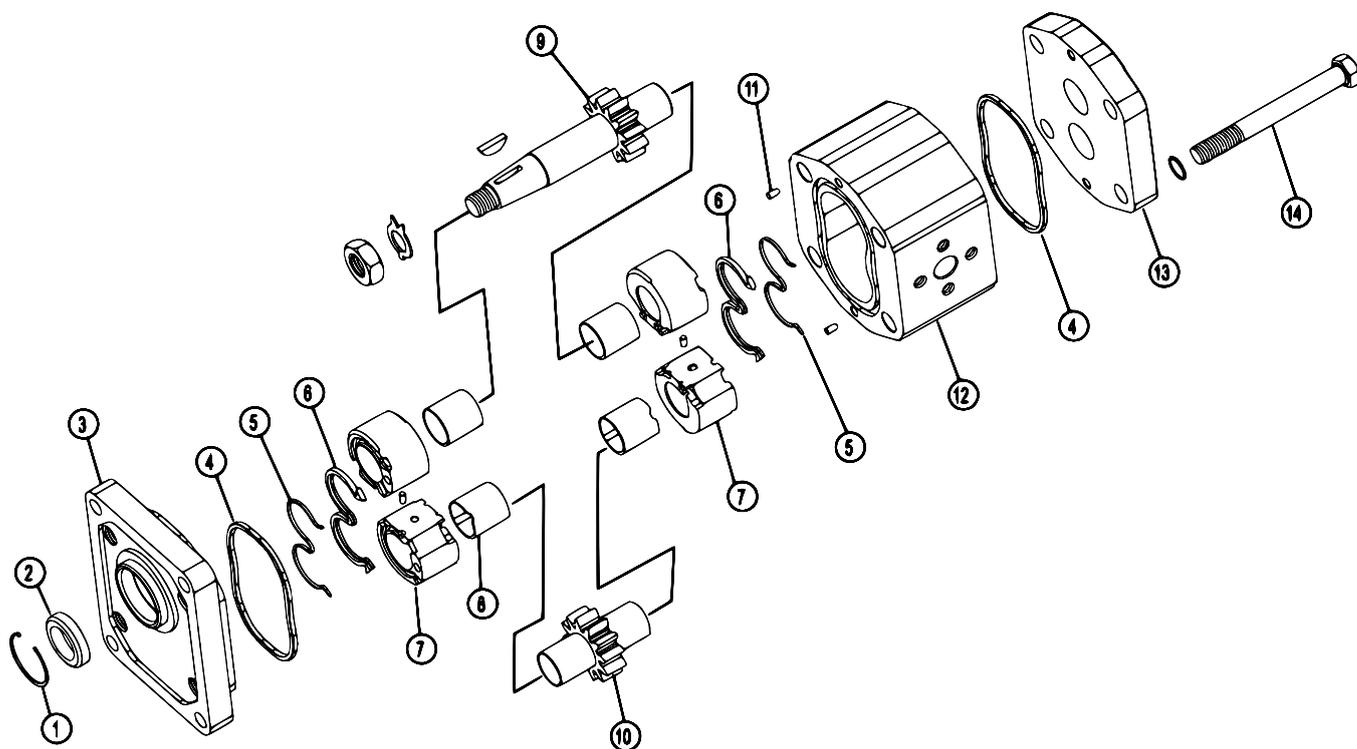


I AmberLine O W Hydraulics

GEAR PUMPS AND MOTORS

Зъбни помпи и мотори





Stop Ring	1	Зегерка
Shaft Seal	2	Семеринг на вала
Front cover	3	Преден капак
Housing Seal	4	Уплътнение на корпуса
Anti-extrusion Seal	5	Антиекструзионно уплътнение
Compensation Seal	6	Уплътнение за високо налягане
Bushing	7	Втулка
Du Bearing	8	Плъзгащ лагер
Drive Gear	9	Задвижващ вал
Driven Gear	10	Задвижван вал
Centring Pin	11	Фиксиращ щифт
Body	12	Корпус
End cover	13	Заден капак
Fastenings Screws	14	Болт

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<i>Type / Тип</i>	<i>Displacement / Работен обем</i>	<i>Max. pressure / Максимално налягане</i>
	cm ³ /rev	bar
ALKP1	0,8 - 8	160 - 230
ALHP2	3 - 30	160 - 270
ALHP2.5	10 - 45	190 - 250
ALHP2.6	6 - 44	170 - 250
ALHP3	20 - 71	180 - 250

IOW Bulgaria has in its range selected hydraulic pumps and motors.

ЙОВ България има в продуктовата си гама подбрани хидравлични помпи и мотори.

Please strictly follow assembly and use indications given in this catalogue for top performance and longer life of AmberLine pump.

Моля спазвайте стриктно указанията за монтаж и употреба, посочение в този каталог, за безавариинна работа и максимално дълъг живот на помпите и хидромотори Amberline.

Installation notes / Инструкции за инсталация

Before starting the system on a continuous basis, we suggest to adopt as follows simple precautions.

Check for the direction of rotation of the pump to be consistent with the drive shaft one, be sure no reversion revolved.

Check for the proper alignment of pump shaft and motor shaft, it is necessary that the connection does not induce axial or radial loads.

Check if contact area between seal ring and shaft is clean, remove all dirt, chips and all foreign bodies from flanges connecting inlet and delivery ports, dust could provoke quicker wear and leakage.

Ensure that intake and return pipes ends are always below fluid level and as far from each other as possible.

Fill the pump with fluid and turn it by hand.

Disconnect pump drain during startup to bleed air off the circuit.

Always avoid or limit load starting for pump longer life.

Преди да стартираме системата, препоръчваме да се спазват следните предпазни мерки. Проверете дали посоката на въртене на задвижващия вал съответства с посоката на въртене на помпата. Проверете дали в областта между семеринга и задвижващият вал е чиста, отстранете и почистете добре тази област от прах и чужди тела. Също така проверете дали са почистени добре входа и изхода на помпата. Уверете се, че крайщата на смукателната и връщащата тръба са под нивото на маслото в резервоара и са разположени на максимално разстояние една от друга. Преди пускане напълнете помпата с масло и я завъртете на ръка. След първоначално пускане, уверете се че системата е обезвъздушена.

Hydraulic fluids / Хидравлични течности

Use specific mineral oil based hydraulics fluids having good antioxidant, anti-foaming (rapid de-aeration), anti-wear, anti-corrosion and lubricating properties. Fluids should also comply with DIN 51525 and VDMA 24317 standards and get through 11h stage of FZG test.

For the standard models, the temperature of the fluid should range between -10°C and $+80^{\circ}\text{C}$.

Fluid kinematic viscosity ranges are the following:

Използвайте хидравлични течности, които имат добри смазочни качества. Също така трябва да са устойчиви на разпенване, имат анти-корозионни качества. Течностите трябва да са подбрани по стандарт DIN 51525 и VDMA 24317 и да са минали през 11 часов FZG тест. За стандартните помпи температурата на работната течност трябва да е в диапазон от -10°C до $+80^{\circ}\text{C}$. Диапазоните на кинематичния вискозитет са следните:

allowed range	Допустими стойности	6...500 cSt
recommended range	Препоръчителни стойности	10...1000 cSt
value allowed at startup	Стойности разрешени при пускане на помпата	...2000 cSt

Inlet pressure / Налягане на входа на помпата

Under standard working conditions, intake pipe pressure is lower than atmospheric pressure. The operating inlet pressure should range between 0.7 and 3 bars (absolute).

При нормални условия, налягането в смукателния тръбопровод е по-ниско от атмосферното налягане. Работното налягане на входа е в диапазон между 0.7 и 3 bar (абсолютно налягане).

Filter recommendation / Препоръки за филтрация

It is widely known that most pumps early failures are due to contaminated fluids. As a warranty cannot be issued for dirt related wear, we recommend a filter to be used, which can reduce the degree of contamination of dirt particles.

The filtering system shall always ensure contamination levels not exceeding the values indicated below:

Хидравличните елементи не са устойчиви на замърсени течности. При пускане на нова помпа със замърсена течност, помпите и елементите няма да работят дълго време, и гаранцията няма да покрие подмяната или ремонта на хидравличния елемент. Препоръчваме използването на филтър, който намалява степента на замърсяване на работната течност. Филтрирането на системата осигурява нивата на замърсяване в системата да не надвишава стойностите показани в таблицата по-долу:

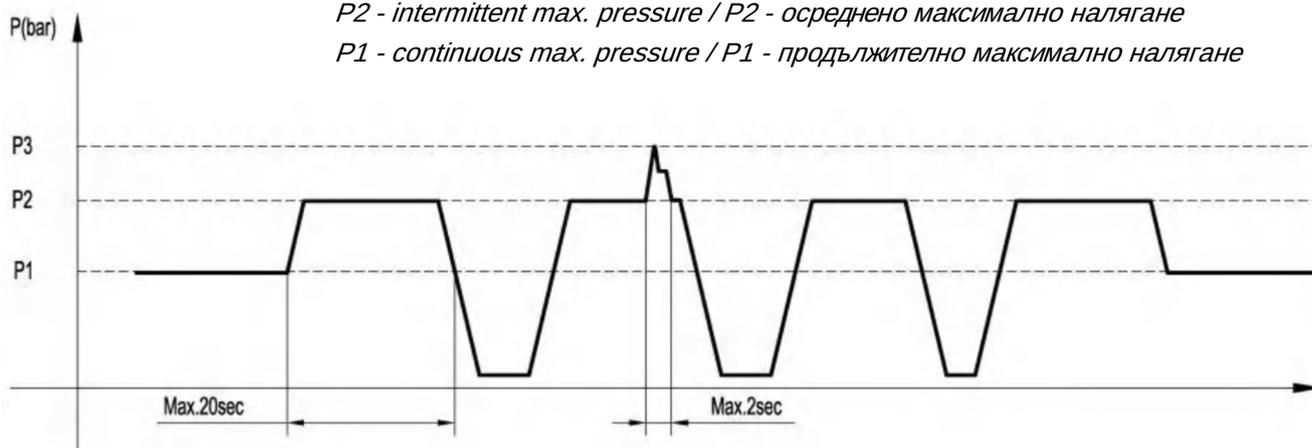
Pressure	Налягане	<140 bar	140...210 bar	>210 bar
NAS 1638 Class	Klasa NAS 1638	10	9	8
ISO 4406 Class	Klasa ISO 4406	19/16	18/15	17/14
Ratio $\beta_x=75$	$\beta_x=75$	25-40 μm	12-15 μm	6-12 μm

Pressure definition / Определение за налягане

P3 - peak max. pressure / P3 - пиково максимално налягане

P2 - intermittent max. pressure / P2 - осреднено максимално налягане

P1 - continuous max. pressure / P1 - продължително максимално налягане



Inlet and delivery lines / Смукателен и нагнетателен тръбопровод

Hydraulic system pipes should show no sudden changes of direction, sharp bends and sudden differences in cross-section. They should not be too long or out of proportion. Pipe cross-section should be sized so that fluid velocity does not exceed recommended values. It is advisable to carefully consider the possible diameter reduction of the inlet or outlet pipes fitted on flange fittings.

Препоръчваме тръбопроводите в хидравличната система да имат възможно най-малко сгъвки, разлики в напречните сечения и колкото е възможно да са по-къси. Напречното сечение трябва да бъде оразмерено, *rowiny ny wyc dopasowane*, а скорост *przepływajacego* надвишава препоръчителните стойности. Препоръчваме внимателно да се подберат тръбопроводите на входа и на изхода на помпите, особено когато се монтират на фланци и на фитинги.

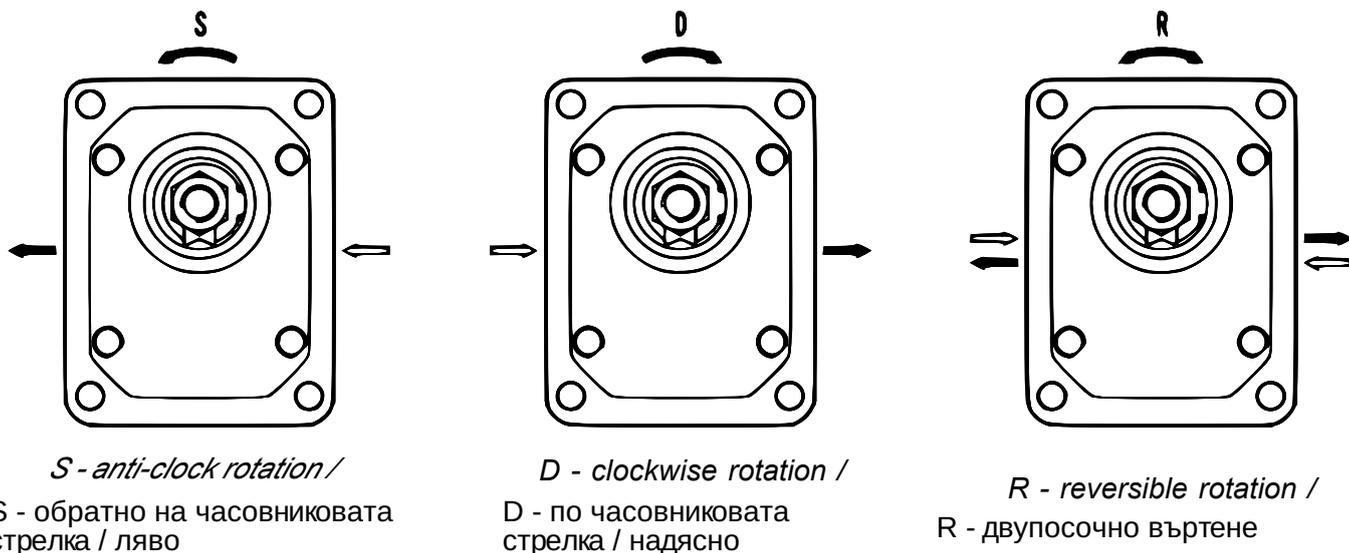
References values are the following:

Intake line	Смукателен тръбопровод	0.5...1.6 m/s
Delivery line	Нагнетателен тръбопровод	2...6 m/s
Return line	Връщач тръбопровод (С/МВ)	1.6...3 m/s

Rotation direction / Посока на въртене

Definition of rotation direction: when standing before the pump with driving shaft up with its projecting end towards the observer, the pump is rotating clockwise in case of right-hand rotation "D". The contrary will happen with left-hand pumps "S", keeping the same point of view.

Определяне посоката на въртене: Гледа се помпата към задвижващия вал, и посоката на въртене е по посока на часовниковата стрелка, това е помпа с дясно въртене -, "D". При въртене на задвижващия вал обратно на часовниковата стрелка, това е помпа с ляво въртене -, "S".



Design calculation / Wzory

Flow	Дебит	Q	L/min
Torque	Въртящ момент	M	Nm
Power	Мощност	P	kW
Speed	Ъглова скорост	n	obr/min
Pressure	Налягане	ΔP	bar
Displacement	Работен обем	V	cm ³ /rev

Volumetric efficiency	Обемно кпд	$\eta_v = \eta_v(V, \Delta P, n)$	0.93
Mechanical efficiency	Механично кпд	$\eta_{hm} = \eta_{hm}(V, \Delta P, n)$	0.85
Total efficiency	Общо кпд	$\eta_t = \eta_v * \eta_{hm}$	0.80

$Q = V * n * \eta_v 3 [1^1]$	[L * min]
$M = (\Delta P * V) / (62.83 * \eta_{hm} V)$	[Nm]
$P = (\Delta P * Q) / (612 * \eta_t V)$	[kW]

CODES FOR PUMPS AND MOTORS / Означения за помпи и мотори

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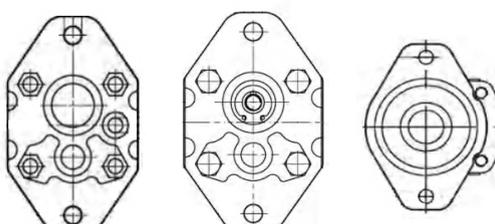
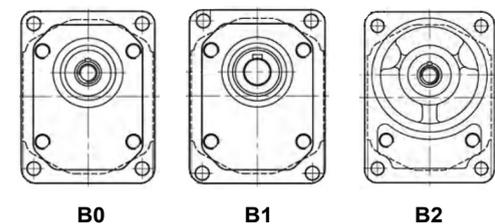
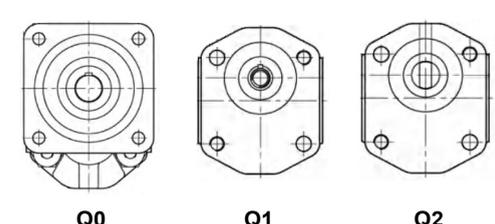
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ALHP2 - B0 - X - 12 - T0 - RL0 - - -

1	SERIES / СЕРИЯ
	ALHP1 (PUMP GROUP 1 / ПОМПА ГРУПА 1)
	ALHP2 (PUMP GROUP 2 / ПОМПА ГРУПА 2)
	ALHP2.5 (PUMP GROUP 2.5 / ПОМПА ГРУПА 2.5)
	ALHP2.6 (PUMP GROUP 2.6 / ПОМПА ГРУПА 2.6)
	ALHP3 (PUMP GROUP 3 / ПОМПА ГРУПА 3)
	ALHM1 (MOTOR GROUP 1 / МОТОР ГРУПА 1)
	ALHM2 (MOTOR GROUP 2 / МОТОР ГРУПА 2)
	ALHM3 (MOTOR GROUP 3 / МОТОР ГРУПА 3)

AVAILABLE / достъпно	●
UNAVAILABLE / недостъпно	-

2	FRONT COVER / ПРЕДЕН КАПАК	CODE
 <p>A0 (EXAMPLE / ПРИМЕР)</p> <p>A1 (EXAMPLE / ПРИМЕР)</p> <p>A2 (EXAMPLE / ПРИМЕР)</p>	A0 / A1 / A2	
 <p>B0 (EXAMPLE / ПРИМЕР)</p> <p>B1 (EXAMPLE / ПРИМЕР)</p> <p>B2 (EXAMPLE / ПРИМЕР)</p>	B0 / B1 / B2	
 <p>Q0 (EXAMPLE / ПРИМЕР)</p> <p>Q1 (EXAMPLE / ПРИМЕР)</p> <p>Q2 (EXAMPLE / ПРИМЕР)</p>	Q0 / Q1 / Q2	

3	ROTATION / ПОСОКА НА ВЪРТЕНЕ	CODE
	RIGHT / НАДЯСНО	X
	LEFT / НА ЛЯВО	Y
	TWO-WAY / ДВУСТРАННО	Z

4	SIZE / Обем					CODE
ALHP 1	ALHP 2 [ALHM 2]	ALHP 2.5	ALHP 2.6	ALHP 3 [ALHM 3]	MULTIPLE PUMPS	Работен обем
●	-	-	-	-	-	0,8
●	-	-	-	-	-	1,1
●	-	-	-	-	-	1,3
●	-	-	-	-	-	1,8
●	-	-	-	-	-	1,8
●	-	-	-	-	-	2,1
●	-	-	-	-	-	2,7
-	●	-	-	-	●	3
●	-	-	-	-	-	3,2
●	-	-	-	-	-	3,7
-	●	-	-	-	●	4
●	-	-	-	-	-	4,2
●	-	-	-	-	-	4,8
-	●	-	-	-	-	5,8
●	-	-	●	-	●	6
●	-	-	-	-	-	7
●	-	-	-	-	-	8
-	●	-	-	-	-	9
-	●	-	-	-	-	10
-	●	-	-	-	-	11
-	●	-	-	-	-	12
-	-	●	-	-	-	12,5
-	●	●	-	-	●	14
-	●	●	●	-	●	16
-	●	●	-	-	●	18
-	-	●	-	-	-	19
-	●	●	-	●	●	20
-	●	-	●	-	●	22
-	-	●	-	-	-	23
-	●	●	●	-	●	25
-	-	●	-	●	-	26
-	-	●	-	-	-	26,5
-	●	●	●	-	●	28
-	●	●	●	-	●	30
-	-	●	●	-	-	32
-	-	-	-	●	-	33
-	-	●	●	-	-	36
-	-	-	●	-	-	38
-	-	-	-	●	-	39
-	-	●	●	-	-	40
-	-	-	●	-	-	44
-	-	●	-	-	-	45
-	-	-	-	●	-	46
-	-	-	-	●	-	60
-	-	-	-	●	-	82
-	-	-	-	●	-	85
-	-	-	-	●	-	88
-	-	-	-	●	-	71

5	SHAFTS / ВАЛ	CODE
	CYLINDRICAL / ЦИЛИНДРИЧНИ	C0/C1/C2/C3/C4/C6
	SPLINED SHAFT / ШЛИЦОВИ	S0/S1/S2/S3/S8
	TAPERED SHAFT / КОНУСНИ	T0/T1
	TANG / ФИН	G0/G1
	SPLINED WITH 4 THEETS / ШЛИЦОВИ С 4 ЗЪБА	H0/H1/H2

CODES FOR PUMPS AND MOTORS / ОЗНАЧЕНИЯ ЗА ПОМПИ И МОТОРИ

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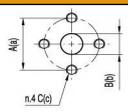
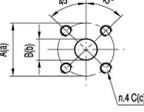
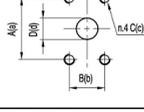
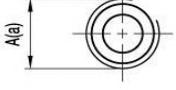
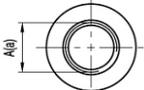
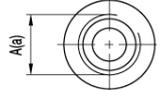
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ALHP2 - B0 - X - 12 - T0 - RL0 - - -

6	PORT POSITION / ПОЗИЦИЯ НА ПОРТОВЕ	CODE
	Side inlet and side outlet / Страничен входящ и изходящ	-
	Back inlet and front outlet / Заден входящ и преден изходящ	B
	Back inlet and side outlet / Заден входящ и страничен изходящ	C
	Back inlet and back outlet / Заден входящ и изходящ	R

7	PORTS / ПОРТОВЕ	CODE
	E0 / E1 / E2 / E3 / E4 European ports (diamond) / Европейски портове (каре)	
	F0 / F1 / F2 / F3 / F4 / F5 / F6 / F7 German ports (square) / Немски портове (квадрат)	
	M2 / M3 / M4 SAE ports / SAE портове	
	L0 / L1 / L2 / L3 / L4 Threads inch BSPP / BSPP портове	
	U0 / U1 / U2 / U3 Threads UNF / UNF портове	
	Z0 / Z1 / Z2 Threads metric / Портове с милиметрова реза	

