B	700	700	700	700	700	700	700	700	700	700	700
			700	700	700	700	700	700	700	700	700	700	700
Max. speed Макс. честота на въртене	min ⁻¹	*B	3500	3500	3500	3500	3500	3500	3500	3000	3000	2500	2500
			3500	3500	3500	3500	3500	3500	3500	3500	3000	3000	2500

* Note: Symbol "B" and all data in this row are according to the pumps for pressure of 250 bar.

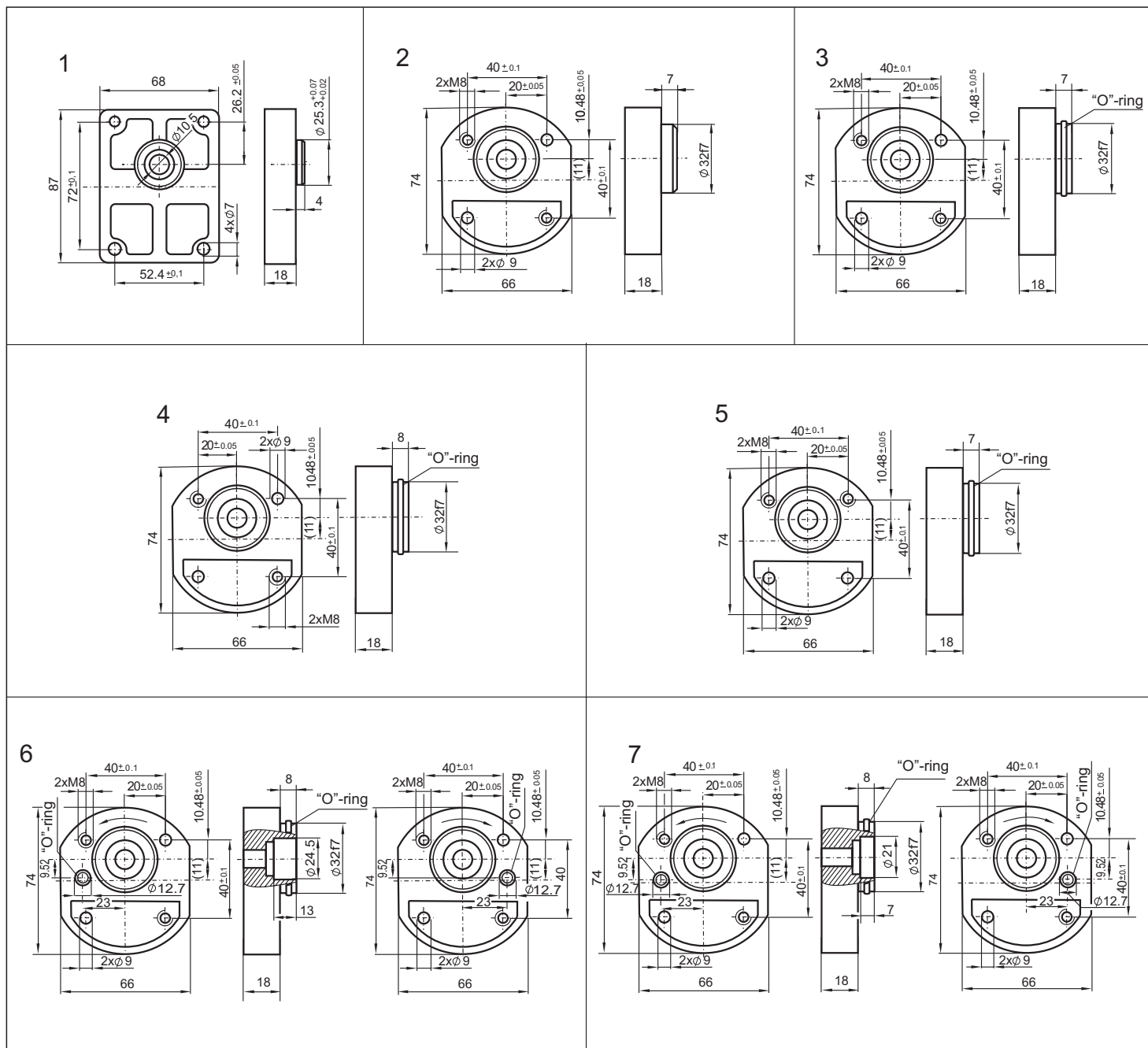
* Забележка: Символ "B" и данните, посочени срещу него, са за помпи за налягане 250 bar.



Type Тип	Dimensions Размери [mm]																	
	A	B _{max}	Inlet Вход					Outlet Изход										
			D	d	M2	M	G	U	G1	M1	D	d	M1	M	G	U	G1	M1
A(C)1X...	39.5	82.3	φ30	φ12	M6	M16x1.5	G3/8"	3/4"-16UNF-2B	G 3/8"	M16 x 1.5	φ30	φ12	M6	M16x1.5	G3/8"	9/16"-18UNF-2B	G1/4"	M14 x 1.5
A(C)1.25X...	39.9	83	φ30	φ12	M6	M16x1.5	G3/8"				φ30	φ12	M6	M16x1.5	G3/8"			
A(C)1.6X...	40.3	84	φ30	φ12	M6	M16x1.5	G3/8"				φ30	φ12	M6	M16x1.5	G3/8"			
A(C)2X...	41.1	85.5	φ30	φ12	M6	M16x1.5	G3/8"				φ30	φ12	M6	M16x1.5	G3/8"			
A(C)2.5X...	42.1	87.5	φ30	φ12	M6	M16x1.5	G3/8"				φ30	φ12	M6	M16x1.5	G3/8"			
A(X)3.15X...	43.4	90.4	φ30	φ12	M6	M20x1.5	G1/2"				φ30	φ12	M6	M16x1.5	G3/8"			
A(C)3.65X...	44.4	92.4	φ30	φ12	M6	M20x1.5	G1/2"				φ30	φ12	M6	M16x1.5	G3/8"			
A(C)4.2X...	45.5	94.5	φ30	φ12	M6	M20x1.5	G1/2"				φ30	φ12	M6	M16x1.5	G3/8"			
A(C)5.1X...	47.1	97.5	φ30	φ12	M6	M20x1.5	G1/2"				φ30	φ12	M6	M16x1.5	G3/8"			
A(C)5.7X...	48.5	100.5	φ30	φ12	M6	M20x1.5	G1/2"				φ30	φ12	M6	M16x1.5	G3/8"			
A(C)6.1X...	49.4	102.2	φ30	φ12	M6	M20x1.5	G1/2"				φ30	φ12	M6	M16x1.5	G3/8"			
A(C)7X...	51.2	106	φ30	φ12	M6	M20x1.5	G1/2"				φ30	φ12	M6	M16x1.5	G3/8"			

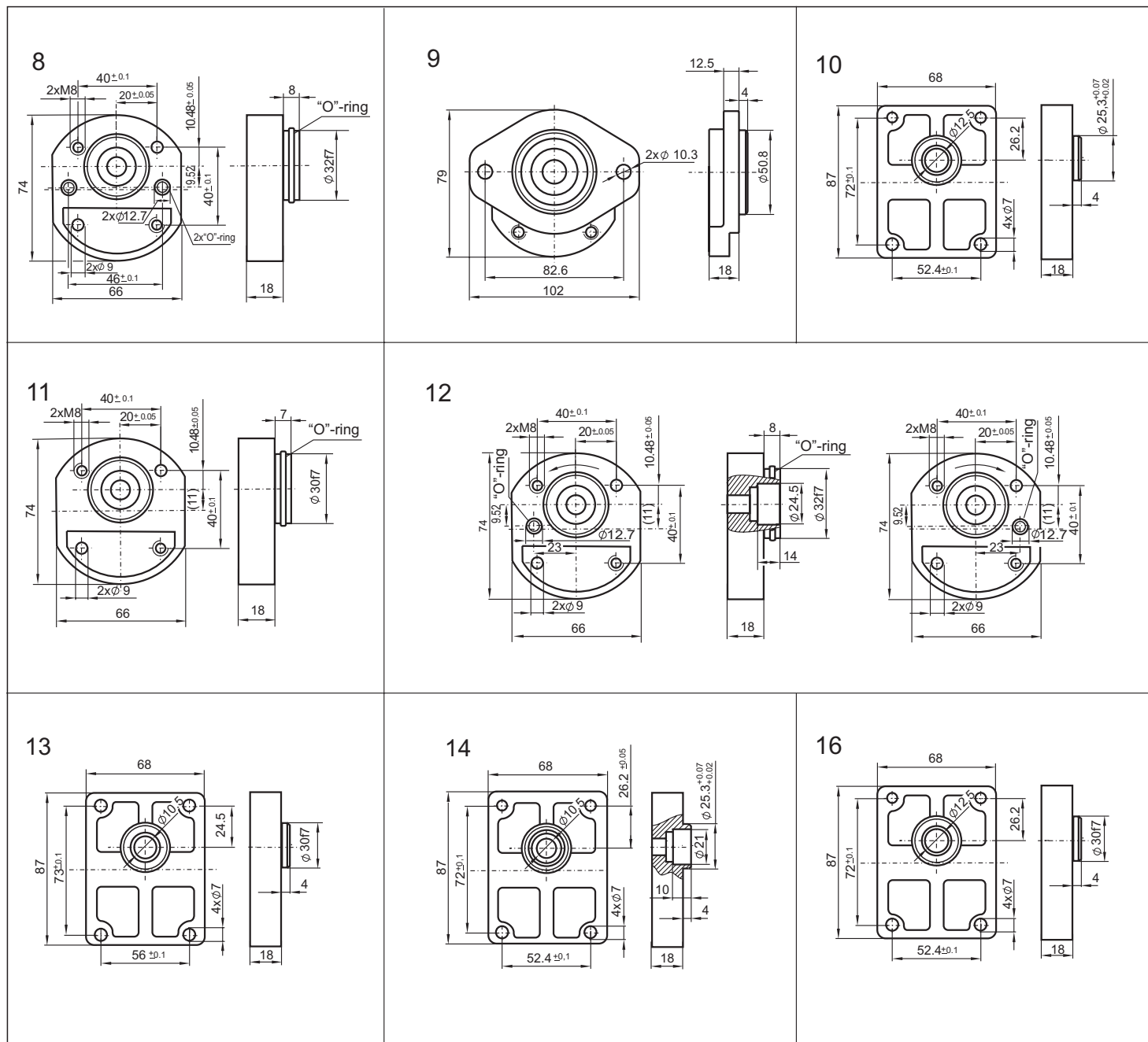
ORDERING CODES / НАЧИН НА ЗАЯВЯВАНЕ

MOUNTING FLANGE TYPE / ТИП НА КАПАК ПРЕДЕН



ORDERING CODES / НАЧИН НА ЗАЯВЯВАНЕ

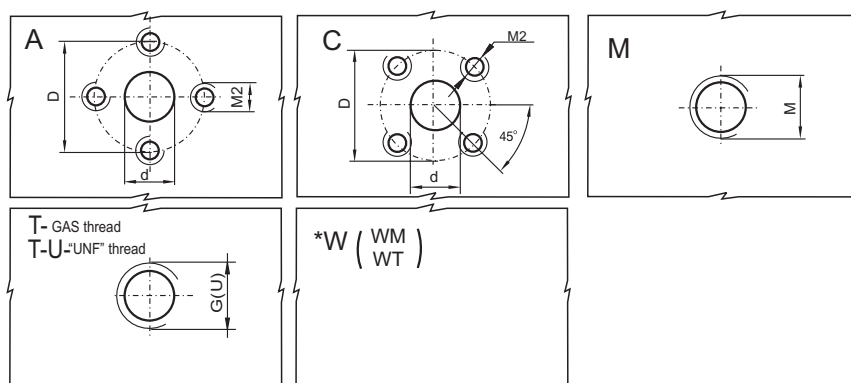
MOUNTING FLANGE TYPE / ТИП НА КАПАК ПРЕДЕН



GROUP I / ГРУПА I

ORDERING CODES / НАЧИН НА ЗАЯВЯВАНЕ

BODY TYPE / ТИП НА ТЯЛОТО

***Note:**

Case W: The input and output openings (M or T) are located on the back cover.

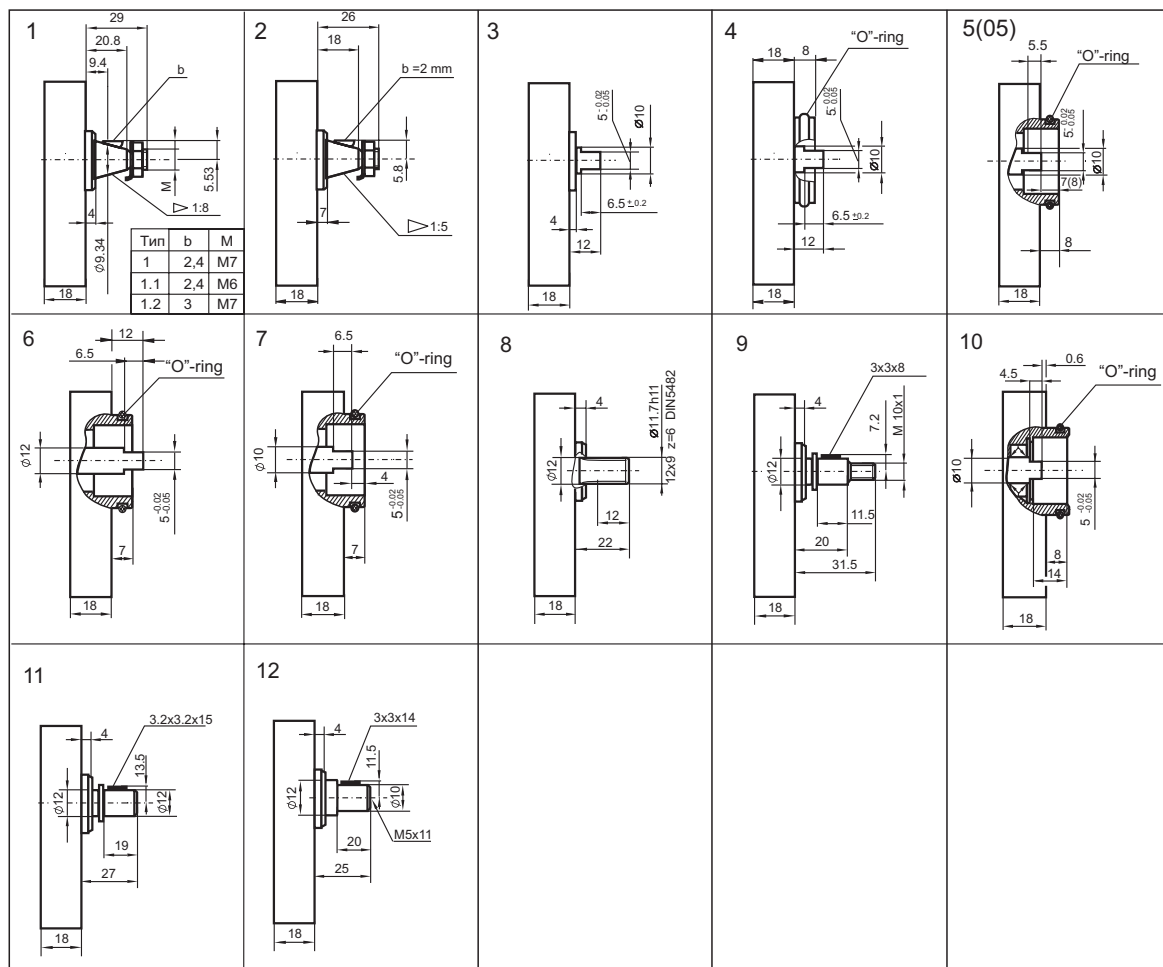
This is designated as WM or WT.

***Забележка:**

Тяло W: Отворите за входа и изхода (М или Т) се намират в капак заден.

Това се означ. с WM или WT.

TYPE OF THE DRIVING SHAFT / ТИП НА ЗАДВИЖВАЩИЯ ВАЛ



II GR. - 250 bar

II GR. - 200 bar

Посока на въртене
/Гледа се от страна на вала/
А - обратно на часовн. стрелка
С - по часовниковата стрелка

Displacement
Работен обем [cm³]

Outlet of the driving shaft:
X - through the front cover
Y - through both covers
Z - through the back cover

Type of the driving shaft
Тип на задвижващия вал
-1...18

Type of the body
Тип на тялото

- A, C, N, M, T, T-U, T-N, H, $W\left(\frac{W_M}{W_T}\right)$

Type of the mounting flange
Тип на капак преден
- 1 ...21

Изход на водещият вал:
X - през капак преден
Y - през двата капака
Z - през капак заден

250 bar: C14X4A2-B gear pump
group II, direction of rotation -
clockwise, displacement 14 cm³,
shaft outlet throughout the front
cover, modification 4A2-B

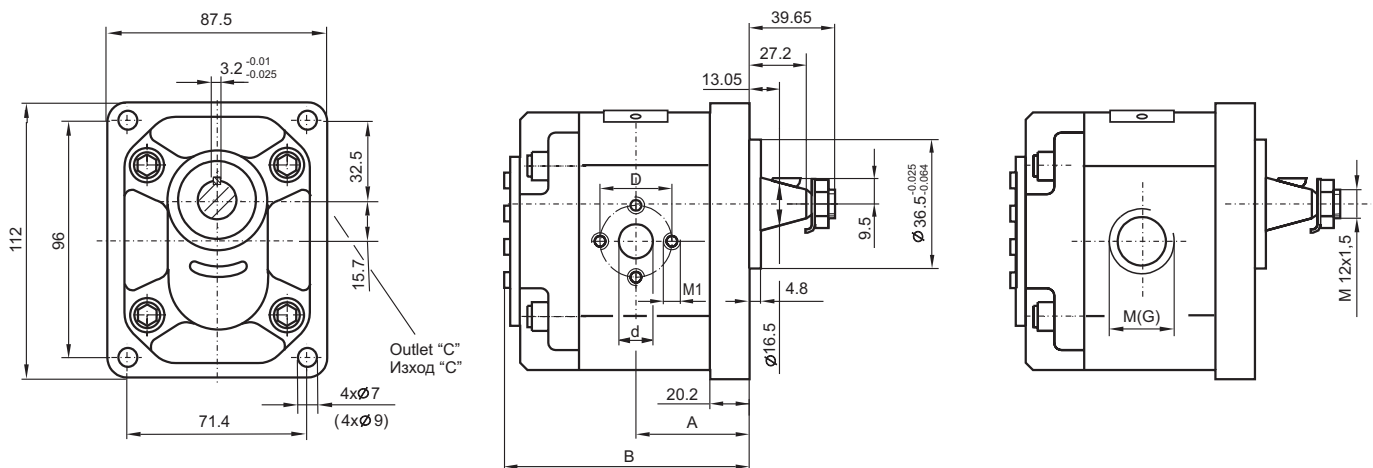
250 bar: C14X4A2-B зъбна помпа
втора група, посока на въртене по
часовниковата стрелка, работен
обем 14 cm³, изход на вала през
капак преден, модификация 4A2-B.

GROUP II / ГРУПА II

Technical data							Технически данни										
Type size Типоразмер	4	5	6	9	10	11	12	14	15	16	17	19	22	25	26	28	
Displacement Работен обем	cm ³	4	5	6	9	10	11	12	14	15	16	17	19	22	25	26	28
Rated pressure Номинално налягане	bar	200	200	200	200	200	200	200	200	200	200	200	180	180	140	140	140
	*B	250	250	250	250	250	250	250	250	250	250	250	200	200	160	160	160
Max. pressure Максимално налягане	bar	250	250	250	250	250	250	250	250	250	250	250	230	230	210	210	210
	*B	280	280	280	280	280	280	280	280	280	280	280	250	250	230	230	230
Min. speed Миним. честота на въртене	min ⁻¹	700	700	700	700	700	700	700	700	700	700	700	700	700	700	700	700
	*B	700	700	700	700	700	700	700	700	700	700	700	700	700	700	700	700
Max. speed Макс. честота на въртене	min ⁻¹	3500	3500	3500	3500	3500	3500	3500	3500	3000	3000	3000	2500	2500	2000	2000	2000
	*B	3500	3500	3500	3500	3500	3500	3500	3500	3000	3000	3000	2500	2500	2000	2000	2000

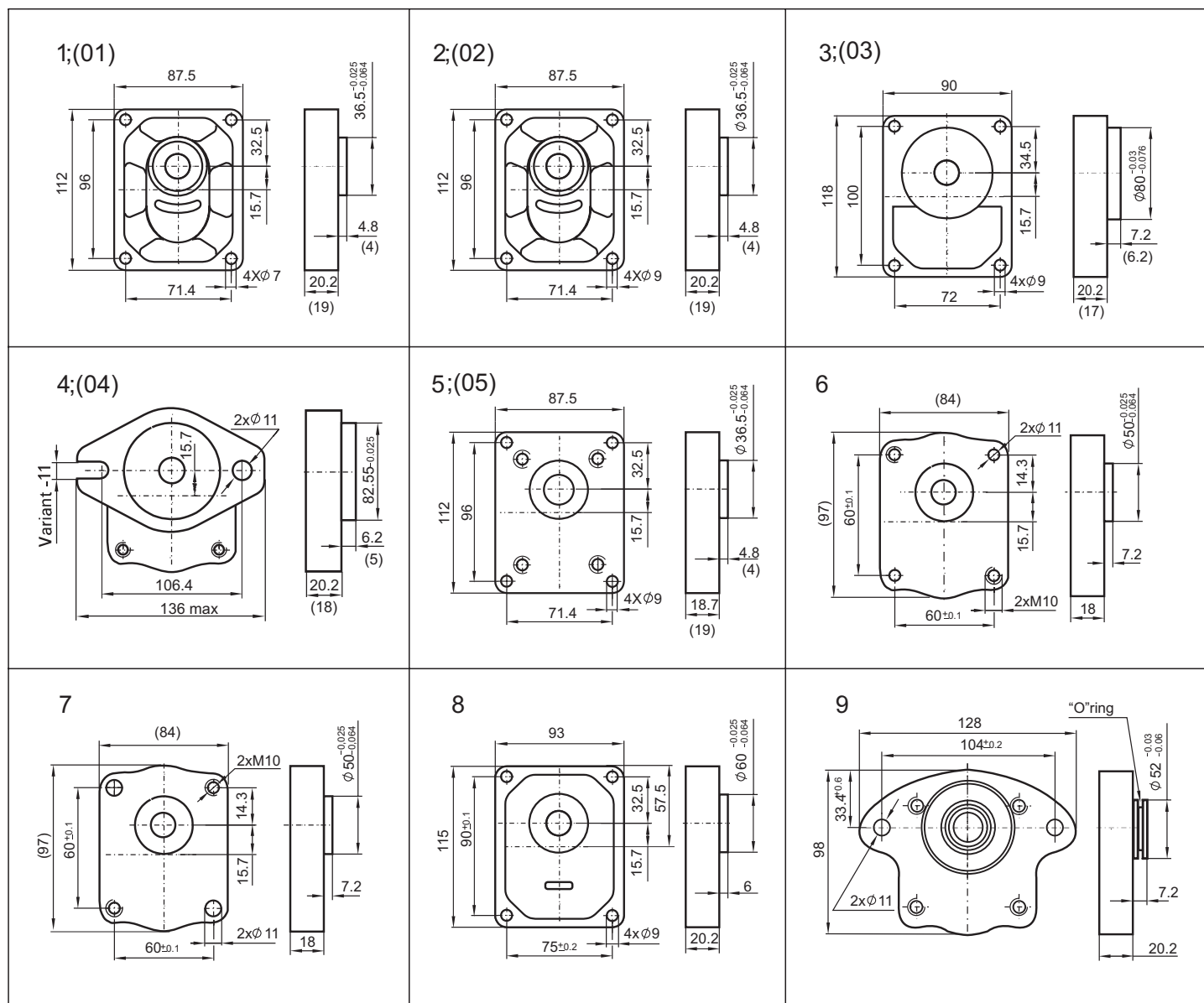
* Note: Symbol "B" and all data in this row are according to the pumps for pressure of 250 bar.

* Забележка: Символ "B" и данните посочени срещу него са за помпи за налягане 250 bar.



Type Тип	Dimensions Размери [mm]																	
	A	B _{max}	Inlet Вход								Outlet Изход							
			A			C			M	T	A			C			M	T
			D	d	M ₁	D ₁	d ₁	M ₂	M	G	D	d	M ₁	D ₁	d ₁	M ₂	M	G
A(C)4X...	43.7	92.2	30.2	13.1	M6	40	20	M6	M20x1.5	G1/2"	30.2	13.1	M6	35	15	M6	M16x1.5	G1/2"
A(C)5X...	44.5	93.7	30.2	13.1	M6	40	20	M6	M20x1.5	G1/2"	30.2	13.1	M6	35	15	M6	M16x1.5	G1/2"
A(C)6X...	45.2	95.2	30.2	13.1	M6	40	20	M6	M20x1.5	G1/2"	30.2	13.1	M6	35	15	M6	M16x1.5	G1/2"
A(C)9X...	47.2	99.2	30.2	13.1	M6	40	20	M6	M20x1.5	G1/2"	30.2	13.1	M6	35	15	M6	M16x1.5	G1/2"
A(C)10X...	48.2	101.2	39.7	19	M8	40	20	M6	M20x1.5	G3/4"	30.2	14.2	M6	35	15	M6	M16x1.5	G1/2"
A(C)11X...	49.2	103.2	39.7	19	M8	40	20	M6	M20x1.5	G3/4"	30.2	14.2	M6	35	15	M6	M16x1.5	G1/2"
A(C)12X...	50.2	105.2	39.7	19	M8	40	20	M6	M20x1.5	G3/4"	30.2	14.2	M6	35	15	M6	M16x1.5	G1/2"
A(C)14X...	52.2	109.2	39.7	19	M8	40	20	M6	M20x1.5	G3/4"	30.2	14.2	M6	35	15	M6	M16x1.5	G1/2"
A(C)15X...	53	110.7	39.7	19	M8	40	20	M6	M20x1.5	G3/4"	30.2	14.2	M6	35	15	M6	M16x1.5	G1/2"
A(C)16X...	53.7	112.2	39.7	19	M8	40	20	M6	M20x1.5	G3/4"	30.2	14.2	M6	35	15	M6	M16x1.5	G1/2"
A(C)17X...	54.2	113.2	39.7	19	M8	40	20	M6	M20x1.5	G3/4"	30.2	14.2	M6	35	15	M6	M16x1.5	G1/2"
A(C)19X...	56.2	117.2	39.7	19	M8	40	20	M6	M20x1.5	G3/4"	30.2	14.2	M6	35	15	M6	M16x1.5	G1/2"
A(C)22X...	59.2	123.2	39.7	19	M8	40	20	M6	M20x1.5	G3/4"	30.2	14.2	M6	35	15	M6	M20x1.5	G1/2"
A(C)25X...	61	126.7	39.7	19	M8	40	20	M6	M20x1.5	G3/4"	30.2	14.2	M6	35	15	M6	M20x1.5	G1/2"
A(C)26X...	61.7	128.2	39.7	19	M8	40	20	M6	M20x1.5	G3/4"	30.2	14.2	M6	35	15	M6	M20x1.5	G1/2"
A(C)28X...	63.7	132	39.7	19	M8						39.7	19	M8					

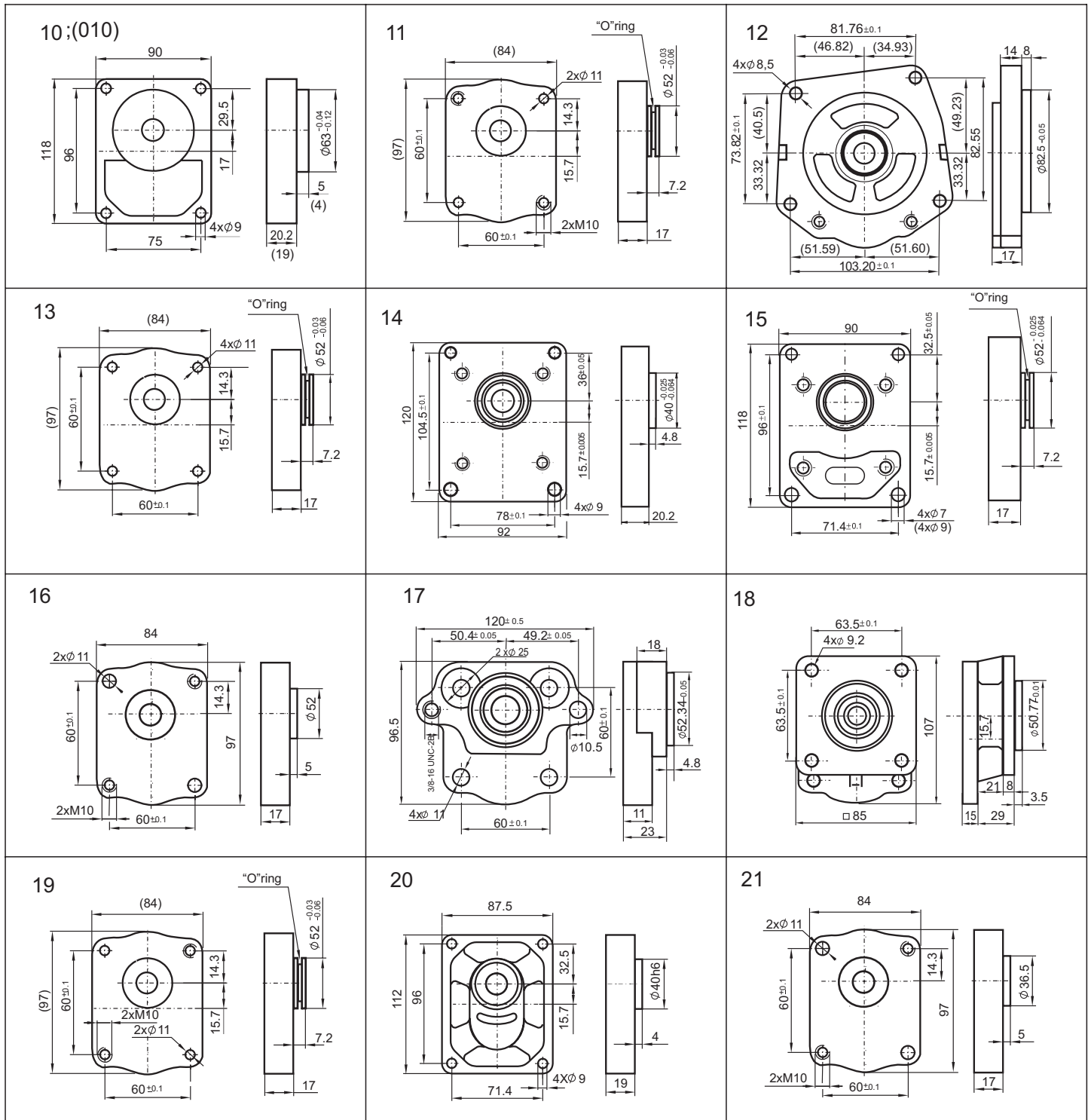
MOUNTING FLANGE TYPE / ВИДОВЕ ПРЕДНИ КАПАЦИ



GROUP II / ГРУПА II

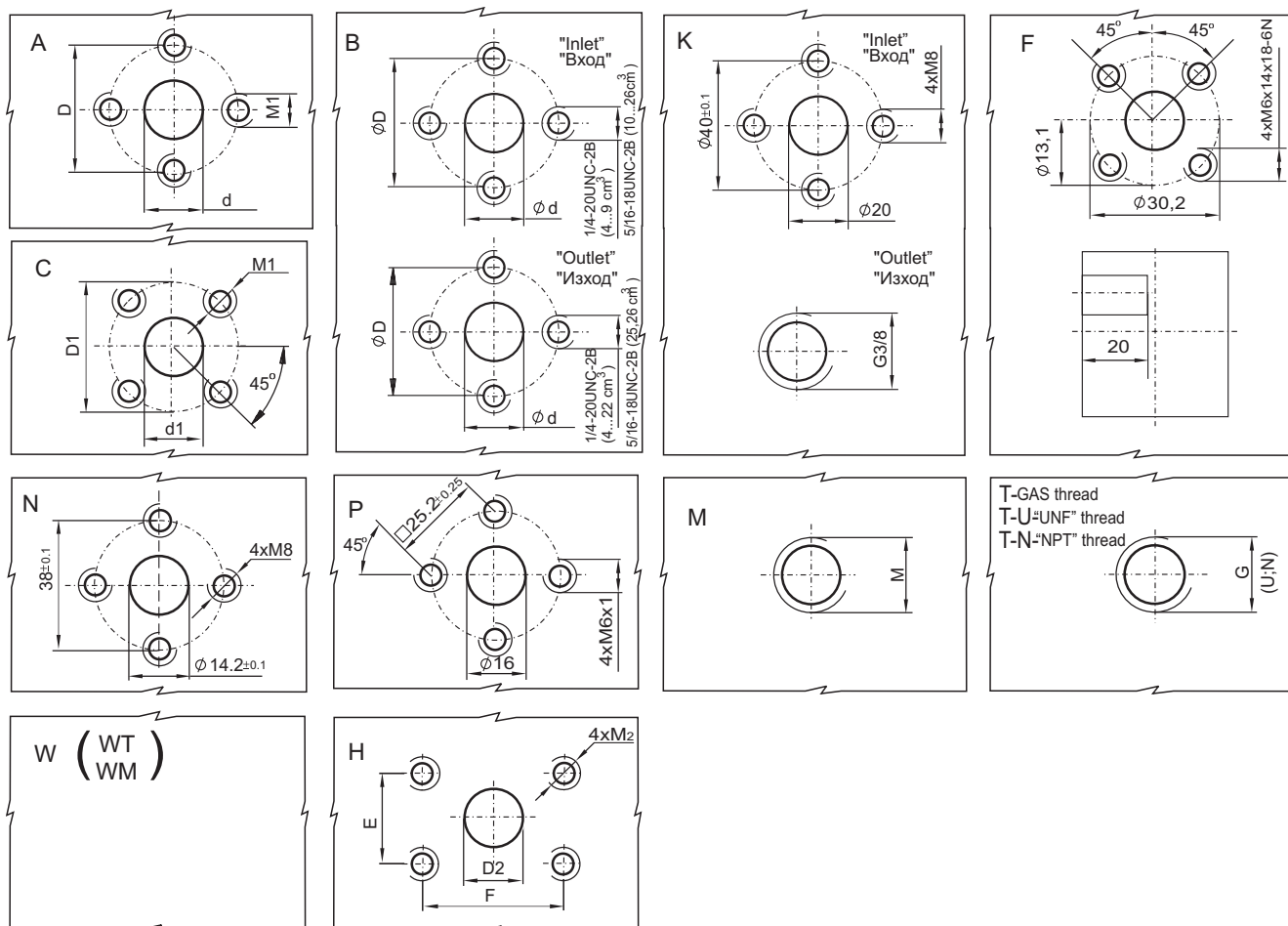
ORDERING CODES / НАЧИН НА ЗАЯВЯВАНЕ

MOUNTING FLANGE TYPE / ВИДОВЕ ПРЕДНИ КАПАЦИ



ORDERING CODES / НАЧИН НА ЗАЯВЯВАНЕ

BODY TYPE / ТИП НА ТЯЛОТО



Note:

Body W:

The input and output openings (M or T) are located on the back cover.

This is designated as: WM or WT

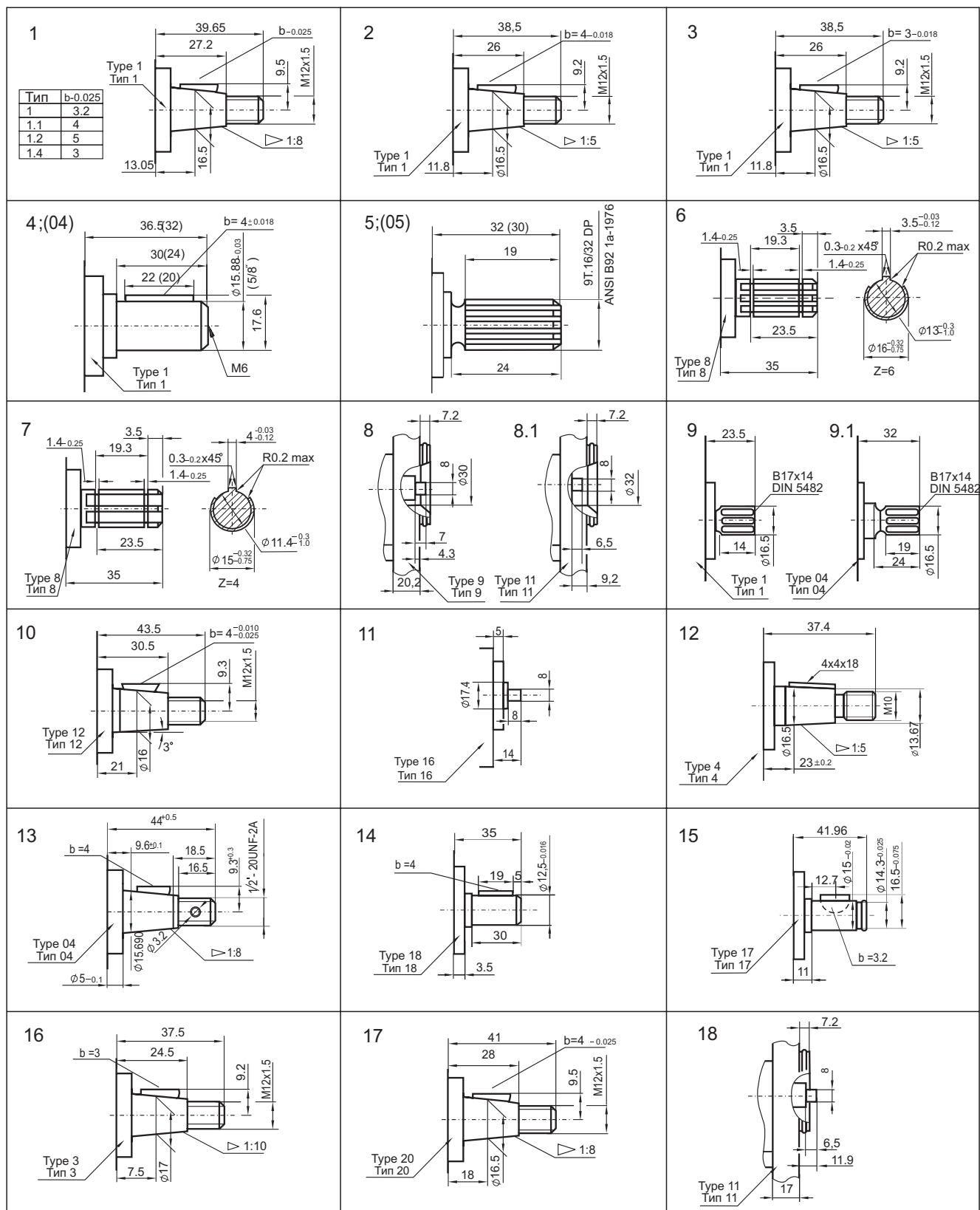
Забележка:

Тяло W:

Отворите за вход и изход (M или T) се намират в капак заден.

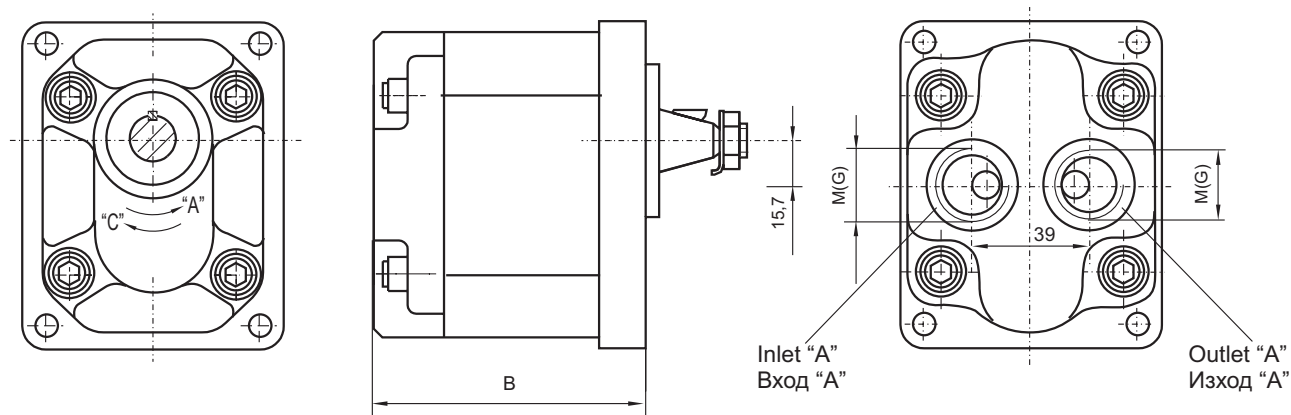
Това се означава с WM или WT

TYPE OF THE DRIVING SHAFT / ТИП НА ИЗХОДА НА ЗАДВИЖВАЩИЯ ВАЛ



A(C)...X...WM(WT)...

