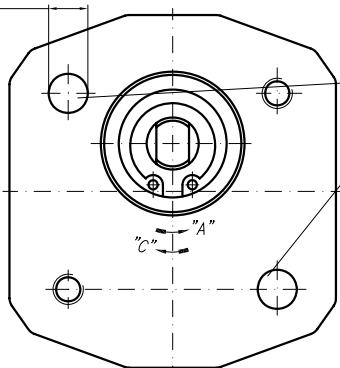


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2xØ5.5 Gr. 00



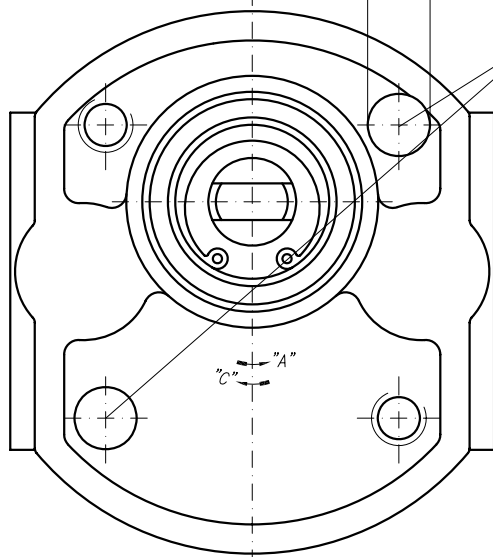
To mount the pump use two screws
M5xL/10.9 (8.8 black)
Torque 5^{+1} Nm

For Pumps at types:

X033	X034	X044	X047	X048W
X051	X052	X063	X065	

And etc.

Gr. 10 2xØ8,5



To mount the pump use two screws
M8xL/10.9 (8.8 black)
Torque 25^{+5} Nm

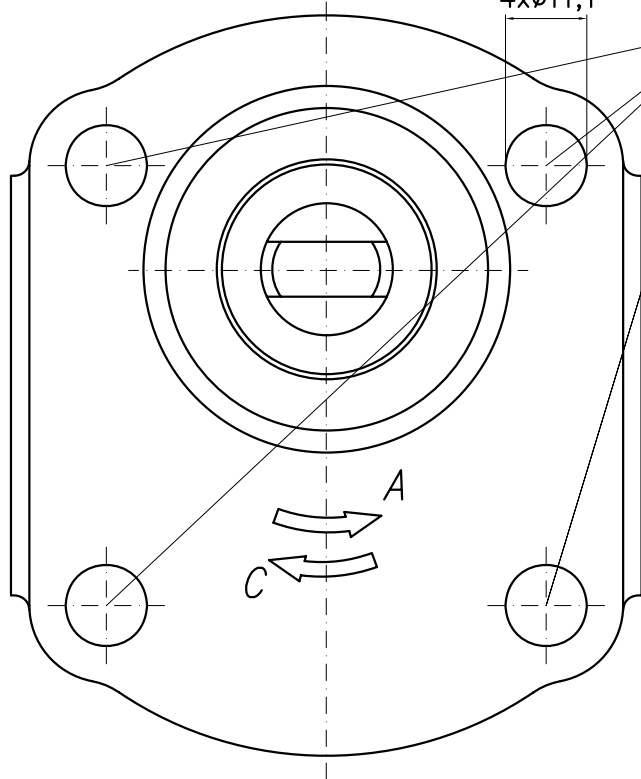
For Pumps at types:

X001	X027	X054	X131	X135
X142	X175	X179	X182	X230
X231	X238	X244	X254	X255
X278	X302	X303	X330	X340
X343	X348	X375	X394	X400
X417	X442	X445	X465	X475
X479	X485	X488	X489	X531
X551	X552	X571	X574	X575
X579	X594	X649	X682	X686

And etc.

Gr. 20

4xØ11,1



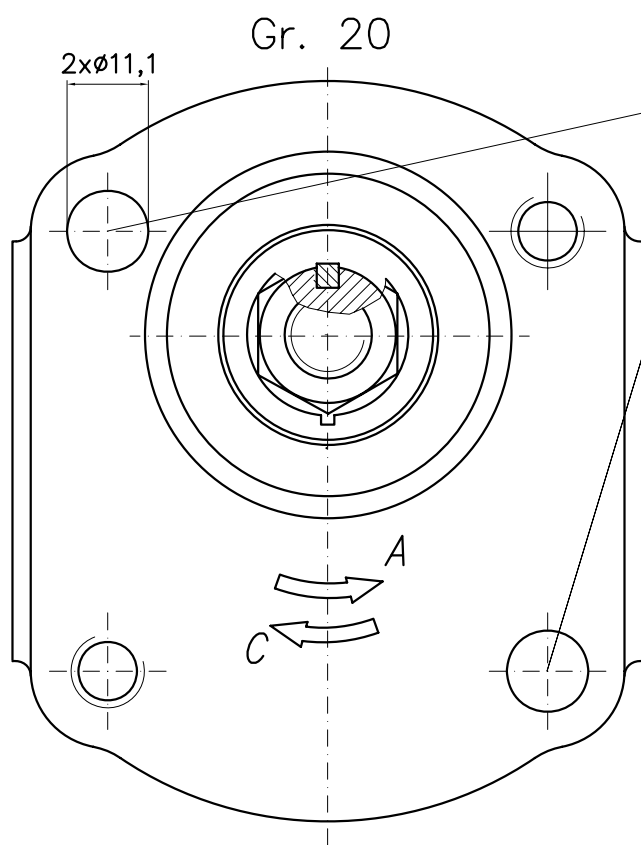
To mount the pump use four screws
M10xL/10.9
Torque 45^{+5} Nm

For Pumps at types:

X066	X072	X077	X097	X110
X156	X161	X173	X178	X185
X305	X381	X451	X495	X536
X538	X597	X602	X622	X665

And etc.

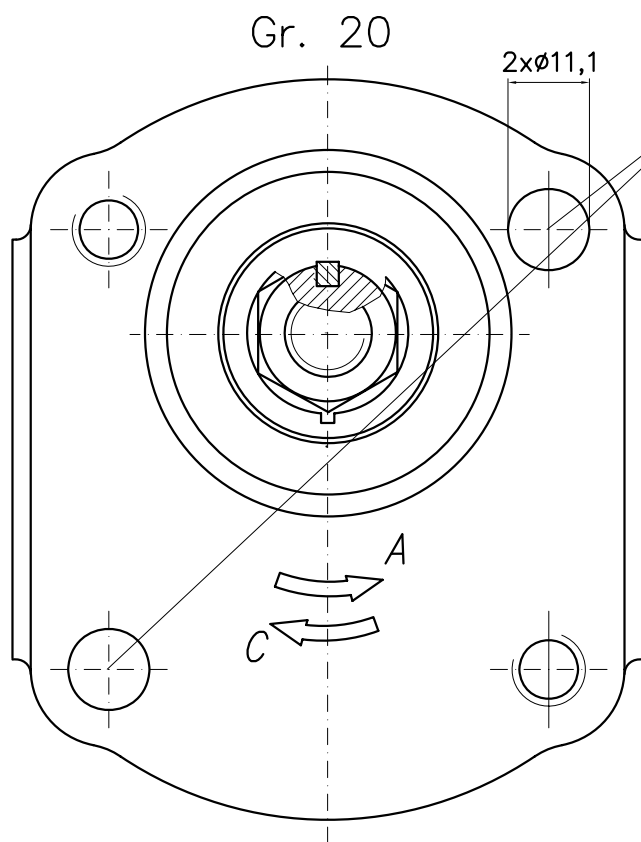
To mount the pump use two screws
M10xL/10.9
Torque 45⁺⁵Nm



For Pumps at types:				
X007	X074	X083	X087	X091
X095	X096	X127	X128	X132
X147	X153	X170	X178	X187
X205	X295	X449SBA	X540WMS	X567
X573	X847	X857	X867	X877

And etc.

To mount the pump use two screws
M10xL/10.9
Torque 45⁺⁵Nm



For Pumps at types:				
X008	X296	X368	X402	X403
X496	X528	X583	X586	X588
X652-12SBAW		X653-A1A40W		X776
X803	X843	X848	X868	X878

And etc.

General description

The gear pumps are designed for transforming the mechanical energy as energy of the working liquid (pressure and flow rate). They are simplified in construction and they have a relatively low cost. All these benefits ensure their wide application in the hydraulic systems.

Drive arrangements

The pump drive may be direct or indirect (by gear, chains, or belt transmissions). Both drives should not impose axial or radial forces on the pump shaft. Oldham coupling serrated drive adapters are used with direct drive. For indirect drive refer to the manufacturer.

The gear pumps are designed to work at the conditions mentioned below:

- Working liquid: hydraulic oils with viscosity 16 ... 200 mm²/s;
- Degree of filtration: 15 ... 25 ì m;
- Ambient temperature range: - 22 ... 55 °C;
- Fluid temperature range: - 25 ... 80 °C;
- Inlet pressure, absolute: 0.8 ... 2.2 bar;
- Fluid velocity (suction line) 0,5 ... 1 m/s
- Outlet pressure up to 250 bar.

The gear pumps made by “Caproni” are produced in 5 different groups: 00, 10, 20 and 20H, 30 and 40. The displacements of the pumps are in the range from 0.25 to 60 cm³.

Group 00	q = 0.25 ... 2 cm ³ ;
Group 10	q = 1 ... 9.8 cm ³ ;
Group 20	q = 4.5 ... 25 cm ³ ;
Group 20H	q = 15 ... 36 cm ³ ;
Group 30	q = 20 ... 60 cm ³ ;
Group 40	q = 46 ... 60 cm ³ .

There are different variants of flanges, shafts and ports for each pump group (standard; Germany; USA ...).

We offer the next variants too:

- tandem pumps;
- pumps with build-in valves;
- reversible pumps;
- reversible gear motors.

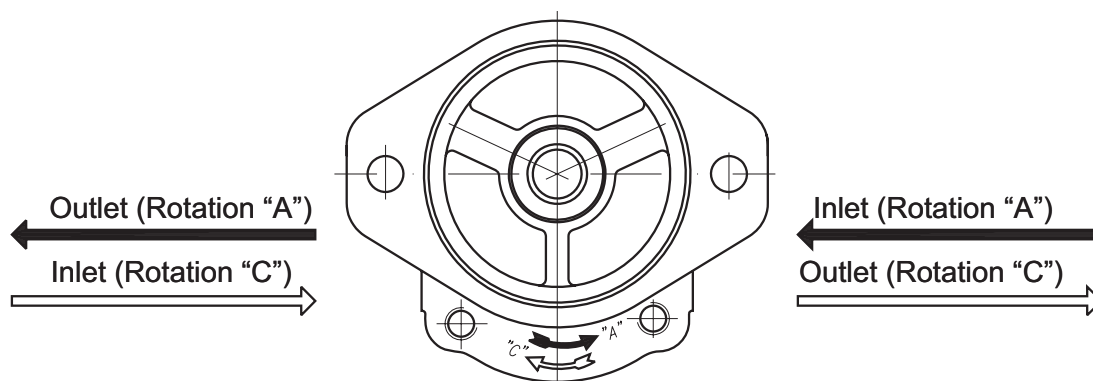
Used symbols:

n - speed of rotation	[min ⁻¹];
p - pressure	[bar];
q - displacement	[cm ³];
η - total efficiency $\eta = \eta_q \cdot \eta_{hm}$	[-];
η_{hm} - hydromechanical efficiency	[-];
η_q - volumetric efficiency	[-].

Commonly used formulas:

Flow:	$Q = \frac{q \cdot n \cdot \eta}{1000}$	[l/min]
Torque:	$M \cong \frac{q \cdot p}{20 \cdot \pi}$	[N.m]
Drive power:	$P = \frac{Q \cdot p}{600}$	[kW]

A relationship between the direction of rotation and the place of the inlet and outlet ports of the pumps



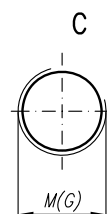
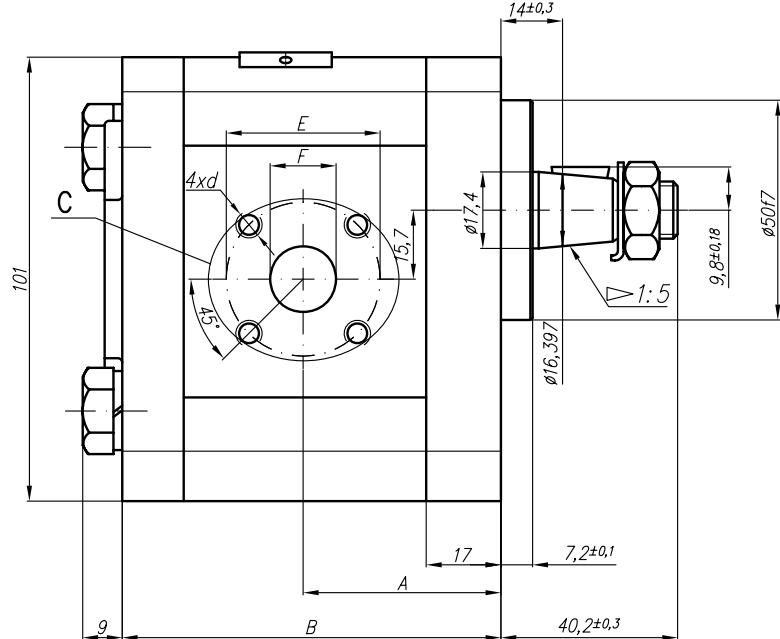
How to order:

Group	Rotation	Displacement code	Drive shaft	Pump code	Ports
00 10 20 30 40	A C R		X - Through the front cover Y - Through the both covers	***(*)	- A flange with metric threads P4 - A flange with UNC threads M - Metric G - GAS U - SAE J475

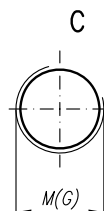
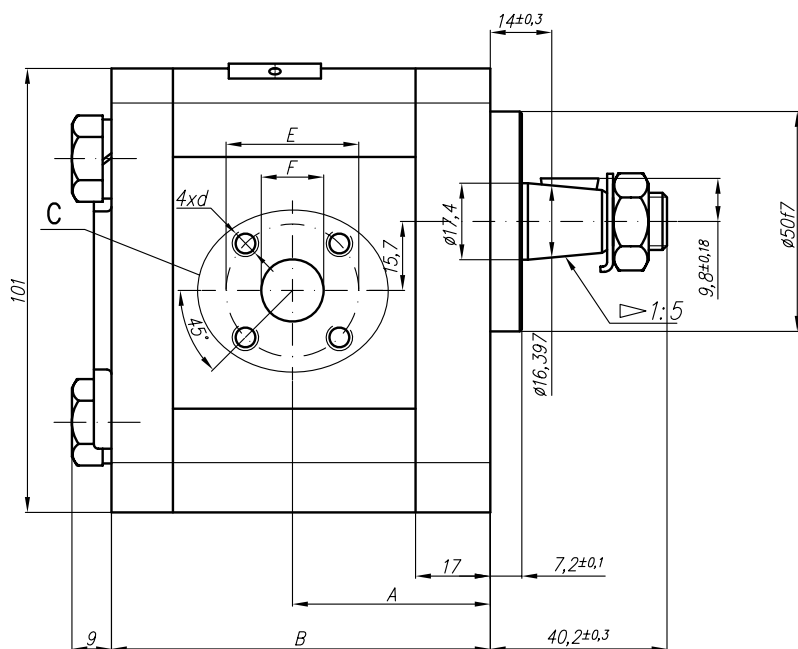
Group 00	Group 10	Group 20	Group 20H	Group 30	Group 40
Code cm ³	Code cm ³	Code cm ³	Code cm ³	Code cm ³	Code cm ³
0,25 0,25	1 1	4,5 4,5	15 15	20 20	36 36
0,3 0,3	1,25 1,25	6,3 6,3	16 16	22,5 22,5	42 42
0,5 0,5	1,6 1,6	7* 7	19 19	25 25	46 46
0,75 0,75	2 2	8,2 8,2	22 22	28 28	50 50
1 1	2,5 2,5	10 10	25 25	32 32	55 55
1,25 1,25	2,65* 2,65	11 11,3	28 28	36 36	60 60
1,5 1,5	3,15 3,15	12 12	32 32	42 42	
1,75 1,75	3,65 3,65	14 14	36 36	46 46	
2 2	4,2 4,2	15 15		50 50	
	4,7* 4,7	16 16		55 55	
	5 5	17* 17,3		60 60	
	5,7 5,7	19 19			
	6,1 6,1	22 22			
	7,4 7,4	25 25			
	8* 8	28 28			
	8,5 8,5	32 32			
	9,8 9,8	36 36			

Example: 20A14X073 - Hydraulic gear pump, 20 group, direction of rotation - counter clockwise, displacement 14 cm³, modification 073.

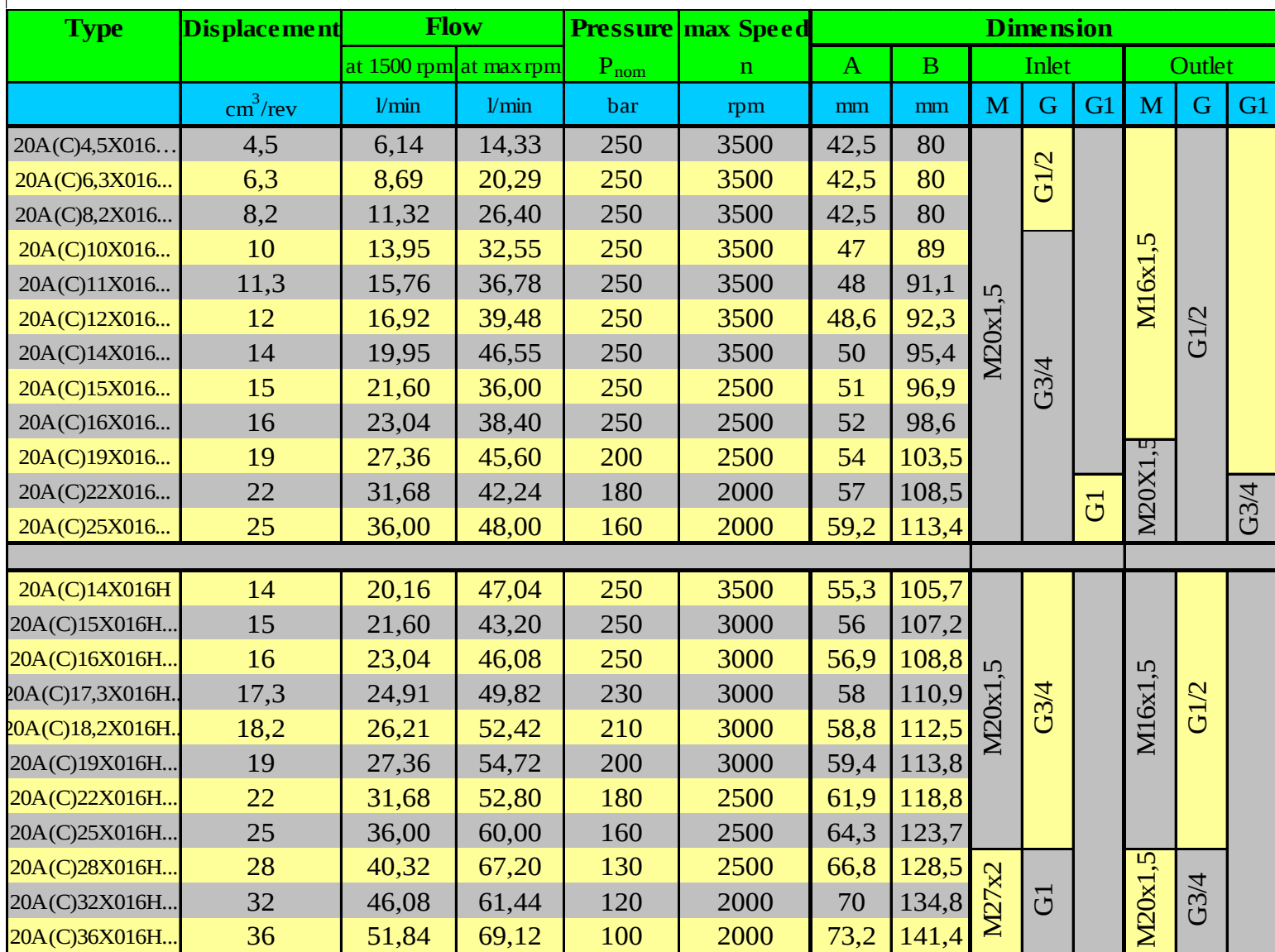
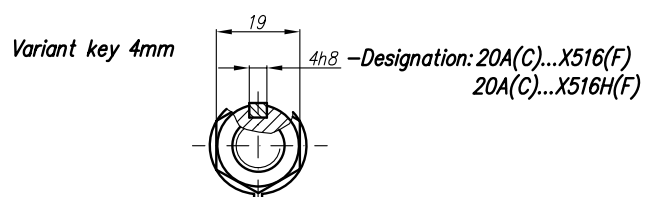
* - These pumps - only under a special order

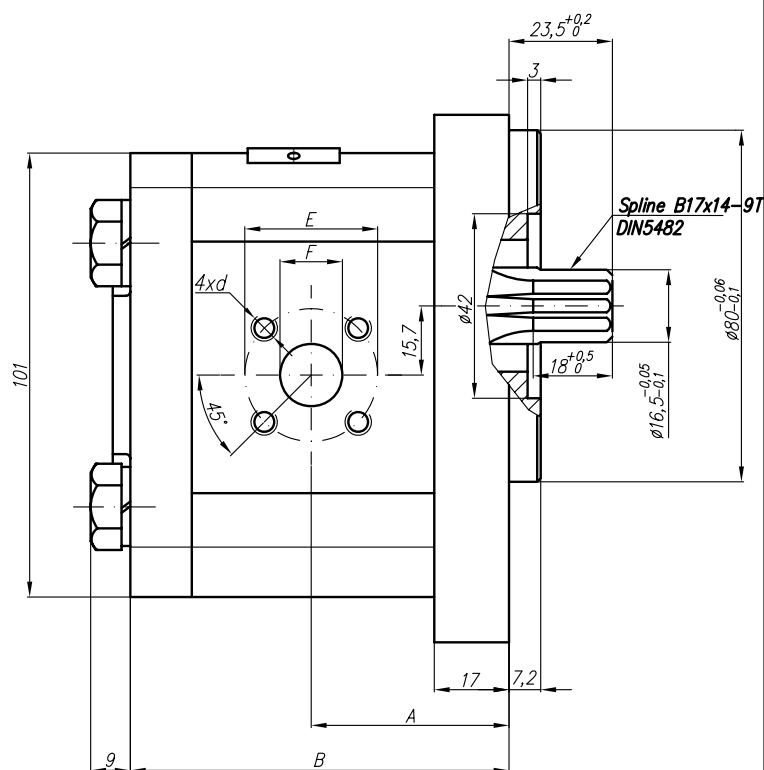


Type	Displacement	Flow		Pressure P _{nom}	max Speed n	Dimension													
		at 1500 rpm	at max rpm			A	B	Inlet						Outlet					
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	E	F	d	M	G	U	E	F	d	M	G	U
20A(C)4,5X007...	4,5	6,14	14,33	250	3500	37,3	75,1	40	15	M6-6H	M20x1,5	G1/2		35	15	M6-6H	M16x1,5	G1/2	
20A(C)6,3X007...	6,3	8,69	20,29	250	3500	38,6	78												
20A(C)7X007...	7	9,66	22,54	250	3500	42,5	82,1												
20A(C)8,2X007...	8,2	11,32	26,40	250	3500	40,6	78												
20A(C)10X007...	10	13,95	32,55	250	3500	45	87												
20A(C)11X007...	11,3	15,76	36,78	250	3500	45	89,1												
20A(C)12X007...	12	16,92	39,48	250	3500	45	90,3												
20A(C)14X007...	14	19,95	46,55	250	3500	45	93,4												
20A(C)15X007...	15	21,60	36,00	250	2500	45	94,9												
20A(C)16X007...	16	23,04	38,40	250	2500	45	96,5												
20A(C)19X007...	19	27,36	45,60	200	2500	45	101,5												
20A(C)22X007...	22	31,68	42,24	180	2000	52,5	106,5												
20A(C)25X007...	25	36,00	48,00	160	2000	57,2	111,4												
20A(C)14X007H...	14	20,16	47,04	250	3500	53,3	103,7	40	20	M6-6H	M20x1,5	G3/4	G3/4	35	15	M6-6H	M16x1,5	G1/2	
20A(C)15X007H...	15	21,60	43,20	250	3000	54	105,2												
20A(C)16X007H...	16	23,04	46,08	250	3000	54,9	106,8												
20A(C)17,3X007H...	17,3	24,91	49,82	230	3000	56	108,9												
20A(C)18,2X007H...	18,2	26,21	52,42	210	3000	56,8	110,5												
20A(C)19X007H...	19	27,36	54,72	200	3000	57,4	111,8												
20A(C)22X007H...	22	31,68	52,80	180	2500	59,9	116,8												
20A(C)25X007H...	25	36,00	60,00	160	2500	62,3	121,7												
20A(C)28X007H...	28	40,32	67,20	130	2500	64,8	126,5												
20A(C)32X007H...	32	46,08	61,44	120	2000	68	132,8												
20A(C)36X007H...	36	51,84	69,12	100	2000	71,2	139,4												

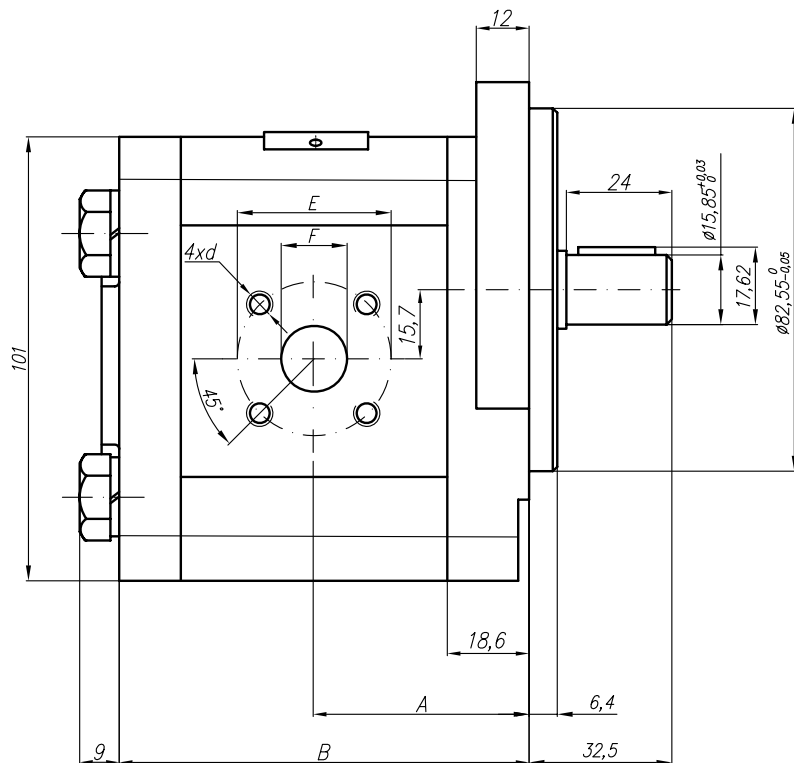


Type	Displacement	Flow		Pressure P _{nom}	max Speed n	Dimension													
		at 1500 rpm	at max rpm			A	B	Inlet				Outlet							
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	E	F	d	M	G	U	E	F	d	M	G	U
20A(C)4,5X008...	4,5	6,14	14,33	250	3500	37,3	75,1	40	15	M6-6H	M20x1,5	G1/2		35		M6-6H	M16x1,5	G1/2	
20A(C)6,3X008...	6,3	8,69	20,29	250	3500	38,6	78												
20A(C)8,2X008...	8,2	11,32	26,40	250	3500	40,6	78												
20A(C)10X008...	10	13,95	32,55	250	3500	45	87												
20A(C)11X008...	11,3	15,76	36,78	250	3500	45	89,1												
20A(C)12X008...	12	16,92	39,48	250	3500	45	90,3												
20A(C)14X008...	14	19,95	46,55	250	3500	45	93,4												
20A(C)15X008...	15	21,60	36,00	250	2500	45	94,9												
20A(C)16X008...	16	23,04	38,40	250	2500	45	96,5												
20A(C)19X008...	19	27,36	45,60	200	2500	45	101,5												
20A(C)22X008...	22	31,68	42,24	180	2000	52,5	106,5												
20A(C)25X008...	25	36,00	48,00	160	2000	57,2	111,4												

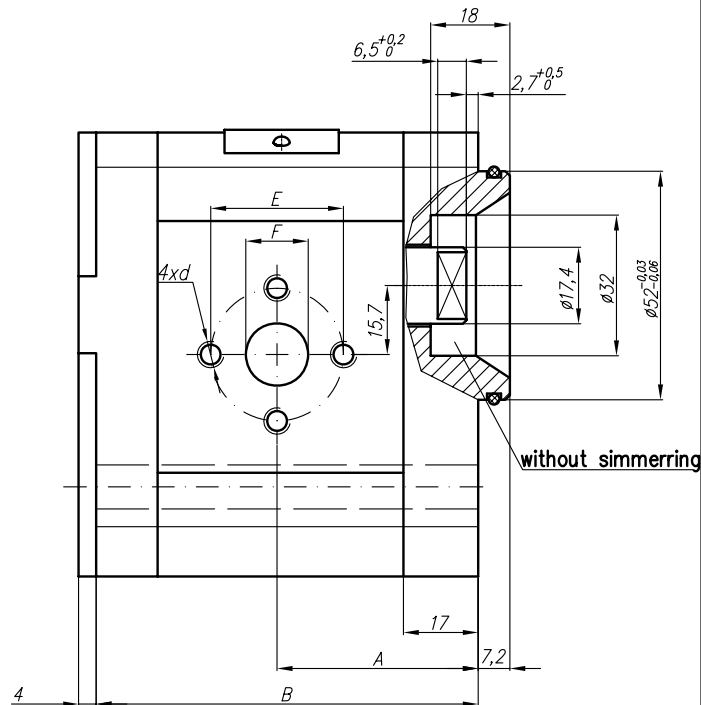




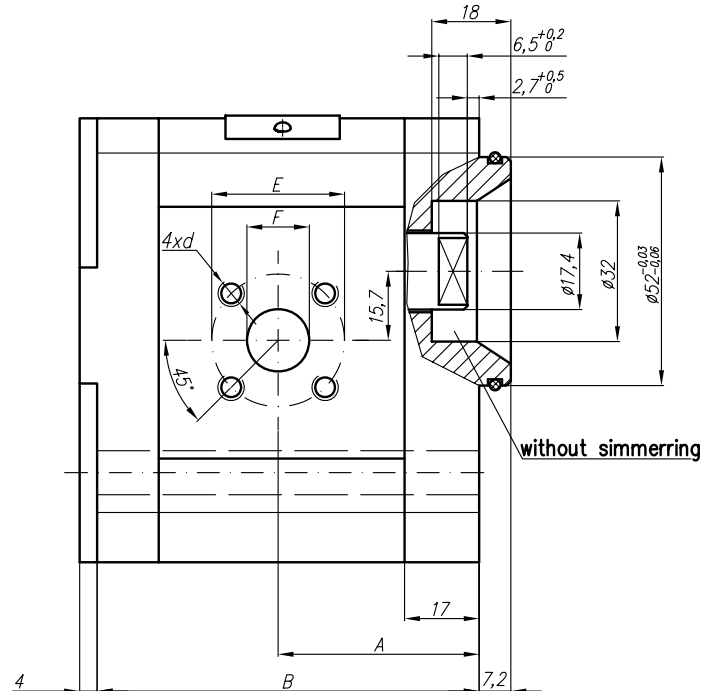
Type	Displacement	Flow		Pressure	max Speed	Dimension							
		at 1500 rpm	at max rpm			P _{nom}	n	A	B	Inlet			Outlet
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	E	F	d	E	F	d
20A(C)4,5X021	4,5	6,14	14,33	250	3500	39,8	78	40	15	M6-6H	35	15	M6-6H
20A(C)6,3X021	6,3	8,69	20,29	250	3500	41	81						
20A(C)8,2X021	8,2	11,32	26,40	250	3500	43,1	83,9						
20A(C)10X021	10	13,95	32,55	250	3500	47,5	87						
20A(C)11X021	11,3	15,76	36,78	250	3500	47,5	89,1						
20A(C)12X021	12	16,92	39,48	250	3500	47,5	90,3						
20A(C)14X021	14	19,95	46,55	250	3500	47,5	93,4		20				
20A(C)15X021	15	21,60	36,00	250	2500	47,5	94,9						
20A(C)16X021	16	23,04	38,40	250	2500	47,5	96,6						
20A(C)19X021	19	27,36	45,60	200	2500	47,5	101,5						
20A(C)22X021	22	31,68	42,24	180	2000	55	106,5						
20A(C)25X021	25	36,00	48,00	160	2000	57,2	111,4						



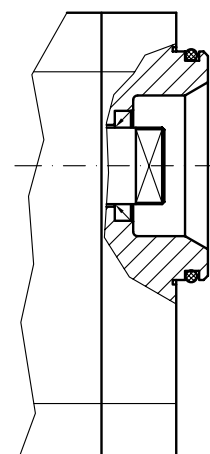
Type	Displacement	Flow		Pressure	max Speed	Dimension							
		at 1500 rpm	at max rpm			P _{nom}	n	A	B	Inlet			Outlet
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	E	F	d	E	F	d
20A(C)4,5X022	4,5	6,14	14,33	250	3500	41,4	79,6	40	15	M6-6H	35	15	M6-6H
20A(C)6,3X022	6,3	8,69	20,29	250	3500	42,6	82,6		20				
20A(C)8,2X022	8,2	11,32	26,40	250	3500	44,7	85,5						
20A(C)10X022	10	13,95	32,55	250	3500	49,1	88,6						
20A(C)11X022	11,3	15,76	36,78	250	3500	49,1	90,7						
20A(C)12X022	12	16,92	39,48	250	3500	49,1	91,9						
20A(C)14X022	14	19,95	46,55	250	3500	49,1	95						
20A(C)15X022	15	21,60	36,00	250	2500	49,1	96,5						
20A(C)16X022	16	23,04	38,40	250	2500	49,1	98,2						
20A(C)19X022	19	27,36	45,60	200	2500	49,1	103,1						
20A(C)22X022	22	31,68	42,24	180	2000	56,6	108,1						
20A(C)25X022	25	36,00	48,00	160	2000	58,8	113						



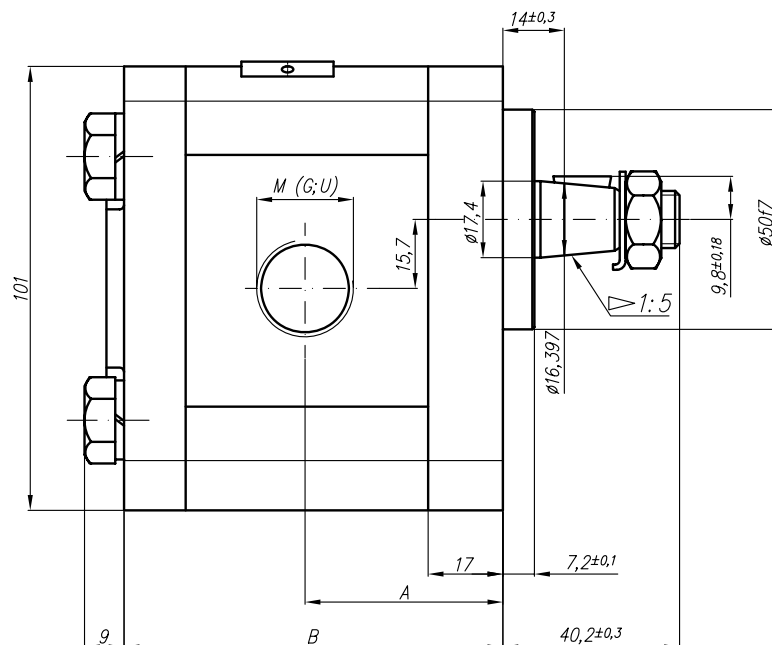
Type	Displacement	Flow		Pressure	max Speed	Dimension									
		at 1500 rpm	at max rpm			P _{nom}	n	A	B	Inlet			Outlet		
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	E	F	d	E	F	d		
20A(C)4,5X066	4,5	6,14	14,33	250	3500	40,5	78	30,2	13,1	M6-6H	30,2	13,1	M6-6H		
20A(C)6,3X066	6,3	8,69	20,29	250	3500	42	81								
20A(C)8,2X066	8,2	11,32	26,40	250	3500	43,5	83,9								
20A(C)10X066	10	13,95	32,55	250	3500	45	87	39,7	19	M8-6H		39,7		14,2	M6-6H
20A(C)11X066	11,3	15,76	36,78	250	3500	46	89,1								
20A(C)12X066	12	16,92	39,48	250	3500	46,6	90,3								
20A(C)14X066	14	19,95	46,55	250	3500	48	93,4								
20A(C)15X066	15	21,60	36,00	250	2500	49	95								
20A(C)16X066	16	23,04	38,40	250	2500	50	96,6								
20A(C)19X066	19	27,36	45,60	200	2500	52	101,5								
20A(C)22X066	22	31,68	42,24	180	2000	55	106,5								
20A(C)25X066	25	36,00	48,00	160	2000	57,2	111,4								
20A(C)14X066H	14	20,16	47,04	250	3500	55,3	105,7	39,7	19	M8-6H	30,2	14,2	M6-6H		
20A(C)15X066H	15	21,60	43,20	250	3000	56	107,2								
20A(C)16X066H	16	23,04	46,08	250	3000	56,9	108,8								
20A(C)17,3X066H	17,3	24,91	49,82	230	3000	58	110,9								
20A(C)18,2X066H	18,2	26,21	52,42	210	3000	58,8	112,5								
20A(C)19X066H	19	27,36	54,72	200	3000	59,4	113,8								
20A(C)22X066H	22	31,68	52,80	180	2500	61,9	118,8								
20A(C)25X066H	25	36,00	60,00	160	2500	64,3	123,7								
20A(C)28X066H	28	40,32	67,20	130	2500	66,8	128,5				39,7	19	M8-6H		
20A(C)32X066H	32	46,08	61,44	120	2000	70	134,8								
20A(C)36X066H	36	51,84	69,12	100	2000	73,2	141,4								



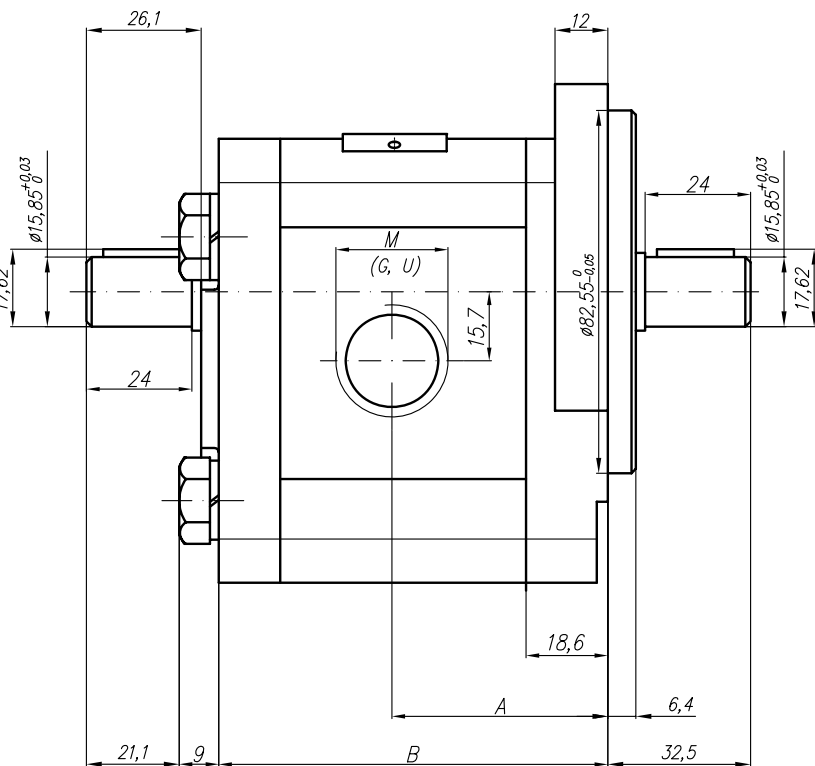
Designation: 20A(C)...X188AS



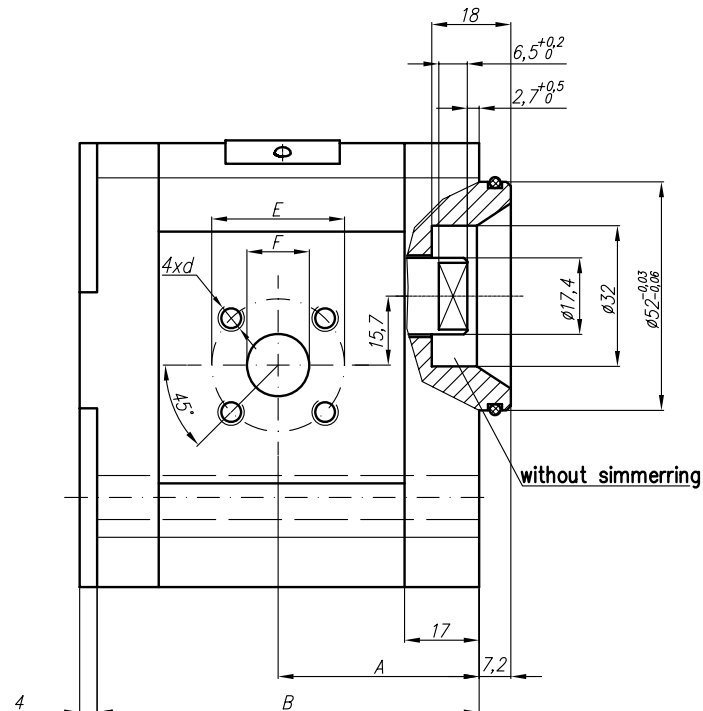
Type	Displacement	Flow		Pressure	max Speed	Dimension							
		at 1500 rpm	at max rpm			P _{nom}	n	A	B	Inlet			Outlet
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	E	F	d	E	F	d
20A(C)4,5X072	4,5	6,14	14,33	250	3500	37,3	75,1	40	15	M6-6H	35	15	M6-6H
20A(C)6,3X072	6,3	8,69	20,29	250	3500	38,6	78						
20A(C)8,2X072	8,2	11,32	26,40	250	3500	40,6	78						
20A(C)10X072	10	13,95	32,55	250	3500	45	87						
20A(C)11X072	11,3	15,76	36,78	250	3500	45	89,1						
20A(C)12X072	12	16,92	39,48	250	3500	45	90,3						
20A(C)14X072	14	19,95	46,55	250	3500	45	93,4						
20A(C)15X072	15	21,60	36,00	250	2500	45	94,9						
20A(C)16X072	16	23,04	38,40	250	2500	45	96,5						
20A(C)19X072	19	27,36	45,60	200	2500	45	101,5						
20A(C)22X072	22	31,68	42,24	180	2000	52,5	106,5						
20A(C)25X072	25	36,00	48,00	160	2000	57,2	111,4						



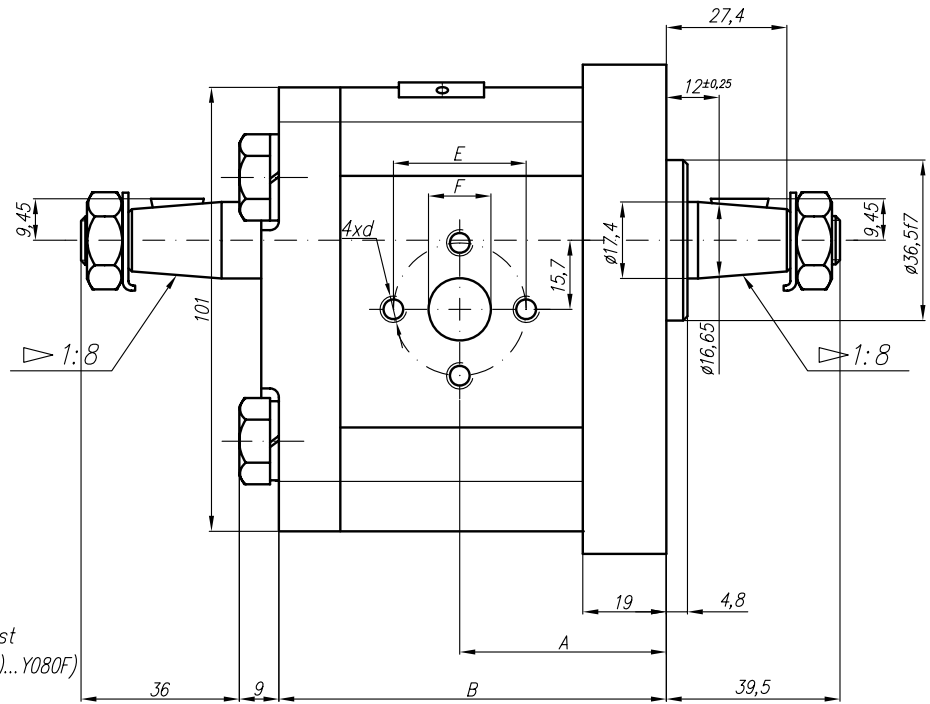
Type	Displacement	Flow		Pressure	max Speed	Dimension								
		at 1500 rpm	at max rpm			P _{nom}	n	A	B	Inlet			Outlet	
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	M	G	U	M	G	U	
20A(C)4,5X074...	4,5	6,14	14,33	250	3500	37,3	75,1	M20x1,5	G1/2	1 1/16"-12UNF	M16x1,5		G1/2	7/8"-14UNF
20A(C)6,3X074...	6,3	8,69	20,29	250	3500	38,6	78							
20A(C)8,2X074...	8,2	11,32	26,40	250	3500	40,6	78							
20A(C)10X074...	10	13,95	32,55	250	3500	45	87							
20A(C)11X074...	11,3	15,76	36,78	250	3500	45	89,1							
20A(C)12X074...	12	16,92	39,48	250	3500	45	90,3							
20A(C)14X074...	14	19,95	46,55	250	3500	45	93,4							
20A(C)15X074...	15	21,60	36,00	250	2500	45	94,9							
20A(C)16X074...	16	23,04	38,40	250	2500	45	96,5							
20A(C)19X074...	19	27,36	45,60	200	2500	45	101,5							
20A(C)22X074...	22	31,68	42,24	180	2000	52,5	106,5							
20A(C)25X074...	25	36,00	48,00	160	2000	57,2	111,4							