8	SEALS / Уплътнения	CODE
	Range between -10°C and +80°C, inlet pressure up to max. 3 bar absolute / -10°C до +80°C, макс. наляг. на входа 3 бара	-
	Version suitable for fluid at hi-temperature, range between -10°C and +120°C / от -10°C до +120°C, високотемпературни	V
	Version suitable for fluid at low-temperature, range between -40°C and +80°C / от -40°C до +80°C, нискотемпературни	H
	Inlet pressure up to max. 10 bar absolute / за входно налягане от 3 бар до 10 бар	N

9	OPTIONS / ОПЦИИ	CODE
	Without options / Без опции	-
	Aluminum front and rear cover / Алюминиев преден и заден капак	EL
	Pressure relief valve. Discharged return to suction. x = 3...250 bar. / Предпазно-преливен клапан с оттечка към смукателя (от 3 до 250 bar)	Yx
	Pressure relief valve. Discharged return to externally. x = 5...250 bar. / Предпазно-преливен клапан с външна оттечка (от 3 до 250 bar)	Px
	3-way flow control valve with pressure relief valve. x = 100...180 bar, x = 2...30L/min. / Трипътен регулатор на дебит с предпазно-преливен клапан x1 = 100...180 bar, x2 = 2...30L/min. /	F _{x1} x ₂
	3-way flow control valve, x = 2...30L/min. / 3 пътен регулатор на дебит X2 = 2...30L/min	Qx
ONLY APPLIES TO MOTORS: / ВАЖИ САМО ЗА МОТОРИ:		
	Internal drain / Вътрешна оттечка	Q0
	External drain G3/8 / Външна оттечка G1/8	Q1
	External drain G1/4 / Външна оттечка G1/4	Q3

1 2 3 4 5 6/7 8

ALKP1 - Q0 - X - 0,8 - G0 - F0 - без

1	2	3	4	5	6	7	8	
Series / Серия	Front cover / Фланец	Rotation / Посока на въртене	Size / Обем	Shafts / Вал	Port position / Поз. на портове	Ports / Портове	Seals / Уплътнения	
ALKP1	Q0	X	0,8	G0	без	Side inlet and side outlet / Страничен входящ и изходящ	E0	без
			1,1					
			1,3					
			1,6					
			1,8					
			2,1					
	Q1	Y	2,7	G1	B	Back inlet and front outlet / Заден входящ и изходящ	F0	
			3,2					
			3,7					
			4,2					
			4,8					
			5,8					
Q2	Z	Two-way / Двустранно	T0	B	Back inlet and front outlet / Заден входящ и изходящ	L1/L2/L3		
		7						
		8						
		7						
		8						
		B0						

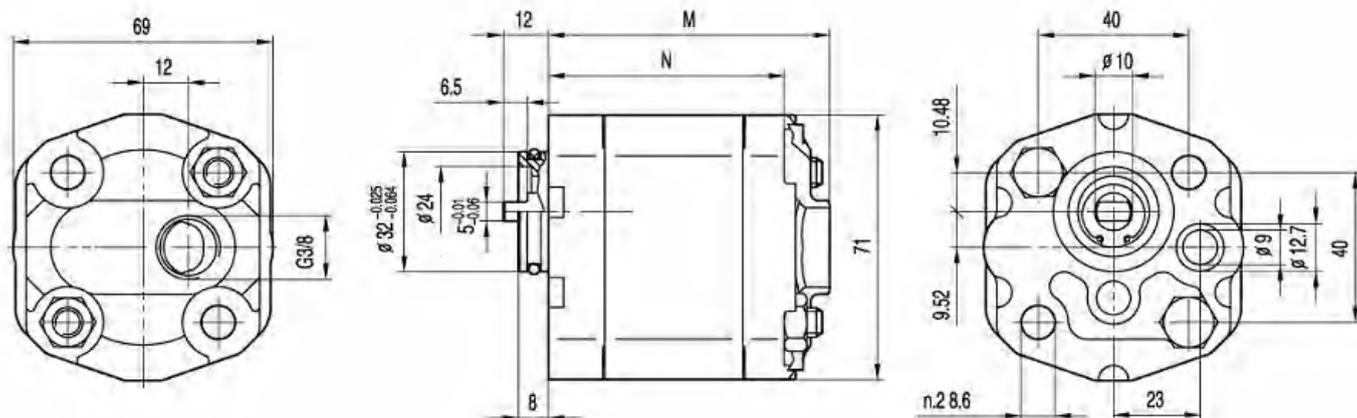


End cover: G3/4 thread depth 12. To mount the pump, n.2 M8 screws, with a torque wrench setting fixed at 27±3 Nm.

Заден капак: G3/4 резба с дълбочина 12 мм. За монтаж - 2 болта М8, затегнати на 27±3 Nm.

INLET

OUTLET



Technical information / Техническа информация

Type / Тип	Displacement / Работен обем (cm ³ /rev)	Max Pressure / Макс. налягане			Max. Speed / Макс. скорост (r/min)	Min. Speed / Мин. скорост (r/min)	Dimensions / Размери	
		P1	P2	P3			M	N
		bar	bar	bar			mm	mm
ALKP1-Q0-X-0,8-G0-L1	0,8	230	250	270	6000	1000	73.5	61.5
ALKP1-Q0-X-1,1-G0-L1	1,1	230	250	270	6000	1000	74	62
ALKP1-Q0-X-1,3-G0-L1	1,3	230	250	270	6000	1000	75	63
ALKP1-Q0-X-1,6-G0-L1	1,6	230	250	270	6000	1000	76	64
ALKP1-Q0-X-1,8-G0-L1	1,8	230	250	270	6000	1000	77	65
ALKP1-Q0-X-2,1-G0-L1	2,1	230	250	270	6000	1000	78	66
ALKP1-Q0-X-2,7-G0-L1	2,7	230	250	270	6000	1000	80	68
ALKP1-Q0-X-3,2-G0-L1	3,2	210	230	250	5000	800	82	70
ALKP1-Q0-X-3,7-G0-L1	3,7	210	230	250	4500	800	84	72
ALKP1-Q0-X-4,2-G0-L1	4,2	210	230	250	4000	800	86	74
ALKP1-Q0-X-4,8-G0-L1	4,8	190	210	230	3500	600	88	76
ALKP1-Q0-X-5,8-G0-L1	5,8	190	210	230	3000	600	92	80
ALKP1-Q0-X-7-G0-L1	7	160	180	200	2500	600	96	84
ALKP1-Q0-X-8-G0-L1	8	160	180	200	2100	600	100	88

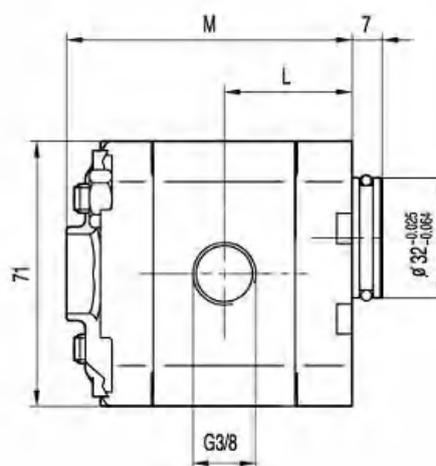
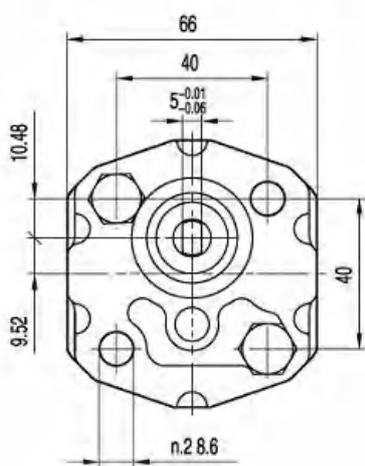
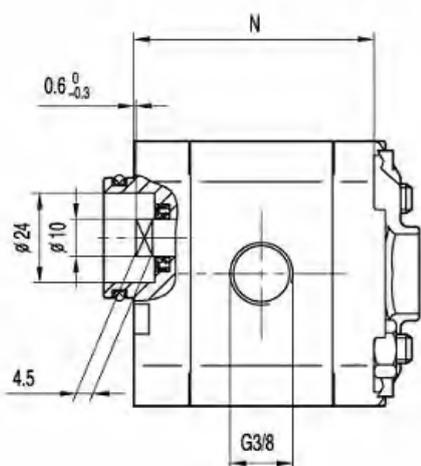


G3/8 thread depth 12. To mount the pump, n.2 M8 screws, with a torque wrench setting fixed at 27±3 Nm.

Резба G3/8 с дълбочина 12 мм. За монтаж - 2 бр. болта М8, затегнати на 27±3 Nm.

OUTLET

INLET

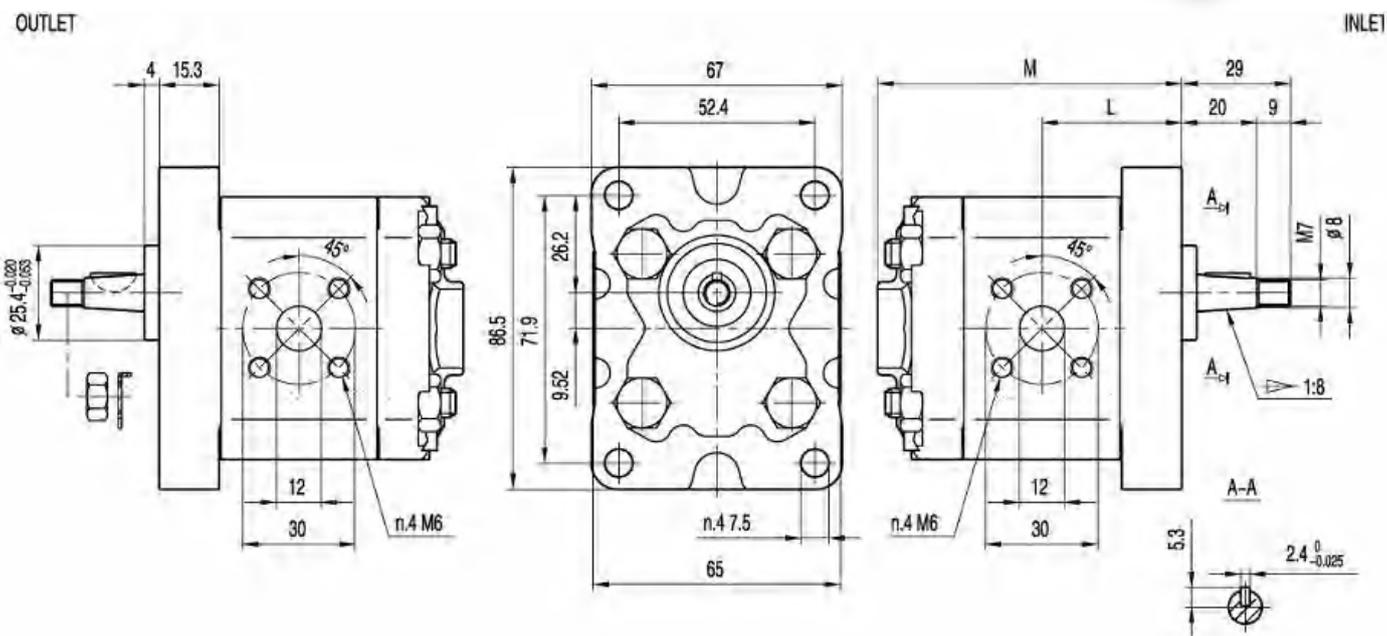


Technical information / Техническа информация

Type / Тип	Displacement / Работен обем (cm ³ /rev)	Max Pressure / Макс. налягане			Max. Speed / Макс. скорост (r/min)	Min. Speed / Мин. скорост (r/min)	Dimensions / Размери		
		P1	P2	P3			M	N	L
		bar	bar	bar			mm	mm	mm
ALKP1-Q2-X-0,8-G1-L3	0,8	230	250	270	6000	1000	73.5	61.5	32.8
ALKP1-Q2-X-1,1-G1-L3	1,1	230	250	270	6000	1000	74	62	33
ALKP1-Q2-X-1,3-G1-L3	1,3	230	250	270	6000	1000	75	63	33.5
ALKP1-Q2-X-1,6-G1-L3	1,6	230	250	270	6000	1000	76	64	34
ALKP1-Q2-X-1,8-G1-L3	1,8	230	250	270	6000	1000	77	65	34.5
ALKP1-Q2-X-2,1-G1-L3	2,1	230	250	270	6000	1000	78	66	35
ALKP1-Q2-X-2,7-G1-L3	2,7	230	250	270	6000	1000	80	68	36
ALKP1-Q2-X-3,2-G1-L3	3,2	210	230	250	5000	800	82	70	37
ALKP1-Q2-X-3,7-G1-L3	3,7	210	230	250	4500	800	84	72	38
ALKP1-Q2-X-4,2-G1-L3	4,2	210	230	250	4000	800	86	74	39
ALKP1-Q2-X-4,8-G1-L3	4,8	190	210	230	3500	600	88	76	40
ALKP1-Q2-X-5,8-G1-L3	5,8	190	210	230	3000	600	92	80	42
ALKP1-Q2-X-7,0-G1-L3	7	160	180	200	2500	600	96	84	44
ALKP1-Q2-X-8,0-G1-L3	8	160	180	200	2100	600	100	88	46

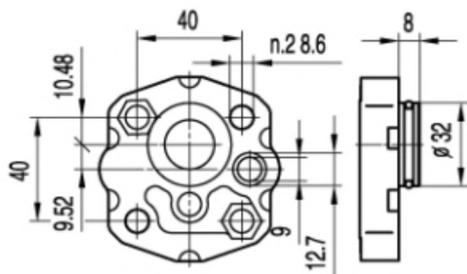
M6 thread depth 12. To mount the pump, n.4 M8 screws, with a torque wrench setting fixed at 27 ± 3 Nm. Shaft M7 nut, with torque wrench setting fixed at 8 Nm.

Резба М6 с дълбочина 12 мм. За монтаж - 4 бр. болта М8, затегнати на 27 ± 3 Nm. Гайката на вала - М7, затегната на 8 Nm.



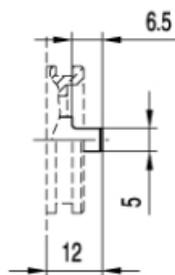
Technical information / Техническа информация

Type / Тип	Displacement / Работен обем (cm ³ /rev)	Max Pressure / Макс. налягане			Max. Speed / Макс. скорост (r/min)	Min. Speed / Мин. скорост (r/min)	Dimensions / Размери	
		P1	P2	P3			M	L
		bar	bar	bar			mm	mm
ALKP1-B0-X-0,8-T0-F0	0,8	230	250	270	6000	1000	73.5	32.8
ALKP1-B0-X-1,1-T0-F0	1,1	230	250	270	6000	1000	74	33
ALKP1-B0-X-1,3-T0-F0	1,3	230	250	270	6000	1000	75	33.5
ALKP1-B0-X-1,6-T0-F0	1,6	230	250	270	6000	1000	76	34
ALKP1-B0-X-1,8-T0-F0	1,8	230	250	270	6000	1000	77	34.5
ALKP1-B0-X-2,1-T0-F0	2,1	230	250	270	6000	1000	78	35
ALKP1-B0-X-2,7-T0-F0	2,7	230	250	270	6000	1000	80	36
ALKP1-B0-X-3,2-T0-F0	3,2	210	230	250	5000	800	82	37
ALKP1-B0-X-3,7-T0-F0	3,7	210	230	250	4500	800	84	38
ALKP1-B0-X-4,2-T0-F0	4,2	210	230	250	4000	800	86	39
ALKP1-B0-X-4,8-T0-F0	4,8	190	210	230	3500	600	88	40
ALKP1-B0-X-5,8-T0-F0	5,8	190	210	230	3000	600	92	42
ALKP1-B0-X-7,0-T0-F0	7	160	180	200	2500	600	96	44
ALKP1-B0-X-8,0-T0-F0	8	160	180	200	2100	600	100	46



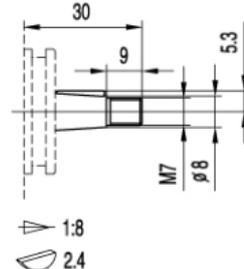
Q0

german with 2 screws / Немски с 2 болта



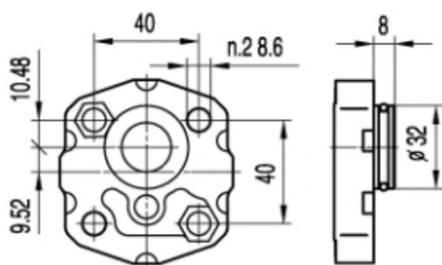
G0

Max. torque / Maks. moment 20 Nm



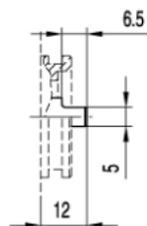
T0

Max. torque / Maks. moment 25 Nm



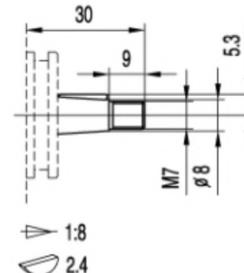
Q1

german with 2 screws / Немски с 2 болта



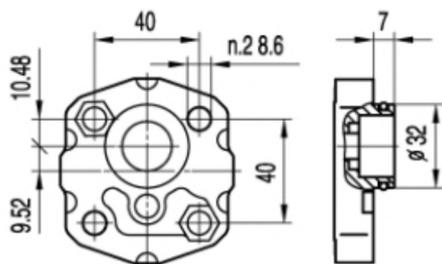
G0

Max. torque / Maks. moment 20 Nm



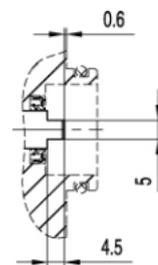
T0

Max. torque / Maks. moment 25 Nm



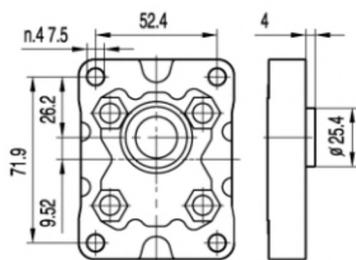
Q2

german with 2 screws / Немски с 2 болта



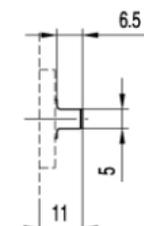
G1

Max. torque / Maks. moment 20 Nm



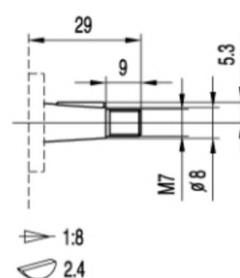
B0

euroreal / Европейски фланец



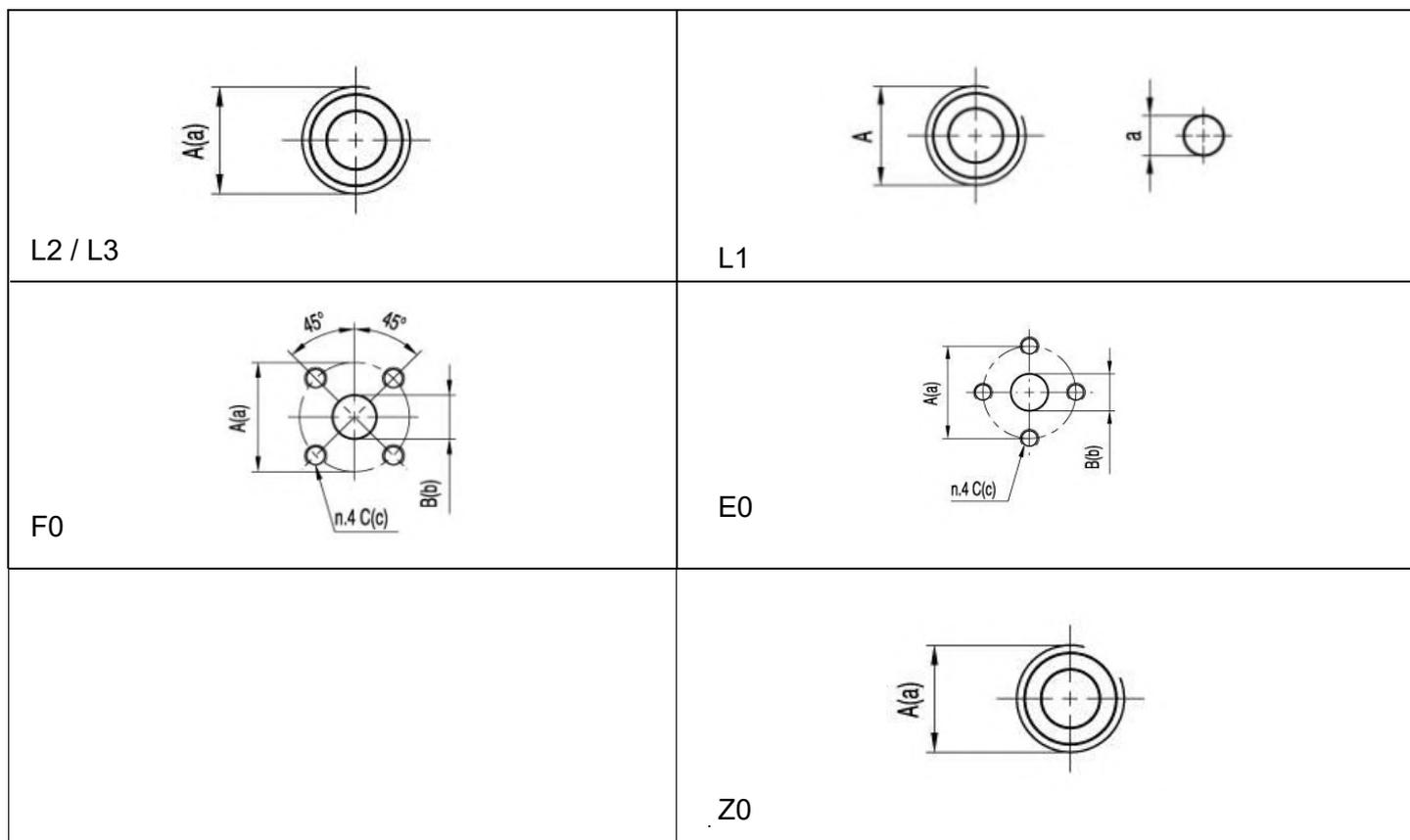
G0

Max. torque / Maks. moment 20 Nm



T0

Max. torque / Maks. moment 25 Nm



Type / Тип		Inlet / Входящ	Outlet / Изходящ
		A	a
ALKP1...0,8 + ALKP1...8	L1	G3/8	Ø9
	L2	G3/8	G1/4
	L3	G3/8	G3/8
	Z0	M18x1.5	M14x1.5