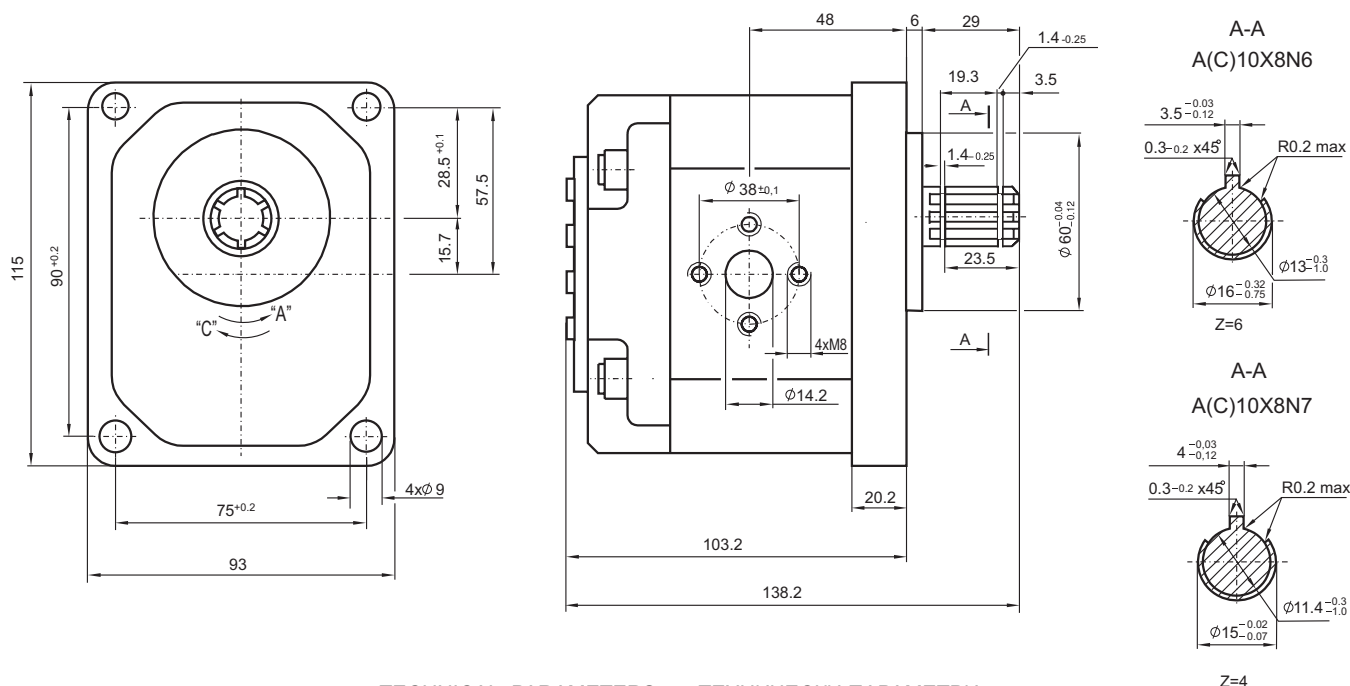
Gear pumps with input and output openings located on the back cover
Зъбни помпи, на които входът и изходът се намират в задния капак



Type Тип	Работен обем Displacement	Dimensions		Размери		
		B	Inlet Вход		Outlet Изход	
			M	G	M	G
		mm	"		mm	"
A(C)4X... WM(WT)...	4	89	M20x1.5	1/2	M16x1.5	1/2
A(C)5X... WM(WT)...	5	90.5	M20x1.5	1/2	M16x1.5	1/2
A(C)6X... WM(WT)...	6	92	M20x1.5	1/2	M16x1.5	1/2
A(C)9X... WM(WT)...	9	96	M20x1.5	1/2	M16x1.5	1/2
A(C)10X... WM(WT)...	10	98	M20x1.5	3/4	M16x1.5	1/2
A(C)11X... WM(WT)...	11	100	M20x1.5	3/4	M16x1.5	1/2
A(C)12X... WM(WT)...	12	102	M20x1.5	3/4	M16x1.5	1/2
A(C)14X... WM(WT)...	14	106	M20x1.5	3/4	M16x1.5	1/2
A(C)15X... WM(WT)...	15	107.5	M20x1.5	3/4	M16x1.5	1/2
A(C)16X... WM(WT)...	16	109	M20x1.5	3/4	M16x1.5	1/2
A(C)17X... WM(WT)...	17	110	M20x1.5	3/4	M16x1.5	1/2
A(C)19X... WM(WT)...	19	114	M20x1.5	3/4	M16x1.5	1/2
A(C)22X... WM(WT)...	22	120	M20x1.5	3/4	M20x1.5	1/2
A(C)25X... WM(WT)...	25	123.7	M20x1.5	3/4	M20x1.5	1/2
A(C)26X... WM(WT)...	26	125	M20x1.5	3/4	M20x1.5	1/2

ANALOGUES OF HYDRAULIC GEAR PUMPS НШ10Е-2,НШ10-3
 АНАЛОЗИ НА ХИДРАВЛИЧНИ ЗЪБНИ ПОМПИ НШ10Е-2,НШ10-3

A(C)10X8N...



TECHNICAL PARAMETERS ТЕХНИЧЕСКИ ПАРАМЕТРИ

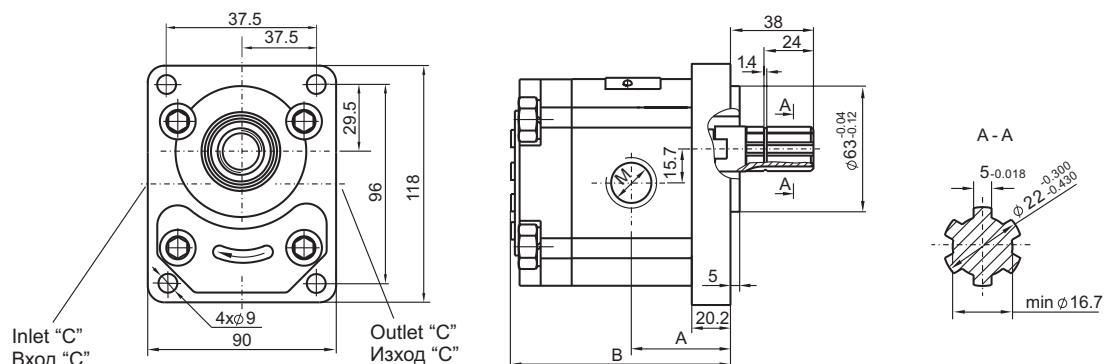
Working volume Работен обем	cm ³	10
Output pressure of the pump Изходящо налягане на помпата		
Nominal Номинално	bar	140
Maximal Максимално	bar	175
Absolute input pressure of the pump Абсолютно налягане на входа на помпата		
Nominal Номинално	bar	0.74
Maximal Максимално	bar	1.5
Rotational frequency of the pump shaft Честота на въртене на вала на помпата		
Minimal Минимално	min ⁻¹	900
Nominal Номинално	min ⁻¹	1920
Maximal Максимално	min ⁻¹	3500

The joining sizes and the technical parameters of the pumps fully comply with those of НШ10Е-2 and НШ10-3. The pumps are purposed to be used into the hydraulics systems of tractors, agricultural, earth moving, load lifting machines etc. For example, pump НШ10Е-2 is mounted onto tractors Т25, ТЛ-30А, МТЗ 50/52 and others.

Размерите за присъединяване и техническите параметри на зъбните помпи, показани на чертежа и таблицата, изцяло съответстват на НШ10Е-2 и НШ10-3. Помпите са предназначени за използване в хидравлични системи на трактори, селскостопански машини, пътнотранспортна техника и др. Например помпа НШ10Е-2 окомплектова тракторите Т25, ТЛ-30А, МТЗ 50/52 и други.

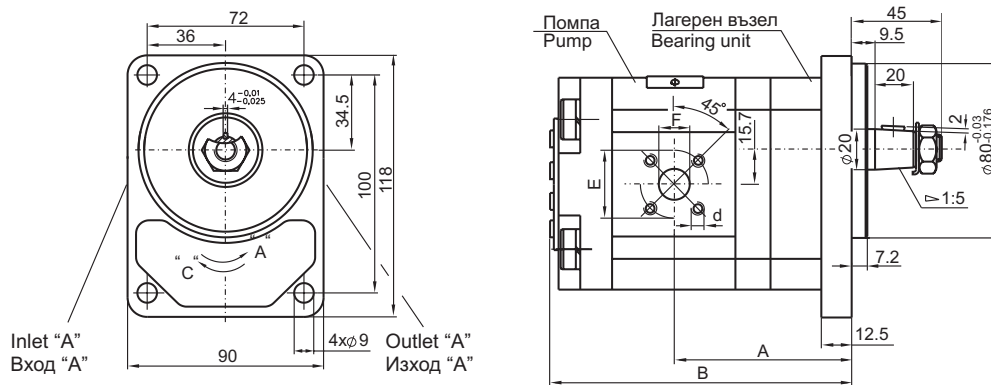
GROUP II / ГРУПА II

A(C)...X10M8



Type Тип		Dimensions Размери [mm]												
		A	B	Inlet Вход				Outlet Изход						
				E	d	F	M	G	E	d	F	M	G	
A(C)4X10M8		43.7	92.2				M18x1.5						M12x1.5	
A(C)5X10M8		44.5	93.7				M18x1.5						M12x1.5	
A(C)6X10M8		45.2	95.2				M18x1.5						M12x1.5	
A(C)9X10M8		47.2	99.2				M18x1.5						M12x1.5	
A(C)10X10M8		48.2	101.2				M22x1.5						M14x1.5	
A(C)11X10M8		49.2	103.2				M22x1.5						M14x1.5	
A(C)12X10M8		50.2	105.2				M22x1.5						M14x1.5	
A(C)14X10M8		52.2	109.2				M27x1.5						M18x1.5	
A(C)15X10M8		53	110.7				M27x1.5						M18x1.5	
A(C)16X10M8		53.7	112.2				M27x1.5						M18x1.5	
A(C)17X10M8		54.2	113.2				M27x1.5						M18x1.5	
A(C)19X10M8		56.2	117.2				M27x1.5						M18x1.5	
A(C)22X10M8		59.2	123.2				M27x1.5						M18x1.5	
A(C)25X10M8		61	126.2				M27x1.5						M18x1.5	
A(C)26X10M8		61.7	128.2				M27x1.5						M18x1.5	

BU3F1/1-A(C)...X13C8.1B

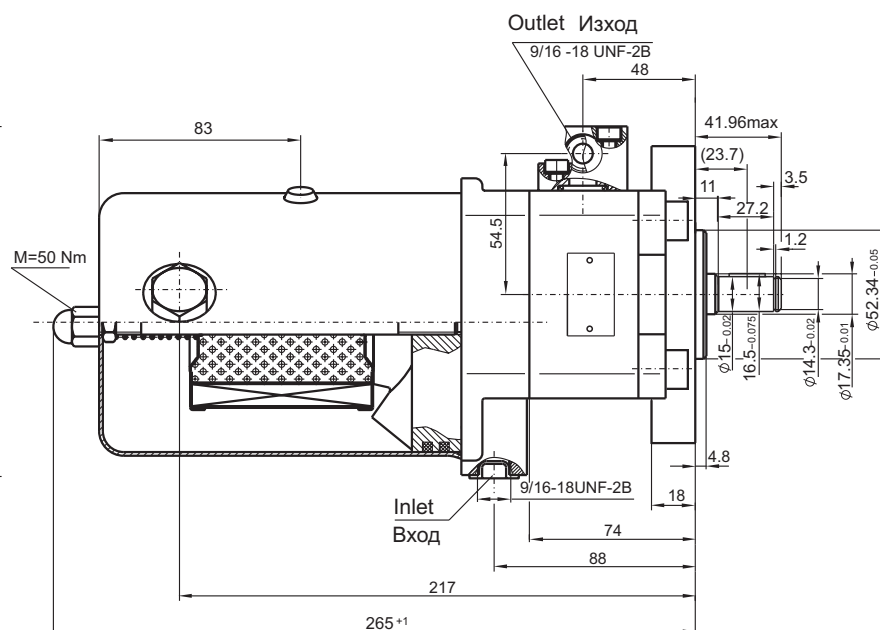
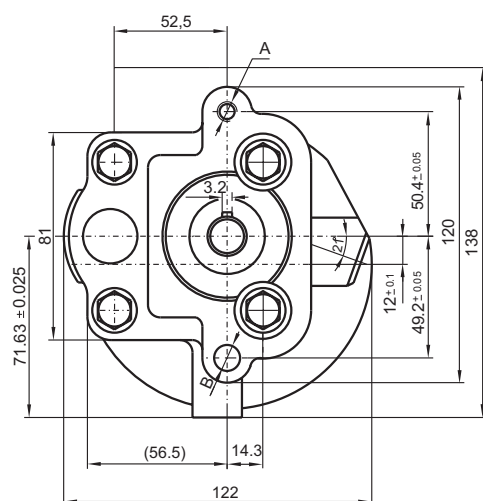
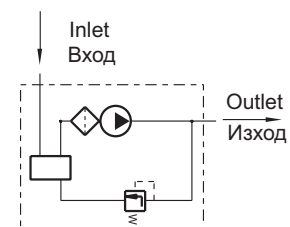


Type Тип		Dimensions Размери [mm]											
		A	B	Inlet Вход				Outlet Изход					
				E	d	F	M	G	E	d	F	M	G
BU3F1/1-A(C)4X13C8.1-B		74.5	123	ø40	M6	ø20			ø35	M6	ø15		
BU3F1/1-A(C)5X13C8.1-B		75.3	124.5	ø40	M6	ø20			ø35	M6	ø15		
BU3F1/1-A(C)6X13C8.1-B		76	126	ø40	M6	ø20			ø35	M6	ø15		
BU3F1/1-A(C)9X13C8.1-B		78	130	ø40	M6	ø20			ø35	M6	ø15		
BU3F1/1-A(C)10X13C8.1-B		79	132	ø40	M6	ø20			ø35	M6	ø15		
BU3F1/1-A(C)11X13C8.1-B		80	134	ø40	M6	ø20			ø35	M6	ø15		
BU3F1/1-A(C)12X13C8.1-B		81	136	ø40	M6	ø20			ø35	M6	ø15		
BU3F1/1-A(C)14X13C8.1-B		83	140	ø40	M6	ø20			ø35	M6	ø15		
BU3F1/1-A(C)15X13C8.1-B		84	141.5	ø40	M6	ø20			ø35	M6	ø15		
BU3F1/1-A(C)16X13C8.1-B		84.5	143	ø40	M6	ø20			ø35	M6	ø15		
BU3F1/1-A(C)17X13C8.1-B		85	144	ø40	M6	ø20			ø35	M6	ø15		
BU3F1/1-A(C)19X13C8.1-B		87	148	ø40	M6	ø20			ø35	M6	ø15		
BU3F1/1-A(C)22X13C8.1-B		90	154	ø40	M6	ø20			ø35	M6	ø15		
BU3F1/1-A(C)25X13C8.1-B		92	157.5	ø40	M6	ø20			ø35	M6	ø15		
BU3F1/1-A(C)26X13C8.1-B		92.5	159	ø40	M6	ø20			ø35	M6	ø15		

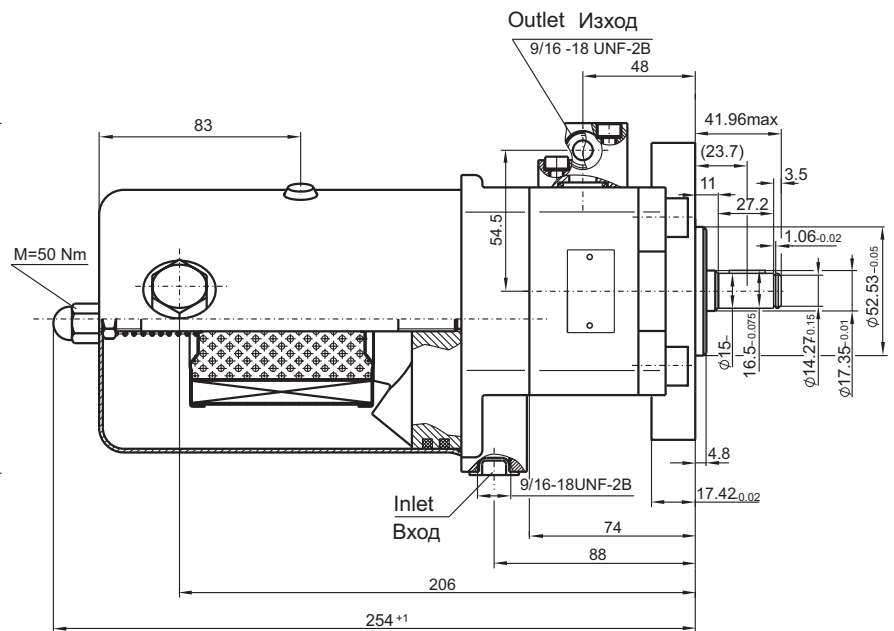
Note: For more information call the company.

Забележка: За повече информация
обърнете се към фирмата.

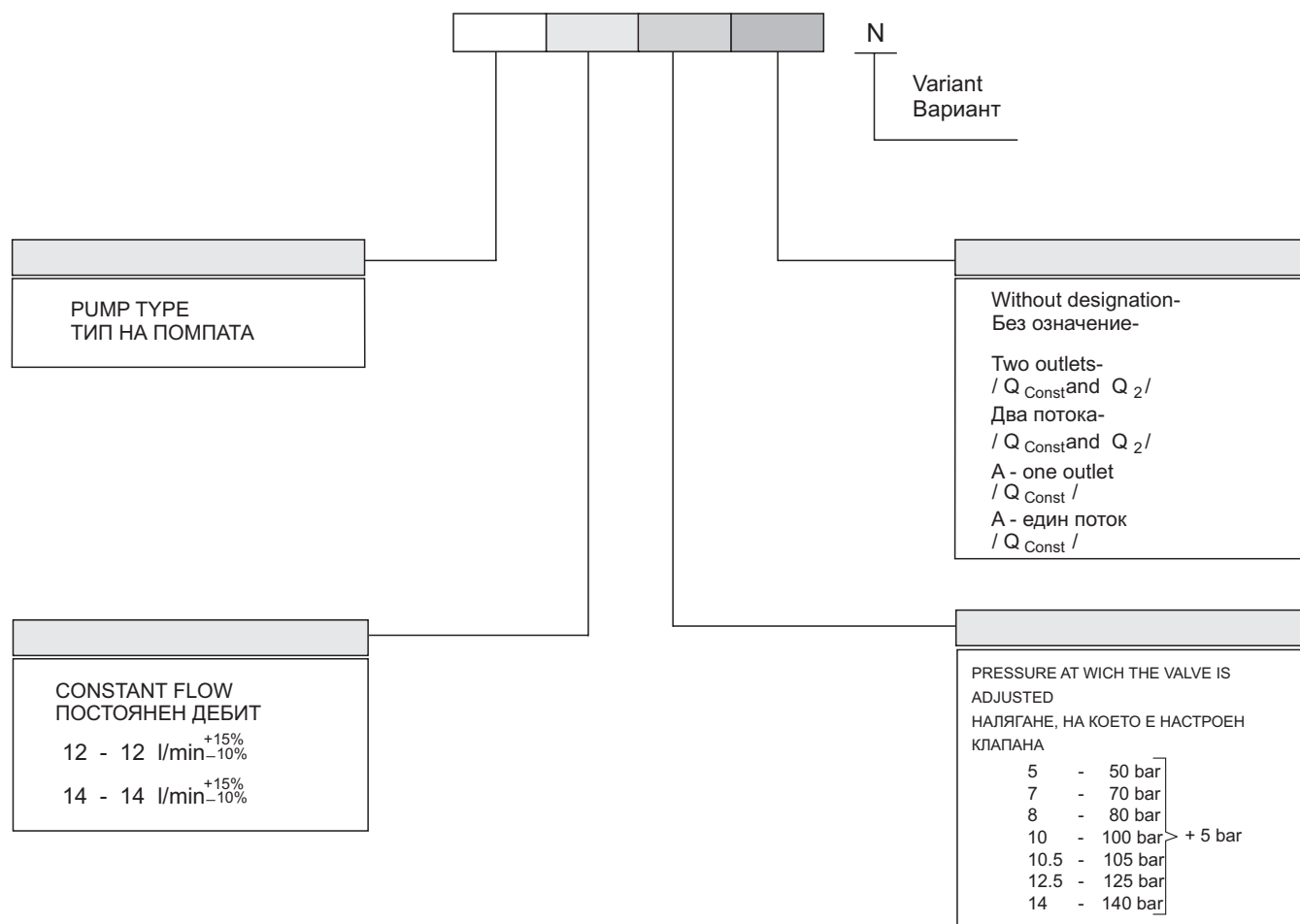
A6XF



Type Тип	Dimensions Размери [mm]		Technical data Технически данни							
	A	B	displacement геом. обем	P _{max}	P _{r.v}	Flow at 1500 min ⁻¹ Дебит при 1500 min ⁻¹	η _{nom}	η _{min}	Tank Резервоар	Filtration Филтрация
A6XF	3/8" 16UNC-28	Ø10.50	6 cm ³	200 bar	105 ± 5 bar	8.5 l/min	1500 min ⁻¹	700 min ⁻¹	1 L	0.040 mm


INDUSTRIALTECHNIC SC

ORDERING CODES / НАЧИН НА ЗАЯВЯВАНЕ



The hydraulic gear pumps with integrated valves and flow driver are purposed for creating the flow with constant pressure and delivery irrespective of the driving speed.

Хидравличните зъбни помпи с вграден предпазен клапан и отделител на дебит са предназначени за нагнетяване потока на работната течност с постоянни показатели независимо от оборотите

Example:

A11X1A1-12/12.5AN-pump type A11X1A1 with a relief valve that is adjusted at 125 bar pressure and flow divider with Q const= 12 l/min; with one output for Q const (the rest of the flow goes back into the pump); variant "N".

Note:

1. The construction of the pump is purposed for assembling to pump type II.
2. The joining and overall dimensions of the valve pump are the result of the assembly of the given types of pump and valve.

Пример::

A11X1A1-12/12.5AN-тип на помпата A11X1A1 с предпазен клапан настроен на налягане 125 bar и отделител на дебит с Qconst =12 l/min, с един поток (остатъчния дебит се връща в помпата), вариант "N".

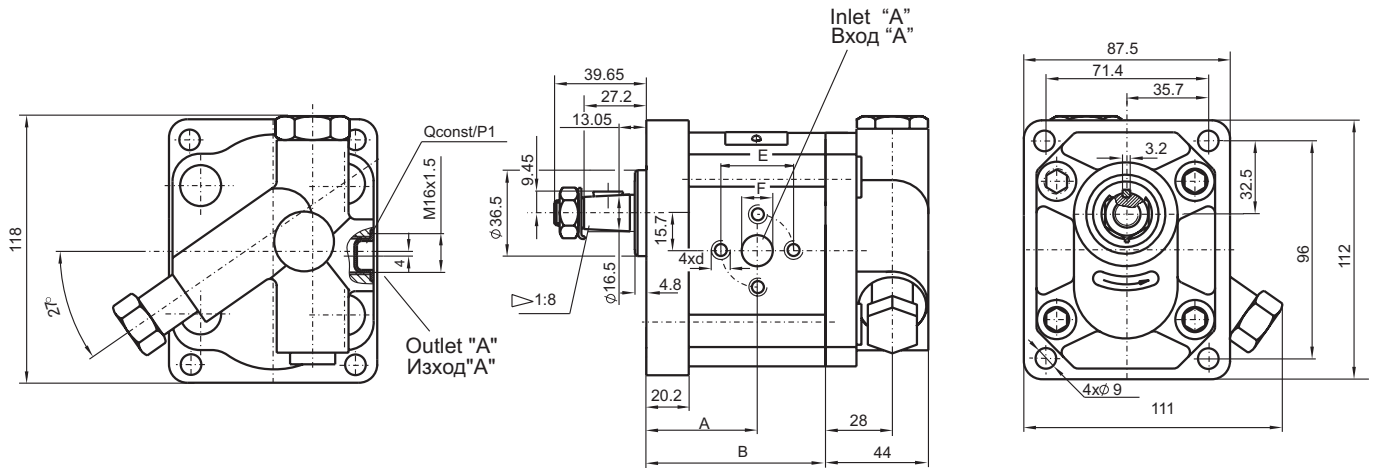
Забележка:

1. Конструкцията на клапана е пригодена за монтаж към тип помпа II гр.
2. Присъединителните и габаритни размери на клапанната помпа са резултат от монтажа на конкретния тип помпа и клапан.

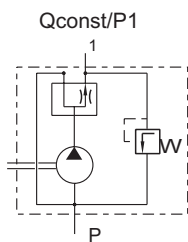
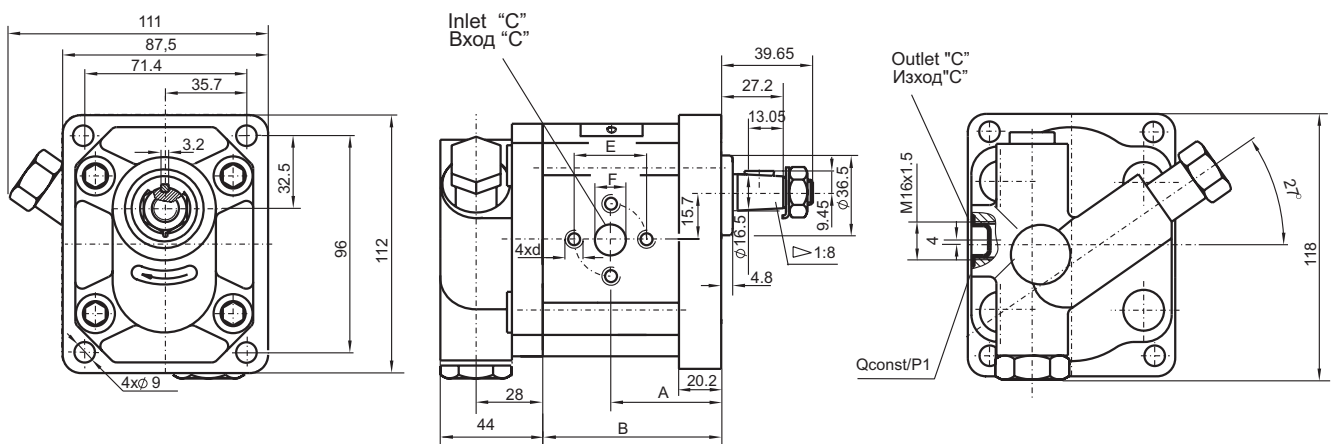
HYDRAULIC GEAR PUMPS /ХИДРАВЛИЧНИ ЗЪБНИ ПОМПИ

HYDRAULIC GEAR PUMPS WITH INTEGRATED VALVES ХИДРАВЛИЧНИ ЗЪБНИ ПОМПИ С ВГРАДЕНИ КЛАПАНИ

A...X2A1-12 / ...AN



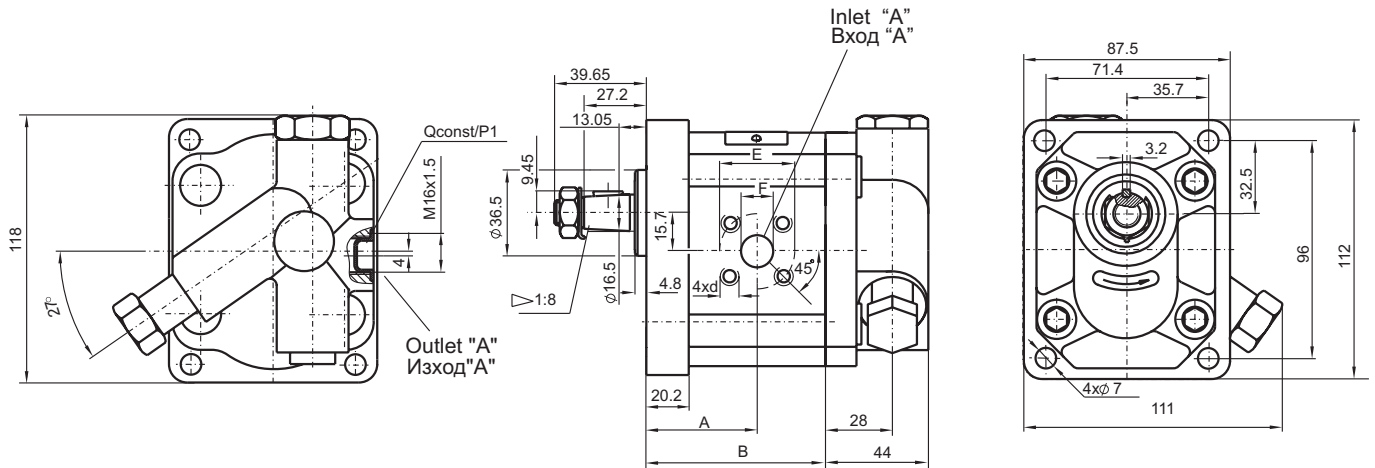
C...X2A1-12 / ...AN



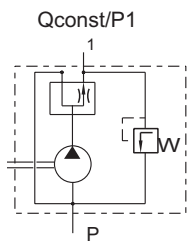
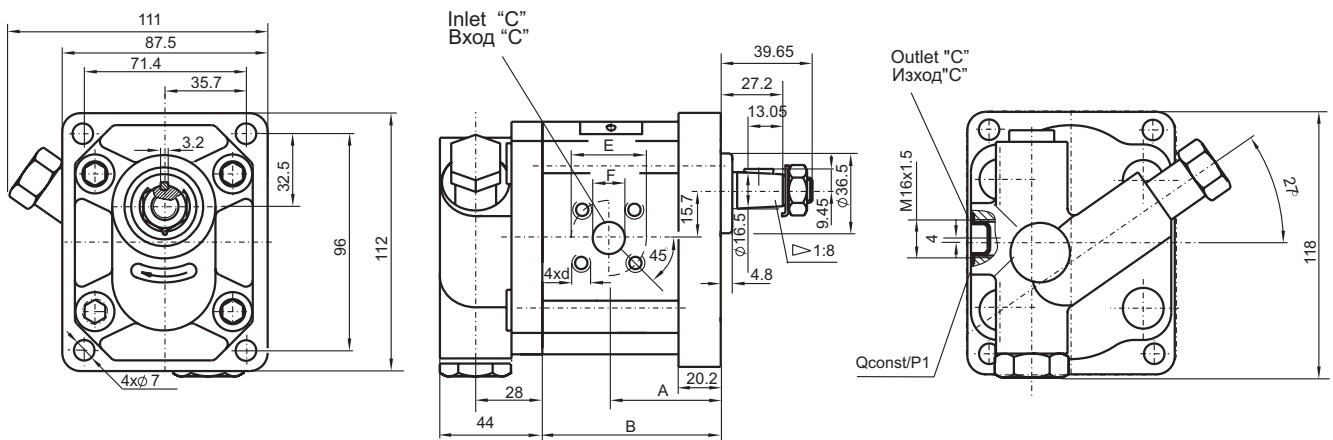
Type	Тип	Dimensions												Technical data			
		Размери [mm]												Технически данни			
		A	B	Inlet				Outlet				Displacement		Pressure P1		Q const	
				E	d	F	M	G	E	d	F	M	G	cm ³	bar	l/min	min ⁻¹
														4			
														5			
														6			
														9			
														10			
A(C)11X2A1-12 / ...AN	A(C)25XA-12 / ...AN	49.2	78.2	Ø39.7	M8	Ø19								11			
														12			
														14			
														15			
														16			
														17			
														19			
														22			
														25			
														26			



A...X1C1-12 / ...AN

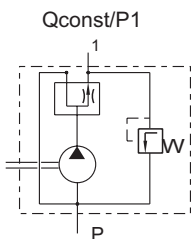
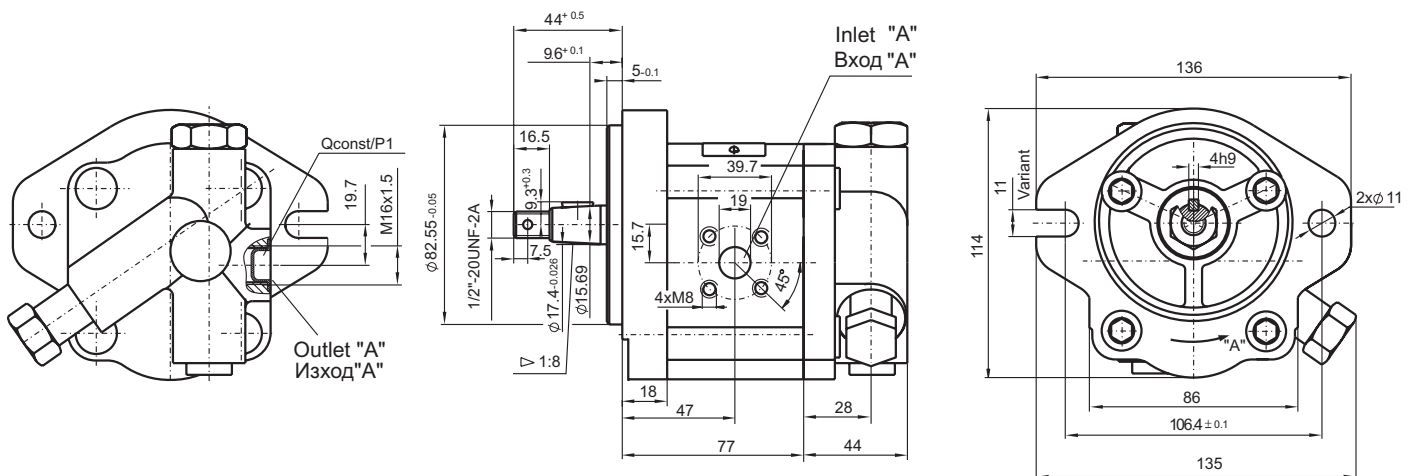


C...X1C1-12 / ...AN

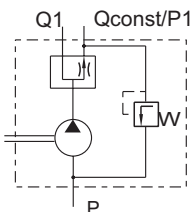
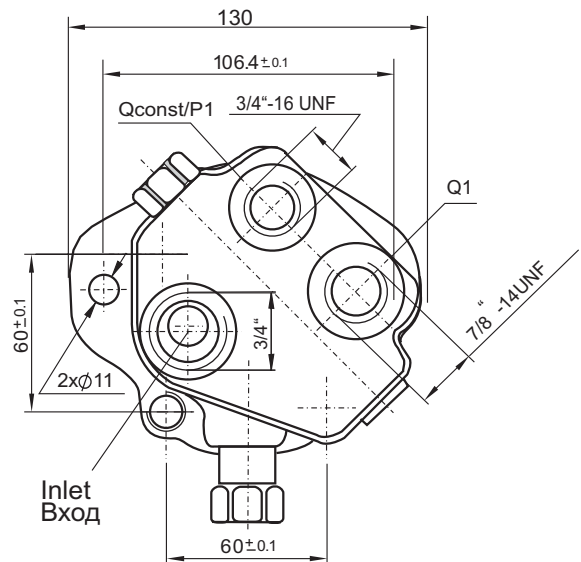


Type Тип		Dimensions Размери [mm]											Technical data Технически данни				
		A	B	Inlet Вход			Outlet Изход					Displacement Геом. обем	Pressure P1 Натискане P1	Q const	Speed Обороти		
				E	d	F	M	G	E	d	F	M	G	cm ³	bar	l/min	min ⁻¹
													4	"12/8AN"-80 "12/12.5AN"-125	+15% 12 — 10%		
													5				
													6				
													9				
													10				
A(C)11X1C1-12/...	ANA(C)25XC-12/...	AN49.2	78.2	Ø40	M6	Ø20							11				1500/3000
													12				
													14				
													15				
													16				
													17				
													19				
													22				
													25				
													26				

A...X04C13-12 /...AN

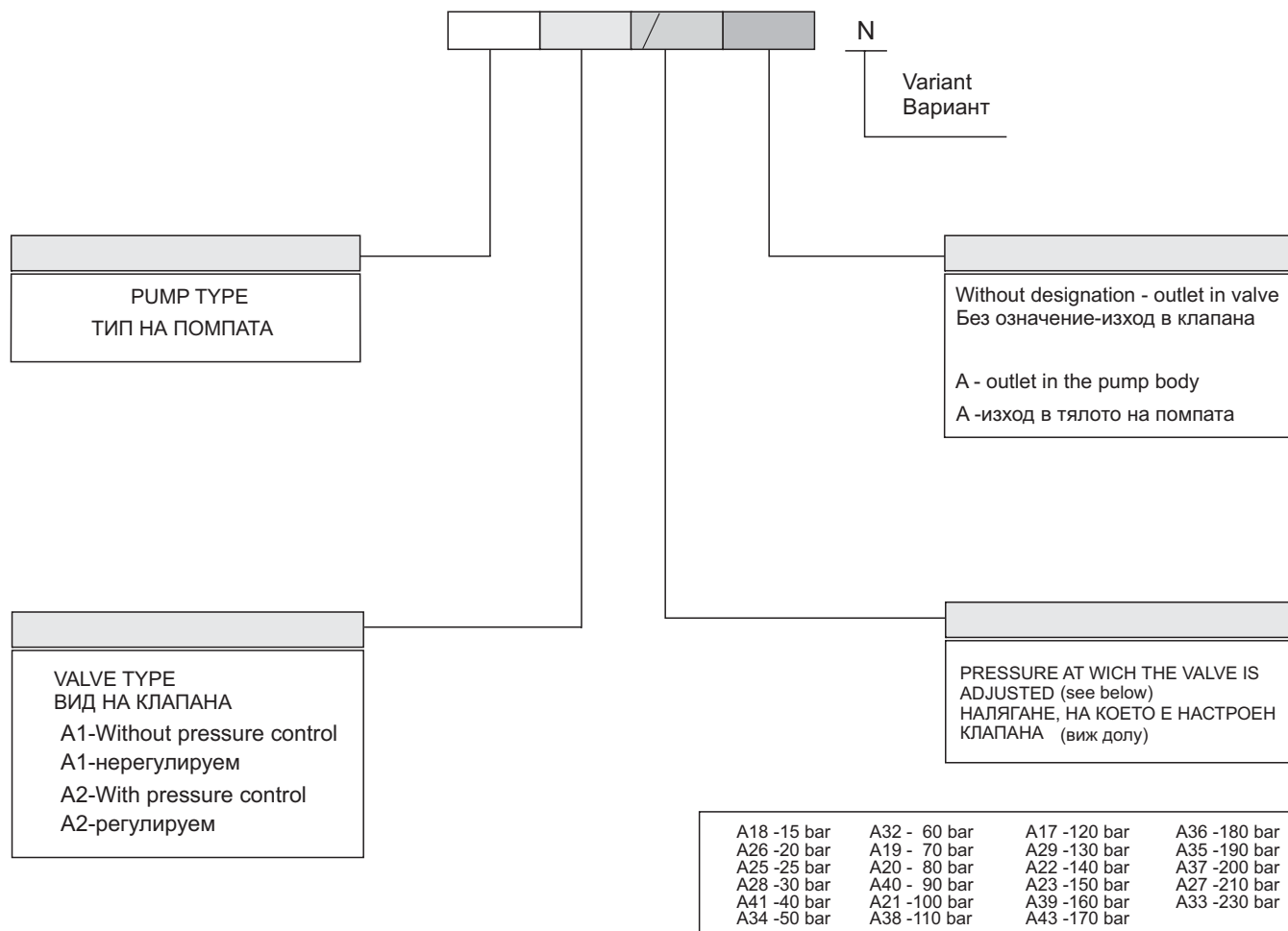


Type Тип		Dimensions Размери [mm]												Technical data		Технически данни		
		A	B	Inlet			Вход		Outlet			Изход		Displacement Геом. обем	Pressure P1 Налягане P1	Q const	Speed Обороти	
				E	d	F	M	G	E	d	F	M	G	cm ³	bar	l/min	min ⁻¹	
														4	"12/8AN"-80 "12/12.5AN"-125	+15% 12 – 10%	1500/3000	
														5				
														6				
														9				
														10				
A11X04C13-12 /...AN	A25X-12 /...AN-SAE	47	76	Ø39.7	M8	Ø12								11				
														12				
														14				
														15				
														16				
														17				
														19				
														22				
														25				
														26				



Type Тип		Dimensions Размери [mm]												Technical data		Технически данни	
		A	B	Inlet Вход			Outlet Изход						Displacement Геом. обем	Pressure P1 Налягане P1	Q const	Speed Обороти	
				E	d	F	M	G	E	d	F	M					G
														cm³	bar	l/min	min ⁻¹
														4	105±5	14 ± 15%	
														5			
														6			
														9			
														10			
														11			
														12			
														14			
														15			
														16			
														17			
C19X4W2R-14/10.5M		118.7	188.7											19			1000/2500
														22			
														25			
														26			

ORDERING CODES / НАЧИН НА ЗАЯВЯВАНЕ



Example:
A11X1A1-A1/A17N-hydraulic gear pump
A11X1A1 with relief valve A1/A17 constant pressure 120 bar.
Variant "N"

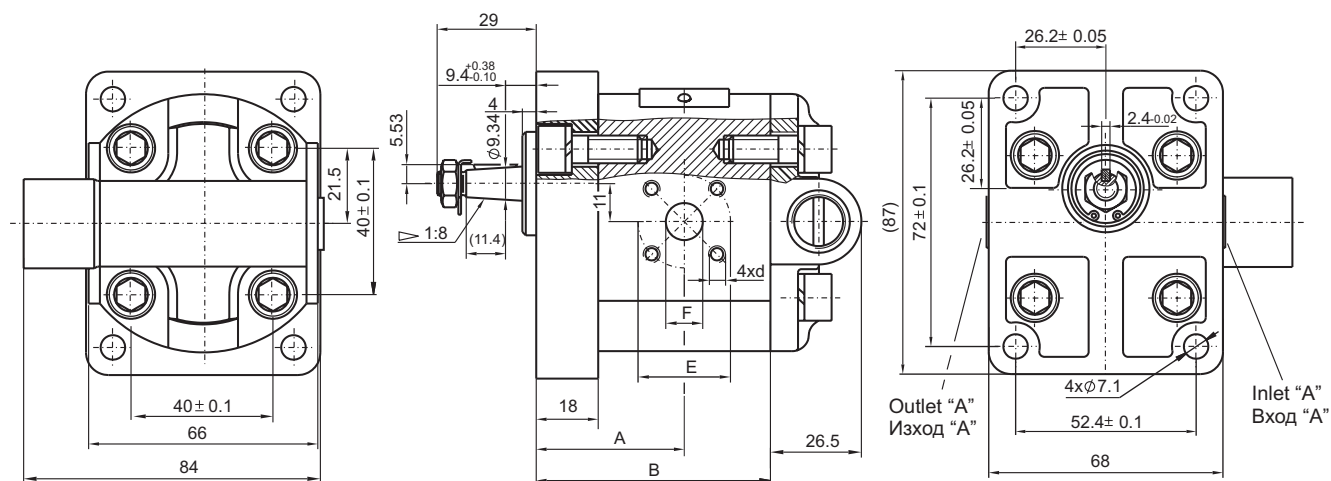
Note:
1. The construction of the pump is purposed for assembling to pump type II.
2. The joining and overall dimensions of the valve pump are the result of the assembly of the given types of pump and valve.