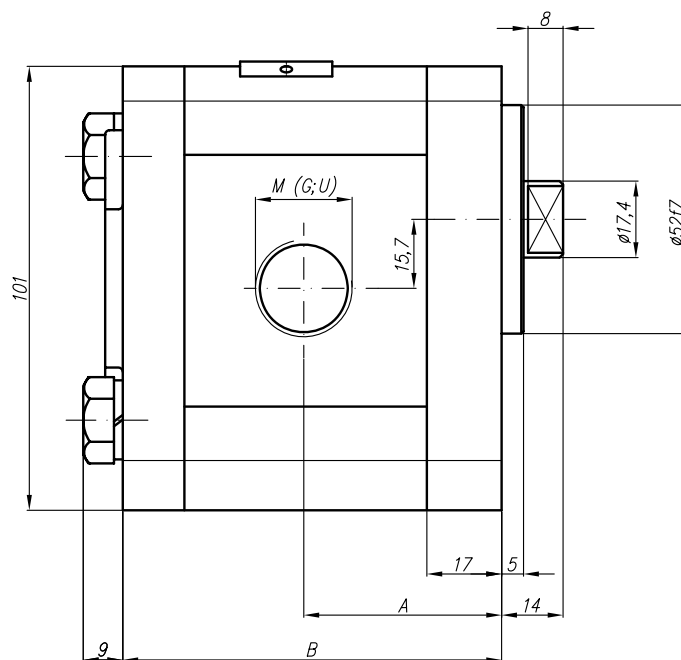
Type	Displacement	Flow		Pressure P _{nom}	max Speed n	Dimension							
		at 1500 rpm	at max rpm			A	B	Inlet			Outlet		
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	M	G	U	M	G	U
20A(C)4,5Y075...	4,5	6,14	14,33	250	3500	42	79,6	M20x1,5	G1/2	1 1/16"-12UNF	M16x1,5	G1/2	7/8"-14UNF
20A(C)6,3Y075...	6,3	8,69	20,29	250	3500	43,6	82,6						
20A(C)8,2Y075...	8,2	11,32	26,40	250	3500	45	85,6						
20A(C)10Y075...	10	13,95	32,55	250	3500	46,6	88,7						
20A(C)11Y075...	11,3	15,76	36,78	250	3500	47,6	90,7						
20A(C)12Y075...	12	16,92	39,48	250	3500	48,2	91,9						
20A(C)14Y075...	14	19,95	46,55	250	3500	49,6	95						
20A(C)15Y075...	15	21,60	36,00	250	2500	50,6	96,5						
20A(C)16Y075...	16	23,04	38,40	250	2500	51,6	98,2						
20A(C)19Y075...	19	27,36	45,60	200	2500	53,6	103,1						
20A(C)22Y075...	22	31,68	42,24	180	2000	56,6	108,1						
20A(C)25Y075...	25	36,00	48,00	160	2000	58,8	113						



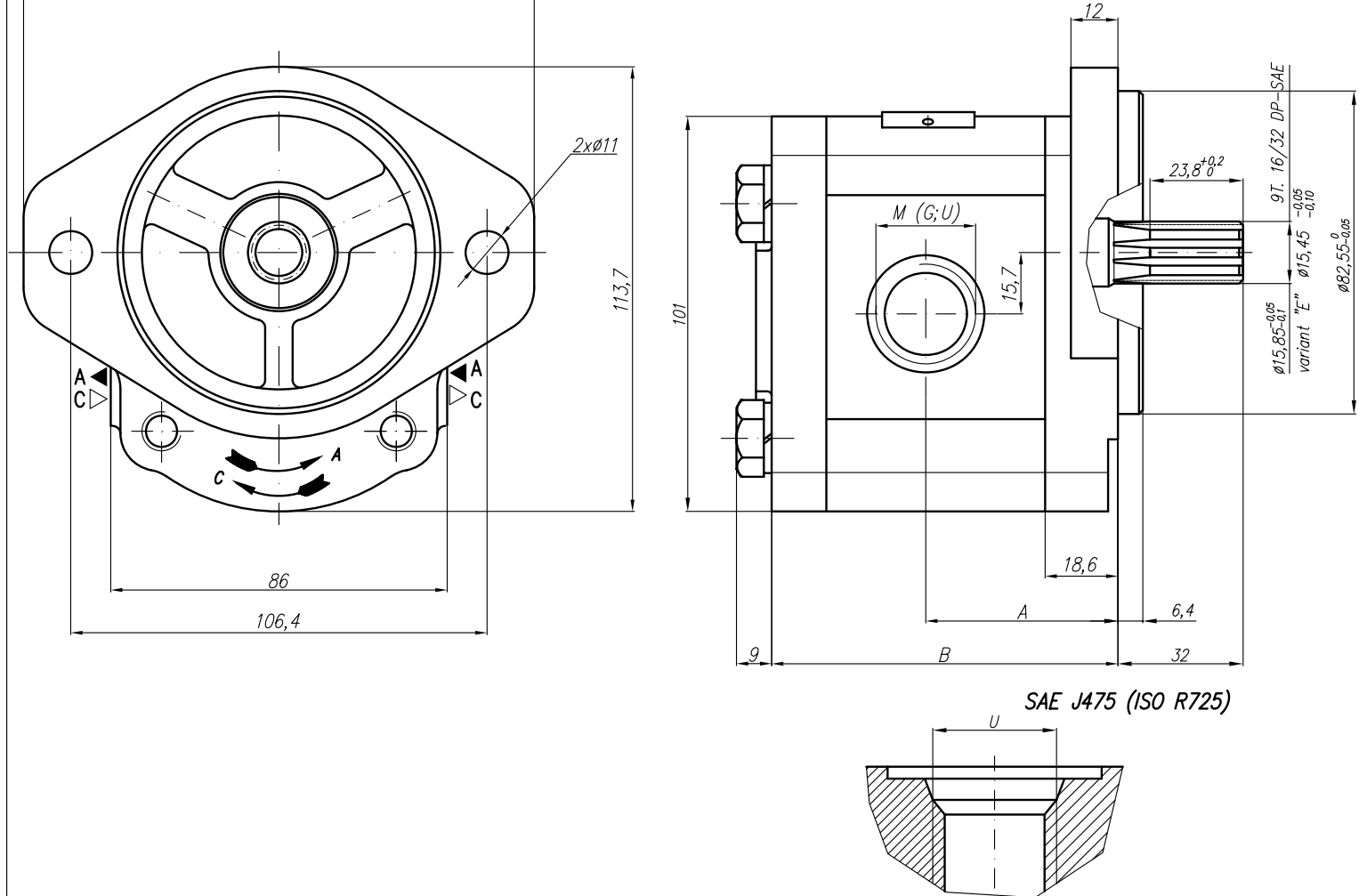
Type	Displacement	Flow		Pressure	max Speed	Dimension								
		at 1500 rpm	at max rpm			P _{nom}	n	A	B	Inlet			Outlet	
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	E	F	d	E	F	d	
20A(C)4,5X077	4,5	6,14	14,33	250	3500	37,3	78	40	15	M6-6H	35	15	M6-6H	
20A(C)6,3X077	6,3	8,69	20,29	250	3500	38,6	81							
20A(C)8,2X077	8,2	11,32	26,40	250	3500	40,6	83,9							
20A(C)10X077	10	13,95	32,55	250	3500	45	87							
20A(C)11X077	11,3	15,76	36,78	250	3500	45	89							
20A(C)12X077	12	16,92	39,48	250	3500	45	90,3							
20A(C)14X077	14	19,95	46,55	250	3500	45	93,4							
20A(C)15X077	15	21,60	36,00	250	2500	45	95							
20A(C)16X077	16	23,04	38,40	250	2500	45	96,5							
20A(C)19X077	19	27,36	45,60	200	2500	45	101,5							
20A(C)22X077	22	31,68	42,24	180	2000	52,5	106,5							
20A(C)25X077	25	36,00	48,00	160	2000	57,2	111,4							
20A(C)14X077H	14	20,16	47,04	250	3500	50	103,7	40	20	M6-6H	35	15	M6-6H	
20A(C)4,5X077H	15	21,60	43,20	250	3000	54	105,2							
20A(C)6,3X077H	16	23,04	46,08	250	3000	54,9	106,8							
20A(C)8,2X077H	17,3	24,91	49,82	230	3000	56	108,9							
20A(C)10X077H	18,2	26,21	52,42	210	3000	56,8	110,5							
20A(C)11X077H	19	27,36	54,72	200	3000	57,4	111,8							
20A(C)12X077H	22	31,68	52,80	180	2500	59,9	116,8				40	20		M6-6H
20A(C)14X077H	25	36,00	60,00	160	2500	62,3	121,7							
20A(C)15X077H	28	40,32	67,20	130	2500	64,8	126,5							
20A(C)16X077H	32	46,08	61,44	120	2000	68	132,8							
20A(C)19X077H	36	51,84	69,12	100	2000	71,2	139,4							



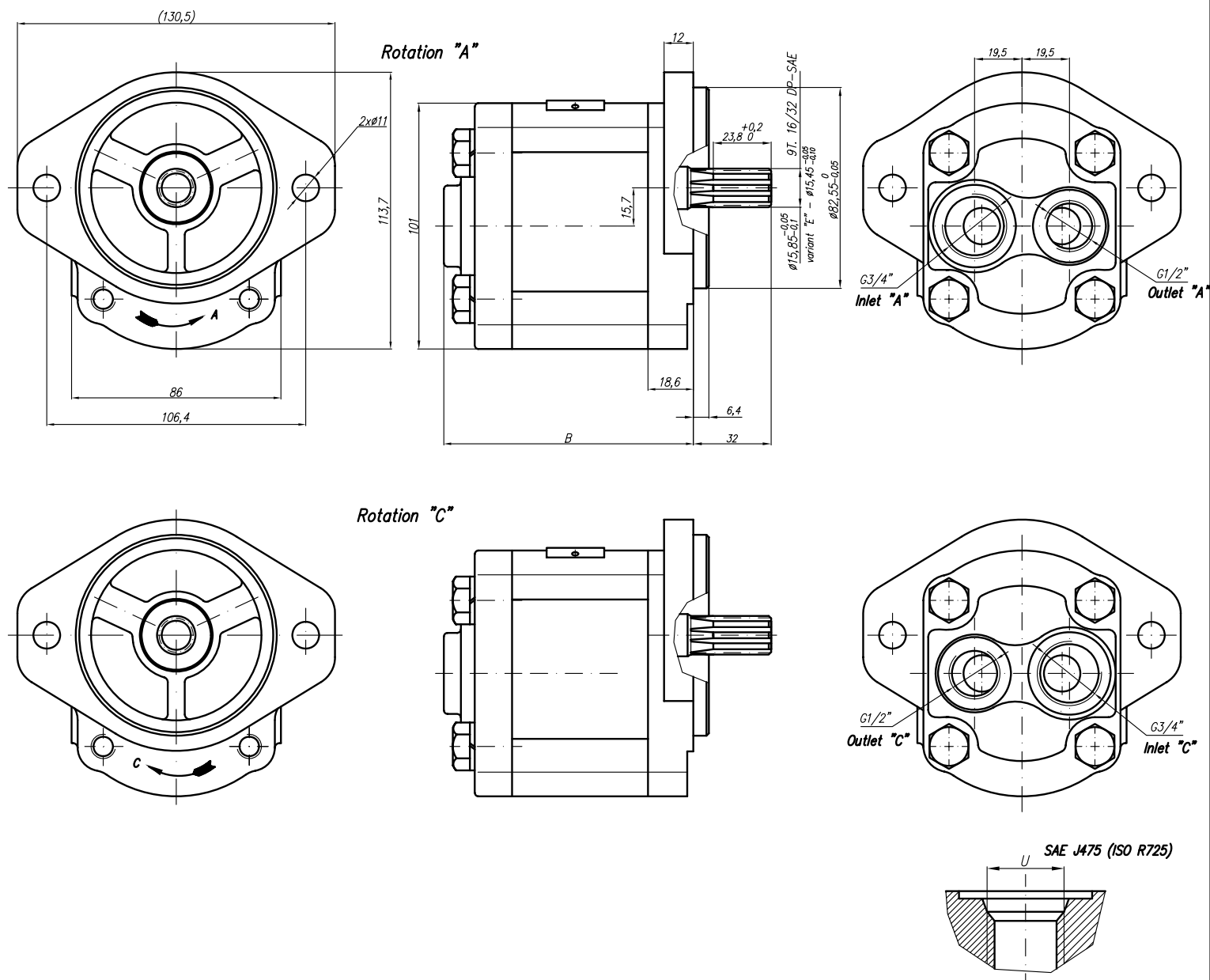
Type	Displacement	Flow		Pressure P _{nom}	max Speed n	Dimension									
		at 1500 rpm	at max rpm			A	B	Inlet			Outlet				
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	E	F	d	E	F	d		
20A(C)4,5Y080	4,5	6,14	14,33	250	3500	42,5	80	30,2	13,1	1/4-20UNC	30,2	13,1	1/4" -20UNC		
20A(C)6,3Y080	6,3	8,69	20,29	250	3500	42,5	80								
20A(C)8,2Y080	8,2	11,32	26,40	250	3500	42,5	80								
20A(C)10Y080	10	13,95	32,55	250	3500	47	89	39,7	19	5/16"-18UNC		30,2		14,2	1/4" -20UNC
20A(C)11Y080	11,3	15,76	36,78	250	3500	48	91,1								
20A(C)12Y080	12	16,92	39,48	250	3500	48,6	92,3								
20A(C)14Y080	14	19,95	46,55	250	3500	50	95,4								
20A(C)15Y080	15	21,60	36,00	250	2500	51	96,9								
20A(C)16Y080	16	23,04	38,40	250	2500	52	98,6								
20A(C)19Y080	19	27,36	45,60	200	2500	54	103,5	39,7	19	5/16"-18UNC	30,2	14,2	1/4" -20UNC		
20A(C)22Y080	22	31,68	42,24	180	2000	57	108,5								
20A(C)25Y080	25	36,00	48,00	160	2000	59,2	113,4								



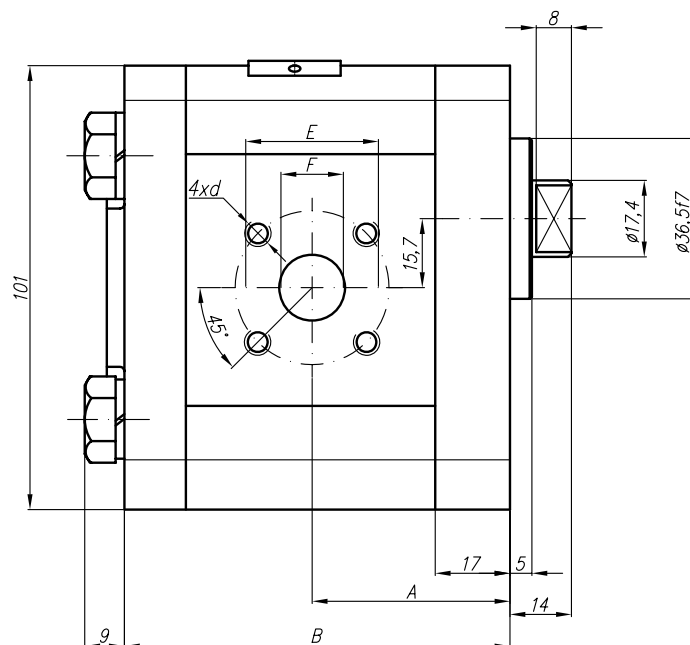
Type	Displacement	Flow		Pressure P _{nom}	max Speed n	Dimension							
		at 1500 rpm	at max rpm			A	B	Inlet			Outlet		
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	M	G	U	M	G	U
20A(C)4,5X083...	4,5	6,14	14,33	250	3500	37,3	75,1	M20x1,5	G1/2	1 1/16"-12UNF	M16x1,5	G1/2	7/8"-14UNF
20A(C)6,3X083...	6,3	8,69	20,29	250	3500	38,6	78						
20A(C)8,2X083...	8,2	11,32	26,40	250	3500	40,6	78						
20A(C)10X083...	10	13,95	32,55	250	3500	45	87						
20A(C)11X083...	11,3	15,76	36,78	250	3500	45	89,1						
20A(C)12X083...	12	16,92	39,48	250	3500	45	90,3						
20A(C)14X083...	14	19,95	46,55	250	3500	45	93,4		G3/4				
20A(C)15X083...	15	21,60	36,00	250	2500	45	94,9						
20A(C)16X083...	16	23,04	38,40	250	2500	45	96,5						
20A(C)19X083...	19	27,36	45,60	200	2500	45	101,5						
20A(C)22X083...	22	31,68	42,24	180	2000	52,5	106,5						
20A(C)25X083...	25	36,00	48,00	160	2000	57,2	111,4						



Type	Displacement	Flow		Pressure P _{nom}	max Speed n	Dimension							
		at 1500 rpm	at max rpm			A	B	Inlet			Outlet		
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	M	G	U	M	G	U
20A(C)4,5X085...	4,5	6,14	14,33	250	3500	42	79,6	M20x1,5	G1/2	1 1/16"-12UNF	M16x1,5	G1/2	7/8"-14UNF
20A(C)6,3X085...	6,3	8,69	20,29	250	3500	43,6	82,6						
20A(C)8,2X085...	8,2	11,32	26,40	250	3500	45	85,6						
20A(C)10X085...	10	13,95	32,55	250	3500	46,6	88,7		G3/4				
20A(C)11X085...	11,3	15,76	36,78	250	3500	47,6	90,7						
20A(C)12X085...	12	16,92	39,48	250	3500	48,2	91,9						
20A(C)14X085...	14	19,95	46,55	250	3500	49,6	95						
20A(C)15X085...	15	21,60	36,00	250	2500	50,6	96,5						
20A(C)16X085...	16	23,04	38,40	250	2500	51,6	98,2						
20A(C)19X085...	19	27,36	45,60	200	2500	53,6	103,1		M20X1,5				
20A(C)22X085...	22	31,68	42,24	180	2000	56,6	108,1						
20A(C)25X085...	25	36,00	48,00	160	2000	58,8	113						
20A(C)14X085H...	14	20,16	47,04	250	3500	54,8	105,7	M20x1,5	G3/4	1 1/16"-12UNF	M16x1,5	G1/2	7/8"-14UNF
20A(C)15X085H...	15	21,60	43,20	250	3000	55,6	106,8						
20A(C)16X085H...	16	23,04	46,08	250	3000	56,5	108,4						
20A(C)17,3X085H...	17,3	24,91	49,82	230	3000	57,6	110,5						
20A(C)18,2X085H...	18,2	26,21	52,42	210	3000	58,4	112,1						
20A(C)19X085H...	19	27,36	54,72	200	3000	59	113,4						
20A(C)22X085H...	22	31,68	52,80	180	2500	61,5	118,4		M27x2				
20A(C)25X085H...	25	36,00	60,00	160	2500	63,9	123,3						
20A(C)28X085H...	28	40,32	67,20	130	2500	66,4	128,1						
20A(C)32X085H...	32	46,08	61,44	120	2000	69,6	134,4						
20A(C)36X085H...	36	51,84	69,12	100	2000	72,8	141						
								M27x2	G1	1 5/16"-12	M20x1,5	G3/4	1 1/16"-12

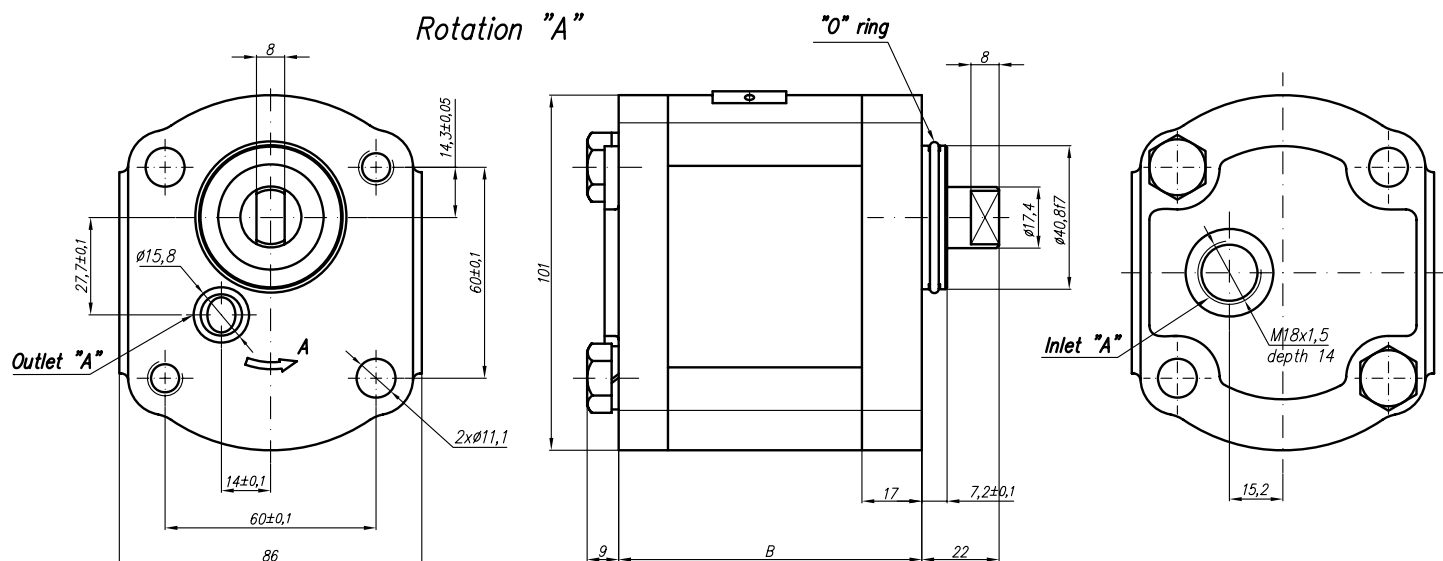


Type	Displacement	Flow		Pressure	max Speed	Dimension							
		at 1500 rpm	at max rpm			P _{nom}	n	A	B	Inlet			Outlet
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	M	G	U	M	G	U
20A(C)4,5X085W	4,5	6,14	14,33	250	3500		93,6	G3/4	1 1/16"-12UNF			G1/2	7/8"-14UNF
20A(C)6,3X085W	6,3	8,69	20,29	250	3500		96,6						
20A(C)8,2X085W	8,2	11,32	26,40	250	3500		99,5						
20A(C)10X085W	10	13,95	32,55	250	3500		102,5						
20A(C)11X085W	11,3	15,76	36,78	250	3500		104,6						
20A(C)12X085W	12	16,92	39,48	250	3500		105,9						
20A(C)14X085W	14	19,95	46,55	250	3500		108,9						
20A(C)15X085W	15	21,60	36,00	250	2500		110,5						
20A(C)16X085W	16	23,04	38,40	250	2500		112,1						
20A(C)19X085W	19	27,36	45,60	200	2500		117,1						
20A(C)22X085W	22	31,68	42,24	180	2000		122,1						
20A(C)25X085W	25	36,00	48,00	160	2000		127						

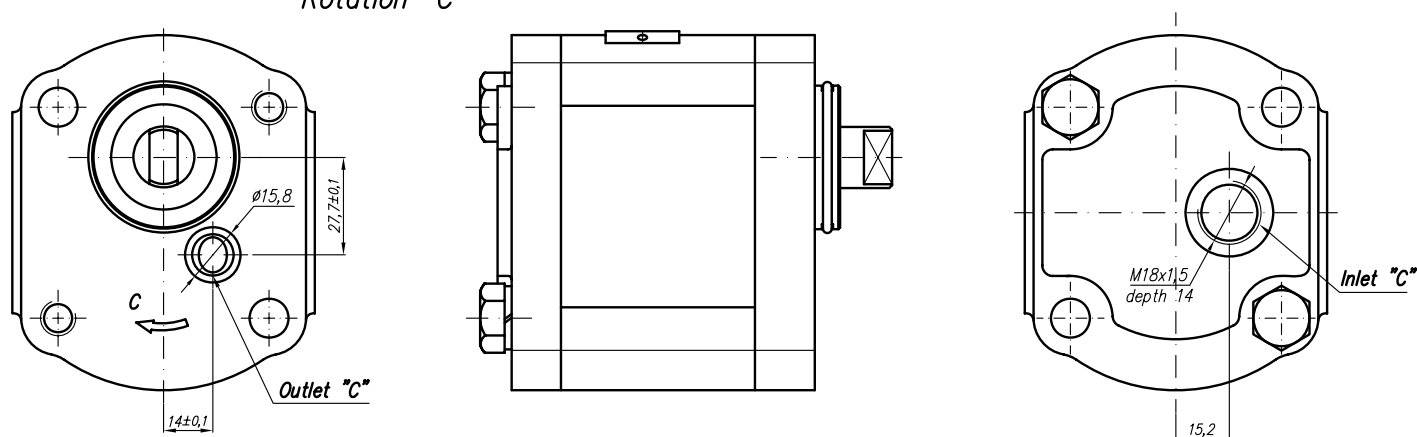


Type	Displacement	Flow		Pressure P _{nom}	max Speed n	Dimension							
		at 1500 rpm	at max rpm			A	B	Inlet			Outlet		
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	E	F	d	E	F	d
20A(C)4,5X087	4,5	6,14	14,33	250	3500	37,3	75,1	40	15	M6-6H	35	15	M6-6H
20A(C)6,3X087	6,3	8,69	20,29	250	3500	38,6	78						
20A(C)8,2X087	8,2	11,32	26,40	250	3500	40,6	78						
20A(C)10X087	10	13,95	32,55	250	3500	45	87						
20A(C)11X087	11,3	15,76	36,78	250	3500	45	89,1						
20A(C)12X087	12	16,92	39,48	250	3500	45	90,3						
20A(C)14X087	14	19,95	46,55	250	3500	45	93,4						
20A(C)15X087	15	21,60	36,00	250	2500	45	94,9						
20A(C)16X087	16	23,04	38,40	250	2500	45	96,5						
20A(C)19X087	19	27,36	45,60	200	2500	45	101,5						
20A(C)22X087	22	31,68	42,24	180	2000	52,5	106,5						
20A(C)25X087	25	36,00	48,00	160	2000	57,2	111,4						

Rotation "A"

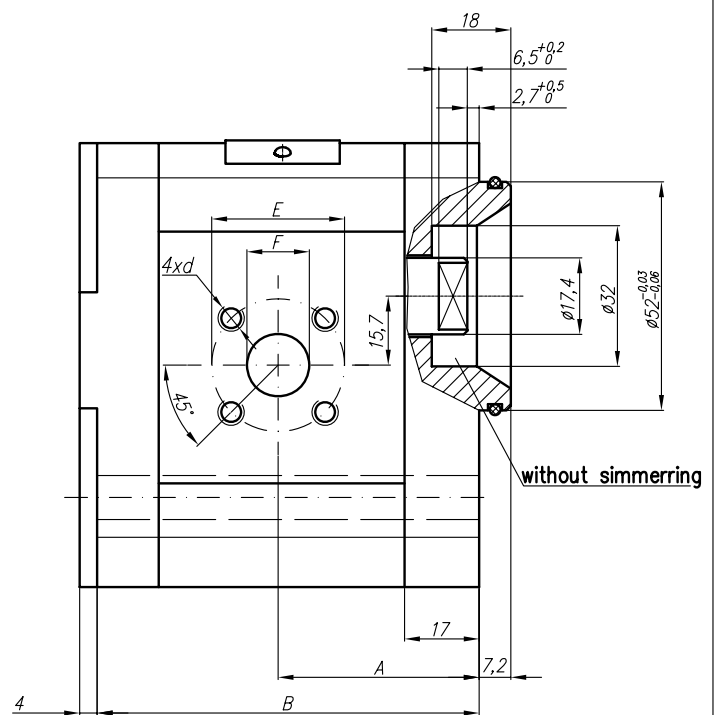


Rotation "C"

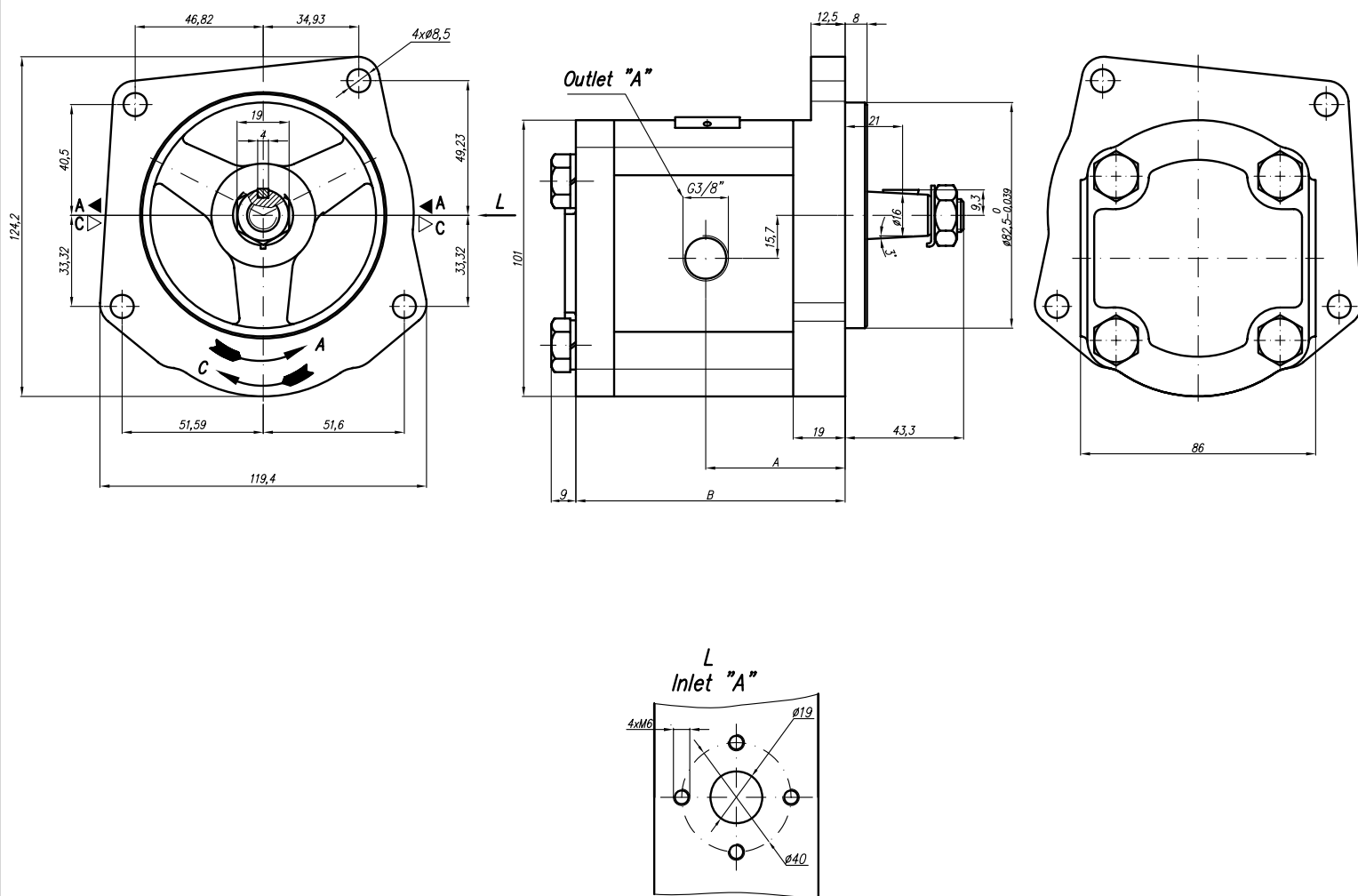


* It's required inlet overpressure 0,2...0,3 bar.

Type	Displacement	Flow		Pressure	max Speed	Dimension						
		at 1500 rpm	at max rpm			A	B	Inlet			Outlet	
	cm ³ /rev	l/min	l/min	P _{nom} bar	n* rpm	mm	mm	M	G	U		
20A(C)4,5X091	4,5	6,14	14,33	250	3500		75,1	M18x1,5				
20A(C)6,3X091	6,3	8,69	20,29	250	3500		78					
20A(C)8,2X091	8,2	11,32	26,40	250	3500		78					
20A(C)10X091	10	13,95	32,55	250	3500		87					
20A(C)11X091	11,3	15,76	36,78	250	3500		89,1					
20A(C)12X091	12	16,92	39,48	250	3500		90,3					
20A(C)14X091	14	19,95	46,55	250	3500		93,4					
20A(C)15X091	15	21,60	36,00	250	2500		94,9					
20A(C)16X091	16	23,04	38,40	250	2500		96,5					
20A(C)19X091	19	27,36	45,60	200	2500		101,5					
20A(C)22X091	22	31,68	42,24	180	2000		106,5					
20A(C)25X091	25	36,00	48,00	160	2000		111,4					

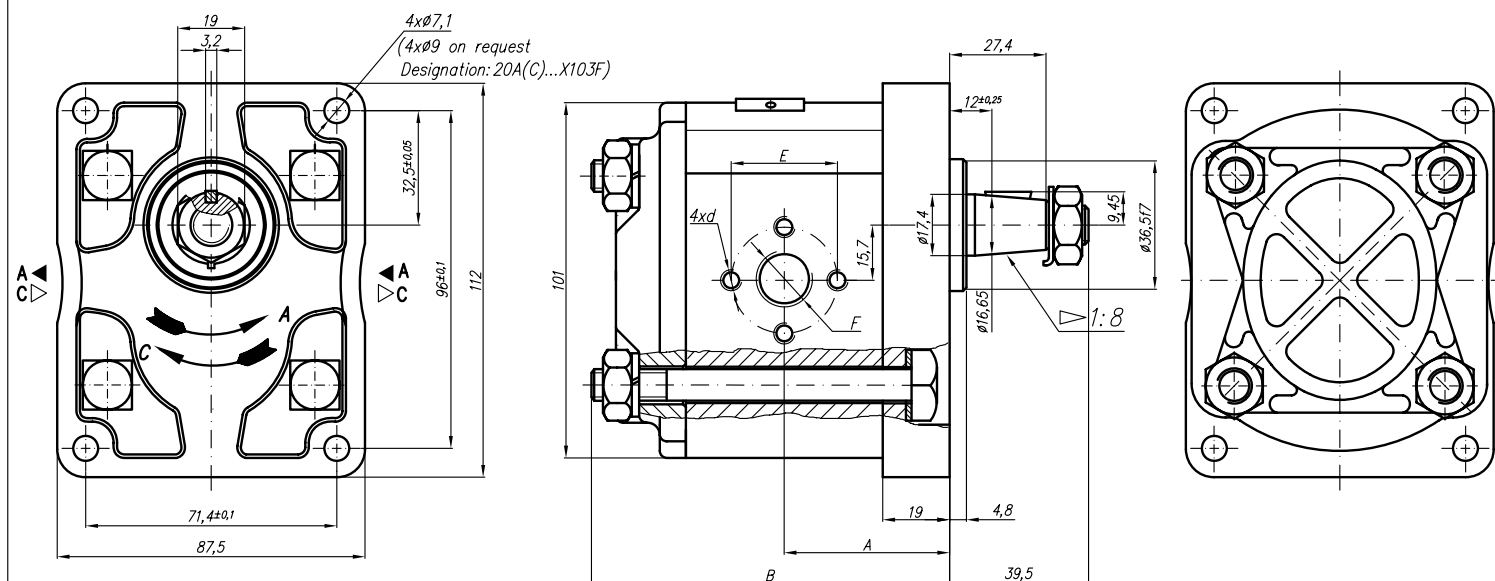


Type	Displacement	Flow		Pressure P _{nom}	max Speed n	Dimension							
		at 1500 rpm	at max rpm			A	B	Inlet			Outlet		
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	E	F	d	E	F	d
20A(C)4,5X097	4,5	6,14	14,33	250	3500	40,5	78	40	15	M6-6H	35	15	M6-6H
20A(C)6,3X097	6,3	8,69	20,29	250	3500	42	81						
20A(C)8,2X097	8,2	11,32	26,40	250	3500	43,5	83,9						
20A(C)10X097	10	13,95	32,55	250	3500	45	87						
20A(C)11X097	11,3	15,76	36,78	250	3500	46	89						
20A(C)12X097	12	16,92	39,48	250	3500	46,5	90,3						
20A(C)14X097	14	19,95	46,55	250	3500	48	93,4						
20A(C)15X097	15	21,60	36,00	250	2500	49	95						
20A(C)16X097	16	23,04	38,40	250	2500	50	96,5						
20A(C)19X097	19	27,36	45,60	200	2500	52	101,5						
20A(C)22X097	22	31,68	42,24	180	2000	55	106,5						
20A(C)25X097	25	36,00	48,00	160	2000	57,2	111,4						
20A(C)14X097H	14	20,16	47,04	250	3500	53	110,9	40	20	M6-6H	35	15	M6-6H
20A(C)15X097H	15	21,60	43,20	250	3000	54	105,2						
20A(C)16X097H	16	23,04	46,08	250	3000	54,9	106,8						
20A(C)17,3X097H	17,3	24,91	49,82	230	3000	56	108,9						
20A(C)18,2X097H	18,2	26,21	52,42	210	3000	56,8	110,5						
20A(C)19X097H	19	27,36	54,72	200	3000	57,4	111,8						
20A(C)22X097H	22	31,68	52,80	180	2500	59,9	116,8				40	20	
20A(C)25X097H	25	36,00	60,00	160	2500	62,3	121,7						
20A(C)28X097H	28	40,32	67,20	130	2500	64,8	126,5						
20A(C)32X097H	32	46,08	61,44	120	2000	68	132,8						
20A(C)36X097H	36	51,84	69,12	100	2000	71,2	139,4						

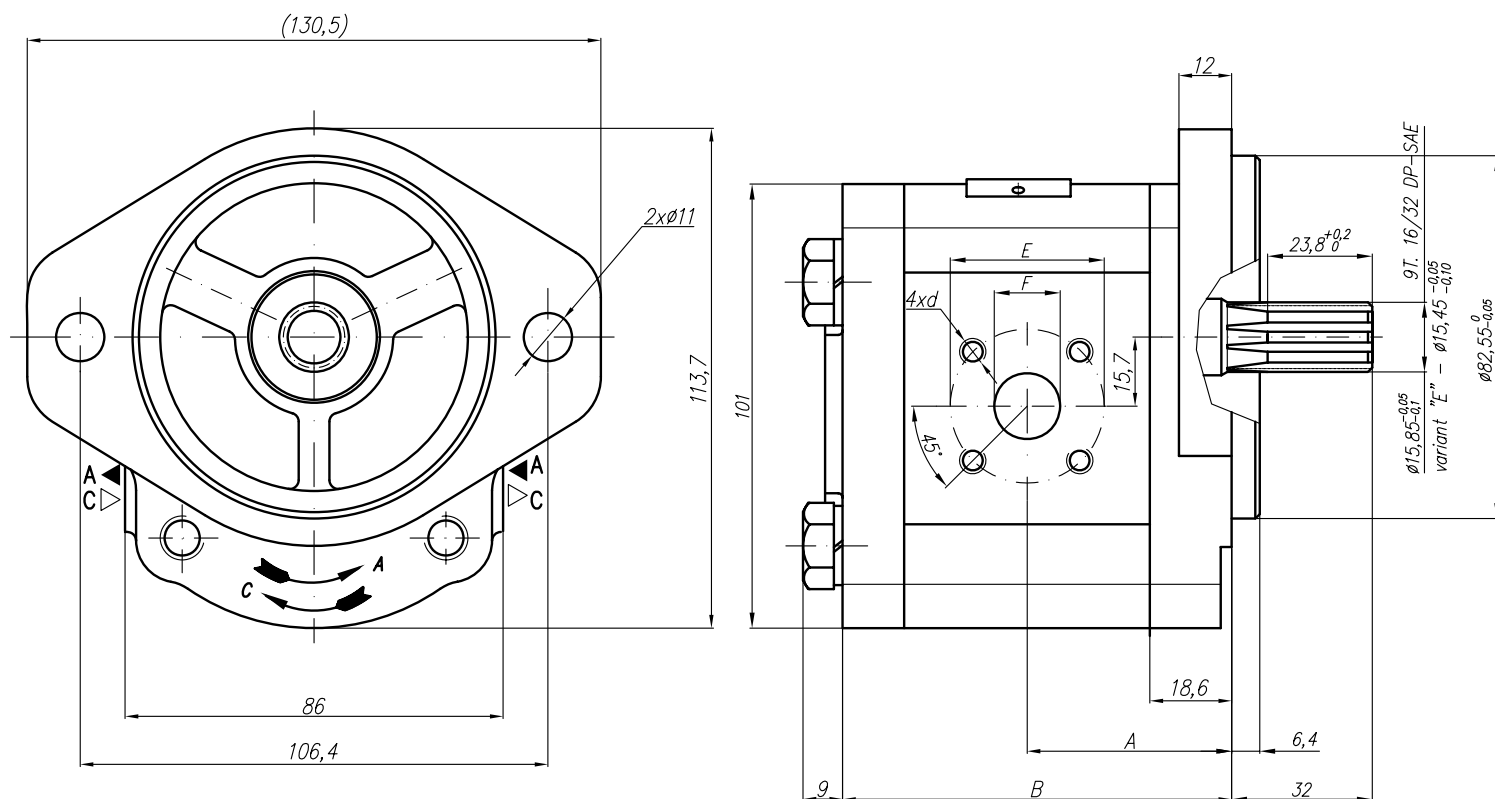


* These pressures recommended for direct drives with gear.