Type / Тип		Inlet / Входящ			Outlet / Изходящ		
		A	B	C	a	b	c
ALKP1...0,8 + ALKP1...8	F0	30	12	M6	30	12	M6
	E0	30	12	M6	30	12	M6

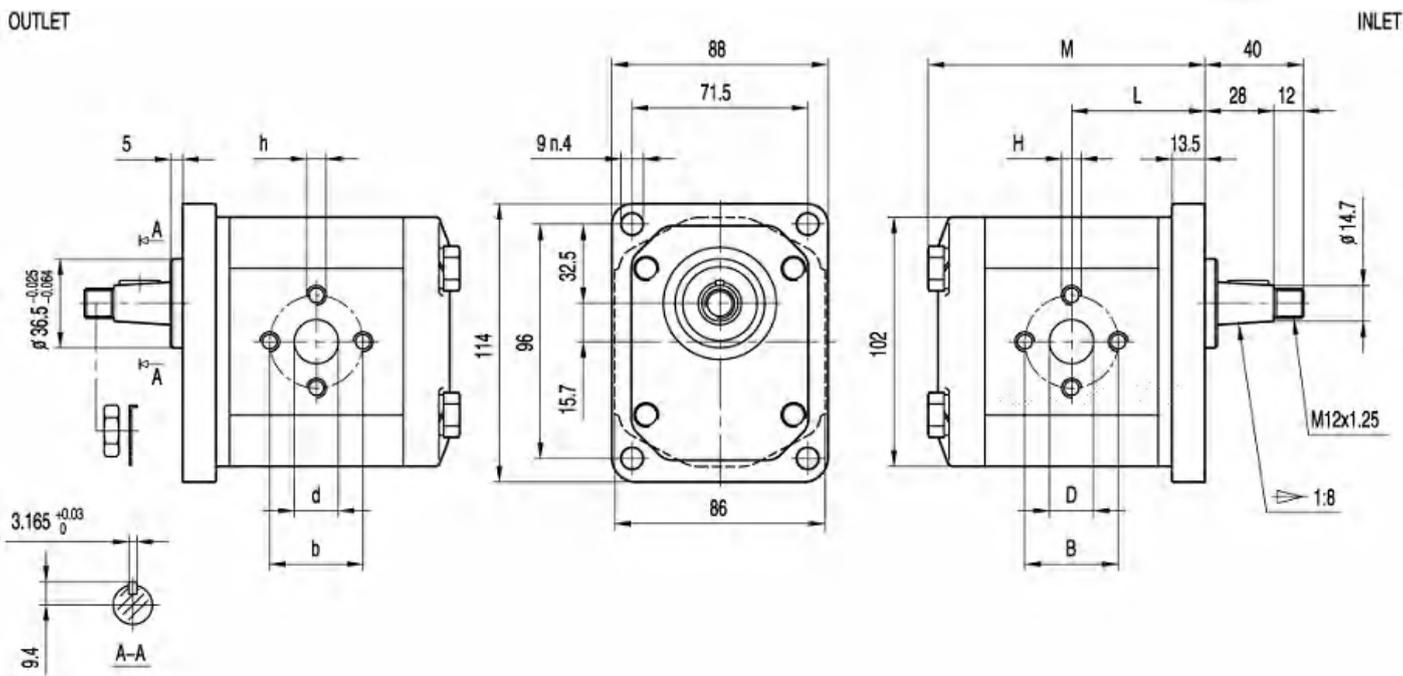
1 2 3 4 5 6/7 8 9

ALHP2 - A0 - X - 14 - T0 - RR0 - без - без

1	2	3	4	5	6	7	8	9			
Series / Серия	Front cover / Фланец	Rotation / Посока на въртене	Size / Обем	Shafts / Вал	Port position / Позиция на портове	Ports / Портове	Seals / Уплътнения	Options / Опции			
ALHP2	A0	X Right / Надясно	3	T0	без Side inlet and side outlet / Страничен вход и страничен изход	E0/E1/E4	без	Range between -10°C and +80°C, inlet pressure up to max. 3 bar absolute / от -10°C до +80°C, макс. наляг. на входа 3 бара	без	Without options / Без опции	
			4	T1					Yx	Pressure relief valve. x = 3...250 bar. / С предпазно-преливен клапан от 5 до 250 бара	
			6	C0					Px	Pressure relief valve. x = 5...250 bar. / С предпазно-преливен клапан от 5 до 250 бара	
			8	C1							
			10	C2							
	ALHM2	B2	Y Left / Наляво	12	C3	R Back inlet and back outlet / Заден входящ и заден изходящ	L0/L1/L3/L4	V	Version suitable for fluid at hi- temperature, range between -10°C and +120°C / от -10°C до +120°C, високотемпературни	F _{x1,x2}	3-way flow control valve. x ₁ =100...180 bar, x ₂ =2...30L/min. / Трипътен регулатор на дебит с предпазно-преливен клапан x1 =100...180 bar, x2 =2...30L/min. /
				14	C4					Qx	3-way flow control valve, x =2...30/ min. / Трипътен регулатор на дебит, от 2 до 30 l/min
				16	C6					EL	Pump made of aluminium / Помпа изцяло алуминиева
				18	G0					Q0	Internal drain / Вътрешна оттечка
				20	G1					Q1	External drain G1/4 / Външна оттечка G1/4
	Q2	Z Two-way / Двупосочно	22	G1		U0/U2	N	Inlet pressure up to max. 10 bar absolute / за входно налягане от 3 бар до 10 бар	Q3	External drain 7/16 - 20 UNF / Външна оттечка 7/16 - 20 UNF	
			25	H0							
			28	S3							
			30								

M6 thread depth 12. M8 thread depth 17. To mount the pump, n.4 M10 screws, with a torque wrench setting fixed at 70...75 Nm. Shaft M12x1.25 nut, with a torque wrench setting fixed at 50 Nm.

Резба М6 с дълбочина 12 мм. Резба М8 с дълбочина 17 мм. За монтаж, 4 броя М10 болта, затегнати на 70-75 Nm. Гайка на вала - М12х1,25 мм, затегната на 50 Nm.

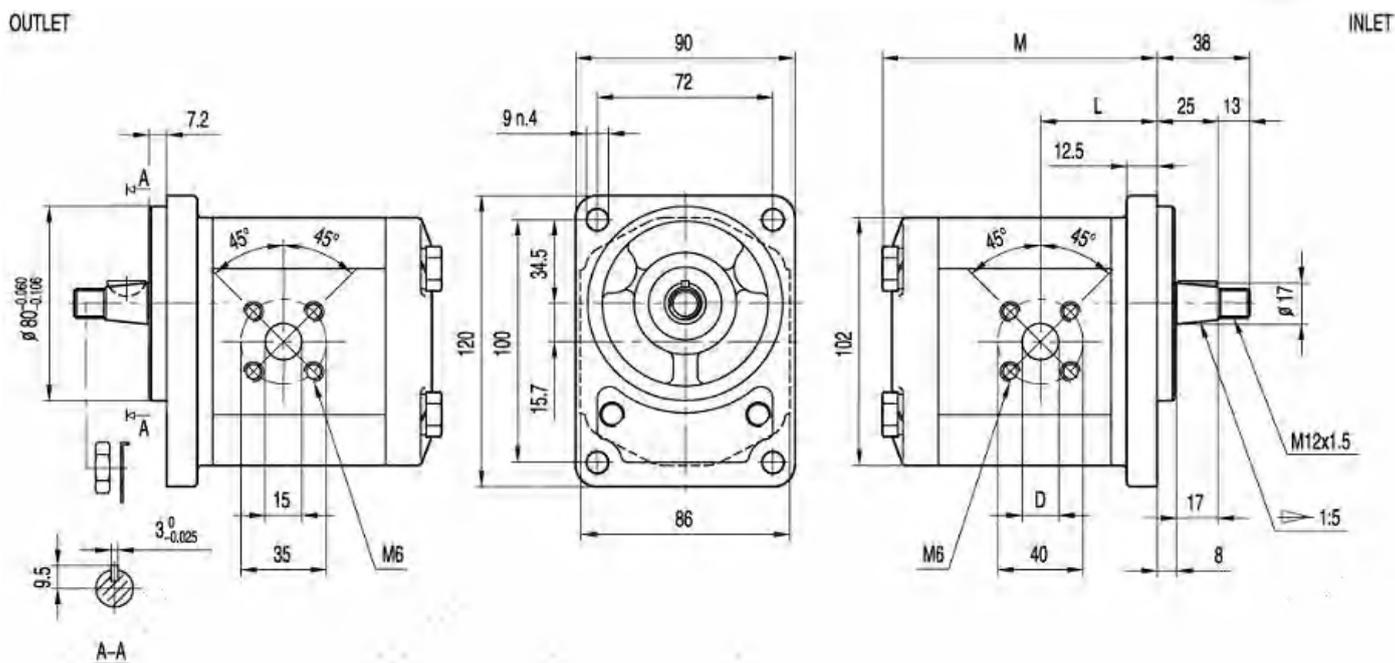


Technical information / Техническа информация

Type / Тип	Displacement / Обем (cm ³ /rev)	Max. pressure / Макс. налягане			Max. speed / Макс. скорост (r/min)	Min. speed / Мин. скорост (r/min)	Dimensions / Размери							
		P1 bar	P2 bar	P3 bar			M mm	L mm	B mm	D mm	H mm	b mm	d mm	h mm
ALHP2-B0-X-3-T0-E0	3	270	285	300	4000	800	91.1	43.6	30	13	M6	30	13	M6
ALHP2-B0-X-4-T0-E0	4	270	285	300	4000	600	92.7	44.4	30	13	M6	30	13	M6
ALHP2-B0-X-6-T0-E0	6	270	285	300	4000	600	96	46	30	13	M6	30	13	M6
ALHP2-B0-X-8-T0-E0	8	270	285	300	3500	500	99.3	47.7	30	13	M6	30	13	M6
ALHP2-B0-X-10-T0-E1	10	270	285	300	3000	500	102.6	49.3	60	20	M8	30	13	M6
ALHP2-B0-X-12-T0-E1	12	270	285	300	3000	500	105.9	51	60	20	M8	30	13	M6
ALHP2-B0-X-14-T0-E1	14	250	265	280	4000	500	109.3	52.7	60	20	M8	30	13	M6
ALHP2-B0-X-16-T0-E1	16	250	265	280	4000	500	112.7	54.4	60	20	M8	30	13	M6
ALHP2-B0-X-18-T0-E1	18	250	265	280	3600	400	116	56	60	20	M8	30	13	M6
ALHP2-B0-X-20-T0-E1	20	220	235	250	3200	400	119.3	57.7	60	20	M8	30	13	M6
ALHP2-B0-X-22-T0-E1	22	220	235	250	3000	400	122.6	59.3	60	20	M8	30	13	M6
ALHP2-B0-X-25-T0-E1	25	200	215	230	3000	400	127.6	61.8	60	20	M8	30	13	M6
ALHP2-B0-X-28-T0-E1	28	180	190	200	2500	400	132.6	64.3	60	20	M8	30	13	M6
ALHP2-B0-X-30-T0-E1	30	160	170	180	2500	400	135.9	66	60	20	M8	30	13	M6

M6 threads depth 13. To mount the pump, n.4 M10 screws, with a torque wrench setting fixed at 70...75 Nm. Shaft M12x1.5 nut, with a torque wrench setting fixed at 50 Nm.

Резба М6 с дълбочина 13 мм. За монтаж 4 бр. М10 болта, затегнати на 70-75 Nm. Гайка на вала - М12х1,5 затегната на 50 Nm.

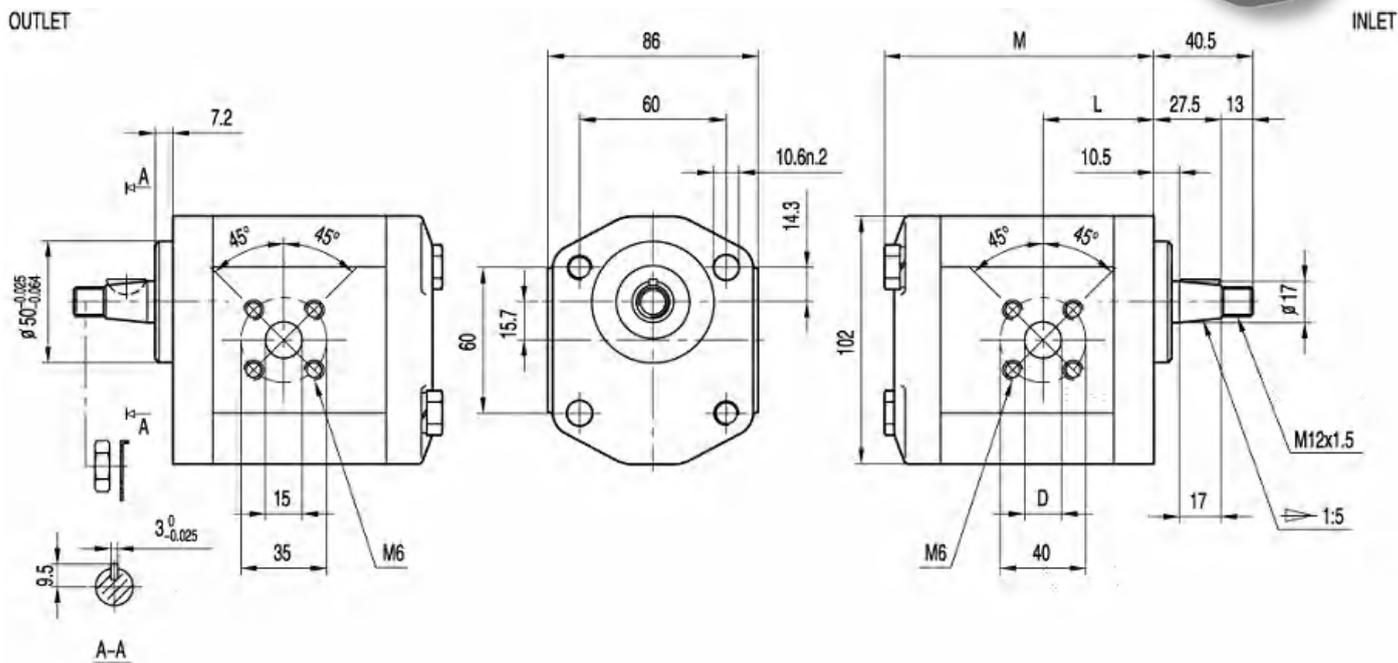


Technical information / Техническа информация

Type / Тип	Displacement / Обем (cm ³ /rev)	Max. pressure / Макс. налягане			Max. speed / Макс. скорост (r/min)	Min. speed / Мин. скорост (r/min)	Dimensions / Размери		
		P1	P2	P3			M	L	D
		bar	bar	bar			mm	mm	mm
ALHP2-B2-X-3-T1-F0	3	270	285	300	4000	800	91.1	39.9	15
ALHP2-B2-X-4-T1-F0	4	270	285	300	4000	600	92.7	39.9	15
ALHP2-B2-X-6-T1-F0	6	270	285	300	4000	600	96	41.1	15
ALHP2-B2-X-8-T1-F1	8	270	285	300	3500	500	99.3	43.2	20
ALHP2-B2-X-10-T1-F1	10	270	285	300	3000	500	102.6	43.7	20
ALHP2-B2-X-12-T1-F1	12	270	285	300	3000	500	105.9	47.5	20
ALHP2-B2-X-14-T1-F1	14	250	265	280	4000	500	109.3	47.5	20
ALHP2-B2-X-16-T1-F1	16	250	265	280	4000	500	112.7	47.5	20
ALHP2-B2-X-18-T1-F1	18	250	265	280	3600	400	116	47.5	20
ALHP2-B2-X-20-T1-F1	20	220	235	250	3200	400	119.3	47.5	20
ALHP2-B2-X-22-T1-F1	22	220	235	250	3000	400	122.6	55.1	20
ALHP2-B2-X-25-T1-F1	25	200	215	230	3000	400	127.6	61.8	20
ALHP2-B2-X-28-T1-F1	28	180	190	200	2500	400	132.6	64.3	20
ALHP2-B2-X-30-T1-F1	30	160	170	180	2500	400	135.9	66	20

M6 threads depth 13. To mount the pump, n.2 M10 screws, with a torque wrench setting fixed at 40...45 Nm. Shaft M12x1.5 nut, with a torque wrench setting fixed at 50 Nm.

Резба М6 с дълбочина 13 мм. За монтаж - 2 бр. М10 болта, затегнати на 40-45 Nm. Гайка на вала - М12х1,5, затегната на 50 Nm.



Technical information / Техническа информация

Type / Тип	Displacement / Обем (cm ³ /rev)	Max. pressure / Макс. налягане			Max. speed / Макс. скорост (r/min)	Min. speed / Мин. скорост (r/min)	Dimensions / Размери		
		P1	P2	P3			M	L	D
		bar	bar	bar			mm	mm	mm
ALHP2-Q0-X-3-T1-F0	3	270	285	300	4000	800	88.6	37.4	15
ALHP2-Q0-X-4-T1-F0	4	270	285	300	4000	600	90.2	37.4	15
ALHP2-Q0-X-6-T1-F0	6	270	285	300	4000	600	93.5	38.6	15
ALHP2-Q0-X-8-T1-F1	8	270	285	300	3500	500	96.8	40.7	20
ALHP2-Q0-X-10-T1-F1	10	270	285	300	3000	500	100.1	41.2	20
ALHP2-Q0-X-12-T1-F1	12	270	285	300	3000	500	103.4	45	20
ALHP2-Q0-X-14-T1-F1	14	250	265	280	4000	500	106.8	45	20
ALHP2-Q0-X-16-T1-F1	16	250	265	280	4000	500	110.2	45	20
ALHP2-Q0-X-18-T1-F1	18	250	265	280	3600	400	113.5	45	20
ALHP2-Q0-X-20-T1-F1	20	220	235	250	3200	400	116.8	45	20
ALHP2-Q0-X-22-T1-F1	22	220	235	250	3000	400	120.1	52.6	20
ALHP2-Q0-X-25-T1-F1	25	200	215	230	3000	400	125.1	59.3	20
ALHP2-Q0-X-28-T1-F1	28	180	190	200	2500	400	130.1	61.8	20
ALHP2-Q0-X-30-T1-F1	30	160	170	180	2500	400	133.4	63.5	20

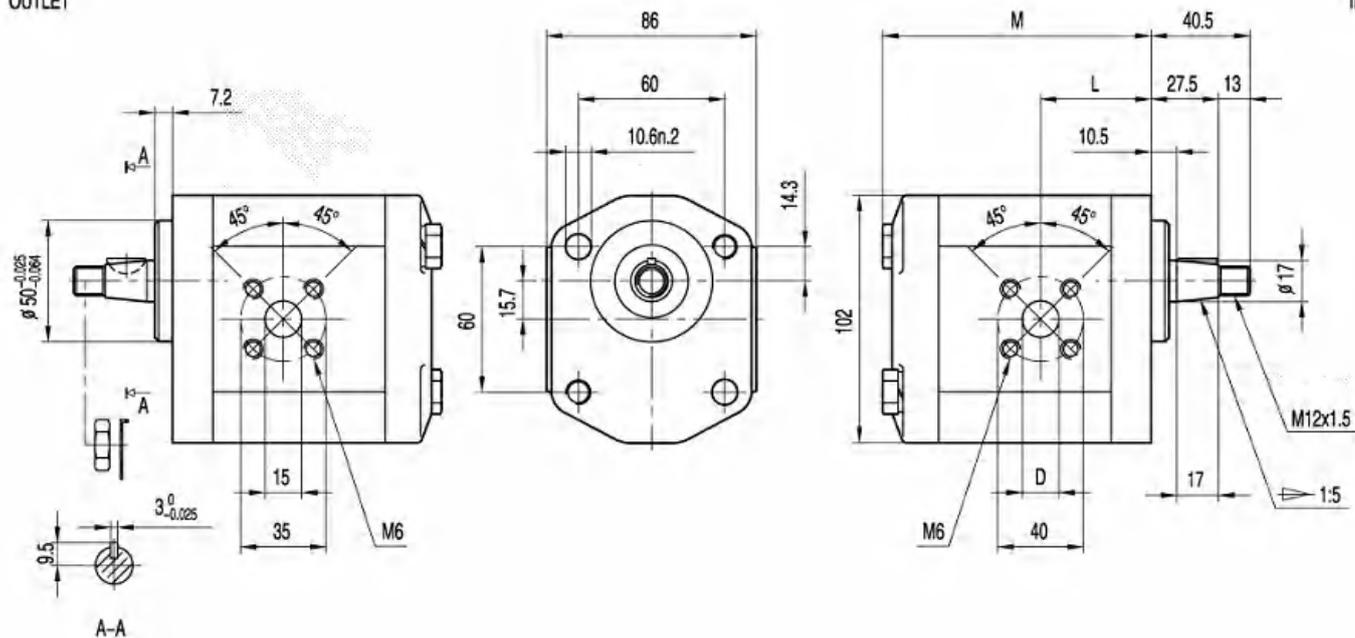


M6 threads depth 13. To mount the pump, n.2 M10 screws, with a torque wrench setting fixed at 40...45 Nm. Shaft M12x1.5 nut, with a torque wrench setting fixed at 50 Nm.

Резба М6 с дълбочина 13 мм. За монтаж - 2 бр. М10 болта, затегнати на 40-45 Nm. Гайка на вала - М12х1,5, затегната на 50 Nm.