Пример:
A11X1A1-A1/A17N-хидравлична зъбна помпа тип A11X1A1 с вграден предпазен нерегулируем клапан A1/A17 настроен на налягане 120 bar вариант "N".

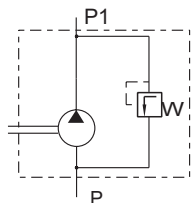
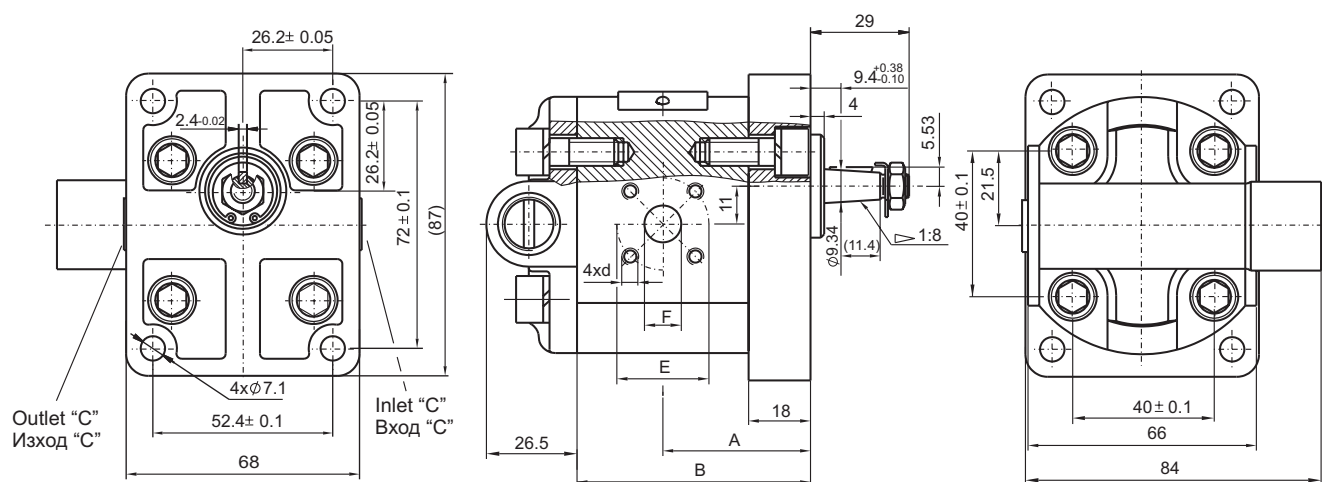
Забележка:
1. Конструкцията на клапана е пригодена за монтаж към тип помпа II гр.
2. Присъединителните и габаритни размери на клапанната помпа са резултат от монтажа на конкретния тип помпа и клапан.

HYDRAULIC GEAR PUMPS WITH INTEGRATED VALVES
ХИДРАВЛИЧНИ ЗЪБНИ ПОМПИ С ВГРАДЕНИ КЛАПАНИ

A...X1C1-A2/ A...A



C...X1C1-A2 / A...A

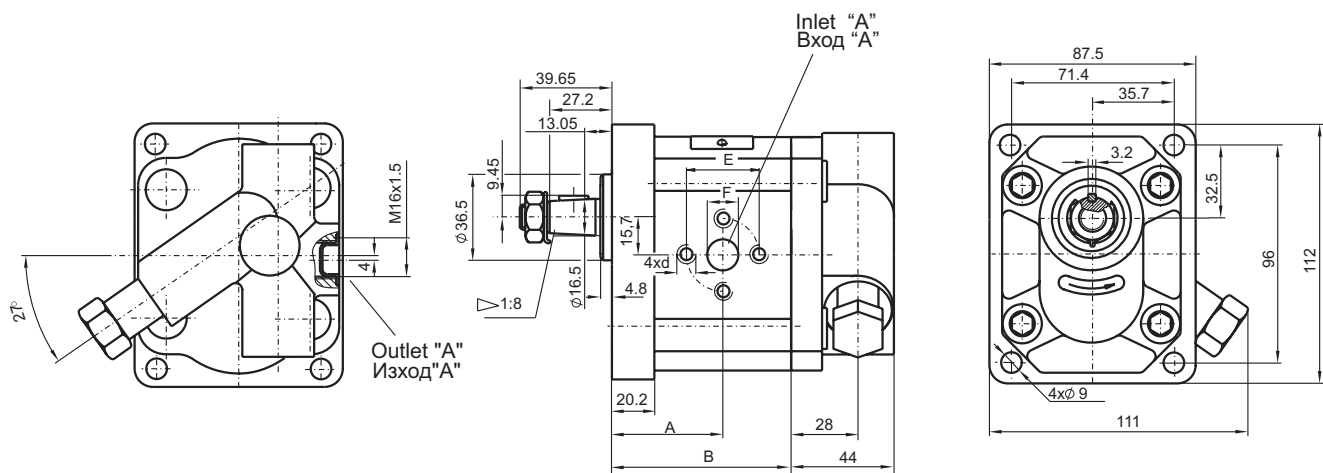


Type Тип		Dimensions Размери [mm]											Technical data Технически данни			
		A	B	Inlet Вход				Outlet Изход				Displacement Геом. обем	Pressure P1 Налягане P1	Q const	Speed Обороти	
				E	d	F	M	G	E	d	F	M	G	cm³	bar	l/min
A(C)1X1C1-A2/A...A	39.5	60.6	ø30	M6	ø12			ø30	M6	ø12			1	A2/A1A" - 70...180 A2/A2A" - 40...100		700/3500
A(C)1.25X1C1-A2/A...A	39.9	61.6	ø30	M6	ø12			ø30	M6	ø12			1.25			700/3500
A(C)1.6X1C1-A2/A...A	40.3	62.6	ø30	M6	ø12			ø30	M6	ø12			1.6			700/3500
A(C)2X1C1-A2/A...A	41.1	64.2	ø30	M6	ø12			ø30	M6	ø12			2			700/3500
A(C)2.5X1C1-A2/A...A	42.1	66.2	ø30	M6	ø12			ø30	M6	ø12			2.5			700/3500
A(C)3.15X1C1-A2/A...A	43.5	68.8	ø30	M6	ø12			ø30	M6	ø12			3.15			700/3500
A(C)3.65X1C1-A2/A...A	44.4	70.8	ø30	M6	ø12			ø30	M6	ø12			3.65			700/3500
A(C)4.2X1C1-A2/A...A	45.5	73.1	ø30	M6	ø12			ø30	M6	ø12			4.2			700/3000
A(C)5.1X1C1-A2/A...A	47.1	76.2	ø30	M6	ø12			ø30	M6	ø12			5			700/3000
A(C)5.7X1C1-A2/A...A	48.5	79.1	ø30	M6	ø12			ø30	M6	ø12			5.7			700/2500
A(C)6.1X1C1-A2/A...A	49.4	80.8	ø30	M6	ø12			ø30	M6	ø12			6.1		700/2500	

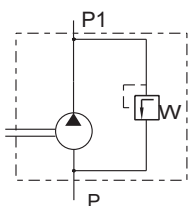
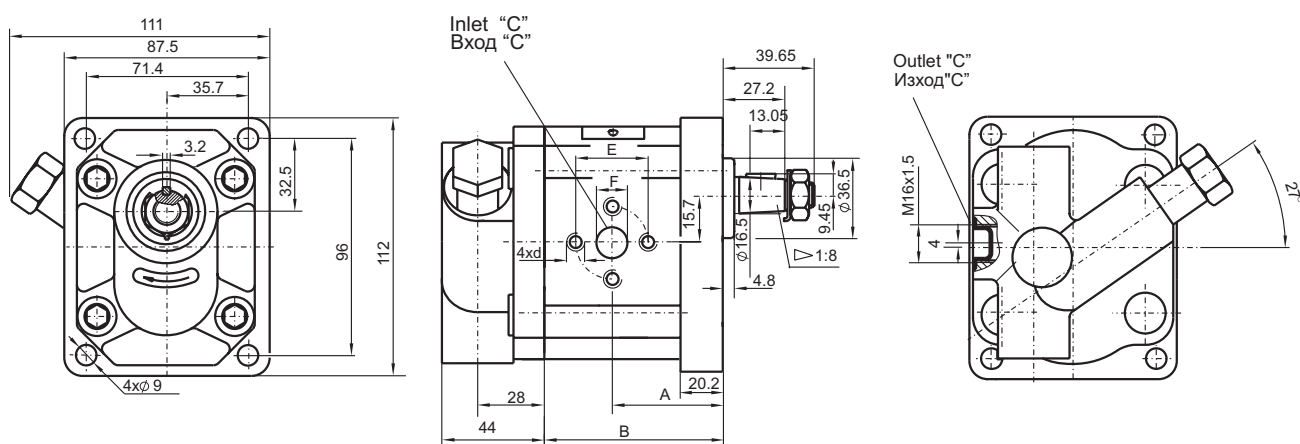
HYDRAULIC GEAR PUMPS /ХИДРАВЛИЧНИ ЗЪБНИ ПОМПИ

HYDRAULIC GEAR PUMPS WITH INTEGRATED VALVES ХИДРАВЛИЧНИ ЗЪБНИ ПОМПИ С ВГРАДЕНИ КЛАПАНИ

A...X2A1-A1/A17N



C...X2A1-A1/A17N



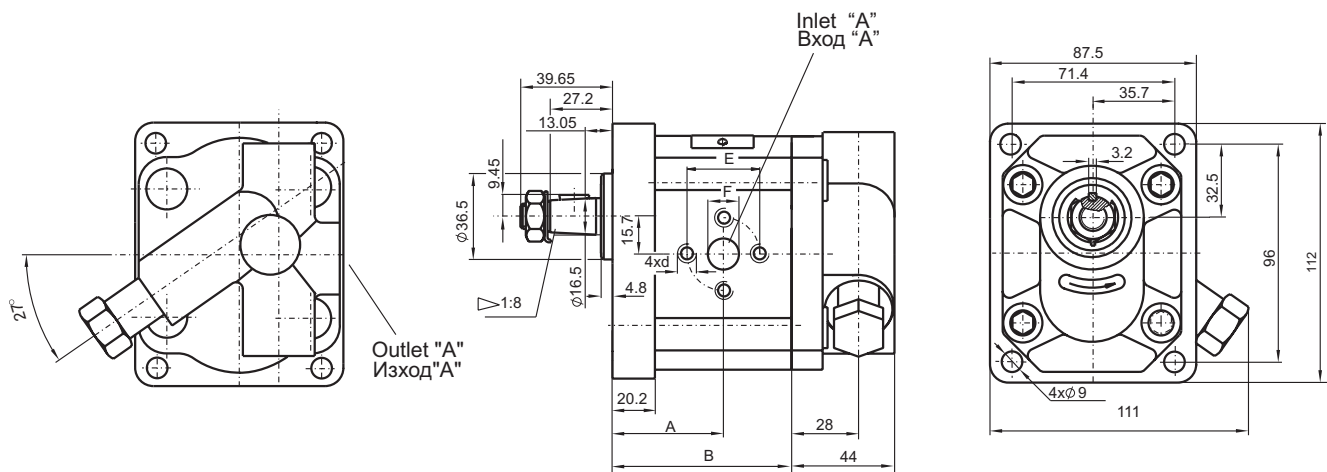
Type Тип		Dimensions Размери [mm]												Technical data Технически данни					
		A	B	Inlet Вход			Outlet Изход					Displacement Геом. обем	Pressure P1 Налягане P1	Q const	Speed Обороти				
				E	d	F	M	G	E	d	F	M	G	cm ³	bar	l/min	min ⁻¹		
														4	"A1/A17N"-120 +5				
														5					
														6					
														9					
														10					
A(C)11X2A1-A1/A17N	NA(C)25XA-A1/A17N	49.2	78.2	Ø39.7	M8	Ø19								11					700/3500
														12					
														14					
														15					
A(C)16X2A1-A1/A17N		53.7	87.2	Ø39.7	M8	Ø19								16					700/3000
														17					
														19					
														22					
														25					
														26					



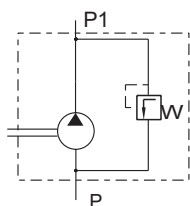
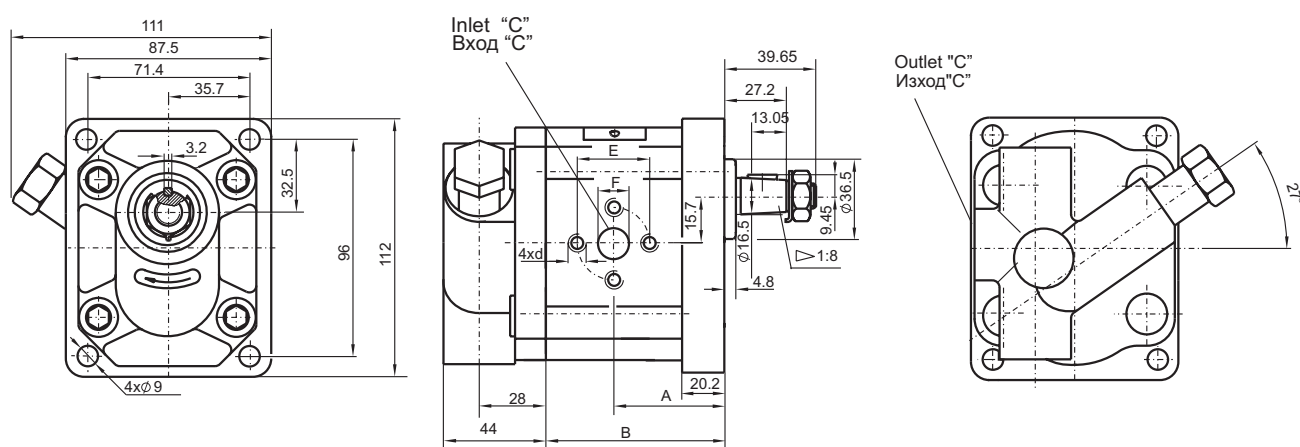
HYDRAULIC GEAR PUMPS /ХИДРАВЛИЧНИ ЗЪБНИ ПОМПИ

HYDRAULIC GEAR PUMPS WITH INTEGRATED VALVES ХИДРАВЛИЧНИ ЗЪБНИ ПОМПИ С ВГРАДЕНИ КЛАПАНИ

A...X2A1-A1/A...AN



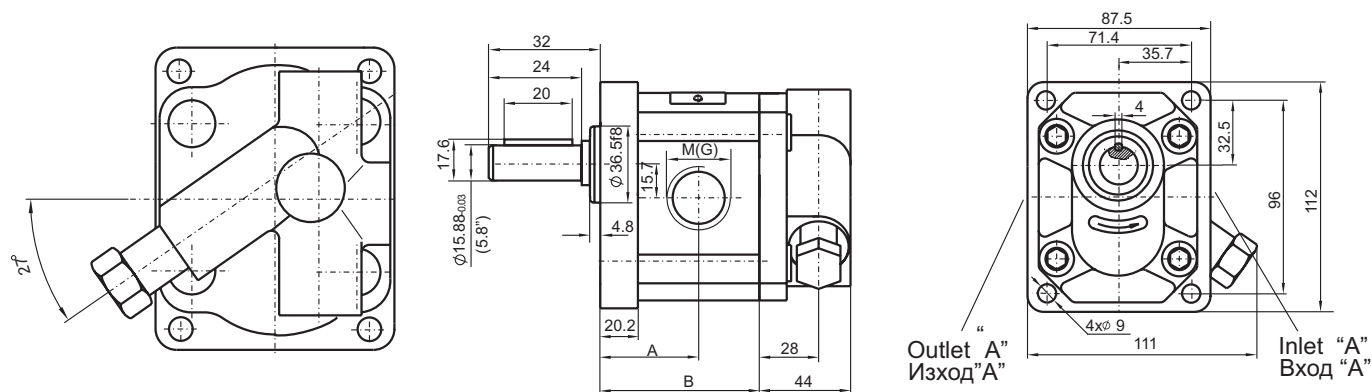
C...X2A1-A1/A...AN



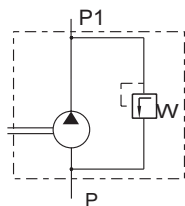
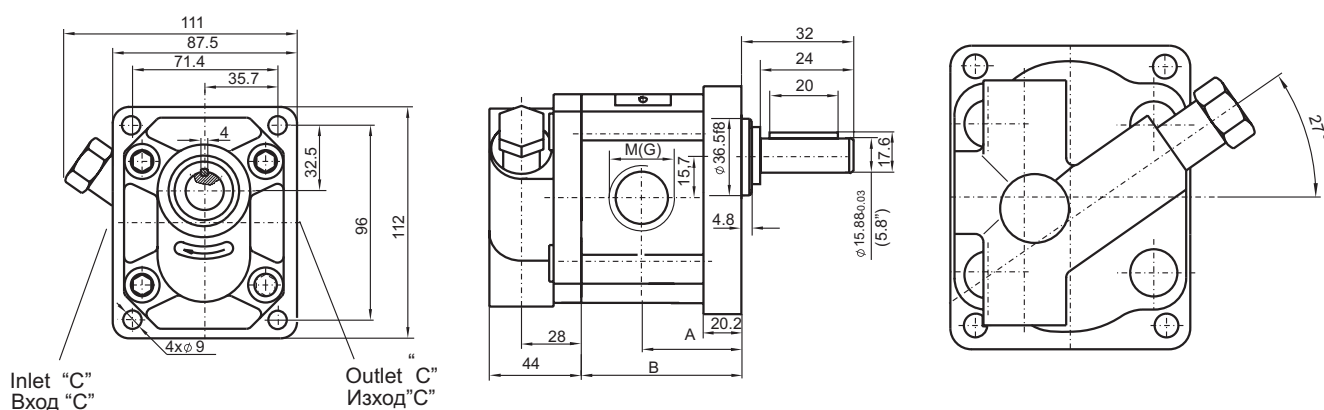
Type Тип		Dimensions Размери [mm]												Technical data Технически данни			
		A	B	Inlet Вход			Outlet Изход					Displacement Геом. обем	Pressure P1 Налягане P1	Q const	Speed Обороти		
				E	d	F	M	G	E	d	F					M	G
													cm ³	bar	l/min	min ⁻¹	
													4	"A1/A17AN"-120*5	"A1/A23AN"-150*5		
													5				
													6				
													9				
													10				
A(C)11X2A1-A1/A...AN	A(C)25XA-A1/A...AN	49.2	78.2	Ø39.7	M8	Ø19			Ø30.2	M6	Ø14.2		11				
													12				
													14				
													15				
A(C)16X2A1-A1/A...AN		53.7	87.2	Ø39.7	M8	Ø19			Ø30.2	M6	Ø14.2		16				
													17	"A1/A17AN"-120*5	"A1/A23AN"-150*5	700/3000	
													19				
													22				
													25				
													26				



A...X2...4-A1/A...AN



C...X2...4-A1/A...AN

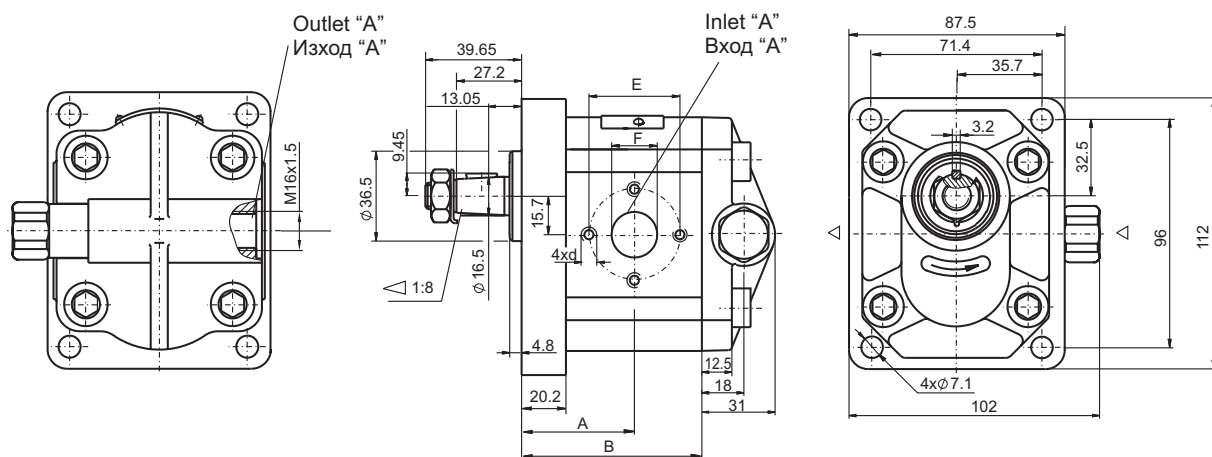


Type Тип		Dimensions Размери [mm]										Technical data Технически данни					
		A	B	Inlet Вход				Outlet Изход				Displacement Геом. обем	Pressure P1 Налягане P1	Q const	Speed Обороти		
				E	d	F	M	G	E	d	F					M	G
A(C)4X2...4-A1/A...AN		43.7	67.2				M20x1.5	G1/2"				M16x1.5	G1/2"	4	A1/A17AN"120 A1/A23AN"150		700/3500
A(C)5X2...4-A1/A...AN		44.5	68.7				M20x1.5	G1/2"				M16x1.5	G1/2"	5			700/3500
A(C)6X2...4-A1/A...AN		45.2	70.2				M20x1.5	G1/2"				M16x1.5	G1/2"	6			700/3500
A(C)9X2...4-A1/A...AN		47.2	74.2				M20x1.5	G1/2"				M16x1.5	G1/2"	9			700/3500
A(C)10X2...4-A1/A...AN		48.2	76.2				M20x1.5	G1/2"				M16x1.5	G1/2"	10			700/3500
A(C)11X2...4-A1/A...AN		49.2	78.2				M20x1.5	G1/2"				M16x1.5	G1/2"	11			700/3500
A(C)12X2...4-A1/A...AN		50.2	80.2				M20x1.5	G1/2"				M16x1.5	G1/2"	12			700/3500
A(C)14X2...4-A1/A...AN		52.2	84.2				M20x1.5	G1/2"				M16x1.5	G1/2"	14			700/3500
A(C)15X2...4-A1/A...AN		53	85.7				M20x1.5	G1/2"				M16x1.5	G1/2"	15			700/3000
A(C)16X2...4-A1/A...AN		53.7	87.2				M20x1.5	G1/2"				M16x1.5	G1/2"	16			700/3000
A(C)17X2...4-A1/A...AN		54.2	88.2				M20x1.5	G1/2"				M16x1.5	G1/2"	17			700/3000
A(C)19X2...4-A1/A...AN		56.2	92.2				M20x1.5	G1/2"				M16x1.5	G1/2"	19			700/2500
A(C)22X2...4-A1/A...AN		59.2	98.2				M20x1.5	G1/2"				M20x1.5	G1/2"	22		700/2500	
A(C)25X2...4-A1/A...AN		61	101.7				M20x1.5	G1/2"				M20x1.5	G1/2"	25		700/2000	
A(C)26X2...4-A1/A...AN		61.7	103.7				M20x1.5	G1/2"				M20x1.5	G1/2"	26		700/2000	

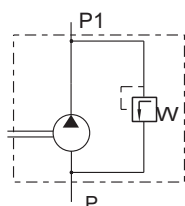
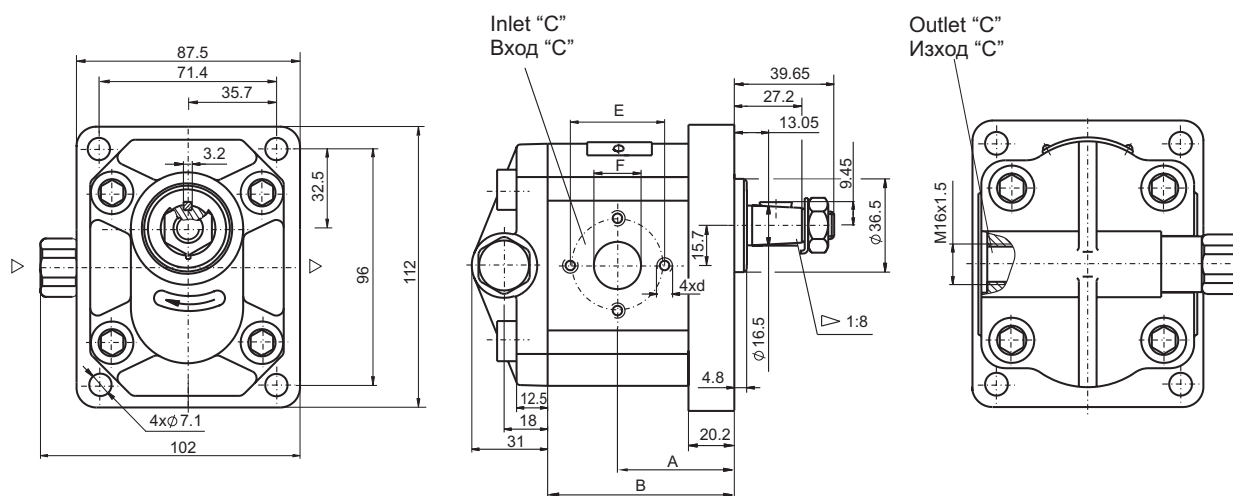
A(C)...X2M4-A1/A...AN - metric thread/с метрична резба "M"
A(C)...X2T4-A1/A...AN - GAS thread/с тръбна резба "G"

HYDRAULIC GEAR PUMPS WITH INTEGRATED VALVES
ХИДРАВЛИЧНИ ЗЪБНИ ПОМПИ С ВГРАДЕНИ КЛАПАНИ

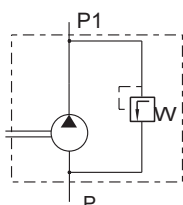
A...X1A1-A1/A...LN



C...X1A1-A1/A...LN



Type Тип	Dimensions Размери [mm]											Technical data Технически данни				
	A	B	Inlet Вход					Outlet Изход					Displacement Геом. обем	Pressure P1 Налягане P1	Q const	Speed Обороти
			E	d	F	M	G	E	d	F	M	G				
A(C)4X1A1-A1/A...LN													cm³	bar	l/min	min⁻¹
A(C)5X1A1-A1/A...LN													4	A 1/A17LN"-120 A 1/A23LN"-150		700/3500
A(C)6X1A1-A1/A...LN													5			
A(C)9X1A1-A1/A...LN													6			
A(C)10X1A1-A1/A...LN													9			
A(C)11X1A1-A1/A...LN													10			
A(C)12X1A1-A1/A...LN	49.2	78.2	ø39.7	M8	ø19								11			700/3500
A(C)14X1A1-A1/A...LN													12			
A(C)15X1A1-A1/A...LN													14			
A(C)16X1A1-A1/A...LN													15			
A(C)17X1A1-A1/A...LN													16			
A(C)19X1A1-A1/A...LN													17			
A(C)19X1A1-A1/A...LN	56.2	92.2	ø39.7	M8	ø19								19		700/2500	
A(C)22X1A1-A1/A...LN	59.2	98.2	ø39.7	M8	ø19								22		700/2500	
A(C)25X1A1-A1/A...LN													25			
A(C)26X1A1-A1/A...LN													26			

[illegible][illegible]

Type Тип	Dimensions Размери [mm]												Technical data Технические данные			
	A	B	Inlet Вход					Outlet Изход					Displacement Геом. объем	Pressure P1 Налягане P1	Q const	Speed Обороты
			E	d	F	M	G	E	d	F	M	G	cm ³	bar	l/min	min ⁻¹
A(C)4X2A1-A1/A...ALN													4	A1/A17LN"-120 A1/A23LN"-150		700/3500
A(C)5X2A1-A1/A...ALN													5			
A(C)6X2A1-A1/A...ALN													6			
A(C)9X2A1-A1/A...ALN													9			
A(C)10X2A1-A1/A...ALN													10			
A(C)11X2A1-A1/A...ALN	49.2	78.2	Ø39.7	M8	Ø19			Ø30.2	M6	Ø14.2			11			700/3500
A(C)12X2A1-A1/A...ALN													12			
A(C)14X2A1-A1/A...ALN													14			
A(C)15X2A1-A1/A...ALN													15			
A(C)16X2A1-A1/A...ALN													16			
A(C)17X2A1-A1/A...ALN													17			
A(C)19X2A1-A1/A...ALN	56.2	92.2	Ø39.7	M8	Ø19			Ø30.2	M6	Ø14.2			19		700/2500	
A(C)22X2A1-A1/A...ALN	59.2	98.2	Ø39.7	M8	Ø19			Ø30.2	M6	Ø14.2			22		700/2500	
A(C)25X2A1-A1/A...ALN													25			
A(C)26X2A1-A1/A...ALN													26			

ORDERING CODES / НАЧИН НА ЗАЯВЯВАНЕ

III-IV-V GR. - 175 bar						
Type / Size Тип / Размер						
Direction of rotation: / Viewed from the side of the shaft / A - counter - clockwise C - clockwise Посока на въртене: /Погледнато от страна на вала/ A - обратно на часовникова- та стрелка C - по посока на часовникова- та стрелка						
Group: 30 (III group - 250 bar) Група: 30 (III група - 250 bar)						
Number of the modification Номер на модификацията						
		Body type: Without designation - with flanges T - with pipe thread TM - with metric thread W - The body has no openings. The input and output openings are located on the back cover. Тип на телата: Без означение - с фланци Т - с цолова резба ТМ - с метрична резба W - Тялото няма отвори. Отворите на входа и изхода се намират на задния капак.				
		Outlet of the driving shaft: X - through the front cover Y - through both covers Z - through the back cover Изход на водещия вал: X - През преден капак Y - През преден и заден капак Z - През заден капак				
		Displacement [cm ³] Работен обем				
III GR. - 250 bar		30				Variant Вариант

Example:

175 bar: C54XTM - Gear pump third group, direction of rotation clockwise, displacement 24,5 cm³, shaft outlet throughout the front cover, modification TM.

250 bar: 30A25X068N - Gear pump-third group, direction of rotation-counter-clockwise, displacement 25 cm³, shaft outlet through the front cover, modification 068, variant "N".

Пример:

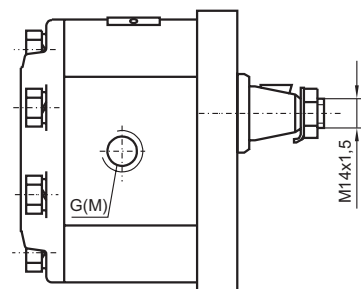
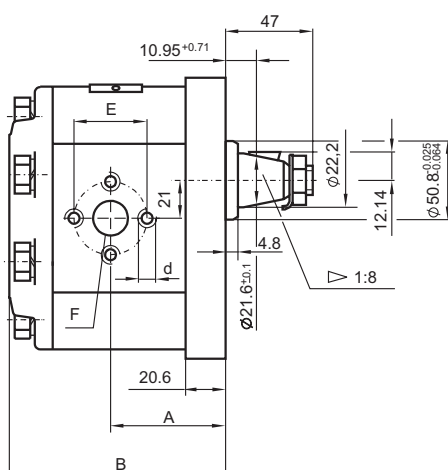
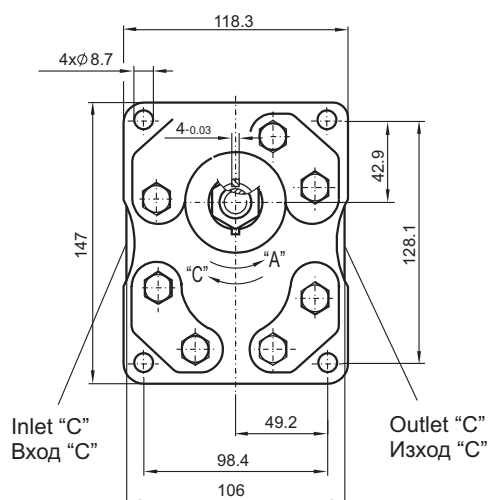
175 bar: C54XTM - Зъбна помпа от трета група, посока на въртене по часовникова-та стрелка, работен обем 24,5 cm³, изход на вала в предния капак. Модификация TM.

250 bar: 30A25X068N
Зъбна помпа от трета група, посока на въртене на вала - обратна на часовниковата стрелка, работен обем 25 cm³, изход на вала от предния капак, модификация 068, вариант "N".