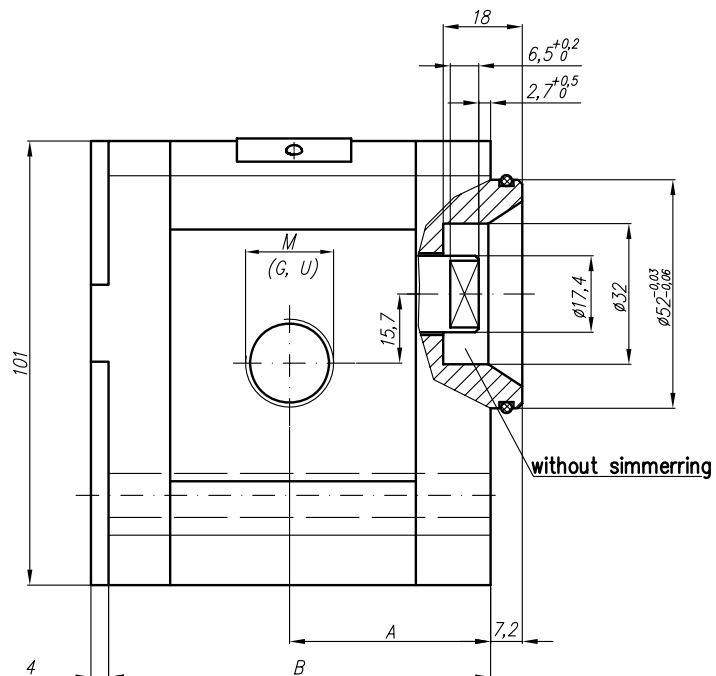
Type	Displacement	Flow		Pressure	max Speed	Dimension							
		at 1500 rpm	at max rpm			A	B	Inlet			Outlet		
	cm ³ /rev	l/min	l/min	P _{nom} bar	n rpm	mm	mm	E	F	d	M	G	U
20A(C)15X102	15	21,60	36,00	250(175*)	2500	51	96,9	40	19	M6-6H		G3/8	
20A(C)16X102	16	23,04	38,40	250(175*)	2500	51	98,5						
20A(C)25X102	25	36,00	48,00	160(100*)	2000	59,2	113,4						



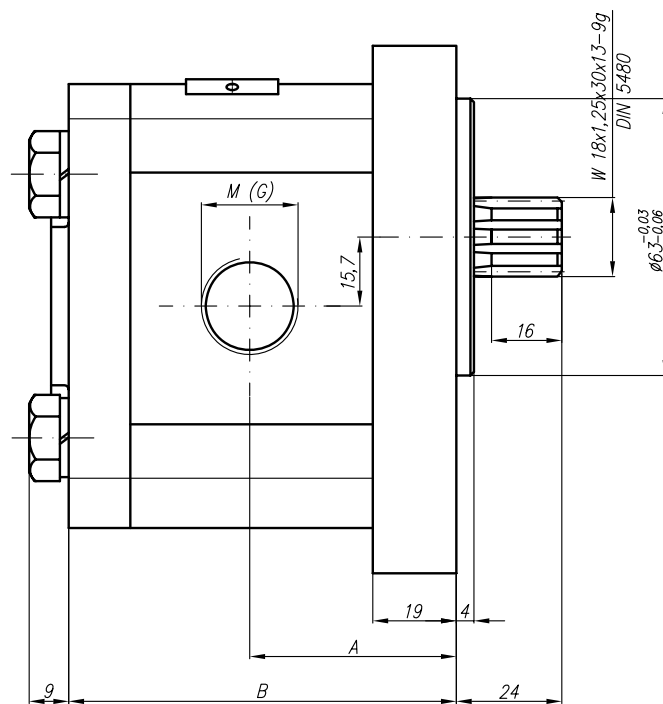
Type	Displacement	Flow		Pressure	max Speed	Dimension							
		at 1500 rpm	at max rpm			A	B	Inlet			Outlet		
	cm ³ /rev	l/min	l/min	P _{nom}	n	mm	mm	E	F	d	E	F	d
20A(C)4,5X103	4,5	6,14	14,33	250	3500								
20A(C)6,3X103	6,3	8,69	20,29	250	3500								
20A(C)8,2X103	8,2	11,32	26,40	250	3500								
20A(C)10X103	10	13,95	32,55	250	3500								
20A(C)11X103	11,3	15,76	36,78	250	3500	48	102						
20A(C)12X103	12	16,92	39,48	250	3500								
20A(C)14X103	14	19,95	46,55	250	3500								
20A(C)15X103	15	21,60	36,00	250	2500								
20A(C)16X103	16	23,04	38,40	250	2500								
20A(C)19X103	19	27,36	45,60	200	2500								
20A(C)22X103	22	31,68	42,24	180	2000								
20A(C)25X103	25	36,00	48,00	160	2000								



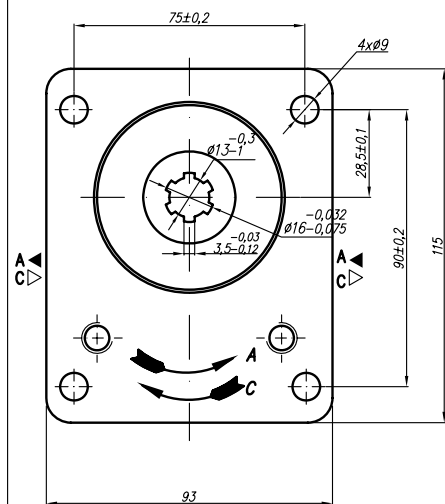
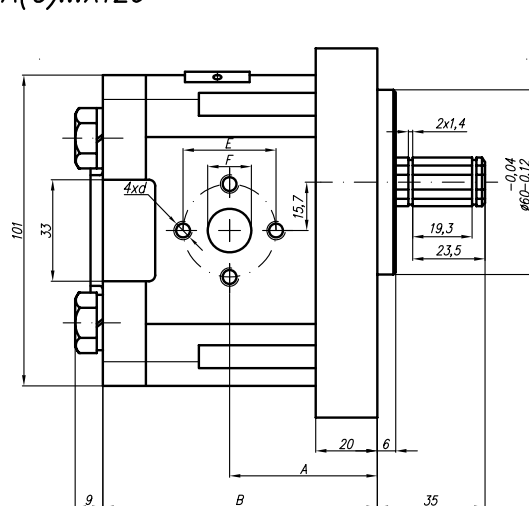
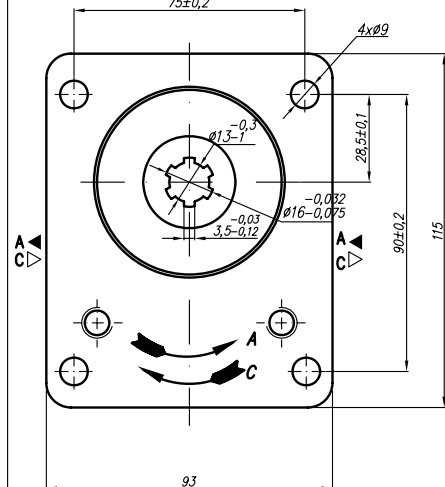
Type	Displacement	Flow		Pressure P _{nom}	max Speed n	Dimension							
		at 1500 rpm	at max rpm			A	B	Inlet			Outlet		
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	E	F	d	E	F	d
20A(C)4,5X104	4,5	6,14	14,33	250	3500	42	79,6	40	15	M6-6H	35	15	M6-6H
20A(C)6,3X104	6,3	8,69	20,29	250	3500	43,6	82,6						
20A(C)8,2X104	8,2	11,32	26,40	250	3500	45	85,6						
20A(C)10X104	10	13,95	32,55	250	3500	46,6	88,7						
20A(C)11X104	11,3	15,76	36,78	250	3500	47,6	90,7						
20A(C)12X104	12	16,92	39,48	250	3500	48,2	91,9						
20A(C)14X104	14	19,95	46,55	250	3500	49,6	95						
20A(C)15X104	15	21,60	36,00	250	2500	50,6	96,5						
20A(C)16X104	16	23,04	38,40	250	2500	51,6	98,2						
20A(C)19X104	19	27,36	45,60	200	2500	53,6	103,1						
20A(C)22X104	22	31,68	42,24	180	2000	56,6	108,1						
20A(C)25X104	25	36,00	48,00	160	2000	58,8	113						



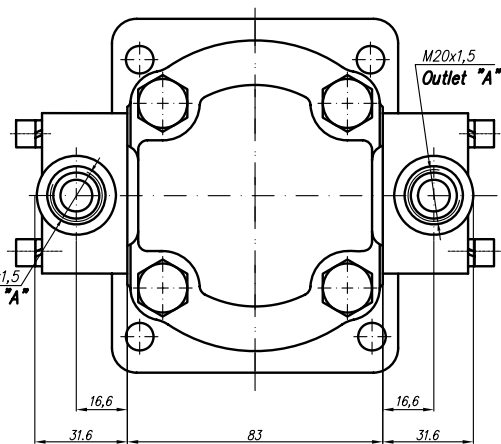
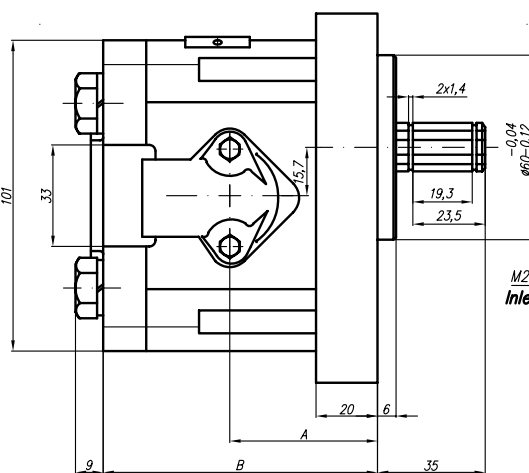
Type	Displacement	Flow		Pressure P _{nom}	max Speed n	Dimension							
		at 1500 rpm	at max rpm			A	B	Inlet			Outlet		
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	M	G	U	M	G	U
20A(C)4,5X110...	4,5	6,14	14,33	250	3500	40,5	78	M20x1,5	G1/2	1 1/16"-12UNF	M16x1,5	G1/2	7/8"-14UNF
20A(C)6,3X110...	6,3	8,69	20,29	250	3500	42	81						
20A(C)8,2X110...	8,2	11,32	26,40	250	3500	43,5	83,9						
20A(C)10X110...	10	13,95	32,55	250	3500	45	87						
20A(C)11X110...	11,3	15,76	36,78	250	3500	46	89						
20A(C)12X110...	12	16,92	39,48	250	3500	46,5	90,3						
20A(C)14X110...	14	19,95	46,55	250	3500	48	93,4		G3/4				
20A(C)15X110...	15	21,60	36,00	250	2500	49	95						
20A(C)16X110...	16	23,04	38,40	250	2500	50	96,5						
20A(C)19X110...	19	27,36	45,60	200	2500	52	101,5						
20A(C)22X110...	22	31,68	42,24	180	2000	55	106,5						
20A(C)25X110...	25	36,00	48,00	160	2000	57,2	111,4				M20x1,5		



Type	Displacement	Flow		Pressure P _{nom}	max Speed n	Dimension														
		at 1500 rpm	at max rpm			A	B	Inlet			Outlet									
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	M	G	U	M	G	U							
20A(C)4,5X114...	4,5	6,14	14,33	250	3500	42,5	80	M18x1,5	G1/2		M14x1,5									
20A(C)6,3X114...	6,3	8,69	20,29	250	3500	42,5	80													
20A(C)8,2X114...	8,2	11,32	26,40	250	3500	42,5	80													
20A(C)10X114...	10	13,95	32,55	250	3500	47	89	M22x1,5	G3/4		M18x1,5			G1/2						
20A(C)11X114...	11,3	15,76	36,78	250	3500	48,6	91,1													
20A(C)12X114...	12	16,92	39,48	250	3500	49	92,3	M27x2												
20A(C)14X114...	14	19,95	46,55	250	3500	49	95,4													
20A(C)15X114...	15	21,60	36,00	250	2500	49,5	96,9													
20A(C)16X114...	16	23,04	38,40	250	2500	52	98,6													
20A(C)19X114...	19	27,36	45,60	200	2500	53	103,5													
20A(C)22X114...	22	31,68	42,24	180	2000	57	108,5													
20A(C)25X114...	25	36,00	48,00	160	2000	59,2	113,4													

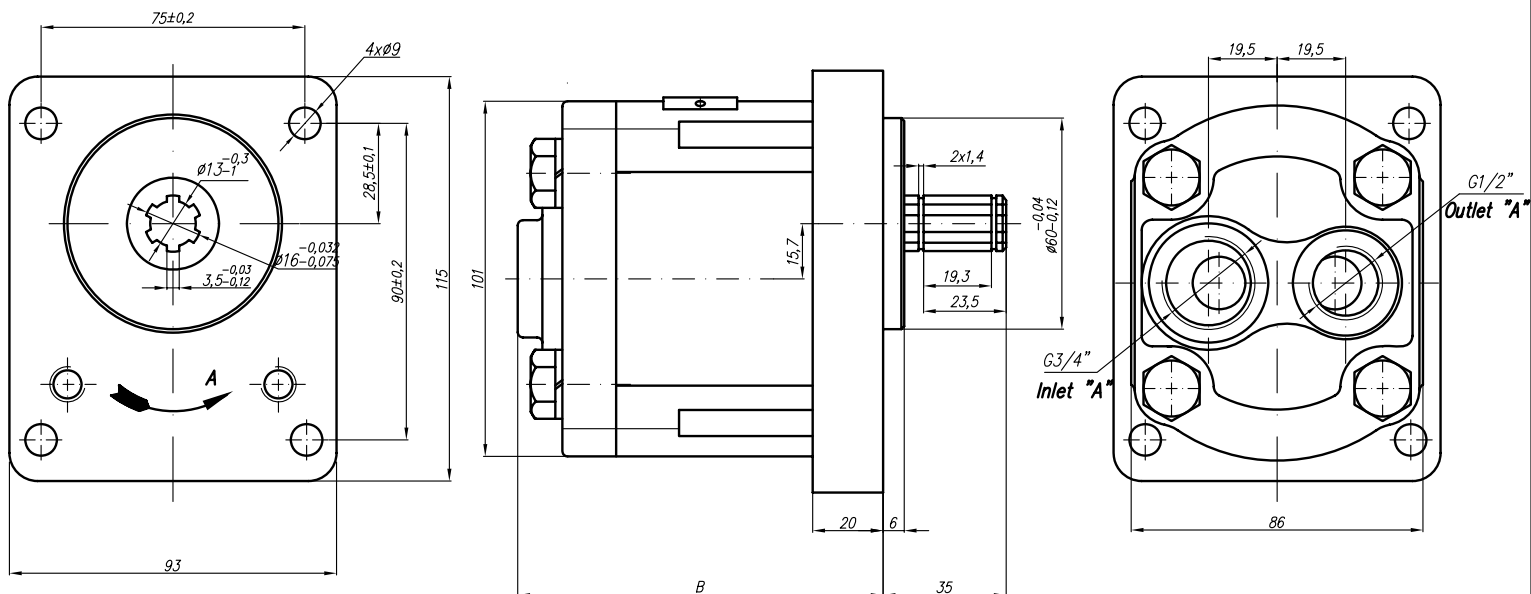


20A(C)...X126K

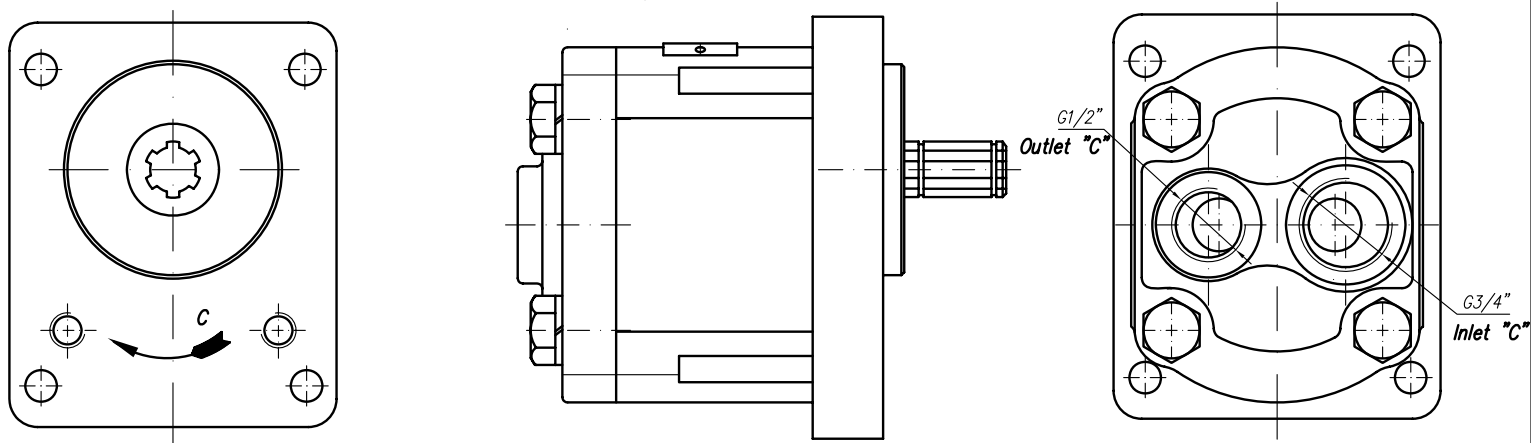


Type	Displacement cm ³ /rev	Flow		Pressure P _{nom} bar	max Speed n rpm	Dimension							
		at 1500 rpm l/min	at max rpm l/min			A mm	B mm	Inlet			Outlet		
20A(C)6,3X126	6,3	8,69	20,29	250	3500	48	84	30,2	13	M6	30,2	13	M6
20A(C)8,2X126	8,2	11,32	26,40	250	3500	48	87	30,2	13	M6	30,2	13	M6
20A(C)10X126	10	13,95	32,55	250	3500	48	90	30,2	13	M6	30,2	13	M6
20A(C)11X126	11,3	15,76	36,78	250	3500	48	92	30,2	13	M6	30,2	13	M6
20A(C)14X126	14	19,95	46,55	250	3500	48	96,5	30,2	13	M6	30,2	13	M6
20A(C)16X126	16	23,04	38,40	250	2500	48	99,5	30,2	13	M6	30,2	13	M6
20A(C)19X126	19	27,36	45,60	200	2500	55,3	104,5	30,2	13	M6	30,2	13	M6
20A(C)22X126	22	31,68	42,24	180	2000	57,8	109,5	30,2	13	M6	30,2	13	M6
20A(C)6,3X126K	6,3	8,69	20,29	250	3500	48	84	30,2	13	M6	30,2	13	M6
20A(C)8,2X126K	8,2	11,32	26,40	250	3500	48	87	30,2	13	M6	30,2	13	M6
20A(C)10X126K	10	13,95	32,55	250	3500	48	90	30,2	13	M6	30,2	13	M6
20A(C)11X126K	11,3	15,76	36,78	250	3500	48	92	30,2	13	M6	30,2	13	M6
20A(C)14X126K	14	19,95	46,55	250	3500	48	96,5	30,2	13	M6	30,2	13	M6
20A(C)16X126K	16	23,04	38,40	250	2500	48	99,5	30,2	13	M6	30,2	13	M6
20A(C)19X126K	19	27,36	45,60	200	2500	55,3	104,5	30,2	13	M6	30,2	13	M6
20A(C)22X126K	22	31,68	42,24	180	2000	57,8	109,5	30,2	13	M6	30,2	13	M6

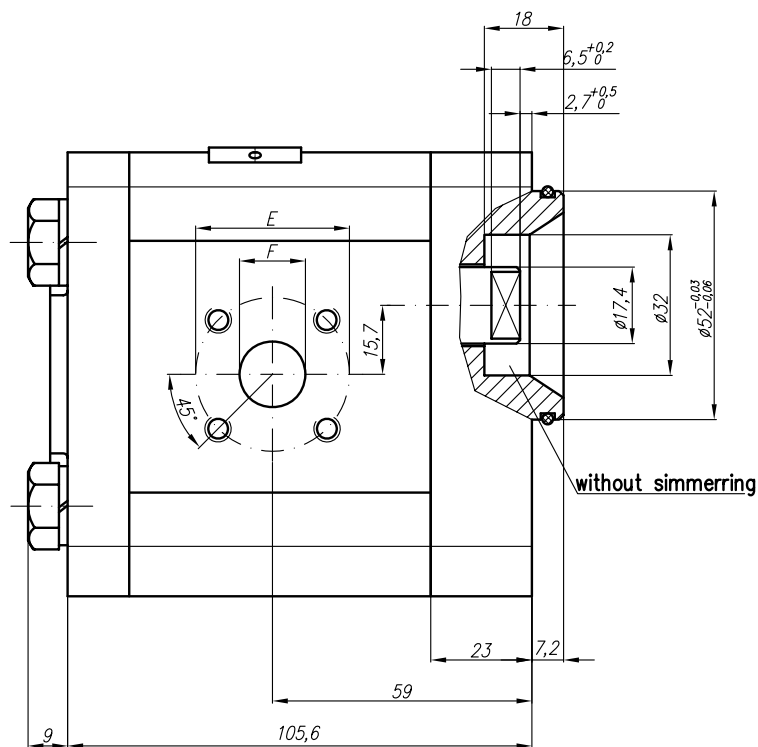
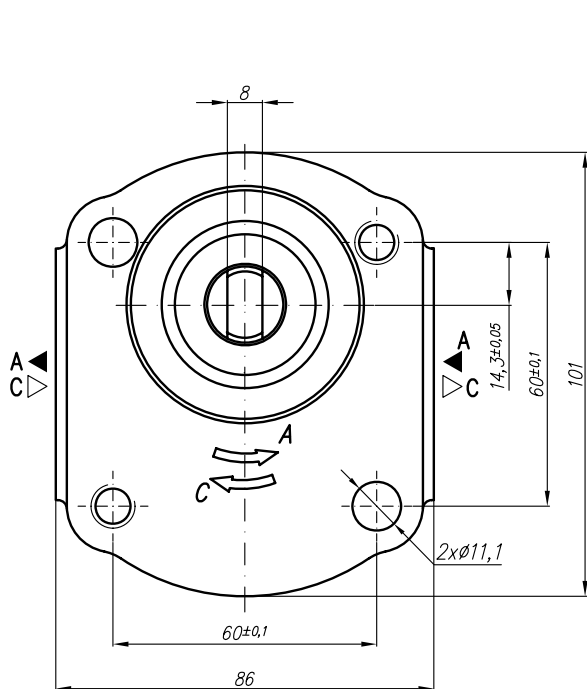
Rotation "A"



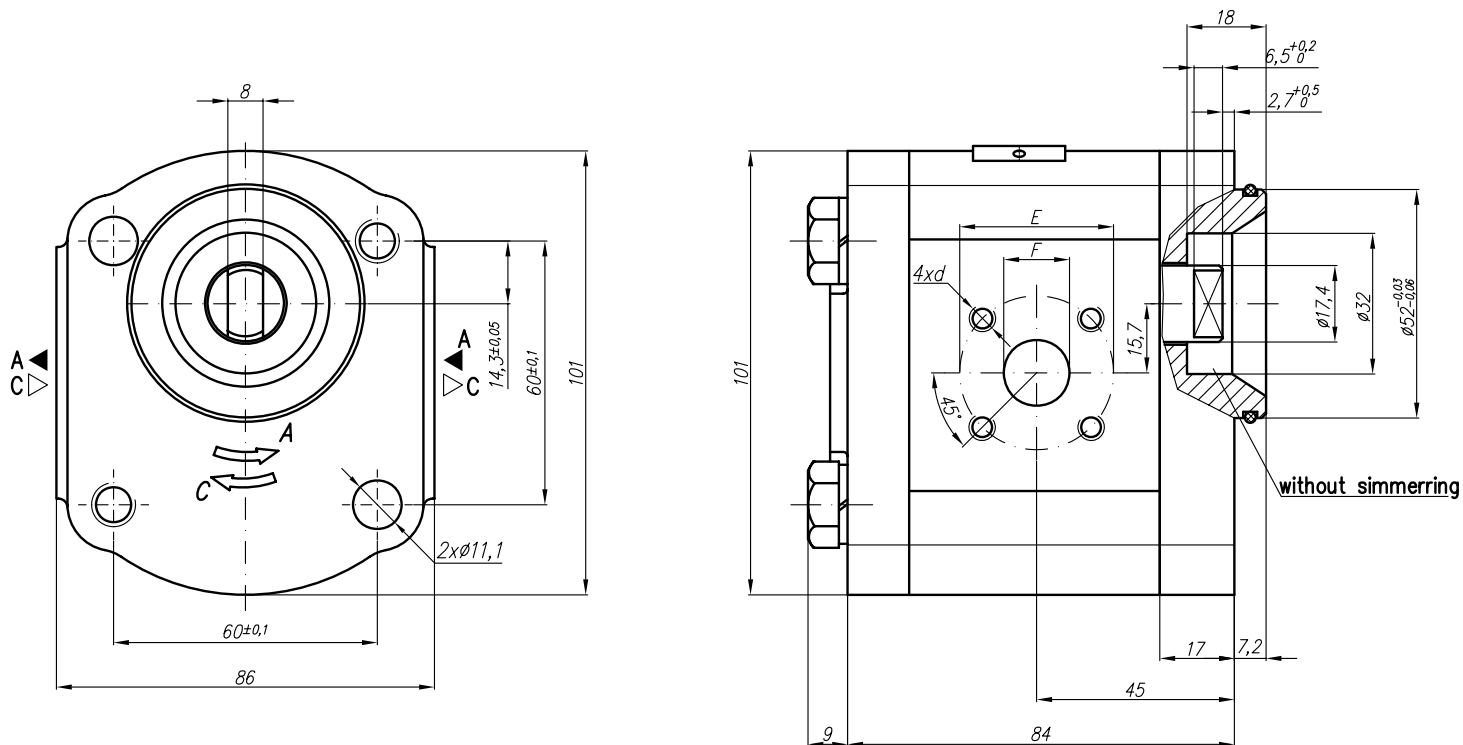
Rotation "C"



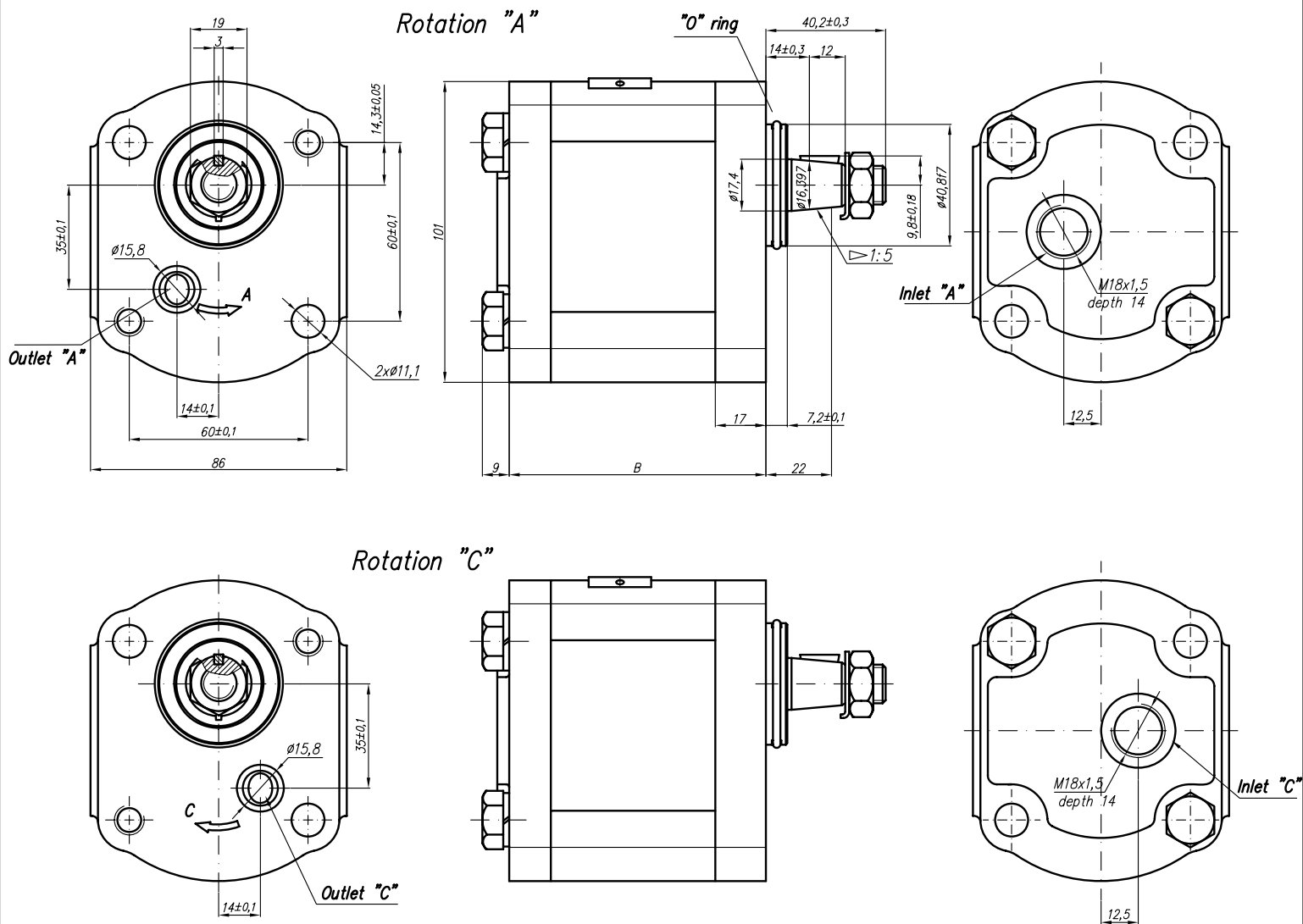
Type	Displacement	Flow		Pressure	max Speed	Dimension						
		at 1500 rpm	at max rpm			A	B	Inlet		Outlet		
	cm ³ /rev	l/min	l/min	P _{nom}	n	mm	mm		G		G	
20A(C)6,3X126W	6,3	8,69	20,29	250	3500		98					
20A(C)8,2X126W	8,2	11,32	26,40	250	3500		100,9					
20A(C)10X126W	10	13,95	32,55	250	3500		103,9					
20A(C)11X126W	11,3	15,76	36,78	250	3500		106					
20A(C)14X126W	14	19,95	46,55	250	3500		110,4					
20A(C)16X126W	16	23,04	38,40	250	2500		113,5					
20A(C)19X126W	19	27,36	45,60	200	2500		118,5					
20A(C)22X126W	22	31,68	42,24	180	2000		123,5					



Type	Displacement	Flow		Pressure P _{nom}	max Speed n	Dimension							
		at 1500 rpm	at max rpm			A	B	Inlet			Outlet		
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	E	F	d	E	F	d
20A(C)11X127	16	23,04	53,76	250	3500	59	105,6	40	20	M6	35	15	M6

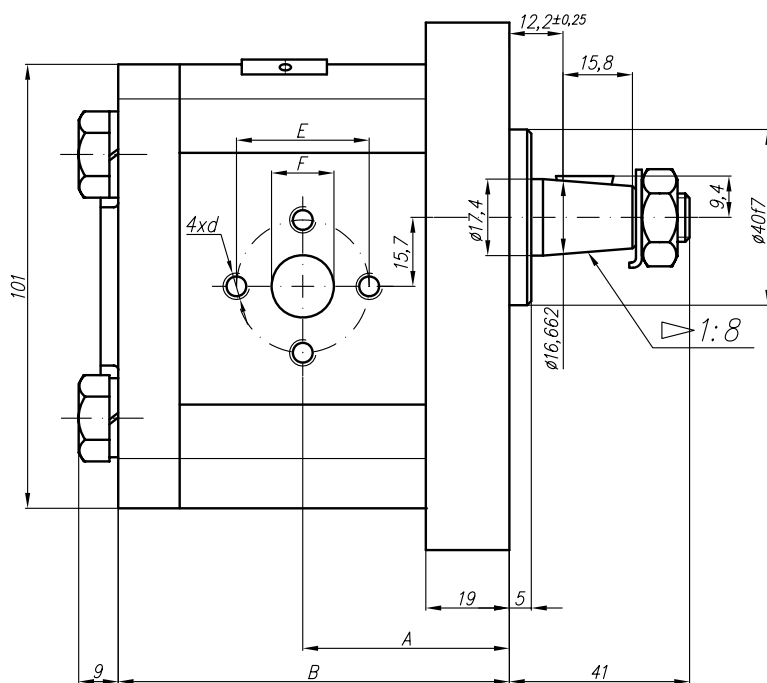


Type	Displacement	Flow		Pressure	max Speed	Dimension							
		at 1500 rpm	at max rpm			A	B	Inlet			Outlet		
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	E	F	d	E	F	d
20A(C)11X128	11,3	15,76	36,78	250	3500	45	84	40	20	M6	35	15	M6

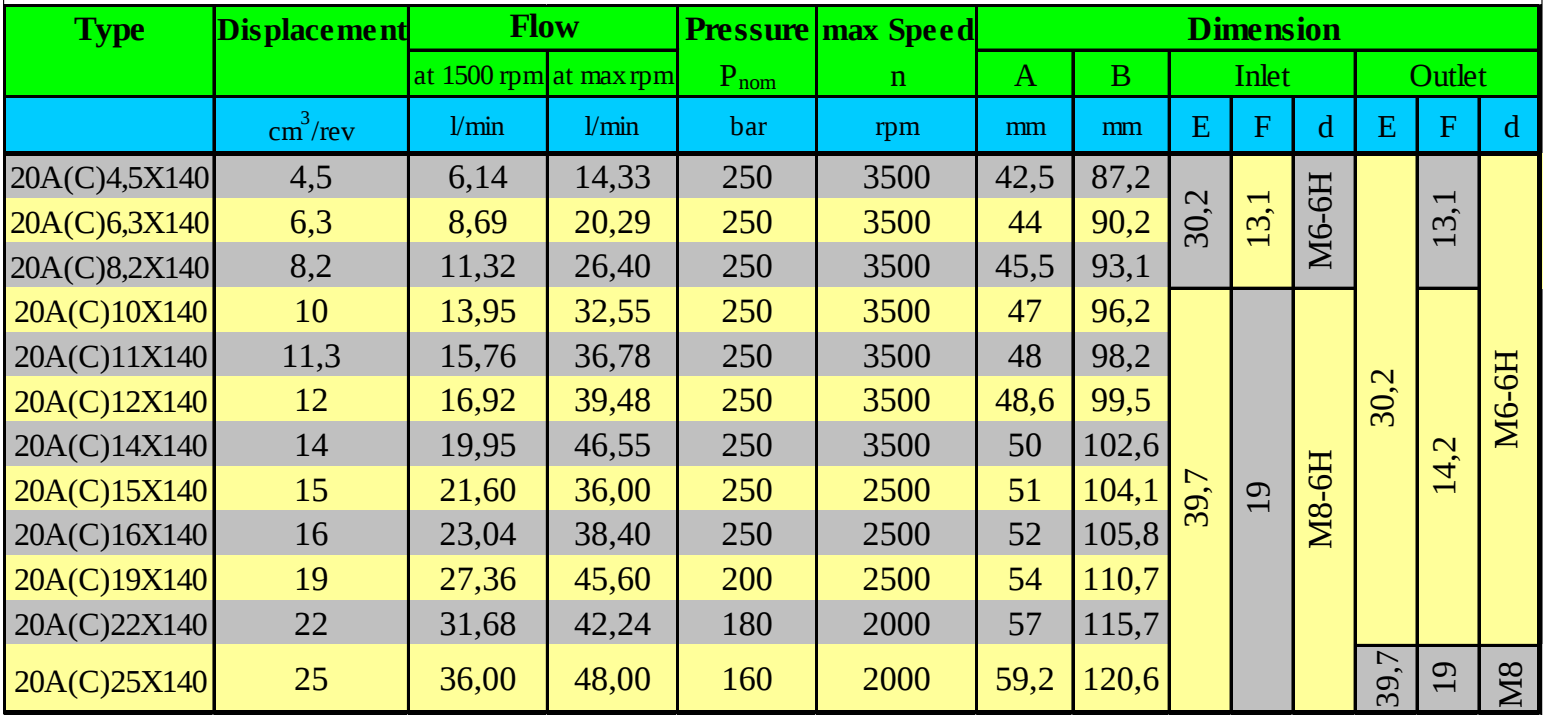


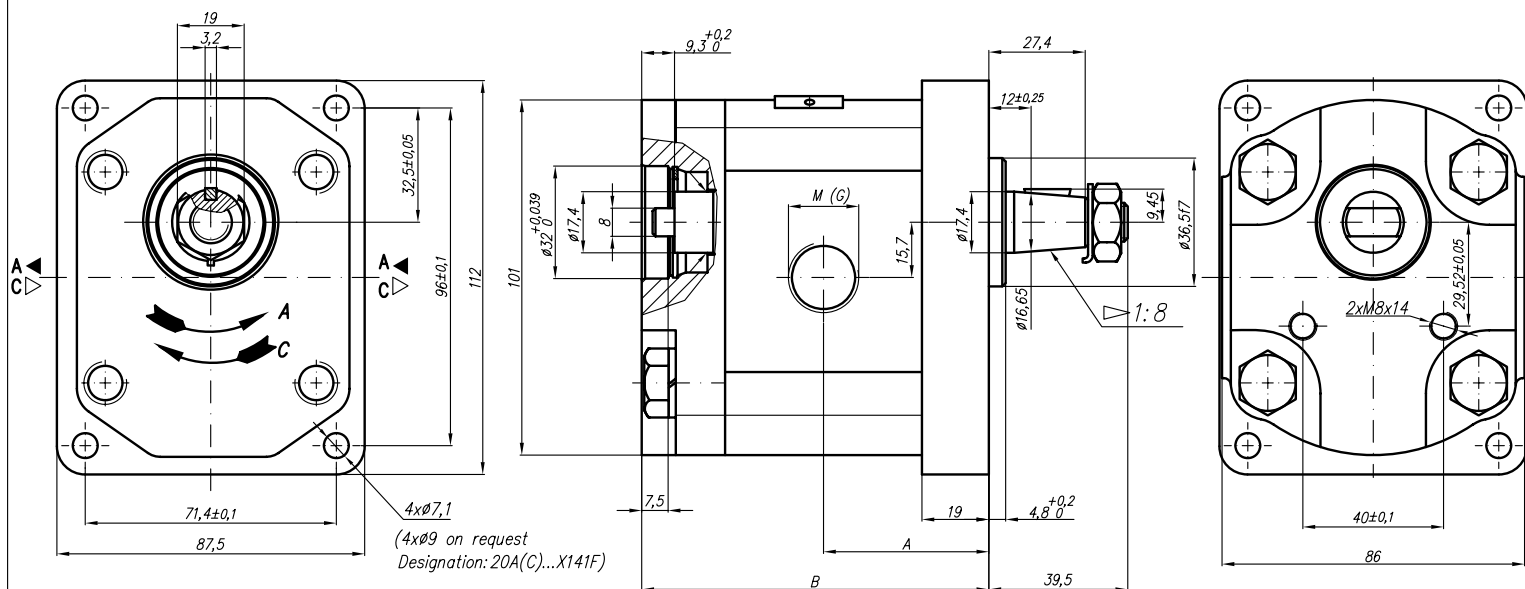
* It's required inlet overpresure 0,2...0,3 bar at max speed.

Type	Displacement cm ³ /rev	Flow		Pressure P _{nom} bar	max Speed n* rpm	Dimension						
		at 1500 rpm l/min	at max rpm l/min			A mm	B mm	Inlet			Outlet	
								M	G	U		
20A(C)4,5X132	4,5	6,14	14,33	250	3500		75,1	M18x1,5			Ø15,9	
20A(C)6,3X132	6,3	8,69	20,29	250	3500		78					
20A(C)8,2X132	8,2	11,32	26,40	250	3500		78					
20A(C)10X132	10	13,95	32,55	250	3500		87					
20A(C)11X132	11,3	15,76	36,78	250	3500		89,1					
20A(C)12X132	12	16,92	39,48	250	3500		90,3					
20A(C)14X132	14	19,95	46,55	250	3500		93,4					
20A(C)15X132	15	21,60	36,00	250	2500		94,9					
20A(C)16X132	16	23,04	38,40	250	2500		96,5					
20A(C)19X132	19	27,36	45,60	200	2500		101,5					
20A(C)22X132	22	31,68	42,24	180	2000		106,5					
20A(C)25X132	25	36,00	48,00	160	2000		111,4					

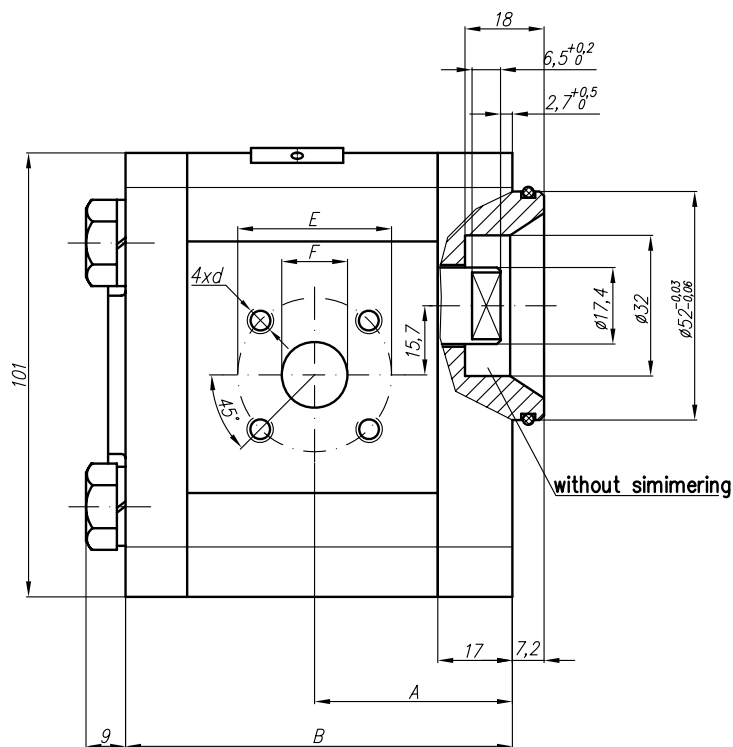


Type	Displacement	Flow		Pressure P _{nom}	max Speed n	Dimension									
		at 1500 rpm	at max rpm			A	B	Inlet			Outlet				
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	E	F	d	E	F	d		
20A(C)4,5X139	4,5	6,14	14,33	250	3500	42,5	80	30,2	13,1	M6-6H	30,2	13,1	M6-6H		
20A(C)6,3X139	6,3	8,69	20,29	250	3500	44	83								
20A(C)8,2X139	8,2	11,32	26,40	250	3500	45,5	86								
20A(C)10X139	10	13,95	32,55	250	3500	47	89	39,7	19	M8-6H		30,2		14,2	M6-6H
20A(C)11X139	11,3	15,76	36,78	250	3500	48	91,1								
20A(C)12X139	12	16,92	39,48	250	3500	48,6	92,3								
20A(C)14X139	14	19,95	46,55	250	3500	50	95,4								
20A(C)15X139	15	21,60	36,00	250	2500	51	96,9								
20A(C)16X139	16	23,04	38,40	250	2500	52	98,6								
20A(C)19X139	19	27,36	45,60	200	2500	54	103,5								
20A(C)22X139	22	31,68	42,24	180	2000	57	108,5								
20A(C)25X139	25	36,00	48,00	160	2000	59,2	113,4								



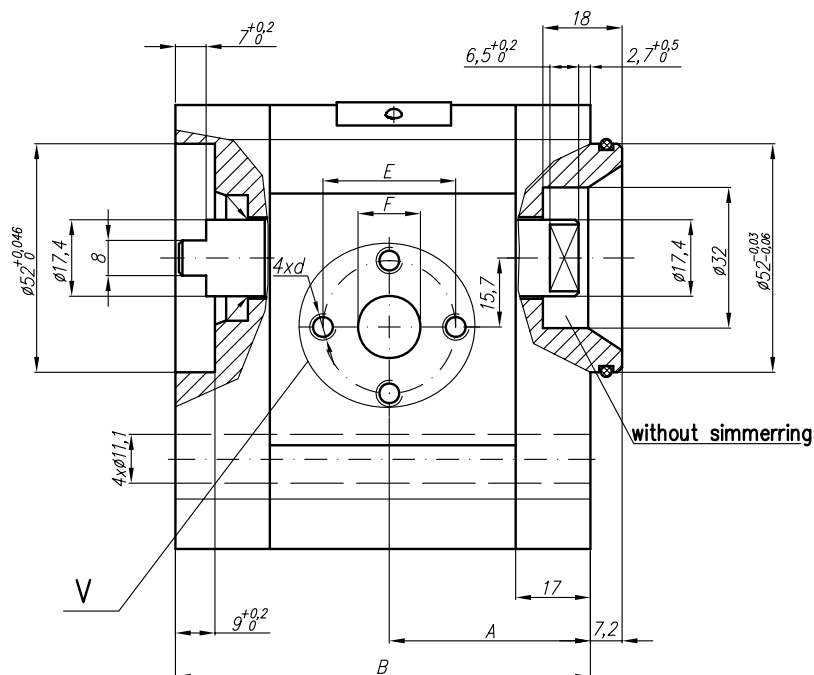
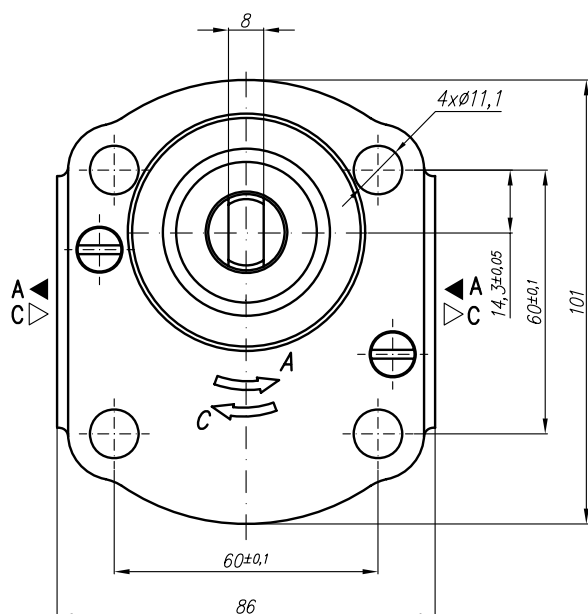


Type	Displacement	Flow		Pressure P _{nom}	max Speed n	Dimension							
		at 1500 rpm	at max rpm			A	B	Inlet			Outlet		
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	M	G	U	M	G	U
20A(C)4,5X141...	4,5	6,14	14,33	250	3500	42,5	89,7	M20x1,5	G1/2		M16x1,5		
20A(C)6,3X141...	6,3	8,69	20,29	250	3500	44	92,7						
20A(C)8,2X141...	8,2	11,32	26,40	250	3500	45,5	95,6						
20A(C)10X141...	10	13,95	32,55	250	3500	47	98,7		G3/4				
20A(C)11X141...	11,3	15,76	36,78	250	3500	48	100,7						
20A(C)12X141...	12	16,92	39,48	250	3500	48,6	102						
20A(C)14X141...	14	19,95	46,55	250	3500	50	105,1						
20A(C)15X141...	15	21,60	36,00	250	2500	51	106,6						
20A(C)16X141...	16	23,04	38,40	250	2500	52	108,3						
20A(C)19X141...	19	27,36	45,60	200	2500	54	113,2						
20A(C)22X141...	22	31,68	42,24	180	2000	57	118,2						
20A(C)25X141...	25	36,00	48,00	160	2000	59,2	123,1						



Type	Displacement	Flow		Pressure P _{nom}	max Speed n	Dimension							
		at 1500 rpm	at max rpm			A	B	Inlet			Outlet		
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	E	F	d	E	F	d
20A(C)4,5X147	4,5	6,14	14,33	250	3500	37,3	78	40	15	M6-6H	35	15	M6-6H
20A(C)6,3X147	6,3	8,69	20,29	250	3500	38,6	81		20				
20A(C)8,2X147	8,2	11,32	26,40	250	3500	40,6	83,9						
20A(C)10X147	10	13,95	32,55	250	3500	45	87						
20A(C)11X147	11,3	15,76	36,78	250	3500	45	89,1						
20A(C)12X147	12	16,92	39,48	250	3500	45	90,3						
20A(C)14X147	14	19,95	46,55	250	3500	45	93,4						
20A(C)15X147	15	21,60	36,00	250	2500	45	94,9						
20A(C)16X147	16	23,04	38,40	250	2500	45	96,5						
20A(C)19X147	19	27,36	45,60	200	2500	45	101,5						
20A(C)22X147	22	31,68	42,24	180	2000	52,5	106,5						
20A(C)25X147	25	36,00	48,00	160	2000	57,2	111,4						

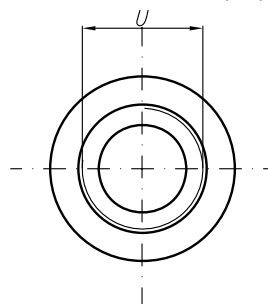
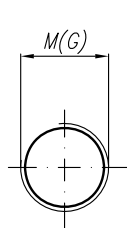
Designed as a middle section of multiple pumps group 222A(C).../...X156/...