OUTLET

INLET

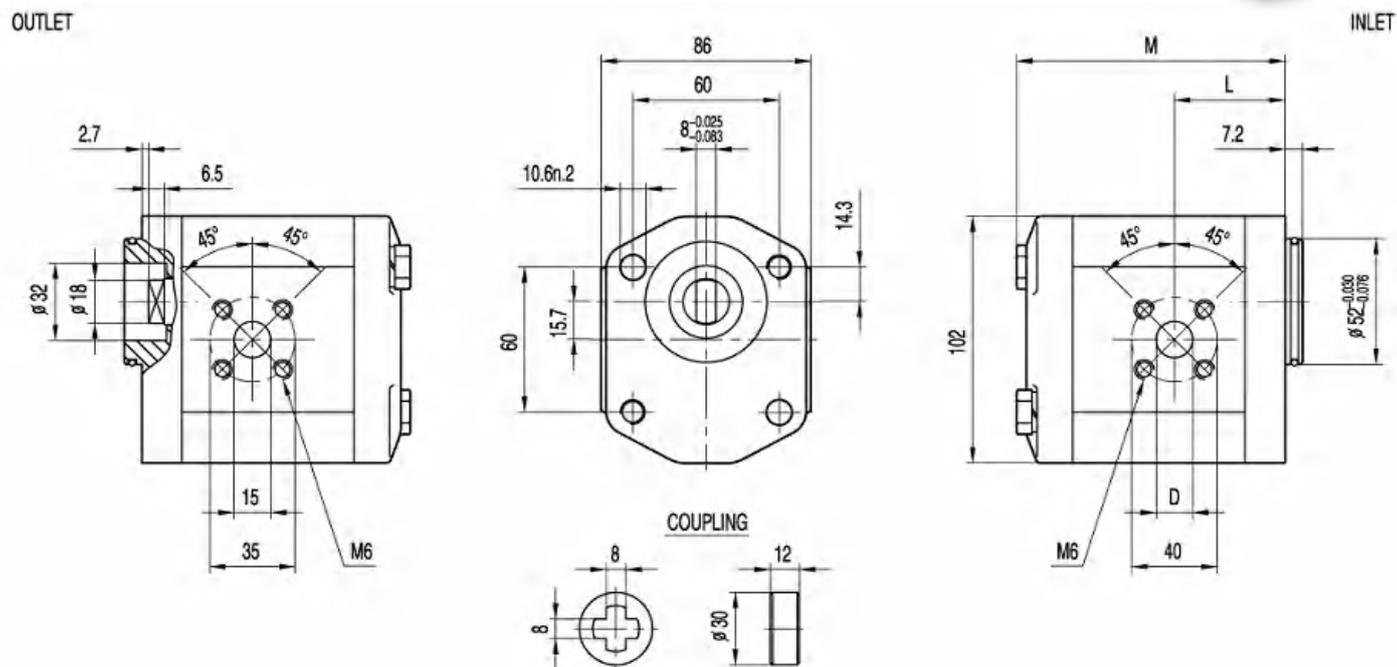


Technical information / Техническа информация

Type / Тип	Displacement / Обем (cm ³ /rev)	Max. pressure / Макс. налягане			Max. speed / Макс. скорост (r/min)	Min. speed / Мин. скорост (r/min)	Dimensions / Размери		
		P1 bar	P2 bar	P3 bar			M mm	L mm	D mm
ALHP2Q1-X-3-T1-F0	3	270	285	300	4000	800	88.6	37.4	15
ALHP2Q1-X-4-T1-F0	4	270	285	300	4000	600	90.2	37.4	15
ALHP2Q1-X-6-T1-F0	6	270	285	300	4000	600	93.5	38.6	15
ALHP2Q1-X-8-T1-F1	8	270	285	300	3500	500	96.8	40.7	20
ALHP2Q1-X-10-T1-F1	10	270	285	300	3000	500	100.1	41.2	20
ALHP2Q1-X-12-T1-F1	12	270	285	300	3000	500	103.4	45	20
ALHP2Q1-X-14-T1-F1	14	250	265	280	4000	500	106.8	45	20
ALHP2Q1-X-16-T1-F1	16	250	265	280	4000	500	110.2	45	20
ALHP2Q1-X-18-T1-F1	18	250	265	280	3600	400	113.5	45	20
ALHP2Q1-X-20-T1-F1	20	220	235	250	3200	400	116.8	45	20
ALHP2Q1-X-22-T1-F1	22	220	235	250	3000	400	120.1	52.6	20
ALHP2Q1-X-25-T1-F1	25	200	215	230	3000	400	125.1	59.3	20
ALHP2Q1-X-28-T1-F1	28	180	190	200	2500	400	130.1	61.8	20
ALHP2Q1-X-30-T1-F1	30	160	170	180	2500	400	133.4	63.5	20

M6 threads depth 13. To mount the pump, n.2 M10 screws, with a torque wrench setting fixed at 40...45 Nm. Shaft M12x1.5 nut, with a torque wrench setting fixed at 70 Nm.

Резба М6 с дълбочина 13 мм. За монтаж - 2 бр. М10 болта, затегнати на 40-45 Nm. Гайка на вала - М12х1,5, затегната на 70 Nm.



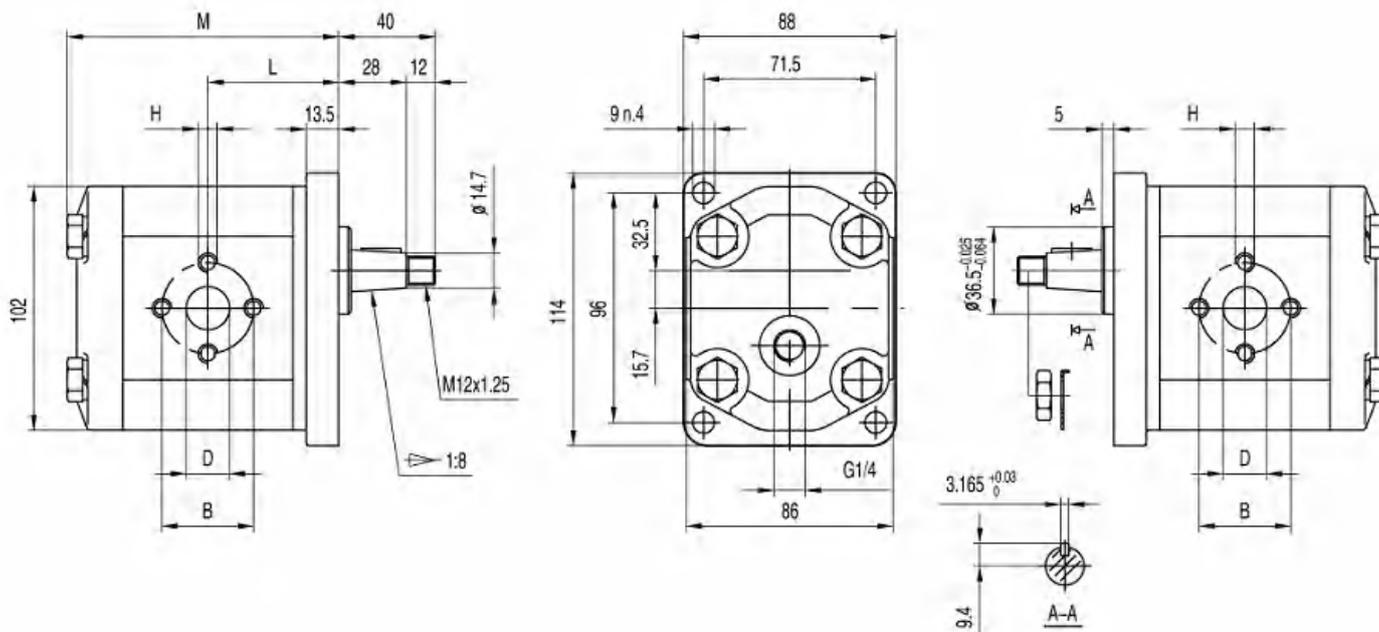
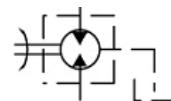
Technical information / Техническа информация

Type / Тип	Displacement / Обем (cm ³ /rev)	Max. pressure / Макс. налягане			Max. speed / Макс. скорост (r/min)	Min. speed / Мин. скорост (r/min)	Dimensions / Размери		
		P1 bar	P2 bar	P3 bar			M mm	L mm	D mm
ALHP2-Q2-X-3-G1-F0	3	270	285	300	4000	800	88.6	37.4	15
ALHP2-Q2-X-4-G1-F0	4	270	285	300	4000	600	90.2	37.4	15
ALHP2-Q2-X-6-G1-F0	6	270	285	300	4000	600	93.5	38.6	15
ALHP2-Q2-X-8-G1-F1	8	270	285	300	3500	500	96.8	40.7	20
ALHP2-Q2-X-10-G1-F1	10	270	285	300	3000	500	100.1	41.2	20
ALHP2-Q2-X-12-G1-F1	12	270	285	300	3000	500	103.4	45	20
ALHP2-Q2-X-14-G1-F1	14	250	265	280	4000	500	106.8	45	20
ALHP2-Q2-X-16-G1-F1	16	250	265	280	4000	500	110.2	45	20
ALHP2-Q2-X-18-G1-F1	18	250	265	280	3600	400	113.5	45	20
ALHP2-Q2-X-20-G1-F1	20	220	235	250	3200	400	116.8	45	20
ALHP2-Q2-X-22-G1-F1	22	220	235	250	3000	400	120.1	52.6	20
ALHP2-Q2-X-25-G1-F1	25	200	215	230	3000	400	125.1	59.3	20
ALHP2-Q2-X-28-G1-F1	28	180	190	200	2500	400	130.1	61.8	20
ALHP2-Q2-X-30-G1-F1	30	160	170	180	2500	400	133.4	63.5	20



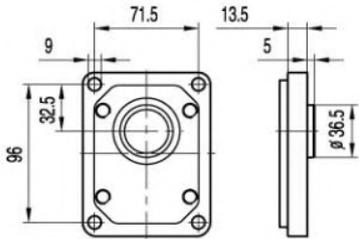
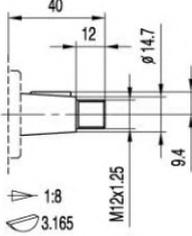
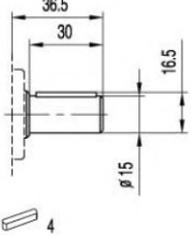
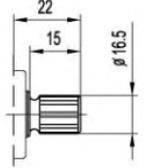
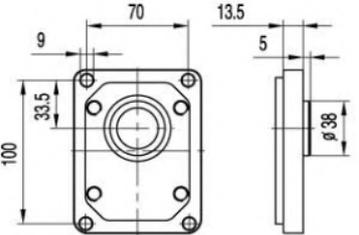
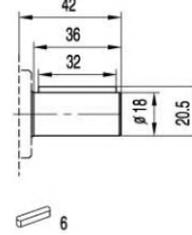
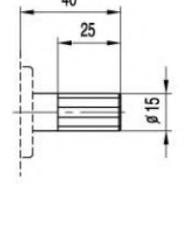
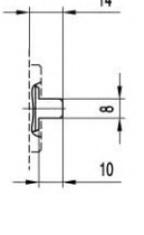
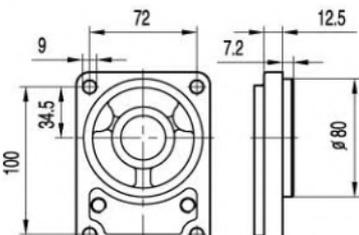
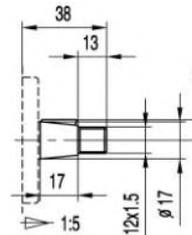
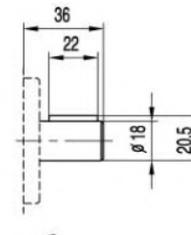
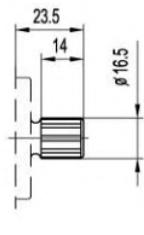
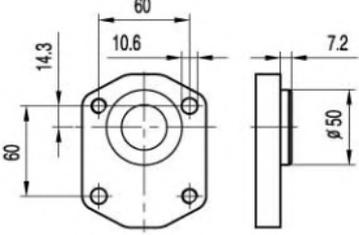
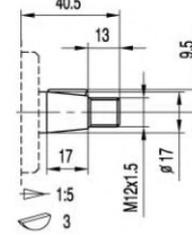
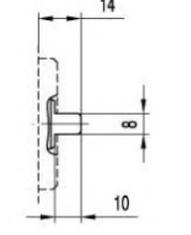
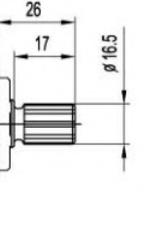
M6 threads depth 13, M8 threads depth 17. To mount the pump, n.4 M10 screws, with a torque wrench setting fixed at 70...75 Nm. Shaft M12x1.25 nut, with a torque wrench setting fixed at 50 Nm.

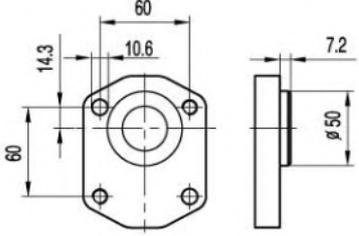
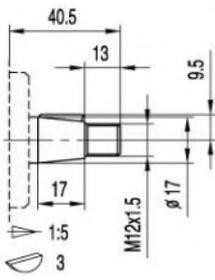
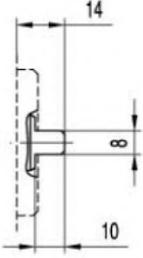
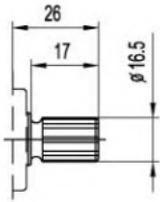
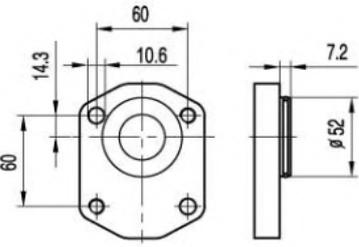
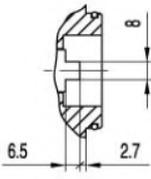
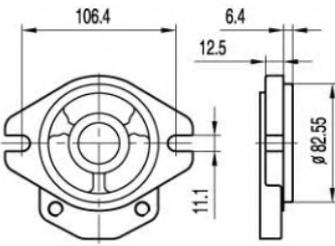
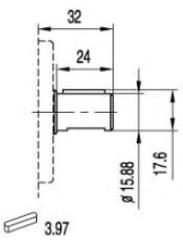
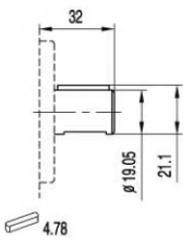
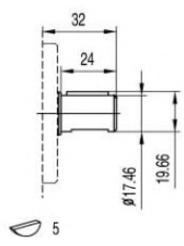
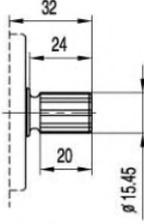
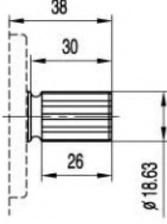
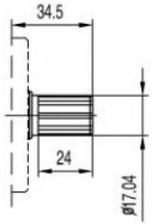
Резба М6 с дълбочина 13 мм, М8 резба с дълбочина 17 мм. За монтаж, 4 броя М10 болта, затегнати на 70-75 Nm. Гайка на вала М12х1,25, затегната на 50 Nm.

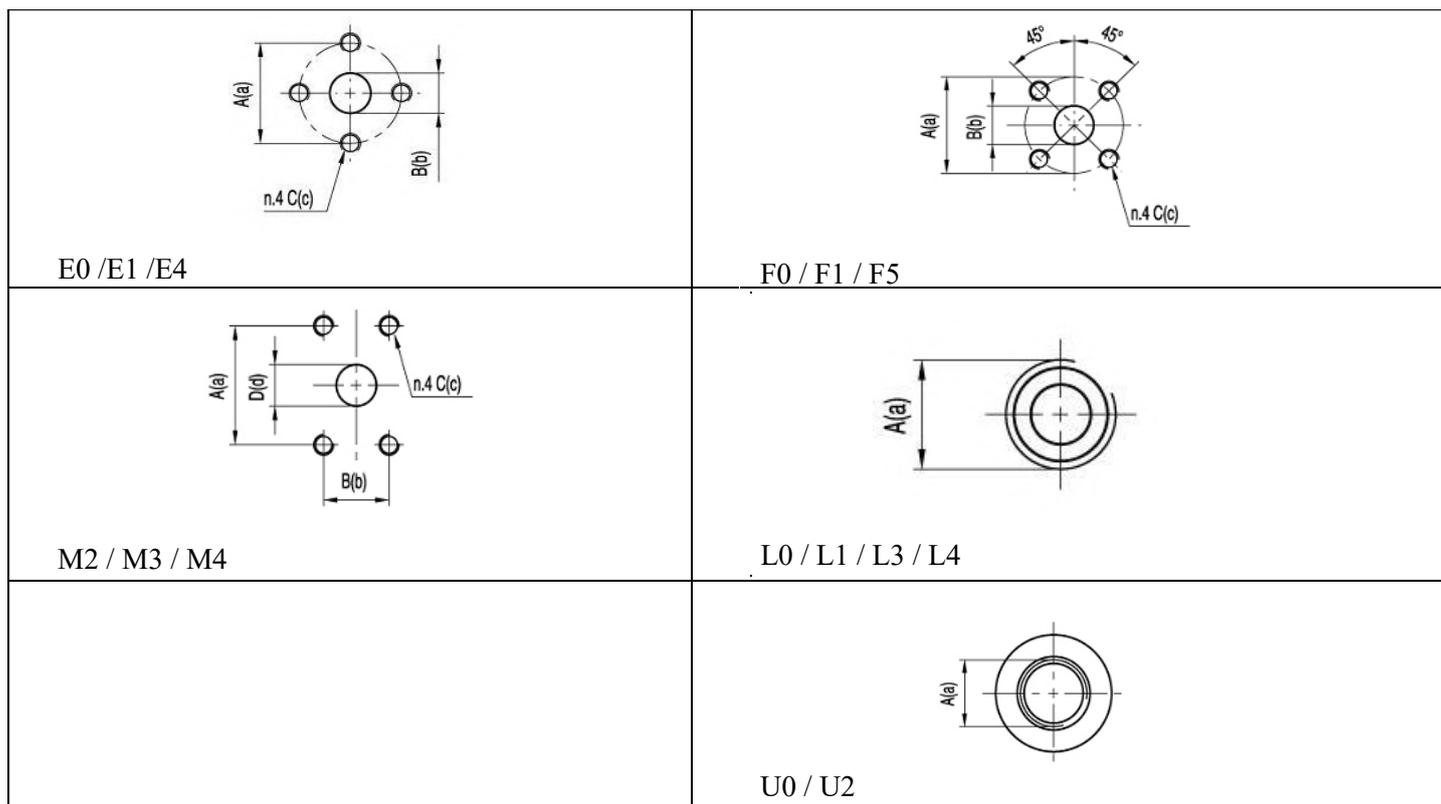


Technical information / Техническа информация

Type / Тип	Displacement / Обем (cm ³ /rev)	Max. pressure / Макс. налягане			Max. speed / Макс. скорост (r/min)	Min. speed / Мин. скорост (r/min)	Dimensions / Размери				
		P1 bar	P2 bar	P3 bar			M mm	L mm	B mm	D mm	H mm
ALHM2-B0-Z-3-T0-E0-Q1	3	270	285	300	4000	800	91.1	43.6	30	13	M6
ALHM2-B0-Z-4-T0-E0-Q1	4	270	285	300	4000	600	92.7	44.4	30	13	M6
ALHM2-B0-Z-6-T0-E0-Q1	6	270	285	300	4000	600	96	46	30	13	M6
ALHM2-B0-Z-8-T0-E0-Q1	8	270	285	300	3500	500	99.3	47.7	30	13	M6
ALHM2-B0-Z-10-T0-E4-Q1	10	270	285	300	3000	500	102.6	49.3	40	20	M8
ALHM2-B0-Z-12-T0-E4-Q1	12	270	285	300	3000	500	105.9	51	40	20	M8
ALHM2-B0-Z-14-T0-E4-Q1	14	250	265	280	4000	500	109.3	52.7	40	20	M8
ALHM2-B0-Z-16-T0-E4-Q1	16	250	265	280	4000	500	112.7	54.4	40	20	M8
ALHM2-B0-Z-18-T0-E4-Q1	18	250	265	280	3600	400	116	56	40	20	M8
ALHM2-B0-Z-20-T0-E4-Q1	20	220	235	250	3200	400	119.3	57.7	40	20	M8
ALHM2-B0-Z-22-T0-E4-Q1	22	220	235	250	3000	400	122.6	59.3	40	20	M8
ALHM2-B0-Z-25-T0-E4-Q1	25	200	215	230	3000	400	127.6	61.8	40	20	M8
ALHM2-B0-Z-28-T0-E4-Q1	28	180	190	200	2500	400	132.6	64.3	40	20	M8
ALHM2-B0-Z-30-T0-E4-Q1	30	160	170	180	2500	400	135.9	66	40	20	M8

 <p>B0 <i>europa / европейски</i></p>	 <p>T0 Max. torque / Maks. moment 200 Nm</p>	 <p>C4 135 Nm</p>	 <p>S3 150 Nm</p>
 <p>B1</p>	 <p>C2 Max. torque / Maks. moment 150 Nm</p>	 <p>H0 185 Nm</p>	 <p>G0 100 Nm</p>
 <p>B2 <i>german / немски</i></p>	 <p>T1 Max. torque / Maks. moment 180 Nm</p>	 <p>C3 150 Nm</p>	 <p>S3 150 Nm</p>
 <p>Q0 <i>german with 2 screws / Немски с 2 болта</i></p>	 <p>T1 Max. torque / Maks. moment 180 Nm</p>	 <p>G0 100 Nm</p>	 <p>S3 150 Nm</p>