Technical data		Технически данни				
Type size Типоразмер		43	54	72	80	94
Working volume Работен обем	cm ³	19.5	24.5	32.7	36	42.6
Rated pressure Номинално налягане	bar	175	175	175	150	125
Max. Pressure Максимално налягане	bar	200	200	200	175	150
Min. speed Мин. честота на въртене	min ⁻¹	700	700	700	700	700
Max. speed Макс. честота на въртене	min ⁻¹	2500	2500	2500	2500	2500

variant "X" (without designation
без обозначения)

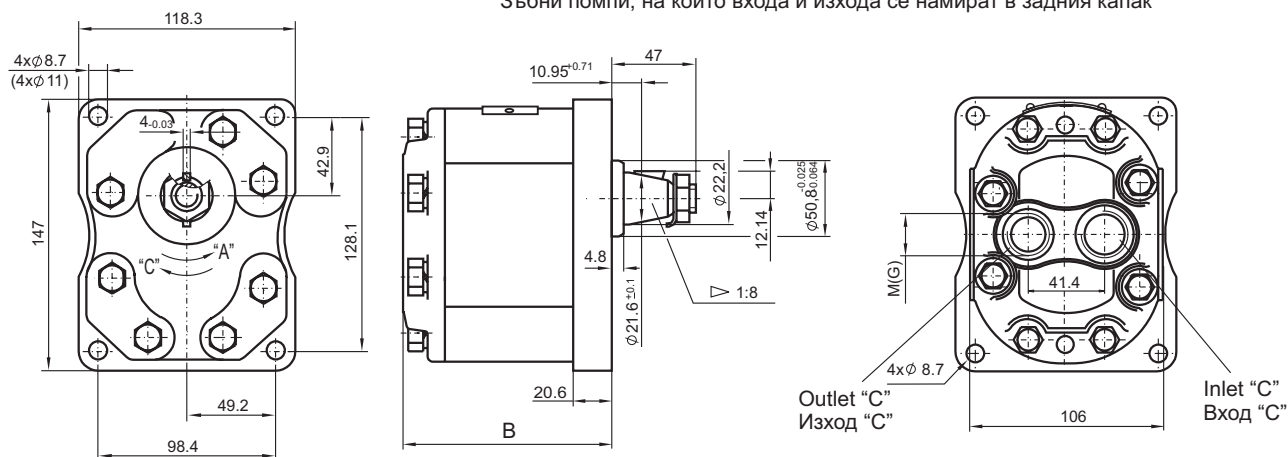
variant "XT" (XTM)



Type Тип	Dimensions Размери [mm]											
	Inlet Вход						Outlet Изход					
	A	B	F	d	E	G	M	F	d	E	G	M
A(C)43X...	52	106	19	M8	39.7	G 3/4"	M27x1.5	19	M8	39.7	G 3/4"	M27x1.5
A(C)54X...	52	106	19	M8	39.7	G 3/4"	M27x1.5	19	M8	39.7	G 3/4"	M27x1.5
A(C)72X...	60	122	27	M10	50.8	G 1	M33x1.5	19	M8	39.7	G 3/4"	M27x1.5
A(C)80X...	61.5	125	27	M10	50.8	G 1	M33x1.5	19	M8	39.7	G 3/4"	M27x1.5
A(C)94X...	60	122	27	M10	50.8	G 1	M33x1.5	19	M8	39.7	G 3/4"	M27x1.5

A(C)...XW

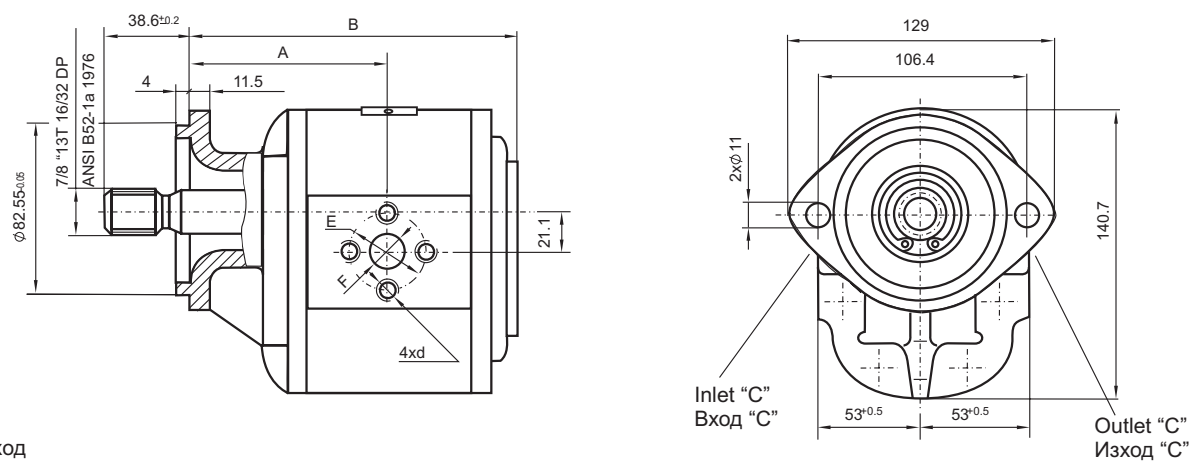
Gear pumps with input and output openings located on the back cover
Зъбни помпи, на които входа и изхода се намират в задния капак



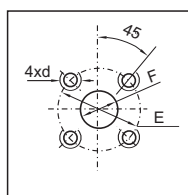
Type Тип	Dimensions Размери [mm]											
	A	B	Inlet Вход					Outlet Изход				
						T	TM				T	TM
			F	d	E	G	M	F	d	E	G	M
A(C)54X...		116					M27x1.5					M22x1.5
A(C)72X...		122				G3/4"	M27x1.5				G 3/4"	M27x1.5

A(C)72XWTM - metric thread
A(C)72XWT - "GAS" thread

A(C)...X-SAE

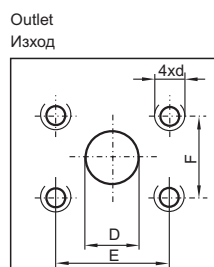


Inlet / Вход



Type Тип	Dimensions Размери [mm]											
	A	B	Inlet Вход					Outlet Изход				
						T	TM				T	TM
			F	d	E	G	M	F	d	E	G	M
								M8/5/16-18UNC-2B				
A(C)72X-SAE	100.35	161.6	Ø27	M10	Ø50.8		Ø19			Ø39.7		

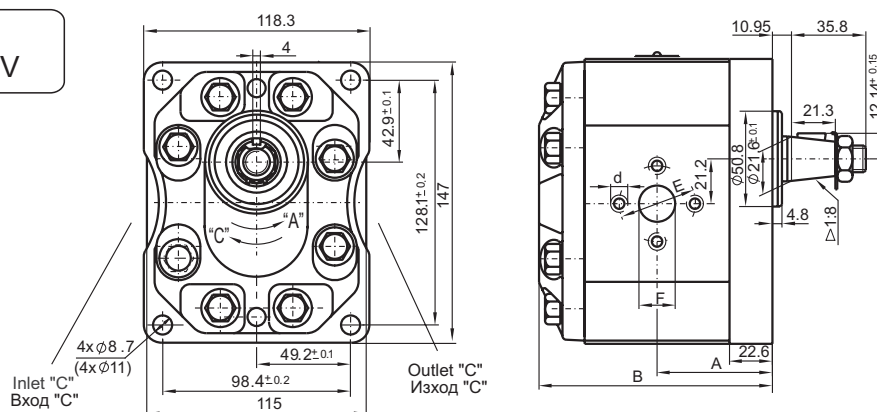
30A(C) 002N
30A(C) 002NV



Type Тип	Dimensions Размери [mm]												
	Displacement Геометричен обем cm³	A	B	Inlet Вход					Outlet Изход				
				E	d	F	M	G	E	d	F	D	G
30A(C)20X002N	20	56.1	113.7	Ø39.7	M8	Ø19			37.6	M8	22.2	Ø19	
30A(C)25X002N	25	58.3	118.1	Ø39.7	M8	Ø19			37.6	M8	22.2	Ø19	
30A(C)28X002N	28	60.2	121.7	Ø39.7	M8	Ø19			37.6	M8	22.2	Ø19	
30A(C)32X002N	32	62	125.3	Ø50.8	M10	Ø27			37.6	M8	22.2	Ø19	
30A(C)36X002N	36	63.5	128.4	Ø50.8	M10	Ø27			37.6	M8	22.2	Ø19	
30A(C)42X002N	42	66.4	134.1	Ø50.8	M10	Ø27			37.6	M8	22.2	Ø19	
30A(C)46X002N	46	68.2	137.8	Ø50.8	M10	Ø27			37.6	M8	22.2	Ø19	
30A(C)50X002N	50	70	141.4	Ø50.8	M10	Ø27			37.6	M8	22.2	Ø19	
30A(C)55X002N	55	72.2	145.9	Ø50.8	M10	Ø27			37.6	M8	22.2	Ø19	
30A(C)63X002N	63	76	153.4	Ø61.9	M12	Ø33.5			52.4	M8	26.2	Ø22	

GROUP 30 / ГРУПА 30

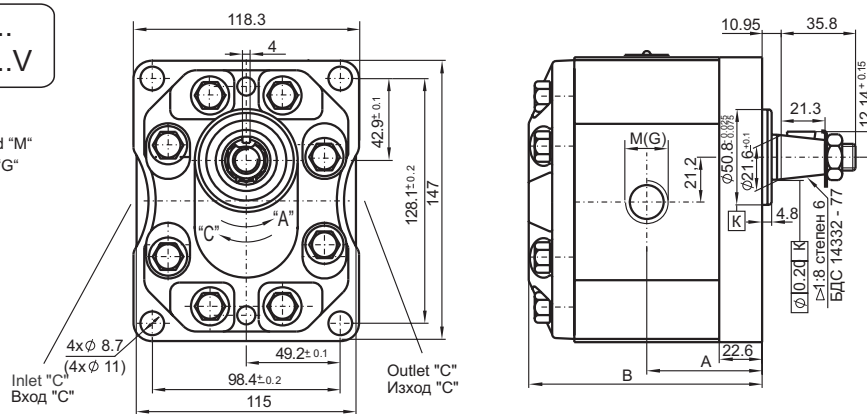
30A(C) X068N
30A(C) X068NV



Type Тип	Dimensions Размери [mm]												
	Displacement Геометричен обем cm³	A	B	Inlet Вход					Outlet Изход				
				E	d	F	M	G	E	d	F	M	G
30A(C)20X068N	20	56.1	113.7	Ø39.7	M8	Ø19			Ø39.7	M8	Ø19		
30A(C)25X068N	25	58.3	118.1	Ø39.7	M8	Ø19			Ø39.7	M8	Ø19		
30A(C)28X068N	28	60.2	121.7	Ø39.7	M8	Ø19			Ø39.7	M8	Ø19		
30A(C)32X068N	32	62	125.3	Ø50.8	M10	Ø27			Ø39.7	M8	Ø19		
30A(C)36X068N	36	63.5	128.4	Ø50.8	M10	Ø27			Ø39.7	M8	Ø19		
30A(C)42X068N	42	66.4	134.1	Ø50.8	M10	Ø27			Ø39.7	M8	Ø19		
30A(C)46X068N	46	68.2	137.8	Ø50.8	M10	Ø27			Ø39.7	M8	Ø19		
30A(C)50X068N	50	70	141.4	Ø50.8	M10	Ø27			Ø39.7	M8	Ø19		
30A(C)55X068N	55	72.2	145.9	Ø50.8	M10	Ø27			Ø39.7	M8	Ø19		
30A(C)63X068N	63	76	153.5	Ø61.9	M12	Ø33.5			Ø50.8	M10	Ø27		

30A(C) X068N...
30A(C) X068N...V

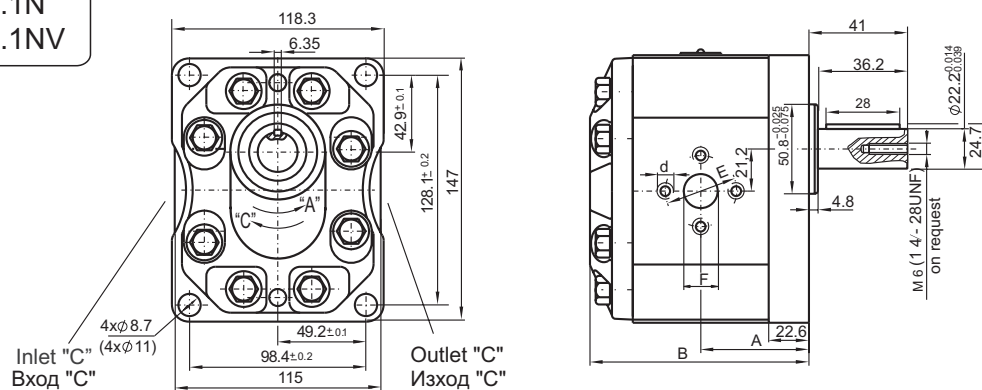
30A(C)...X068NM(V) - metric thread "M"
30A(C)...X068NT(V) - GAS thread "G"



Type Тип	Dimensions Размери [mm]														
	Displacement Геометричен обем cm³	A	B	Inlet			Вход			Outlet			Изход		
				E	d	F	M	G	E	d	F	M	G		
30A(C)20X068N...	20	56.1	113.7				M27x1.5	G3/4"				M27x1.5	G3/4"		
30A(C)25X068N...	25	58.3	118.1				M27x1.5	G3/4"				M27x1.5	G3/4"		
30A(C)28X068N...	28	60.2	121.7				M27x1.5	G3/4"				M27x1.5	G3/4"		
30A(C)32X068N...	32	62	125.3				M33x1.5	G1"				M27x1.5	G3/4"		
30A(C)36X068N...	36	63.5	128.4				M33x1.5	G1"				M27x1.5	G3/4"		
30A(C)42X068N...	42	66.4	134.1				M33x1.5	G1"				M27x1.5	G3/4"		
30A(C)46X068N...	46	68.2	137.8				M33x1.5	G1"				M27x1.5	G3/4"		
30A(C)50X068N...	50	70	141.4				M33x1.5	G1"				M27x1.5	G3/4"		
30A(C)55X068N...	55	72.2	145.9				M33x1.5	G1"				M27x1.5	G3/4"		
30A(C)63X068N...	63	76	153.5				M42x1.5	G1 1/4"				M33x1.5	G1"		

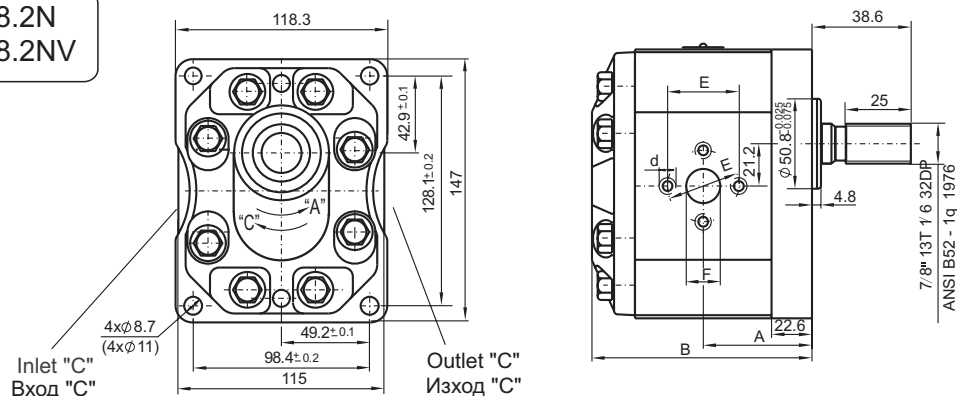
GROUP 30 / ГРУПА 30

30A(C) X068.1N
30A(C) X068.1NV



Type Тип	Displacement Геометричен обем cm³	Dimensions Размери [mm]												
		A	B	Inlet Вход					Outlet Изход					
				E	d	F	M	G	E	d	F	M	G	
30A(C)20X068.1N	20	56.1	113.7	∅39.7	M8	∅19			∅39.7	M8	∅19			
30A(C)25X068.1N	25	58.3	118.1	∅39.7	M8	∅19			∅39.7	M8	∅19			
30A(C)28X068.1N	28	60.2	121.7	∅39.7	M8	∅19			∅39.7	M8	∅19			
30A(C)32X068.1N	32	62	125.3	∅50.8	M10	∅27			∅39.7	M8	∅19			
30A(C)36X068.1N	36	63.5	128.4	∅50.8	M10	∅27			∅39.7	M8	∅19			
30A(C)42X068.1N	42	66.4	134.1	∅50.8	M10	∅27			∅39.7	M8	∅19			
30A(C)46X068.1N	46	68.2	137.8	∅50.8	M10	∅27			∅39.7	M8	∅19			
30A(C)50X068.1N	50	70	141.4	∅50.8	M10	∅27			∅39.7	M8	∅19			
30A(C)55X068.1N	55	72.2	145.9	∅50.8	M10	∅27			∅39.7	M8	∅19			
30A(C)63X068.1N	63	76	153.5	∅61.9	M12	∅33.5			∅50.8	M10	∅27			

30A(C) X068.2N
30A(C) X068.2NV

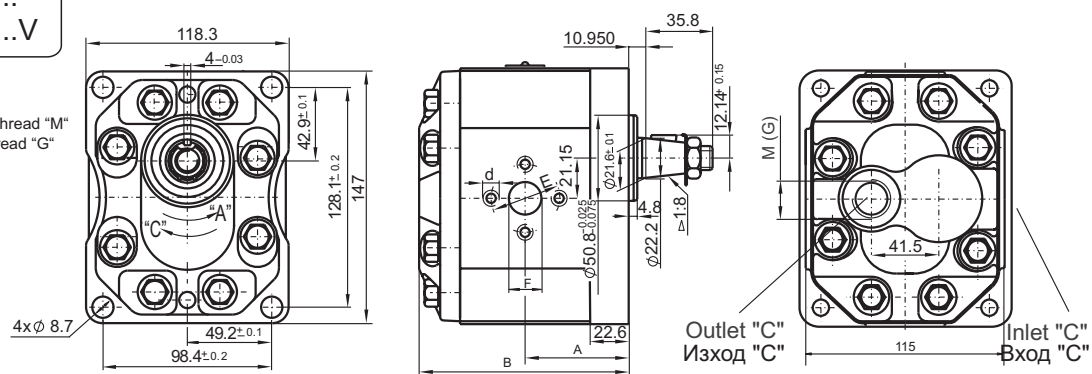


Type Тип	Dimensions Размери [mm]												
	Displacement Геометричен обем cm³	A	B	Inlet Вход					Outlet Изход				
				E	d	F	M	G	E	d	F	M	G
30A(C)20X068.2N	20	56.1	113.7	ø39.7	M8	ø19			ø39.7	M8	ø19		
30A(C)25X068.2N	25	58.3	118.1	ø39.7	M8	ø19			ø39.7	M8	ø19		
30A(C)28X068.2N	28	60.2	121.7	ø39.7	M8	ø19			ø39.7	M8	ø19		
30A(C)32X068.2N	32	62	125.3	ø50.8	M10	ø27			ø39.7	M8	ø19		
30A(C)36X068.2N	36	63.5	128.4	ø50.8	M10	ø27			ø39.7	M8	ø19		
30A(C)42X068.2N	42	66.4	134.1	ø50.8	M10	ø27			ø39.7	M8	ø19		
30A(C)46X068.2N	46	68.2	137.8	ø50.8	M10	ø27			ø39.7	M8	ø19		
30A(C)50X068.2N	50	70	141.4	ø50.8	M10	ø27			ø39.7	M8	ø19		
30A(C)55X068.2N	55	72.2	145.9	ø50.8	M10	ø27			ø39.7	M8	ø19		
30A(C)63X068.2N	63	76	153.5	ø61.9	M12	ø33.5			ø50.8	M10	ø27		

GROUP 30 / ГРУПА 30

30A(C)...XU068N...
30A(C)...XU068N...V

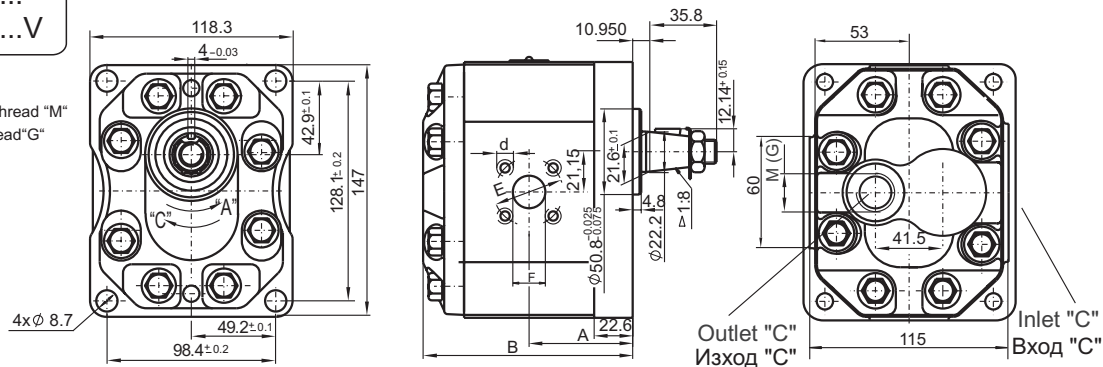
30A(C)...XU068NM(V) - metric thread "M"
30A(C)...XU068NT(V) - GAS thread "G"



Type Тип	Displacement Геометричен обем cm ³	Dimensions Размери [mm]											
		A	B	Inlet Вход					Outlet Изход				
				E	d	F	M	G	E	d	F	M	G
30A(C)20XU068N...	20	56.1	115.5	Ø 39.7	M8	Ø 19						M22x1.5	G3/4"
30A(C)25XU068N...	25	58.3	121.5	Ø 39.7	M8	Ø 19						M22x1.5	G3/4"
30A(C)28XU068N...	28	60.2	124.7	Ø 39.7	M8	Ø 19						M22x1.5	G3/4"
30A(C)32XU068N...	32	62	129	Ø 50.8	M10	Ø 27						M22x1.5	G3/4"
30A(C)36XU068N...	36	63.5	132	Ø 50.8	M10	Ø 27						M27x1.5	G3/4"
30A(C)42XU068N...	42	66.4	137.5	Ø 50.8	M10	Ø 27						M27x1.5	G3/4"
30A(C)46XU068N...	46	68.2	141	Ø 50.8	M10	Ø 27						M27x1.5	G3/4"
30A(C)50XU068N...	50	70	145	Ø 50.8	M10	Ø 27						M27x1.5	G3/4"
30A(C)55XU068N...	55	72.2	149.5	Ø 50.8	M10	Ø 27						M27x1.5	G3/4"

30A(C)...XU002N...
30A(C)...XU002N...V

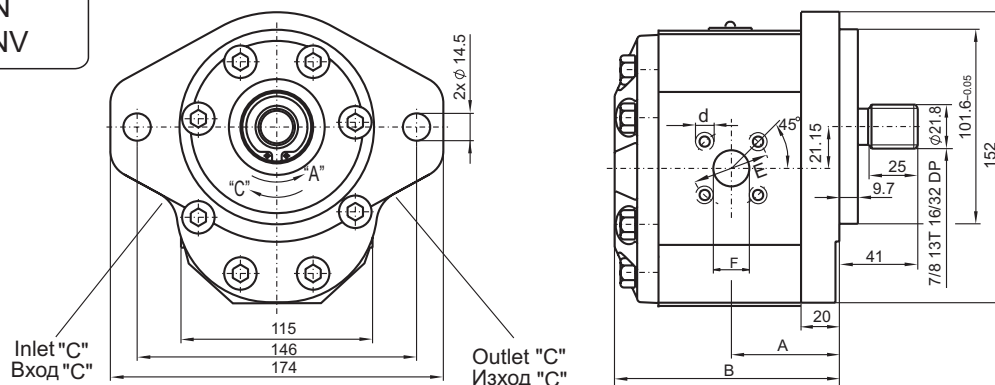
30A(C)...XU002NM(V) - metric thread "M"
30A(C)...XU002NT(V) - GAS thread "G"



Type Тип	Displacement Геометричен обем cm ³	Dimensions Размери [mm]											
		A	B	Inlet Вход					Outlet Изход				
				E	d	F	M	G	E	d	F	M	G
30A(C)20XU002N...	20	56.1	115.5	Ø 39.7	M8	Ø 19						M22x1.5	G3/4"
30A(C)25XU002N...	25	58.3	121.5	Ø 39.7	M8	Ø 19						M22x1.5	G3/4"
30A(C)28XU002N...	28	60.2	124.7	Ø 39.7	M8	Ø 19						M22x1.5	G3/4"
30A(C)32XU002N...	32	62	129	Ø 50.8	M10	Ø 27						M22x1.5	G3/4"
30A(C)36XU002N...	36	63.5	132	Ø 50.8	M10	Ø 27						M27x1.5	G3/4"
30A(C)42XU002N...	42	66.4	137.5	Ø 50.8	M10	Ø 27						M27x1.5	G3/4"
30A(C)46XU002N...	46	68.2	141	Ø 50.8	M10	Ø 27						M27x1.5	G3/4"
30A(C)50XU002N...	50	70	145	Ø 50.8	M10	Ø 27						M27x1.5	G3/4"
30A(C)55XU002N...	55	72.2	149.5	Ø 50.8	M10	Ø 27						M27x1.5	G3/4"

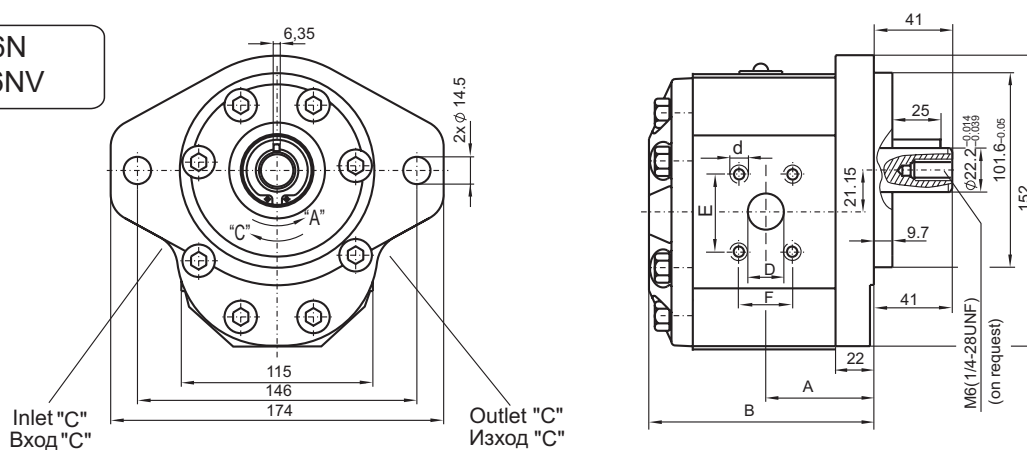
GROUP 30 / ГРУПА 30

30A(C)...X014N
30A(C)...X014NV



Type Тип	Displacement Геометричен обем cm ³	Dimensions Размери [mm]											
		A	B	Inlet Вход					Outlet Изход				
				E	d	F	M	G	E	d	F	M	G
30A(C)20X014N	20	53.5	111.1	ø55	M8	ø26			ø55	M8	ø18		
30A(C)25X014N	25	55.7	115.5	ø55	M8	ø26			ø55	M8	ø18		
30A(C)28X014N	28	57.6	119.1	ø55	M8	ø26			ø55	M8	ø18		
30A(C)32X014N	32	59.4	122.7	ø55	M8	ø26			ø55	M8	ø18		
30A(C)36X014N	36	61	125.8	ø55	M8	ø26			ø55	M8	ø18		
30A(C)42X014N	42	63.8	131.5	ø55	M8	ø26			ø55	M8	ø18		
30A(C)46X014N	46	65.6	135.2	ø55	M8	ø26			ø55	M8	ø18		
30A(C)50X014N	50	67.4	138.8	ø55	M8	ø26			ø55	M8	ø18		
30A(C)55X014N	55	69.7	143.3	ø55	M8	ø26			ø55	M8	ø18		
30A(C)63X014N	63	73.4	150.8	ø62	M12	ø33			ø62	M12	ø33		

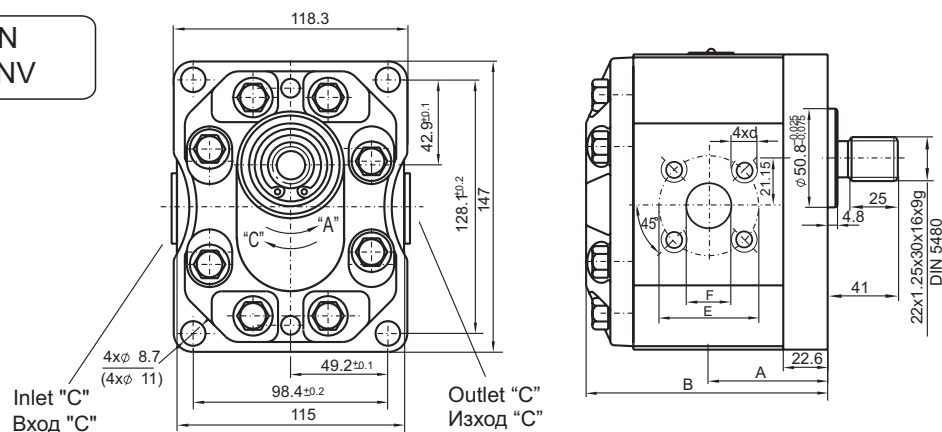
30A(C)...X076N
30A(C)...X076NV



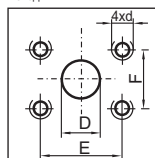
Type Тип	Displacement Геометричен обем cm ³	Dimensions Размери [mm]											
		A	B	Inlet Вход					Outlet Изход				
				E	d	F	D	G	E	d	F	D	G
30A(C)20X076N	20	55.5	113.1	52.4	3/8"-16UNC-2B	26.2	ø26		47.6	3/8"-16UNC-2B	22.2	ø18	
30A(C)25X076N	25	57.7	117.5	52.4		26.2	ø26		47.6		22.2	ø18	
30A(C)28X076N	28	59.6	121.1	52.4		26.2	ø26		47.6		22.2	ø18	
30A(C)32X076N	32	61.4	124.7	52.4		26.2	ø26		47.6		22.2	ø18	
30A(C)36X076N	36	63	127.8	52.4		26.2	ø26		47.6		22.2	ø18	
30A(C)42X076N	42	65.8	133.5	52.4		26.2	ø26		47.6		22.2	ø18	
30A(C)46X076N	46	67.6	137.2	52.4		26.2	ø26		47.6		22.2	ø18	
30A(C)50X076N	50	69.4	140.8	52.4		26.2	ø26		47.6		22.2	ø18	
30A(C)55X076N	55	71.6	145.3	52.4		26.2	ø26		47.6		22.2	ø18	

GROUP 30 / ГРУПА 30

30A(C)...X013N
30A(C)...X013NV

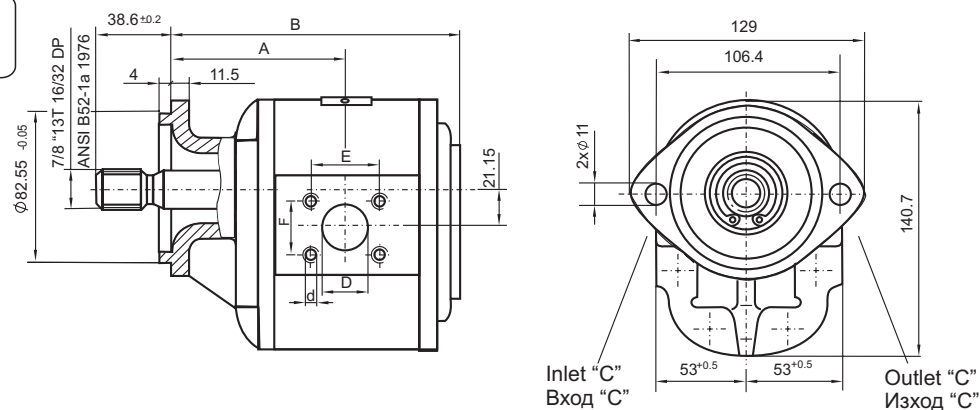


Outlet
Изход



Type Тип	Dimensions Размери [mm]												
	Displacement Геометричен обем cm ³	A	B	Inlet Вход					Outlet Изход				
				E	d	F	M	G	E	d	F	D	G
30A(C)20X013N	20	56.1	113.7	ø 39.7	M8	ø 19			37.6	M8	22.2	ø 19	
30A(C)25X013N	25	58.3	118.1	ø 39.7	M8	ø 19			37.6	M8	22.2	ø 19	
30A(C)28X013N	28	60.2	121.7	ø 39.7	M8	ø 19			37.6	M8	22.2	ø 19	
30A(C)32X013N	32	62	125.3	ø 50.8	M10	ø 27			37.6	M8	22.2	ø 19	
30A(C)36X013N	36	63.5	128.4	ø 50.8	M10	ø 27			37.6	M8	22.2	ø 19	
30A(C)42X013N	42	66.4	134.1	ø 50.8	M10	ø 27			37.6	M8	22.2	ø 19	
30A(C)46X013N	46	68.2	137.8	ø 50.8	M10	ø 27			37.6	M8	22.2	ø 19	
30A(C)50X013N	50	70	141.4	ø 50.8	M10	ø 27			37.6	M8	22.2	ø 19	
30A(C)55X013N	55	72.2	145.9	ø 50.8	M10	ø 27			37.6	M8	22.2	ø 19	

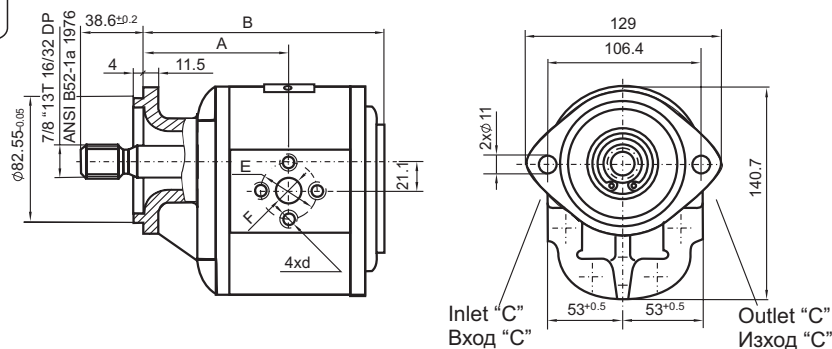
30A(C)...X015-SAE



Type Тип	Dimensions Размери [mm]													
	Displacement Геометричен обем cm ³	A	B	Inlet		Вход			Outlet		Изход			
				E	d	F	D	G	E	d	F	D	G	
30A(C)20X015-SAE					3/8"-16UNC-2B					3/8"-16UNC-2B				
30A(C)25X015-SAE														
30A(C)28X015-SAE														
30A(C)32X015-SAE	32	100.4	162	52.4		26.2	Ø 27		52.4			26.2	Ø 18	
30A(C)36X015-SAE														
30A(C)42X015-SAE														
30A(C)46X015-SAE														
30A(C)50X015-SAE														
30A(C)55X015-SAE	55	111.5	197	69.8		35.6	Ø 32		52.4			26.2	Ø 22	

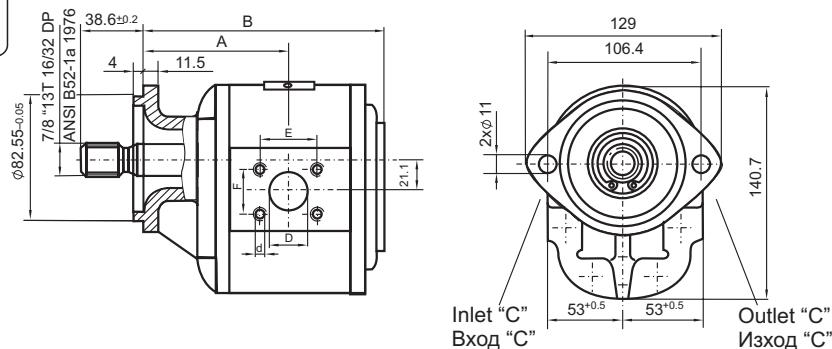
GROUP 30 / ГРУПА 30

30A(C)...X068-SAE

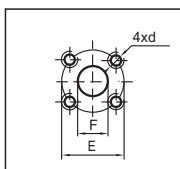


Type Тип	Dimensions Размери [mm]													
	Displacement Геометричен обем cm³	A	B	Inlet		Вход			Outlet		Изход			
				E	d	F	M	G	E	d	F	M	G	
30A(C)20X068-SAE														
30A(C)25X068-SAE														
30A(C)28X068-SAE														
30A(C)32X068-SAE	32	100.4	162	Ø 50.8	M10	Ø 27				Ø 39.7	M8	Ø 19		
30A(C)36X068-SAE														
30A(C)42X068-SAE														
30A(C)46X068-SAE														
30A(C)50X068-SAE														
30A(C)55X068-SAE														

30A(C)...X002-SAE



Inlet / Вход



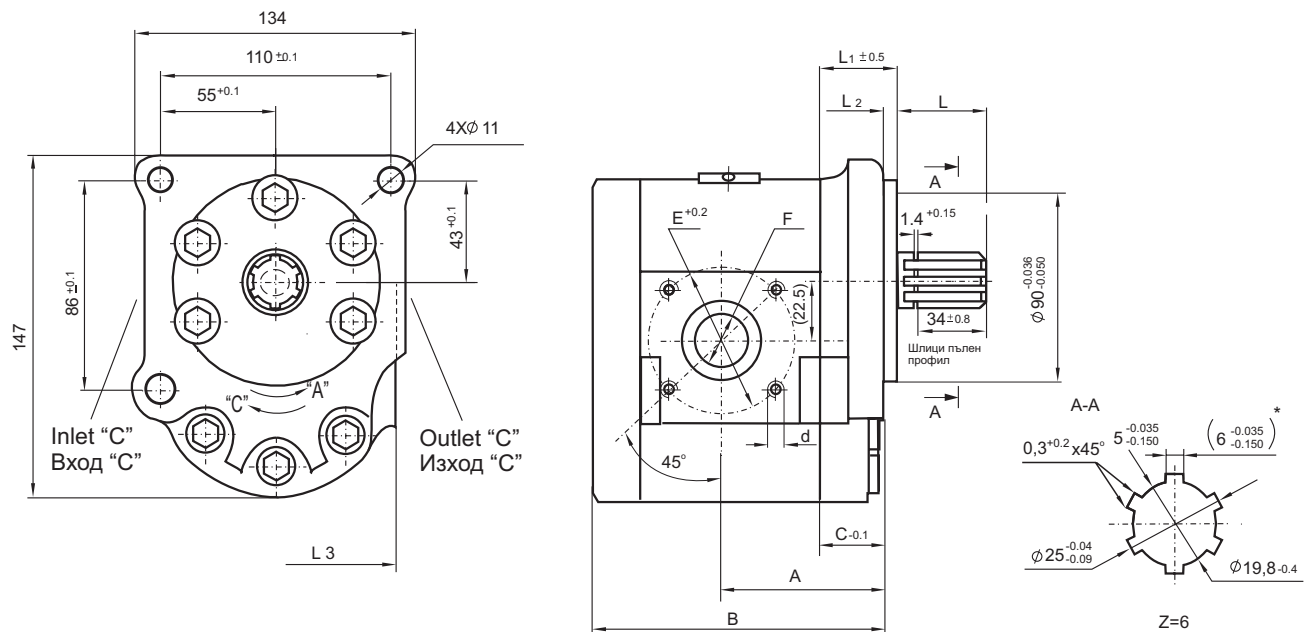
Type Тип	Dimensions Размери [mm]													
	Displacement Геометричен обем cm³	A	B	Inlet		Вход			Outlet		Изход			
				E	d	F	M	G	E	d	F	D	G	
30A(C)20X002-SAE														
30A(C)25X002-SAE														
30A(C)28X002-SAE														
30A(C)32X002-SAE	32	100.4	162	Ø 50.8	M10	Ø 27				37.6	M8	22.2	Ø 19	
30A(C)36X002-SAE														
30A(C)42X002-SAE														
30A(C)46X002-SAE														
30A(C)50X002-SAE														
30A(C)55X002-SAE														

GROUP 30 / ГРУПА 30

ANALOGUES OF HYDRAULIC GEAR PUMPS НШ32Д, НШ32У-3, НШ46У-Л4, НШ50У-3Л
АНАЛОЗИ НА ХИДРАВЛИЧНИ ЗЪБНИ ПОМПИ НШ32Д, НШ32У-3, НШ46У-Л4, НШ50У-3Л

30A(C)...X004...

Pumps type	Тип помпи		НШ32Д	НШ32У-3	НШ46У-Л4	НШ50У-3Л		
Displacement Работен обем		cm ³	32	32	46	50	55	63
Output pressure of the pump Налягане на изхода на помпата		bar	160 200	160 175	140 175	140 175	140 175	120 140
Absolut input pressure of the pump Абсолютно налягане на входа на помпата		bar	0.74 1.50	0.8 1.3	0.74 1.50	0.74 1.50	0.74 1.50	0.74 1.50
Rotational frequency of the pump's shaft Честота на въртене на вала		min ⁻¹	700 1920 2400	700 1920 2400	700 1920 2300	700 1920 2300	700 1920 2300	700 1800 2000



*The width of the grooves 5 or 6 mm should be clarified for each order.

*Ширината на шлиците 5 или 6 mm се уточнява за всяка поръчка.

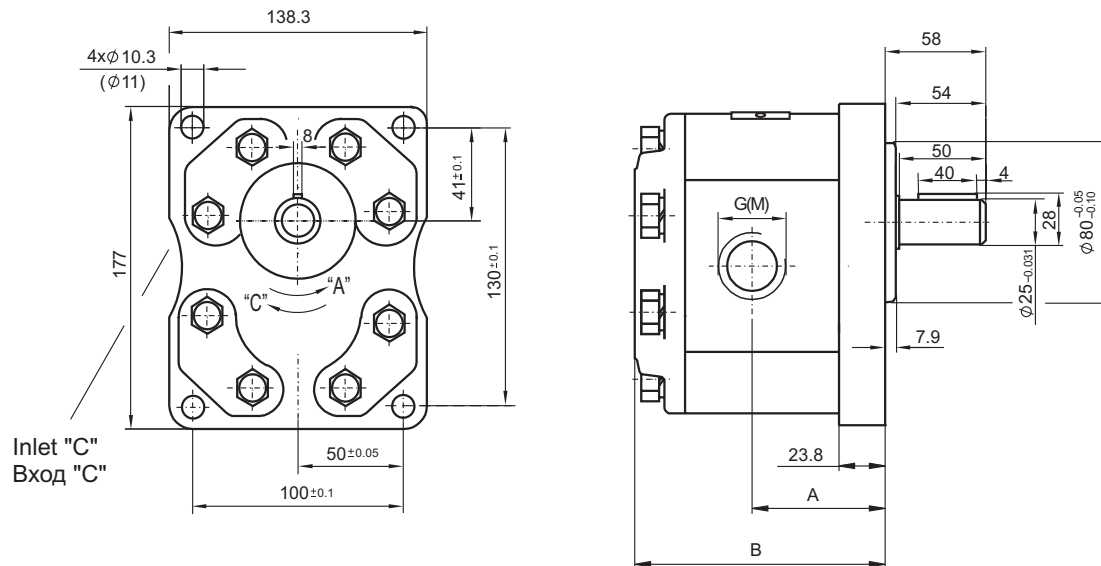
Type Тип	Dimensions														
-------------	------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--

The pumps are offered also with pressure up to 250 bar.

Помпите се предлагат и във вариант за налягане до 250 bar.