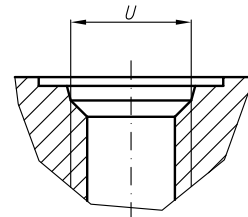
V
 Variants for ports – M;G;U

Designations:

- ...X156 – Normal version (flanges);
- ...X156M – Metric threads;
- ...X156G – GAS threads;
- ...X156U – SAE threads;



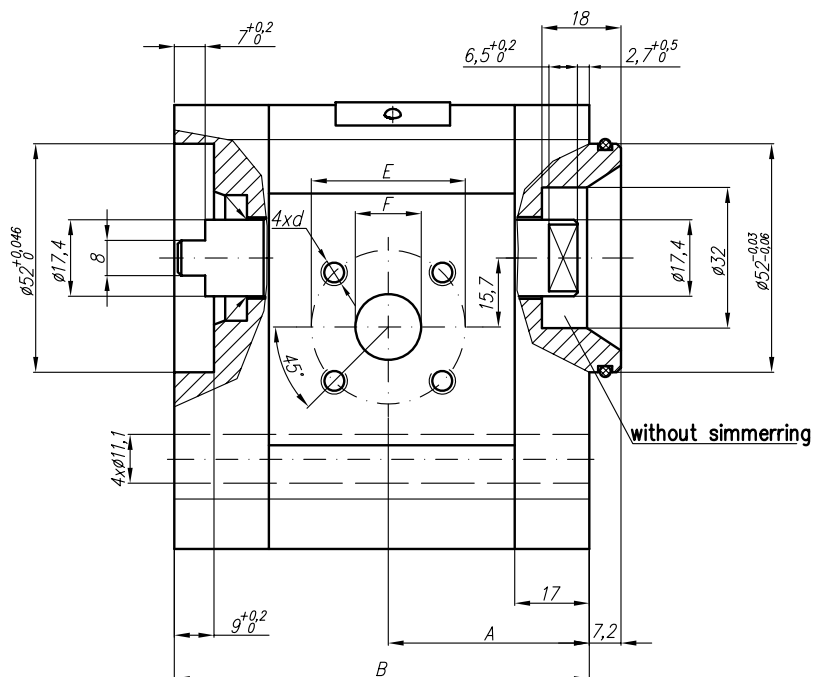
SAE J475 (ISO R725)



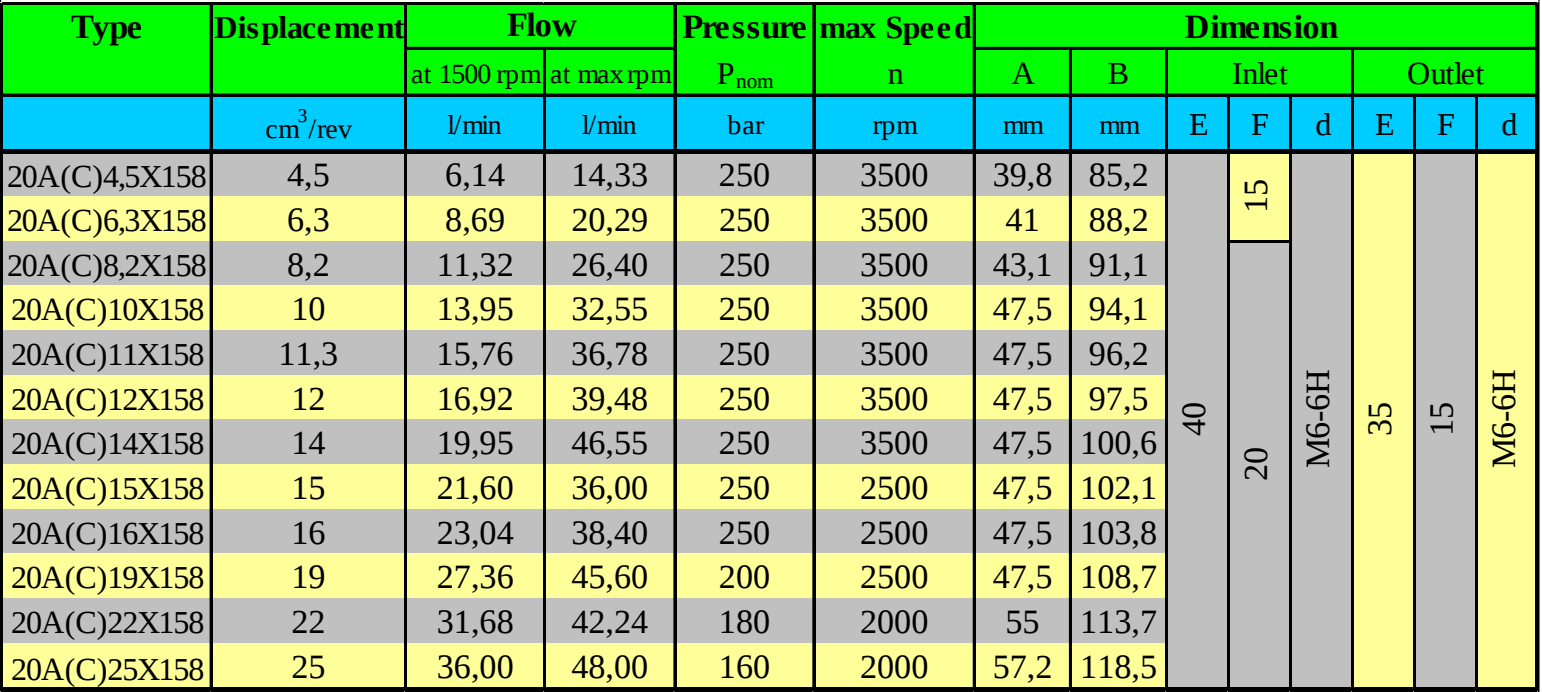
Type	Displacement	Flow		Pressure P _{nom}	max Speed n	Dimension																			
		at 1500 rpm	at max rpm			A	B	Inlet				Outlet													
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	E	F	d	M	G	U	E	F	d	M	G	U						
20A(C)4,5X156...	4,5	6,14	14,33	250	3500	40,5	85,2	30,2	13,1	M6-6H	M20x1,5	G1/2	1	1/16"-12UNF	30,2	13,1	M6-6H	M16x1,5	G1/2	7/8"-14UNF					
20A(C)6,3X156...	6,3	8,69	20,29	250	3500	42	88,2																		
20A(C)8,2X156...	8,2	11,32	26,40	250	3500	43,5	91,1																		
20A(C)10X156...	10	13,95	32,55	250	3500	45	94,1																		
20A(C)11X156...	11,3	15,76	36,78	250	3500	46	96,2																		
20A(C)12X156...	12	16,92	39,48	250	3500	46,6	97,5																		
20A(C)14X156...	14	19,95	46,55	250	3500	48	100,6					39,7				19		M8-6H			G3/4	30,2	14,2	M6-6H	M20x1,5
20A(C)15X156...	15	21,60	36,00	250	2500	49	102,1																		
20A(C)16X156...	16	23,04	38,40	250	2500	50	103,8																		
20A(C)19X156...	19	27,36	45,60	200	2500	52	108,7																		
20A(C)22X156...	22	31,68	42,24	180	2000	55	113,7																		
20A(C)25X156...	25	36,00	48,00	160	2000	57,2	118,5																		

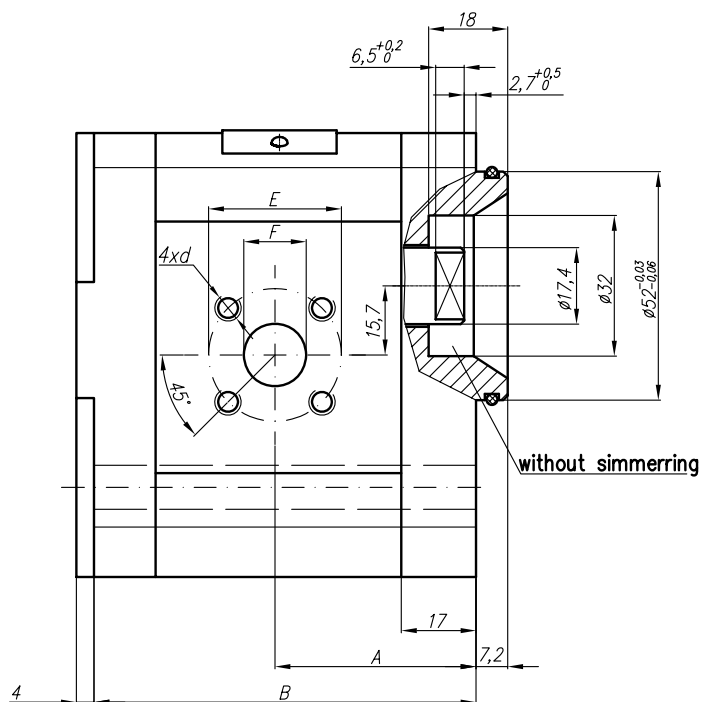
Technical drawing of a circular mechanical part. The drawing shows a top view with a central circular feature and four mounting holes. The dimensions are as follows:

- Overall diameter: 101
- Distance between mounting holes (center-to-center): 86
- Distance from center to mounting hole center: $60 \pm 0,1$
- Mounting hole diameter: $4 \times \varnothing 11,1$
- Central feature diameter: 8
- Distance from center to central feature center: $14,3 \pm 0,05$
- Surface texture symbols: A (roughness) and C (roughness) are indicated on the mounting holes and the central feature.

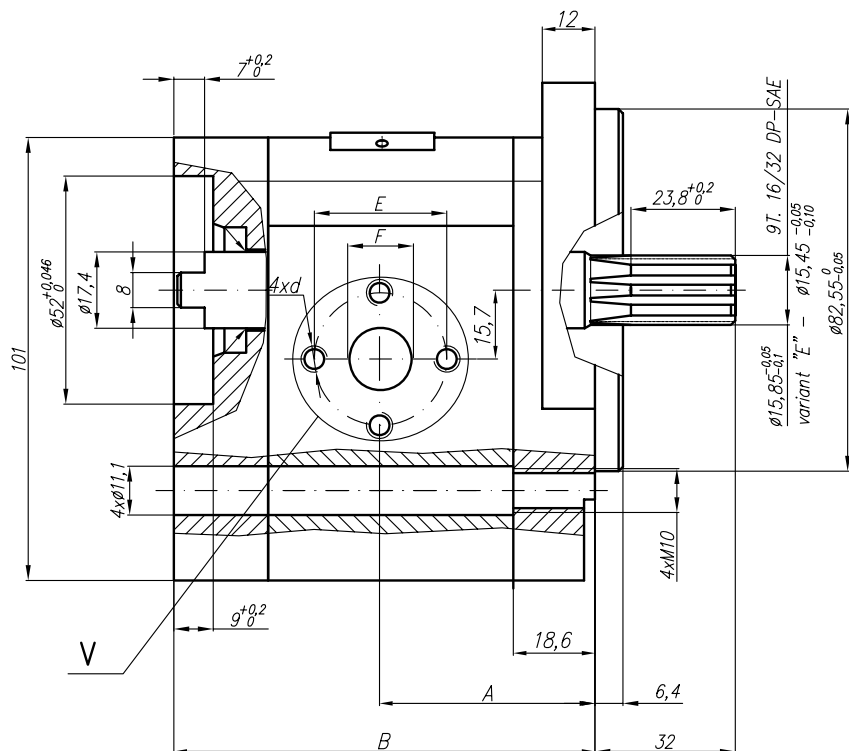


Type	Displacement	Flow		Pressure P _{nom}	max Speed n	Dimension							
		at 1500 rpm	at max rpm			A	B	Inlet			Outlet		
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	E	F	d	E	F	d
20A(C)4,5X156B	4,5	6,14	14,33	250	3500	40,5	85,2	40	15	M6-6H	35	15	M6-6H
20A(C)6,3X156B	6,3	8,69	20,29	250	3500	42	88,2		20				
20A(C)8,2X156B	8,2	11,32	26,40	250	3500	43,5	91,1						
20A(C)10X156B	10	13,95	32,55	250	3500	45	94,1						
20A(C)11X156B	11,3	15,76	36,78	250	3500	46	96,2						
20A(C)12X156B	12	16,92	39,48	250	3500	46,6	97,5						
20A(C)14X156B	14	19,95	46,55	250	3500	48	100,6						
20A(C)15X156B	15	21,60	36,00	250	2500	49	102,1						
20A(C)16X156B	16	23,04	38,40	250	2500	50	103,8						
20A(C)19X156B	19	27,36	45,60	200	2500	52	108,7						
20A(C)22X156B	22	31,68	42,24	180	2000	55	113,7						
20A(C)25X156B	25	36,00	48,00	160	2000	57,2	118,5						

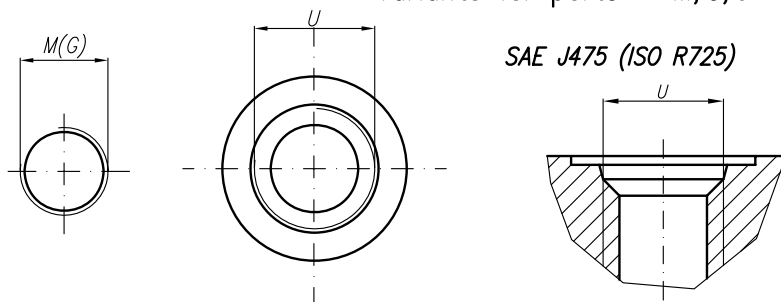




Type	Displacement	Flow		Pressure P _{nom}	max Speed n	Dimension							
		at 1500 rpm	at max rpm			A	B	Inlet			Outlet		
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	E	F	d	E	F	d
20A(C)4,5X161	4,5	6,14	14,33	250	3500	39,8	78	40	15	M6-6H	35	15	M6-6H
20A(C)6,3X161	6,3	8,69	20,29	250	3500	41	81		20				
20A(C)8,2X161	8,2	11,32	26,40	250	3500	43,1	83,9						
20A(C)10X161	10	13,95	32,55	250	3500	47,5	87						
20A(C)11X161	11,3	15,76	36,78	250	3500	47,5	89,1						
20A(C)12X161	12	16,92	39,48	250	3500	47,5	90,3						
20A(C)14X161	14	19,95	46,55	250	3500	47,5	93,4						
20A(C)15X161	15	21,60	36,00	250	2500	47,5	94,9						
20A(C)16X161	16	23,04	38,40	250	2500	47,5	96,5						
20A(C)19X161	19	27,36	45,60	200	2500	47,5	101,5						
20A(C)22X161	22	31,68	42,24	180	2000	55	106,5						
20A(C)25X161	25	36,00	48,00	160	2000	57,2	111,4						

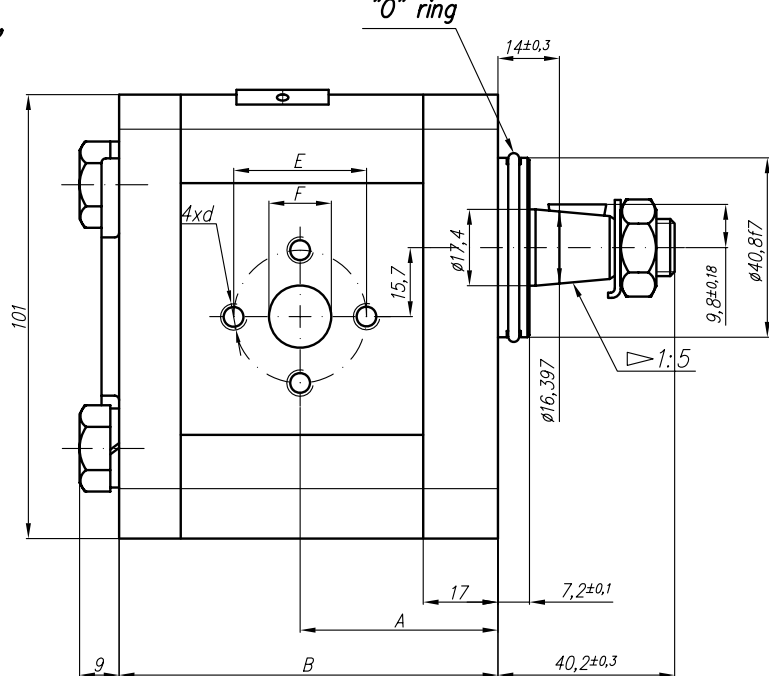
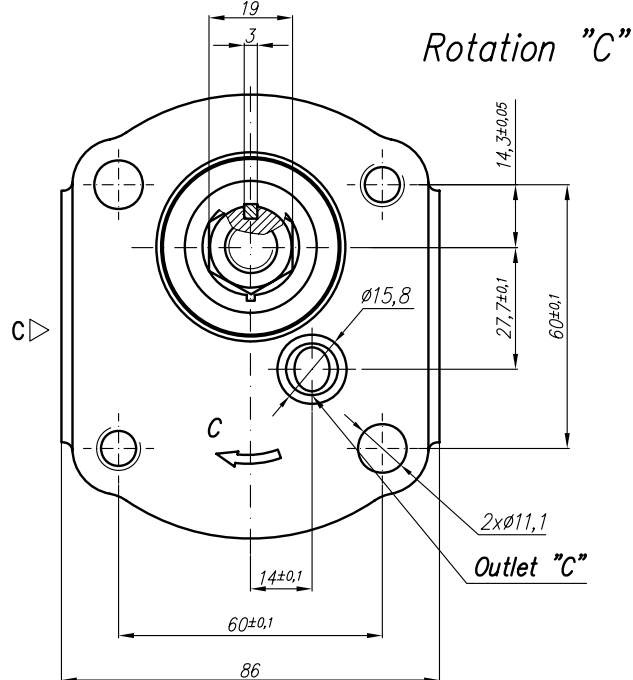


SAE J475 (ISO R725)

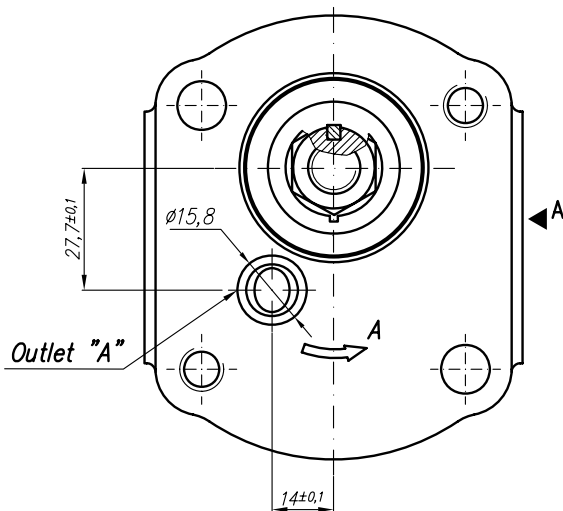
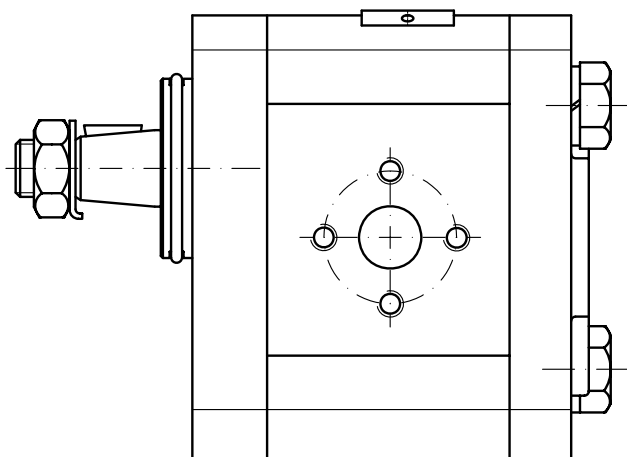


- ...X167 – Normal version (flanges);
- ...X167M – Metric threads;
- ...X167G – GAS threads;
- ...X167U – SAE threads;

Type	Displacement	Flow		Pressure P _{nom}	max Speed n	Dimension																			
		at 1500 rpm	at max rpm			A	B	Inlet				Outlet													
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	E	F	d	M	G	U	E	F	d	M	G	U						
20A(C)4,5X167...	4,5	6,14	14,33	250	3500	42,1	86,8	30,2	13,1	M6-6H	M20x1,5	G1/2	1 1/16"-12UNF	30,2	13,1	M6-6H	M16x1,5	G1/2	7/8"-14UNF						
20A(C)6,3X167...	6,3	8,69	20,29	250	3500	42,1	86,8																		
20A(C)8,2X167...	8,2	11,32	26,40	250	3500	42,1	86,8	39,7	19	M8-6H		G3/4			1 1/16"-12UNF					30,2	14,2	M6-6H	M20x1,5	G1/2	7/8"-14UNF
20A(C)10X167...	10	13,95	32,55	250	3500	46,6	95,8																		
20A(C)11X167...	11,3	15,76	36,78	250	3500	47,6	97,9					39,7											19		
20A(C)12X167...	12	16,92	39,48	250	3500	48,2	99,1																		
20A(C)14X167...	14	19,95	46,55	250	3500	49,6	102,1	39,7	19	M8-6H	G3/4	1 1/16"-12UNF	30,2	14,2	M6-6H	M20x1,5	G1/2	7/8"-14UNF							
20A(C)15X167...	15	21,60	36,00	250	2500	50,6	103,7																		
20A(C)16X167...	16	23,04	38,40	250	2500	51,6	105,3	39,7	19	M8-6H	G3/4	1 1/16"-12UNF	30,2	14,2	M6-6H	M20x1,5	G1/2	7/8"-14UNF							
20A(C)19X167...	19	27,36	45,60	200	2500	53,6	110,3																		
20A(C)22X167...	22	31,68	42,24	180	2000	56,6	115,3	39,7	19	M8-6H	G3/4	1 1/16"-12UNF	30,2	14,2	M6-6H	M20x1,5	G1/2	7/8"-14UNF							
20A(C)25X167...	25	36,00	48,00	160	2000	58,8	120,2																		



Rotation "A"



Type	Displacement	Flow		Pressure	max Speed	Dimension							
		at 1500 rpm	at max rpm			P _{nom}	n	A	B	Inlet			Outlet
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	E	F	d			
20A(C)4,5X170	4,5	6,14	14,33	250	3500	40,5	78	30,2	13,1	M6-6H		Ø15,8	
20A(C)6,3X170	6,3	8,69	20,29	250	3500	42	81						
20A(C)8,2X170	8,2	11,32	26,40	250	3500	43,5	83,9						
20A(C)10X170	10	13,95	32,55	250	3500	45	87	39,7	19	M8-6H			
20A(C)11X170	11,3	15,76	36,78	250	3500	46	89,1						
20A(C)12X170	12	16,92	39,48	250	3500	46,6	90,3						
20A(C)14X170	14	19,95	46,55	250	3500	48	93,4						
20A(C)15X170	15	21,60	36,00	250	2500	49	94,9						
20A(C)16X170	16	23,04	38,40	250	2500	50	96,6						
20A(C)19X170	19	27,36	45,60	200	2500	52	101,5						
20A(C)22X170	22	31,68	42,24	180	2000	55	106,5						
20A(C)25X170	25	36,00	48,00	160	2000	57,2	111,4						

Type	Displacement	Flow		Pressure P _{nom}	max Speed n	Dimension							
		at 1500 rpm	at max rpm			A	B	Inlet			Outlet		
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	E	F	d	E	F	d
20A(C)4,5X172	4,5	6,14	14,33	250	3500			40		M6-6H	35	15	M6-6H
20A(C)6,3X172	6,3	8,69	20,29	250	3500								
20A(C)8,2X172	8,2	11,32	26,40	250	3500				20				
20A(C)10X172	10	13,95	32,55	250	3500								
20A(C)11X172	11,3	15,76	36,78	250	3500								
20A(C)12X172	12	16,92	39,48	250	3500								
20A(C)14X172	14	19,95	46,55	250	3500	49,8	97						
20A(C)15X172	15	21,60	36,00	250	2500	50,6	98,5						
20A(C)16X172	16	23,04	38,40	250	2500	49,8	100,1						
20A(C)19X172	19	27,36	45,60	200	2500	53,6	105,1						
20A(C)22X172	22	31,68	42,24	180	2000								

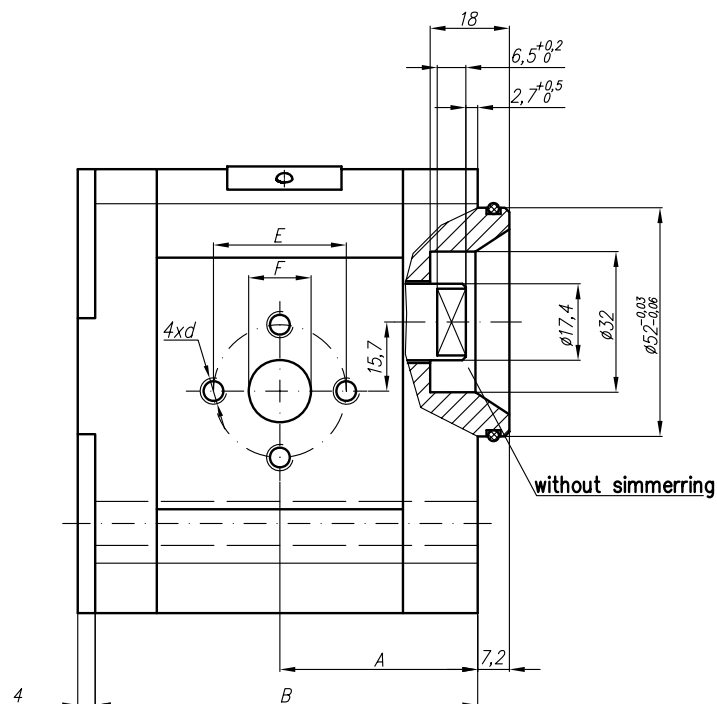
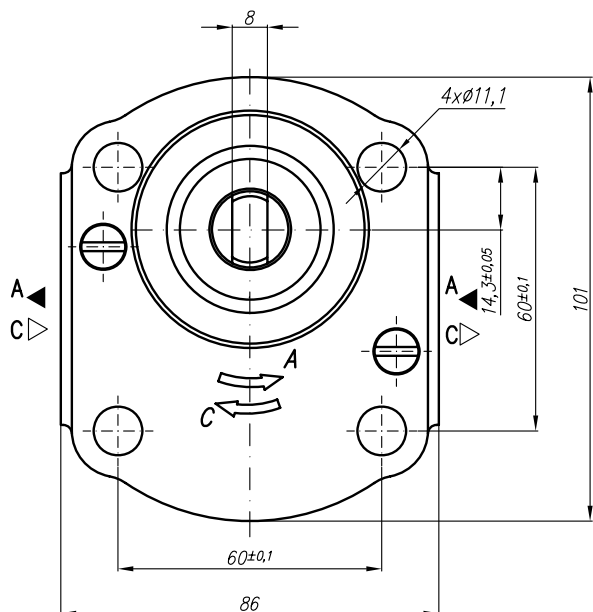
Type	Displacement	Flow		Pressure P _{nom}	max Speed n	Dimension							
		at 1500 rpm	at max rpm			A	B	Inlet			Outlet		
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	E	F	d	E	F	d
20A(C)4,5X173	4,5	6,14	14,33	250	3500			40		M6-6H	35	15	M6-6H
20A(C)6,3X173	6,3	8,69	20,29	250	3500								
20A(C)8,2X173	8,2	11,32	26,40	250	3500	36,6	74		20				
20A(C)10X173	10	13,95	32,55	250	3500								
20A(C)11X173	11,3	15,76	36,78	250	3500	42	85						
20A(C)12X173	12	16,92	39,48	250	3500								
20A(C)14X173	14	19,95	46,55	250	3500								
20A(C)15X173	15	21,60	36,00	250	2500								
20A(C)16X173	16	23,04	38,40	250	2500								
20A(C)19X173	19	27,36	45,60	200	2500								
20A(C)22X173	22	31,68	42,24	180	2000								

Technical drawing of a mechanical part showing three views: front, side, and top.

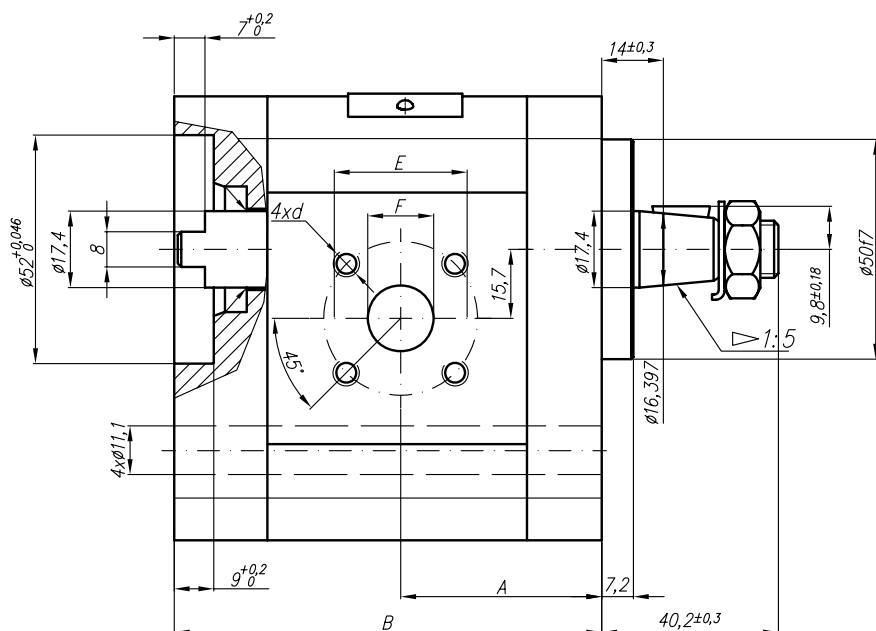
- Front View:** Shows a circular flange with four mounting holes. Dimensions include a diameter of 86, a central bore diameter of 60 ± 0.1, and a distance of 8 between mounting holes. Surface finish symbols A and C are indicated.
- Side View:** Shows the profile of the part. Key dimensions include a total height of 101, a central bore diameter of Ø32, and a distance of 14.3 ± 0.05 from the center to the mounting holes. It also shows a section V-V.
- Top View:** Shows the underside of the part with two M8x14 screws. Dimensions include a diameter of 40 ± 0.1 and a distance of 29.52 ± 0.05 from the center to the screws.

The drawing includes numerous dimension lines, tolerances (e.g., +0.2/-0.1), and surface finish requirements (A, B, C).

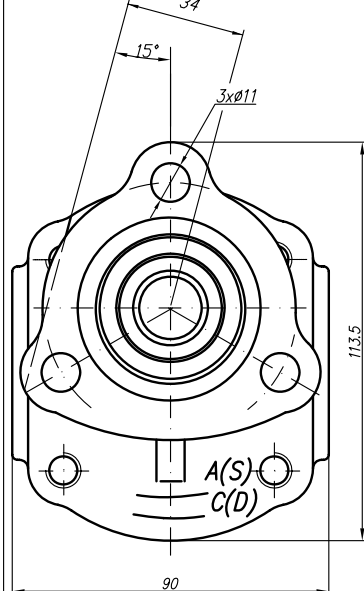
Type	Displacement	Flow		Pressure	max Speed	Dimension													
		at 1500 rpm	at max rpm			P _{nom}	n	A	B	Inlet						Outlet			
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	E	F	d	M	G	U	E	F	d	M	G	U
20A(C)4,5X178...	4,5	6,14	14,33	250	3500	40,5	78	30,2	13,1	M6-6H	M20x1,5	G1/2	1 1/16"-12UNF	39,7	13,1	M6-6H	M16x1,5	G1/2	7/8"-14UNF
20A(C)6,3X178...	6,3	8,69	20,29	250	3500	42	81												
20A(C)8,2X178...	8,2	11,32	26,40	250	3500	43,5	83,9												
20A(C)10X178...	10	13,95	32,55	250	3500	45	87	39,7	19	M8-6H	M20x1,5	G3/4	1 1/16"-12UNF	39,7	14,2	M6-6H	M20x1,5	G1/2	7/8"-14UNF
20A(C)11X178...	11,3	15,76	36,78	250	3500	46	89,1												
20A(C)12X178...	12	16,92	39,48	250	3500	46,6	90,3												
20A(C)14X178...	14	19,95	46,55	250	3500	48	93,4	39,7	19	M8-6H	M20x1,5	G3/4	1 1/16"-12UNF	39,7	14,2	M6-6H	M20x1,5	G1/2	7/8"-14UNF
20A(C)15X178...	15	21,60	36,00	250	2500	49	95												
20A(C)16X178...	16	23,04	38,40	250	2500	50	96,6												
20A(C)19X178...	19	27,36	45,60	200	2500	52	101,5	39,7	19	M8-6H	M20x1,5	G3/4	1 1/16"-12UNF	39,7	19	M8	M20x1,5	G1/2	7/8"-14UNF
20A(C)22X178...	22	31,68	42,24	180	2000	55	106,5												
20A(C)25X178...	25	36,00	48,00	160	2000	57,2	111,4												



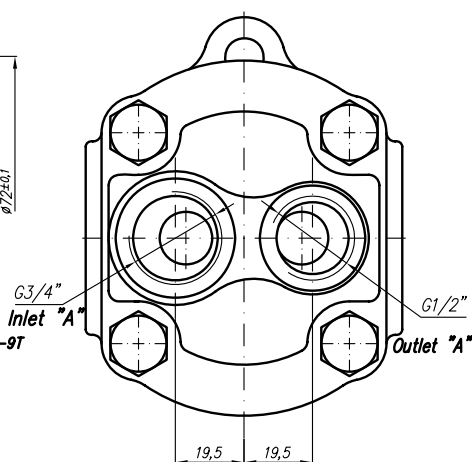
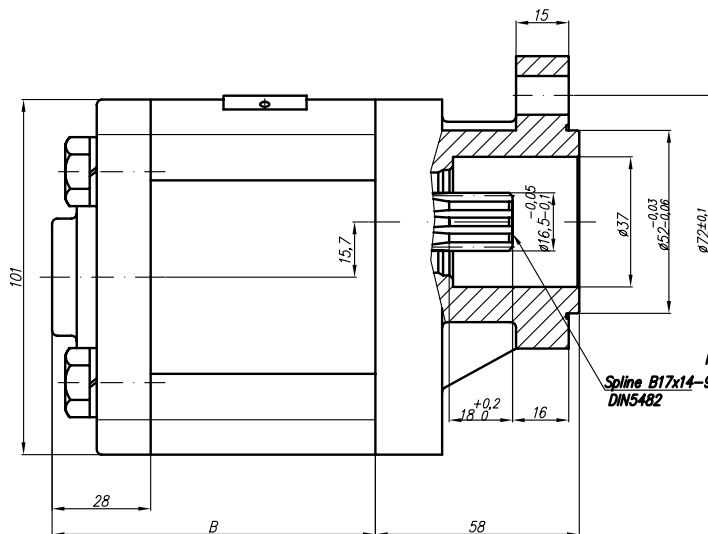
Type	Displacement	Flow		Pressure	max Speed	Dimension							
		at 1500 rpm	at max rpm			P _{nom}	n	A	B	Inlet			Outlet
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	E	F	d	E	F	d
20A(C)4,5X185	4,5	6,14	14,33	200	3500	40,5	78	30,2	13,1	M6-6H	30,2	13,1	M6-6H
20A(C)6,3X185	6,3	8,69	20,29	200	3500	40,5	78						
20A(C)8,2X185	8,2	11,32	26,40	200	3500	40,5	78	39,7	19	M8-6H			
20A(C)10X185	10	13,95	32,55	200	3500	45	87						
20A(C)11X185	11,3	15,76	36,78	200	3500	46	89,1						
20A(C)12X185	12	16,92	39,48	200	3500	46,6	90,3						
20A(C)14X185	14	19,95	46,55	200	3500	48	93,4						
20A(C)15X185	15	21,60	36,00	200	2500	49	94,9						
20A(C)16X185	16	23,04	38,40	200	2500	50	96,6						
20A(C)19X185	19	27,36	45,60	200	2500	52	101,5						
20A(C)22X185	22	31,68	42,24	180	2000	55	106,5						
20A(C)25X185	25	36,00	48,00	160	2000	57,2	111,4				39,7	19	M8



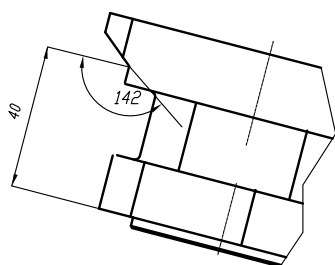
Type	Displacement	Flow		Pressure	max Speed	Dimension							
		at 1500 rpm	at max rpm			P _{nom}	n	A	B	Inlet			Outlet
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	E	F	d	E	F	d
20A(C)4,5X187	4,5	6,14	14,33	250	3500	37,3	82,3	40	15	M6-6H	35	15	M6-6H
20A(C)6,3X187	6,3	8,69	20,29	250	3500	38,6	85,2						
20A(C)8,2X187	8,2	11,32	26,40	250	3500	40,6	85,2						
20A(C)10X187	10	13,95	32,55	250	3500	45	94,1						
20A(C)11X187	11,3	15,76	36,78	250	3500	45	96,2						
20A(C)12X187	12	16,92	39,48	250	3500	45	97,5						
20A(C)14X187	14	19,95	46,55	250	3500	45	100,6						
20A(C)15X187	15	21,60	36,00	250	2500	45	102,1						
20A(C)16X187	16	23,04	38,40	250	2500	45	103,8						
20A(C)19X187	19	27,36	45,60	200	2500	45	108,7						
20A(C)22X187	22	31,68	42,24	180	2000	52,5	113,7						
20A(C)25X187	25	36,00	48,00	160	2000	57,2	118,6						



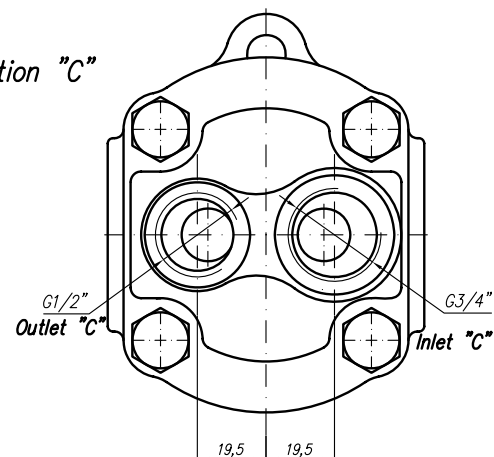
Rotation "A"



→ E
Above displacement 16cm³

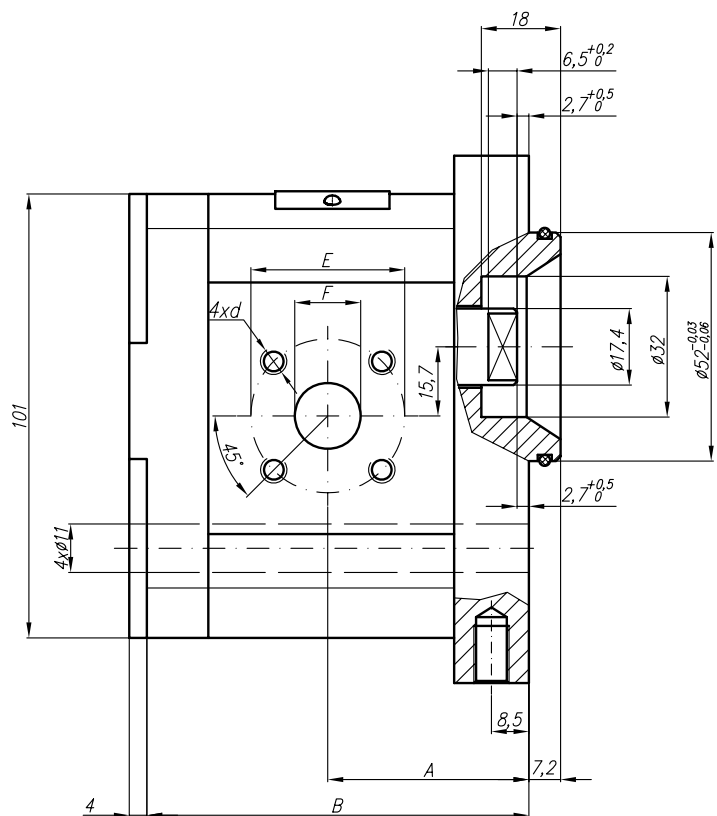


Rotation "C"

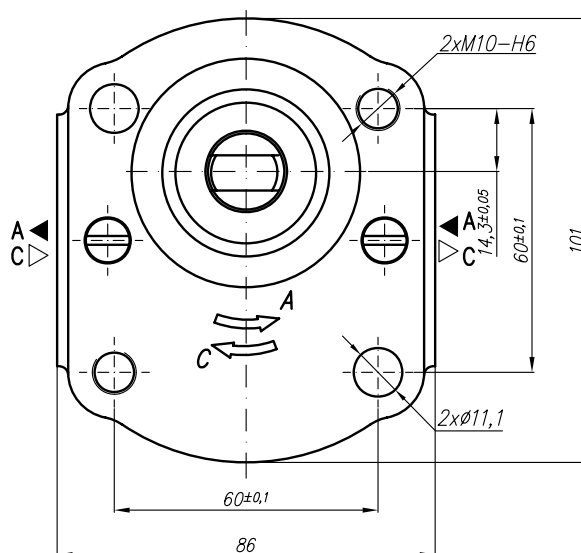


Type	Displacement	Flow		Pressure P _{nom}	max Speed n	Dimension							
		at 1500 rpm	at max rpm			A	B	Inlet			Outlet		
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	M	G	U	M	G	U
20A(C)4,5X192	4,5	6,14	14,33	250	3500		75	G3/4"				G1/2"	
20A(C)6,3X192	6,3	8,69	20,29	250	3500		78						
20A(C)8,2X192	8,2	11,32	26,40	250	3500		80,9						
20A(C)10X192	10	13,95	32,55	250	3500		84						
20A(C)11X192	11,3	15,76	36,78	250	3500		86						
20A(C)12X192	12	16,92	39,48	250	3500		87,3						
20A(C)14X192	14	19,95	46,55	250	3500		90,4						
20A(C)15X192	15	21,60	36,00	250	2500		91,9						
20A(C)16X192	16	23,04	38,40	250	2500		93,6						
20A(C)19X192	19	27,36	45,60	200	2500		98,5						
20A(C)22X192	22	31,68	42,24	180	2000		103,5						
20A(C)25X192	25	36,00	48,00	160	2000		108,4						
20A(C)36X192	36	51,84	51,84	100	1500		103,5						
20A(C)15X192H	15	21,60	36,00	250	2500		102,2	G3/4"				G1/2"	
20A(C)16X192H	16	23,04	38,40	250	2500		103,9						
20A(C)17,3X192H	17,3	24,91	41,52	230	2500		105,9						
20A(C)18,2X192H	18,2	26,21	43,68	200	2500		107,5						
20A(C)19X192H	19	27,36	45,60	200	2500		108,8						
20A(C)22X192H	22	31,68	42,24	180	2000		113,8						
20A(C)25X192H	25	36,00	48,00	160	2000		118,7						
20A(C)28X192H	28	40,32	53,76	120	2000								
20A(C)32X192H	32	46,08	46,08	100	1500								
20A(C)36X192H	36	51,84	51,84	80	1500								

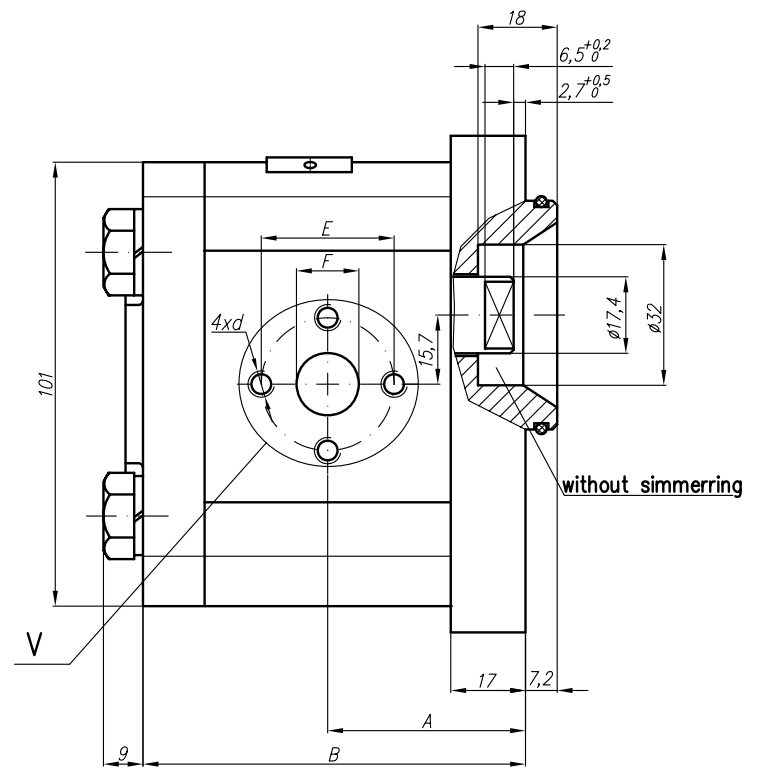
Technical drawing of a mechanical part (Fig. 1.10) showing a front view and a section view. The front view is a circular part with a central hole, four mounting holes, and a central slot. The section view shows the internal structure with hatching. Dimensions include a central slot width of 8 mm with a tolerance of -0.025 to -0.083 , a total width of 90 mm, a height of 120 mm, a mounting hole diameter of 13 mm, and a distance of 60 mm between mounting holes with a tolerance of ± 0.1 . Surface texture symbols A and C are indicated.