 <p>Q1 <i>german with 2 screws / Немски с 2 болта</i></p>	 <p>T1 Max. torque / Maks. moment 180 Nm</p>  <p>G0 100 Nm</p>  <p>S3 150 Nm</p>
 <p>Q2 <i>german with 4 screws / Немски с 4 болта</i></p>	 <p>G1 Max. torque / Maks. moment 100 Nm</p>
 <p>A0 <i>SAE "A" 2 screws / SAE "A" за 2 болта</i></p>	 <p>C0 Max. torque / Maks. moment 140 Nm</p>  <p>C1 160 Nm</p>  <p>C6 180 Nm</p>
	 <p>DP16/32-30°-9T S0 Max. torque / Maks. moment 185 Nm</p>  <p>DP16/32-30°-11T S1 200 Nm</p>  <p>DP16/32-30°-10T S8 190 Nm</p>



Technical information of ports / Техническа информация за портовете

Type / Тип		Inlet / Входящ			Outlet / Изходящ		
		A	B	C	a	b	c
ALHP2...3 + ALHP2...8	E0	30	13	M6	30	13	M6
ALHP2...10 + ALHP2...30	E1	40	20	M8	30	13	M6
ALHP2...8 + ALHP2...10	E4	40	13	M8	40	13	M8
ALHP2...12 + ALHP2...20		40	19	M8	40	13	M8
ALHP2...22 + ALHP2...28		40	19	M8	40	19	M8
ALHP2...30		40	21	M8	40	19	M8
ALHP2...3 + ALHP2...6	F0	40	15	M6	35	15	M6
ALHP2...8 + ALHP2...30	F1	40	20	M6	35	15	M6
ALHP2...16 + ALHP2...30	F5	55	26	M8	55	18	M8

Type / Тип		Inlet / Входящ				Outlet / Изходящ			
		A	B	C	D	a	b	c	d
ALHP2...3 + ALHP2...16	M2	38.1	17.48	5/16-18UNC	13	38.1	17.48	5/16-18UNC	13
ALHP2...18 + ALHP2...20	M3	47.63	22.23	3/8-16UNC	20	38.1	17.48	5/16-18UNC	13
ALHP2...22 + ALHP2...30	M4	47.63	22.23	3/8-16UNC	20	47.63	22.23	3/8-16UNC	20

Type / Тип		Inlet / Входящ		Outlet / Изходящ	
		A		a	
ALHP2...3 + ALHP2...6	L0	G1/2		G1/2	
ALHP2...8 + ALHP2...30	L1	G3/4		G1/2	
ALHP2...16 + ALHP2...30	L3	G1		G3/4	
ALHP2...8 + ALHP2...30	L4	G3/4		G3/4	
ALHP2...3 + ALHP2...28	U0	11/16-12UNF		7/8-14UNF	
ALHP2...3 + ALHP2...28	U2	7/8-14UNF		3/4-16UNF	

1 2 3 4 5 6/7 8 9

ALHP2.5 - A0 - X - 19 - C0 - Z1 - без - EL

1	2	3	4	5	6	7	8	9	
Series / Серия	Front cover / Przednia pokrywa	Rotation / Kierunek obrotów	Size / Обем	Shafts / Валове	Port position / Позиция на портове	Ports / Портове	Seals / Уплътнения	Options / Опции	
ALHP2.5	A0	X <i>Right / Надясно</i>	10	C0	без	Side inlet and side outlet / Страничен вход и изход	F2	без	Without additional options / Без допълнителни опции
			12,5						
			14						
			16						
			18						
			19						
			20						
	A1	Y <i>Left / Наляво</i>	23	H0	без	Side inlet and side outlet / Страничен вход и изход	U0/U1	без	Without additional options / Без допълнителни опции
			25						
			26,5						
			28						
			30						
			32						
			36						
A1	Z <i>Two-way / Двупосочно</i>	30	H1	без	Side inlet and side outlet / Страничен вход и изход	R0/R1	без	Without additional options / Без допълнителни опции	
		32							
		36							
		40							
			45	S3				Without additional options / Без допълнителни опции	
						Z0/Z1/Z2		Pump made of aluminium / Изцяло алуминиева помпа	

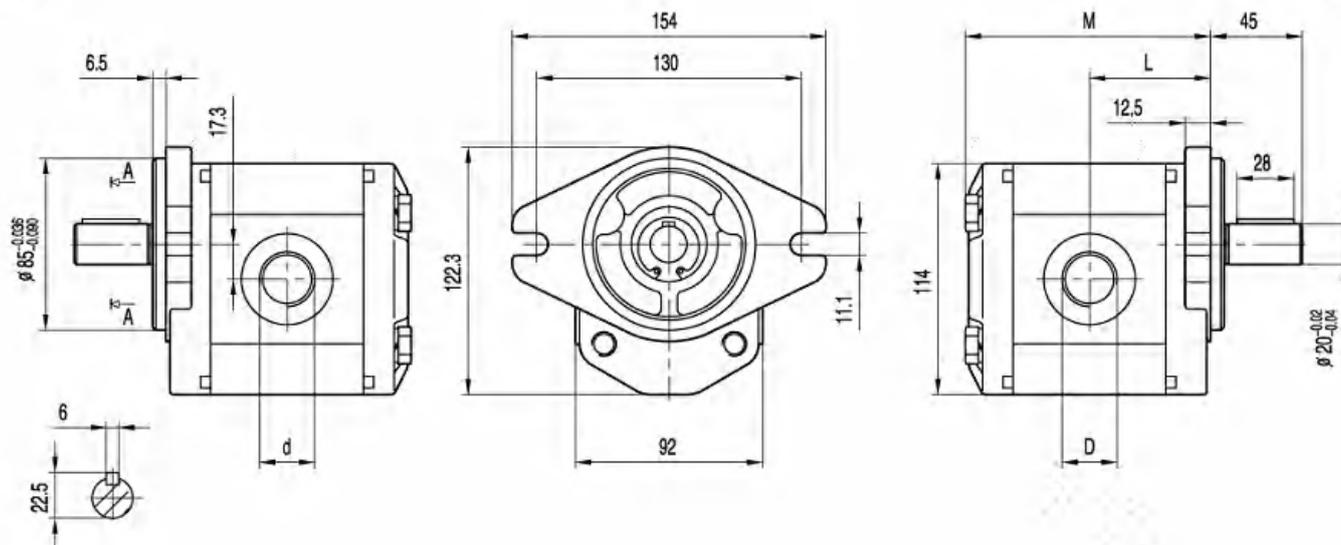


M18x1.5 threads depth 15. M22x1.5 threads depth 16. M27x2 threads depth 19. M33x2 threads depth 20. To mount the pump, n.4 M12 screws, with a torque wrench setting fixed at 75...80 Nm.

M18x1,5 Резба с дълбочина 15 мм. M 22x1,5 Резба с дълбочина 16 мм. M27x2 Резба с дълбочина 19 мм. M33x2 Резба с дълбочина 20 мм. За монтаж - 4 броя M12 болта, затегнати на 75-80 Nm.

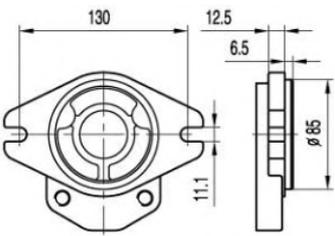
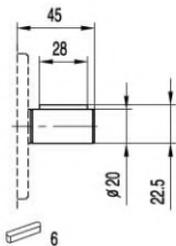
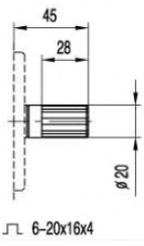
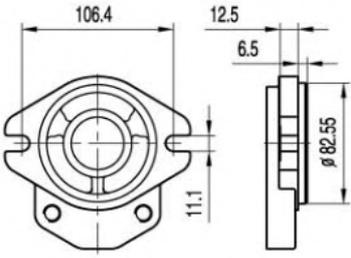
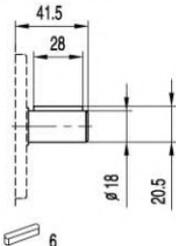
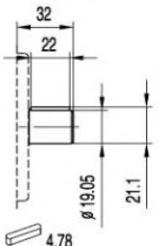
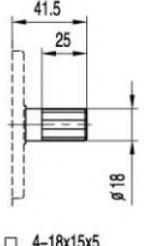
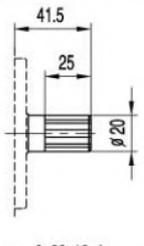
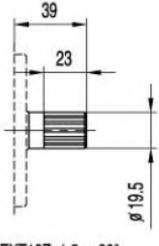
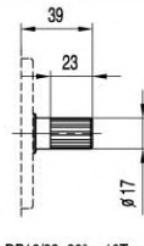
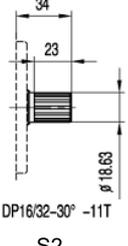
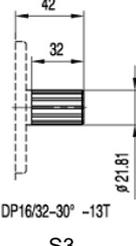
OUTLET

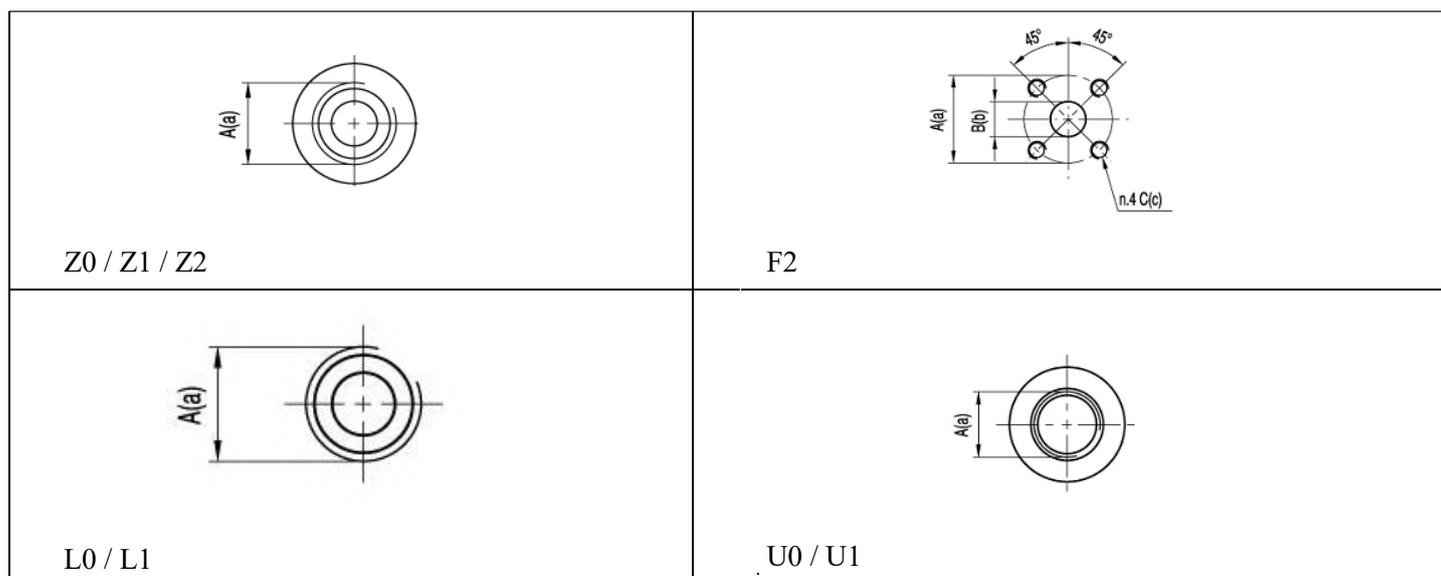
INLET



Technical information / Техническа информация

Type / Тип	Displacement / Обем (cm/rev) ³	Max. pressure Макс. налягане			Max. speed / Макс. скорост (r/min)	Min. speed / Мин. скорост (r/min)	Dimensions/Размери			
		P1	P2	P3			M	L	D	d
		bar	bar	bar			mm	mm		
ALHP2.5A0-X-10-T1-Z0	10	250	270	290	4000	800	110	53.3	M22x1-5	M18x1.5
ALHP2.5A0-X-12,5-T1-Z0	12,5	250	270	290	4000	800	113	54.8	M22x1-5	M18x1.5
ALHP2.5A0-X-14-T1-Z0	14	250	270	290	4000	700	115	55.8	M22x1-5	M18x1.5
ALHP2.5A0-X-16-T1-Z1	16	250	270	290	3500	700	118	57.1	M27x2	M22x1.5
ALHP2.5A0-X-18-T1-Z1	18	250	270	290	3500	600	120	58.3	M27x2	M22x1.5
ALHP2.5A0-X-19-T1-Z1	19	250	270	290	3500	600	121	58.8	M27x2	M22x1.5
ALHP2.5A0-X-20-T1-Z1	20	250	270	290	3000	500	123	59.6	M27x2	M22x1.5
ALHP2.5A0-X-23-T1-Z2	23	230	250	260	3500	500	126	61.3	M33x2	M27x2
ALHP2.5A0-X-25-T1-Z2	25	230	250	260	3500	500	129	62.6	M33x2	M27x2
ALHP2.5A0-X-26,5-T1-Z2	26,5	230	250	260	3500	500	131	63.6	M33x2	M27x2
ALHP2.5A0-X-28-T1-Z2	28	230	250	260	3500	500	133	64.6	M33x2	M27x2
ALHP2.5A0-X-30-T1-Z2	30	230	250	260	3000	400	135	65.6	M33x2	M27x2
ALHP2.5A0-X-32-T1-Z2	32	200	230	250	3000	400	138	67.1	M33x2	M27x2
ALHP2.5A0-X-36-T1-Z2	36	200	230	250	2750	400	142	69.1	M33x2	M27x2
ALHP2.5A0-X-40-T1-Z2	40	160	180	200	2500	400	148	71.6	M33x2	M27x2
ALHP2.5A0-X-45-T1-Z2	45	160	180	200	2500	400	153	74.6	M33x2	M27x2

 <p>A0</p>	 <p>C0</p> <p>Max. torque / Maks. moment 200 Nm</p>  <p>H0</p> <p>240 Nm</p>
 <p>A1</p>	 <p>C1</p> <p>Max. torque / Maks. moment 180 Nm</p>  <p>C2</p> <p>190 Nm</p>  <p>H1</p> <p>200 Nm</p>
	 <p>H2</p> <p>Max. torque / Maks. moment 180 Nm</p>  <p>S0</p> <p>190 Nm</p>  <p>S1</p> <p>200 Nm</p>
	 <p>S2</p> <p>Max. torque / Maks. moment 180 Nm</p>  <p>S3</p> <p>190 Nm</p>



Type / Тип		Inlet / Входящ				Outlet / Изходящ			
		A	B	C	D	a	b	c	d
ALHP2.5...10 ÷ ALHP2.5...16	F2	55	20	M8	R	55	13	M8	R
ALHP2.5...18 ÷ ALHP2.5...45	F2	55	25	M8	R	55	20	M8	R
ALHP2.5...10 ÷ ALHP2.5...14	Z0	M22x1.5	R	R	R	M18x1.5	R	R	R
ALHP2.5...16 ÷ ALHP2.5...20	Z1	M27x2	R	R	R	M22x1.5	R	R	R
ALHP2.5...23 ÷ ALHP2.5...45	Z2	M33x2	R	R	R	M27x2	R	R	R
ALHP2.5...10 ÷ ALHP2.5...23	U0	11/16R12UNF	R	R	R	7/8R14UNF	R	R	R
ALHP2.5...25 ÷ ALHP2.5...45	U1	15/16R12UNF	R	R	R	11/16R12UNF	R	R	R
ALHP2.5...10 ÷ ALHP2.5...23	L0	G3/4	R	R	R	G1/2	R	R	R
ALHP2.5...25 ÷ ALHP2.5...45	L1	G1	R	R	R	G3/4	R	R	R

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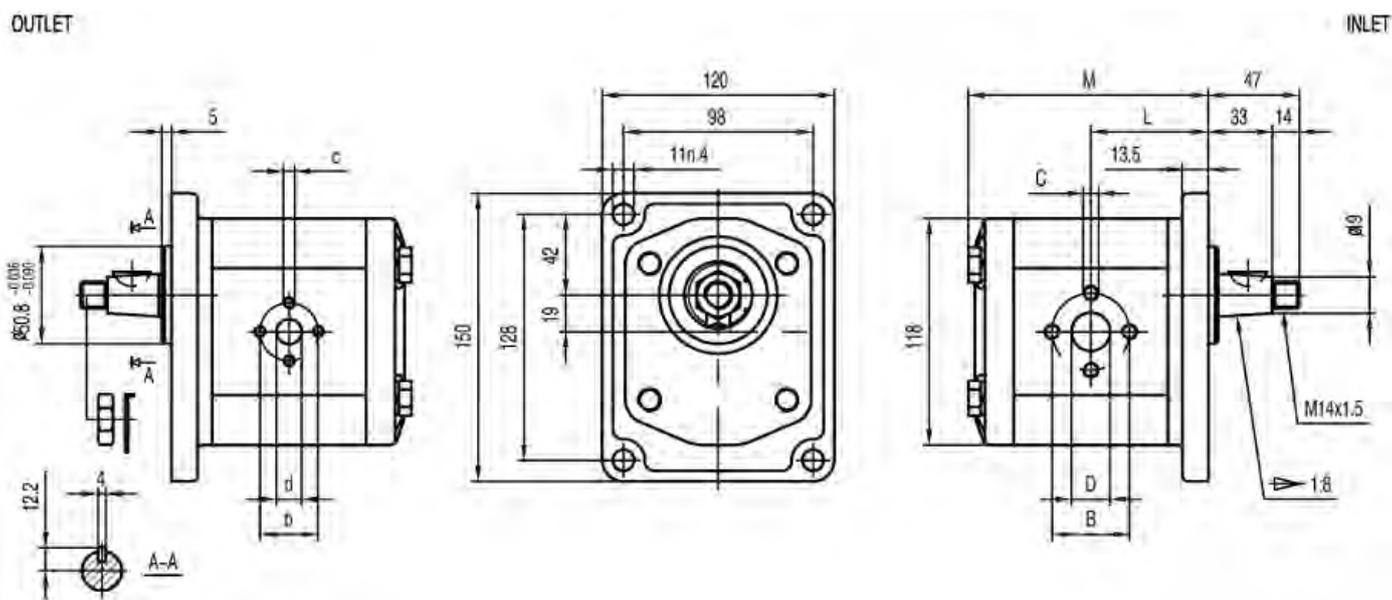
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ALHP2.6 - B0 - X - 19 - T0 - RZ1 - без

1	2	3	4	5	6	7	8	
Series / Серия	Front cover / Фланец	Rotation / Посока навъртене	Size / Обем	Shafts / Валове	Port position / Позиция на портове	Ports / Портове	Seals / Уплътнения	
ALHP2.6	B0	X <i>Right/Надясно</i>	6	T0	без	<i>Side inlet and side outlet /</i> Страничен вход и изход	E0/E1/E2	без <i>Range between -10°C and +80°C, inlet pressure up to max. 3 bar absolute / от -10°C до +80°C, макс. налягане на входа 3 bar</i>
			8	T1			F2	
			10	C2			L0/L1	
			12	C6			U0/U1	
			14	H1			R0/R1	
			16	H2			Z0/Z1/Z2	
	A1	Y <i>Left/Наляво</i>	19	S0	R	<i>Back inlet and back outlet /</i> Заден вход и изход		
			22	S1				
			25	S2				
			28	S3				
			30					
			32					
	A2	Z <i>Two-way / Двупосочно</i>	36					
			38					
			40					
			44					

To mount the pump, n.4 M10 screws, with a torque wrench setting fixed at 130...135 Nm. Shaft M14x1.5 nut, with a torque wrench setting fixed at 75 Nm.

За монтаж, 4 броя М10 болта, затегнати на 130-135 Nm. Гайка на вала - М14х1,5, затегнатата на 75 Nm.



Technical information / Техническа информация

Type / Тип	Displacement / Обем (cm/rev) ³	Max. pressure / Макс. налягане			Max. speed / Макс. скорост (r/min)	Min. speed / Мин. скорост (r/min)	Dimensions / Размери							
		P1	P2	P3			M	L	A	B	D	a	b	d
		bar	bar	bar			mm	mm	mm	mm	mm	mm	mm	mm
ALHP2.6-B0-X-6-T0-E0	6	250	280	300	4000	800	103	49.3	30	13	M6	30	13	M6
ALHP2.6-B0-X-8-T0-E0	8	250	280	300	4000	800	105	50.3	30	13	M6	30	13	M6
ALHP2.6-B0-X-10-T0-E1	10	250	280	300	4000	700	107	51.3	40	20	M8	30	13	M6
ALHP2.6-B0-X-12-T0-E1	12	250	280	300	3500	700	110	52.5	40	20	M8	30	13	M6
ALHP2.6-B0-X-14-T0-E1	14	250	280	300	3500	600	111	53.3	40	20	M8	30	13	M6
ALHP2.6-B0-X-16-T0-E1	16	250	280	300	3500	600	114	54.5	40	20	M8	30	13	M6
ALHP2.6-B0-X-19-T0-E1	19	250	280	300	3000	500	117	56.3	40	20	M8	30	13	M6
ALHP2.6-B0-X-22-T0-E2	22	250	280	300	3000	500	121	58	51	25	M10	40	18	M8
ALHP2.6-B0-X-25-T0-E2	25	250	280	300	3000	500	123	59.3	51	25	M10	40	18	M8
ALHP2.6-B0-X-28-T0-E2	28	250	280	300	3000	500	126	60.8	51	25	M10	40	18	M8
ALHP2.6-B0-X-30-T0-E2	30	230	250	260	3000	500	129	62	51	25	M10	40	18	M8
ALHP2.6-B0-X-32-T0-E2	32	230	250	260	3000	400	131	63.3	51	25	M10	40	18	M8
ALHP2.6-B0-X-36-T0-E2	36	200	230	250	2750	400	135	65.3	51	25	M10	40	18	M8
ALHP2.6-B0-X-38-T0-E2	38	200	230	250	2750	400	137	66.3	51	25	M10	40	18	M8
ALHP2.6-B0-X-40-T0-E2	40	170	190	210	2500	400	139	67.3	51	25	M10	40	18	M8
ALHP2.6-B0-X-44-T0-E2	44	170	190	210	2500	400	144	69.5	51	25	M10	40	18	M8

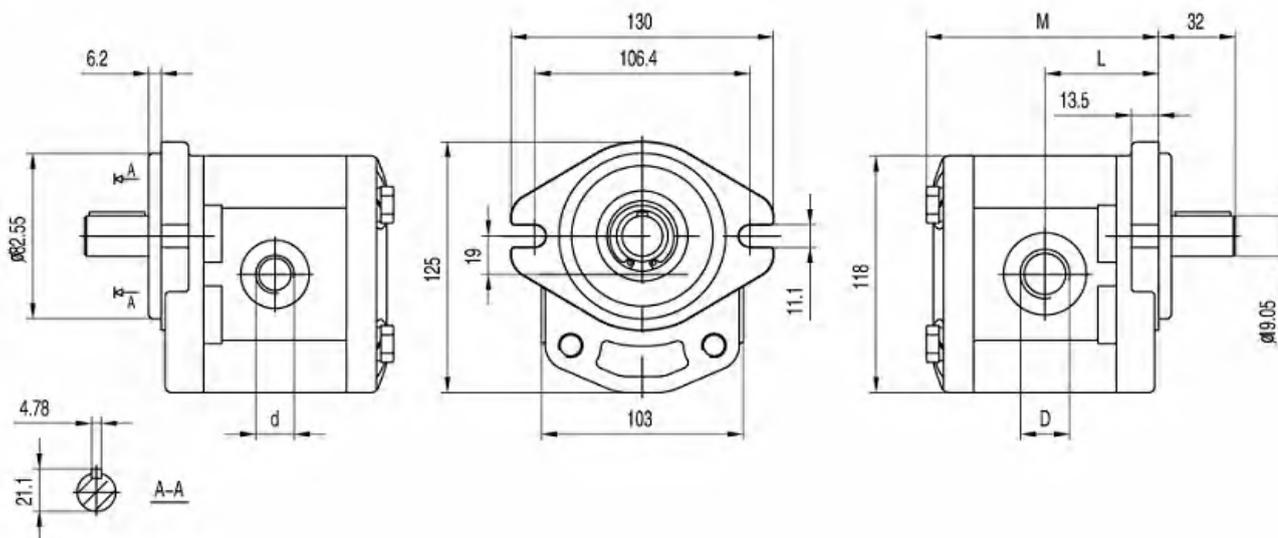


G1 threads depth 19. G3/4 threads depth 16. G1/2 threads depth 15. To mount the pump, n.4 M12 screws, with a torque wrench setting fixed at 130...135 Nm.