A(C)95...165X...-3



Type Тип	Dimensions Размери [mm]											
	A	B	Inlet Вход					Outlet Изход				
						T	TM				T	TM
			F	d	E	G	M	F	d	E	G	M
A(C)95X...-3	66	132				G1	M33x1.5				G1	M33x1.5
A(C)120X ...-3	66	132				G1	M33x1.5				G1	M33x1.5
A(C)140X ...-3	72.3	145				G1 ^{1/4}	M42x1.5				G1	M33x1.5
A(C)165X ...-3	72.3	145				G1 ^{1/4}	M42x1.5				G1	M33x1.5

A(C)95...165XTM-3 - metric thread

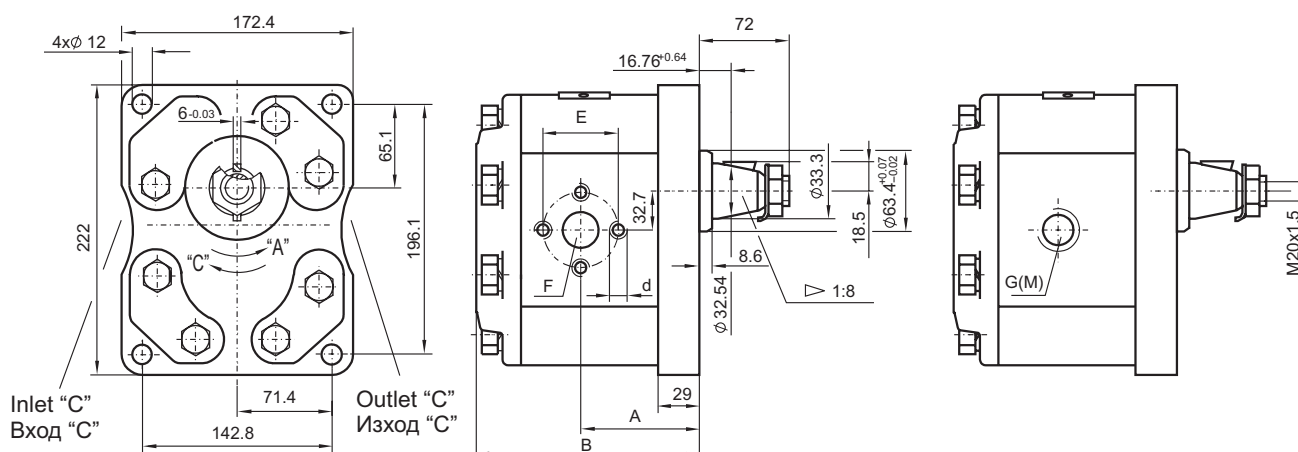
A(C)95...165XT-3 - "GAS" thread

GROUP V / ГРУПА V

Technical data		Технически данни			
Type size Типоразмер		170	215	280	325
Working volume Работен обем	cm ³	77	98	127	147
Rated pressure Номинално налягане	bar	175	140	140	105
Max. Pressure Максимално налягане	bar	200	170	170	130
Min. speed Мин. честота на въртене	min ⁻¹	700	700	700	700
Max. speed Макс. честота на въртене	min ⁻¹	1750	1750	1750	1750

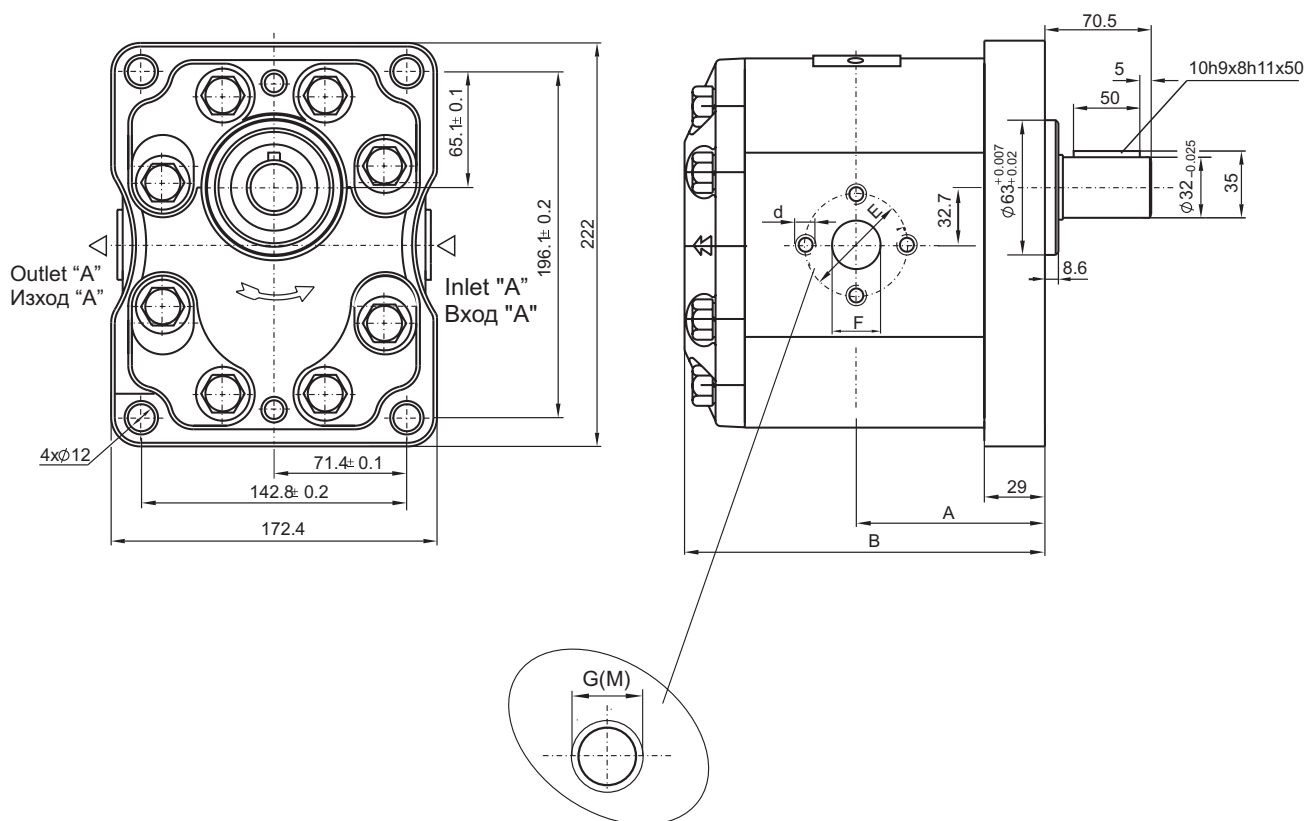
variant X (without designation
без означения)

variant T (TM)



Type Тип	Dimensions Размери [mm]											
	Inlet Вход						Outlet Изход					
	A	B	F	d	E	G	M	F	d	E	G	M
A(C) 170X...	79.7	160	38	M12	72.5	G1 1/2	M48X 2	32	M12	61.9	G1 1/4	M42X 1,5
A(C) 215X...	79.7	160	38	M12	72.5	G1 1/2	M48X 2	32	M12	61.9	G1 1/4	M42X 1,5
A(C) 280X...	88.9	180	38	M12	72.5	G1 1/2	M48X 2	32	M12	61.9	G1 1/4	M42X 1,5
A(C) 325X...	88.9	180	38	M12	72.5	G1 1/2	M48X 2	32	M12	61.9	G1 1/4	M42X 1,5

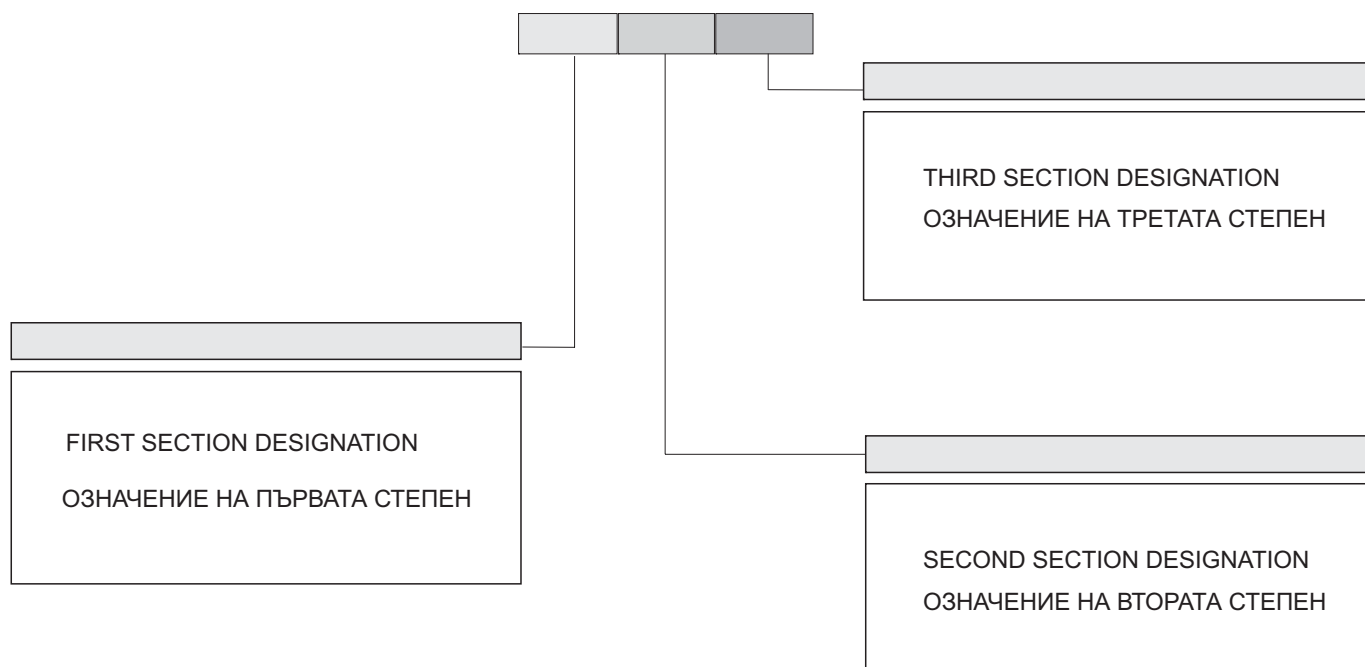
A(C)170...325X...-3



Type Тип	Dimensions Размери [mm]											
			Inlet Вход					Outlet Изход				
						T	TM				T	TM
	A	B	F	d	E	G	M	F	d	E	G	M
A(C) 170X...-3	79.7	160	38	M12	72.5	G1 ¹ / ₂	M48X2	32	M12	61.9	G1 ¹ / ₄	M42X 1,5
A(C) 215X...-3	79.7	160	38	M12	72.5	G1 ¹ / ₂	M48X2	32	M12	61.9	G1 ¹ / ₄	M42X 1,5
A(C) 280X...-3	88.9	180	38	M12	72.5	G1 ¹ / ₂	M48X2	32	M12	61.9	G1 ¹ / ₄	M42X 1,5
A(C) 325X...-3	88.9	180	38	M12	72.5	G1 ¹ / ₂	M48X2	32	M12	61.9	G1 ¹ / ₄	M42X 1,5

A(C)170...325XTM-3 - metric thread
A(C)170...325XT-3 - "GAS" thread

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Example:

A9X2A1-1/A5X13A8.1-1/A4X13A8.1
 - Triple gear pump, counter-clockwise rotation; shaft outlet through the front cover and displacement respectively 9 cm^3 , 5 cm^3 and 4 cm^3 .

Пример:

A9X2A1-1/A5X13A8.1-1/A4X13A8.1
 - Строена зъбна помпа, посока на въртене обратна на часовниковата стрелка, вал през капак преден, работен обем 9 cm^3 ; 5 cm^3 ; 4 cm^3

Note:

The parameters of the tandem and triple pumps are valid but with the following limitations:

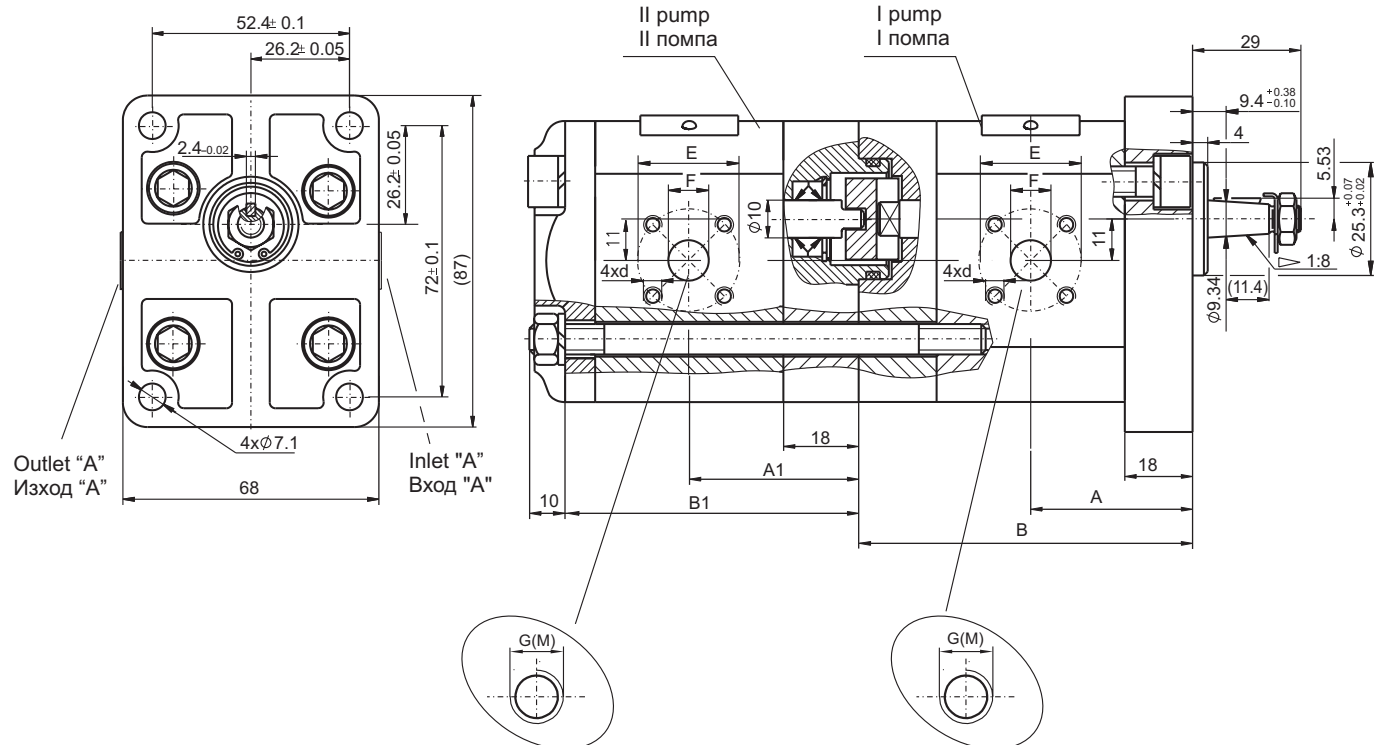
1. The maximum frequency of rotation is determined by the pump with the lowest frequency of rotation.

2. The technical data in the tables for the single pumps of all parameters are valid for the tandem and triple pumps also in case that one of the pumps works at nominal pressure while the other ones work without pressure.

Забележка:

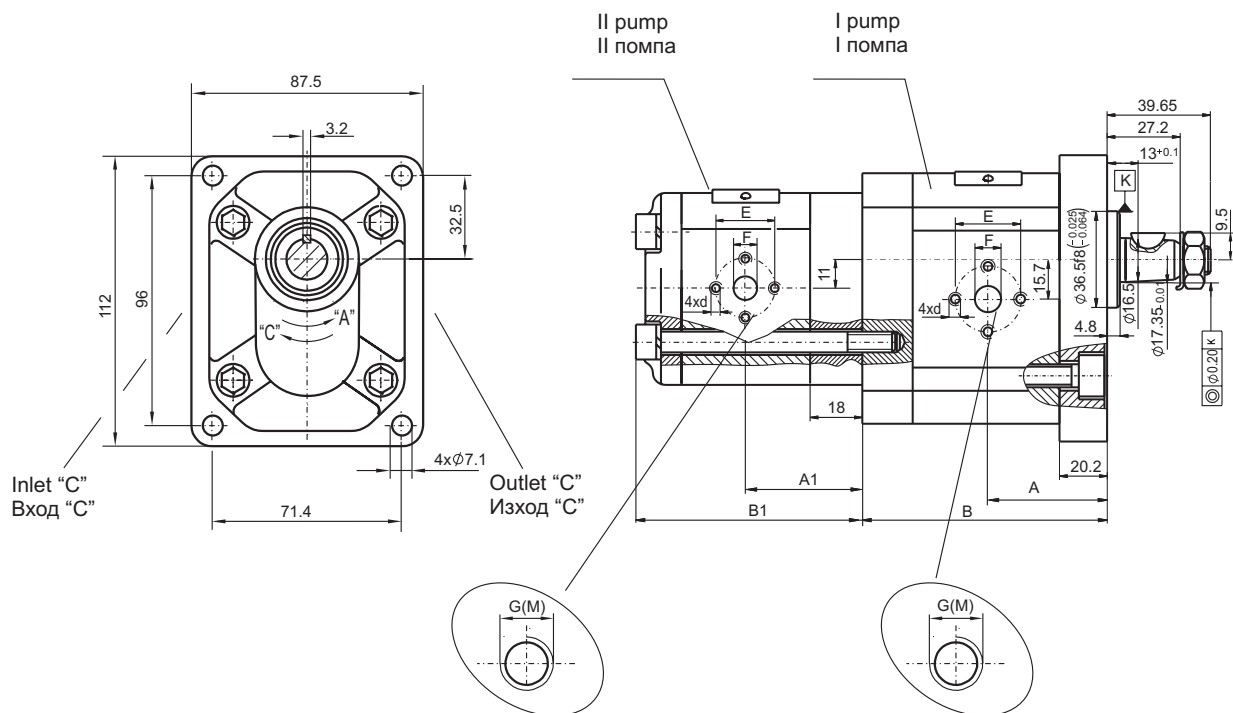
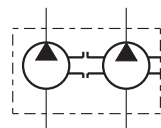
При сдвоените и строените помпи са валидни следните ограничения:

1. Максималната честота на въртене се определя от помпата с най-малка честота на въртене
2. Техническите данни в таблиците за единичните помпи са валидни и за сдвоените /строените/ помпи, при условие, че едната помпа работи при номинално налягане, а останалите без налягане.

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TANDEM GROUP II + I / СДВОЕНИ ГРУПА II + I

21A(C)...X1...1-B1/A(C)...X5...05-B Pn=250 bar
 21A(C)...X2...1-1/A(C)...X5...05 Pn=200 bar



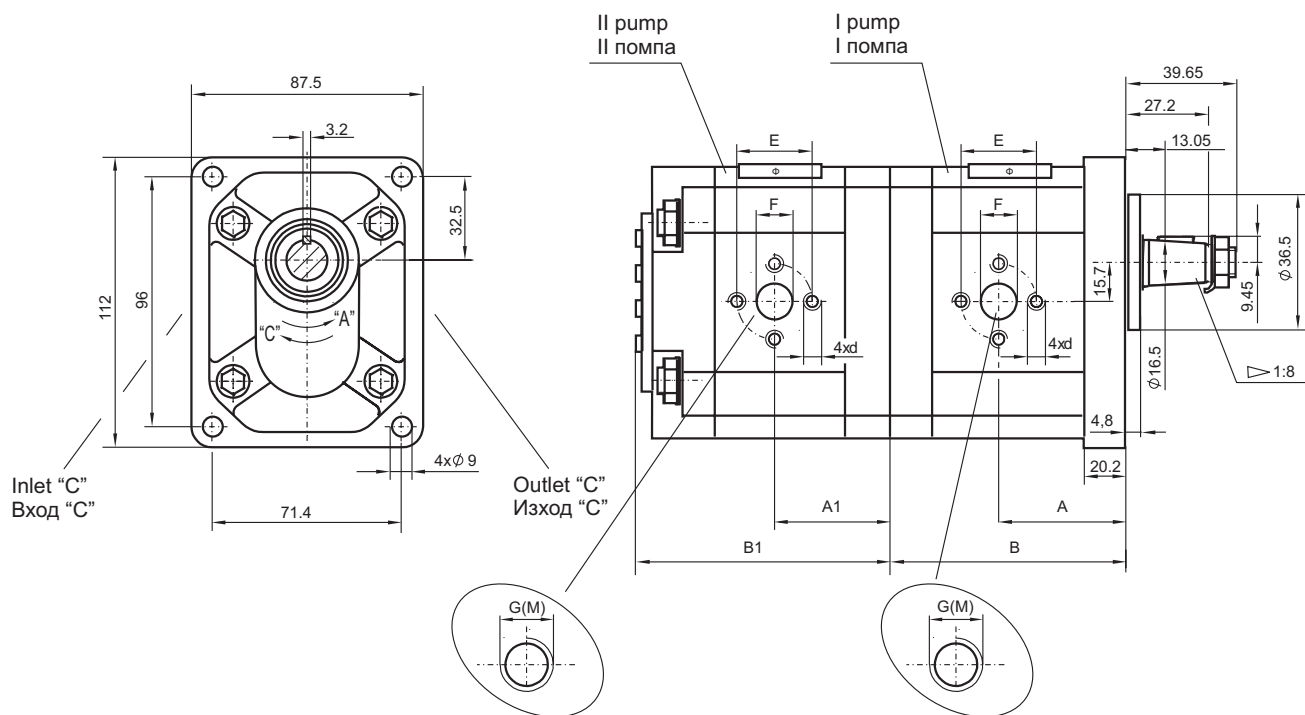
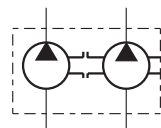
I pump I помпа													
Type Тип	Dimensions Размери mm												
	A	B	Inlet Вход					Outlet Изход					
			E	F	d	M	G	E	F	d	M	G	
21A(C)4X1...1-	43.5	84.2	Ø 30.2	Ø 13.1	M6	M20x1.5	G1/2"	Ø 30.2	Ø 13.1	M6	M16x1.5	G1/2"	
21A(C)5X1...1-	44.5	85.7	Ø 30.2	Ø 13.1	M6	M20x1.5	G1/2"	Ø 30.2	Ø 13.1	M6	M16x1.5	G1/2"	
21A(C)6X1...1-	45.2	87.2	Ø 30.2	Ø 13.1	M6	M20x1.5	G1/2"	Ø 30.2	Ø 13.1	M6	M16x1.5	G1/2"	
21A(C)9X1...1-	47.2	91.2	Ø 30.2	Ø 13.1	M6	M20x1.5	G1/2"	Ø 30.2	Ø 13.1	M6	M16x1.5	G1/2"	
21A(C)10X1...1-	48.2	93.2	Ø 39.7	Ø 19	M8	M20x1.5	G3/4"	Ø 30.2	Ø 14.2	M6	M16x1.5	G1/2"	
21A(C)11X1...1-	49.2	95.2	Ø 39.7	Ø 19	M8	M20x1.5	G3/4"	Ø 30.2	Ø 14.2	M6	M16x1.5	G1/2"	
21A(C)12X1...1-	50.2	97.2	Ø 39.7	Ø 19	M8	M20x1.5	G3/4"	Ø 30.2	Ø 14.2	M6	M16x1.5	G1/2"	
21A(C)14X1...1-	52.2	101.2	Ø 39.7	Ø 19	M8	M20x1.5	G3/4"	Ø 30.2	Ø 14.2	M6	M16x1.5	G1/2"	
21A(C)15X1...1-	53	102.7	Ø 39.7	Ø 19	M8	M20x1.5	G3/4"	Ø 30.2	Ø 14.2	M6	M16x1.5	G1/2"	
21A(C)16X1...1-	53.7	104.2	Ø 39.7	Ø 19	M8	M20x1.5	G3/4"	Ø 30.2	Ø 14.2	M6	M16x1.5	G1/2"	
21A(C)17X1...1-	54.2	105.2	Ø 39.7	Ø 19	M8	M20x1.5	G3/4"	Ø 30.2	Ø 14.2	M6	M16x1.5	G1/2"	
21A(C)19X1...1-	56.2	109.2	Ø 39.7	Ø 19	M8	M20x1.5	G3/4"	Ø 30.2	Ø 14.2	M6	M16x1.5	G1/2"	
21A(C)22X1...1-	59.2	115.2	Ø 39.7	Ø 19	M8	M20x1.5	G3/4"	Ø 30.2	Ø 14.2	M6	M20x1.5	G1/2"	
21A(C)25X1...1-	61	118.7	Ø 39.7	Ø 19	M8	M20x1.5	G3/4"	Ø 30.2	Ø 14.2	M6	M20x1.5	G1/2"	
21A(C)26X1...1-	61.7	120.2	Ø 39.7	Ø 19	M8	M20x1.5	G3/4"	Ø 30.2	Ø 14.2	M6	M20x1.5	G1/2"	

II pump II помпа													
Type Тип	Dimensions Размери mm												
	A1	B1	Inlet Вход					Outlet Изход					
			E	F	d	M	G	E	F	d	M	G	
A(C)1X5...05	39.1	81.2	Ø 30	Ø 12	M6	M16x1.5	G3/8"	Ø 30	Ø 12	M6	M16x1.5	G3/8"	
A(C)1.25X5...05	39.6	82.2	Ø 30	Ø 12	M6	M16x1.5	G3/8"	Ø 30	Ø 12	M6	M16x1.5	G3/8"	
A(C)1.6X5...05	40.3	83.6	Ø 30	Ø 12	M6	M16x1.5	G3/8"	Ø 30	Ø 12	M6	M16x1.5	G3/8"	
A(C)2X5...05	41.1	85.2	Ø 30	Ø 12	M6	M16x1.5	G3/8"	Ø 30	Ø 12	M6	M16x1.5	G3/8"	
A(C)2.5X5...05	42.1	87.2	Ø 30	Ø 12	M6	M16x1.5	G3/8"	Ø 30	Ø 12	M6	M16x1.5	G3/8"	
A(C)3.15X5...05	43.4	89.9	Ø 30	Ø 12	M6	M20x1.5	G1/2"	Ø 30	Ø 12	M6	M16x1.5	G3/8"	
A(C)3.65X5...05	44.4	91.8	Ø 30	Ø 12	M6	M20x1.5	G1/2"	Ø 30	Ø 12	M6	M16x1.5	G3/8"	
A(C)4.2X5...05	45.5	94	Ø 30	Ø 12	M6	M20x1.5	G1/2"	Ø 30	Ø 12	M6	M16x1.5	G3/8"	
A(C)5.1X5...05	47.1	97.2	Ø 30	Ø 12	M6	M20x1.5	G1/2"	Ø 30	Ø 12	M6	M16x1.5	G3/8"	
A(C)5.7X5...05	48.5	100	Ø 30	Ø 12	M6	M20x1.5	G1/2"	Ø 30	Ø 12	M6	M16x1.5	G3/8"	
A(C)6.1X5...05	49.4	101.8	Ø 30	Ø 12	M6	M20x1.5	G1/2"	Ø 30	Ø 12	M6	M16x1.5	G3/8"	
A(C)7X5...05	51.2	105.5	Ø 30	Ø 12	M6	M20x1.5	G1/2"	Ø 30	Ø 12	M6	M16x1.5	G3/8"	

21A(C)...X1A1-(B)1/A(C)...X5A05-B-normal
 21A(C)...X1M1...1-(B)1/A(C)...X5M05-(B)-metric thread "M"
 21A(C)...X1T1-(B)1/A(C)...X5T05-(B)-GAS thread "G"

TANDEM GROUP II + II / СДВОЕНИ ГРУПА II + II

A(C)...X2...1-B1/A(C)...X13...8.1-B Pn=250 bar
 A(C)...X2...1-1/A(C)...X13...8.1 Pn=200 bar

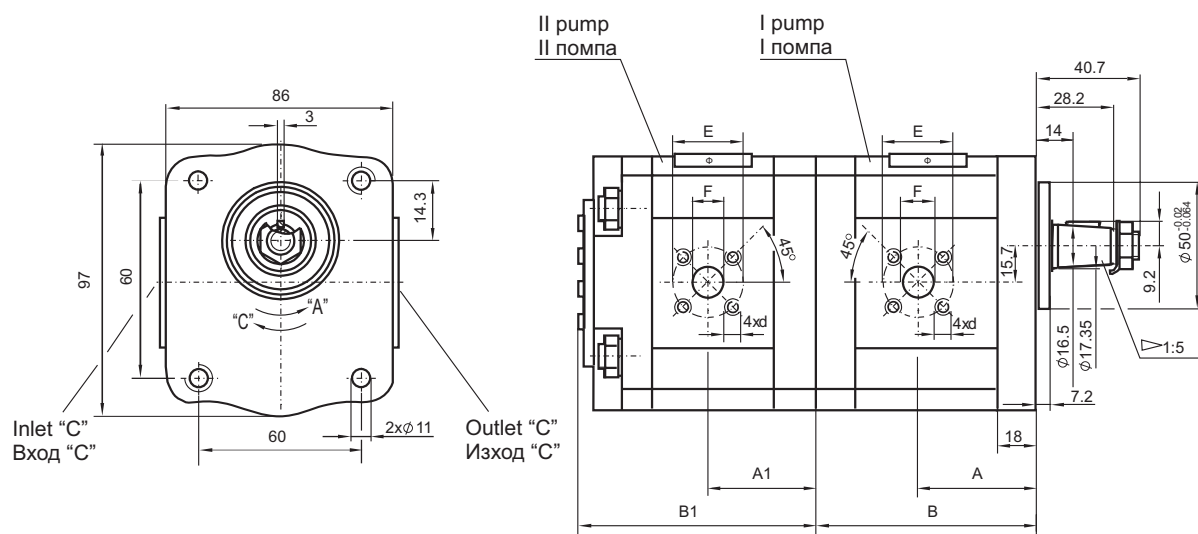
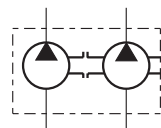


I pump I помпа												
Type Тип	Dimensions Размери mm											
	A	B	Inlet Вход					Outlet Изход				
			E	F	d	M	G	E	F	d	M	G
A(C)4X2...1-1	43.5	84.2	φ30.2	φ13.1	M6	M20x1.5	G1/2"	φ30.2	φ13.1	M6	M16x1.5	G1/2"
A(C)5X2...1-1	44.5	85.7	φ30.2	φ13.1	M6	M20x1.5	G1/2"	φ30.2	φ13.1	M6	M16x1.5	G1/2"
A(C)6X2...1-1	45.2	87.2	φ30.2	φ13.1	M6	M20x1.5	G1/2"	φ30.2	φ13.1	M6	M16x1.5	G1/2"
A(C)9X2...1-1	47.2	91.2	φ30.2	φ13.1	M6	M20x1.5	G1/2"	φ30.2	φ13.1	M6	M16x1.5	G1/2"
A(C)10X2...1-1	48.2	93.2	φ39.7	φ19	M8	M20x1.5	G3/4"	φ30.2	φ14.2	M6	M16x1.5	G1/2"
A(C)11X2...1-1	49.2	95.2	φ39.7	φ19	M8	M20x1.5	G3/4"	φ30.2	φ14.2	M6	M16x1.5	G1/2"
A(C)12X2...1-1	50.2	97.2	φ39.7	φ19	M8	M20x1.5	G3/4"	φ30.2	φ14.2	M6	M16x1.5	G1/2"
A(C)14X2...1-1	52.2	101.2	φ39.7	φ19	M8	M20x1.5	G3/4"	φ30.2	φ14.2	M6	M16x1.5	G1/2"
A(C)15X2...1-1	53	102.7	φ39.7	φ19	M8	M20x1.5	G3/4"	φ30.2	φ14.2	M6	M16x1.5	G1/2"
A(C)16X2...1-1	53.7	104.2	φ39.7	φ19	M8	M20x1.5	G3/4"	φ30.2	φ14.2	M6	M16x1.5	G1/2"
A(C)17X2...1-1	54.2	105.2	φ39.7	φ19	M8	M20x1.5	G3/4"	φ30.2	φ14.2	M6	M16x1.5	G1/2"
A(C)19X2...1-1	56.2	109.2	φ39.7	φ19	M8	M20x1.5	G3/4"	φ30.2	φ14.2	M6	M16x1.5	G1/2"
A(C)22X2...1-1	59.2	115.2	φ39.7	φ19	M8	M20x1.5	G3/4"	φ30.2	φ14.2	M6	M20x1.5	G1/2"
A(C)25X2...1-1	61	118.7	φ39.7	φ19	M8	M20x1.5	G3/4"	φ30.2	φ14.2	M6	M20x1.5	G1/2"
A(C)26X2...1-1	61.7	120.2	φ39.7	φ19	M8	M20x1.5	G3/4"	φ30.2	φ14.2	M6	M20x1.5	G1/2"

II pump II помпа												
Type Тип	Dimensions Размери mm											
	A1	B1	Inlet Вход					Outlet Изход				
			E	F	d	M	G	E	F	d	M	G
A(C)4X13...8.1	40.5	89	φ30.2	φ13.1	M6	M20x1.5	G1/2"	φ30.2	φ13.1	M6	M16x1.5	G1/2"
A(C)5X13...8.1	41.3	90.5	φ30.2	φ13.1	M6	M20x1.5	G1/2"	φ30.2	φ13.1	M6	M16x1.5	G1/2"
A(C)6X13...8.1	42	92	φ30.2	φ13.1	M6	M20x1.5	G1/2"	φ30.2	φ13.1	M6	M16x1.5	G1/2"
A(C)9X13...8.1	44	96	φ30.2	φ13.1	M6	M20x1.5	G1/2"	φ30.2	φ13.1	M6	M16x1.5	G1/2"
A(C)10X13...8.1	45	98	φ39.7	φ19	M8	M20x1.5	G3/4"	φ30.2	φ14.2	M6	M16x1.5	G1/2"
A(C)11X13...8.1	46	100	φ39.7	φ19	M8	M20x1.5	G3/4"	φ30.2	φ14.2	M6	M16x1.5	G1/2"
A(C)12X13...8.1	47	102	φ39.7	φ19	M8	M20x1.5	G3/4"	φ30.2	φ14.2	M6	M16x1.5	G1/2"
A(C)14X13...8.1	49	106	φ39.7	φ19	M8	M20x1.5	G3/4"	φ30.2	φ14.2	M6	M16x1.5	G1/2"
A(C)15X13...8.1	50	107.5	φ39.7	φ19	M8	M20x1.5	G3/4"	φ30.2	φ14.2	M6	M16x1.5	G1/2"
A(C)16X13...8.1	50.5	109	φ39.7	φ19	M8	M20x1.5	G3/4"	φ30.2	φ14.2	M6	M16x1.5	G1/2"
A(C)17X13...8.1	51	110	φ39.7	φ19	M8	M20x1.5	G3/4"	φ30.2	φ14.2	M6	M16x1.5	G1/2"
A(C)19X13...8.1	53	114	φ39.7	φ19	M8	M20x1.5	G3/4"	φ30.2	φ14.2	M6	M16x1.5	G1/2"
A(C)22X13...8.1	56	120	φ39.7	φ19	M8	M20x1.5	G3/4"	φ30.2	φ14.2	M6	M20x1.5	G1/2"
A(C)25X13...8.1	58	123.5	φ39.7	φ19	M8	M20x1.5	G3/4"	φ30.2	φ14.2	M6	M20x1.5	G1/2"
A(C)26X13...8.1	58.5	125	φ39.7	φ19	M8	M20x1.5	G3/4"	φ30.2	φ14.2	M6	M20x1.5	G1/2"

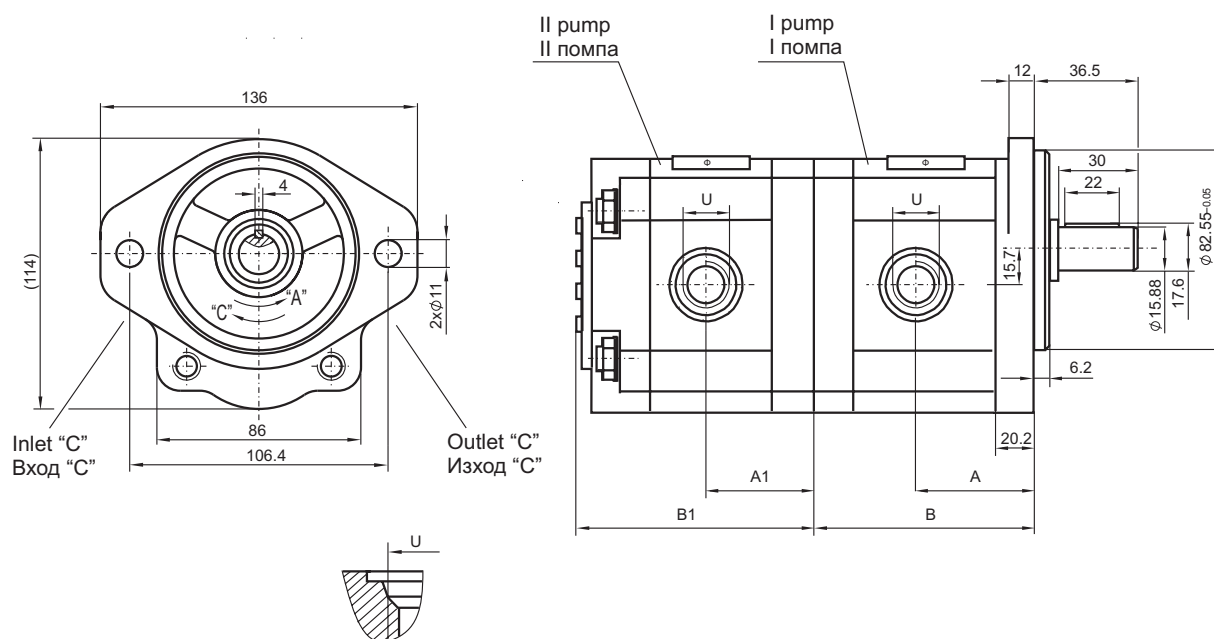
A(C)...X2A1-1/A(C)...X13A8.1B-normal
 A(C)...X2M1...1-B1/A(C)...X13M8.1B-metric thread "M"
 A(C)...X2T1-1/A(C)...X13T8.1B-GAS thread "G"

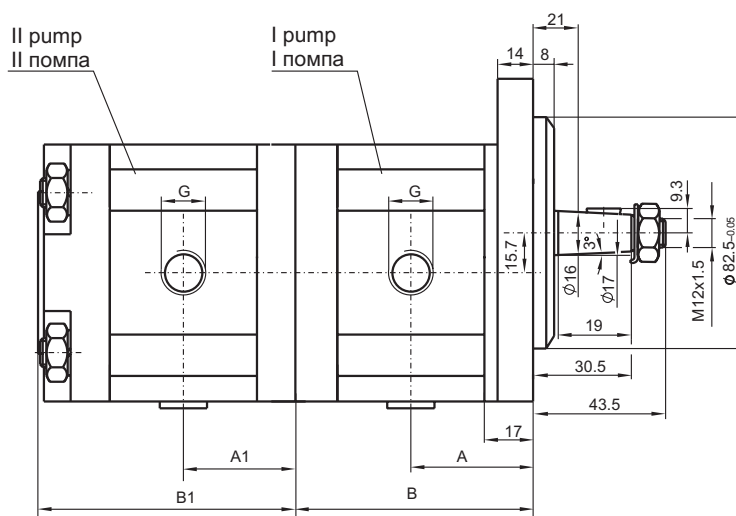
A(C)...X7C3-B1/A(C)...X13C8.1-B Pn=250 bar
 A(C)...X7C3-1/A(C)...X13C8.1 Pn=200 bar



Type Тип	I pump I помпа											
	Dimensions Размери mm											
	A	B	Inlet Вход					Outlet Изход				
			E	F	d	M	G	E	F	d	M	G
A(C)4X7C3-1	41.3	82	φ40	φ20	M6			φ35	φ15	M6		
A(C)5X7C3-1	42.3	83.5	φ40	φ20	M6			φ35	φ15	M6		
A(C)6X7C3-1	43	85	φ40	φ20	M6			φ35	φ15	M6		
A(C)9X7C3-1	45	89	φ40	φ20	M6			φ35	φ15	M6		
A(C)10X7C3-1	46	91	φ40	φ20	M6			φ35	φ15	M6		
A(C)11X7C3-1	47	93	φ40	φ20	M6			φ35	φ15	M6		
A(C)12X7C3-1	48	95	φ40	φ20	M6			φ35	φ15	M6		
A(C)14X7C3-1	50	99	φ40	φ20	M6			φ35	φ15	M6		
A(C)15X7C3-1	50.8	100.5	φ40	φ20	M6			φ35	φ15	M6		
A(C)16X7C3-1	51.5	102	φ40	φ20	M6			φ35	φ15	M6		
A(C)17X7C3-1	52	103	φ40	φ20	M6			φ35	φ15	M6		
A(C)19X7C3-1	54	107	φ40	φ20	M6			φ35	φ15	M6		
A(C)22X7C3-1	57	113	φ40	φ20	M6			φ35	φ15	M6		
A(C)25X7C3-1	58.8	116.5	φ40	φ20	M6			φ35	φ15	M6		
A(C)26X7C3-1	59.5	118	φ40	φ20	M6			φ35	φ15	M6		

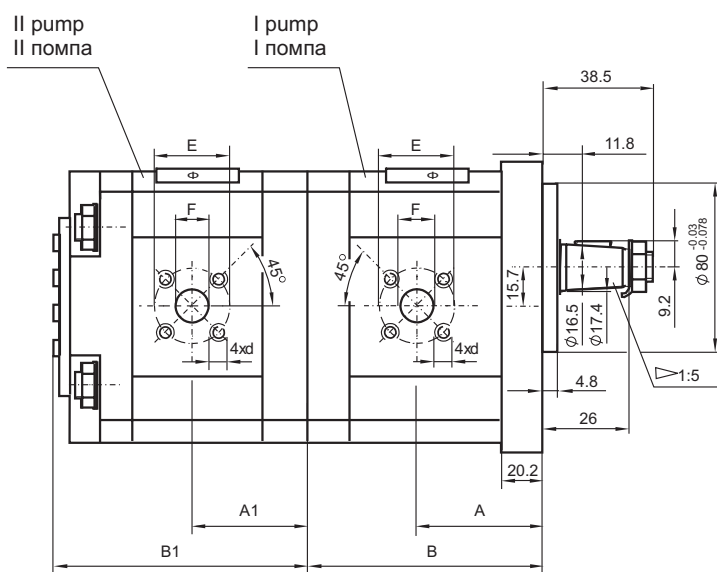
Type Тип	II pump II помпа											
	Dimensions Размери mm											
	A1	B1	Inlet Вход					Outlet Изход				
			E	F	d	M	G	E	F	d	M	G
A(C)4X13C8.1	40.5	89	φ40	φ20	M6			φ35	φ15	M6		
A(C)5X13C8.1	41.3	90.5	φ40	φ20	M6			φ35	φ15	M6		
A(C)6X13C8.1	42	92	φ40	φ20	M6			φ35	φ15	M6		
A(C)9X13C8.1	44	96	φ40	φ20	M6			φ35	φ15	M6		
A(C)10X13C8.1	45	98	φ40	φ20	M6			φ35	φ15	M6		
A(C)11X13C8.1	46	100	φ40	φ20	M6			φ35	φ15	M6		
A(C)12X13C8.1	47	102	φ40	φ20	M6			φ35	φ15	M6		
A(C)14X13C8.1	49	106	φ40	φ20	M6			φ35	φ15	M6		
A(C)15X13C8.1	50	107.5	φ40	φ20	M6			φ35	φ15	M6		
A(C)16X13C8.1	50.5	109	φ40	φ20	M6			φ35	φ15	M6		
A(C)17X13C8.1	51	110	φ40	φ20	M6			φ35	φ15	M6		
A(C)19X13C8.1	53	114	φ40	φ20	M6			φ35	φ15	M6		
A(C)22X13C8.1	56	120	φ40	φ20	M6			φ35	φ15	M6		
A(C)25X13C8.1	58	123.5	φ40	φ20	M6			φ35	φ15	M6		
A(C)26X13C8.1	58.5	125	φ40	φ20	M6			φ35	φ15	M6		

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The diagram illustrates the circular flow of funds between the real sector and the financial sector. It features a central circle with four quadrants, each containing a number (1, 2, 3, 4) and a label (A, B, C, D). Arrows indicate the flow of funds between these quadrants and the surrounding sectors. The top quadrant (1) is labeled 'A' and the bottom quadrant (3) is labeled 'C'. The left quadrant (2) is labeled 'B' and the right quadrant (4) is labeled 'D'. The top and bottom quadrants are connected to the 'Real Sector' (labeled 'd' on the left) and the 'Financial Sector' (labeled 'F' on the right). The left and right quadrants are connected to the 'Real Sector' (labeled 'd' on the left) and the 'Financial Sector' (labeled 'F' on the right). The diagram shows the flow of funds between the real sector and the financial sector, and between the four quadrants of the central circle.