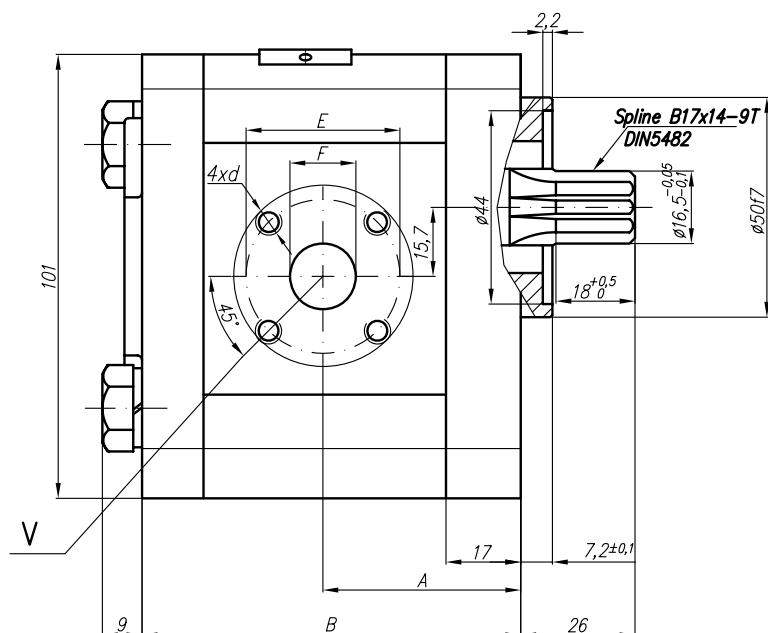
Type	Displacement	Flow		Pressure P _{nom}	max Speed n	Dimension							
		at 1500 rpm	at max rpm			A	B	Inlet			Outlet		
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	E	F	d	E	F	d
20A(C)4,5X194	4,5	6,14	14,33	250	3500	37,3	78	40	15	M6-6H	35	15	M6-6H
20A(C)6,3X194	6,3	8,69	20,29	250	3500	38,6	81						
20A(C)8,2X194	8,2	11,32	26,40	250	3500	40,6	83,9						
20A(C)10X194	10	13,95	32,55	250	3500	45	87						
20A(C)11X194	11,3	15,76	36,78	250	3500	45	89,1						
20A(C)12X194	12	16,92	39,48	250	3500	45	90,3						
20A(C)14X194	14	19,95	46,55	250	3500	45	93,4						
20A(C)15X194	15	21,60	36,00	250	2500	45	94,9						
20A(C)16X194	16	23,04	38,40	250	2500	45	96,5						
20A(C)19X194	19	27,36	45,60	200	2500	45	101,5						
20A(C)22X194	22	31,68	42,24	180	2000	52,5	106,5						
20A(C)25X194	25	36,00	48,00	160	2000	54,7	111,4						



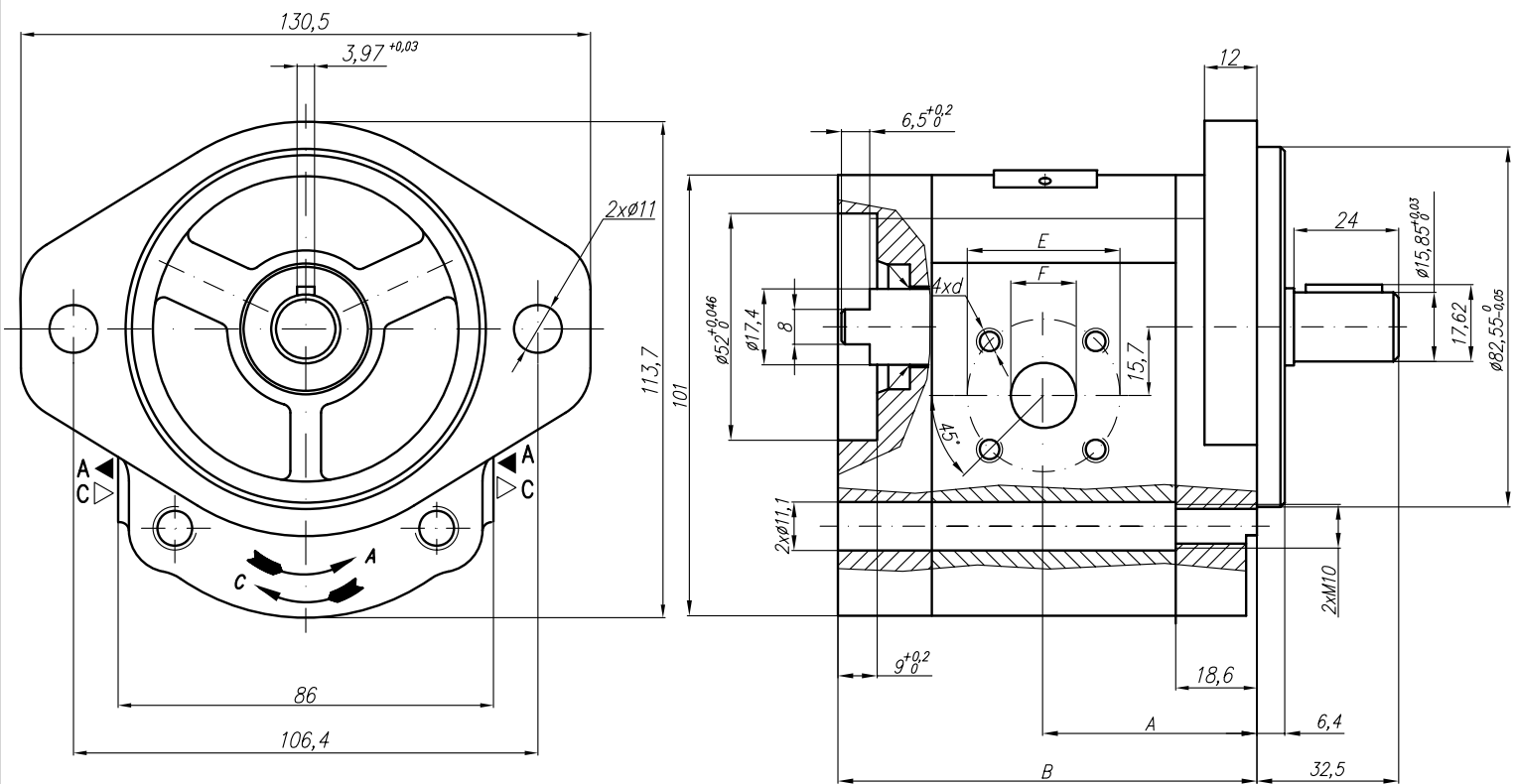
Type	Displacement	Flow		Pressure P _{nom}	max Speed n	Dimension							
		at 1500 rpm	at max rpm			A	B	Inlet			Outlet		
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	E	F	d	E	F	d
20A(C)4,5X195	4,5	6,14	14,33	250	3500	37,3	85,2	40	15	M6-6H	35	15	M6-6H
20A(C)6,3X195	6,3	8,69	20,29	250	3500	38,6	88,2						
20A(C)8,2X195	8,2	11,32	26,40	250	3500	40,6	91,1						
20A(C)10X195	10	13,95	32,55	250	3500	45	94,1						
20A(C)11X195	11,3	15,76	36,78	250	3500	45	96,2						
20A(C)12X195	12	16,92	39,48	250	3500	45	97,5						
20A(C)14X195	14	19,95	46,55	250	3500	45	100,6						
20A(C)15X195	15	21,60	36,00	250	2500	45	102,1						
20A(C)16X195	16	23,04	38,40	250	2500	45	103,8						
20A(C)19X195	19	27,36	45,60	200	2500	45	108,7						
20A(C)22X195	22	31,68	42,24	180	2000	52,5	113,7						
20A(C)25X195	25	36,00	48,00	160	2000	54,7	118,5						



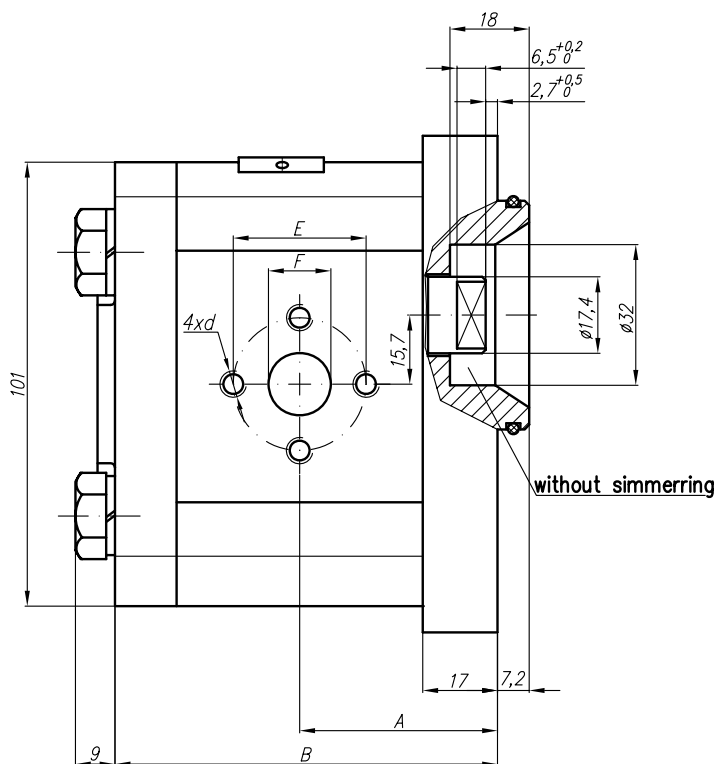
Type	Displacement	Flow		Pressure P _{nom}	max Speed n	Dimension													
		at 1500 rpm	at max rpm			A	B	Inlet						Outlet					
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	E	F	d	M	G	U	E	F	d	M	G	U
20A(C)4,5X201...	4,5	6,14	14,33	250	3500	40,5	78	30,2	13,1	M6-6H	M20x1,5	G1/2	1 1/16"-12UNF	30,2	13,1	M6-6H	M16x1,5	G1/2	7/8"-14UNF
20A(C)6,3X201...	6,3	8,69	20,29	250	3500	42	81												
20A(C)8,2X201...	8,2	11,32	26,40	250	3500	43,5	83,9												
20A(C)10X201...	10	13,95	32,55	250	3500	45	87												
20A(C)11X201...	11,3	15,76	36,78	250	3500	46	89,1												
20A(C)12X201...	12	16,92	39,48	250	3500	46,6	90,3												
20A(C)14X201...	14	19,95	46,55	250	3500	48	93,4												
20A(C)15X201...	15	21,60	36,00	250	2500	49	95												
20A(C)16X201...	16	23,04	38,40	250	2500	50	96,6												
20A(C)19X201...	19	27,36	45,60	200	2500	52	101,5												
20A(C)22X201...	22	31,68	42,24	180	2000	55	106,5												
20A(C)25X201...	25	36,00	48,00	160	2000	57,2	111,4												



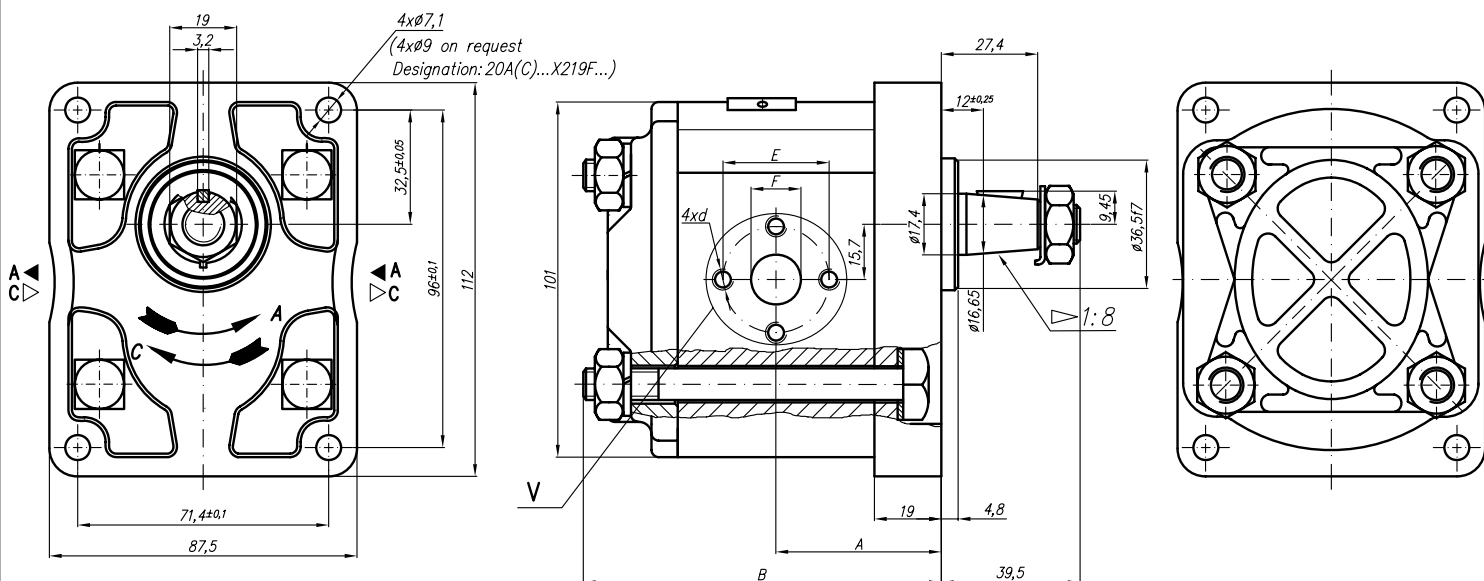
Type	Displacement	Flow		Pressure P _{nom}	max Speed n	Dimension													
		at 1500 rpm	at max rpm			A	B	Inlet				Outlet							
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	E	F	d	M	G	U	E	F	d	M	G	U
20A(C)4,5X205...	4,5	6,14	14,33	250	3500	37,3	75,1	40	15	M6-6H	M20x1,5	G1/2	1 1/16"-12UNF	35	15	M6-6H	M16x1,5	G1/2	7/8"-14UNF
20A(C)6,3X205...	6,3	8,69	20,29	250	3500	38,6	78												
20A(C)8,2X205...	8,2	11,32	26,40	250	3500	40,6	78												
20A(C)10X205...	10	13,95	32,55	250	3500	45	87												
20A(C)11X205...	11,3	15,76	36,78	250	3500	45	89,1												
20A(C)12X205...	12	16,92	39,48	250	3500	45	90,3												
20A(C)14X205...	14	19,95	46,55	250	3500	45	93,4												
20A(C)15X205...	15	21,60	36,00	250	2500	45	94,9												
20A(C)16X205...	16	23,04	38,40	250	2500	45	96,5												
20A(C)19X205...	19	27,36	45,60	200	2500	45	101,5												
20A(C)22X205...	22	31,68	42,24	180	2000	52,5	106,5									M20x1,5			
20A(C)25X205...	25	36,00	48,00	160	2000	57,2	111,4												



Type	Displacement	Flow		Pressure P _{nom}	max Speed n	Dimension							
		at 1500 rpm	at max rpm			A	B	Inlet			Outlet		
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	E	F	d	E	F	d
20A(C)4,5X210	4,5	6,14	14,33	250	3500	41,4	86,8	40	15	M6-6H	35	15	M6-6H
20A(C)6,3X210	6,3	8,69	20,29	250	3500	42,6	89,8		20				
20A(C)8,2X210	8,2	11,32	26,40	250	3500	44,7	92,7						
20A(C)10X210	10	13,95	32,55	250	3500	49,1	95,7						
20A(C)11X210	11,3	15,76	36,78	250	3500	49,1	97,8						
20A(C)12X210	12	16,92	39,48	250	3500	49,1	99,1						
20A(C)14X210	14	19,95	46,55	250	3500	49,1	102,2						
20A(C)15X210	15	21,60	36,00	250	2500	49,1	103,7						
20A(C)16X210	16	23,04	38,40	250	2500	49,1	105,3						
20A(C)19X210	19	27,36	45,60	200	2500	49,1	110,3						
20A(C)22X210	22	31,68	42,24	180	2000	56,6	115,3						
20A(C)25X210	25	36,00	48,00	160	2000	58,8	120,2						



Type	Displacement	Flow		Pressure	max Speed	Dimension									
		at 1500 rpm	at max rpm			P _{nom}	n	A	B	Inlet			Outlet		
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	E	F	d	E	F	d		
20A(C)4,5X218	4,5	6,14	14,33	250	3500	40,5	78	30,2	13,1	1/4"-20UNC	30,2	13,1	1/4"-20UNC		
20A(C)6,3X218	6,3	8,69	20,29	250	3500	42	81								
20A(C)8,2X218	8,2	11,32	26,40	250	3500	43,5	83,9								
20A(C)10X218	10	13,95	32,55	250	3500	45	87	39,7	19	5/16"-18UNC		30,2		14,2	1/4"-20UNC
20A(C)11X218	11,3	15,76	36,78	250	3500	46	89,1								
20A(C)12X218	12	16,92	39,48	250	3500	46,6	90,3								
20A(C)14X218	14	19,95	46,55	250	3500	48	93,4								
20A(C)15X218	15	21,60	36,00	250	2500	49	95								
20A(C)16X218	16	23,04	38,40	250	2500	50	96,6								
20A(C)19X218	19	27,36	45,60	200	2500	52	101,5	39,7	19	5/16"-18UNC	30,2	14,2	1/4"-20UNC		
20A(C)22X218	22	31,68	42,24	180	2000	55	106,5								
20A(C)25X218	25	36,00	48,00	160	2000	57,2	111,4								

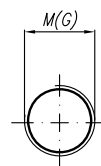


Designation:

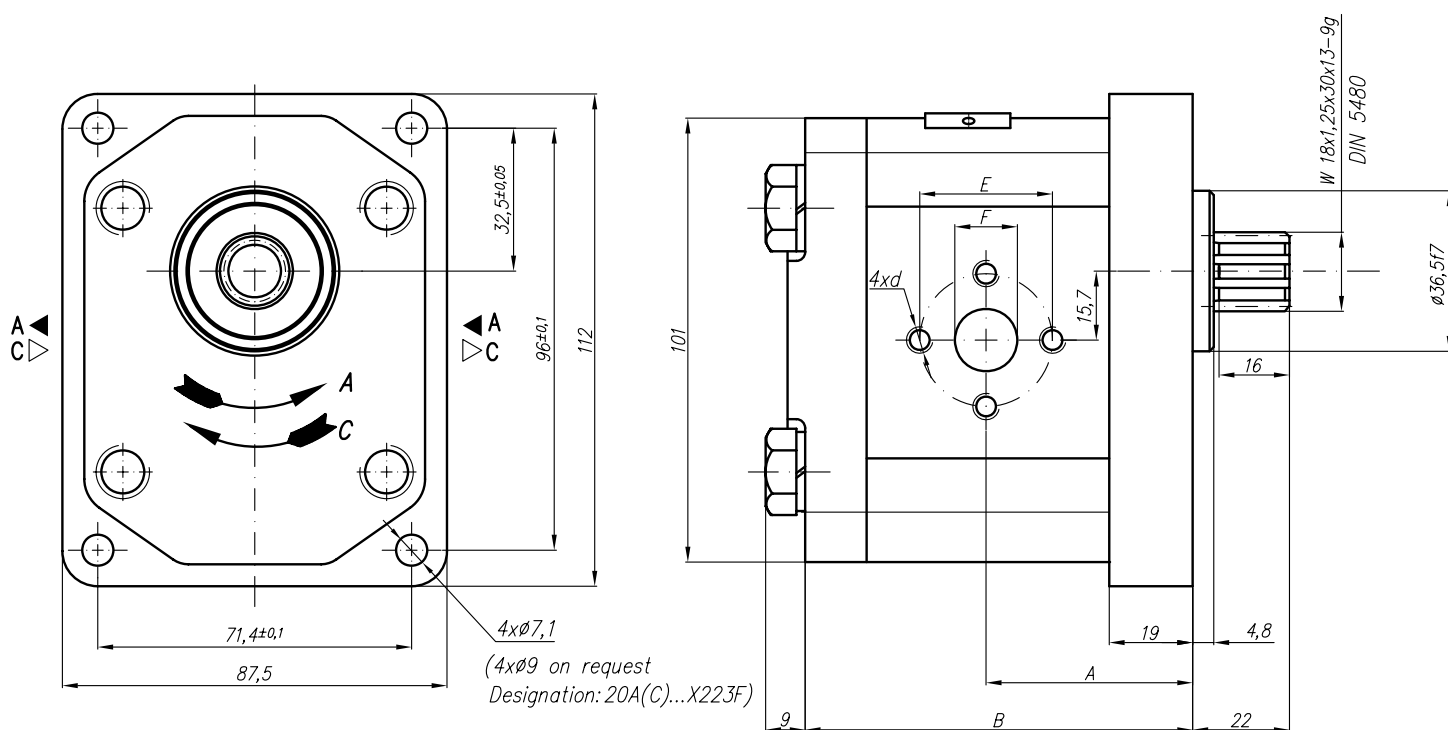
20A(C)...X219P4 –flange ports with UNC threads;
20A(C)...X219P4M –flange ports with Metric threads;

20A(C)...X219M –ports with Metric threads;
20A(C)...X219G –ports with GAS threads;

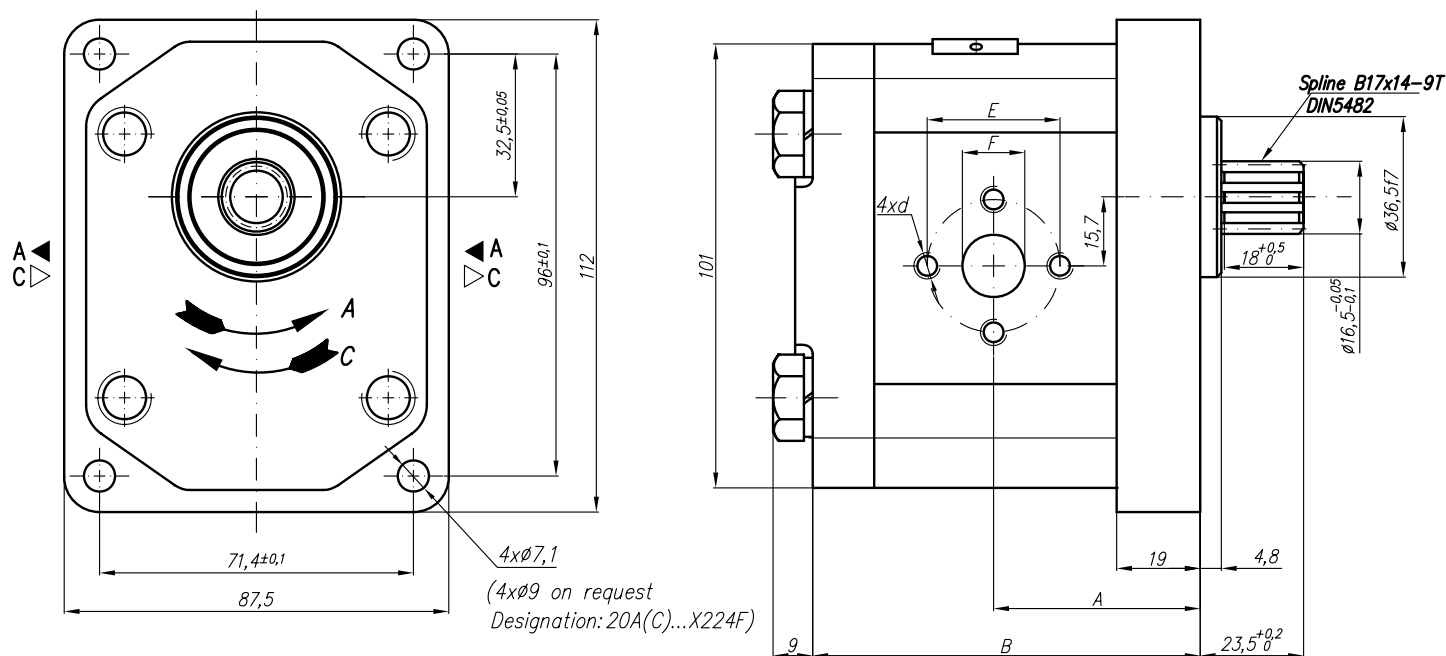
V
Variants for ports – M;G
for port sizes see table on pump 20A(C)...X016...



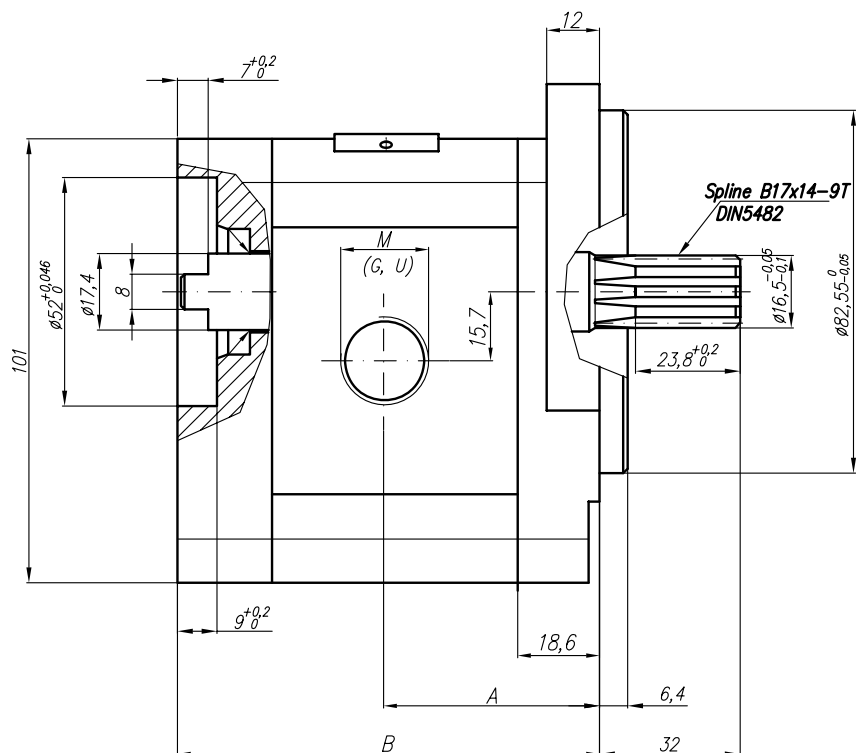
Type		Displacement	Flow		Pressure	max Speed	Dimension									
			at 1500 rpm	at max rpm			P _{nom}	n	A	B	Inlet				Outlet	
"Caproni"	"Plessey"	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	E	F	d	d	E	F	d	d
20A(C)4,5X219...	A(C)10XP4...S	4,5	6,14	14,33	175	3500	42,5	92,8	30,2	13,1	1/4"-20UNC	M6-6H		13,1		
20A(C)6,3X219...	A(C)14XP4...S	6,3	8,69	20,29	175	3500	42,5	92,8								
20A(C)8,2X219...	A(C)18XP4...S	8,2	11,32	26,40	175	3500	42,5	92,8								
20A(C)10X219...	A(C)22XP4...S	10	13,95	32,55	175	3500	47	101,8	39,7	19	5/16"-18UNC	M8-6H	30,2	14,2	1/4"-20UNC	M6-6H
20A(C)11X219...	A(C)25XP4...S	11,3	15,76	36,78	175	3500	48	103,9								
20A(C)12X219...	A(C)26XP4...S	12	16,92	39,48	175	3500	48,6	105,1								
20A(C)14X219...	A(C)31XP4...S	14	19,95	46,55	175	3500	50	108,2								
20A(C)15X219...	A(C)33XP4...S	15	21,60	36,00	175	2500	51	109,7								
20A(C)15X219SS...	A(C)33XP4...SS	15	21,60	36,00	140	2500	48	103,8								
20A(C)16X219...	A(C)35XP4...S	16	23,04	38,40	175	2500	52	111,4								
20A(C)17,3X219...	A(C)38XP4...S	17,3	24,91	41,52	175	2500	52,8	113,4								
20A(C)19X219...	A(C)42XP4...S	19	27,36	45,60	175	2500	54	116,3								
20A(C)19X219SS...	A(C)42XP4...SS	19	27,36	45,60	105	2500	51,4	110								
20A(C)22X219...	A(C)48XP4...S	22	31,68	42,24	175	2000	57	121,3					39,7	19	5/16	M8
20A(C)25X219...	A(C)55XP4...S	25	36,00	48,00	160	2000	59,2	126,2								



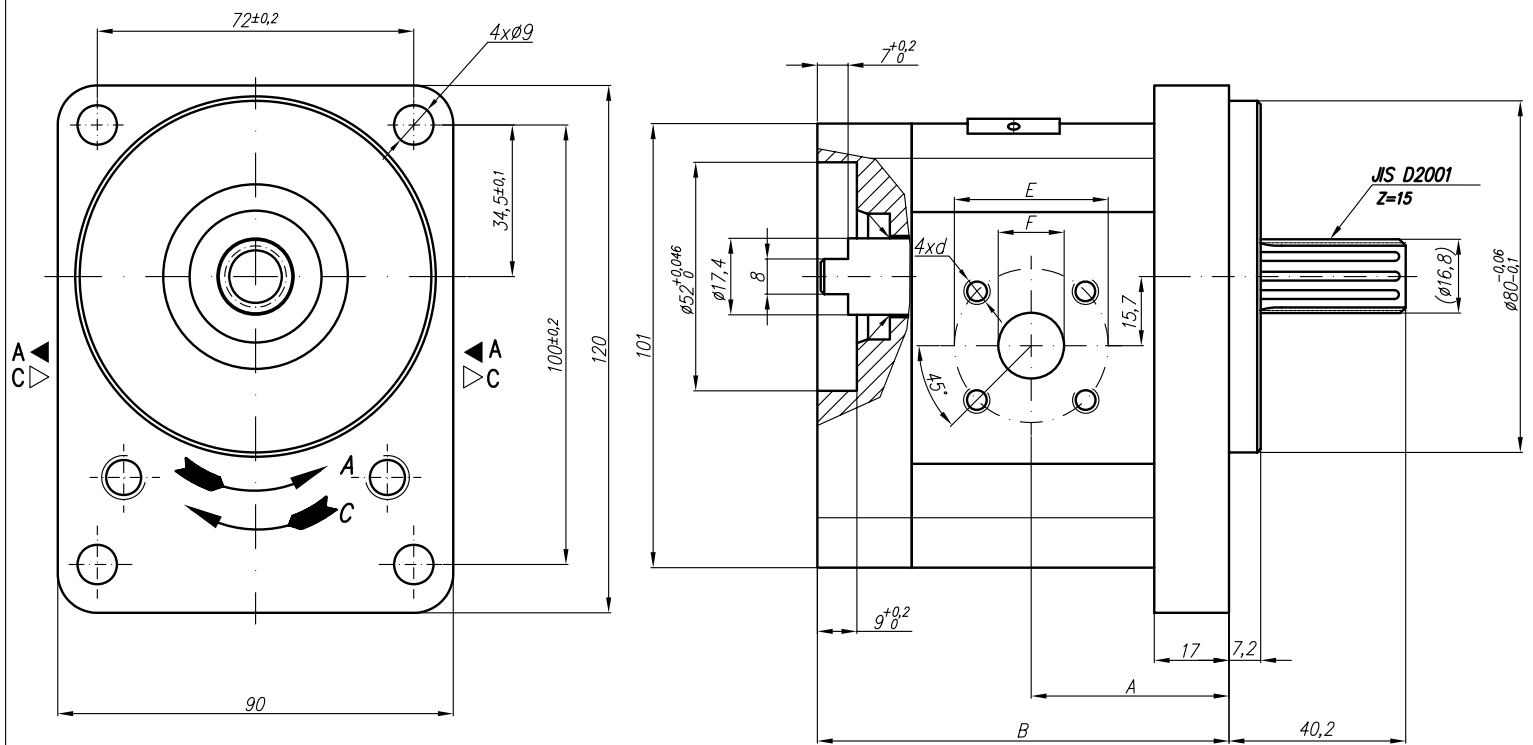
Type	Displacement	Flow		Pressure	max Speed	Dimension									
		at 1500 rpm	at max rpm			P _{nom}	n	A	B	Inlet			Outlet		
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	E	F	d	E	F	d		
20A(C)4,5X223	4,5	6,14	14,33	250	3500	42,5	80	30,2	13,1	M6-6H	30,2	13,1	M6-6H		
20A(C)6,3X223	6,3	8,69	20,29	250	3500	42,5	80								
20A(C)8,2X223	8,2	11,32	26,40	250	3500	42,5	80								
20A(C)10X223	10	13,95	32,55	250	3500	47	89	39,7	19	M8-6H		30,2		14,2	M6-6H
20A(C)11X223	11,3	15,76	36,78	250	3500	48	91,1								
20A(C)12X223	12	16,92	39,48	250	3500	48,6	92,3								
20A(C)14X223	14	19,95	46,55	250	3500	50	95,4								
20A(C)15X223	15	21,60	36,00	250	2500	51	96,9								
20A(C)16X223	16	23,04	38,40	250	2500	52	98,6								
20A(C)19X223	19	27,36	45,60	200	2500	54	103,5								
20A(C)22X223	22	31,68	42,24	180	2000	57	108,5								
20A(C)25X223	25	36,00	48,00	160	2000	59,2	113,4				39,7	19	M8		



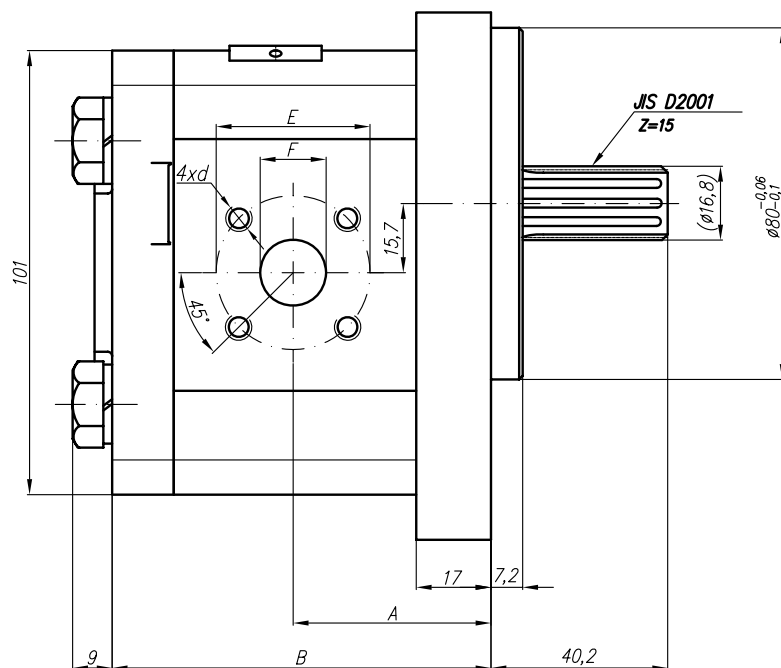
Type	Displacement	Flow		Pressure	max Speed	Dimension									
		at 1500 rpm	at max rpm			P _{nom}	n	A	B	Inlet			Outlet		
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	E	F	d	E	F	d		
20A(C)4,5X224	4,5	6,14	14,33	250	3500	42,5	80	30,2	13,1	M6-6H	30,2	13,1	M6-6H		
20A(C)6,3X224	6,3	8,69	20,29	250	3500	42,5	80								
20A(C)8,2X224	8,2	11,32	26,40	250	3500	42,5	80								
20A(C)10X224	10	13,95	32,55	250	3500	47	89	39,7	19	M8-6H		39,7		14,2	M6-6H
20A(C)11X224	11,3	15,76	36,78	250	3500	48	91,1								
20A(C)12X224	12	16,92	39,48	250	3500	48,6	92,3								
20A(C)14X224	14	19,95	46,55	250	3500	50	95,4								
20A(C)15X224	15	21,60	36,00	250	2500	51	96,9								
20A(C)16X224	16	23,04	38,40	250	2500	52	98,6								
20A(C)19X224	19	27,36	45,60	200	2500	54	103,5								
20A(C)22X224	22	31,68	42,24	180	2000	57	108,5								
20A(C)25X224	25	36,00	48,00	160	2000	59,2	113,4								
20A(C)14X224H	14	20,16	47,04	250	3500	53,1	110,9	39,7	19	M8-6H	30,2	14,2	M6-6H		
20A(C)15X224H	15	21,60	36,00	250	2500	56	107,2								
20A(C)16X224H	16	23,04	38,40	250	2500	56,9	108,8								
20A(C)17,3X224H	17,3	24,91	41,52	230	2500	58	110,9								
20A(C)18,2X224H	18,2	26,21	43,68	200	2500	58,8	112,5								
20A(C)19X224H	19	27,36	45,60	200	2500	59,4	113,8								
20A(C)22X224H	22	31,68	42,24	180	2000	61,9	118,8								
20A(C)25X224H	25	36,00	48,00	160	2000	64,3	123,7								
20A(C)28X224H	28	40,32	53,76	120	2000	66,8	128,5				39,7	19	M8-6H		
20A(C)32X224H	32	46,08	46,08	100	1500	70	134,8								
20A(C)36X224H	36	51,84	51,84	80	1500	73,2	141,4								



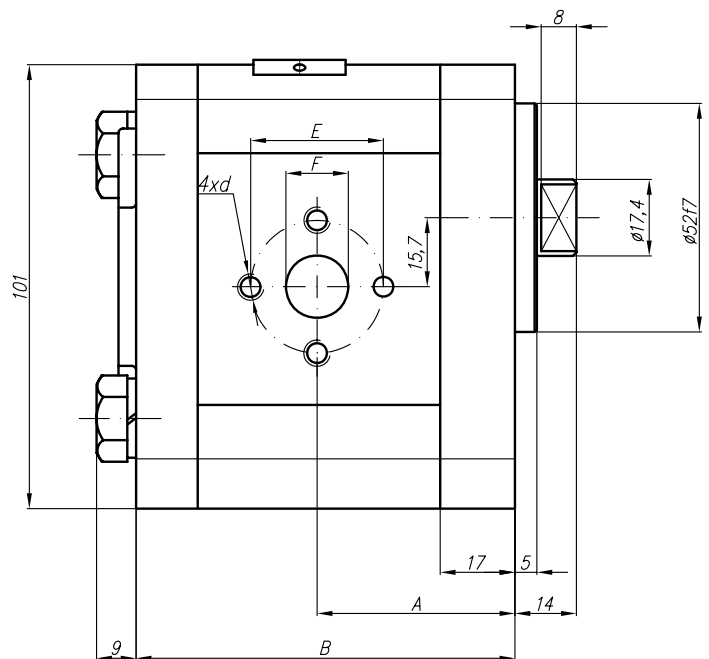
Type	Displacement	Flow		Pressure P _{nom}	max Speed n	Dimension							
		at 1500 rpm	at max rpm			A	B	Inlet			Outlet		
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	M	G	U	M	G	U
20A(C)4,5X227...	4,5	6,14	14,33	250	3500	42,1	87,2	M20x1,5	G1/2		M16x1,5	G1/2	
20A(C)6,3X227...	6,3	8,69	20,29	250	3500	42,1	87,2						
20A(C)8,2X227...	8,2	11,32	26,40	250	3500	42,1	87,2						
20A(C)10X227...	10	13,95	32,55	250	3500	46,6	96,2		G3/4				
20A(C)11X227...	11,3	15,76	36,78	250	3500	47,6	98,3						
20A(C)12X227...	12	16,92	39,48	250	3500	48,2	99,5						
20A(C)14X227...	14	19,95	46,55	250	3500	49,8	102,5						
20A(C)15X227...	15	21,60	36,00	250	2500	50,6	104,1						
20A(C)16X227...	16	23,04	38,40	250	2500	51,4	105,8						
20A(C)19X227...	19	27,36	45,60	200	2500	54	110,7		M20X1,5				
20A(C)22X227...	22	31,68	42,24	180	2000	56,5	115,7						
20A(C)25X227...	25	36,00	48,00	160	2000	58,8	120,6						



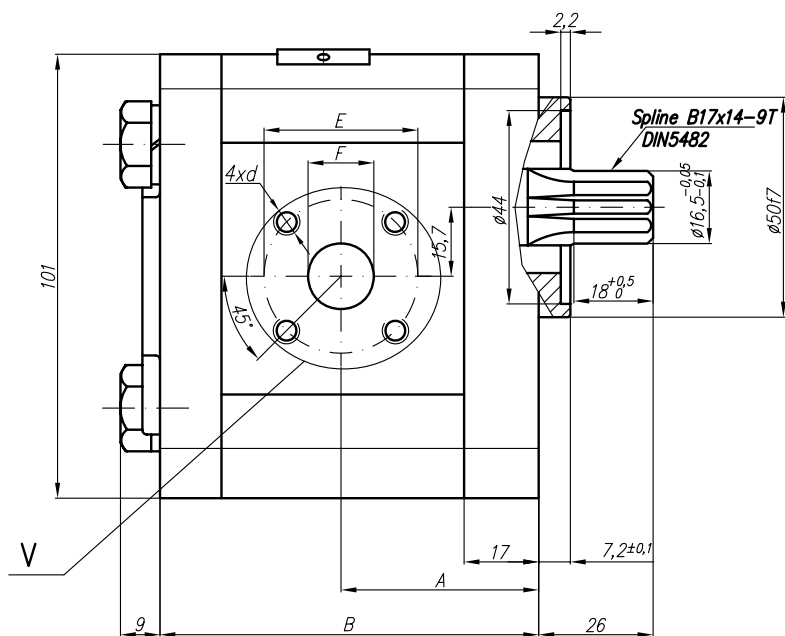
Type	Displacement	Flow		Pressure P _{nom}	max Speed n	Dimension							
		at 1500 rpm	at max rpm			A	B	Inlet			Outlet		
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	E	F	d	E	F	d
20A(C)4,5X259	4,5	6,14	14,33	250	3500	39,8	85,2	40	15	M6-6H	35	15	M6-6H
20A(C)6,3X259	6,3	8,69	20,29	250	3500	41	88,2						
20A(C)8,2X259	8,2	11,32	26,40	250	3500	43,1	91,1						
20A(C)10X259	10	13,95	32,55	250	3500	47,5	94,1						
20A(C)11X259	11,3	15,76	36,78	250	3500	47,5	96,2						
20A(C)12X259	12	16,92	39,48	250	3500	47,5	97,5						
20A(C)14X259	14	19,95	46,55	250	3500	47,5	100,6						
20A(C)15X259	15	21,60	36,00	250	2500	47,5	102,1						
20A(C)16X259	16	23,04	38,40	250	2500	47,5	103,8						
20A(C)19X259	19	27,36	45,60	200	2500	47,5	108,7						
20A(C)22X259	22	31,68	42,24	180	2000	55	113,7						
20A(C)25X259	25	36,00	48,00	160	2000	57,2	118,5						



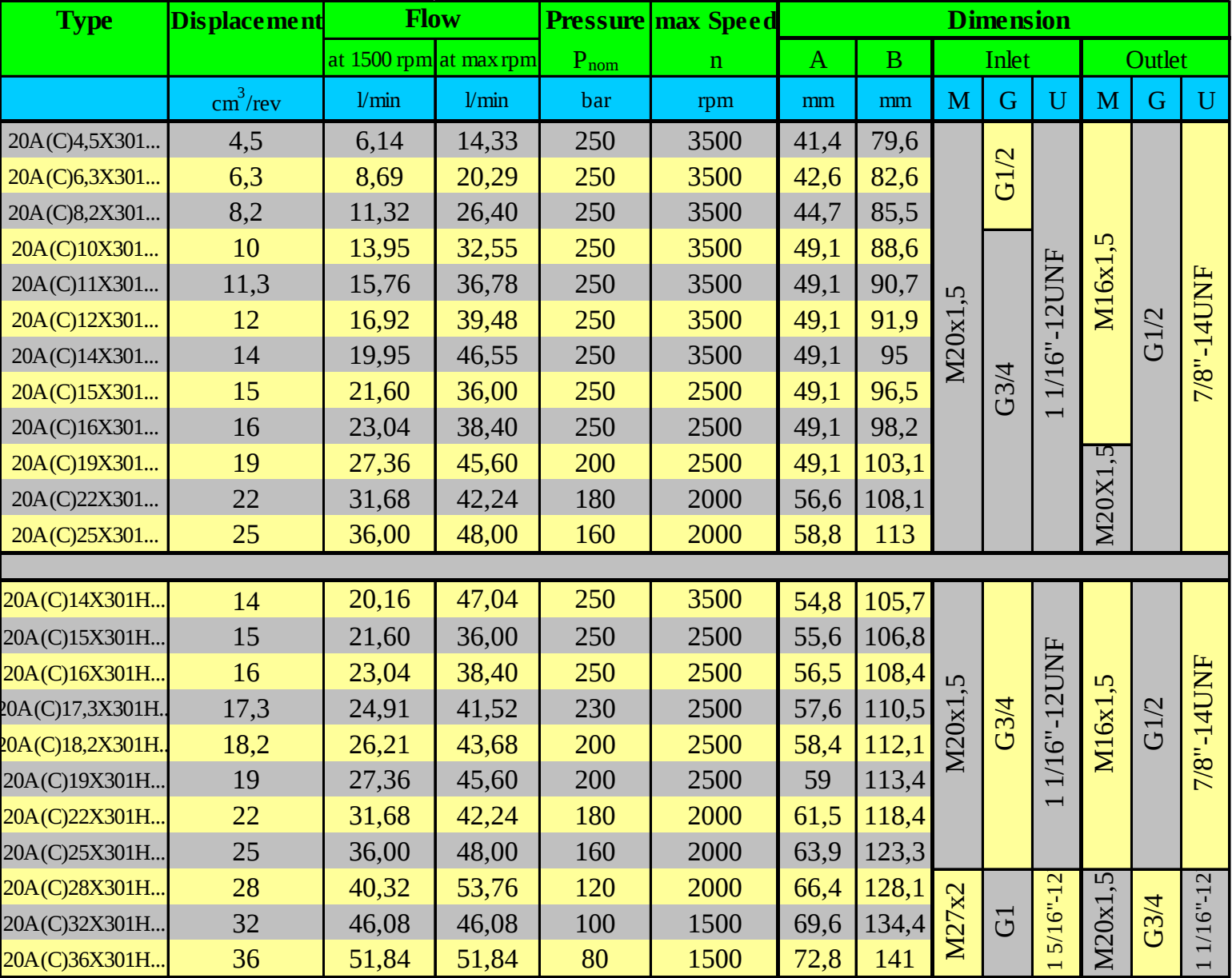
Type	Displacement	Flow		Pressure	max Speed	Dimension							
		at 1500 rpm	at max rpm			P _{nom}	n	A	B	Inlet			Outlet
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	E	F	d	E	F	d
20A(C)4,5X269	4,5	6,14	14,33	250	3500	39,8	78	40	15	M6-6H	35	15	M6-6H
20A(C)6,3X269	6,3	8,69	20,29	250	3500	41	81		20				
20A(C)8,2X269	8,2	11,32	26,40	250	3500	43,1	83,9						
20A(C)10X269	10	13,95	32,55	250	3500	47,5	87						
20A(C)11X269	11,3	15,76	36,78	250	3500	47,5	89,1						
20A(C)12X269	12	16,92	39,48	250	3500	47,5	90,3						
20A(C)14X269	14	19,95	46,55	250	3500	47,5	93,4						
20A(C)15X269	15	21,60	36,00	250	2500	47,5	95						
20A(C)16X269	16	23,04	38,40	250	2500	47,5	96,6						
20A(C)19X269	19	27,36	45,60	200	2500	47,5	101,5						
20A(C)22X269	22	31,68	42,24	180	2000	55	106,5						
20A(C)25X269	25	36,00	48,00	160	2000	57,2	111,4						



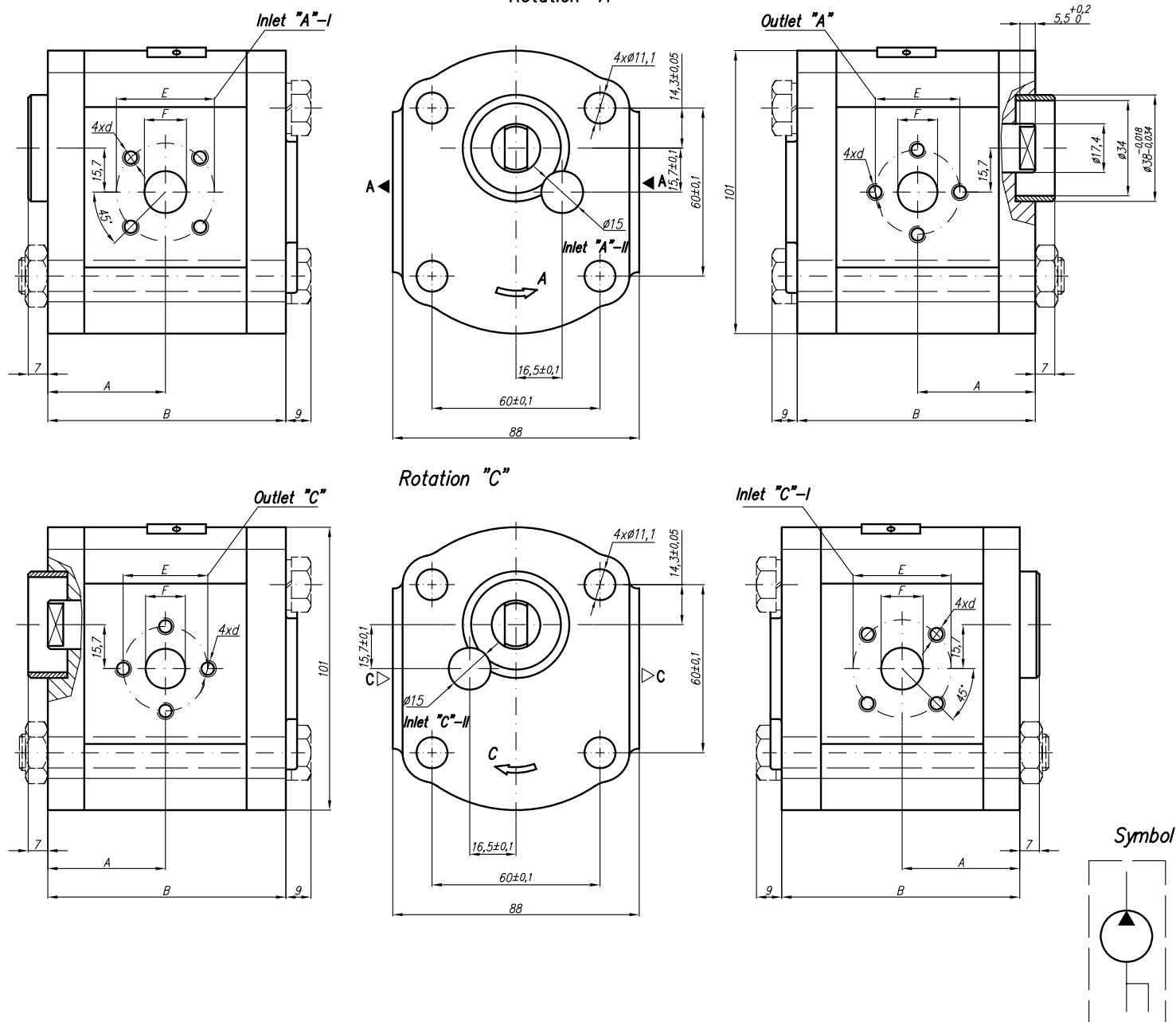
Type	Displacement	Flow		Pressure P _{nom}	max Speed n	Dimension									
		at 1500 rpm	at max rpm			A	B	Inlet			Outlet				
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	E	F	d	E	F	d		
20A(C)4,5X295	4,5	6,14	14,33	250	3500	40,5	78	30,2	13,1	M6-6H	30,2	13,1	M6-6H		
20A(C)6,3X295	6,3	8,69	20,29	250	3500	42	81								
20A(C)8,2X295	8,2	11,32	26,40	250	3500	43,5	83,9								
20A(C)10X295	10	13,95	32,55	250	3500	45	87	39,7	19	M8-6H		30,2		14,2	M6-6H
20A(C)11X295	11,3	15,76	36,78	250	3500	46	89,1								
20A(C)12X295	12	16,92	39,48	250	3500	46,6	90,3								
20A(C)14X295	14	19,95	46,55	250	3500	48	93,4								
20A(C)15X295	15	21,60	36,00	250	2500	49	95								
20A(C)16X295	16	23,04	38,40	250	2500	50	96,6								
20A(C)19X295	19	27,36	45,60	200	2500	52	101,5								
20A(C)22X295	22	31,68	42,24	180	2000	55	106,5								
20A(C)25X295	25	36,00	48,00	160	2000	57,2	111,4								