Резба G1 с дълбочина 19 мм. Резба G3/4 с дълбочина 16 мм. Резба G1/2 с дълбочина 15 мм. За монтаж, 4 броя M12 болта, затегнати на 130-135 Nm.

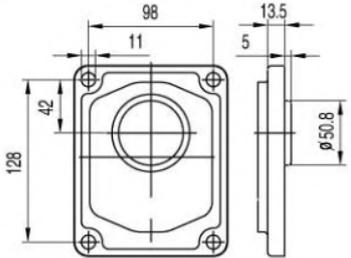
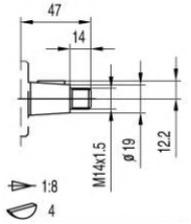
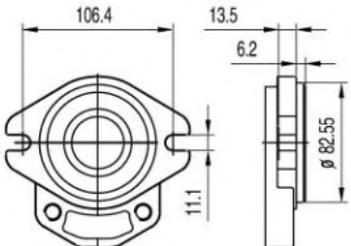
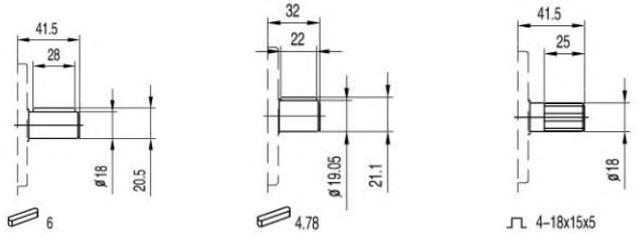
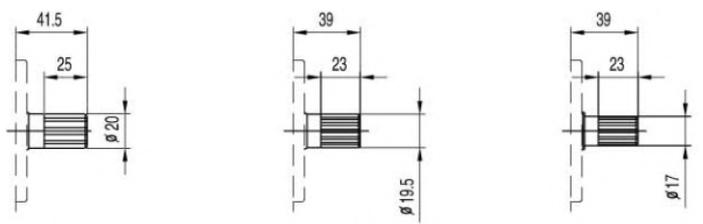
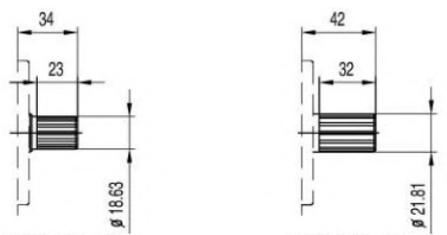
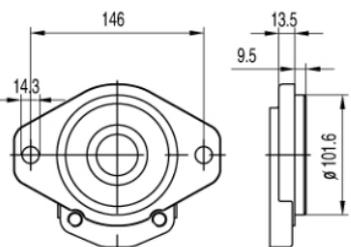
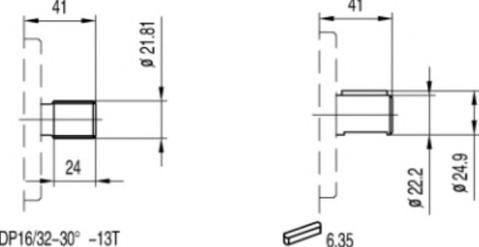
OUTLET

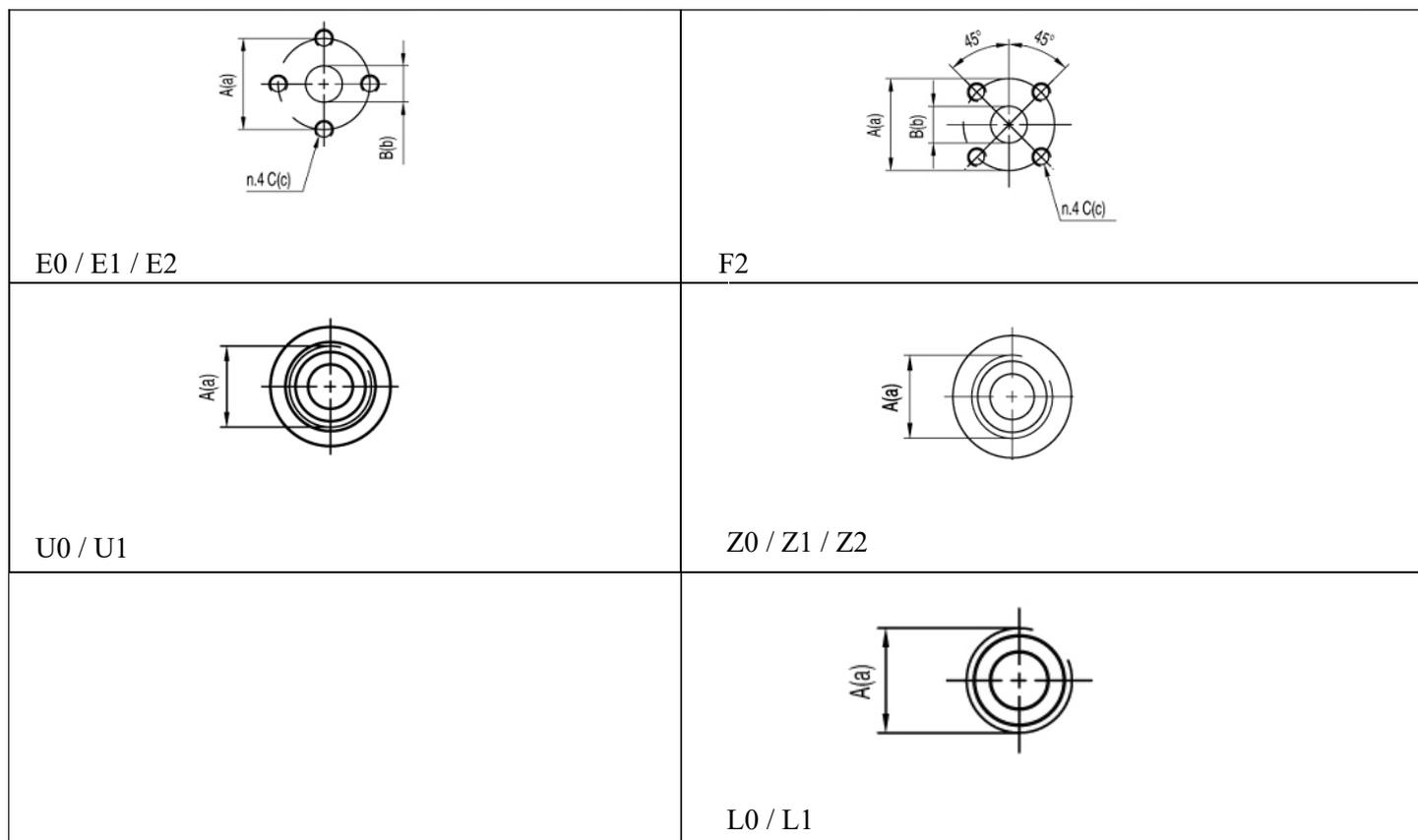
INLET



Technical information / Техническа информация

Type / Тип	Displacement / Обем (cm/rev) ³	Max. pressure / Макс. налягане			Max. speed / Макс. скорост (r/min)	Min. speed / Мин. скорост (r/min)	Dimensions / Размери			
		P1	P2	P3			M	L	D	d
		bar	bar	bar			mm	mm		
ALHP2.6-A1-X-6-C2-L0	6	250	280	300	4000	800	103	49.3	G3/4	G1/2
ALHP2.6-A1-X-8-C2-L0	8	250	280	300	4000	800	105	50.3	G3/4	G1/2
ALHP2.6-A1-X-10-C2-L0	10	250	280	300	4000	700	107	51.3	G3/4	G1/2
ALHP2.6-A1-X-12-C2-L0	12	250	280	300	3500	700	110	52.5	G3/4	G1/2
ALHP2.6-A1-X-14-C2-L0	14	250	280	300	3500	600	111	53.3	G3/4	G1/2
ALHP2.6-A1-X-16-C2-L0	16	250	280	300	3500	600	114	54.5	G3/4	G1/2
ALHP2.6-A1-X-19-C2-L0	19	250	280	300	3000	500	117	56.3	G3/4	G1/2
ALHP2.6-A1-X-22-C2-L0	22	250	280	300	3000	500	121	58	G3/4	G1/2
ALHP2.6-A1-X-25-C2-L1	25	250	280	300	3000	500	123	59.3	G1	G3/4
ALHP2.6-A1-X-28-C2-L1	28	250	280	300	3000	500	126	60.8	G1	G3/4
ALHP2.6-A1-X-30-C2-L1	30	230	250	260	3000	500	129	62	G1	G3/4
ALHP2.6-A1-X-32-C2-L1	32	230	250	260	3000	400	131	63.3	G1	G3/4
ALHP2.6-A1-X-36-C2-L1	36	200	230	250	2750	400	135	65.3	G1	G3/4
ALHP2.6-A1-X-38-C2-L1	38	200	230	250	2750	400	137	66.3	G1	G3/4
ALHP2.6-A1-X-40-C2-L1	40	170	190	210	2500	400	139	67.3	G1	G3/4
ALHP2.6-A1-X-44-C2-L1	44	170	190	210	2500	400	144	69.5	G1	G3/4

 <p>B0</p>	 <p>T0 Max. torque / 300 Nm Maks. moment</p>
 <p>A1</p>	 <p>C1 Max. torque / 180 Nm Maks. moment</p> <p>C2 190 Nm</p> <p>H1 200 Nm</p>
	 <p>H2 Max. torque / 240 Nm Maks. moment</p> <p>S0 220 Nm</p> <p>S1 200 Nm</p>
	 <p>S2 Max. torque / 210 Nm Maks. moment</p> <p>S3 300 Nm</p>
 <p>A2</p>	 <p>S3 Max. torque / 210 Nm Maks. moment</p> <p>C6 300 Nm</p>



Type / Тип		Inlet/Входящ				Outlet/Изходящ			
		A	B	C	D	a	b	c	d
ALHP2.6...6 ÷ ALHP2.6...8	E0	30	13	M6	-	30	13	M6	-
ALHP2.6...10 ÷ ALHP2.6...19	E1	40	20	M8	-	30	13	M6	-
ALHP2.6...22 ÷ ALHP2.6...44	E2	51	25	M10	-	40	18	M8	-
ALHP2.6...6 ÷ ALHP2.6...16	F2	55	20	M8	-	55	13	M8	-
ALHP2.6...19 ÷ ALHP2.6...44	F2	55	25	M8	-	55	20	M8	-
ALHP2.6...6 ÷ ALHP2.6...14	Z0	M22x1.5	-	-	-	M18x1.5	-	-	-
ALHP2.6...16 ÷ ALHP2.6...19	Z1	M27x2	-	-	-	M22x1.5	-	-	-
ALHP2.6...22 ÷ ALHP2.6...44	Z2	M33x2	-	-	-	M27x2	-	-	-
ALHP2.6...16 ÷ ALHP2.6...22	U0	11/16-12UNF	-	-	-	7/8-14UNF	-	-	-
ALHP2.6...25 ÷ ALHP2.6...44	U1	15/16-12UNF	-	-	-	11/16-12UNF	-	-	-
ALHP2.6...16 ÷ ALHP2.6...22	L0	G3/4	-	-	-	G1/2	-	-	-
ALHP2.6...25 ÷ ALHP2.6...44	L1	G1	-	-	-	G3/4	-	-	-

Order information / Как се поръчва

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ALHP3 - B0 - X - 22 - C4 - RF0 - без

1	2	3	4	5	6	7	8	
Series / Серия	Front cover / Фланец	Rotation / Посока на въртене	Size / Обем	Shafts / Валове	Port position / Позиция на портове	Ports / Портове	Seals / Уплътнения	
ALHP3	B0	X Right / Надясно	20	C0	без	Side inlet and side outlet / Страничен вход и изход	E0/E1/E2/E3	без <i>Range between -10°C and +80°C, inlet pressure up to max. 3 bar absolute / от -10°C до +80°C, макс. налягане на входа 3 bar</i>
			22	C2			F0/F1/F2/F3/F7	
			26	C3			M4/M5	
			33	C4			L0/L1/L2/L3	
			39	C4			R0/R1/R2/R3	
ALHM3	A1	Y Left/ Наляво	46	H0	R	Back inlet and back outlet / Заден вход и изход	U0/U1/U2	
			50	H1				
			52	S0				
			55	S1				
			63	S1				
	A2	Z Two-way / Двупосоечно	71	T0				

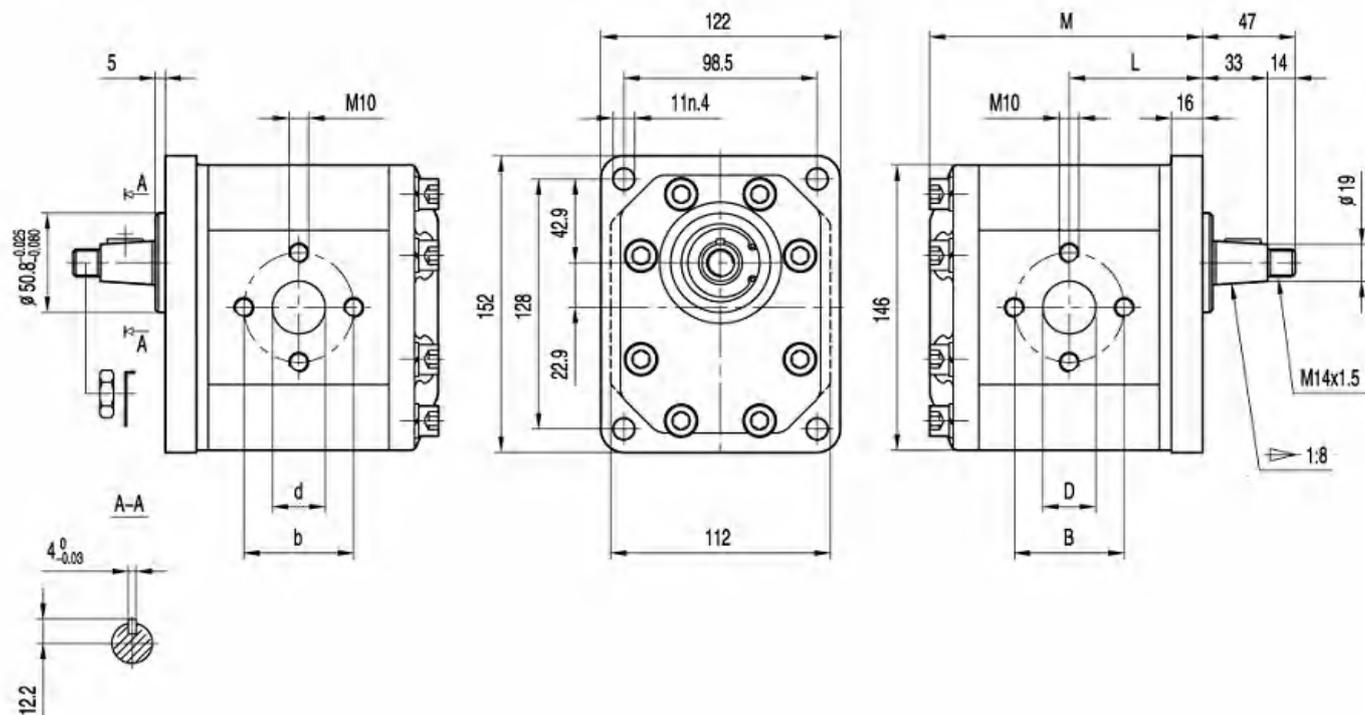


M10 thread depth 18. To mount the pump, n.8 M10 screws, with a torque wrench setting fixed at 47±3 Nm. Shaft M14x1.5 nut, with a torque wrench setting fixed at 80 Nm.

Резба M10 с дълбочина 18 мм. За монтаж, 8 броя M10 болта, затегнати на 47±3 Nm. Гайка на вала - M14x1,5, затегната на 80 Nm.

OUTLET

INLET



Technical information / Техническа информация

Type / Тип	Displacement / Обем (cm ³ /rev)	Max. pressure / Макс. налягане			Max. speed / Макс. скорост (r/min)	Min. speed / Мин. скорост (r/min)	Dimensions / Размери			
		P1	P2	P3			M	L	B	b
		bar	bar	bar			mm	mm	mm	mm
ALHP3-B1-X-20-T0-E4	20	250	265	280	3500	600	128	63	19	19
ALHP3-B1-X-22-T0-E4	22	250	265	280	3500	600	130	64	19	19
ALHP3-B1-X-26-T0-E4	26	250	265	280	3000	600	133	65	19	19
ALHP3-B1-X-33-T0-E5	33	230	250	270	3000	500	139	68	27	19
ALHP3-B1-X-39-T0-E5	39	230	250	270	3000	500	146	72	27	19
ALHP3-B1-X-46-T0-E5	46	230	250	270	3000	500	152	75	27	19
ALHP3-B1-X-50-T0-E5	50	220	240	260	3000	500	156	77	27	19
ALHP3-B1-X-52-T0-E5	52	220	240	260	3000	500	158	78	27	19
ALHP3-B1-X-55-T0-E5	55	200	230	250	2800	400	160	79	27	19
ALHP3-B1-X-63-T0-E5	63	200	230	250	2800	400	168	83	27	19
ALHP3-B1-X-71-T0-E3	71	180	200	220	2500	400	175	86	33	27

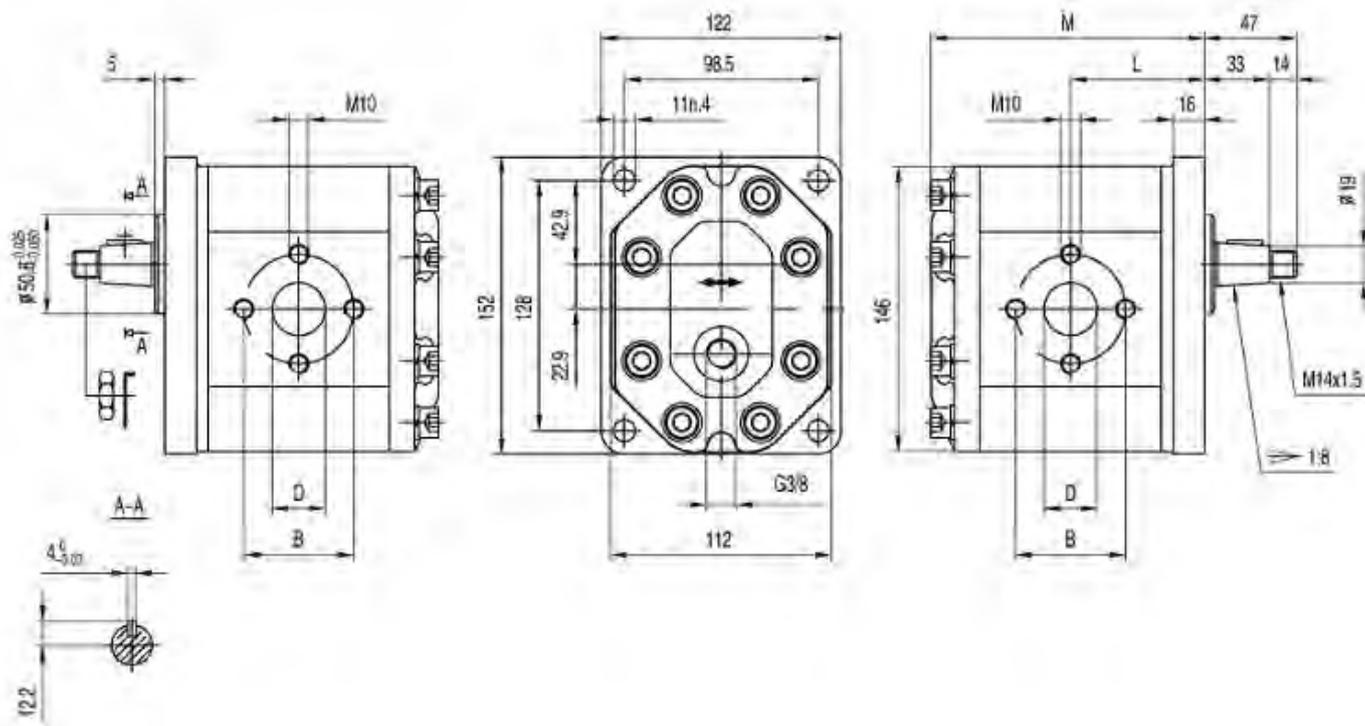
M10 thread depth 18. To mount the pump, n.8 M10 screws, with a torque wrench setting fixed at 47±3 Nm. Shaft M14x1.5 nut, with a torque wrench setting fixed at 80 Nm.