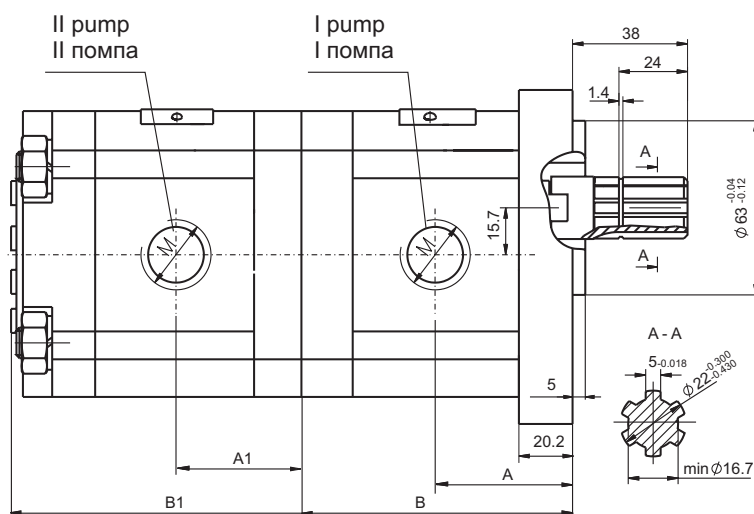
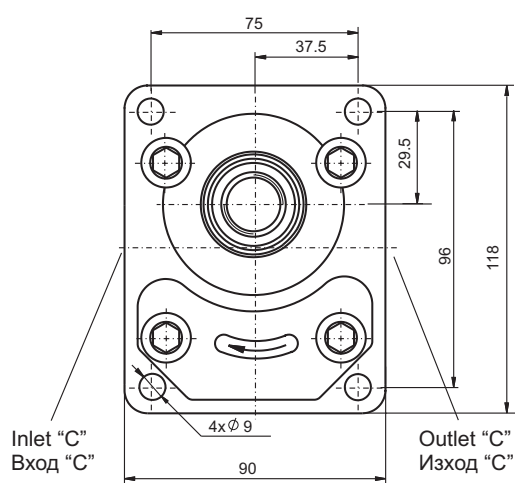
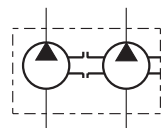
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II pump II помпа												
Type Тип	Dimensions Размери						mm					
	A1	B1	Inlet Вход					Outlet Изход				
			E	F	d	M	G	E	F	d	M	G
A(C)4X13C8.1	40.5	89	φ40	φ20	M6			φ35	φ15	M6		
A(C)5X13C8.1	41.3	90.5	φ40	φ20	M6			φ35	φ15	M6		
A(C)6X13C8.1	42	92	φ40	φ20	M6			φ35	φ15	M6		
A(C)9X13C8.1	44	96	φ40	φ20	M6			φ35	φ15	M6		
A(C)10X13C8.1	45	98	φ40	φ20	M6			φ35	φ15	M6		
A(C)11X13C8.1	46	100	φ40	φ20	M6			φ35	φ15	M6		
A(C)12X13C8.1	47	102	φ40	φ20	M6			φ35	φ15	M6		
A(C)14X13C8.1	49	106	φ40	φ20	M6			φ35	φ15	M6		
A(C)15X13C8.1	50	107.5	φ40	φ20	M6			φ35	φ15	M6		
A(C)16X13C8.1	50.5	109	φ40	φ20	M6			φ35	φ15	M6		
A(C)17X13C8.1	51	110	φ40	φ20	M6			φ35	φ15	M6		
A(C)19X13C8.1	53	114	φ40	φ20	M6			φ35	φ15	M6		
A(C)22X13C8.1	56	120	φ40	φ20	M6			φ35	φ15	M6		
A(C)25X13C8.1	58	123.5	φ40	φ20	M6			φ35	φ15	M6		
A(C)26X13C8.1	58.5	125	φ40	φ20	M6			φ35	φ15	M6		

TANDEM GROUP II + II / СДВОЕНИ ГРУПА II + II

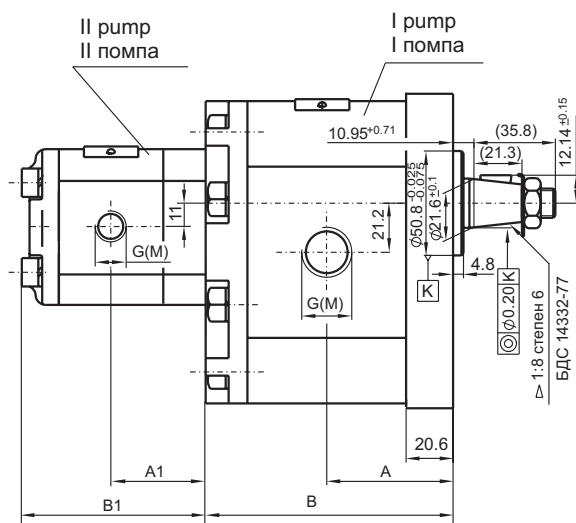
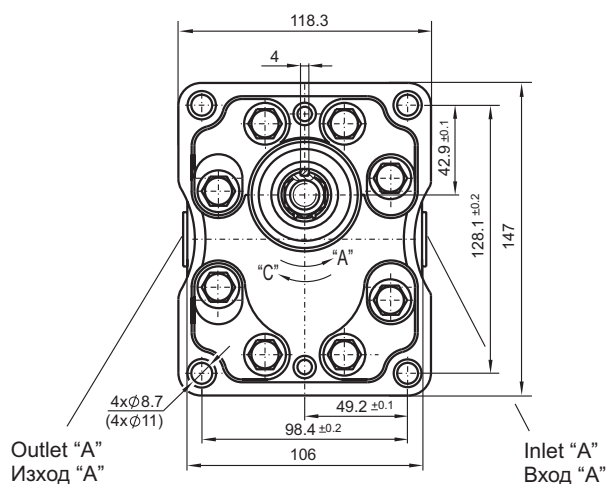
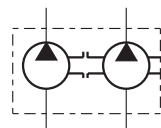
A(C)...X10M8-B1/A(C)...X13M8.1-B P_n=250 bar
 A(C)...X10M8-1/A(C)...X13M8.1 P_n=200 bar



I pump I помпа												
Type Тип	Dimensions Размери mm											
	A	B	Inlet Вход					Outlet Изход				
			E	F	d	M	G	E	F	d	M	G
A(C)4X10M8-1	43.5	84.2				M18x1.5						M12x1.5
A(C)5X10M8-1	44.5	85.7				M18x1.5						M12x1.5
A(C)6X10M8-1	45.2	87.2				M18x1.5						M12x1.5
A(C)9X10M8-1	47.2	91.2				M18x1.5						M12x1.5
A(C)10X10M8-1	48.2	93.2				M22x1.5						M14x1.5
A(C)11X10M8-1	49.2	95.2				M22x1.5						M14x1.5
A(C)12X10M8-1	50.2	97.2				M22x1.5						M14x1.5
A(C)14X10M8-1	52.2	101.2				M27x1.5						M18x1.5
A(C)15X10M8-1	53	102.7				M27x1.5						M18x1.5
A(C)16X10M8-1	53.7	104.2				M27x1.5						M18x1.5
A(C)17X10M8-1	54.2	105.2				M27x1.5						M18x1.5
A(C)19X10M8-1	56.2	109.2				M27x1.5						M18x1.5
A(C)22X10M8-1	59.2	115.2				M27x1.5						M18x1.5
A(C)25X10M8-1	61	118.7				M27x1.5						M18x1.5
A(C)26X10M8-1	61.7	120.2				M27x1.5						M18x1.5

II pump II помпа												
Type Тип	Dimensions Размери mm											
	A1	B1	Inlet Вход					Outlet Изход				
			E	F	d	M	G	E	F	d	M	G
A(C)4X13M8.1	40.5	89				M18x1.5					M12x1.5	
A(C)5X13M8.1	41.3	90.5				M18x1.5					M12x1.5	
A(C)6X13M8.1	42	92				M18x1.5					M12x1.5	
A(C)9X13M8.1	44	96				M18x1.5					M12x1.5	
A(C)10X13M8.1	45	98				M22x1.5					M14x1.5	
A(C)11X13M8.1	46	100				M22x1.5					M14x1.5	
A(C)12X13M8.1	47	102				M22x1.5					M14x1.5	
A(C)14X13M8.1	49	106				M27x1.5					M18x1.5	
A(C)15X13M8.1	50	107.5				M27x1.5					M18x1.5	
A(C)16X13M8.1	50.5	109				M27x1.5					M18x1.5	
A(C)17X13M8.1	51	110				M27x1.5					M18x1.5	
A(C)19X13M8.1	53	114				M27x1.5					M18x1.5	
A(C)22X13M8.1	56	120				M27x1.5					M18x1.5	
A(C)25X13M8.1	58	123.5				M27x1.5					M18x1.5	
A(C)26X13M8.1	58.5	125				M27x1.5					M18x1.5	

A(C)43...94X...3 / A(C)1...7X...3



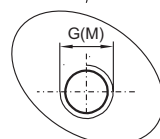
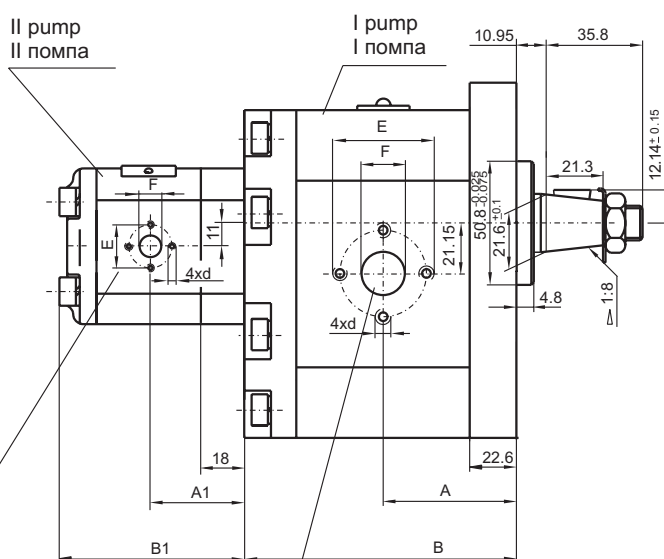
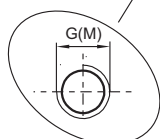
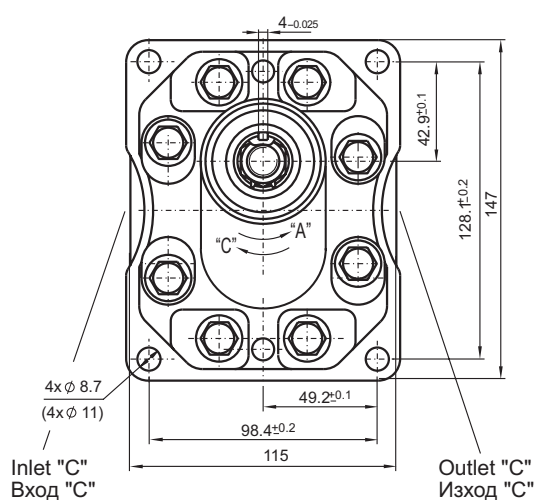
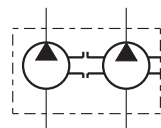
I pump I помпа												
Type Тип	Dimensions Размери mm											
	A	B	Inlet Вход					Outlet Изход				
			E	F	d	M	G	E	F	d	M	G
A(C)43X...3	52	103.3				M27x1.5	G3/4"				M27x1.5	G3/4"
A(C)54X...3	52	103.3				M27x1.5	G3/4"				M27x1.5	G3/4"
A(C)72X...3	60	119.3				M33x1.5	G1"				M27x1.5	G3/4"
A(C)94X...3	60	119.3				M33x1.5	G1"				M27x1.5	G3/4"

II pump II помпа												
Type Тип	Dimensions Размери mm											
	A1	B1	Inlet Вход					Outlet Изход				
			E	F	d	M	G	E	F	d	M	G
A(C)1X...3	39.1	81.2				M16x1.5	G3/8"				M16x1.5	G3/8"
A(C)1.25X...3	39.6	82.2				M16x1.5	G3/8"				M16x1.5	G3/8"
A(C)1.6X...3	40.3	83.6				M16x1.5	G3/8"				M16x1.5	G3/8"
A(C)2X...3	41.1	85.2				M16x1.5	G3/8"				M16x1.5	G3/8"
A(C)2.5X...3	42.1	87.2				M16x1.5	G3/8"				M16x1.5	G3/8"
A(C)3.15X...3	43.4	89.9				M20x1.5	G1/2"				M16x1.5	G3/8"
A(C)3.65X...3	44.4	91.8				M20x1.5	G1/2"				M16x1.5	G3/8"
A(C)4.2X...3	45.5	94				M20x1.5	G1/2"				M16x1.5	G3/8"
A(C)5.1X...3	47.1	97.2				M20x1.5	G1/2"				M16x1.5	G3/8"
A(C)5.7X...3	48.5	100				M20x1.5	G1/2"				M16x1.5	G3/8"
A(C)6.1X...3	49.4	101.8				M20x1.5	G1/2"				M16x1.5	G3/8"
A(C)7X...3	51.2	105.5				M20x1.5	G1/2"				M16x1.5	G3/8"

A(C)...XTM3/A(C)...XTM3 - metric thread "M"
A(C)...XT3/A(C)...XT3 - GAS thread "G"

TANDEM GROUP 30 + I / СДВОЕНИ ГРУПА 30 + I

31A(C)...X068N... / A(C)1...7X3...05-B
31A(C)...X068N... V/A(C)1...7X3...05-B



Type Тип	I pump I помпа											
	Dimensions Размери mm											
	A	B	Inlet Вход				Outlet Изход					
			E	F	d	M	G	E	F	d	M	G
31A(C)20X068N...	56.1	112.7	φ39.7	φ19	M8	M27x1.5	G3/4"	φ39.7	φ19	M8	M27x1.5	G3/4"
31A(C)25X068N...	58.3	117.1	φ39.7	φ19	M8	M27x1.5	G3/4"	φ39.7	φ19	M8	M27x1.5	G3/4"
31A(C)28X068N...	60.2	120.7	φ39.7	φ19	M8	M27x1.5	G3/4"	φ39.7	φ19	M8	M27x1.5	G3/4"
31A(C)32X068N...	62	124.3	φ50.8	φ27	M10	M33x1.5	G1"	φ39.7	φ19	M8	M27x1.5	G3/4"
31A(C)36X068N...	63.5	127.4	φ50.8	φ27	M10	M33x1.5	G1"	φ39.7	φ19	M8	M27x1.5	G3/4"
31A(C)42X068N...	66.4	133.1	φ50.8	φ27	M10	M33x1.5	G1"	φ39.7	φ19	M8	M27x1.5	G3/4"
31A(C)46X068N...	68.2	136.8	φ50.8	φ27	M10	M33x1.5	G1"	φ39.7	φ19	M8	M27x1.5	G3/4"
31A(C)50X068N...	70	140.4	φ50.8	φ27	M10	M33x1.5	G1"	φ39.7	φ19	M8	M27x1.5	G3/4"
31A(C)55X068N...	72.2	144.9	φ50.8	φ27	M10	M33x1.5	G1"	φ39.7	φ19	M8	M27x1.5	G3/4"

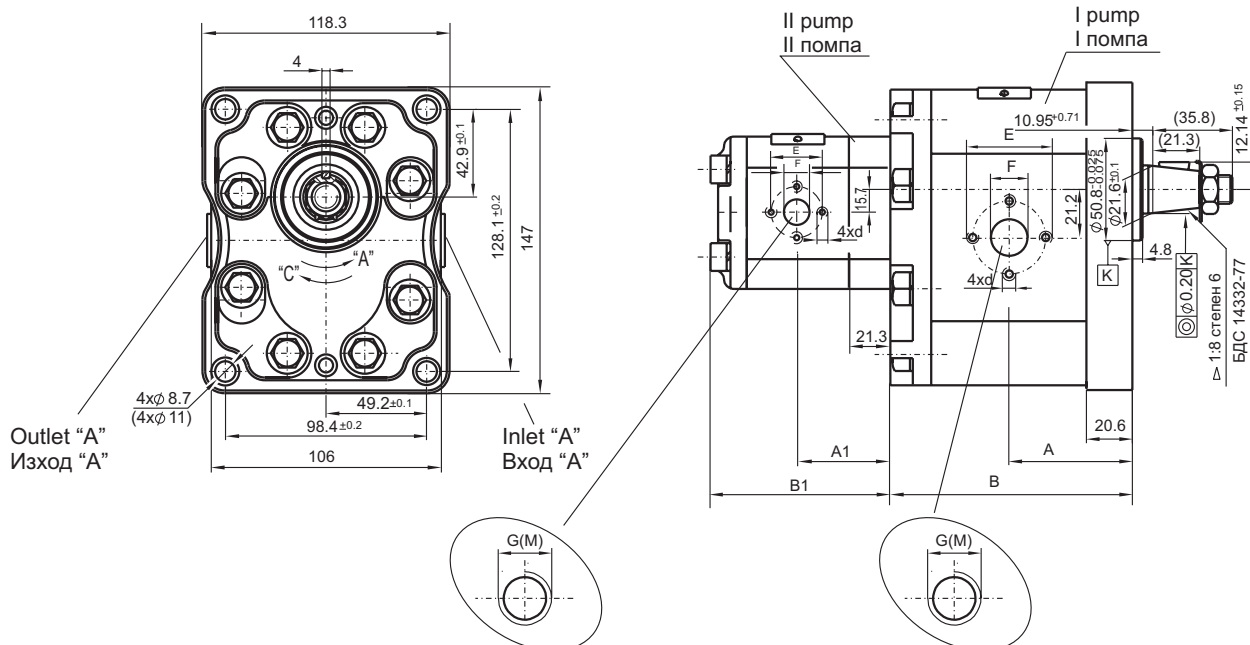
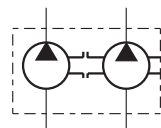
Type Тип	II pump II помпа											
	Dimensions Размери mm											
	A1	B1	Inlet Вход				Outlet Изход					
			E	F	d	M	G	E	F	d	M	G
A(C)1X3...05-B	39.1	78.2	φ30	φ12	M6	M16x1.5	G3/8"	φ30	φ12	M6	M16x1.5	G3/8"
A(C)1.25X3...05-B	39.6	79.2	φ30	φ12	M6	M16x1.5	G3/8"	φ30	φ12	M6	M16x1.5	G3/8"
A(C)1.6X3...05-B	40.3	80.6	φ30	φ12	M6	M16x1.5	G3/8"	φ30	φ12	M6	M16x1.5	G3/8"
A(C)2X3...05-B	41.1	82.2	φ30	φ12	M6	M16x1.5	G3/8"	φ30	φ12	M6	M16x1.5	G3/8"
A(C)2.5X3...05-B	42.1	84.2	φ30	φ12	M6	M16x1.5	G3/8"	φ30	φ12	M6	M16x1.5	G3/8"
A(C)3.15X3...05-B	43.4	86.9	φ30	φ12	M6	M20x1.5	G1/2"	φ30	φ12	M6	M16x1.5	G3/8"
A(C)3.65X3...05-B	44.4	88.8	φ30	φ12	M6	M20x1.5	G1/2"	φ30	φ12	M6	M16x1.5	G3/8"
A(C)4.2X3...05-B	45.5	91	φ30	φ12	M6	M20x1.5	G1/2"	φ30	φ12	M6	M16x1.5	G3/8"
A(C)5.1X3...05-B	47.1	94.2	φ30	φ12	M6	M20x1.5	G1/2"	φ30	φ12	M6	M16x1.5	G3/8"
A(C)5.7X3...05-B	48.5	97	φ30	φ12	M6	M20x1.5	G1/2"	φ30	φ12	M6	M16x1.5	G3/8"
A(C)6.1X3...05-B	49.4	98.8	φ30	φ12	M6	M20x1.5	G1/2"	φ30	φ12	M6	M16x1.5	G3/8"
A(C)7X3...05-B	51.2	102.5	φ30	φ12	M6	M20x1.5	G1/2"	φ30	φ12	M6	M16x1.5	G3/8"

31A(C)...X068N(V)/A(C)...X3A05-B-normal

31A(C)...X068NM(V)/A(C)...X3M05-(B)-metric thread "M"

31A(C)...X068NT(V)/A(C)...X3T05-(B)-GAS thread "G"

A(C)43...94X2 / A(C)4...26X2



I pump I помпа												
Type Тип	Dimensions Размери mm											
	A	B	Inlet Вход					Outlet Исход				
			E	F	d	M	G	E	F	d	M	G
A(C)43X2	52	103.3	ø39.7	ø19	M8	M27x1.5	G3/4"	ø39.7	ø19	M8	M27x1.5	G3/4"
A(C)54X2	52	103.3	ø39.7	ø19	M8	M27x1.5	G3/4"	ø39.7	ø19	M8	M27x1.5	G3/4"
A(C)72X2	60	119.3	ø50.8	ø27	M10	M33x1.5	G1"	ø39.7	ø19	M8	M27x1.5	G3/4"
A(C)94X2	60	119.3	ø50.8	ø27	M10	M33x1.5	G1"	ø39.7	ø19	M8	M27x1.5	G3/4"

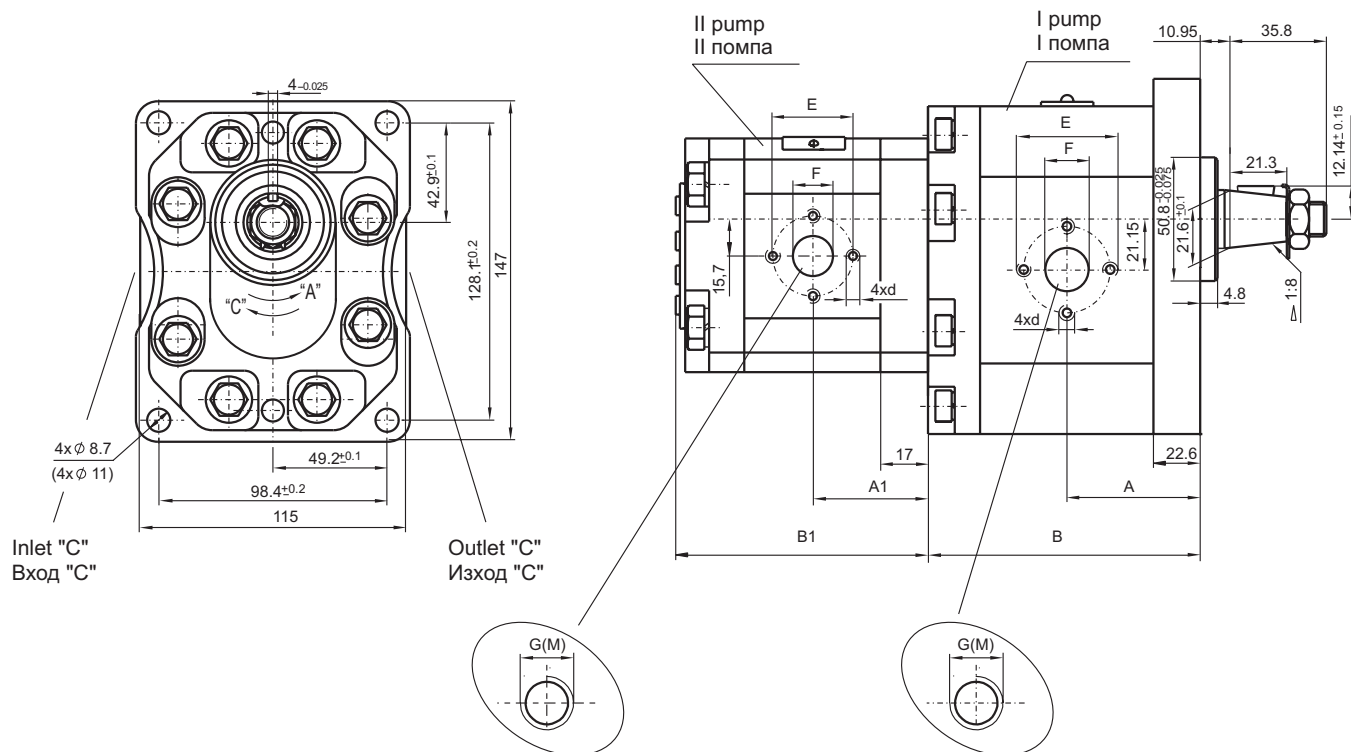
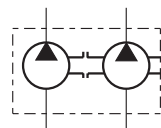
II pump II помпа												
Type Тип	Dimensions Размери mm											
	A1	B1	Inlet Вход					Outlet Исход				
			E	F	d	M	G	E	F	d	M	G
A(C)4X2	44.8	93.3	φ30.2	φ13.1	M6	M20x1.5	G1/2"	φ30.2	φ13.1	M6	M16x1.5	G1/2"
A(C)5X2	45.6	94.8	φ30.2	φ13.1	M6	M20x1.5	G1/2"	φ30.2	φ13.1	M6	M16x1.5	G1/2"
A(C)6X2	46.3	96.3	φ30.2	φ13.1	M6	M20x1.5	G1/2"	φ30.2	φ13.1	M6	M16x1.5	G1/2"
A(C)9X2	48.3	100.3	φ30.2	φ13.1	M6	M20x1.5	G1/2"	φ30.2	φ13.1	M6	M16x1.5	G1/2"
A(C)10X2	49.3	102.3	φ39.7	φ19	M8	M20x1.5	G3/4"	φ30.2	φ14.2	M6	M16x1.5	G1/2"
A(C)11X2	50.3	104.3	φ39.7	φ19	M8	M20x1.5	G3/4"	φ30.2	φ14.2	M6	M16x1.5	G1/2"
A(C)12X2	51.3	106.3	φ39.7	φ19	M8	M20x1.5	G3/4"	φ30.2	φ14.2	M6	M16x1.5	G1/2"
A(C)14X2	53.3	110.3	φ39.7	φ19	M8	M20x1.5	G3/4"	φ30.2	φ14.2	M6	M16x1.5	G1/2"
A(C)15X2	54	111.8	φ39.7	φ19	M8	M20x1.5	G3/4"	φ30.2	φ14.2	M6	M16x1.5	G1/2"
A(C)16X2	54.8	113.3	φ39.7	φ19	M8	M20x1.5	G3/4"	φ30.2	φ14.2	M6	M16x1.5	G1/2"
A(C)17X2	55.3	114.3	φ39.7	φ19	M8	M20x1.5	G3/4"	φ30.2	φ14.2	M6	M16x1.5	G1/2"
A(C)19X2	57.3	118.3	φ39.7	φ19	M8	M20x1.5	G3/4"	φ30.2	φ14.2	M6	M16x1.5	G1/2"
A(C)22X2	60.3	124.3	φ39.7	φ19	M8	M20x1.5	G3/4"	φ30.2	φ14.2	M6	M20x1.5	G1/2"
A(C)25X2	62	127.3	φ39.7	φ19	M8	M20x1.5	G3/4"	φ30.2	φ14.2	M6	M20x1.5	G1/2"
A(C)26X2	62.8	129.3	φ39.7	φ19	M8	M20x1.5	G3/4"	φ30.2	φ14.2	M6	M20x1.5	G1/2"

A(C)...X2/A(C)...X2-normal

A(C)...X2TM/A(C)...X2TM-metric thread "M"

A(C)...X2T/A(C)...X2T-GAS thread "G"

32A(C)20...55X068N... / A(C)4...26X13.4...8.1-B
 32A(C)20...55X068N...V / A(C)4...26X13.4...8.1-B

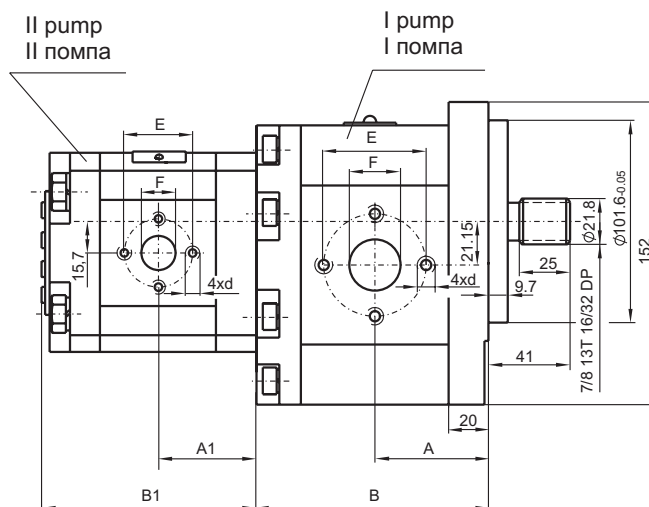
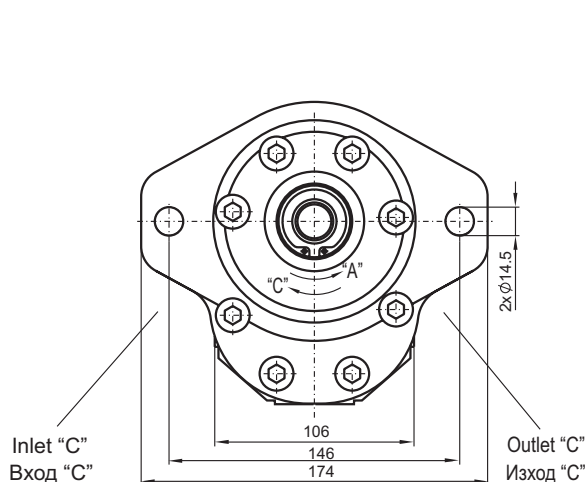
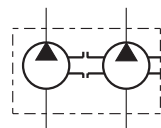


I pump I помпа												
Type Тип	Dimensions Размери mm											
	A	B	Inlet Вход					Outlet Изход				
			E	F	d	M	G	E	F	d	M	G
32A(C)20X068N...	56.1	109.7	φ39.7	φ19	M8	M27x1.5	G3/4"	φ39.7	φ19	M8	M27x1.5	G3/4"
32A(C)25X068N...	58.3	114.1	φ39.7	φ19	M8	M27x1.5	G3/4"	φ39.7	φ19	M8	M27x1.5	G3/4"
32A(C)28X068N...	60.2	117.7	φ39.7	φ19	M8	M27x1.5	G3/4"	φ39.7	φ19	M8	M27x1.5	G3/4"
32A(C)32X068N...	62	121.3	φ50.8	φ27	M10	M33x1.5	G1"	φ39.7	φ19	M8	M27x1.5	G3/4"
32A(C)36X068N...	63.5	124.4	φ50.8	φ27	M10	M33x1.5	G1"	φ39.7	φ19	M8	M27x1.5	G3/4"
32A(C)42X068N...	66.4	130.1	φ50.8	φ27	M10	M33x1.5	G1"	φ39.7	φ19	M8	M27x1.5	G3/4"
32A(C)46X068N...	68.2	133.8	φ50.8	φ27	M10	M33x1.5	G1"	φ39.7	φ19	M8	M27x1.5	G3/4"
32A(C)50X068N...	70	137.4	φ50.8	φ27	M10	M33x1.5	G1"	φ39.7	φ19	M8	M27x1.5	G3/4"
32A(C)55X068N...	72.2	141.9	φ50.8	φ27	M10	M33x1.5	G1"	φ39.7	φ19	M8	M27x1.5	G3/4"

II pump II помпа														
Type Тип	Dimensions Размери mm													
	A1	B1	Inlet Вход					Outlet Изход						
			E	F	d	M	G	E	F	d	M	G		
A(C)4X13.4...8.1-B	40.5	89	φ30.2	φ13.1	M6	M20x1.5	G1/2"	φ30.2	φ13.1	M6	M16x1.5	G1/2"		
A(C)5X13.4...8.1-B	41.3	90.5	φ30.2	φ13.1	M6	M20x1.5	G1/2"	φ30.2	φ13.1	M6	M16x1.5	G1/2"		
A(C)6X13.4...8.1-B	42	92	φ30.2	φ13.1	M6	M20x1.5	G1/2"	φ30.2	φ13.1	M6	M16x1.5	G1/2"		
A(C)9X13.4...8.1-B	44	96	φ30.2	φ13.1	M6	M20x1.5	G1/2"	φ30.2	φ13.1	M6	M16x1.5	G1/2"		
A(C)10X13.4...8.1-B	45	98	φ39.7	φ19	M8	M20x1.5	G3/4"	φ30.2	φ14.2	M6	M16x1.5	G1/2"		
A(C)11X13.4...8.1-B	46	100	φ39.7	φ19	M8	M20x1.5	G3/4"	φ30.2	φ14.2	M6	M16x1.5	G1/2"		
A(C)12X13.4...8.1-B	47	102	φ39.7	φ19	M8	M20x1.5	G3/4"	φ30.2	φ14.2	M6	M16x1.5	G1/2"		
A(C)14X13.4...8.1-B	49	106	φ39.7	φ19	M8	M20x1.5	G3/4"	φ30.2	φ14.2	M6	M16x1.5	G1/2"		
A(C)15X13.4...8.1-B	50	107.5	φ39.7	φ19	M8	M20x1.5	G3/4"	φ30.2	φ14.2	M6	M16x1.5	G1/2"		
A(C)16X13.4...8.1-B	50.5	109	φ39.7	φ19	M8	M20x1.5	G3/4"	φ30.2	φ14.2	M6	M16x1.5	G1/2"		
A(C)17X13.4...8.1-B	51	110	φ39.7	φ19	M8	M20x1.5	G3/4"	φ30.2	φ14.2	M6	M16x1.5	G1/2"		
A(C)19X13.4...8.1-B	53	114	φ39.7	φ19	M8	M20x1.5	G3/4"	φ30.2	φ14.2	M6	M16x1.5	G1/2"		
A(C)22X13.4...8.1-B	56	120	φ39.7	φ19	M8	M20x1.5	G3/4"	φ30.2	φ14.2	M6	M20x1.5	G1/2"		
A(C)25X13.4...8.1-B	58	123.5	φ39.7	φ19	M8	M20x1.5	G3/4"	φ30.2	φ14.2	M6	M20x1.5	G1/2"		
A(C)26X13.4...8.1-B	58.5	125	φ39.7	φ19	M8	M20x1.5	G3/4"	φ30.2	φ14.2	M6	M20x1.5	G1/2"		

30A(C)...X068N(V)/A(C)...X13.4A8.1-B- normal
 30A(C)...X068NM(V)/A(C)...X13.4M8.1-B-metric thread "M"
 30A(C)...X068NT(V)/A(C)...X13.4T8.1-B-GAS thread "G"

32A(C)...X014.1N / A(C)...X13.4A8.1-B
 32A(C)...X014.1NV / A(C)...X13.4A8.1-B

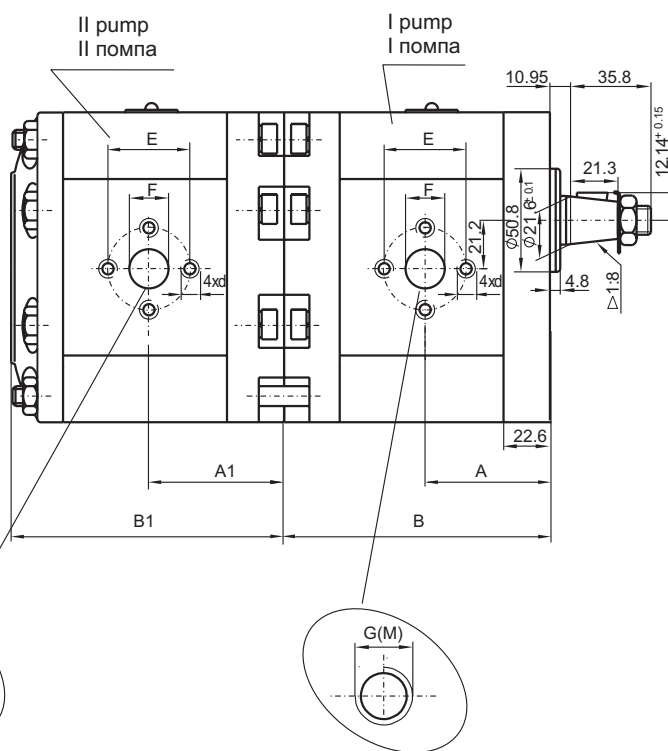
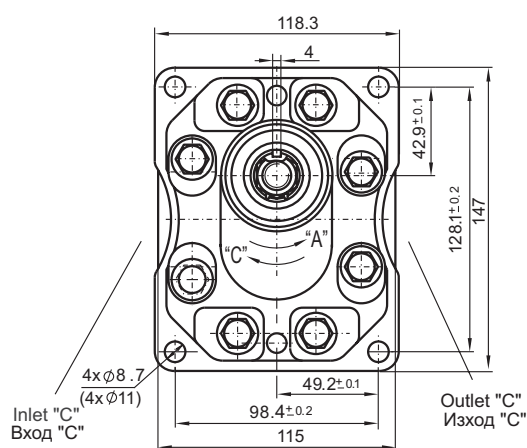
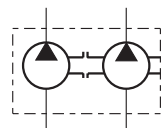


I pump I помпа												
Type Тип	Dimensions Размери mm											
	A	B	Inlet Вход					Outlet Изход				
			E	F	d	M	G	E	F	d	M	G
32A(C)20X014.1N	53.5	107.1	ø39.7	ø19	M8			ø39.7	ø19	M8		
32A(C)25X014.1N	55.7	111.5	ø39.7	ø19	M8			ø39.7	ø19	M8		
32A(C)28X014.1N	57.6	115.1	ø39.7	ø19	M8			ø39.7	ø19	M8		
32A(C)32X014.1N	59.4	118.7	ø50.8	ø27	M10			ø39.7	ø19	M8		
32A(C)36X014.1N	61	121.8	ø50.8	ø27	M10			ø39.7	ø19	M8		
32A(C)42X014.1N	63.8	127.5	ø50.8	ø27	M10			ø39.7	ø19	M8		
32A(C)46X014.1N	65.6	131.2	ø50.8	ø27	M10			ø39.7	ø19	M8		
32A(C)50X014.1N	67.4	134.8	ø50.8	ø27	M10			ø39.7	ø19	M8		
32A(C)55X014.1N	69.7	139.3	ø50.8	ø27	M10			ø39.7	ø19	M8		