Type	Displacement	Flow		Pressure	max Speed	Dimension													
		at 1500 rpm	at max rpm			P _{nom}	n	A	B	Inlet				Outlet					
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	E	F	d	M	G	U	E	F	d	M	G	U
20A(C)4,5X296...	4,5	6,14	14,33	250	3500	37,3	75,1	40	15	M6-6H	M20x1,5	G1/2	1 1/16"-12UNF	35	15	M6-6H	M16x1,5	G1/2	7/8"-14UNF
20A(C)6,3X296...	6,3	8,69	20,29	250	3500	38,6	78												
20A(C)8,2X296...	8,2	11,32	26,40	250	3500	40,6	78												
20A(C)10X296...	10	13,95	32,55	250	3500	45	87												
20A(C)11X296...	11,3	15,76	36,78	250	3500	45	89,1												
20A(C)12X296...	12	16,92	39,48	250	3500	45	90,3												
20A(C)14X296...	14	19,95	46,55	250	3500	45	93,4					20							
20A(C)15X296...	15	21,60	36,00	250	2500	45	94,9												
20A(C)16X296...	16	23,04	38,40	250	2500	45	96,5												
20A(C)19X296...	19	27,36	45,60	200	2500	45	101,5												
20A(C)22X296...	22	31,68	42,24	180	2000	52,5	106,5												
20A(C)25X296...	25	36,00	48,00	160	2000	57,2	111,4												

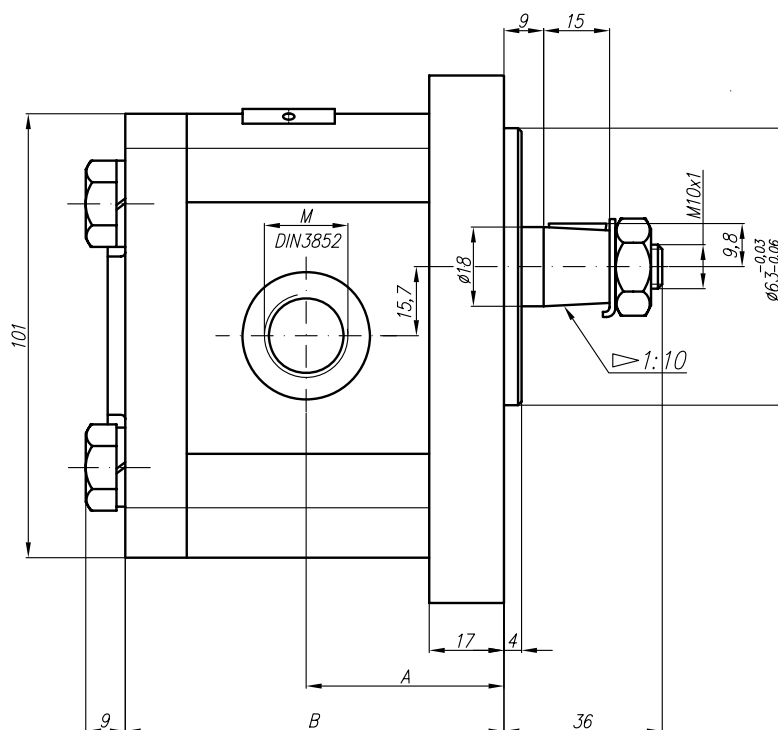
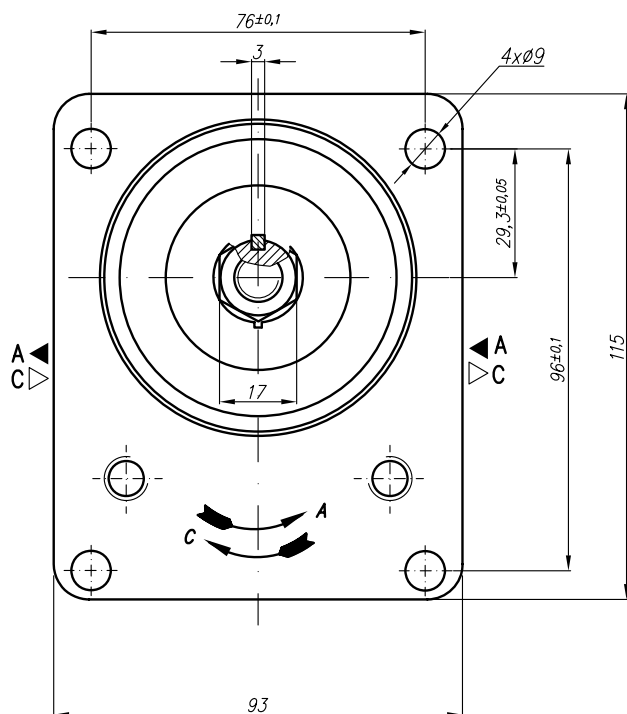


Type	Displacement	Flow		Pressure P _{nom}	max Speed n	Dimension									
		at 1500 rpm	at max rpm			A	B	Inlet			Outlet				
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	E	F	d	E	F	d		
20A(C)4,5X304	4,5							30,2	13,1	M6-6H	30,2	13,1	M6-6H		
20A(C)6,3X304	6,3														
20A(C)8,2X304	8,2														
20A(C)10X304	10														
20A(C)11X304	11,3							40	20	M8-6H		15			
20A(C)12X304	12														
20A(C)14X304	14	19,95	46,55	250	3500	54	97								
20A(C)15X304	15														
20A(C)16X304	16														
20A(C)19X304	19	27,36	45,60	200	2500	54	105,5								
20A(C)22X304	22														
20A(C)25X304	25														



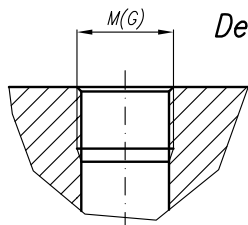
Type	Displacement	Flow		Pressure P _{nom}	max Speed n	Dimension							
		at 1500 rpm	at max rpm			A	B	Inlet			Outlet		
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	E	F	d	E	F	d
20A(C)4,5X305	4,5							40	15	M6-6H	30,2	15	M6-6H
20A(C)6,3X305	6,3												
20A(C)8,2X305	8,2	11,32	26,40	250	3500	34,6	74						
20A(C)10X305	10												
20A(C)11X305	11,3												
20A(C)12X305	12												
20A(C)14X305	14												
20A(C)15X305	15												
20A(C)16X305	16												
20A(C)19X305	19												
20A(C)22X305	22												
20A(C)25X305	25												

& 20A(C)...X145... – with standard threads M,G (see below)

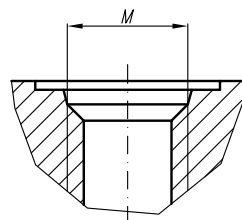


Possible variants with standard threads—M;G

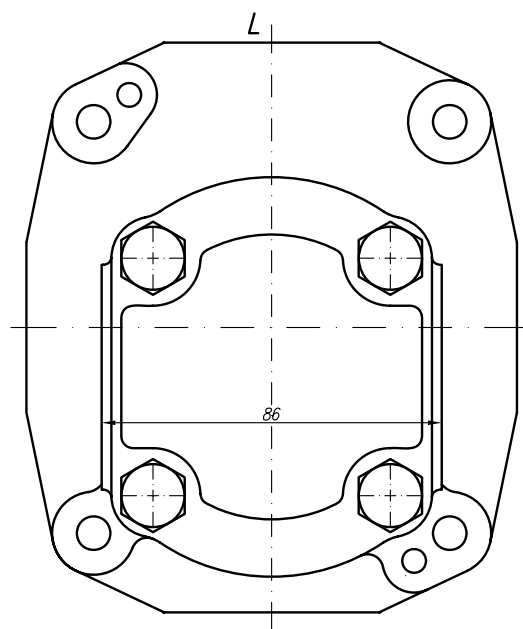
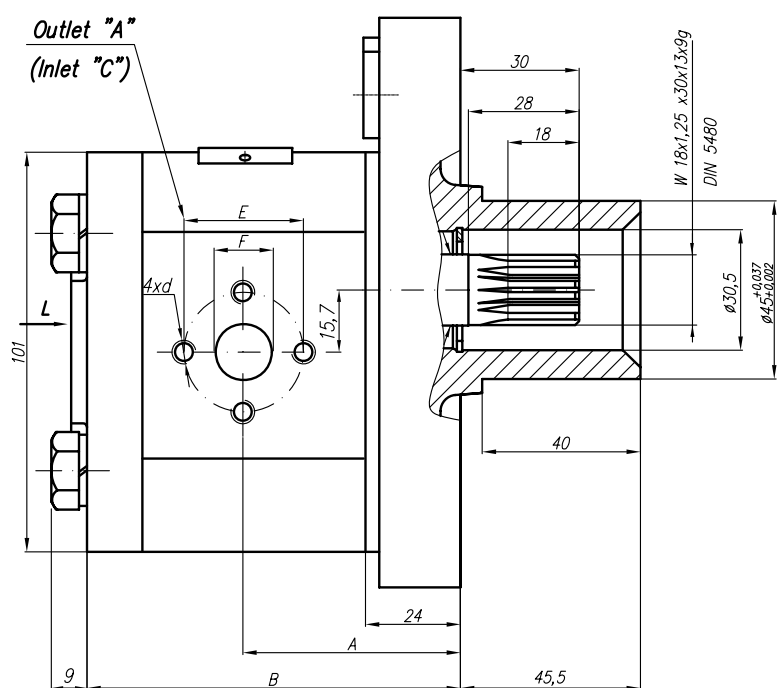
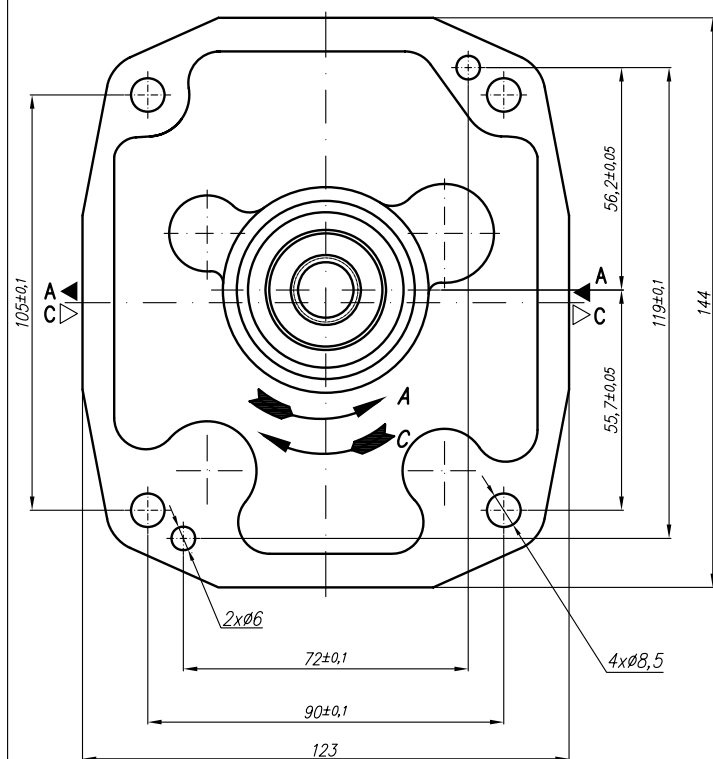
Normal version ports – M (DIN 3852)
(with "O"-ring)



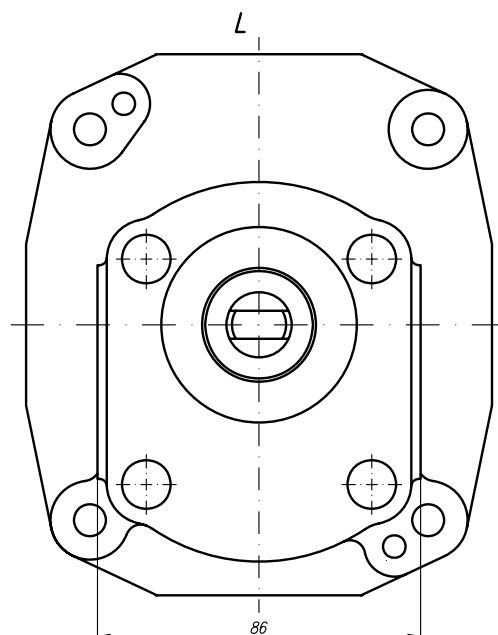
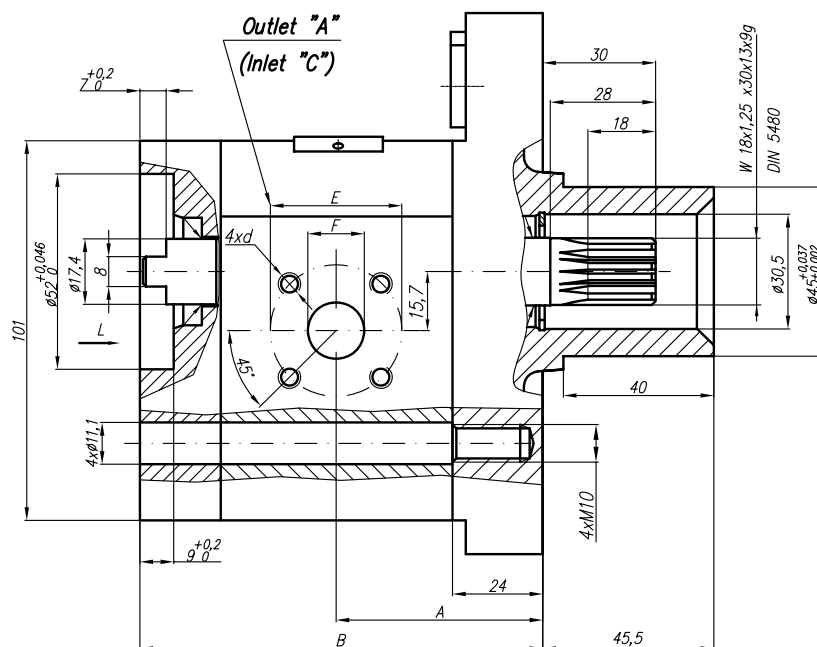
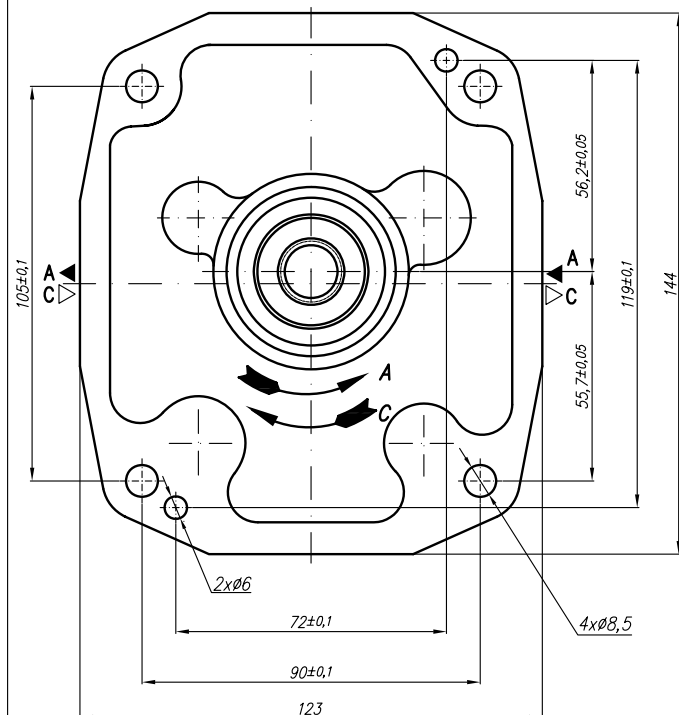
Designation 20A(C)...X145...



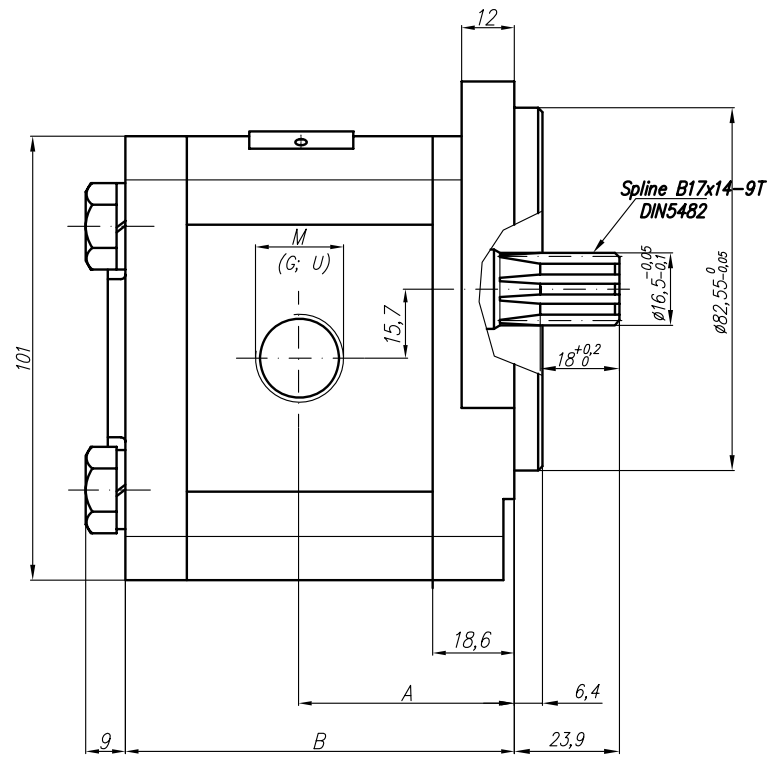
Type	Displacement cm ³ /rev	Flow		Pressure P _{nom} bar	max Speed n rpm	Dimension							
		at 1500 rpm l/min	at max rpm l/min			A mm	B mm	Inlet			Outlet		
								M	G	U	M	G	U
20A(C)4,5X306	4,5	6,14	14,33	250	3500	42,5	80	M18x1,5	G1/2		M14x1,5		
20A(C)6,3X306	6,3	8,69	20,29	250	3500	42,5	80	M18x1,5	G1/2		M14x1,5		
20A(C)8,2X306	8,2	11,32	26,40	250	3500	42,5	80	M18x1,5	G1/2		M14x1,5		
20A(C)10X306	10	13,95	32,55	250	3500	47	89	M22x1,5	G1/2		M18x1,5		
20A(C)11X306	11,3	15,76	36,78	250	3500	48,6	91,1	M22x1,5	G1/2		M18x1,5		
20A(C)12X306	12	16,92	39,48	250	3500	49	92,3	M22x1,5	G1/2		M18x1,5		
20A(C)14X306	14	19,95	46,55	250	3500	49	95,4	M27x2	G3/4		M18x1,5		
20A(C)15X306	15	21,60	36,00	250	2500	49,5	96,9	M27x2	G3/4		M18x1,5		
20A(C)16X306	16	23,04	38,40	250	2500	52	98,6	M27x2	G3/4		M18x1,5		
20A(C)19X306	19	27,36	45,60	200	2500	53	103,5	M27x2	G3/4		M18x1,5		
20A(C)22X306	22	31,68	42,24	180	2000	57	108,5	M27x2	G3/4		M18x1,5		
20A(C)25X306	25	36,00	48,00	160	2000	59,2	113,4	M27x2	G3/4		M18x1,5		



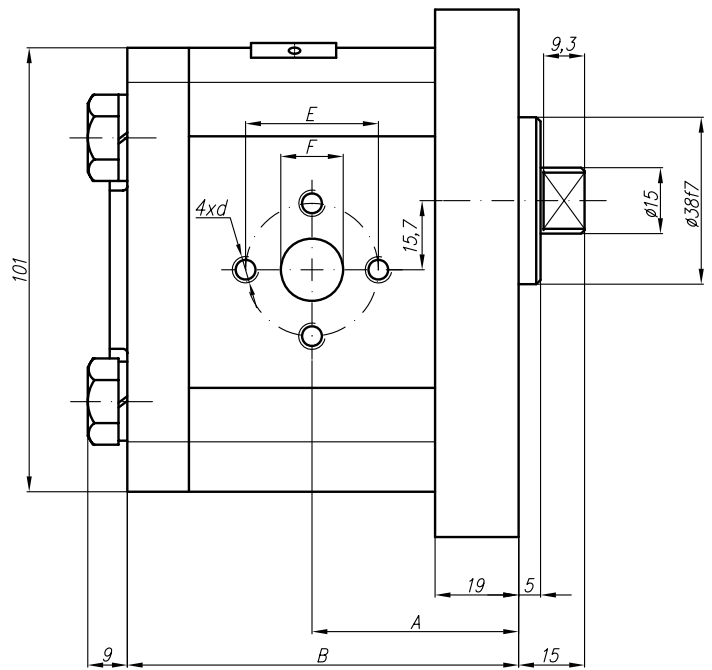
Type	Displacement	Flow		Pressure	max Speed	Dimension							
		at 1500 rpm	at max rpm			A	B	Inlet			Outlet		
	cm ³ /rev	l/min	l/min	P _{nom}	n	mm	mm	E	F	d	E	F	d
20A(C)4,5X315	4,5	6,14	14,33	250	3500								
20A(C)6,3X315	6,3	8,69	20,29	250	3500								
20A(C)8,2X315	8,2	11,32	26,40	250	3500								
20A(C)10X315	10	13,95	32,55	250	3500								
20A(C)11X315	11,3	15,76	36,78	250	3500	53	89,1						
20A(C)12X315	12	16,92	39,48	250	3500	53,6	97,3						
20A(C)14X315	14	19,95	46,55	250	3500								
20A(C)15X315	15	21,60	36,00	250	2500								
20A(C)16X315	16	23,04	38,40	250	2500	57	103,5						
20A(C)19X315	19	27,36	45,60	200	2500	59	108,5						
20A(C)22X315	22	31,68	42,24	180	2000								
20A(C)25X315	25	36,00	48,00	160	2000								



Type	Displacement	Flow		Pressure	max Speed	Dimension							
		at 1500 rpm	at max rpm			A	B	Inlet			Outlet		
	cm ³ /rev	l/min	l/min	P _{nom}	n	mm	mm	E	F	d	E	F	d
20A(C)4,5X316	4,5	6,14	14,33	250	3500			40	15	M6-6H	30,2	15	M6-6H
20A(C)6,3X316	6,3	8,69	20,29	250	3500								
20A(C)8,2X316	8,2	11,32	26,40	250	3500								
20A(C)10X316	10	13,95	32,55	250	3500								
20A(C)11X316	11,3	15,76	36,78	250	3500								
20A(C)12X316	12	16,92	39,48	250	3500								
20A(C)14X316	14	19,95	46,55	250	3500								
20A(C)15X316	15	21,60	36,00	250	2500								
20A(C)16X316	16	23,04	38,40	250	2500	57	110,7						
20A(C)19X316	19	27,36	45,60	200	2500								
20A(C)22X316	22	31,68	42,24	180	2000	61,6	120,7						
20A(C)25X316	25	36,00	48,00	160	2000								

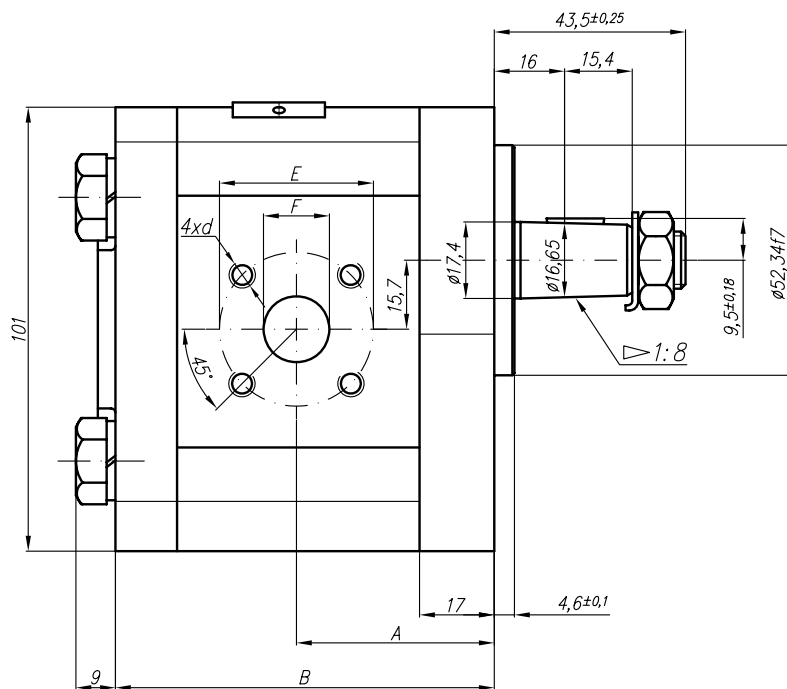


Type	Displacement	Flow		Pressure P _{nom}	max Speed n	Dimension							
		at 1500 rpm	at max rpm			A		B	Inlet			Outlet	
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	M	G	U	M	G	U
20A(C)4,5X320...	4,5	6,14	14,33	250	3500	42	79,6	M20x1,5	G1/2	1 1/16"-12UNF	M16x1,5	G1/2	7/8"-14UNF
20A(C)6,3X320...	6,3	8,69	20,29	250	3500	43,6	82,6						
20A(C)8,2X320...	8,2	11,32	26,40	250	3500	45	85,6						
20A(C)10X320...	10	13,95	32,55	250	3500	46,6	88,7						
20A(C)11X320...	11,3	15,76	36,78	250	3500	47,6	90,7						
20A(C)12X320...	12	16,92	39,48	250	3500	48,2	91,9						
20A(C)14X320...	14	19,95	46,55	250	3500	49,6	95						
20A(C)15X320...	15	21,60	36,00	250	2500	50,6	96,5						
20A(C)16X320...	16	23,04	38,40	250	2500	51,6	98,2						
20A(C)19X320...	19	27,36	45,60	200	2500	53,6	103,1						
20A(C)22X320...	22	31,68	42,24	180	2000	56,6	108,1						
20A(C)25X320...	25	36,00	48,00	160	2000	58,8	113						

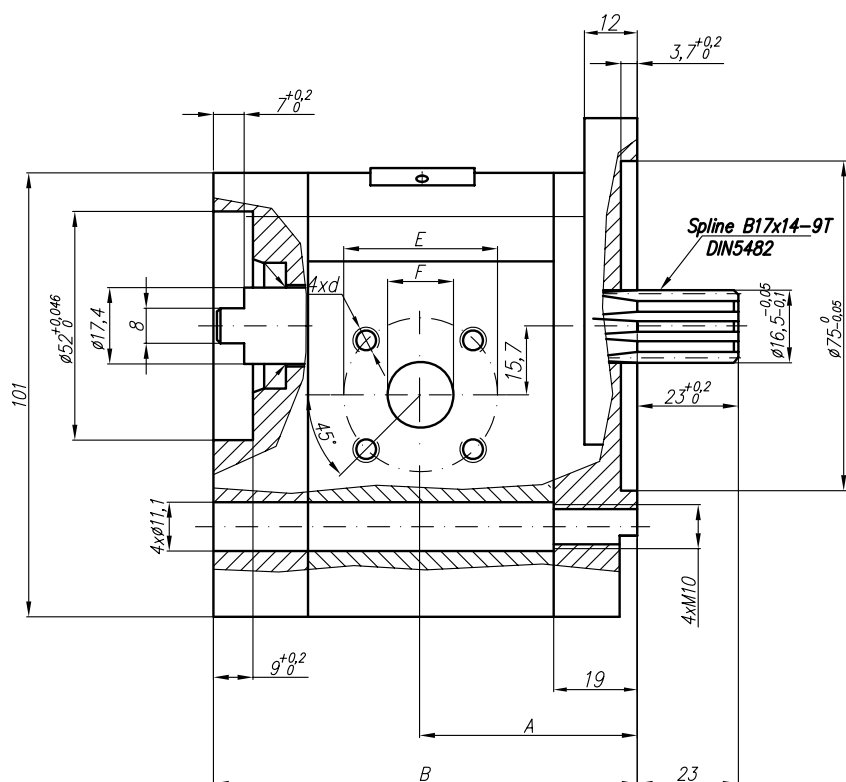


Type	Displacement	Flow		Pressure P _{nom}	max Speed n	Dimension							
		at 1500 rpm	at max rpm			A	B	Inlet			Outlet		
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	E	F	d	E	F	d
20A(C)4,5X321	4,5	6,14	14,33	250	3500	42,5	80	30,2	13,1	M6-6H	30,2	13,1	M6-6H
20A(C)6,3X321	6,3												
20A(C)8,2X321	8,2												
20A(C)10X321	10												
20A(C)11X321	11,3												
20A(C)12X321	12												
20A(C)14X321	14												
20A(C)15X321	15												
20A(C)16X321	16												
20A(C)19X321	19												
20A(C)22X321	22												
20A(C)25X321	25												

Type	Displacement	Flow		Pressure P _{nom}	max Speed n	Dimension													
		at 1500 rpm	at max rpm			A	B	Inlet				Outlet							
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	E	F	d	M	G	U	E	F	d	M	G	U
20A(C)4,5X327...	4,5	6,14	14,33	250	3500	40,5	85,2	39,7	13,1	M6-6H	M20x1,5	G1/2	1 1/16"-12UNF	39,7	19	M6-6H	M16x1,5	G1/2	7/8"-14UNF
20A(C)6,3X327...	6,3	8,69	20,29	250	3500	42	88,2												
20A(C)8,2X327...	8,2	11,32	26,40	250	3500	43,5	91,1												
20A(C)10X327...	10	13,95	32,55	250	3500	45	94,2												
20A(C)11X327...	11,3	15,76	36,78	250	3500	46	96,3												
20A(C)12X327...	12	16,92	39,48	250	3500	46,6	97,5												
20A(C)14X327...	14	19,95	46,55	250	3500	48	100,6												
20A(C)15X327...	15	21,60	36,00	250	2500	49	102,1												
20A(C)16X327...	16	23,04	38,40	250	2500	50	103,8												
20A(C)19X327...	19	27,36	45,60	200	2500	52	108,7												
20A(C)22X327...	22	31,68	42,24	180	2000	55	113,7												
20A(C)25X327...	25	36,00	48,00	160	2000	57,2	118,6												

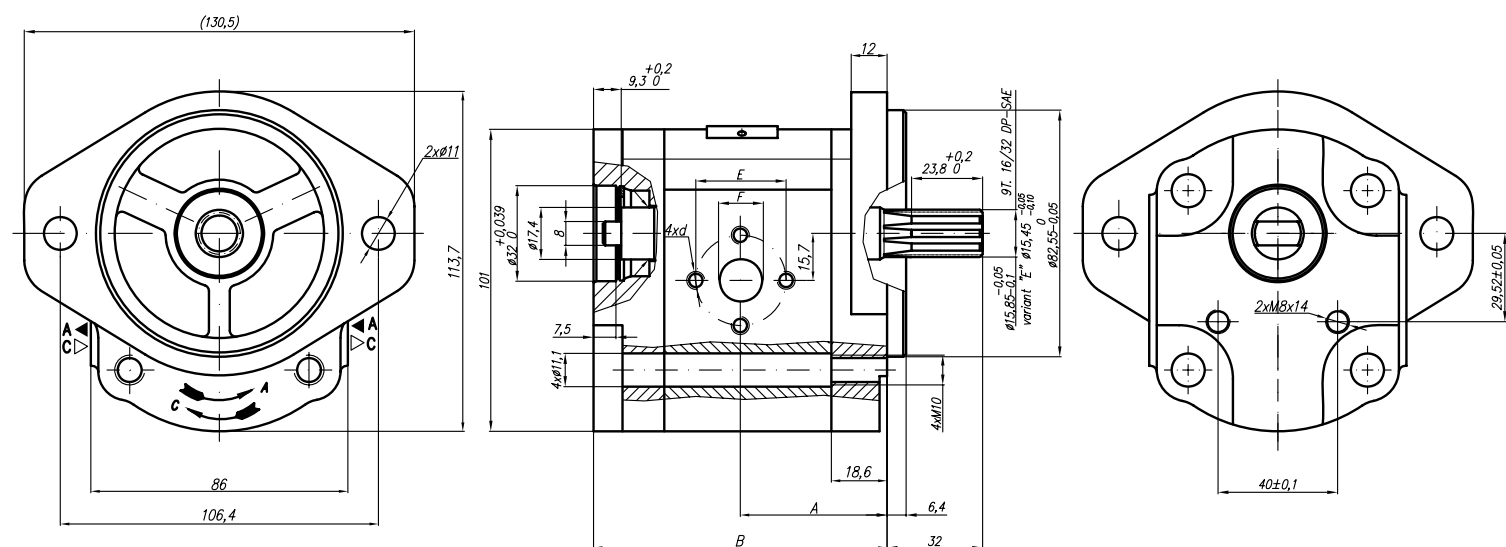


Type	Displacement	Flow		Pressure P _{nom}	max Speed n	Dimension							
		at 1500 rpm	at max rpm			A	B	Inlet			Outlet		
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	E	F	d	E	F	d
20C4,5X328	4,5	6,14	14,33	250	3500			40	15	M6-6H	35	15	M6-6H
20C6,3X328	6,3	8,69	20,29	250	3500	42	81		20				
20C8,2X328	8,2	11,32	26,40	250	3500	43,5	83,9						
20C10X328	10	13,95	32,55	250	3500	45	87						
20C11X328	11,3	15,76	36,78	250	3500	46	89,1						
20C12X328	12	16,92	39,48	250	3500	46,6	90,3						
20C14X328	14	19,95	46,55	250	3500	48	93,4						
20C15X328	15	21,60	36,00	250	2500	49	95						
20C16X328	16	23,04	38,40	250	2500	50	96,6						
20C19X328	19	27,36	45,60	200	2500	52	101,5						
20C22X328	22	31,68	42,24	180	2000	55	106,5						
20C25X328	25	36,00	48,00	160	2000	57,2	111,4						

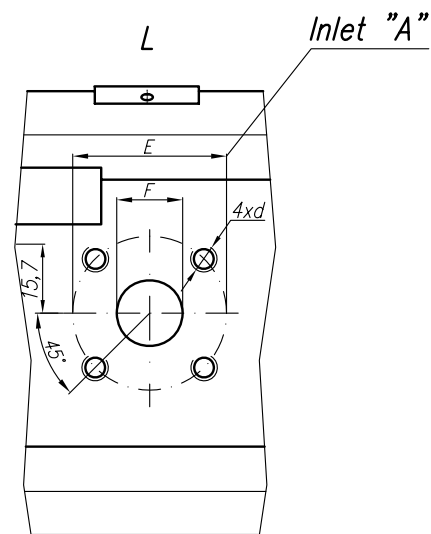
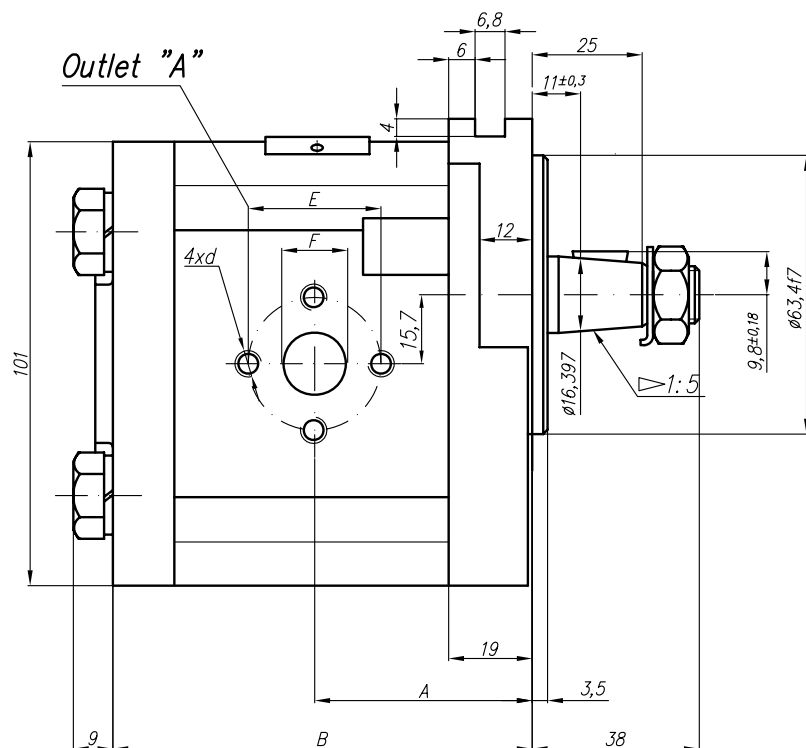


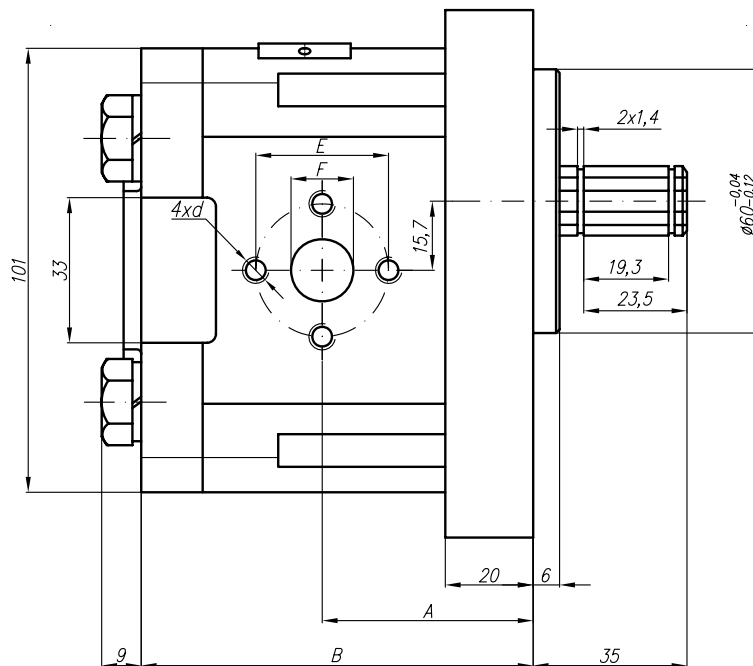
Type	Displacement	Flow		Pressure P _{nom}	max Speed n	Dimension							
		at 1500 rpm	at max rpm			Inlet			Outlet				
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	E	F	d	E	F	d
20A(C)4,5X341	4,5	6,14	14,33	250	3500	41,8	87,2	40	15	M6-6H	35	15	M6-6H
20A(C)6,3X341	6,3	8,69	20,29	250	3500	43	90,2		20				
20A(C)8,2X341	8,2	11,32	26,40	250	3500	45,1	93,1						
20A(C)10X341	10	13,95	32,55	250	3500	49,5	96,2						
20A(C)11X341	11,3	15,76	36,78	250	3500	49,5	98,2						
20A(C)12X341	12	16,92	39,48	250	3500	49,5	99,5						
20A(C)14X341	14	19,95	46,55	250	3500	49,5	102,6						
20A(C)15X341	15	21,60	36,00	250	2500	49,5	104,1						
20A(C)16X341	16	23,04	38,40	250	2500	49,5	105,8						
20A(C)19X341	19	27,36	45,60	200	2500	49,5	110,7						
20A(C)22X341	22	31,68	42,24	180	2000	57	115,7						
20A(C)25X341	25	36,00	48,00	160	2000	59,2	120,6						

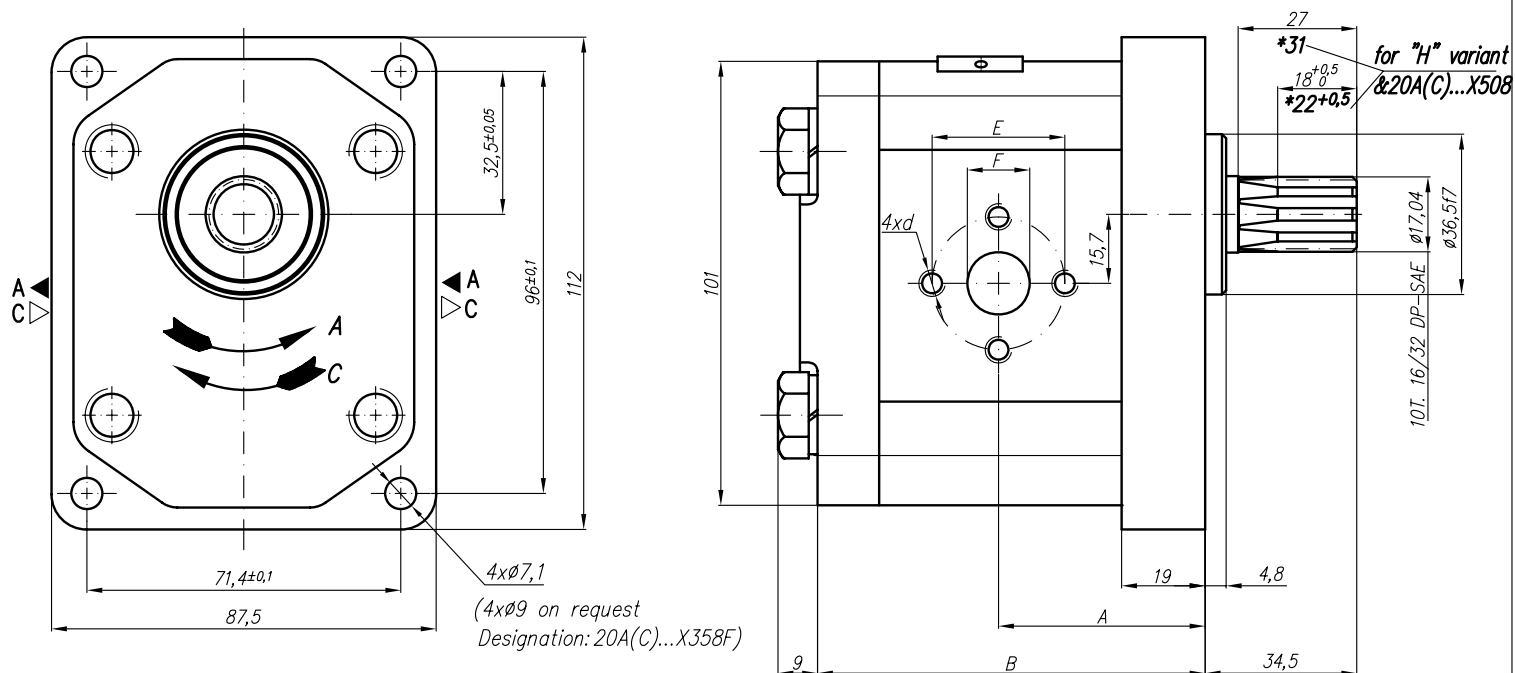
Designed as a first section of tandem pumps group 21A(C)...X347/... (lgroup/lgroup).