M10 Резба с дълбочина 18 мм. За монтаж 8 броя M10 болта, затегнати на 47±3 Nm. Гайка на вала M14x1,5, затегнатата на 80 Nm.



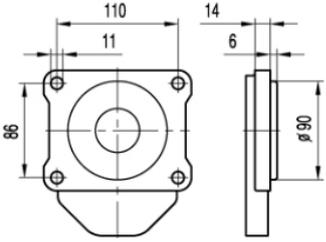
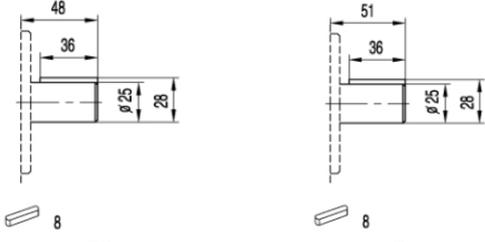
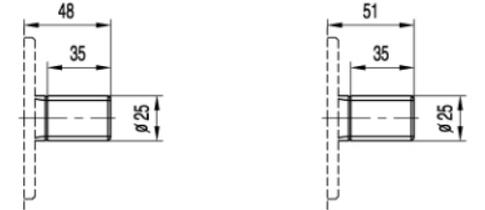
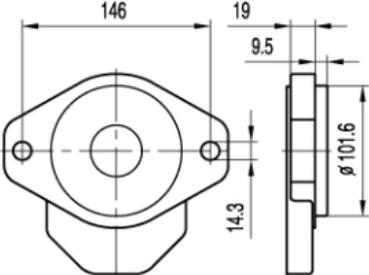
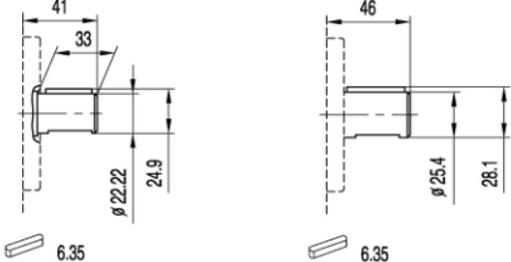
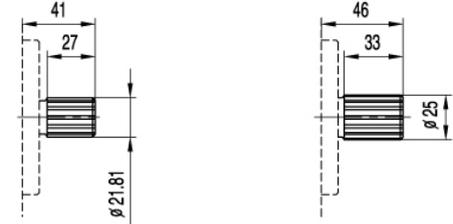
OUTLET

INLET

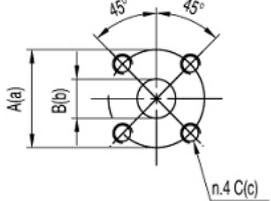
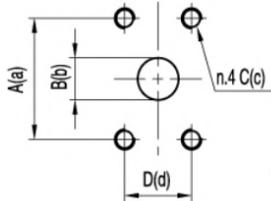
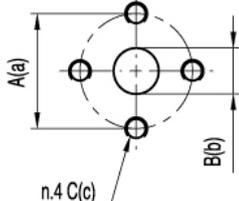
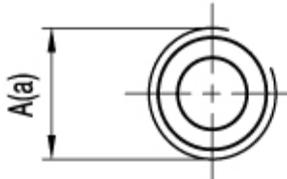
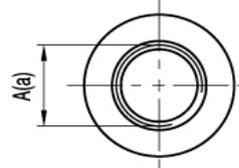


Technical information / Техническа информация

Type / Тип	Displacement / Обем (cm ³ /rev)	Max. pressure / Макс. налягане			Max. speed / Макс. скорост (r/min)	Min. speed / Мин. скорост (r/min)	Dimensions / Размери		
		P ₁	P ₂	P ₃			M	L	B
		bar	bar	bar			mm	mm	mm
ALHM3-B1-Z-20-T0-E4-Q1	20	250	265	280	3500	600	128	63	19
ALHM3-B1-Z-22-T0-E4-Q1	22	250	265	280	3500	600	130	64	19
ALHM3-B1-Z-26-T0-E4-Q1	26	250	265	280	3000	600	133	65	19
ALHM3-B1-Z-33-T0-E1-Q1	33	230	250	270	3000	500	139	68	27
ALHM3-B1-Z-39-T0-E1-Q1	39	230	250	270	3000	500	146	72	27
ALHM3-B1-Z-46-T0-E1-Q1	46	230	250	270	3000	500	152	75	27
ALHM3-B1-Z-50-T0-E1-Q1	50	220	240	260	3000	500	156	77	27
ALHM3-B1-Z-52-T0-E1-Q1	52	220	240	260	3000	500	158	78	27
ALHM3-B1-Z-55-T0-E1-Q1	55	200	230	250	2800	400	160	79	27
ALHM3-B1-Z-63-T0-E1-Q1	63	200	230	250	2800	400	168	83	27
ALHM3-B1-Z-71-T0-E1-Q1	71	180	200	220	2500	400	175	86	27

 <p style="text-align: center;">B0</p>	 <p style="text-align: center;">C0 Max. torque / 450 Nm Maks. moment</p> <p style="text-align: center;">C1 450 Nm</p>
	 <p style="text-align: center;">H0 Max. torque / 500 Nm Maks. moment</p> <p style="text-align: center;">H1 500 Nm</p>
 <p style="text-align: center;">A0</p> <p style="text-align: center;"><i>SAE "B" with 2 screws / SAE "B" за 2 болта</i></p>	 <p style="text-align: center;">C2 Max. torque / 400 Nm Maks. moment</p> <p style="text-align: center;">C3 450 Nm</p>
	 <p style="text-align: center;">S0 Max. torque / 500 Nm Maks. moment</p> <p style="text-align: center;">S1 600 Nm</p>

<p>B1 <i>европейан / европейски</i></p>	<p>T0 Max. torque / 300 Nm Maks. moment</p> <p>C4 350 Nm</p>
<p>B2 <i>герман / Немски</i></p>	<p>T1 Max. torque / 350 Nm Maks. moment</p>
<p>A1</p>	<p>C1 Max. torque / 350 Nm Maks. moment</p> <p>H2 350 Nm</p>

 <p>F0 / F1 / F2 / F3 / F7</p>	 <p>M4 / M5</p>
 <p>E1 / E3 / E4 / E5</p>	 <p>L0 / L1 / L2 / L3</p>
	 <p>U0 / U1 / U2</p>

Type / Тип		Inlet / Входящ				Outlet / Изходящ			
		A	B	C	D	a	b	c	d
ALHP3...20 ÷ ALHP3...26	F0	50	20	M8	-	50	20	M8	-
ALHP3...33 ÷ ALHP3...46	F1	65	25	M8	-	65	20	M8	-
ALHP3...50 ÷ ALHP3...71	F2	76	33	M10	-	76	25	M10	-
ALHP3...50 ÷ ALHP3...63	F3	76	33	M8	-	76	25	M8	-
ALHP3...20 ÷ ALHP3...71	F7	55	27	M8	-	55	19	M8	-
ALHP3...20 ÷ ALHP3...52	M4	52.4	27	3/8-16UNC	26.2	47.6	19	3/8-16UNC	22.2
ALHP3...55 ÷ ALHP3...71	M5	58.7	33	7/16-14UNC	30.2	52.4	27	3/8-16UNC	26.2
ALHP3...33 ÷ ALHP3...71	E1	51	27	M10	-	51	27	M10	-
ALHP3...20 ÷ ALHP3...26	E4	40	19	M8	-	40	19	M8	-
ALHP3...33 ÷ ALHP3...63	E5	51	27	M10	-	40	19	M8	-
ALHP3...71	E3	62	33	M10	-	51	27	M10	-
ALHP3...20 ÷ ALHP3...26	L0	G3/4	-	-	-	G3/4	-	-	-
ALHP3...33 ÷ ALHP3...63	L1	G 1	-	-	-	G3/4	-	-	-
ALHP3...71	L2	G1 1/4	-	-	-	G 1	-	-	-
ALHP3...39 ÷ ALHP3...52	U0	1 5/16-12UNF	-	-	-	1 1/16-12UNF	-	-	-
ALHP3...20 ÷ ALHP3...33	U1	1 5/8-12UNF	-	-	-	1 1/16-12UNF	-	-	-
ALHP3...55 ÷ ALHP3...71	U2	1 7/8-12UNF	-	-	-	1 5/16-12UNF	-	-	-

Order information / Как се поръчва

1 2 3 4 5 6 7

ALHP2/2 - B0 - X - 14/14 - T0 - E1/E1 - E

1	2	3	4	5	6	7
Series / Серия	Front cover / Фланец	Rotation / Посока на въртене	Size / Обем	Shafts / Валове	Ports / Портове	Ports configuration / Конфигурация на портовете
ALHP1/1	A0		1,4	T0		E
			2,1			
			2,8			
			3,5			
			4,1			
			5,2			
			6,2			
			7,6			
			9,3			
			11			
ALHP2/2/2	B0	X	13,8	Right / Надясно	F0/F1/F2/F3/F7	F
			3			
			4			
			6			
			8			
			10			
			12			
			14			
			16			
			18			
ALHP2/2	B1	Y	20	Left / Наляво	M2/M3/M4/M5	G
			22			
			25			
			28			
			30			
			30			
			30			
			30			
			30			
			30			
ALHP2/1	Q0	Z	20	Two-way / Двупосочно	L0/L1/L2/L3/L4	J
			22			
			26			
			33			
			39			
			46			
			50			
			52			
			55			
			63			
ALHP3/3	Q1		20	H1	R0/R1/R2/R3	K
			22			
			26			
			33			
			39			
			46			
			50			
			52			
			55			
			63			
ALHP3/2	Q2		20	S0	U0/U1/U2	K
			22			
			26			
			33			
			39			
			46			
			50			
			52			
			55			
			63			
ALHP3/1			20	S1		K
			22			
			26			
			33			
ALHP3/1			39	S3		K
			46			
			50			
			52			
ALHP3/1			55	T0		K
			63			
			71			

E - two inlet and two outlet (separated type)

F - two inlet and two outlet (common type)

G - one inlet and two outlet

J - one inlet and three outlet

K - two inlet and three outlet

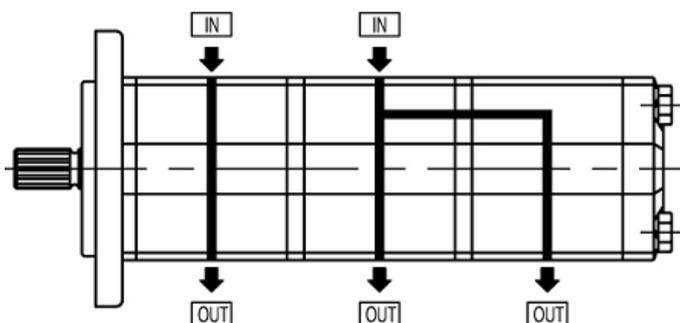
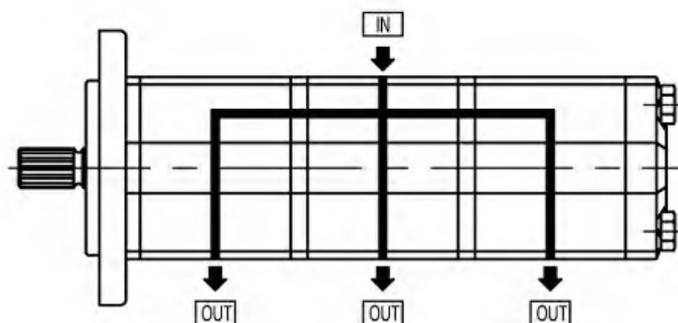
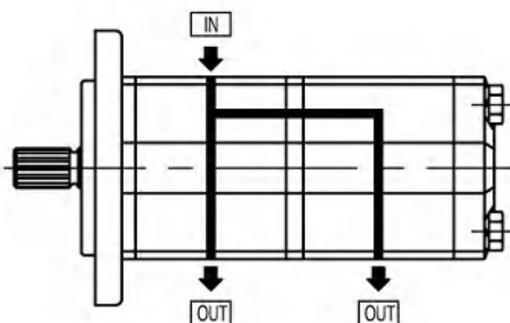
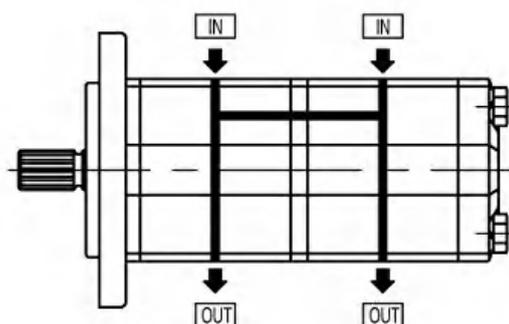
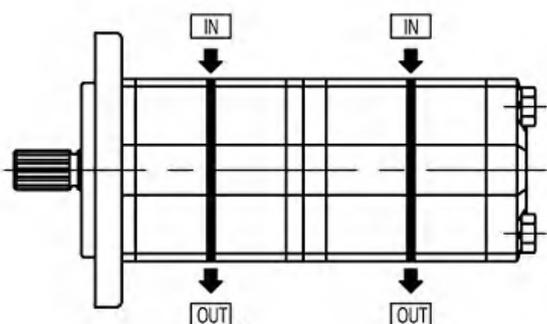
Е - Два входа и два изхода(отделени)

Ф - Два входа и два изхода(съединени)

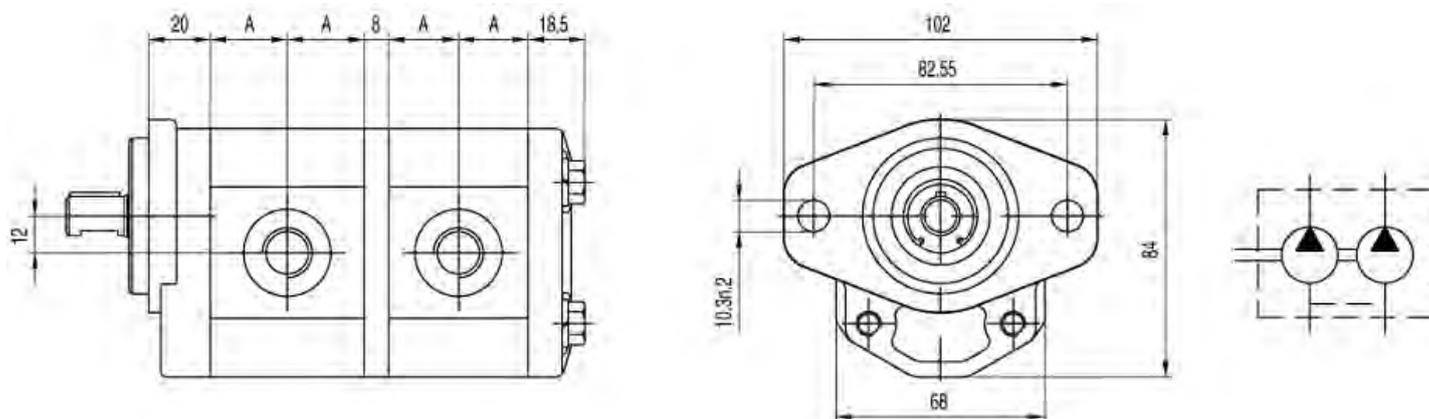
Г - Един вход и два изхода

Ж - Един вход и три изхода

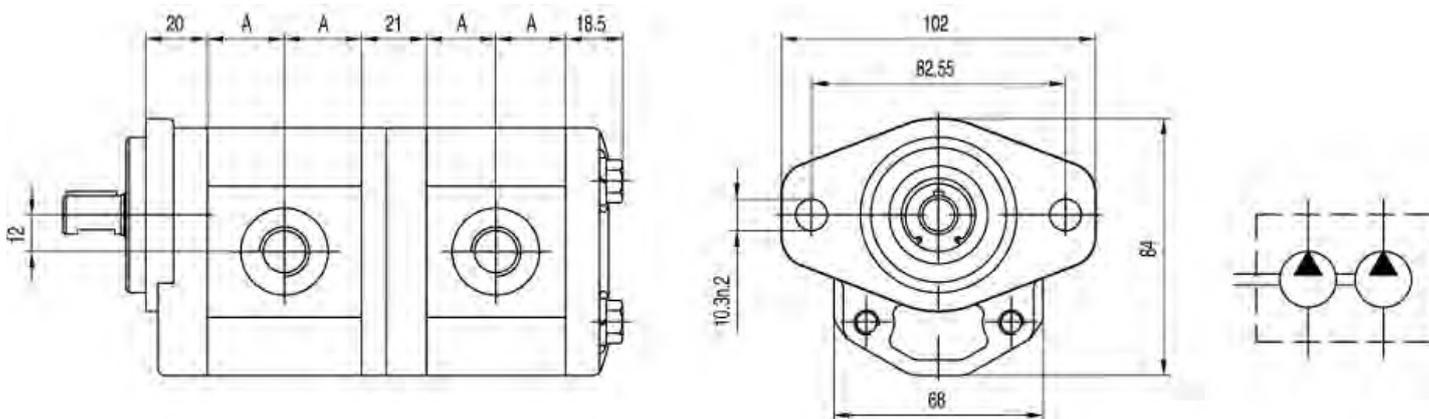
К - Два входа и три изхода



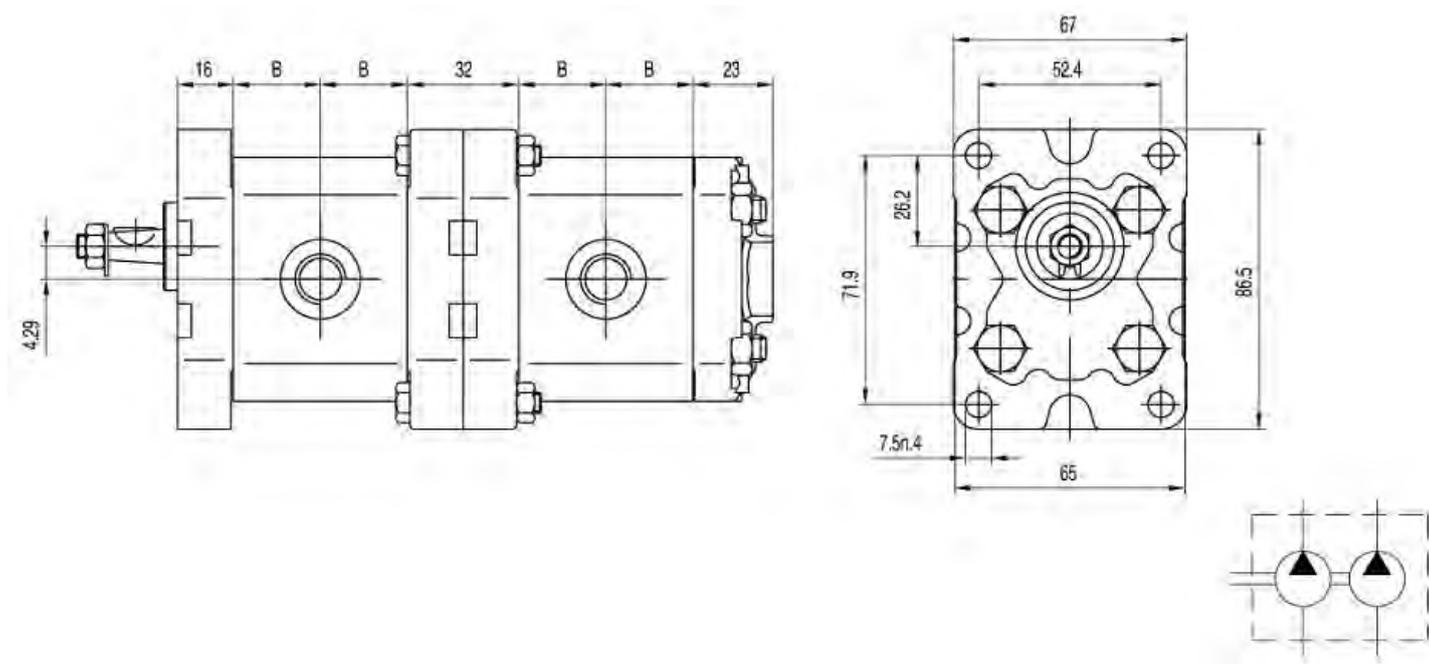
ALHP1/1-F



ALHP1/1-E



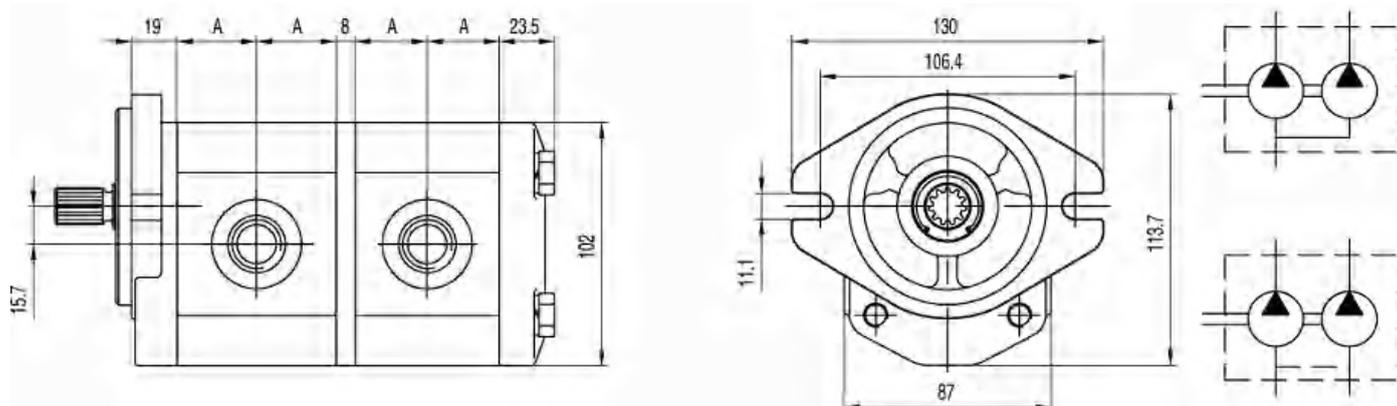
ALKP1/1-E



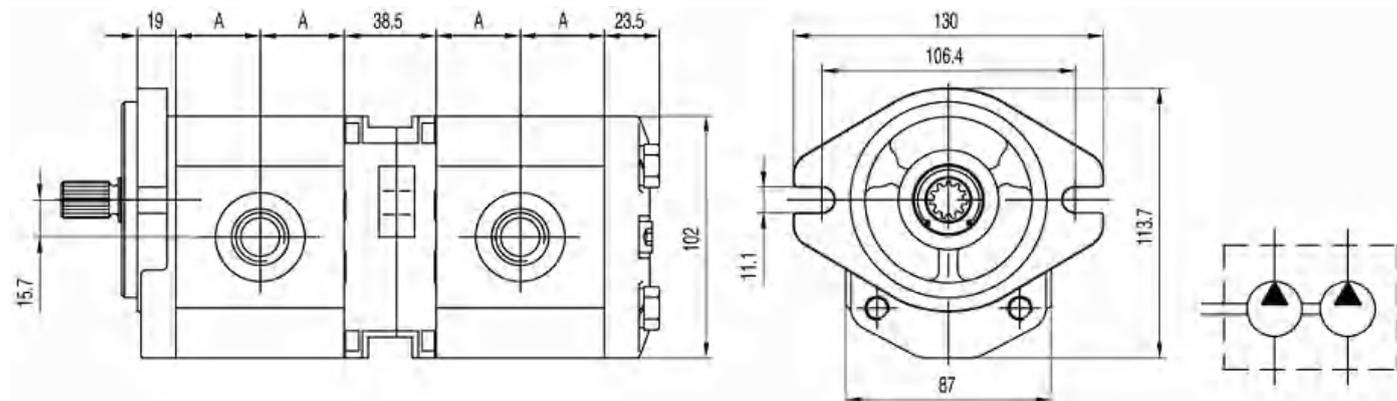
ALHP1

Displacement / Обем	Max. pressure / Макс. налягане			Max. speed / Макс. скорост	Min. speed / Мин. скорост	Dimensions / Размери
	P1	P2	P3			
(cm ³ /rev)	bar	bar	bar	(r/min)	(r/min)	mm
1,4	250	270	290	6000	800	22
2,1	250	270	290	6000	800	23
2,8	250	270	290	5000	800	24
3,5	250	270	290	5000	800	25
4,1	250	270	290	4000	800	26
5,2	230	245	260	4000	800	27.5
6,2	230	245	260	3500	800	29
7,6	200	215	230	3000	600	31
9,3	180	195	210	2500	600	33.5
11,0	170	185	200	2500	600	36
13,8	150	165	180	2000	600	40