II pump II помпа												
Type Тип	Dimensions Размери mm											
	A1	B1	Inlet Вход					Outlet Изход				
			E	F	d	M	G	E	F	d	M	G
A/C)4X13.4A8.1-B	40.5	89	ø 30.2	ø13.1	M6			ø30.2	ø13.1	M6		
A/C)5X13.4A8.1-B	41.3	90.5	ø 30.2	ø13.1	M6			ø30.2	ø13.1	M6		
A/C)6X13.4A8.1-B	42	92	ø 30.2	ø13.1	M6			ø30.2	ø13.1	M6		
A/C)9X13.4A8.1-B	44	96	ø 30.2	ø13.1	M6			ø30.2	ø13.1	M6		
A/C)10X13.4A8.1-B	45	98	ø 39.7	ø19	M8			ø30.2	ø14.2	M6		
A/C)11X13.4A8.1-B	46	100	ø 39.7	ø19	M8			ø30.2	ø14.2	M6		
A/C)12X13.4A8.1-B	47	102	ø 39.7	ø19	M8			ø30.2	ø14.2	M6		
A/C)14X13.4A8.1-B	49	106	ø 39.7	ø19	M8			ø30.2	ø14.2	M6		
A/C)15X13.4A8.1-B	50	107.5	ø 39.7	ø19	M8			ø30.2	ø14.2	M6		
A/C)16X13.4A8.1-B	50.5	109	ø 39.7	ø19	M8			ø30.2	ø14.2	M6		
A/C)17X13.4A8.1-B	51	110	ø 39.7	ø19	M8			ø30.2	ø14.2	M6		
A/C)19X13.4A8.1-B	53	114	ø 39.7	ø19	M8			ø30.2	ø14.2	M6		
A/C)22X13.4A8.1-B	56	120	ø 39.7	ø19	M8			ø30.2	ø14.2	M6		
A/C)25X13.4A8.1-B	58	123.5	ø 39.7	ø19	M8			ø30.2	ø14.2	M6		
A/C)26X13.4A8.1-B	58.5	125	ø 39.7	ø19	M8			ø30.2	ø14.2	M6		

TANDEM GROUP 30+30 / СДВОЕНИ ГРУПА 30+30

30A(C)...X068N...-1 / 30A(C)...X068N...-2
30A(C)...X068N...V-1 / 30A(C)...X068N...V-2



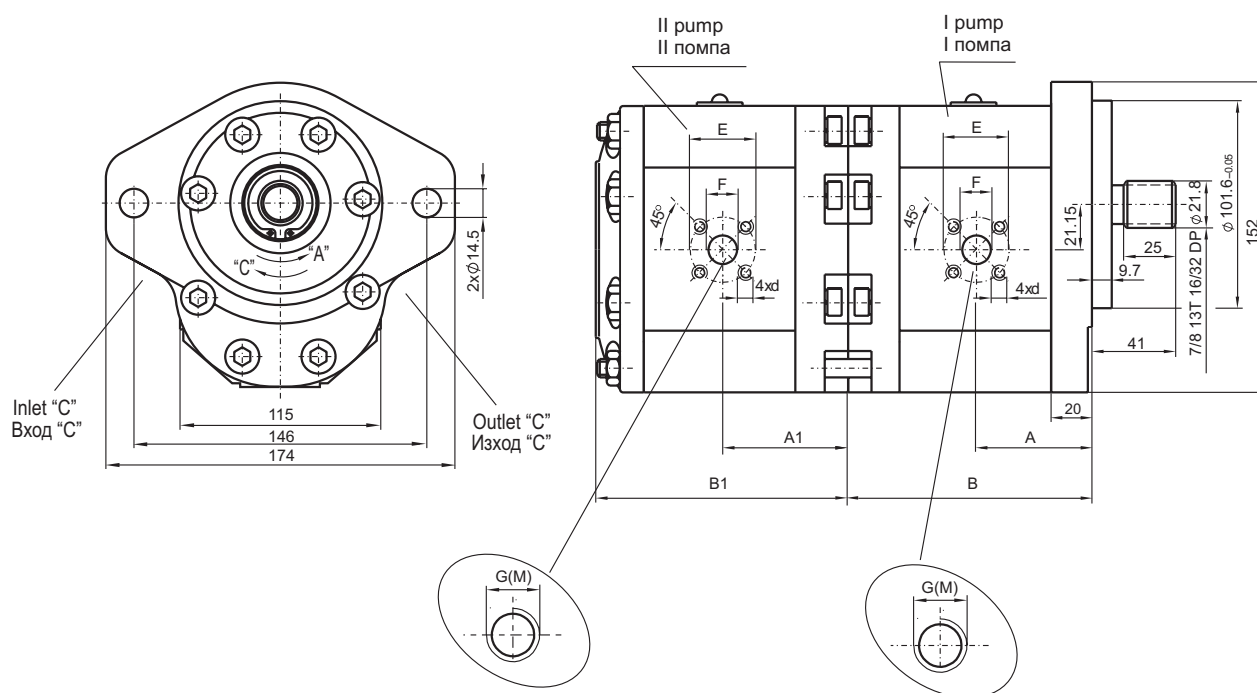
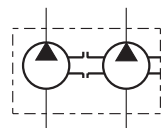
Type Тип	I pump I помпа											
	Dimensions Размери mm											
	Inlet Вход						Outlet Изход					
	A	B	E	F	d	M	G	E	F	d	M	G
30A(C)20X068N...-1	56.1	112.7	φ39.7	φ19	M8	M27x1.5	G3/4"	φ39.7	φ19	M8	M27x1.5	G3/4"
30A(C)25X068N...-1	58.3	117.1	φ39.7	φ19	M8	M27x1.5	G3/4"	φ39.7	φ19	M8	M27x1.5	G3/4"
30A(C)28X068N...-1	60.2	120.7	φ39.7	φ19	M8	M27x1.5	G3/4"	φ39.7	φ19	M8	M27x1.5	G3/4"
30A(C)32X068N...-1	62	124.3	φ50.8	φ27	M10	M33x1.5	G1"	φ39.7	φ19	M8	M27x1.5	G3/4"
30A(C)36X068N...-1	63.5	127.4	φ50.8	φ27	M10	M33x1.5	G1"	φ39.7	φ19	M8	M27x1.5	G3/4"
30A(C)42X068N...-1	66.4	133.1	φ50.8	φ27	M10	M33x1.5	G1"	φ39.7	φ19	M8	M27x1.5	G3/4"
30A(C)46X068N...-1	68.2	136.8	φ50.8	φ27	M10	M33x1.5	G1"	φ39.7	φ19	M8	M27x1.5	G3/4"
30A(C)50X068N...-1	70	140.4	φ50.8	φ27	M10	M33x1.5	G1"	φ39.7	φ19	M8	M27x1.5	G3/4"
30A(C)55X068N...-1	72.2	144.9	φ50.8	φ27	M10	M33x1.5	G1"	φ39.7	φ19	M8	M27x1.5	G3/4"

Type Тип	II pump II помпа											
	Dimensions Размери mm											
	Inlet Вход						Outlet Изход					
	A1	B1	E	F	d	M	G	E	F	d	M	G
30A(C)20X068N...-2	60.5	118.1	φ39.7	φ19	M8	M27x1.5	G3/4"	φ39.7	φ19	M8	M27x1.5	G3/4"
30A(C)25X068N...-2	62.7	122.5	φ39.7	φ19	M8	M27x1.5	G3/4"	φ39.7	φ19	M8	M27x1.5	G3/4"
30A(C)28X068N...-2	64.6	126.1	φ39.7	φ19	M8	M27x1.5	G3/4"	φ39.7	φ19	M8	M27x1.5	G3/4"
30A(C)32X068N...-2	66.4	129.7	φ50.8	φ27	M10	M33x1.5	G1"	φ39.7	φ19	M8	M27x1.5	G3/4"
30A(C)36X068N...-2	68	132.8	φ50.8	φ27	M10	M33x1.5	G1"	φ39.7	φ19	M8	M27x1.5	G3/4"
30A(C)42X068N...-2	70.8	138.5	φ50.8	φ27	M10	M33x1.5	G1"	φ39.7	φ19	M8	M27x1.5	G3/4"
30A(C)46X068N...-2	72.6	142.2	φ50.8	φ27	M10	M33x1.5	G1"	φ39.7	φ19	M8	M27x1.5	G3/4"
30A(C)50X068N...-2	74.4	145.8	φ50.8	φ27	M10	M33x1.5	G1"	φ39.7	φ19	M8	M27x1.5	G3/4"
30A(C)55X068N...-2	76.7	150.3	φ50.8	φ27	M10	M33x1.5	G1"	φ39.7	φ19	M8	M27x1.5	G3/4"

30A(C)...X068N(V)-1/ 30A(C)...X068N(V)-2 - normal
30A(C)...X068NM(V)-1/ 30A(C)...X068NM(V)-2 - metric thread "M"
30A(C)...X068NT(V)-1/ 30A(C)...X068NT(V)-2 - GAS thread "G"

TANDEM GROUP 30+30 / СДВОЕНИ ГРУПА 30+30

30A(C)...X014N...-1 / 30A(C)...X0...N...-2
 30A(C)...X014N...V-1 / 30A(C)...X0...N...V-2

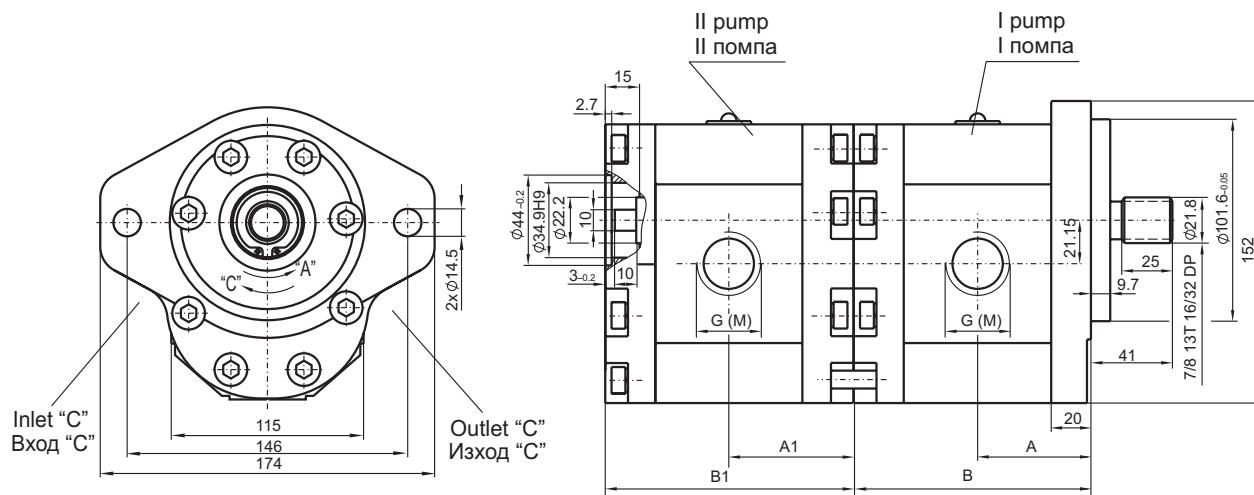
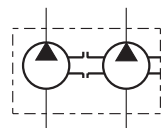


I pump I помпа													
Type Тип	Dimensions Размери mm												
	A B		Inlet Вход					Outlet Изход					
			E	F	d	M	G	E	F	d	M	G	
30A(C)20X014N...-1	53.5	110.1	Ø55	Ø26	M8	M27x1.5	G3/4"	Ø55	Ø18	M8	M27x1.5	G3/4"	
30A(C)25X014N...-1	55.7	114.5	Ø55	Ø26	M8	M27x1.5	G3/4"	Ø55	Ø18	M8	M27x1.5	G3/4"	
30A(C)28X014N...-1	57.6	118.1	Ø55	Ø26	M8	M27x1.5	G3/4"	Ø55	Ø18	M8	M27x1.5	G3/4"	
30A(C)32X014N...-1	59.4	121.7	Ø55	Ø26	M8	M33x1.5	G1"	Ø55	Ø18	M8	M27x1.5	G3/4"	
30A(C)36X014N...-1	61	124.8	Ø55	Ø26	M8	M33x1.5	G1"	Ø55	Ø18	M8	M27x1.5	G3/4"	
30A(C)42X014N...-1	63.8	130.5	Ø55	Ø26	M8	M33x1.5	G1"	Ø55	Ø18	M8	M27x1.5	G3/4"	
30A(C)46X014N...-1	65.6	134.2	Ø55	Ø26	M8	M33x1.5	G1"	Ø55	Ø18	M8	M27x1.5	G3/4"	
30A(C)50X014N...-1	67.4	137.8	Ø55	Ø26	M8	M33x1.5	G1"	Ø55	Ø18	M8	M27x1.5	G3/4"	
30A(C)55X014N...-1	69.7	141.3	Ø55	Ø26	M8	M33x1.5	G1"	Ø55	Ø18	M8	M27x1.5	G3/4"	

II pump II помпа													
Type Тип	Dimensions Размери mm												
	A1 B1		Inlet Вход					Outlet Изход					
			E	F	d	M	G	E	F	d	M	G	
30A(C)20X014N...-2	60.5	118.1	Ø55	Ø26	M8	M27x1.5	G3/4"	Ø55	Ø18	M8	M27x1.5	G3/4"	
30A(C)25X014N...-2	62.7	122.5	Ø55	Ø26	M8	M27x1.5	G3/4"	Ø55	Ø18	M8	M27x1.5	G3/4"	
30A(C)28X014N...-2	64.6	126.1	Ø55	Ø26	M8	M27x1.5	G3/4"	Ø55	Ø18	M8	M27x1.5	G3/4"	
30A(C)32X014N...-2	66.4	129.7	Ø55	Ø26	M8	M33x1.5	G1"	Ø55	Ø18	M8	M27x1.5	G3/4"	
30A(C)36X014N...-2	68	132.8	Ø55	Ø26	M8	M33x1.5	G1"	Ø55	Ø18	M8	M27x1.5	G3/4"	
30A(C)42X014N...-2	70.8	138.5	Ø55	Ø26	M8	M33x1.5	G1"	Ø55	Ø18	M8	M27x1.5	G3/4"	
30A(C)46X014N...-2	72.6	142.2	Ø55	Ø26	M8	M33x1.5	G1"	Ø55	Ø18	M8	M27x1.5	G3/4"	
30A(C)50X014N...-2	74.4	145.8	Ø55	Ø26	M8	M33x1.5	G1"	Ø55	Ø18	M8	M27x1.5	G3/4"	
30A(C)55X014N...-2	76.7	150.3	Ø55	Ø26	M8	M33x1.5	G1"	Ø55	Ø18	M8	M27x1.5	G3/4"	

30A(C)...X014N(V)-1/ 30A(C)...X014N(V)-2 - normal
 30A(C)...X014NM(V)-1/ 30A(C)...X068NM(V)-2 - metric thread "M"
 30A(C)...X014NT(V)-1/ 30A(C)...X068NT(V)-2 - GAS thread "G"

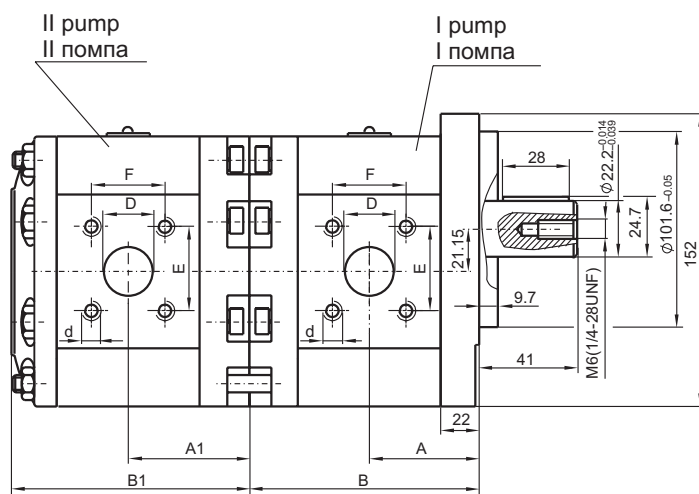
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30A(C)...X014N...V-1 / 33A(C)...X...N...V-2



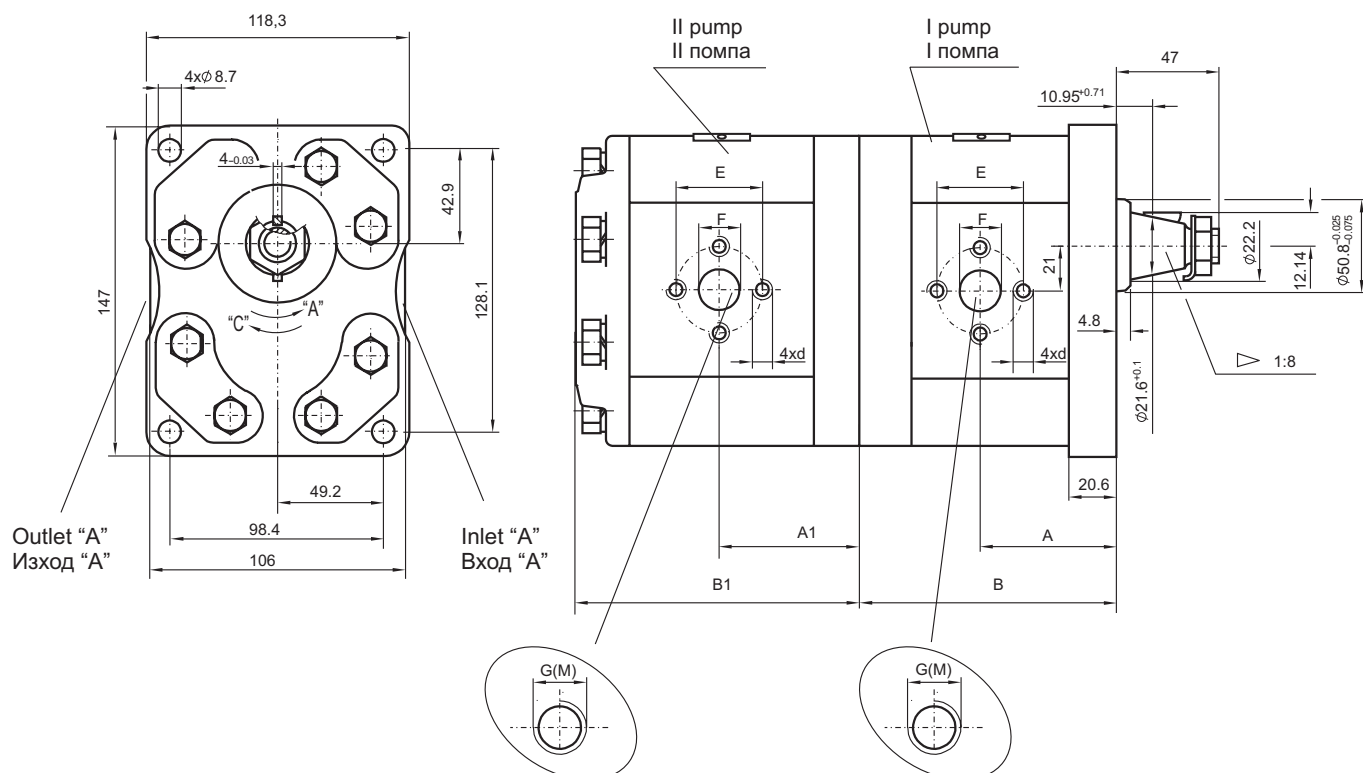
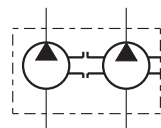
I pump I помпа												
Type Тип	Dimensions Размери mm											
	A	B	Inlet Вход					Outlet Изход				
			E	F	d	M	G	E	F	d	M	G
30A(C)20X014N...-1	53.5	110.1				M27x1.5	G3/4"				M27x1.5	G3/4"
30A(C)25X014N...-1	55.7	114.5				M27x1.5	G3/4"				M27x1.5	G3/4"
30A(C)28X014N...-1	57.6	118.1				M27x1.5	G3/4"				M27x1.5	G3/4"
30A(C)32X014N...-1	59.4	121.7				M33x1.5	G1"				M27x1.5	G3/4"
30A(C)36X014N...-1	61	124.8				M33x1.5	G1"				M27x1.5	G3/4"
30A(C)42X014N...-1	63.8	130.5				M33x1.5	G1"				M27x1.5	G3/4"
30A(C)46X014N...-1	65.6	134.2				M33x1.5	G1"				M27x1.5	G3/4"
30A(C)50X014N...-1	67.4	137.8				M33x1.5	G1"				M27x1.5	G3/4"
30A(C)55X014N...-1	69.7	141.3				M33x1.5	G1"				M27x1.5	G3/4"

II pump II помпа												
Type Тип	Dimensions Размери mm											
	A1	B1	Inlet Вход					Outlet Изход				
			E	F	d	M	G	E	F	d	M	G
33A(C)20X...N...-2	60.5	118.1				M27x1.5	G3/4"				M27x1.5	G3/4"
33A(C)25X...N...-2	62.7	122.5				M27x1.5	G3/4"				M27x1.5	G3/4"
33A(C)28X...N...-2	64.6	126.1				M27x1.5	G3/4"				M27x1.5	G3/4"
33A(C)32X...N...-2	66.4	129.7				M33x1.5	G1"				M27x1.5	G3/4"
33A(C)36X...N...-2	68	132.8				M33x1.5	G1"				M27x1.5	G3/4"
33A(C)42X...N...-2	70.8	138.5				M33x1.5	G1"				M27x1.5	G3/4"
33A(C)48X...N...-2	72.6	142.2				M33x1.5	G1"				M27x1.5	G3/4"
33A(C)50X...N...-2	74.4	145.8				M33x1.5	G1"				M27x1.5	G3/4"
33A(C)55X...N...-2	76.7	150.3				M33x1.5	G1"				M27x1.5	G3/4"

33A (C)...X014NM(V)-1 / 33A (C)...X068NM(V)-2 - metric thread
33A (C)...X014NT(V)-1/ 33A (C)...X068NT(V)-2 -GAS thread

[illegible]

A(C)43...94X...1 / A(C)43...94X...1



Type Тип	I pump I помпа											
	Dimensions Размери mm											
	A	B	Inlet Вход					Outlet Изход				
			E	F	d	M	G	E	F	d	M	G
A(C)43X...1	52	108.1	ϕ 39.7	ϕ 19	M8	M27x1.5	G3/4"	ϕ 39.7	ϕ 19	M8	M27x1.5	G3/4"
A(C)54X...1	52	108.1	ϕ 39.7	ϕ 19	M8	M27x1.5	G3/4"	ϕ 39.7	ϕ 19	M8	M27x1.5	G3/4"
A(C)72X...1	60	124.1	ϕ 50.8	ϕ 27	M10	M33x1.5	G1"	ϕ 39.7	ϕ 19	M8	M27x1.5	G3/4"
A(C)94X...1	60	124.1	ϕ 50.8	ϕ 27	M10	M33x1.5	G1"	ϕ 39.7	ϕ 19	M8	M27x1.5	G3/4"

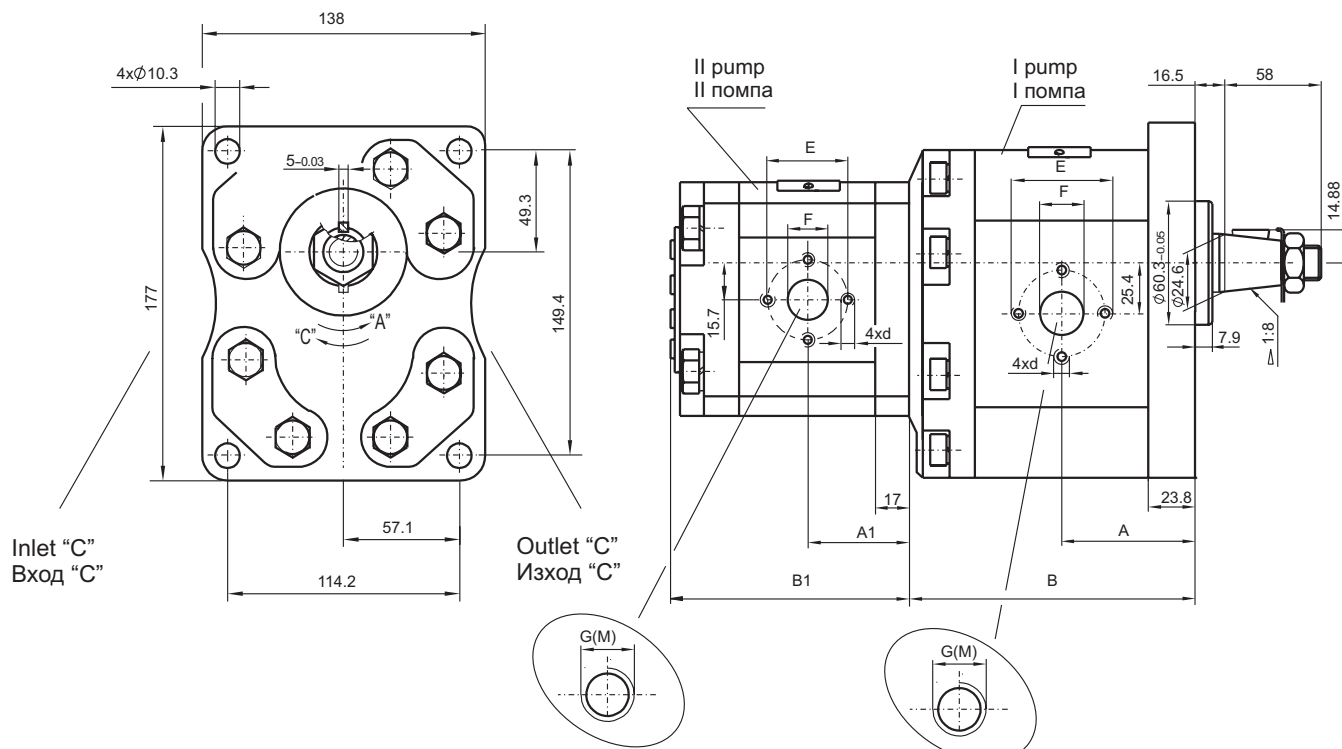
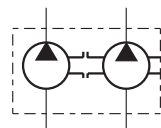
Type Тип	II pump II помпа											
	Dimensions Размери mm											
	A1	B1	Inlet Вход					Outlet Изход				
			E	F	d	M	G	E	F	d	M	G
A(C)43X...1	56.2	109.5	ϕ 39.7	ϕ 19	M8	M27x1.5	G3/4"	ϕ 39.7	ϕ 19	M8	M27x1.5	G3/4"
A(C)54X...1	56.2	109.5	ϕ 39.7	ϕ 19	M8	M27x1.5	G3/4"	ϕ 39.7	ϕ 19	M8	M27x1.5	G3/4"
A(C)72X...1	64.2	125.5	ϕ 50.8	ϕ 27	M10	M33x1.5	G1"	ϕ 39.7	ϕ 19	M8	M27x1.5	G3/4"
A(C)94X...1	64.2	125.5	ϕ 50.8	ϕ 27	M10	M33x1.5	G1"	ϕ 39.7	ϕ 19	M8	M27x1.5	G3/4"

A(C)43...94XA1/A(C)43...94XA1-normal

A(C)43...94XTM1/A(C)43...94XTM1-metric thread "M"

A(C)43...94XT1/A(C)43...94XT1-GAS thread "G"

A(C)95...165X...2 / A(C)4...26X13...8.1



I pump I помпа												
Type Тип	Dimensions Размери mm											
	A	B	Inlet Вход					Outlet Изход				
			E	F	d	M	G	E	F	d	M	G
A(C)95X2	66	141.3	φ50.8	φ27	M10	M33x1.5	G1"	φ50.8	φ27	M10	M33x1.5	G1"
A(C)120X2	66	141.3	φ50.8	φ27	M10	M33x1.5	G1"	φ50.8	φ27	M10	M33x1.5	G1"
A(C)140X2	72.3	153.8	φ61.9	φ33.5	M12	M42x1.5	G1 1/4"	φ50.8	φ27	M10	M33x1.5	G1"
A(C)165X2	72.3	153.8	φ61.9	φ33.5	M12	M42x1.5	G1 1/4"	φ50.8	φ27	M10	M33x1.5	G1"

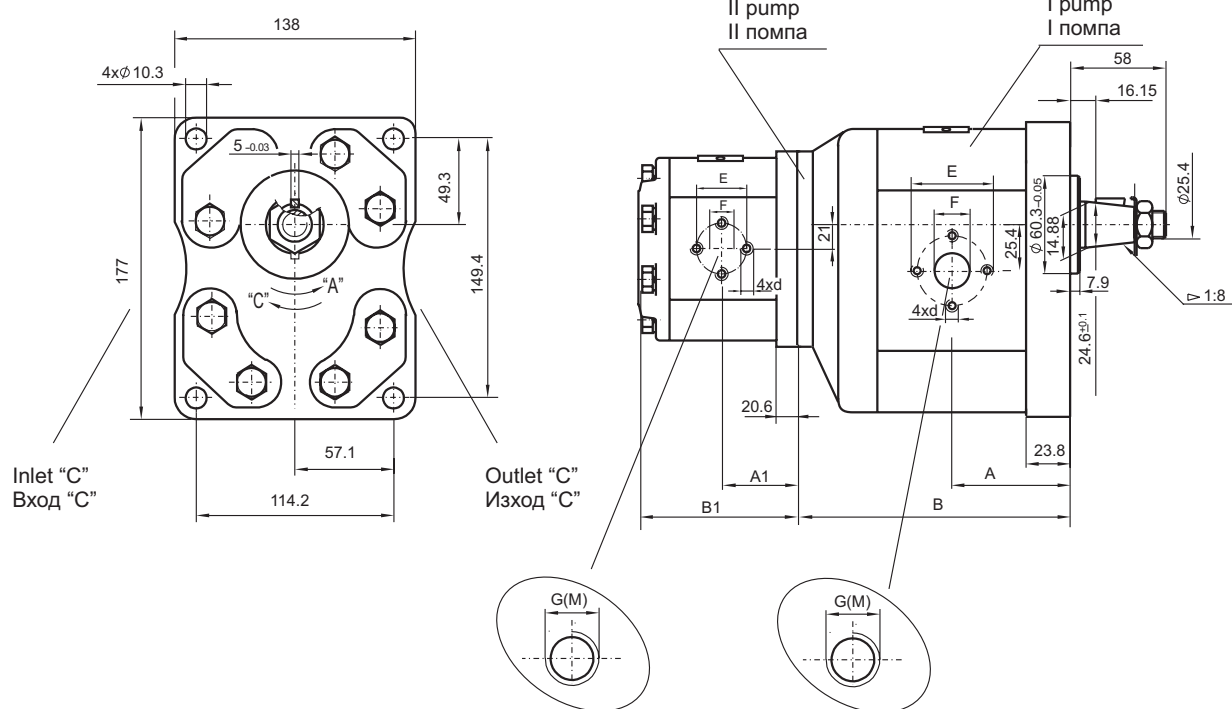
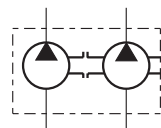
Type Тип	II pump II помпа												
	Dimensions Размери mm												
	A1	B1	Inlet Вход				Outlet Изход						
			E	F	d	M	G	E	F	d	M	G	
A(C)4X13A8.1	40.5	89	φ30.2	φ13.1	M6	M20x1.5	G1/2"	φ30.2	φ13.1	M6	M16x1.5	G1/2"	
A(C)5X13A8.1	41.3	90.5	φ30.2	φ13.1	M6	M20x1.5	G1/2"	φ30.2	φ13.1	M6	M16x1.5	G1/2"	
A(C)6X13A8.1	42	92	φ30.2	φ13.1	M6	M20x1.5	G1/2"	φ30.2	φ13.1	M6	M16x1.5	G1/2"	
A(C)9X13A8.1	44	96	φ30.2	φ13.1	M6	M20x1.5	G1/2"	φ30.2	φ13.1	M6	M16x1.5	G1/2"	
A(C)10X13A8.1	45	98	φ39.7	φ19	M8	M20x1.5	G3/4"	φ30.2	φ14.2	M6	M16x1.5	G1/2"	
A(C)11X13A8.1	46	100	φ39.7	φ19	M8	M20x1.5	G3/4"	φ30.2	φ14.2	M6	M16x1.5	G1/2"	
A(C)12X13A8.1	47	102	φ39.7	φ19	M8	M20x1.5	G3/4"	φ30.2	φ14.2	M6	M16x1.5	G1/2"	
A(C)14X13A8.1	49	106	φ39.7	φ19	M8	M20x1.5	G3/4"	φ30.2	φ14.2	M6	M16x1.5	G1/2"	
A(C)15X13A8.1	50	107.5	φ39.7	φ19	M8	M20x1.5	G3/4"	φ30.2	φ14.2	M6	M16x1.5	G1/2"	
A(C)16X13A8.1	50.5	109	φ39.7	φ19	M8	M20x1.5	G3/4"	φ30.2	φ14.2	M6	M16x1.5	G1/2"	
A(C)17X13A8.1	51	110	φ39.7	φ19	M8	M20x1.5	G3/4"	φ30.2	φ14.2	M6	M16x1.5	G1/2"	
A(C)19X13A8.1	53	114	φ39.7	φ19	M8	M20x1.5	G3/4"	φ30.2	φ14.2	M6	M16x1.5	G1/2"	
A(C)22X13A8.1	56	120	φ39.7	φ19	M8	M20x1.5	G3/4"	φ30.2	φ14.2	M6	M20x1.5	G1/2"	
A(C)25X13A8.1	58	123.5	φ39.7	φ19	M8	M20x1.5	G3/4"	φ30.2	φ14.2	M6	M20x1.5	G1/2"	
A(C)26X13A8.1	58.5	125	φ39.7	φ19	M8	M20x1.5	G3/4"	φ30.2	φ14.2	M6	M20x1.5	G1/2"	

A(C)95...165X2/A(C)4...26X13A8.1-normal

A(C)95...165XTM2/A(C)4...26X13M8.1-metric thread "M"

A(C)95...165XT2/A(C)4...26X13T8.1-GAS thread "G"

A(C)95...165X1 / A(C)43...94X1



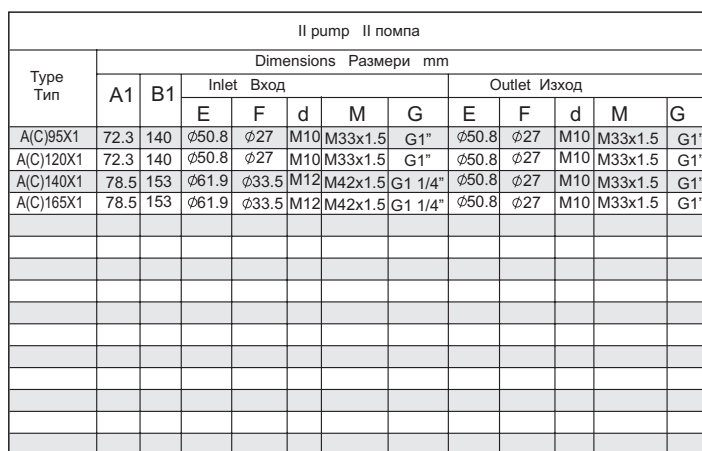
I pump I помпа												
Type Тип	Dimensions Размери mm											
	A	B	Inlet Вход					Outlet Изход				
			E	F	d	M	G	E	F	d	M	G
A(C)95X1	66	143.3	φ50.8	φ27	M10	M33x1.5	G1"	φ50.8	φ27	M10	M33x1.5	G1"
A(C)120X1	66	143.3	φ50.8	φ27	M10	M33x1.5	G1"	φ50.8	φ27	M10	M33x1.5	G1"
A(C)140X1	72.3	155.8	φ61.9	φ33.5	M12	M42x1.5	G1 1/4"	φ50.8	φ27	M10	M33x1.5	G1"
A(C)165X1	72.3	155.8	φ61.9	φ33.5	M12	M42x1.5	G1 1/4"	φ50.8	φ27	M10	M33x1.5	G1"

II pump II помпа												
Type Тип	Dimensions Размери mm											
	A1	B1	Inlet Вход					Outlet Изход				
			E	F	d	M	G	E	F	d	M	G
A(C)43X1	52	106	ø39.7	ø19	M8	M27x1.5	G3/4"	ø39.7	ø19	M8	M27x1.5	G3/4"
A(C)54X1	52	106	ø39.7	ø19	M8	M27x1.5	G3/4"	ø39.7	ø19	M8	M27x1.5	G3/4"
A(C)72X1	60	122	ø50.8	ø27	M10	M33x1.5	G1"	ø39.7	ø19	M8	M27x1.5	G3/4"
A(C)94X1	60	122	ø50.8	ø27	M10	M33x1.5	G1"	ø39.7	ø19	M8	M27x1.5	G3/4"
A(C)80X1	61.5	125	ø50.8	ø27	M10	M33x1.5	G1"	ø39.7	ø19	M8	M27x1.5	G3/4"

A(C)95...165X1/A(C)43...94X1-normal

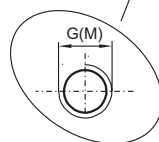
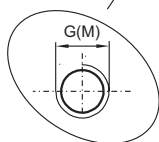
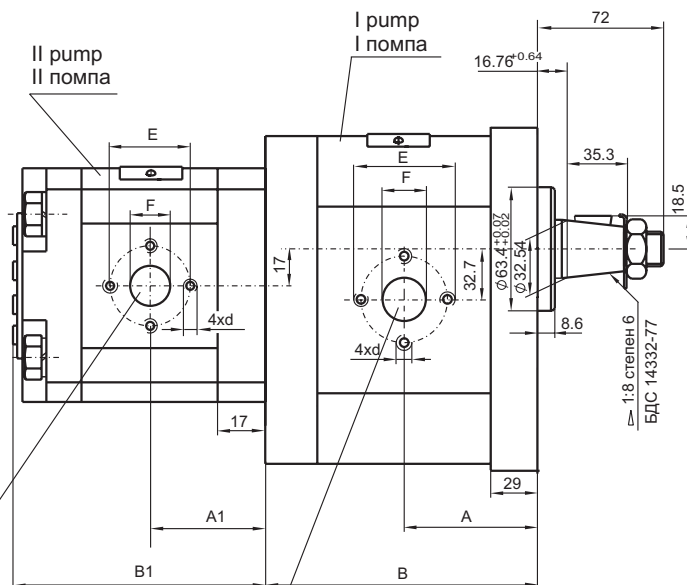
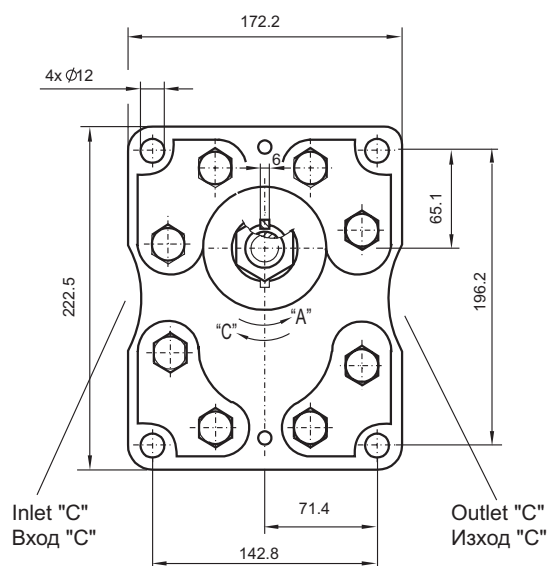
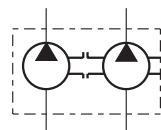
A(C)95...165XTM1/A(C)43...94XTM1-metric thread "M"

A(C)95...165XT1/A(C)43...94XT1-GAS thread "G"



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A(C)170...325X...2 / A(C)...X13...8.1