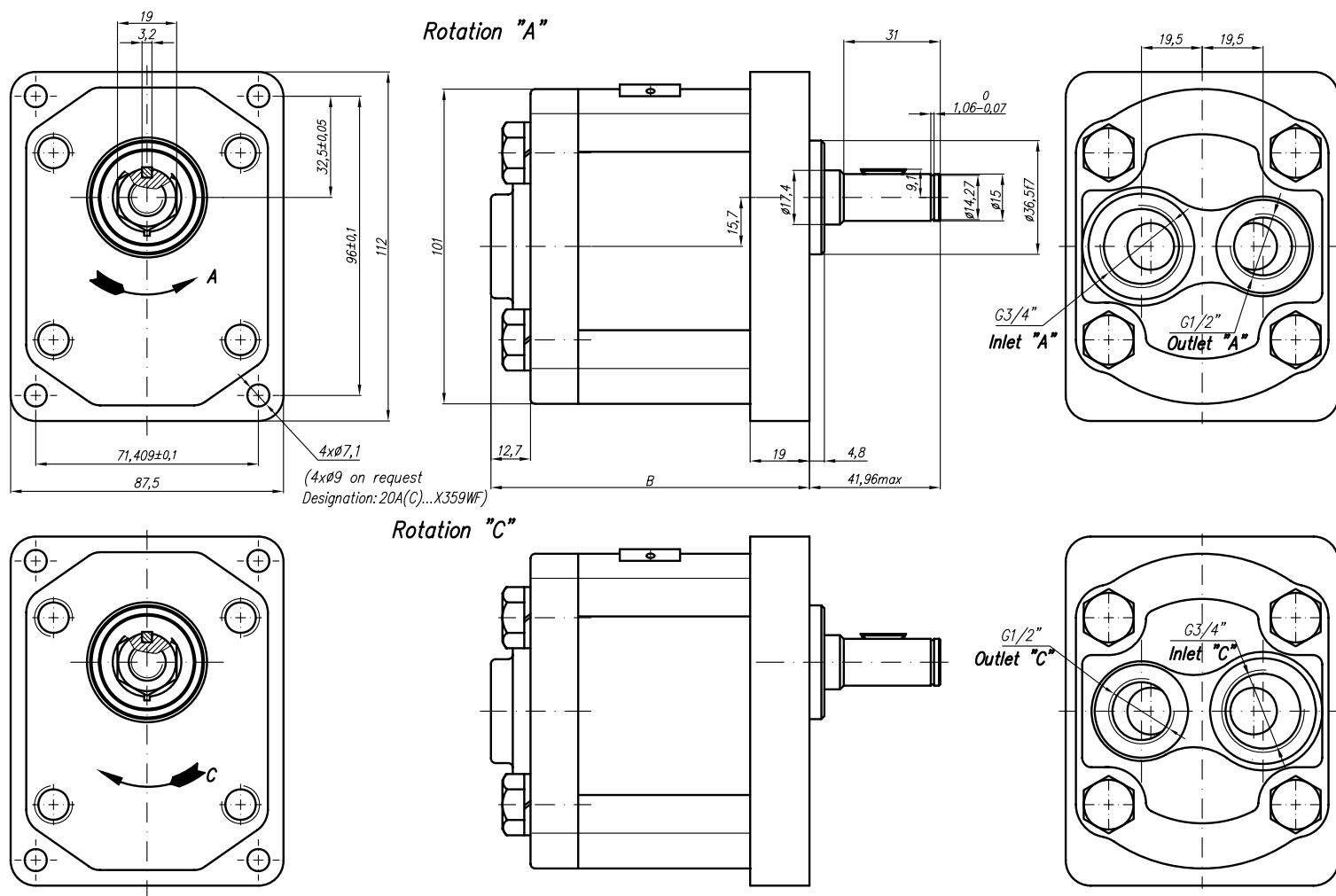
Type	Displacement	Flow		Pressure	max Speed	Dimension							
		at 1500 rpm	at max rpm			A	B	Inlet			Outlet		
	cm ³ /rev	l/min	l/min	P _{nom}	n	mm	mm	E	F	d	E	F	d
20A(C)4,5X347	4,5	6,14	14,33	250	3500	42,5	89,3	30,2	13,1	M6-6H	30,2	13,1	M6-6H
20A(C)6,3X347	6,3	8,69	20,29	250	3500	42,5	89,3						
20A(C)8,2X347	8,2	11,32	26,40	250	3500	42,5	89,3						
20A(C)10X347	10	13,95	32,55	250	3500	47	98,2						
20A(C)11X347	11,3	15,76	36,78	250	3500	48	100,3	39,7	19	M8-6H	30,2	14,2	M6-6H
20A(C)12X347	12	16,92	39,48	250	3500	48,7	101,6						
20A(C)14X347	14	19,95	46,55	250	3500	50,2	104,7						
20A(C)15X347	15	21,60	36,00	250	2500	51	106,2						
20A(C)16X347	16	23,04	38,40	250	2500	51,8	107,8						
20A(C)19X347	19	27,36	45,60	200	2500	54	112,8						
20A(C)22X347	22	31,68	42,24	180	2000	56,5	117,8						
20A(C)25X347	25	36,00	48,00	160	2000	58,8	122,7				39,7	19	M8

[illegible]

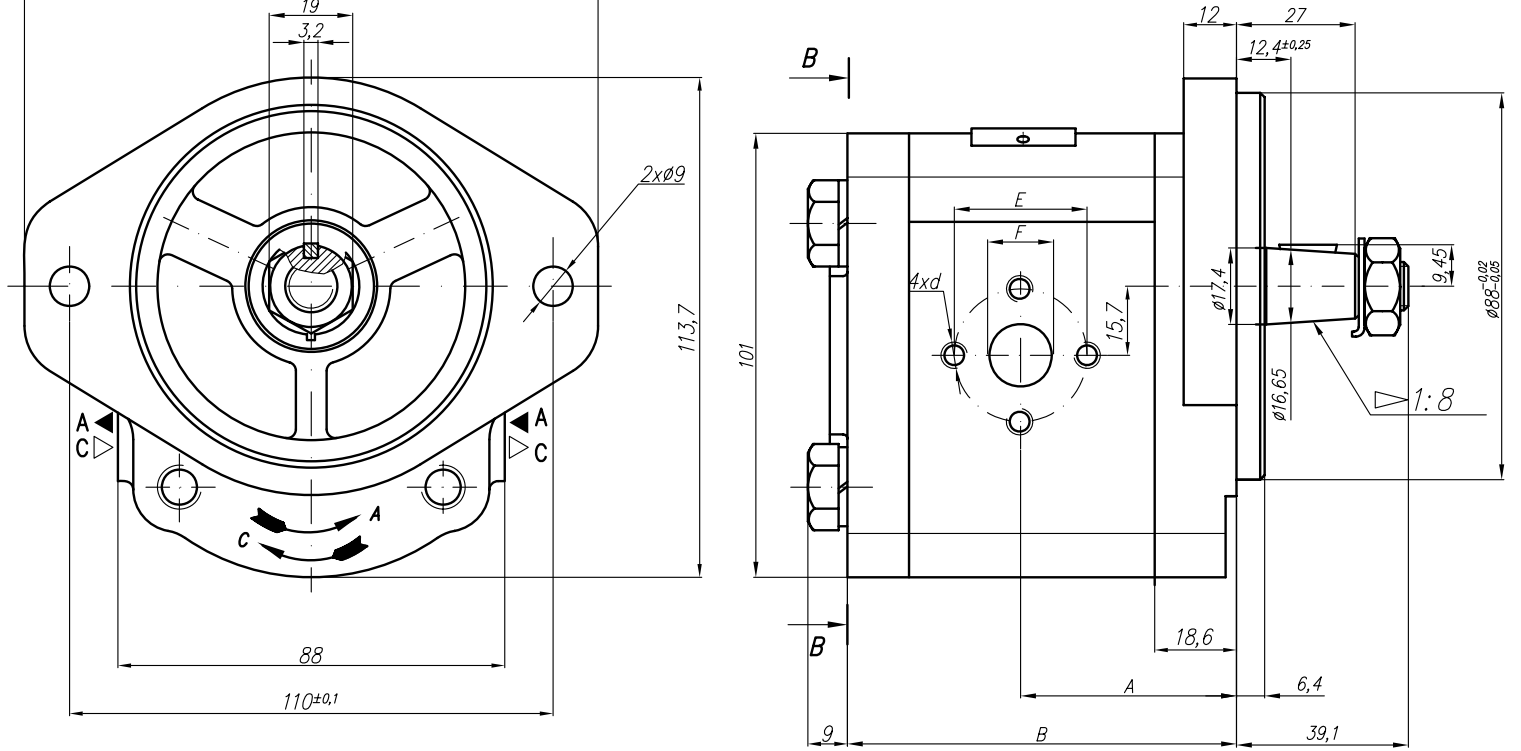
[illegible]



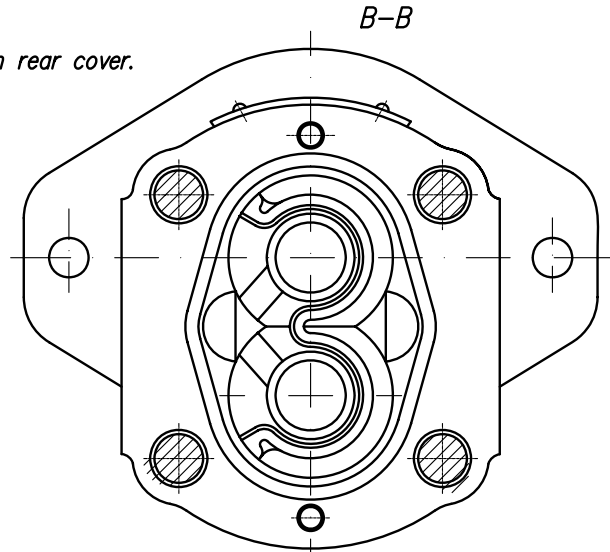
Type	Displacement	Flow		Pressure	max Speed	Dimension										
		at 1500 rpm	at max rpm			P _{nom}	n	A	B	Inlet			Outlet			
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	E	F	d	E	F	d			
20A(C)4,5X358	4,5	6,14	14,33	250	3500	42,5	80	30,2	13,1	1/4-20UNC	30,2	13,1	1/4"-20UNC			
20A(C)6,3X358	6,3	8,69	20,29	250	3500	42,5	80									
20A(C)8,2X358	8,2	11,32	26,40	250	3500	42,5	80									
20A(C)10X358	10	13,95	32,55	250	3500	47	89	39,7	19	5/16"-18UNC				30,2	14,2	1/4"-20UNC
20A(C)11X358	11,3	15,76	36,78	250	3500	48	91,1									
20A(C)12X358	12	16,92	39,48	250	3500	48,6	92,3									
20A(C)14X358	14	19,95	46,55	250	3500	50	95,4									
20A(C)15X358	15	21,60	36,00	250	2500	51	96,9									
20A(C)16X358	16	23,04	38,40	250	2500	52	98,6									
20A(C)19X358	19	27,36	45,60	200	2500	54	103,5									
20A(C)22X358	22	31,68	42,24	180	2000	57	108,5									
20A(C)25X358	25	36,00	48,00	160	2000	59,2	113,4				39,7	19	5/16"			
20A(C)14X358H	14	20,16	47,04	250	3500	55,3	105,7	39,7	19	5/16"-18UNC	30,2	14,2	1/4"-20UNC			
20A(C)15X358H	15	21,60	43,20	250	3000	56	107,2									
20A(C)16X358H	16	23,04	46,08	250	3000	56,9	108,8									
20A(C)17,3X358H	17,3	24,91	49,82	230	3000	58	110,9									
20A(C)18,2X358H	18,2	26,21	52,42	210	3000	58,8	112,5									
20A(C)19X358H	19	27,36	54,72	200	3000	59,4	113,8									
20A(C)22X358H	22	31,68	52,80	180	2500	61,9	118,8									
20A(C)25X358H	25	36,00	60,00	160	2500	64,3	123,7									
20A(C)28X358H	28	40,32	67,20	130	2500	66,8	128,5									
20A(C)32X358H	32	46,08	61,44	120	2000	70	134,8									
20A(C)36X358H	36	51,84	69,12	100	2000	73,2	141,4				39,7	19	5/16"-18UNC			



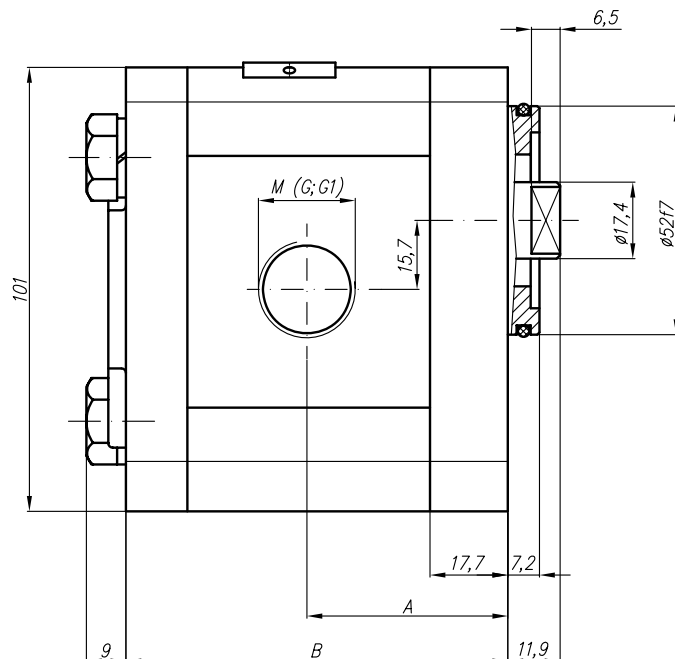
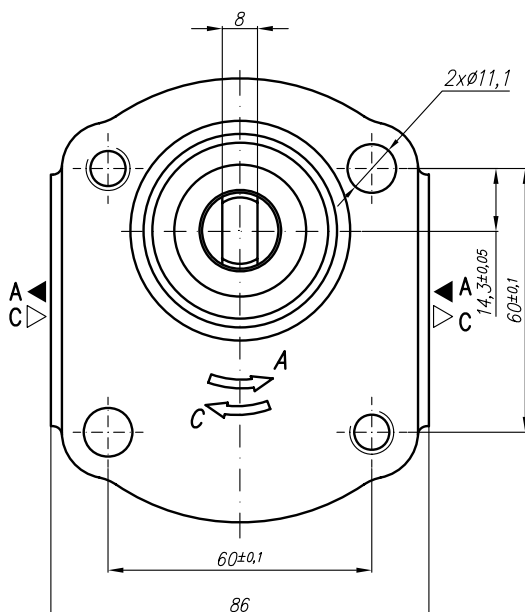
Type	Displacement	Flow		Pressure	max Speed	Dimension							
		at 1500 rpm	at max rpm			A	B	Inlet			Outlet		
	cm ³ /rev	l/min	l/min	P _{nom} bar	n rpm	mm	mm	M	G	U	M	G	U
20A(C)4,5X359W	4,5	6,14	14,33	250	3500		94						
20A(C)6,3X359W	6,3	8,69	20,29	250	3500		97						
20A(C)8,2X359W	8,2	11,32	26,40	250	3500		99,9						
20A(C)10X359W	10	13,95	32,55	250	3500		102,9						
20A(C)11X359W	11,3	15,76	36,78	250	3500		105						
20A(C)12X359W	12	16,92	39,48	250	3500		106,3						
20A(C)14X359W	14	19,95	46,55	250	3500		109,4						
20A(C)15X359W	15	21,60	36,00	250	2500		110,9						
20A(C)16X359W	16	23,04	38,40	250	2500		112,5						
20A(C)19X359W	19	27,36	45,60	200	2500		117,5						
20A(C)22X359W	22	31,68	42,24	180	2000		122,5						
20A(C)25X359W	25	36,00	48,00	160	2000		127,5						



There are possible variants with integrated valves in rear cover.

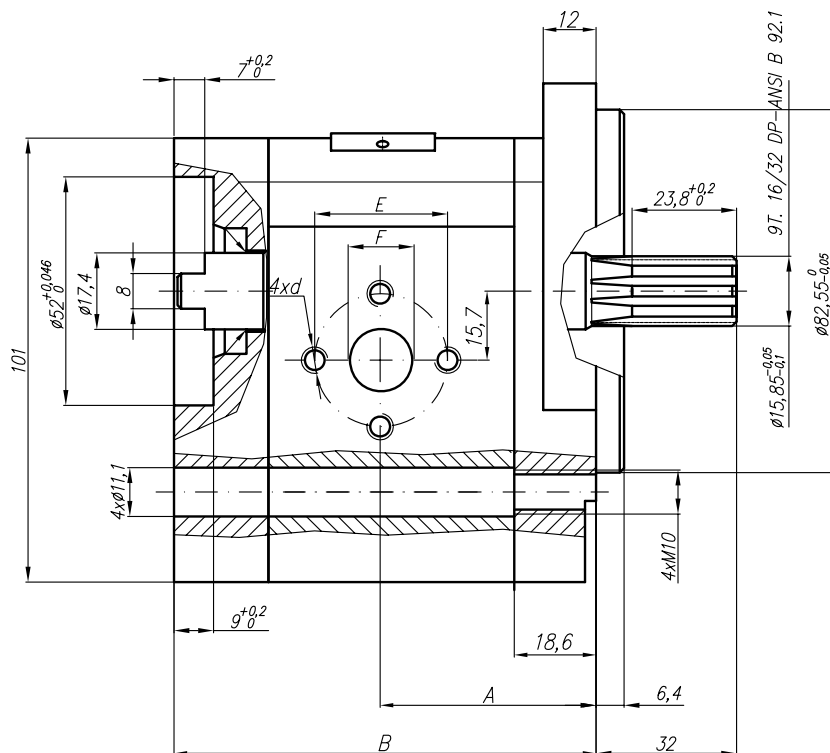
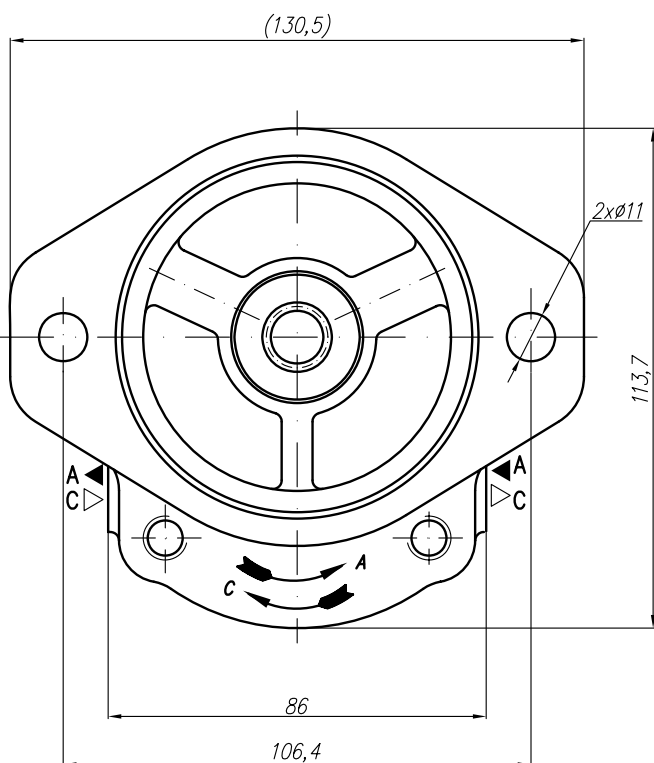


Type	Displacement	Flow		Pressure	max Speed	Dimension							
		at 1500 rpm	at max rpm			A	B	Inlet			Outlet		
	cm ³ /rev	l/min	l/min	P _{nom} bar	n rpm	mm	mm	E	F	d	E	F	d
20A(C)4,5X364VW1	4,5	6,14	14,33	250	3500	42,5	80	30,2	13,1	M6-6H	30,2	13,1	M6-6H
20A(C)6,3X364VW1	6,3	8,69	20,29	250	3500	42,5	80						
20A(C)8,2X364VW1	8,2	11,32	26,40	250	3500	42,5	80						
20A(C)10X364VW1	10	13,95	32,55	250	3500	47	89	39,7	19	M8-6H	30,2	14,2	M6-6H
20A(C)11X364VW1	11,3	15,76	36,78	250	3500	48	91,1						
20A(C)12X364VW1	12	16,92	39,48	250	3500	48,6	92,3						
20A(C)14X364VW1	14	19,95	46,55	250	3500	50	95,4						
20A(C)15X364VW1	15	21,60	36,00	250	2500	51	96,9						
20A(C)16X364VW1	16	23,04	38,40	250	2500	52	98,6						
20A(C)19X364VW1	19	27,36	45,60	200	2500	54	103,5						
20A(C)22X364VW1	22	31,68	42,24	180	2000	57	108,5						
20A(C)25X364VW1	25	36,00	48,00	160	2000	59,2	113,4				39,7	19	M8



Type	Displacement	Flow		Pressure	max Speed	Dimension							
		at 1500 rpm	at max rpm			P _{nom}	n	A	B	Inlet			Outlet
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	M	G	G1	M	G	G1
20A(C)4,5X368	4,5	6,14	14,33	250	3500				G1/2			G1/2	
20A(C)6,3X368	6,3	8,69	20,29	250	3500								
20A(C)8,2X368	8,2	11,32	26,40	250	3500	43,8	84,6			G3/4			
20A(C)10X368	10	13,95	32,55	250	3500								
20A(C)11X368	11,3	15,76	36,78	250	3500	48,2	89,8		G3/4				
20A(C)12X368	12	16,92	39,48	250	3500								
20A(C)14X368	14	19,95	46,55	250	3500								
20A(C)15X368	15	21,60	36,00	250	2500								
20A(C)16X368	16	23,04	38,40	250	2500								
20A(C)19X368	19	27,36	45,60	200	2500								
20A(C)22X368	22	31,68	42,24	180	2000								
20A(C)25X368	25	36,00	48,00	160	2000								

Designed as a special version – 1 section of tandem pump 22A(C)...X380/...X381.



Type	Displacement	Flow		Pressure	max Speed	Dimension							
		at 1500 rpm	at max rpm			A	B	Inlet			Outlet		
	cm ³ /rev	l/min	l/min	P _{nom} bar	n rpm	mm	mm	E	F	d	E	F	d
20A(C)4,5X380	4,5	6,14	14,33	250	3500								
20A(C)6,3X380	6,3	8,69	20,29	250	3500								
20A(C)8,2X380	8,2	11,32	26,40	250	3500	45	85,6						
20A(C)10X380	10	13,95	32,55	250	3500								
20A(C)11X380	11,3	15,76	36,78	250	3500	47,6	90,7						
20A(C)12X380	12	16,92	39,48	250	3500								
20A(C)14X380	14	19,95	46,55	250	3500								
20A(C)15X380	15	21,60	36,00	250	2500								
20A(C)16X380	16	23,04	38,40	250	2500	51,6	98,2						
20A(C)19X380	19	27,36	45,60	200	2500								
20A(C)22X380	22	31,68	42,24	180	2000								
20A(C)25X380	25	36,00	48,00	160	2000								

Technical drawing of a circular mechanical part, likely a flange or end plate, showing dimensions and surface finish requirements.

Dimensions:

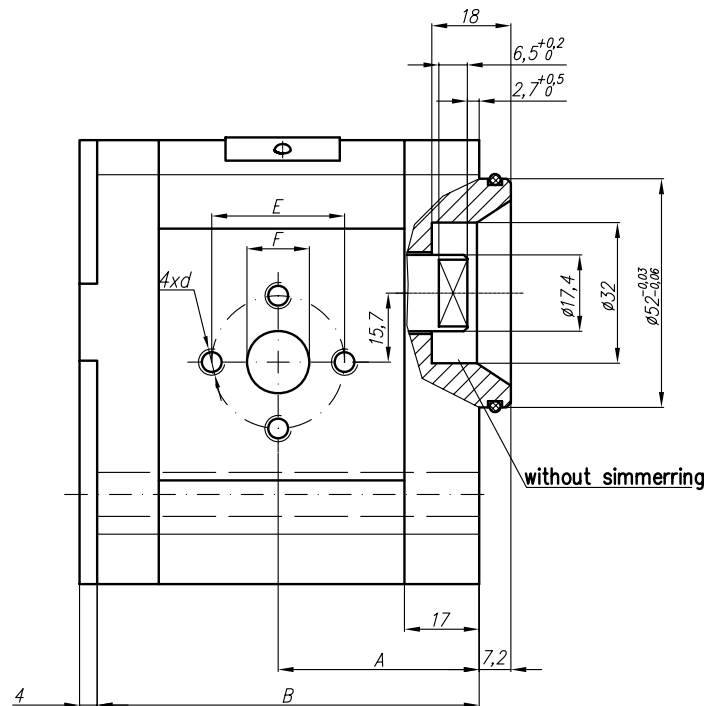
- Central hole diameter: 8
- Four mounting holes: $4 \times \varnothing 11,1$
- Flange thickness: $14,3 \pm 0,05$
- Inner diameter (excluding central hole): $60 \pm 0,1$
- Outer diameter (including flange): 86

Surface Finish:

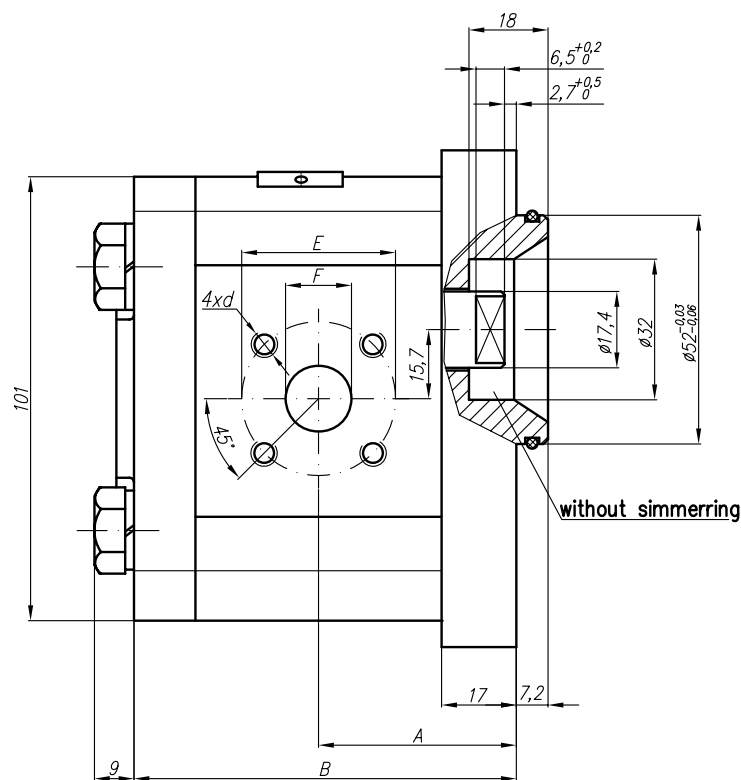
- Symbol A: Roughness symbol indicating a higher finish requirement.
- Symbol C: Roughness symbol indicating a lower finish requirement.

Geometric Features:

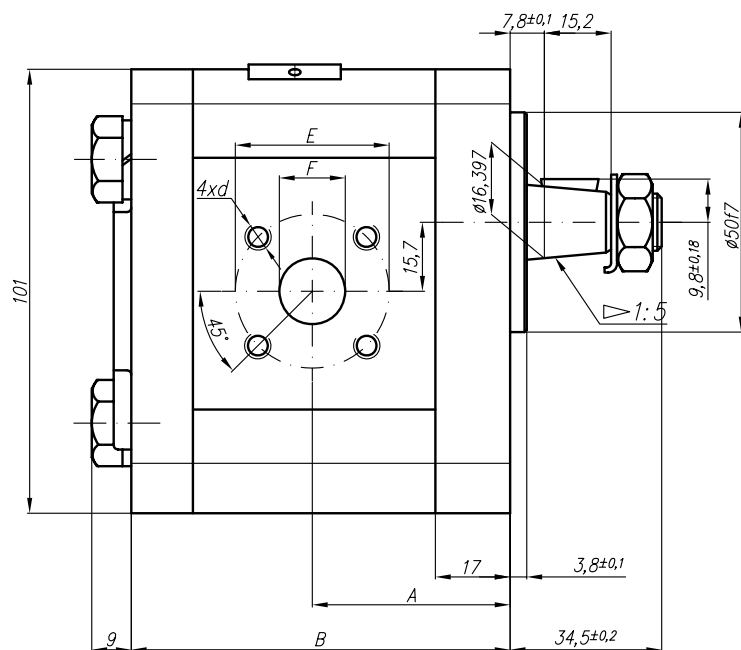
- Central hole with a keyway.
- Four mounting holes arranged in a square pattern.
- Flange with a square outer edge.



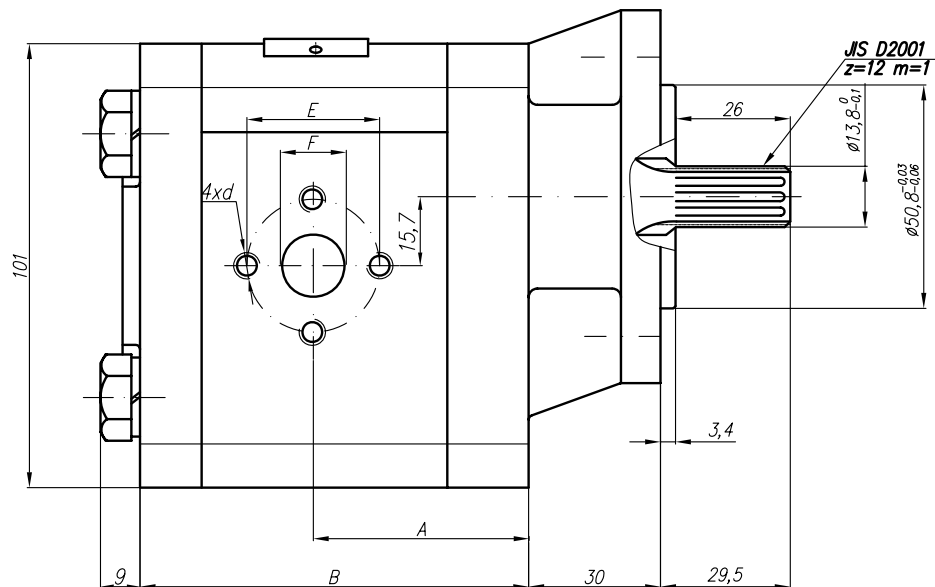
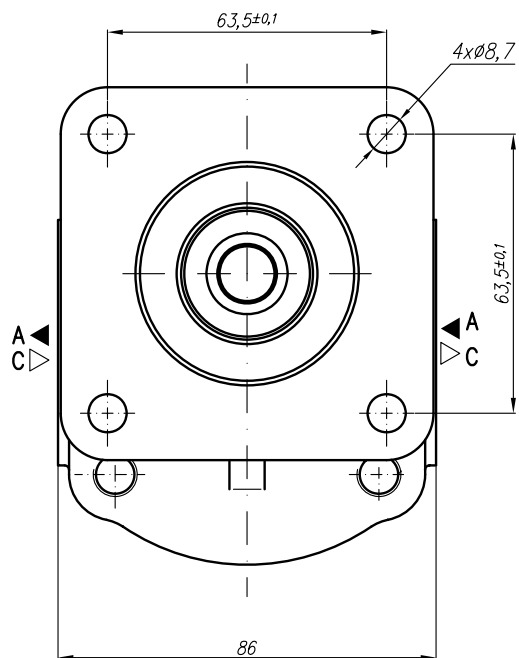
Type	Displacement	Flow		Pressure P _{nom}	max Speed n	Dimension							
		at 1500 rpm	at max rpm			A	B	Inlet			Outlet		
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	E	F	d	E	F	d
20A(C)4,5X381	4,5	6,14	14,33	250	3500	40,5	78	40	15	M6-6H	35	15	M6-6H
20A(C)6,3X381	6,3	8,69	20,29	250	3500								
20A(C)8,2X381	8,2	11,32	26,40	250	3500	45	83,9						
20A(C)10X381	10	13,95	32,55	250	3500	45	87						
20A(C)11X381	11,3	15,76	36,78	250	3500								
20A(C)12X381	12	16,92	39,48	250	3500								
20A(C)14X381	14	19,95	46,55	250	3500								
20A(C)15X381	15	21,60	36,00	250	2500								
20A(C)16X381	16	23,04	38,40	250	2500								
20A(C)19X381	19	27,36	45,60	200	2500								
20A(C)22X381	22	31,68	42,24	180	2000								
20A(C)25X381	25	36,00	48,00	160	2000								



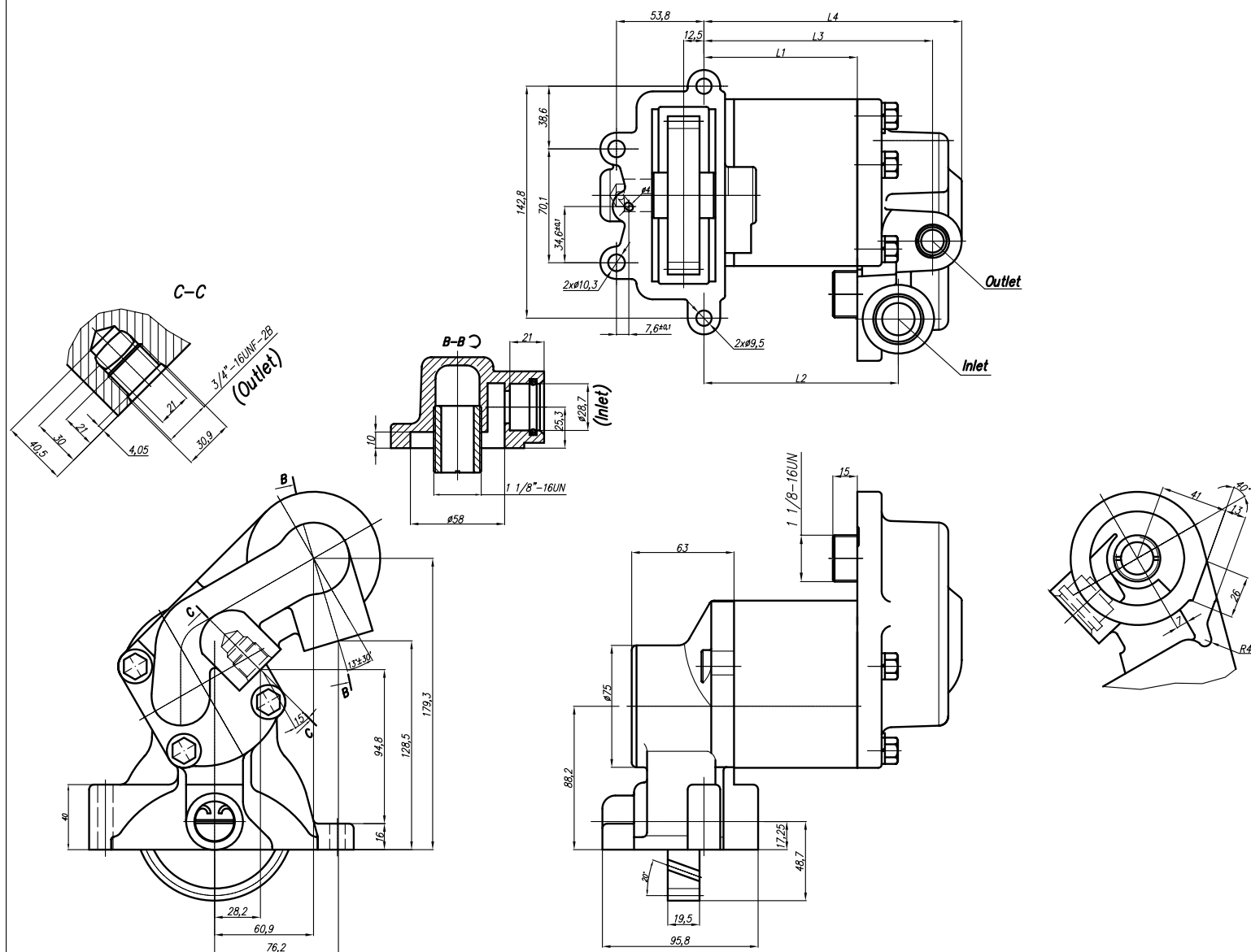
Type	Displacement	Flow		Pressure P _{nom}	max Speed n	Dimension							
		at 1500 rpm	at max rpm			A	B	Inlet			Outlet		
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	E	F	d	E	F	d
20A(C)4,5X398	4,5	6,14	14,33	250	3500	37,3	75,1	40	15	M6-6H	35	15	M6-6H
20A(C)6,3X398	6,3	8,69	20,29	250	3500	38,6	78		20				
20A(C)8,2X398	8,2	11,32	26,40	250	3500	40,6	78						
20A(C)10X398	10	13,95	32,55	250	3500	45	87						
20A(C)11X398	11,3	15,76	36,78	250	3500	45	89,1						
20A(C)12X398	12	16,92	39,48	250	3500	45	90,3						
20A(C)14X398	14	19,95	46,55	250	3500	45	93,4						
20A(C)15X398	15	21,60	36,00	250	2500	45	94,9						
20A(C)16X398	16	23,04	38,40	250	2500	45	96,5						
20A(C)19X398	19	27,36	45,60	200	2500	45	101,5						
20A(C)22X398	22	31,68	42,24	180	2000	52,5	106,5						
20A(C)25X398	25	36,00	48,00	160	2000	57,2	111,4						



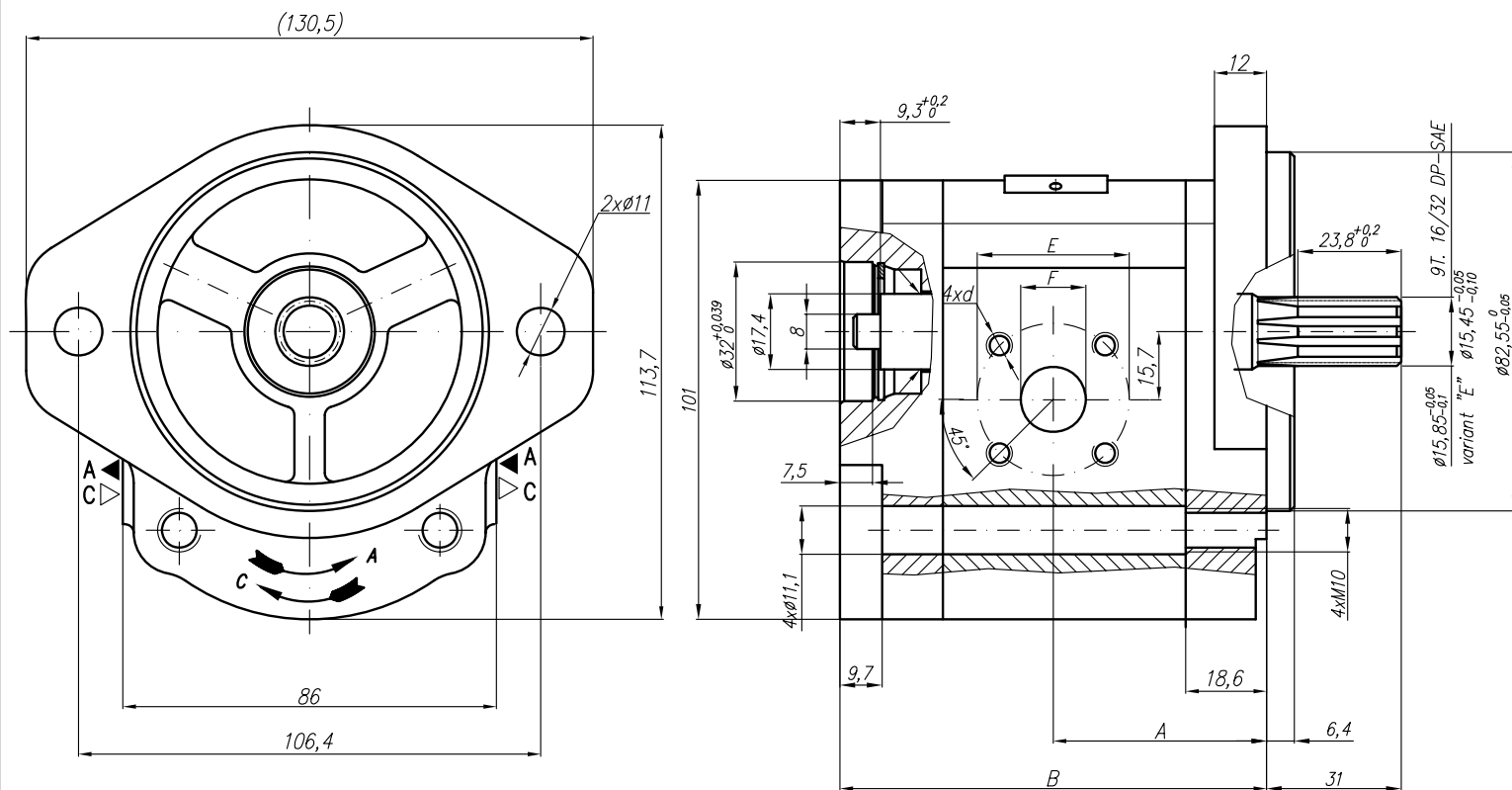
Type	Displacement	Flow		Pressure P _{nom}	max Speed n	Dimension							
		at 1500 rpm	at max rpm			A	B	Inlet			Outlet		
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	E	F	d	E	F	d
20A(C)4,5X402	4,5	6,14	14,33	250	3500			40	15	M6-6H	35	15	M6-6H
20A(C)6,3X402	6,3	8,69	20,29	250	3500								
20A(C)8,2X402	8,2	11,32	26,40	250	3500	43	83,9						
20A(C)10X402	10	13,95	32,55	250	3500								
20A(C)11X402	11,3	15,76	36,78	250	3500	43	89,1						
20A(C)12X402	12	16,92	39,48	250	3500								
20A(C)14X402	14	19,95	46,55	250	3500								
20A(C)15X402	15	21,60	36,00	250	2500								
20A(C)16X402	16	23,04	38,40	250	2500	43	96,5						
20A(C)19X402	19	27,36	45,60	200	2500								
20A(C)22X402	22	31,68	42,24	180	2000								
20A(C)25X402	25	36,00	48,00	160	2000								



Type	Displacement	Flow		Pressure	max Speed	Dimension							
		at 1500 rpm	at max rpm			A	B	Inlet			Outlet		
	cm ³ /rev	l/min	l/min	P _{nom} bar	n rpm	mm	mm	E	F	d	E	F	d
20A(C)4,5X404	4,5	6,14	14,33	250	3500								
20A(C)6,3X404	6,3	8,69	20,29	250	3500								
20A(C)8,2X404	8,2	11,32	26,40	250	3500								
20A(C)10X404	10	13,95	32,55	250	3500								
20A(C)11X404	11,3	15,76	36,78	250	3500	75,5	120,5						
20A(C)12X404	12	16,92	39,48	250	3500								
20A(C)14X404	14	19,95	46,55	250	3500								
20A(C)15X404	15	21,60	36,00	250	2500								
20A(C)16X404	16	23,04	38,40	250	2500								
20A(C)19X404	19	27,36	45,60	200	2500								
20A(C)22X404	22	31,68	42,24	180	2000								
20A(C)25X404	25	36,00	48,00	160	2000								

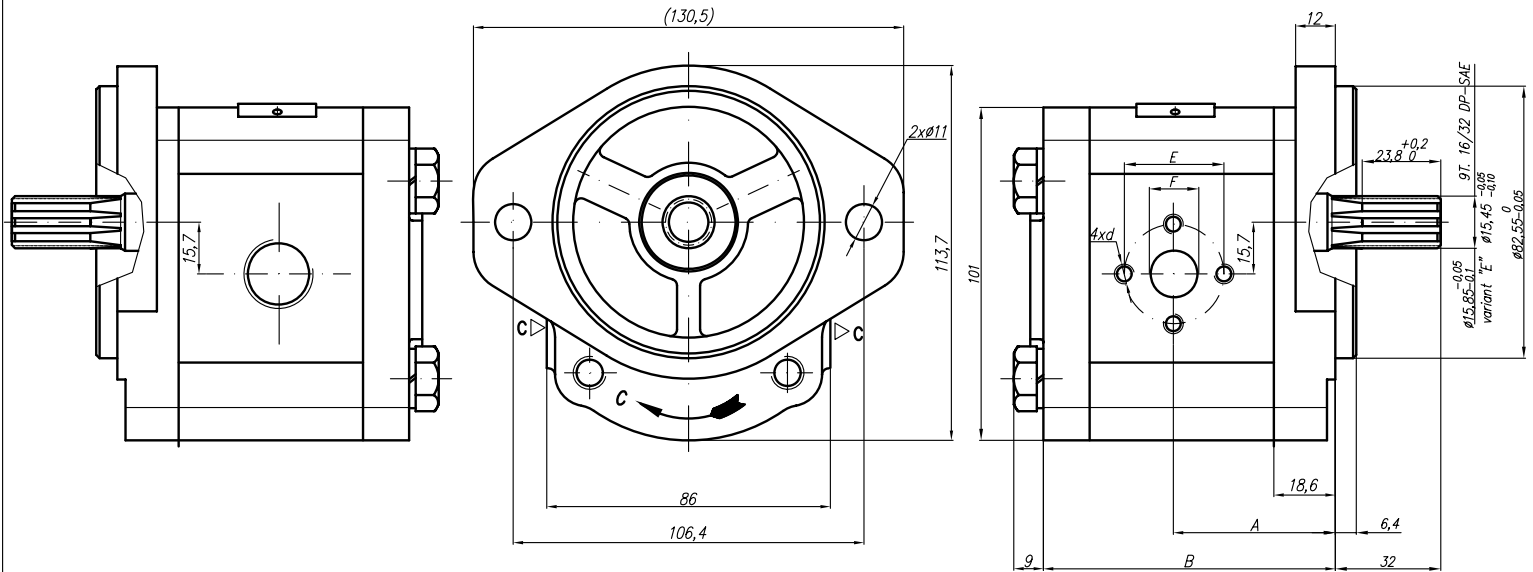


Type	Displacement	Flow		Pressure	max Speed	Dimension					
		at 1500 rpm	at max rpm			L1	L2	L3	L4	Inlet	Outlet
	cm ³ /rev	l/min	l/min	P _{nom}	n	mm	mm	mm	mm	d	U
20C15X409HF	15	20,48	34,13	250	2500	92,7	118	139	157	28,7	3/4"-16UNF-2B
20C16X409HF	16	22,08	36,80	250	2500	94,3	119,6	141	159		
20C17,3X409HF	17,3	23,87	39,79	230	2500	96,4	121,7	143	161		
20C18,2X409HF	18,2	25,39	42,32	200	2500	98	123,3	144	162		
20C19X409HF	19	26,51	44,18	200	2500	99,3	124,6	146	164		
20C22X409HF	22	31,02	41,36	180	2000						
20C25X409HF	25	35,63	47,50	160	2000						
20C28X409HF	28	40,32	53,76	120	2000						
20C32X409HF	32	46,08	46,08	100	1500						
20C36X409HF	36	51,84	51,84	80	1500						

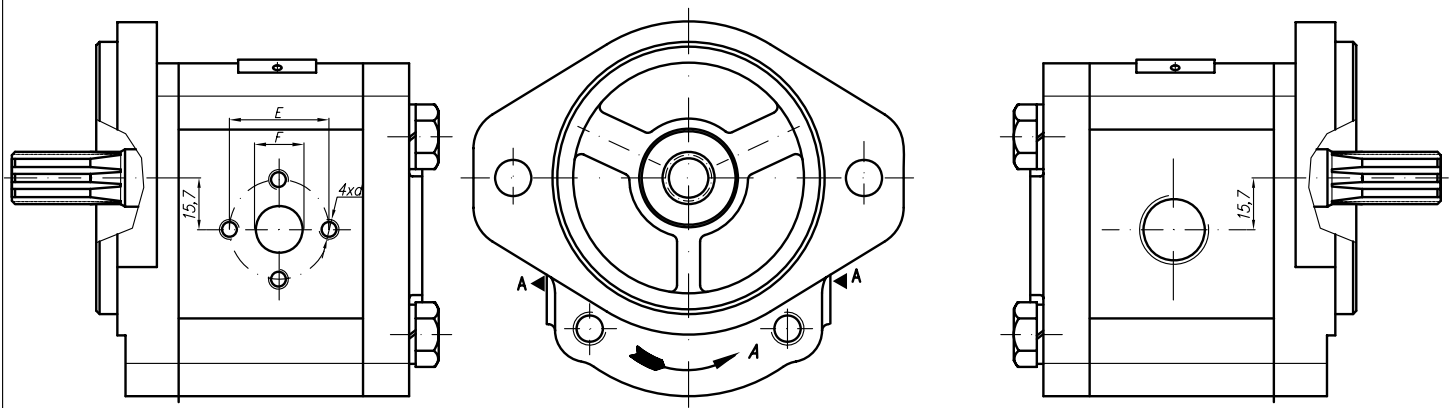


Type	Displacement	Flow		Pressure	max Speed	Dimension							
		at 1500 rpm	at max rpm			P _{nom}	n	A	B	Inlet			Outlet
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	E	F	d	E	F	d
20A(C)4,5X413	4,5	6,14	14,33	250	3500			40	15	M6-6H	35	15	M6-6H
20A(C)6,3X413	6,3	8,69	20,29	250	3500	42,1	86,8						
20A(C)8,2X413	8,2	11,32	26,40	250	3500								
20A(C)10X413	10	13,95	32,55	250	3500								
20A(C)11X413	11,3	15,76	36,78	250	3500								
20A(C)12X413	12	16,92	39,48	250	3500								
20A(C)14X413	14	19,95	46,55	250	3500								
20A(C)15X413	15	21,60	36,00	250	2500								
20A(C)16X413	16	23,04	38,40	250	2500								
20A(C)19X413	19	27,36	45,60	200	2500								
20A(C)22X413	22	31,68	42,24	180	2000								
20A(C)25X413	25	36,00	48,00	160	2000								