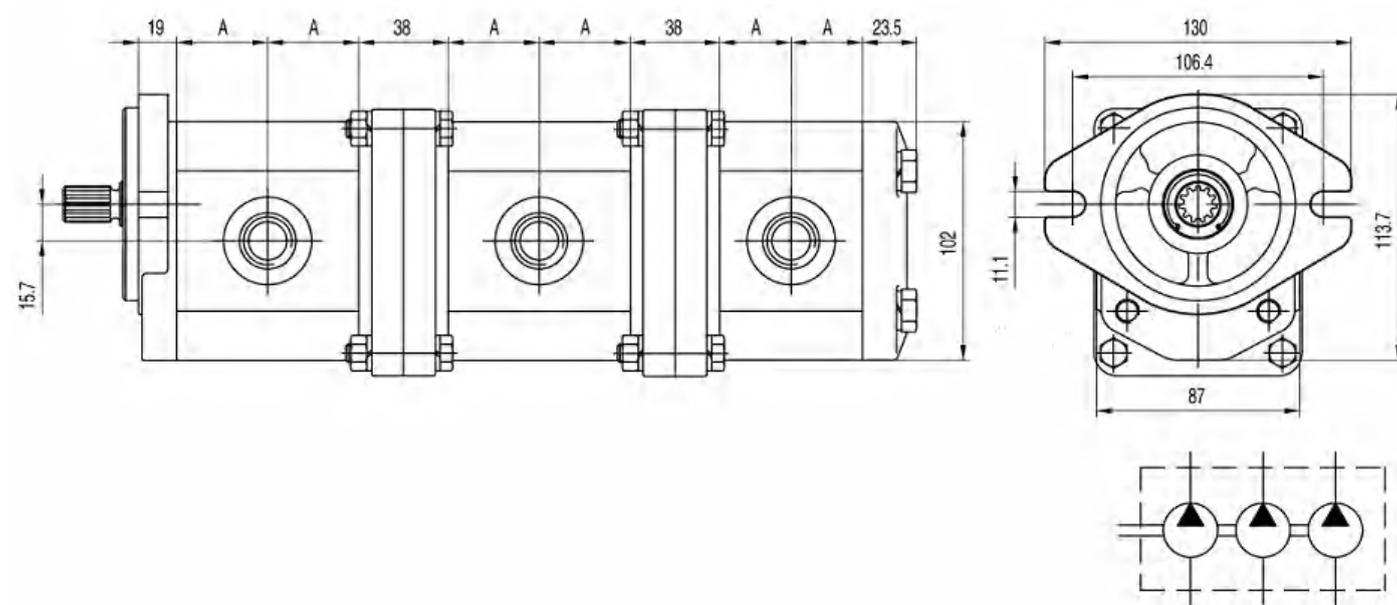
ALHP2/2-Fa,ALHP2/2-G



ALHP2/2-E



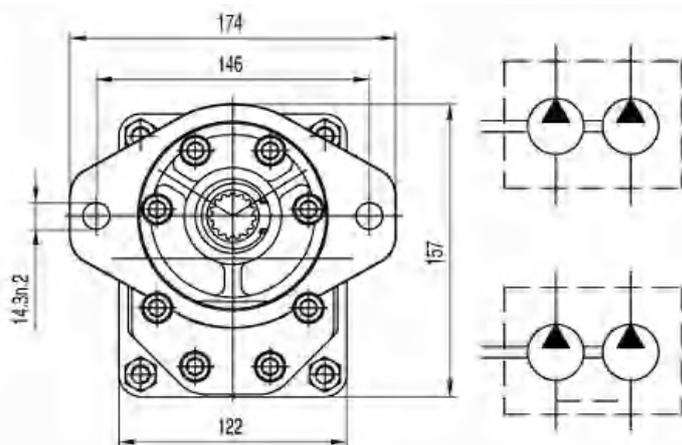
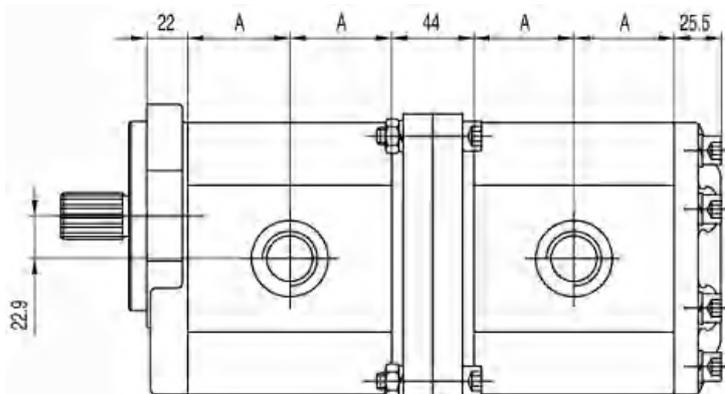
ALHP2/2/2-Ea,ALHP2/2/2-F



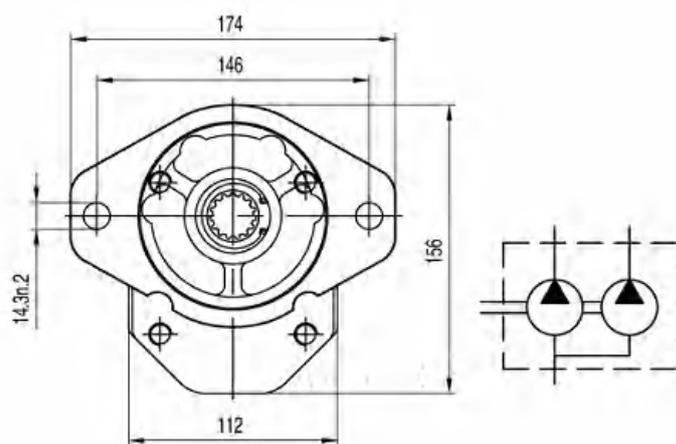
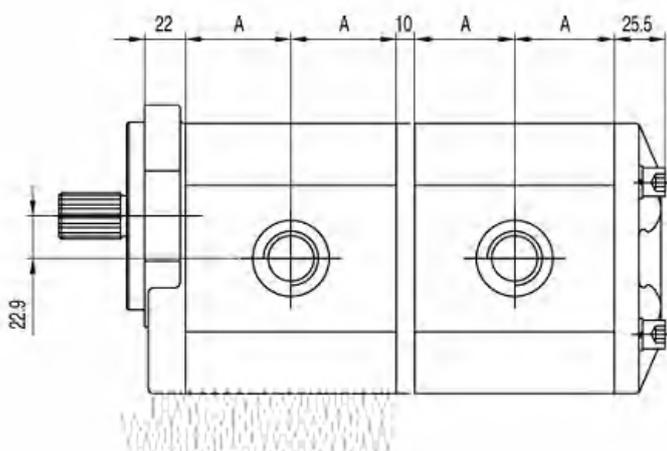
ALHP2

Displacement / Обем	Max. pressure / Макс. налягане			Max. speed / Макс. скорост	Min. speed / Мин. скорост	Dimensions / Размери
	P1	P2	P3			A
(cm ³ /rev)	bar	bar	bar	(r/min)	(r/min)	mm
3	270	285	300	4000	800	24.5
4	270	285	300	4000	600	25.3
6	270	285	300	4000	600	27
8	270	285	300	3500	500	28.6
10	270	285	300	3000	500	30.3
12	270	285	300	3000	500	32
14	250	265	280	4000	500	33.6
16	250	265	280	4000	500	35.3
18	250	265	280	3600	400	37
20	220	235	250	3200	400	38.6
22	220	235	250	3000	400	40.3
25	200	215	230	3000	400	42.8
28	180	190	200	2500	400	45.3
30	160	170	180	2500	400	47

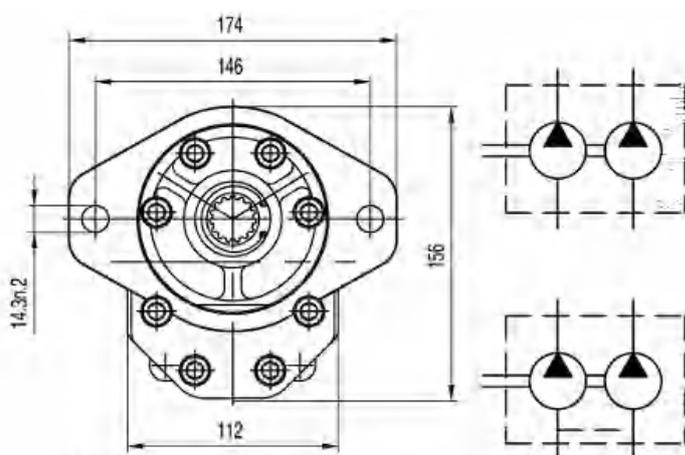
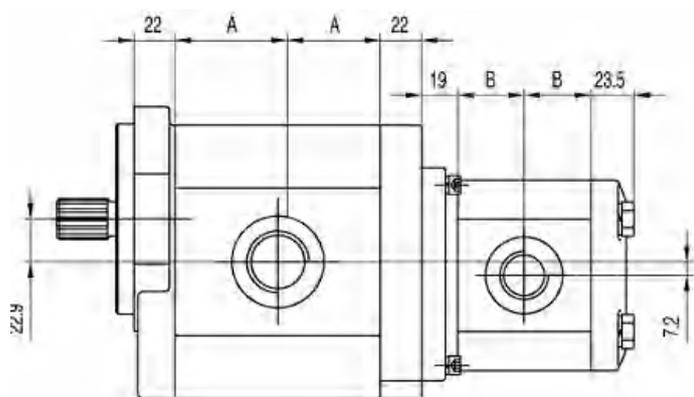
ALHP3/3-E, ALHP3/3-F



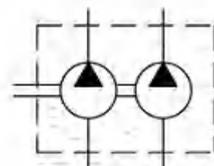
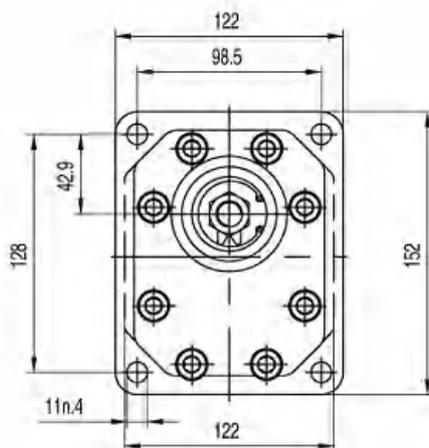
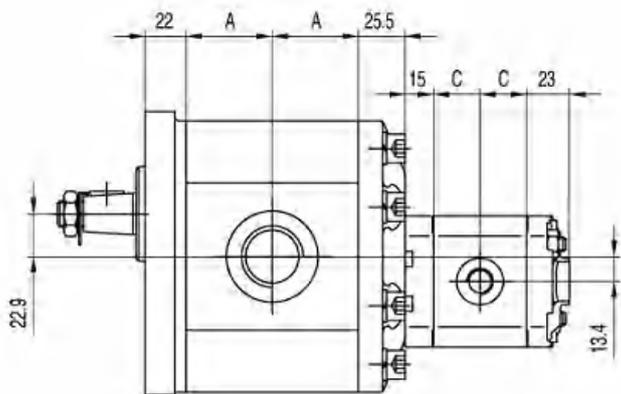
ALHP3/3-G



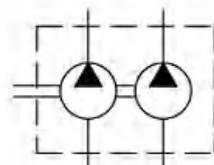
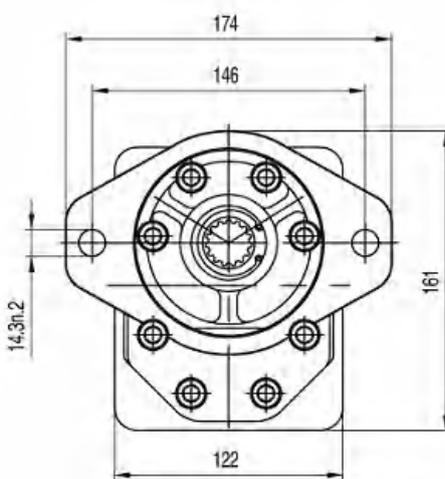
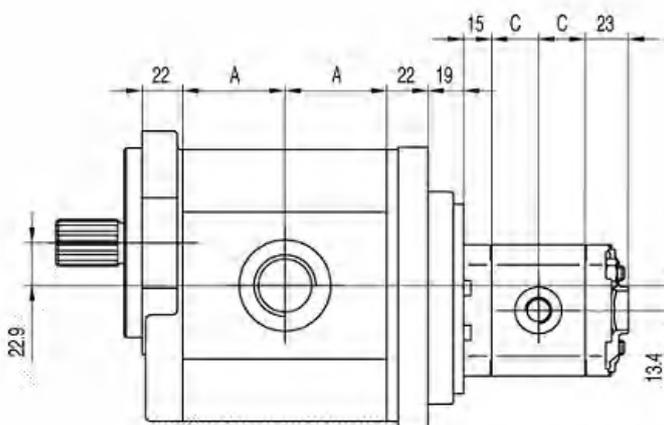
ALHP3/2-E, ALHP3/2-F



ALHP3/1-E



ALHP3/1-E

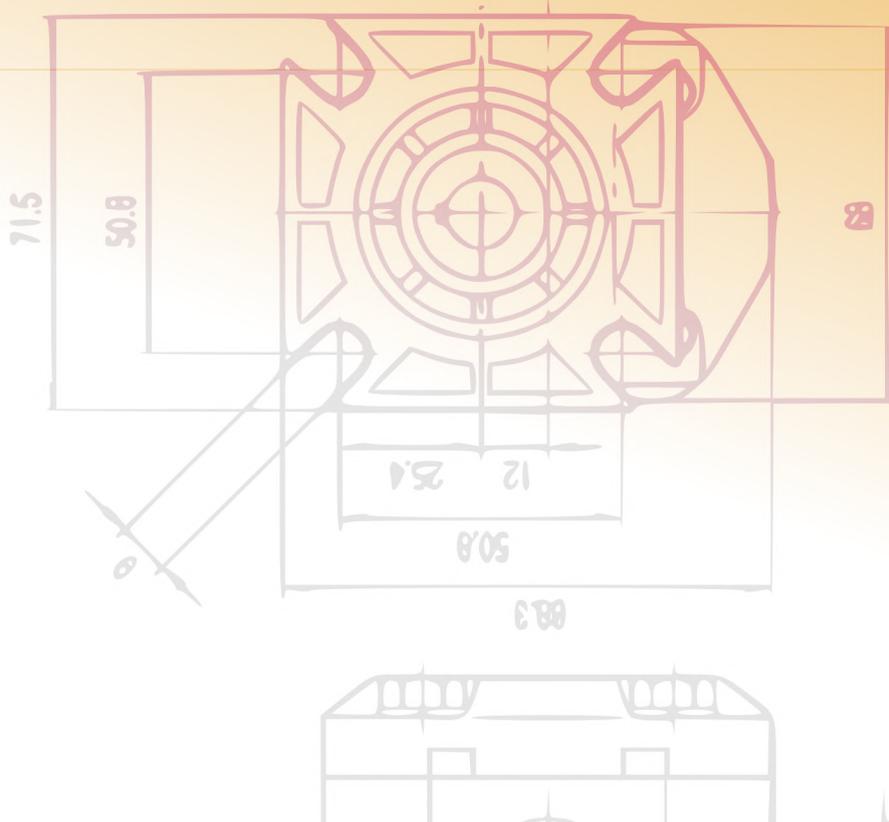
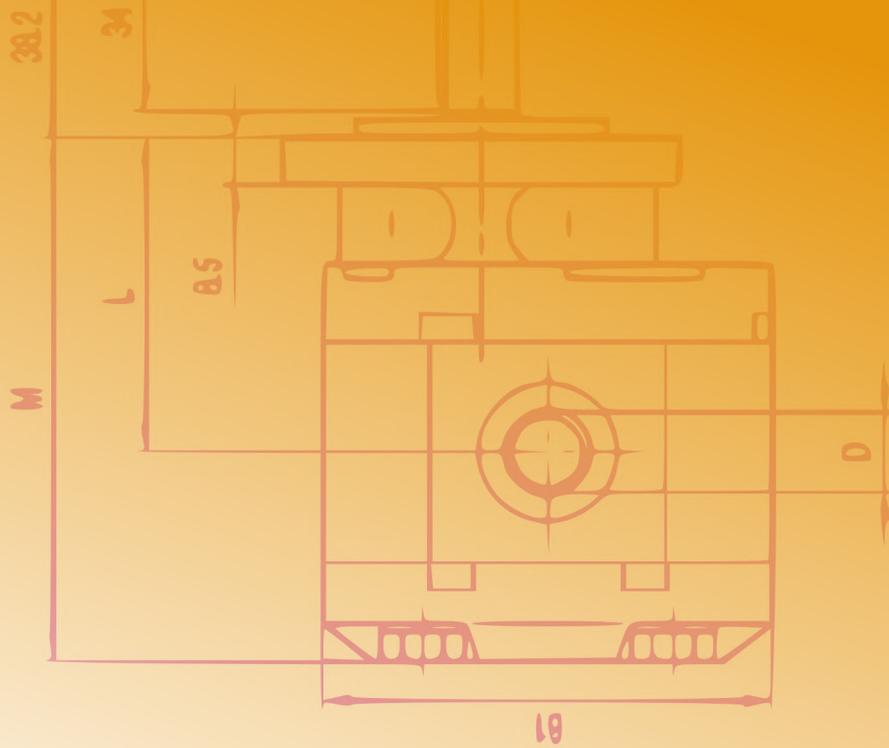


ALHP3

Displacement / Обем	Max. pressure / Макс. налягане			Max. speed / Макс. скорост	Min. speed / Мин. скорост	Dimensions / Размери
	P1	P2	P3			
(cm ³ /rev)	bar	bar	bar	(r/min)	(r/min)	mm
20	250	265	280	3500	600	40.5
22	250	265	280	3500	600	41.5
26	250	265	280	3000	600	43
33	230	250	270	3000	500	46
39	230	250	270	3000	500	49.5
46	230	250	270	3000	500	52.5
50	220	240	260	3000	500	54.5
52	220	240	260	3000	500	55.5
55	200	230	250	2800	400	56.5
63	200	230	250	2800	400	60.5
71	180	200	220	2500	400	64

ALHP2

Displacement / Обем	Max. pressure / Макс. налягане			Max. speed / Макс. скорост	Min. speed / Мин. скорост	Dimensions / Размери
	P1	P2	P3			
(cm ³ /rev)	bar	bar	bar	(r/min)	(r/min)	mm
3	270	285	300	4000	800	24.5
4	270	285	300	4000	600	25.3
6	270	285	300	4000	600	27
8	270	285	300	3500	500	28.6
10	270	285	300	3000	500	30.3
12	270	285	300	3000	500	32
14	250	265	280	4000	500	33.6
16	250	265	280	4000	500	35.3
18	250	265	280	3600	400	37
20	220	235	250	3200	400	38.6
22	220	235	250	3000	400	40.3
25	200	215	230	3000	400	42.8
28	180	190	200	2500	400	45.3
30	160	170	180	2500	400	47



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