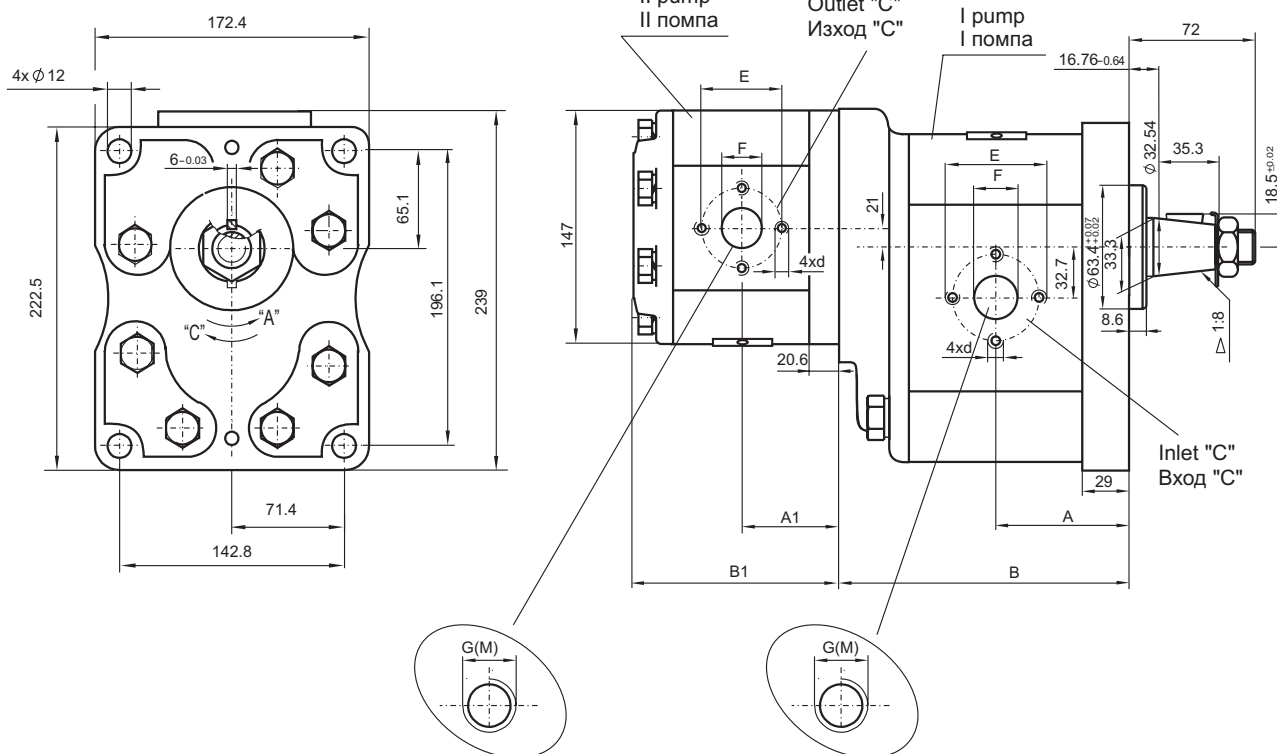
I pump I помпа												
Type Тип	Dimensions Размери mm											
	A	B	Inlet Вход				Outlet Изход					
			E	F	d	M	G	E	F	d	M	G
A(C)170X2	79.7	161.6	Ø72.5	Ø38	M12	M48x2	G1 1/2"	Ø61.9	Ø32	M12	M42x1.5	G1 1/4"
A(C)215X2	79.7	161.6	Ø72.5	Ø38	M12	M48x2	G1 1/2"	Ø61.9	Ø32	M12	M42x1.5	G1 1/4"
A(C)280X2	88.9	180	Ø72.5	Ø38	M12	M48x2	G1 1/2"	Ø61.9	Ø32	M12	M42x1.5	G1 1/4"
A(C)325X2	88.9	180	Ø72.5	Ø38	M12	M48x2	G1 1/2"	Ø61.9	Ø32	M12	M42x1.5	G1 1/4"

II pump II помпа												
Type Тип	Dimensions Размери mm											
	A1	B1	Inlet Вход				Outlet Изход					
			E	F	d	M	G	E	F	d	M	G
A(C)4X13A8.1	40.5	89	Ø30.2	Ø13.1	M6	M20x1.5	G1/2"	Ø30.2	Ø13.1	M6	M16x1.5	G1/2"
A(C)5X13A8.1	41.3	90.5	Ø30.2	Ø13.1	M6	M20x1.5	G1/2"	Ø30.2	Ø13.1	M6	M16x1.5	G1/2"
A(C)6X13A8.1	42	92	Ø30.2	Ø13.1	M6	M20x1.5	G1/2"	Ø30.2	Ø13.1	M6	M16x1.5	G1/2"
A(C)9X13A8.1	44	96	Ø30.2	Ø13.1	M6	M20x1.5	G1/2"	Ø30.2	Ø13.1	M6	M16x1.5	G1/2"
A(C)10X13A8.1	45	98	Ø39.7	Ø19	M8	M20x1.5	G3/4"	Ø30.2	Ø14.2	M6	M16x1.5	G1/2"
A(C)11X13A8.1	46	100	Ø39.7	Ø19	M8	M20x1.5	G3/4"	Ø30.2	Ø14.2	M6	M16x1.5	G1/2"
A(C)12X13A8.1	47	102	Ø39.7	Ø19	M8	M20x1.5	G3/4"	Ø30.2	Ø14.2	M6	M16x1.5	G1/2"
A(C)14X13A8.1	49	106	Ø39.7	Ø19	M8	M20x1.5	G3/4"	Ø30.2	Ø14.2	M6	M16x1.5	G1/2"
A(C)15X13A8.1	50	107.5	Ø39.7	Ø19	M8	M20x1.5	G3/4"	Ø30.2	Ø14.2	M6	M16x1.5	G1/2"
A(C)16X13A8.1	50.5	109	Ø39.7	Ø19	M8	M20x1.5	G3/4"	Ø30.2	Ø14.2	M6	M16x1.5	G1/2"
A(C)17X13A8.1	51	110	Ø39.7	Ø19	M8	M20x1.5	G3/4"	Ø30.2	Ø14.2	M6	M16x1.5	G1/2"
A(C)19X13A8.1	53	114	Ø39.7	Ø19	M8	M20x1.5	G3/4"	Ø30.2	Ø14.2	M6	M16x1.5	G1/2"
A(C)22X13A8.1	56	120	Ø39.7	Ø19	M8	M20x1.5	G3/4"	Ø30.2	Ø14.2	M6	M20x1.5	G1/2"
A(C)25X13A8.1	58	123.5	Ø39.7	Ø19	M8	M20x1.5	G3/4"	Ø30.2	Ø14.2	M6	M20x1.5	G1/2"
A(C)26X13A8.1	58.5	125	Ø39.7	Ø19	M8	M20x1.5	G3/4"	Ø30.2	Ø14.2	M6	M20x1.5	G1/2"

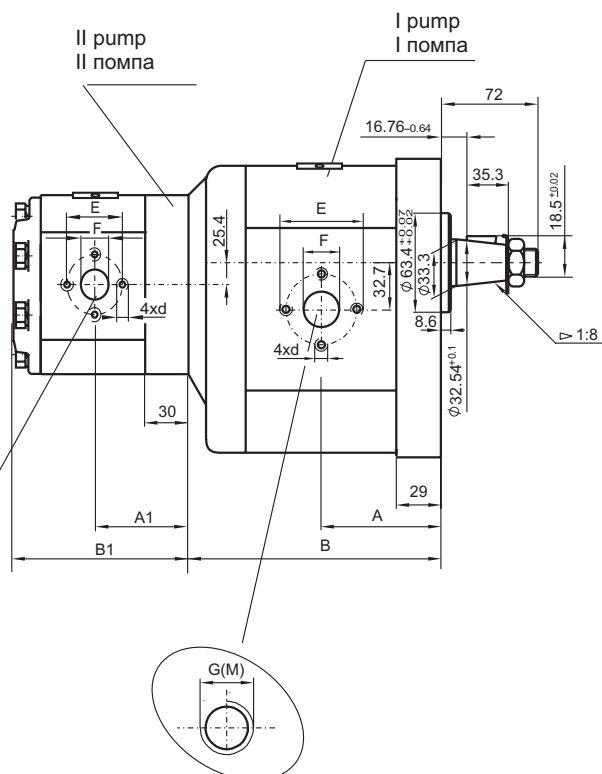
A(C)170...325X2/A(C)4...26X13A8.1-normal

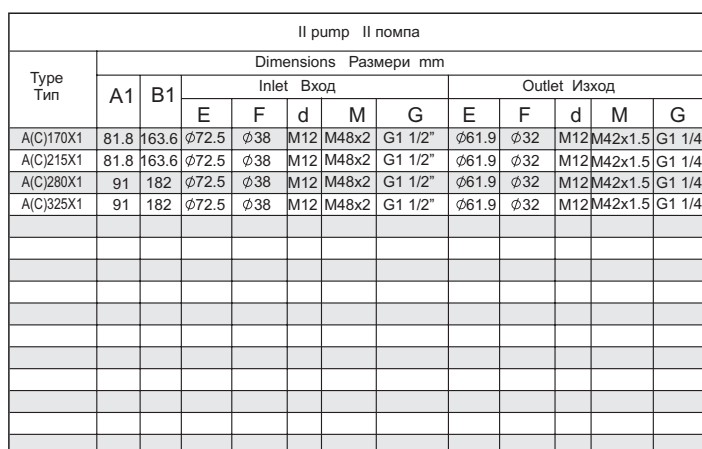
A(C)170...325XTM2/A(C)4...26X13M8.1-metric thread "M"

A(C)170...325XT2/A(C)4...26X13T8.1-GAS thread "G"

[illegible][illegible]

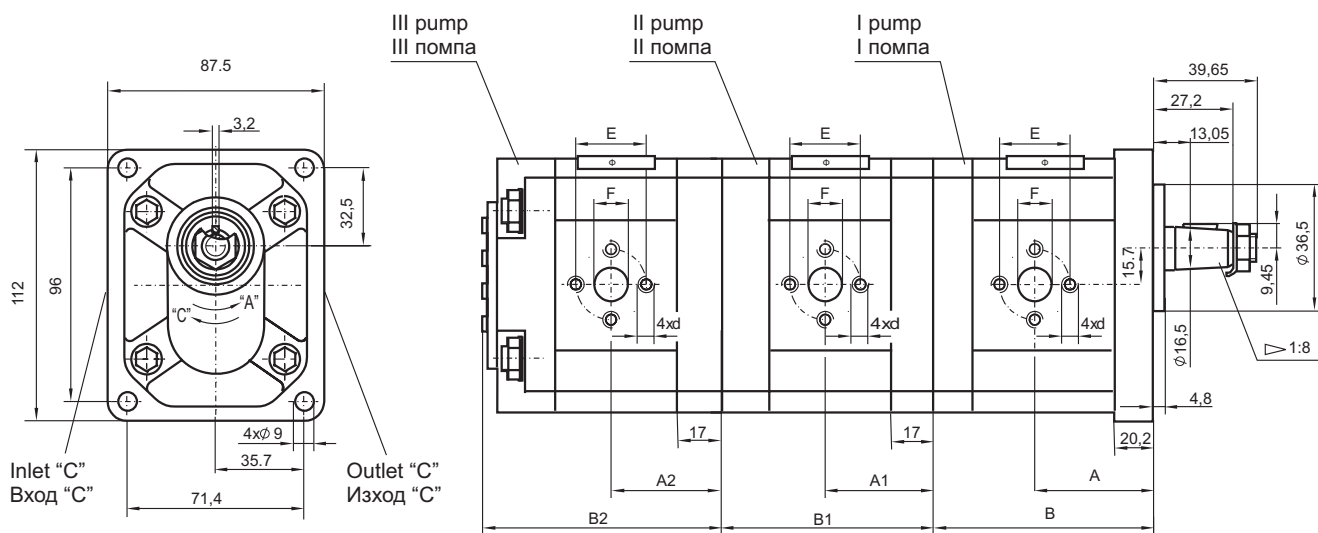
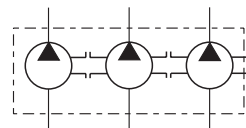
INDUSTRIALTECHNIC SC

[illegible]
INDUSTRIALTECHNIC SC



TRIPLE GROUP II+II+II / СТРОЕНИ ГРУПА II+II+II

A(C)...X2A1-1/A(C)...X13A8.1-1/A(C)...X13A8.1



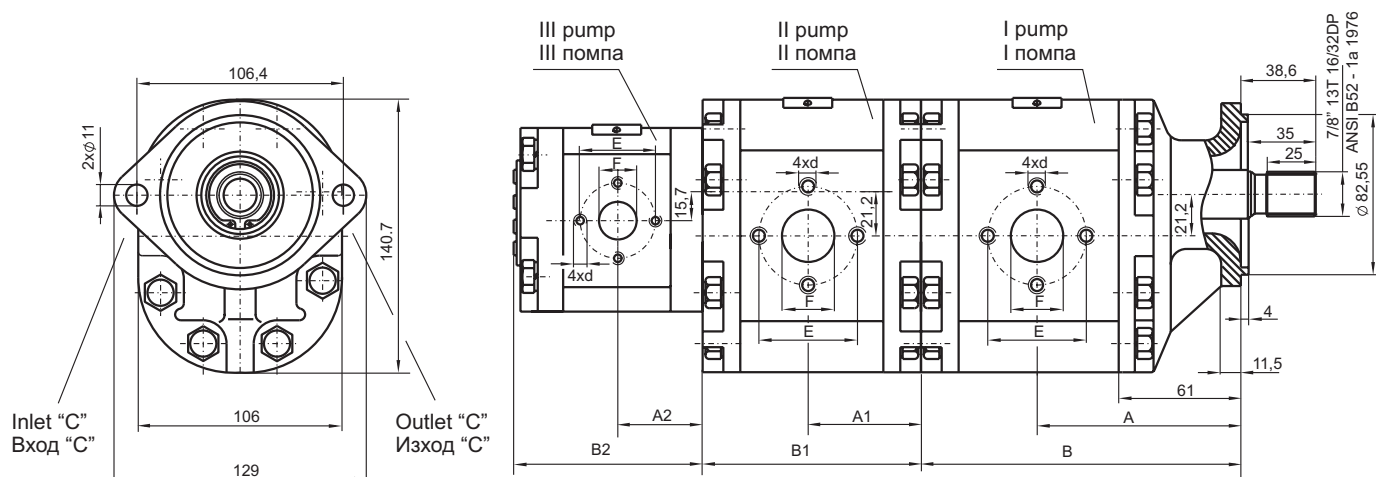
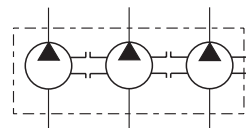
I pump I помпа												
Type Тип	Dimensions Размери mm											
	A	B	Inlet Вход					Outlet Изход				
			E	F	d	M	G	E	F	d	M	G
A(C)4X2A1-1	43.5	84.2	φ 30.2	φ13.1	M6			φ 30.2	φ13.1	M6		
A(C)5X2A1-1	44.5	85.7	φ 30.2	φ13.1	M6			φ 30.2	φ13.1	M6		
A(C)6X2A1-1	45.2	87.2	φ 30.2	φ13.1	M6			φ 30.2	φ13.1	M6		
A(C)9X2A1-1	47.2	91.2	φ 30.2	φ13.1	M6			φ 30.2	φ13.1	M6		
A(C)10X2A1-1	48.2	93.2	φ 39.7	φ19	M8			φ 30.2	φ14.2	M6		
A(C)11X2A1-1	49.2	95.2	φ 39.7	φ19	M8			φ 30.2	φ14.2	M6		
A(C)12X2A1-1	50.2	97.2	φ 39.7	φ19	M8			φ 30.2	φ14.2	M6		
A(C)14X2A1-1	52.2	101.2	φ 39.7	φ19	M8			φ 30.2	φ14.2	M6		
A(C)15X2A1-1	53	102.7	φ 39.7	φ19	M8			φ 30.2	φ14.2	M6		
A(C)16X2A1-1	53.7	104.2	φ 39.7	φ19	M8			φ 30.2	φ14.2	M6		
A(C)17X2A1-1	54.2	105.2	φ 39.7	φ19	M8			φ 30.2	φ14.2	M6		
A(C)19X2A1-1	56.2	109.2	φ 39.7	φ19	M8			φ 30.2	φ14.2	M6		
A(C)22X2A1-1	59.2	115.2	φ 39.7	φ19	M8			φ 30.2	φ14.2	M6		
A(C)25X2A1-1	61	118.7	φ 39.7	φ19	M8			φ 30.2	φ14.2	M6		
A(C)26X2A1-1	61.7	120.2	φ 39.7	φ19	M8			φ 30.2	φ14.2	M6		

II pump II помпа														
Type Тип	Dimensions Размери mm													
	A1	B1	Inlet Вход						Outlet Изход					
			E	F	d	M	G	E	F	d	M	G		
A(C)4X13A8.1-1	40.5	81	Ø 30.2	Ø13.1	M6			Ø30.2	Ø13.1	M6				
A(C)5X13A8.1-1	41.3	82.5	Ø 30.2	Ø13.1	M6			Ø30.2	Ø13.1	M6				
A(C)6X13A8.1-1	42	84	Ø 30.2	Ø13.1	M6			Ø30.2	Ø13.1	M6				
A(C)9X13A8.1-1	44	88	Ø 30.2	Ø13.1	M6			Ø30.2	Ø13.1	M6				
A(C)10X13A8.1-1	45	90	Ø 39.7	Ø19	M8			Ø30.2	Ø14.2	M6				
A(C)11X13A8.1-1	46	92	Ø 39.7	Ø19	M8			Ø30.2	Ø14.2	M6				
A(C)12X13A8.1-1	47	94	Ø 39.7	Ø19	M8			Ø30.2	Ø14.2	M6				
A(C)14X13A8.1-1	49	98	Ø 39.7	Ø19	M8			Ø30.2	Ø14.2	M6				
A(C)15X13A8.1-1	50	99.5	Ø 39.7	Ø19	M8			Ø30.2	Ø14.2	M6				
A(C)16X13A8.1-1	50.5	101	Ø 39.7	Ø19	M8			Ø30.2	Ø14.2	M6				
A(C)17X13A8.1-1	51	102	Ø 39.7	Ø19	M8			Ø30.2	Ø14.2	M6				
A(C)19X13A8.1-1	53	106	Ø 39.7	Ø19	M8			Ø30.2	Ø14.2	M6				
A(C)22X13A8.1-1	56	112	Ø 39.7	Ø19	M8			Ø30.2	Ø14.2	M6				
A(C)25X13A8.1-1	58	115.5	Ø 39.7	Ø19	M8			Ø30.2	Ø14.2	M6				
A(C)26X13A8.1-1	58.5	117	Ø 39.7	Ø19	M8			Ø30.2	Ø14.2	M6				

III pump III помпа														
Type Тип	Dimensions Размери mm													
	A2	B2	Inlet Вход						Outlet Изход					
			E	F	d	M	G	E	F	d	M	G		
A(C)4X13A8.1	40.5	89	Ø 30.2	Ø13.1	M6			Ø 30.2	Ø13.1	M6				
A(C)5X13A8.1	41.3	90.5	Ø 30.2	Ø13.1	M6			Ø 30.2	Ø13.1	M6				
A(C)6X13A8.1	42	92	Ø 30.2	Ø13.1	M6			Ø 30.2	Ø13.1	M6				
A(C)9X13A8.1	44	96	Ø 30.2	Ø13.1	M6			Ø 30.2	Ø13.1	M6				
A(C)10X13A8.1	45	98	Ø 39.7	Ø19	M8			Ø 30.2	Ø14.2	M6				
A(C)11X13A8.1	46	100	Ø 39.7	Ø19	M8			Ø 30.2	Ø14.2	M6				
A(C)12X13A8.1	47	102	Ø 39.7	Ø19	M8			Ø 30.2	Ø14.2	M6				
A(C)14X13A8.1	49	106	Ø 39.7	Ø19	M8			Ø 30.2	Ø14.2	M6				
A(C)15X13A8.1	50	107.5	Ø 39.7	Ø19	M8			Ø 30.2	Ø14.2	M6				
A(C)16X13A8.1	50.5	109	Ø 39.7	Ø19	M8			Ø 30.2	Ø14.2	M6				
A(C)17X13A8.1	51	110	Ø 39.7	Ø19	M8			Ø 30.2	Ø14.2	M6				
A(C)19X13A8.1	53	114	Ø 39.7	Ø19	M8			Ø 30.2	Ø14.2	M6				
A(C)22X13A8.1	56	120	Ø 39.7	Ø19	M8			Ø 30.2	Ø14.2	M6				
A(C)25X13A8.1	58	123.5	Ø 39.7	Ø19	M8			Ø 30.2	Ø14.2	M6				
A(C)26X13A8.1	58.5	125	Ø 39.7	Ø19	M8			Ø 30.2	Ø14.2	M6				



A(C)43...94X1-SAE/A(C)43...94X2/A(C)4...26X2



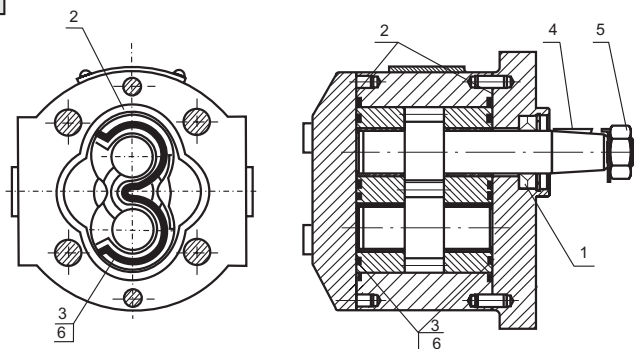
Type Тип	I pump I помпа											
	Dimensions Размери mm											
	A	B	Inlet Вход				Outlet Изход					
			E	F	d	M	G	E	F	d	M	G
A(C)43X1-SAE	92.4	148.5	φ39.7	φ19	M8			φ39.7	φ19	M8		
A(C)54X1-SAE	52	148.5	φ39.7	φ19	M8			φ39.7	φ19	M8		
A(C)72X1-SAE	100.4	164.5	φ50.8	φ27	M10			φ39.7	φ19	M8		
A(C)94X1-SAE	100.4	164.5	φ50.8	φ27	M10			φ39.7	φ19	M8		

Type Тип	II pump II помпа											
	Dimensions Размери mm											
	A1	B1	Inlet Вход				Outlet Изход					
			E	F	d	M	G	E	F	d	M	G
A(C)43X2	56.2	109.5	φ39.7	φ19	M8			φ39.7	φ19	M8		
A(C)54X2	56.2	109.5	φ39.7	φ19	M8			φ39.7	φ19	M8		
A(C)72X2	64.2	125.5	φ50.8	φ27	M10			φ39.7	φ19	M8		
A(C)94X2	64.2	125.5	φ50.8	φ27	M10			φ39.7	φ19	M8		

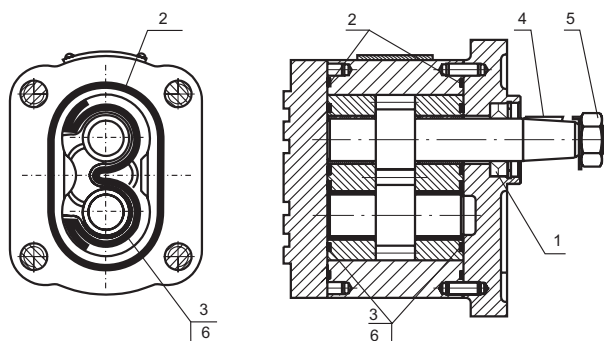
Type Тип	III pump III помпа											
	Dimensions Размери mm											
	A2	B2	Inlet Вход				Outlet Изход					
			E	F	d	M	G	E	F	d	M	G
A(C)4X2	43.8	92.3	φ30.2	φ13.1	M6			φ30.2	φ13.1	M6		
A(C)5X2	44.6	93.8	φ30.2	φ13.1	M6			φ30.2	φ13.1	M6		
A(C)6X2	45.3	95.3	φ30.2	φ13.1	M6			φ30.2	φ13.1	M6		
A(C)9X2	47.3	99.3	φ30.2	φ13.1	M6			φ30.2	φ13.1	M6		
A(C)10X2	48.3	101.3	φ39.7	φ19	M8			φ30.2	φ14.2	M6		
A(C)11X2	49.3	103.3	φ39.7	φ19	M8			φ30.2	φ14.2	M6		
A(C)12X2	50.3	105.3	φ39.7	φ19	M8			φ30.2	φ14.2	M6		
A(C)14X2	52.3	109.3	φ39.7	φ19	M8			φ30.2	φ14.2	M6		
A(C)15X2	53	110.8	φ39.7	φ19	M8			φ30.2	φ14.2	M6		
A(C)16X2	53.8	112.3	φ39.7	φ19	M8			φ30.2	φ14.2	M6		
A(C)17X2	54.3	113.3	φ39.7	φ19	M8			φ30.2	φ14.2	M6		
A(C)19X2	56.3	117.3	φ39.7	φ19	M8			φ30.2	φ14.2	M6		
A(C)22X2	59.3	123.3	φ39.7	φ19	M8			φ30.2	φ14.2	M6		
A(C)25X2	61	126.3	φ39.7	φ19	M8			φ30.2	φ14.2	M6		
A(C)26X2	61.8	128.3	φ39.7	φ19	M8			φ30.2	φ14.2	M6		

SPARE PARTS / РЕЗЕРВНИ ЧАСТИ

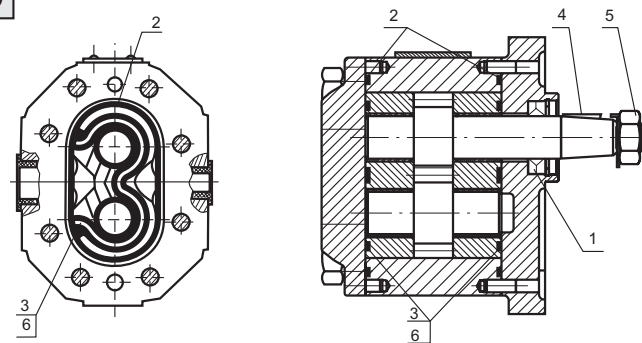
I



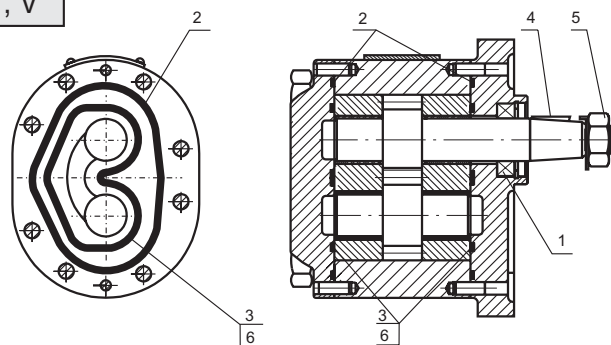
II



30



III; IV; V



GROUP ГРУПА	SET OF SEALS УПЛЪТНЕНИЯ (1;2;3;6)	KEY ШПОНКА bхh(bхhхL) (4)	NUT ГАЙКА (5)
I	SP1001	2.4x5	M7
II	SP2001 (IT) SP2002 (BG)	3.2x6.5 4x6.5 3x6.5 5x6.5 4x4x22 4x4x20	M 12x1.5
III (170 bar)	SP3001	4x7.5 6.35x6.35x28	M 14x1.5
30...NV 30...N (250 bar)	SP3001 SP3001B	4x7.5 6.35x6.35x28	M 14x1.5
IV	SP4001	5x10 8x7x40	M 16x1.5
V	SP5001	6x11 10x8x50	M 20x1.5

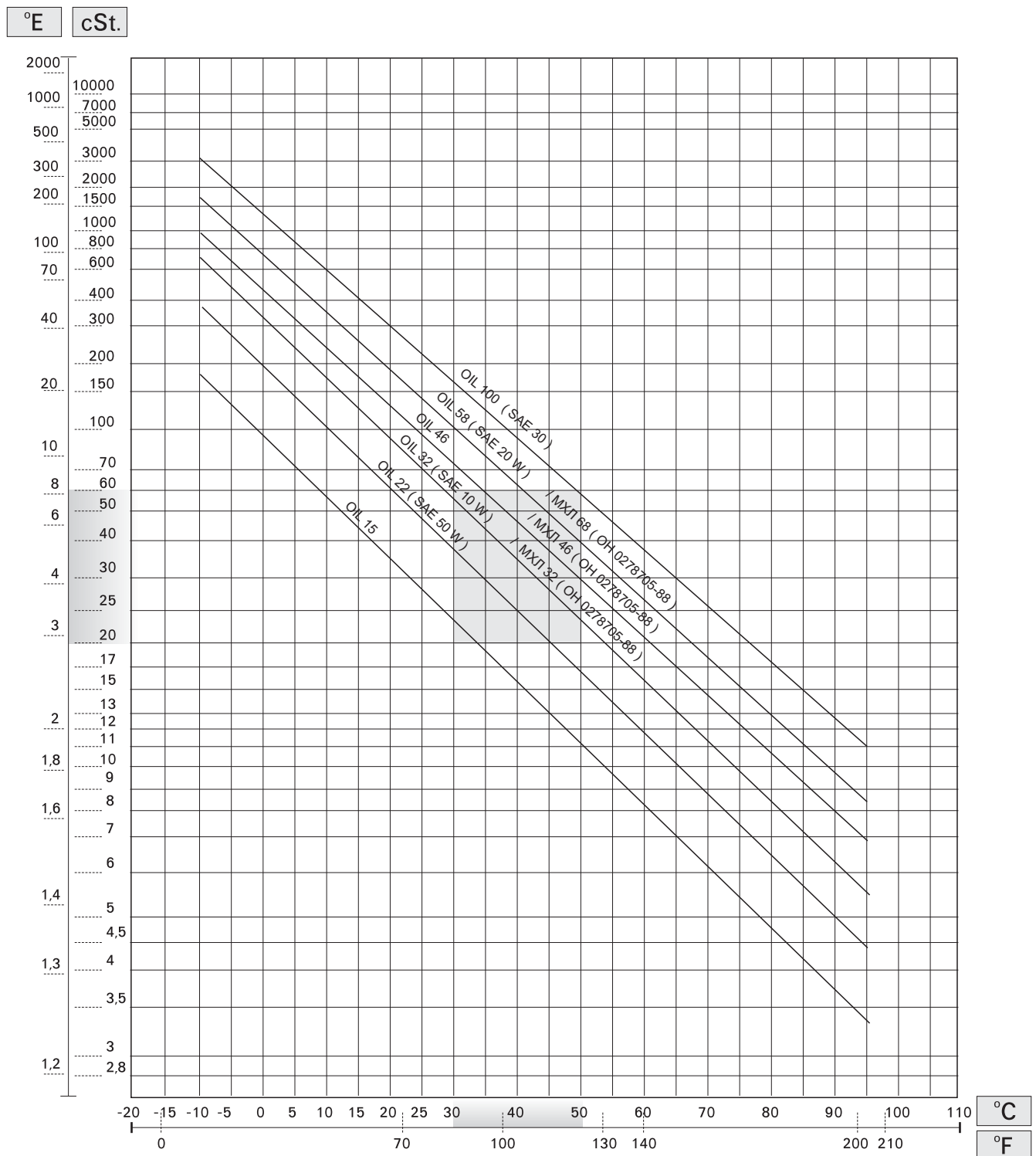
WHEN ORDERING SPARE PARTS, INDICATE THE DESIGNATION ACCORDING TO THE TABLE.
ПРИ ЗАЯВКА НА ЧАСТИ ДА СЕ ОКАЗВАТ ОБОЗНАЧЕНИЯТА ОТ ТАБЛИЦИТЕ

THE COMPANY OFFERS AS SPARE PARTS ALL TYPES OF MOUNTING
FLANGES AND BACK COVERS.

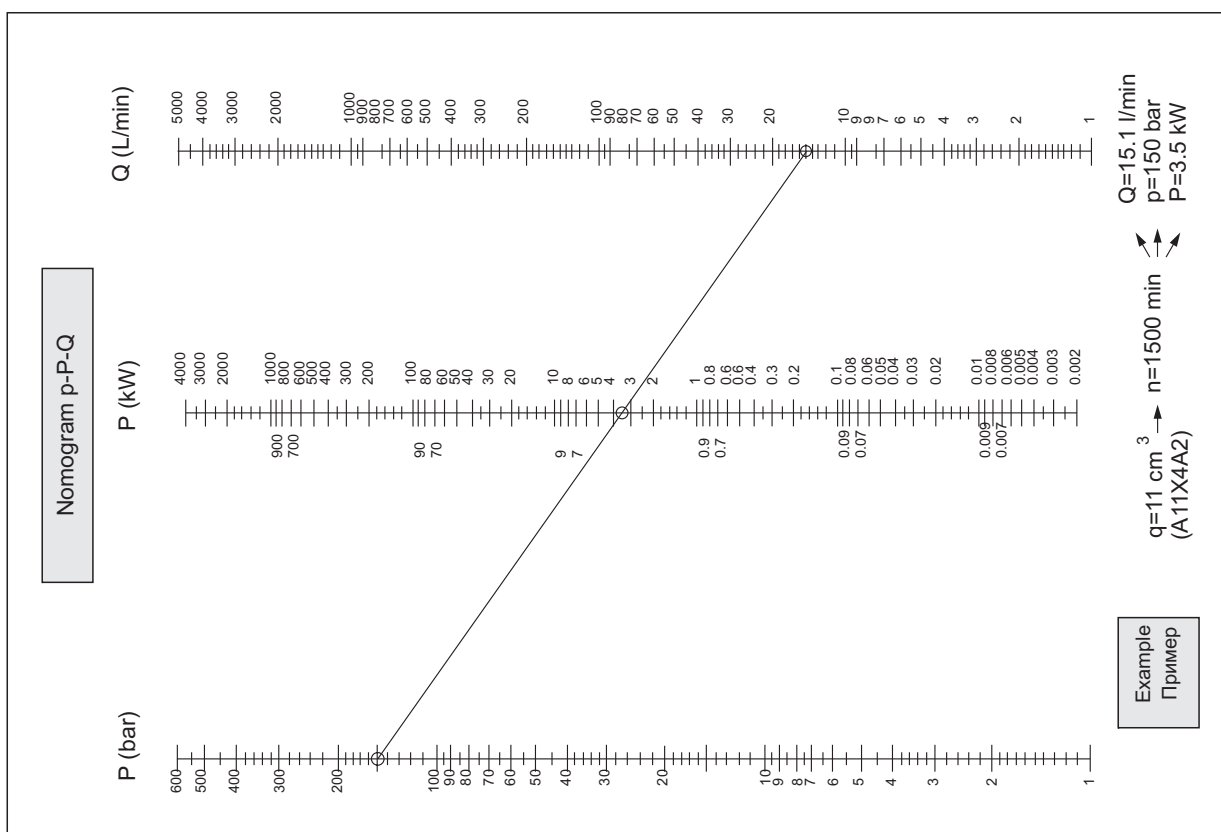
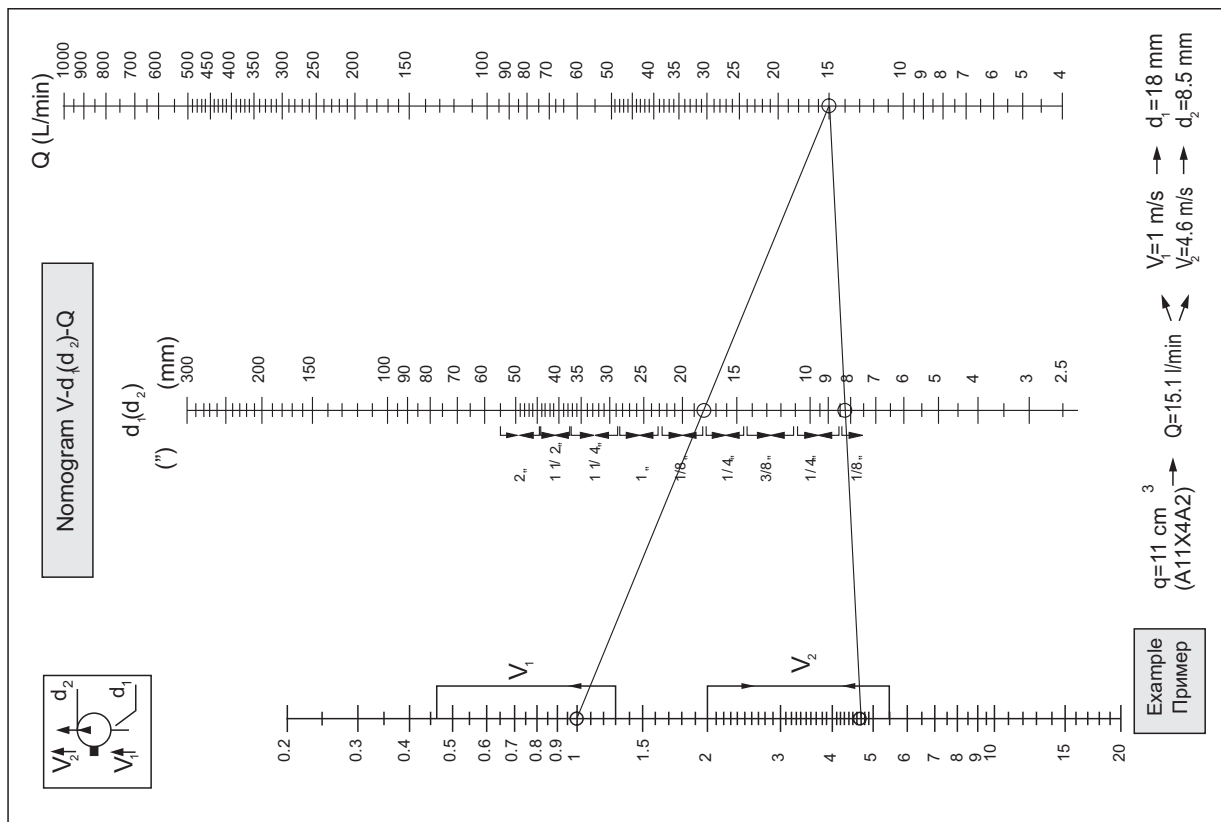
ФИРМАТА ПРЕДЛАГА КАТО РЕЗЕРВНИ ЧАСТИ КЪМ ПОМПИТЕ
ВСИЧКИ МОДИФИКАЦИИ "КАПАК ПРЕДЕН" И "КАПАК ЗАДЕН".

NOMOGRAM / НОМОГРАМА

TABLE OF OIL VISCOSITY ACCORDING TO TEMPERATURE
ДИАГРАМА : ВИСКОЗИТЕТ-ТЕМПЕРАТУРА



NOMOGRAM / НОМОГРАМА



ALL HYDRAULIC PRODUCTS ARE SUBJECT TO PRODUCTION TEST IN THE COMPANY AND THEIR GUARANTEE PERIOD IS 12 MONTHS FROM THE DATE OF PURCHASE

WHILE OPERATING WITH OUR PRODUCTS, THE FOLLOWING MUST BE OBSERVED:

-PROPER ASSEMBLY. THE TRANSFER OF THE POWER SUPPLY FROM THE MOTOR TO THE PUMP SHALL BE MADE WITHOUT ANY RADIAL OR AXIAL FORCES ON THE SHAFT OF THE PUMP

FAILURE TO FOLLOWING THESE RECOMMENDATIONS LEADS TO WORSE RELIABILITY OR SHORTENS PUMPS' LIFE

-OPTIMUM PERFORMANCE MODE. TO ENSURE BETTER MAINTENANCE OF THE PUMPS , THE COMPANY OFFERS, AT CUSTOMER REQUEST THE FOLLOWING ACCESSORIES: ELBOWS, COUPLINGS, SEALS, ETC.

ВСИЧКИ ХИДРАВЛИЧНИ ИЗДЕЛИЯ ПРЕМИНАВАТ ПРОИЗВОДСТВЕНИ ИЗПИТАНИЯ ВЪВ ФИРМАТА И ИМАТ ГАРАНЦИОНЕН ПЕРИОД 12 МЕСЕЦА ОТ ДЕНЯ НА ПРОДАЖБАТА

ПРИ ИЗПОЛЗВАНЕ НА НАШИТЕ ИЗДЕЛИЯ Е НЕОБХОДИМО ДА СЕ СПАЗВА СЛЕДНОТО:

-ПРАВИЛЕН МОНТАЖ. ПРЕДАВКАТА НА МОЩНОСТ ОТ ДВИГАТЕЛЯ КЪМ ПОМПАТА ДА СЕ ОСЪЩЕСТВЯВА БЕЗ АКСИАЛНИ ИЛИ РАДИАЛНИ УСИЛИЯ

-ОПТИМАЛЕН РЕЖИМ НА ЕКСПЛОАТАЦИЯ. ЗА ПРАВИЛНО ОБСЛУЖВАНЕ НА ПОМПАТА, ФИРМАТА ДОСТАВЯ ПО ЗАЯВКА И ПРИНАДЛЕЖНОСТИ: КОЛЕНА, УПЛЪТНЕНИЯ И ДР.

Company shall not be held liable for pumps made by another company and represented as production of INDUSTRIALTECHNIC SC.

Фирмата не отговаря за помпи, произведени от други фирми и представени като производство на "Индустриалтехник".

We reserve ourselves the right to change the technical specification of our products without prior communication.

Запазваме си правото на промени в техническите характеристики на изделията ни без предварително оповестяване.