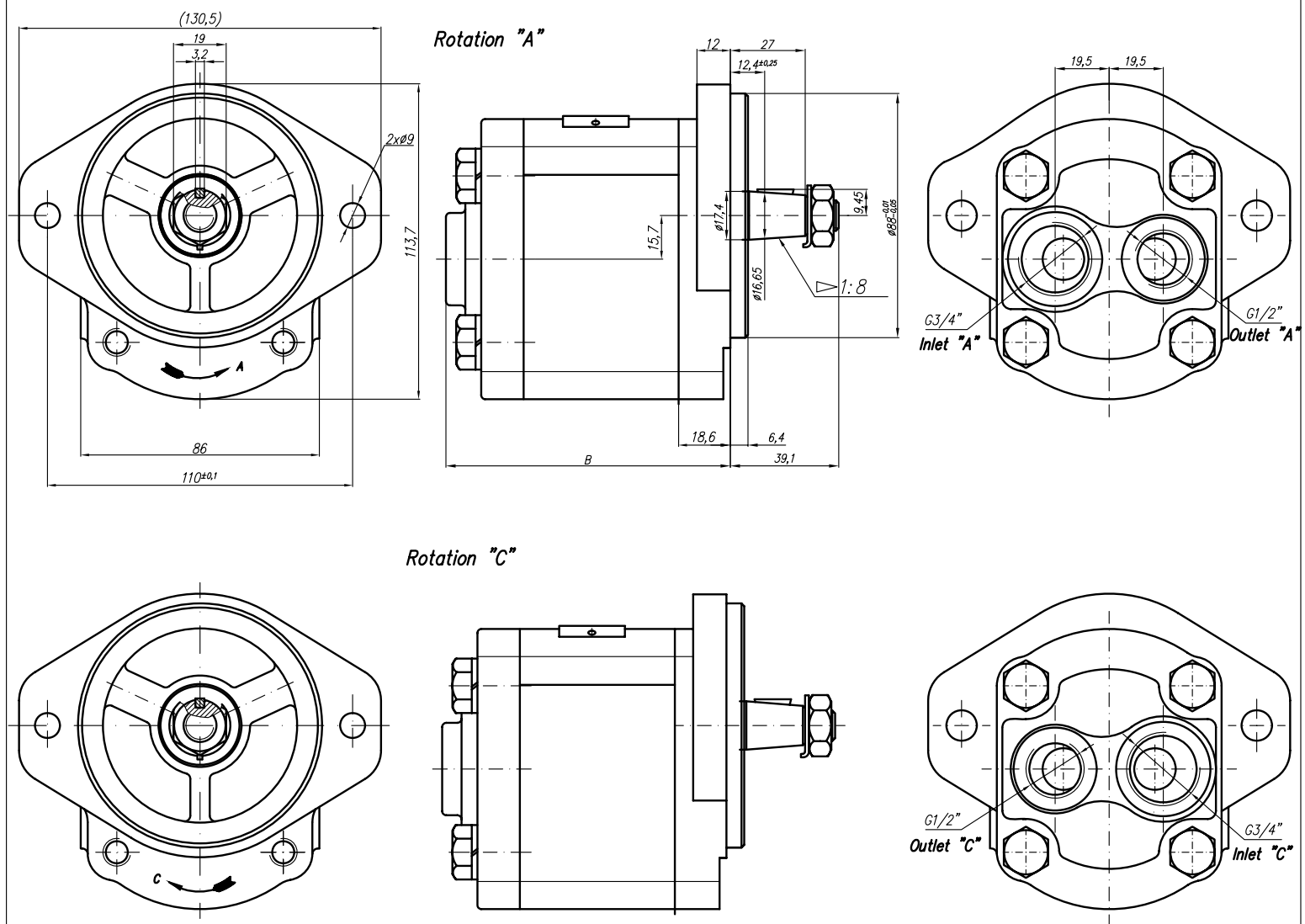
Rotation "C"



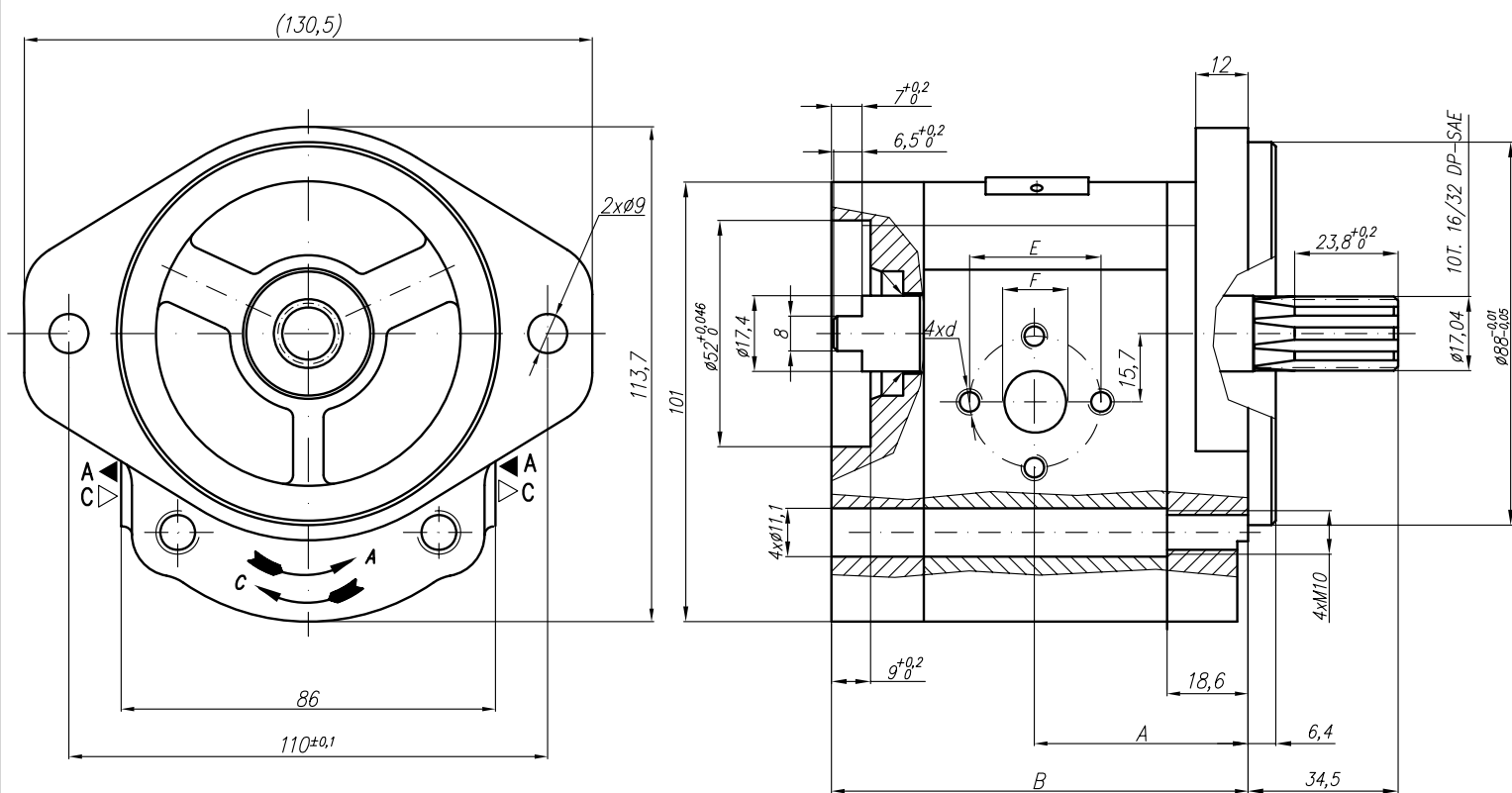
Rotation "A"



Type	Displacement	Flow		Pressure	max Speed	Dimension							
		at 1500 rpm	at max rpm			P _{nom}	n	A	B	Inlet			Outlet
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	E	F	d	M	G	U
20A(C)4,5X419	4,5	6,14	14,33	250	3500	42,1	79,6	30,2	13,1	M6-6H		G1/2	
20A(C)6,3X419	6,3	8,69	20,29	250	3500	42,1	79,6						
20A(C)8,2X419	8,2	11,32	26,40	250	3500	42,1	79,6						
20A(C)10X419	10	13,95	32,55	250	3500	46,6	88,7	39,7	19	M8-6H			
20A(C)11X419	11,3	15,76	36,78	250	3500	47,6	90,7						
20A(C)12X419	12	16,92	39,48	250	3500	48,2	91,9						
20A(C)14X419	14	19,95	46,55	250	3500	49,6	95						
20A(C)15X419	15	21,60	36,00	250	2500	50,6	96,5						
20A(C)16X419	16	23,04	38,40	250	2500	51,6	98,2						
20A(C)19X419	19	27,36	45,60	200	2500	53,6	103,1						
20A(C)22X419	22	31,68	42,24	180	2000	56,6	108,1						
20A(C)25X419	25	36,00	48,00	160	2000	58,8	113						



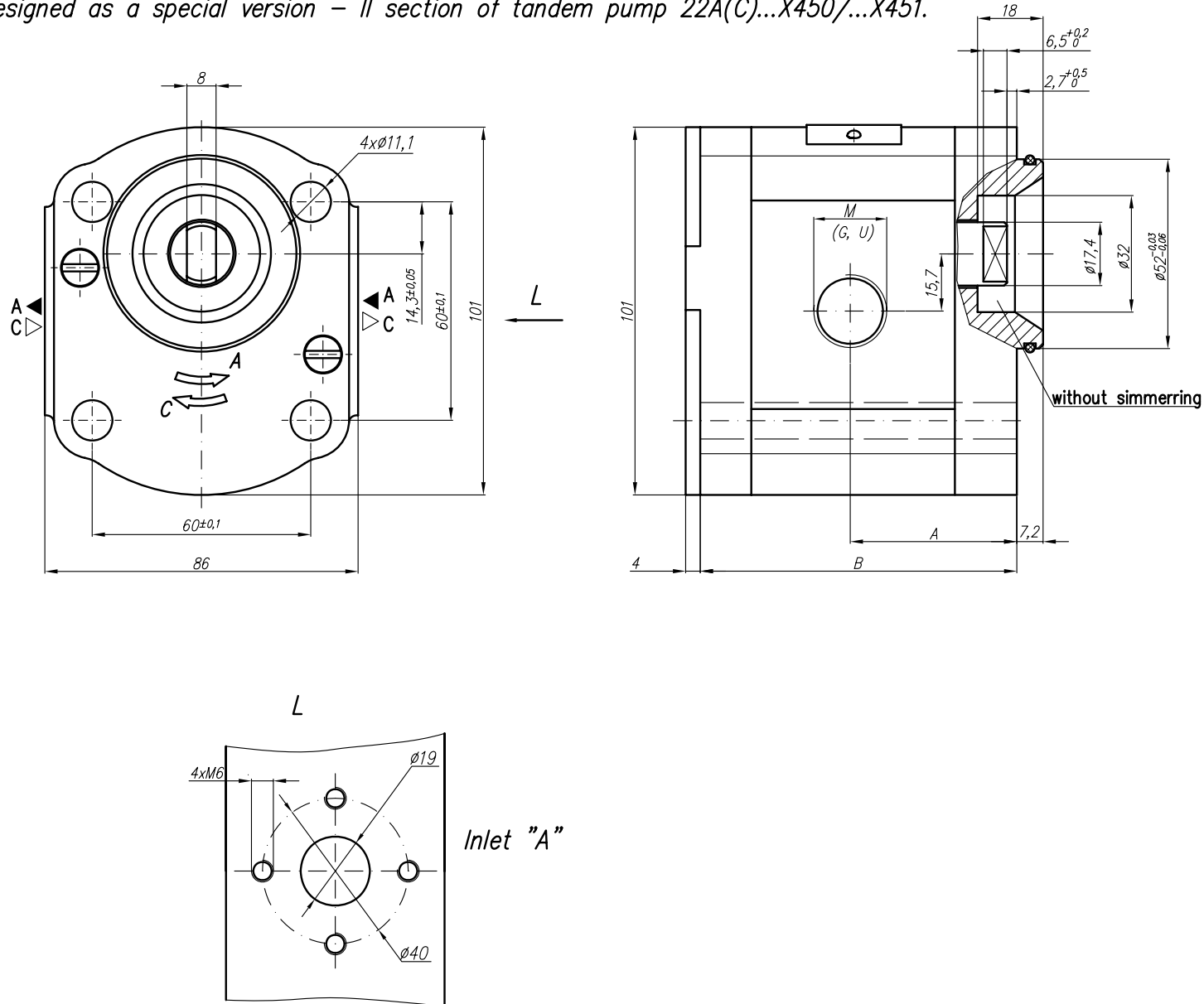
Type	Displacement	Flow		Pressure	max Speed	Dimension							
		at 1500 rpm	at max rpm			A	B	Inlet			Outlet		
	cm ³ /rev	l/min	l/min	P _{nom} bar	n rpm	mm	mm	M	G	G1	M	G	G1
20A(C)4,5X423VW	4,5	6,14	14,33	250	3500		93,6						
20A(C)6,3X423VW	6,3	8,69	20,29	250	3500		96,6						
20A(C)8,2X423VW	8,2	11,32	26,40	250	3500		99,5						
20A(C)10X423VW	10	13,95	32,55	250	3500		102,5						
20A(C)11X423VW	11,3	15,76	36,78	250	3500		104,6						
20A(C)12X423VW	12	16,92	39,48	250	3500		105,9						
20A(C)14X423VW	14	19,95	46,55	250	3500		108,9						
20A(C)15X423VW	15	21,60	36,00	250	2500		110,5						
20A(C)16X423VW	16	23,04	38,40	250	2500		112,1						
20A(C)19X423VW	19	27,36	45,60	200	2500		117,1						
20A(C)22X423VW	22	31,68	42,24	180	2000		122,1						
20A(C)25X423VW	25	36,00	48,00	160	2000		127						



Type	Displacement	Flow		Pressure	max Speed	Dimension										
		at 1500 rpm	at max rpm			P _{nom}	n	A	B	Inlet			Outlet			
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	E	F	d	E	F	d			
20A(C)4,5X429V	4,5	6,14	14,33	250	3500	42,5	87,2	30,2	13,1	M6-6H	30,2	13,1	M6-6H			
20A(C)6,3X429V	6,3	8,69	20,29	250	3500	42,5	87,2									
20A(C)8,2X429V	8,2	11,32	26,40	250	3500	42,5	87,2									
20A(C)10X429V	10	13,95	32,55	250	3500	47	96,2	39,7	19	M8-6H						
20A(C)11X429V	11,3	15,76	36,78	250	3500	48	98,3									
20A(C)12X429V	12	16,92	39,48	250	3500	48,7	99,5									
20A(C)14X429V	14	19,95	46,55	250	3500	50,2	102,5									
20A(C)15X429V	15	21,60	36,00	250	2500	51	104,1									
20A(C)16X429V	16	23,04	38,40	250	2500	51,8	105,8									
20A(C)19X429V	19	27,36	45,60	200	2500	54	110,7									
20A(C)22X429V	22	31,68	42,24	180	2000	56,5	115,7									
20A(C)25X429V	25	36,00	48,00	160	2000	58,8	120,6							39,7	19	M8

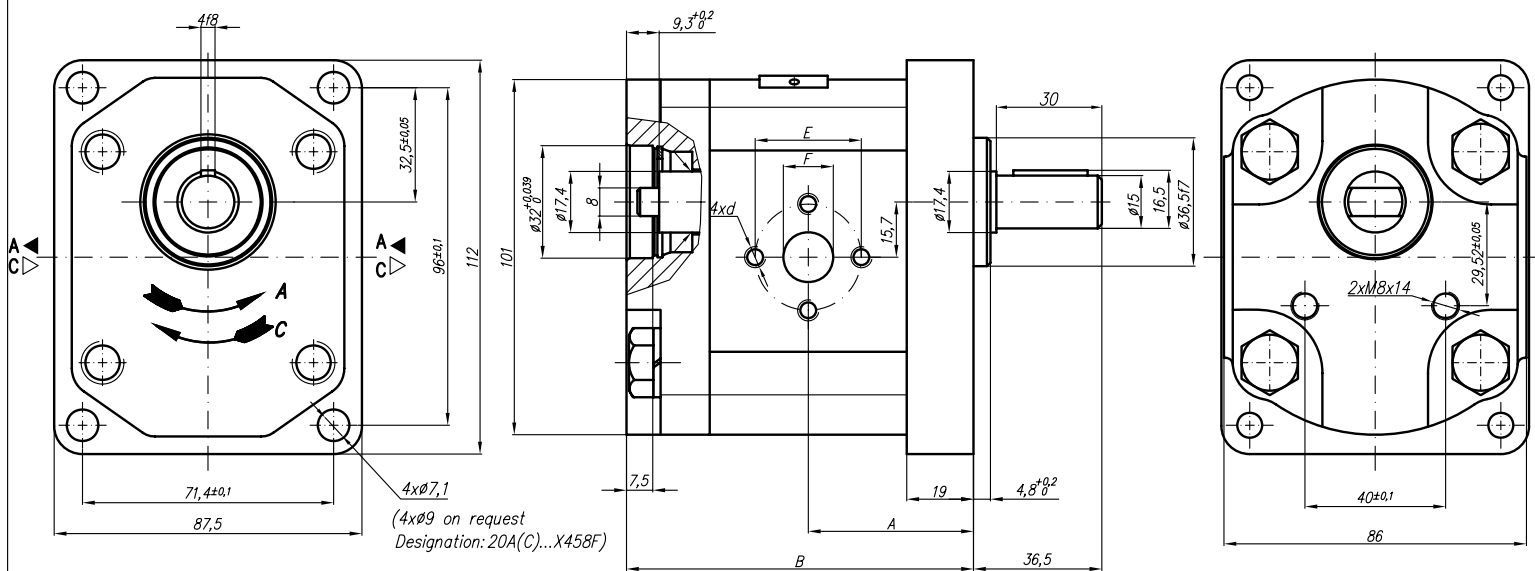
Type	Displacement	Flow		Pressure P _{nom}	max Speed n	Dimension							
		at 1500 rpm	at max rpm			A	B	Inlet			Outlet		
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	E	F	d	M	G	U
20A(C)15X450	15	21,60	36,00	250(175*)	2500	51	104,1	40	19	M6-6H		G3/8	
20A(C)16X450	16	23,04	38,40	250(175*)	2500	51	105,7						
20A(C)25X450	25	36,00	48,00	160(100*)	2000	59,2	120,6						

Designed as a special version – II section of tandem pump 22A(C)...X450/...X451.

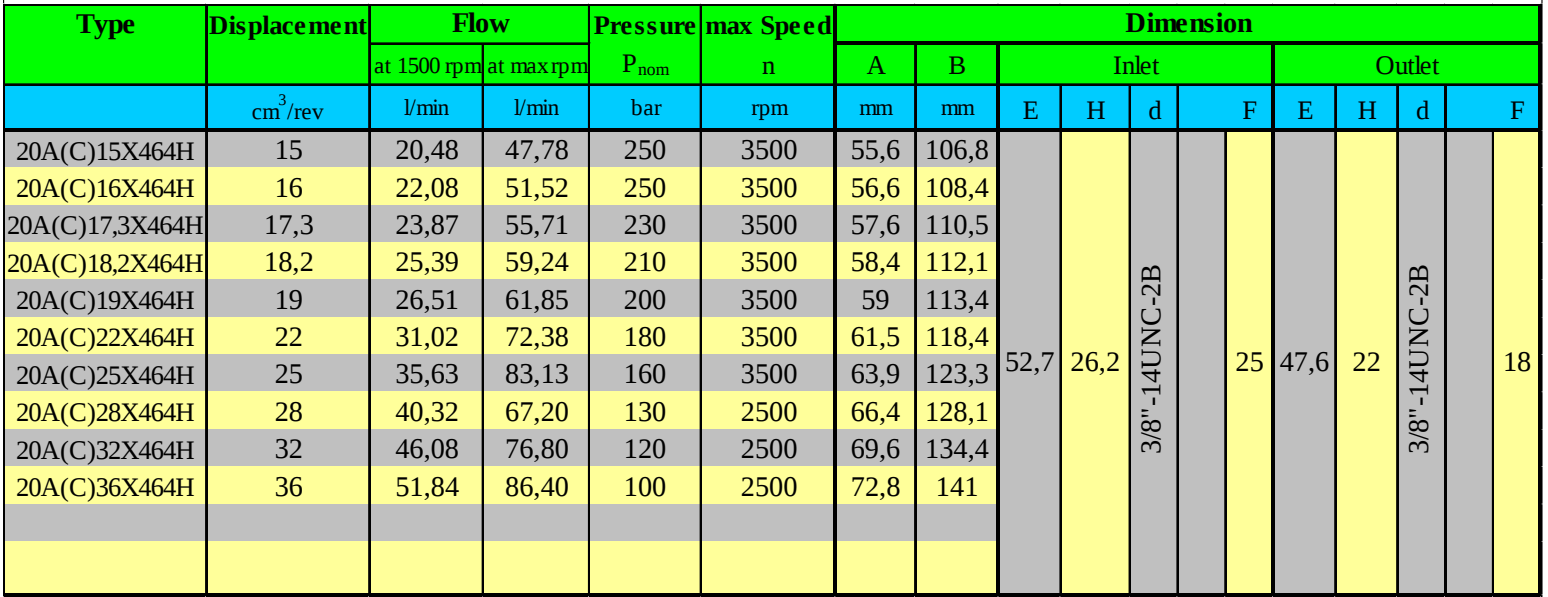


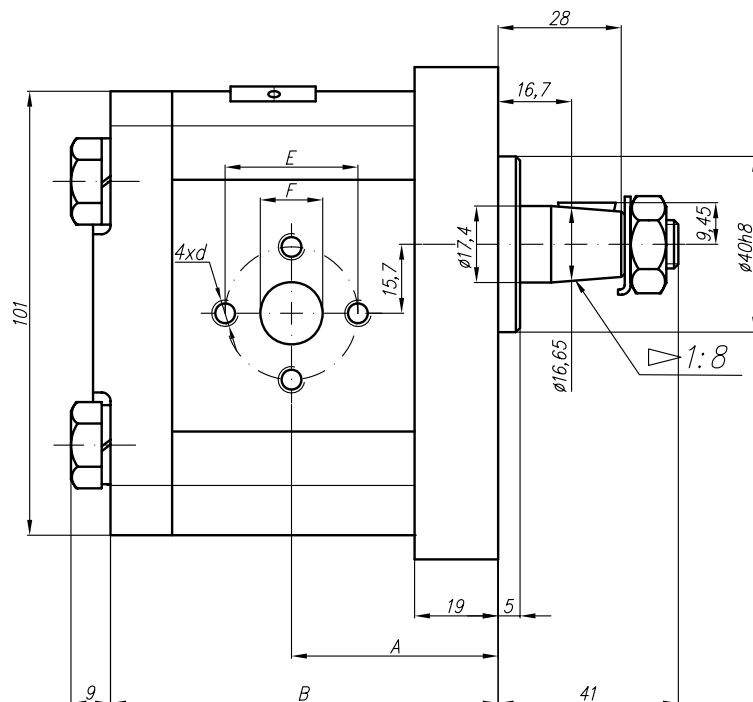
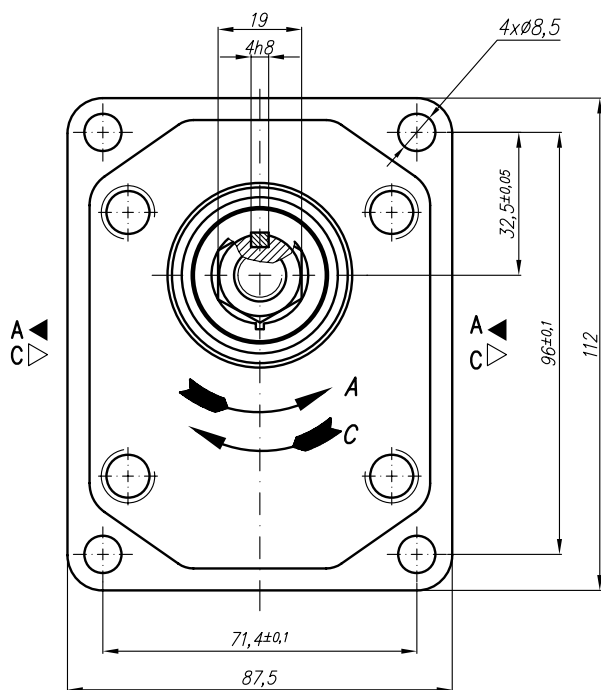
* These pressures recommended for direct drive with gear.

Type	Displacement	Flow		Pressure P _{nom}	max Speed n	Dimension							
		at 1500 rpm	at max rpm			A	B	Inlet			Outlet		
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	E	F	d	M	G	U
20A(C)11X451	11,3	15,76	26,27	250(175*)	2500	46	89	40	19	M6-6H		G3/8	
20A(C)15X451	15	21,60	36,00	250(175*)	2500	49	94,9						
20A(C)16X451	16	23,04	38,40	250(175*)	2500	49	96,5						
20A(C)25X451	25	36,00	48,00	160(100*)	2000	57,2	111,4						



Type	Displacement	Flow		Pressure	max Speed	Dimension									
		at 1500 rpm	at max rpm			P _{nom}	n	A	B	Inlet			Outlet		
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	E	F	d	E	F	d		
20A(C)4,5X458	4,5	6,14	14,33	250	3500	42,5	89,7	30,2	13,1	M6-6H	30,2	13,1	M6-6H		
20A(C)6,3X458	6,3	8,69	20,29	250	3500	42,5	89,7								
20A(C)8,2X458	8,2	11,32	26,40	250	3500	42,5	89,7								
20A(C)10X458	10	13,95	32,55	250	3500	47	98,7	39,7	19	M8-6H		30,2		14,2	M6-6H
20A(C)11X458	11,3	15,76	36,78	250	3500	48	100,7								
20A(C)12X458	12	16,92	39,48	250	3500	48,6	102								
20A(C)14X458	14	19,95	46,55	250	3500	50	105,1								
20A(C)15X458	15	21,60	36,00	250	2500	51	106,6								
20A(C)16X458	16	23,04	38,40	250	2500	52	108,3								
20A(C)19X458	19	27,36	45,60	200	2500	54	113,2								
20A(C)22X458	22	31,68	42,24	180	2000	57	118,2								
20A(C)25X458	25	36,00	48,00	160	2000	59,2	123,1				39,7		19		





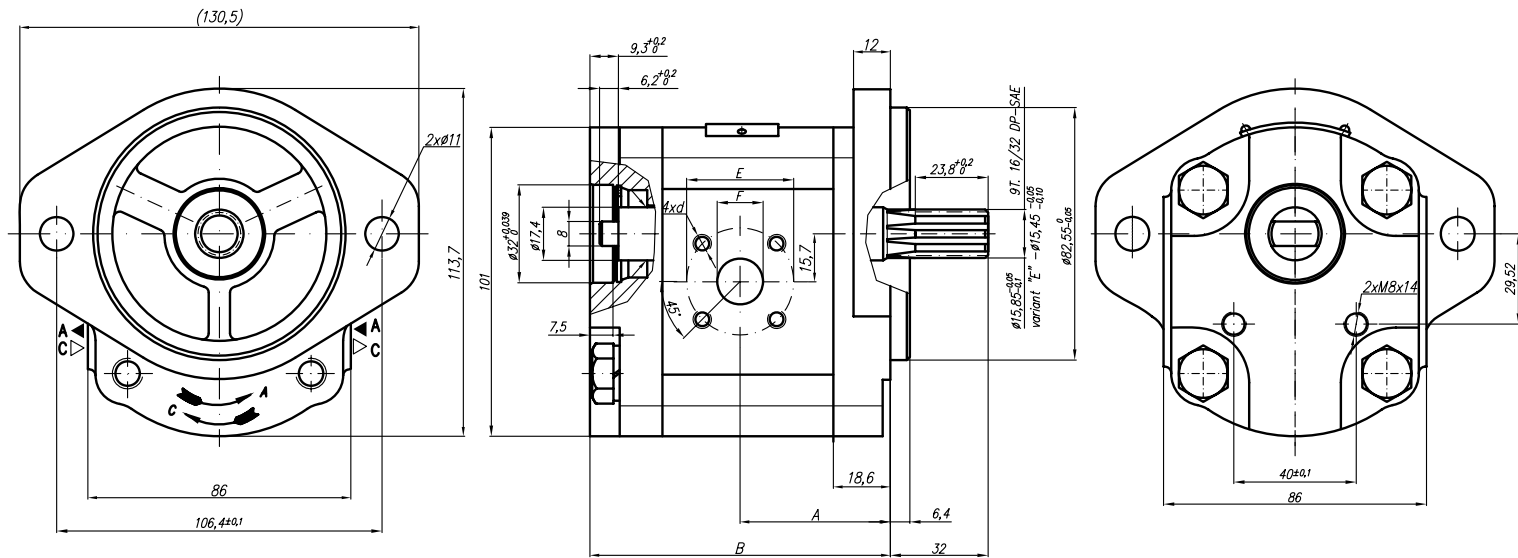
Type	Displacement	Flow		Pressure	max Speed	Dimension							
		at 1500 rpm	at max rpm			A	B	Inlet			Outlet		
	cm ³ /rev	l/min	l/min	P _{nom}	n	mm	mm	E	F	d	E	F	d
20A(C)4,5X466	4,5	6,14	14,33	250	3500								
20A(C)6,3X466	6,3	8,69	20,29	250	3500								
20A(C)8,2X466	8,2	11,32	26,40	250	3500								
20A(C)10X466	10	13,95	32,55	250	3500								
20A(C)11X466	11,3	15,76	36,78	250	3500								
20A(C)12X466	12	16,92	39,48	250	3500								
20A(C)14X466	14	19,95	46,55	250	3500	52,5	95,4						
20A(C)15X466	15	21,60	36,00	250	2500								
20A(C)16X466	16	23,04	38,40	250	2500	52,5	98,5						
20A(C)19X466	19	27,36	45,60	200	2500								
20A(C)22X466	22	31,68	42,24	180	2000								
20A(C)25X466	25	36,00	48,00	160	2000								
20A(C)14X466HS	14	20,16	47,04	250	3500								
20A(C)15X466HS	15	21,60	36,00	250	2500								
20A(C)16X466HS	16	23,04	38,40	250	2500	62	108,8						
20A(C)17,3X466HS	17,3	24,91	41,52	230	2500	62	111						
20A/C17,3X466HS2	17,3	24,91	41,52	200	2500	58	111						
	19	27,36	45,60	200	2500								

...X467 – Normal version (flanges);
...X467M – Metric threads;
...X467G – GAS threads;
...X467U – SAE UNF threads;

Figure 1 shows three diagrams of test specimens. (a) A side view of a cylindrical specimen with diameter $M(G)$. (b) A top view of a cylindrical specimen with diameter U . (c) A cross-section of a SAE J475 (ISO R725) specimen showing a central hole and a diameter U .

Type	Displacement	Flow		Pressure P _{nom}	max Speed n	Dimension													
		at 1500 rpm	at max rpm			A	B	Inlet				Outlet							
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	E	F	d	M	G	U	E	F	d	M	G	U
20A(C)4,5X467...	4,5	6,14	14,33	250	3500	42,1	89,3	30,2	13,1	M6-6H	M20x1,5	G1/2	1 1/16"-12UNF	30,2	13,1	M6-6H	M16x1,5	G1/2	7/8"-14UNF
20A(C)6,3X467...	6,3	8,69	20,29	250	3500	42,1	89,3												
20A(C)8,2X467...	8,2	11,32	26,40	250	3500	42,1	89,3												
20A(C)10X467...	10	13,95	32,55	250	3500	46,6	98,2												
20A(C)11X467...	11,3	15,76	36,78	250	3500	47,6	100,3												
20A(C)12X467...	12	16,92	39,48	250	3500	48,2	101,6												
20A(C)14X467...	14	19,95	46,55	250	3500	49,8	104,7												
20A(C)15X467...	15	21,60	36,00	250	2500	50,6	106,2												
20A(C)16X467...	16	23,04	38,40	250	2500	51,4	107,8												
20A(C)19X467...	19	27,36	45,60	200	2500	54	112,8												
20A(C)22X467...	22	31,68	42,24	180	2000	56,5	117,8												
20A(C)25X467...	25	36,00	48,00	160	2000	58,8	122,7												

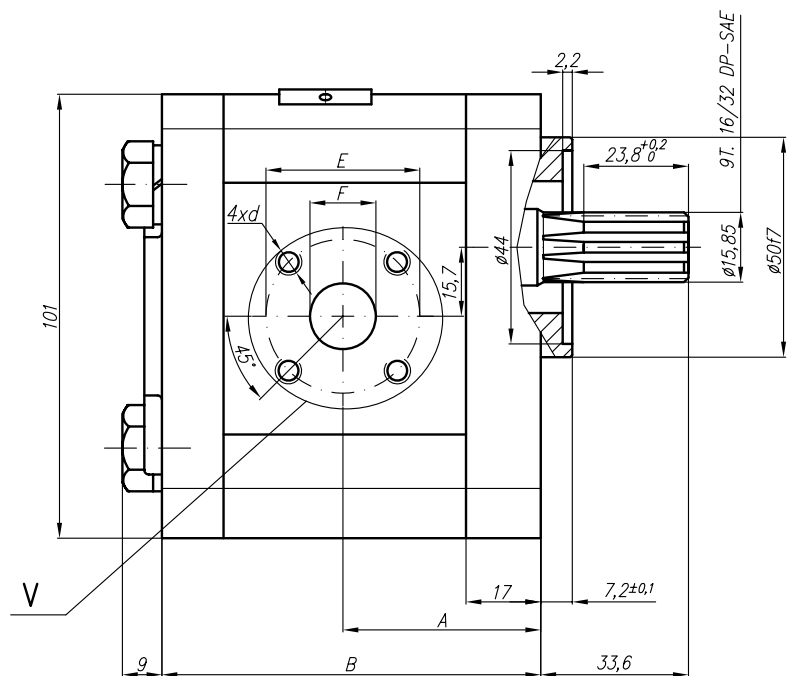
Designed as a first section of tandem pumps group 21A(C)...X478/... (II group/I group).



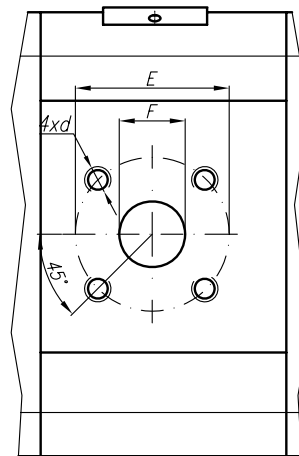
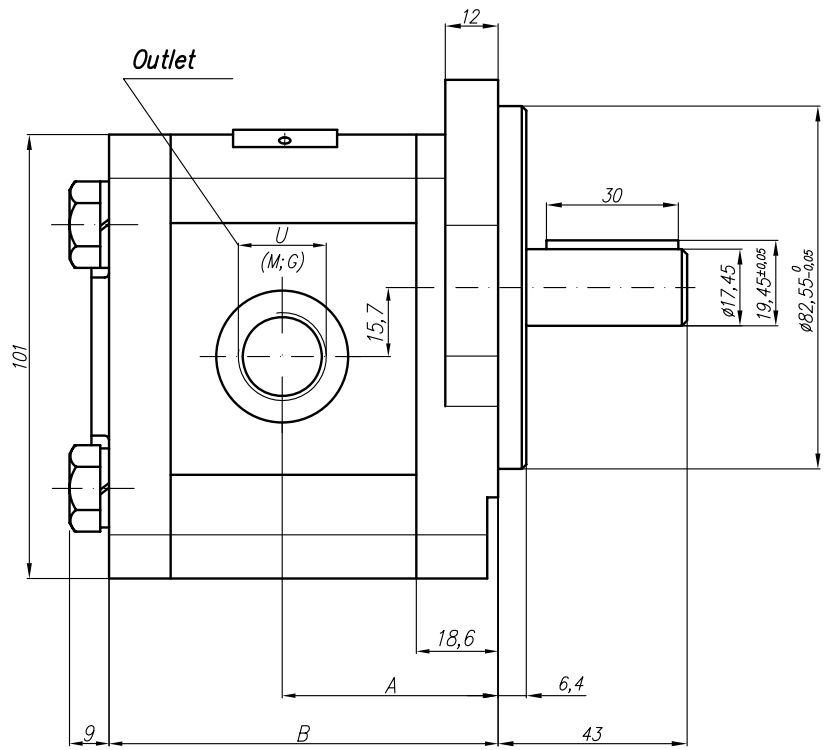
Type	Displacement	Flow		Pressure P _{nom}	max Speed n	Dimension							
		at 1500 rpm	at max rpm			A	B	Inlet			Outlet		
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	E	F	d	E	F	d
20A(C)4,5X478	4,5	6,14	14,33	250	3500	42,1	89,3	40	15	M6-6H	35	15	M6-6H
20A(C)6,3X478	6,3	8,69	20,29	250	3500	43,6	92,3						
20A(C)8,2X478	8,2	11,32	26,40	250	3500	45,1	95,2						
20A(C)10X478	10	13,95	32,55	250	3500	46,6	98,2						
20A(C)11X478	11,3	15,76	36,78	250	3500	47,6	100,3						
20A(C)12X478	12	16,92	39,48	250	3500	48,2	101,6						
20A(C)14X478	14	19,95	46,55	250	3500	49,6	104,7						
20A(C)15X478	15	21,60	36,00	250	2500	50,6	106,2						
20A(C)16X478	16	23,04	38,40	250	2500	51,6	107,8						
20A(C)19X478	19	27,36	45,60	200	2500	53,6	112,8						
20A(C)22X478	22	31,68	42,24	180	2000	56,6	117,8						
20A(C)25X478	25	36,00	48,00	160	2000	58,8	122,7						

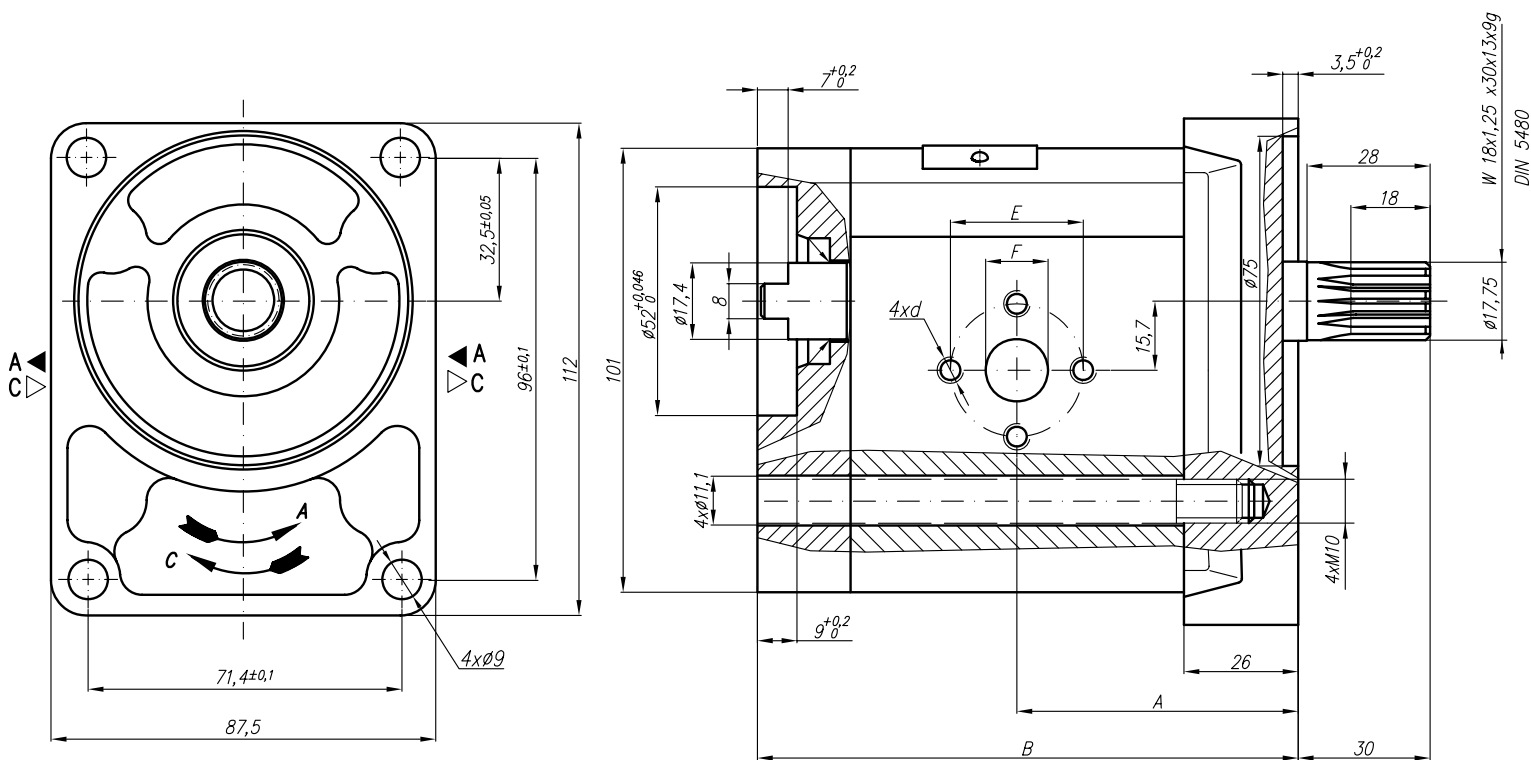
Type	Displacement	Flow		Pressure	max Speed	Dimension							
		at 1500 rpm	at max rpm			P _{nom}	n	A	B	Inlet			Outlet
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	M	G	U	M	G	U
20A(C)4,5X494...	4,5	6,14	14,33	250	3500			M20x1,5	G1/2	1 1/16-12UNF-2B	M16x1,5	G1/2	7/8-14UNF-2B
20A(C)6,3X494...	6,3	8,69	20,29	250	3500								
20A(C)8,2X494...	8,2	11,32	26,40	250	3500	45	87,5						
20A(C)10X494...	10	13,95	32,55	250	3500				G3/4				
20A(C)11X494...	11,3	15,76	36,78	250	3500								
20A(C)12X494...	12	16,92	39,48	250	3500								
20A(C)14X494...	14	19,95	46,55	250	3500	49,8	97						
20A(C)15X494...	15	21,60	36,00	250	2500	50,6	98,5						
20A(C)16X494...	16	23,04	38,40	250	2500	49,8	100,1						
20A(C)19X494...	19	27,36	45,60	200	2500	53,6	105,1						
20A(C)22X494...	22	31,68	42,24	180	2000								
20A(C)25X494...	25	36,00	48,00	160	2000								

Type	Displacement	Flow		Pressure P _{nom}	max Speed n	Dimension							
		at 1500 rpm	at max rpm			A	B	Inlet			Outlet		
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	M	G	U	M	G	U
20A(C)4,5X495..	4,5	6,14	14,33	250	3500						M16x1,5	G1/2	7/8-14UNF-2B
20A(C)6,3X495..	6,3	8,69	20,29	250	3500								
20A(C)8,2X495..	8,2	11,32	26,40	250	3500	36,6	74						
20A(C)10X495..	10	13,95	32,55	250	3500								
20A(C)11X495..	11,3	15,76	36,78	250	3500	42	85						
20A(C)12X495..	12	16,92	39,48	250	3500								
20A(C)14X495..	14	19,95	46,55	250	3500								
20A(C)15X495..	15	21,60	36,00	250	2500								
20A(C)16X495..	16	23,04	38,40	250	2500								
20A(C)19X495..	19	27,36	45,60	200	2500								
20A(C)22X495..	22	31,68	42,24	180	2000								

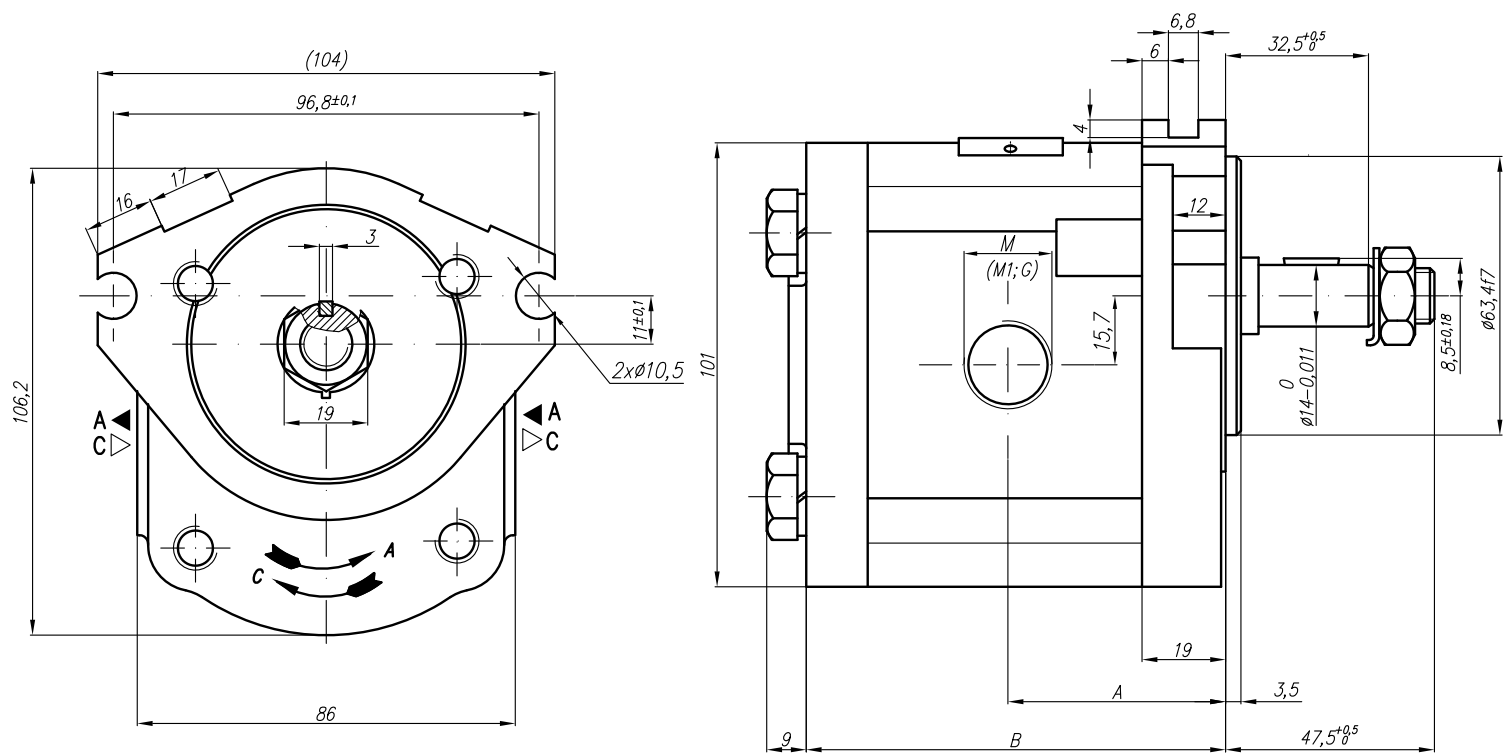


Type	Displacement	Flow		Pressure P _{nom}	max Speed n	Dimension													
		at 1500 rpm	at max rpm			A	B	Inlet				Outlet							
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	E	F	d	M	G	U	E	F	d	M	G	U
20A(C)4,5X496...	4,5	6,14	14,33	250	3500	37,3	75,1	40	15	M6-6H	M20x1,5	G1/2	1 1/16"-12UNF	35	15	M6-6H	M16x1,5	G1/2	7/8"-14UNF
20A(C)6,3X496...	6,3	8,69	20,29	250	3500	38,6	78												
20A(C)8,2X496...	8,2	11,32	26,40	250	3500	40,6	78												
20A(C)10X496...	10	13,95	32,55	250	3500	45	87												
20A(C)11X496...	11,3	15,76	36,78	250	3500	45	89,1												
20A(C)12X496...	12	16,92	39,48	250	3500	45	90,3												
20A(C)14X496...	14	19,95	46,55	250	3500	45	93,4												
20A(C)15X496...	15	21,60	36,00	250	2500	45	94,9												
20A(C)16X496...	16	23,04	38,40	250	2500	45	96,5												
20A(C)19X496...	19	27,36	45,60	200	2500	45	101,5												
20A(C)22X496...	22	31,68	42,24	180	2000	52,5	106,5												
20A(C)25X496...	25	36,00	48,00	160	2000	57,2	111,4												

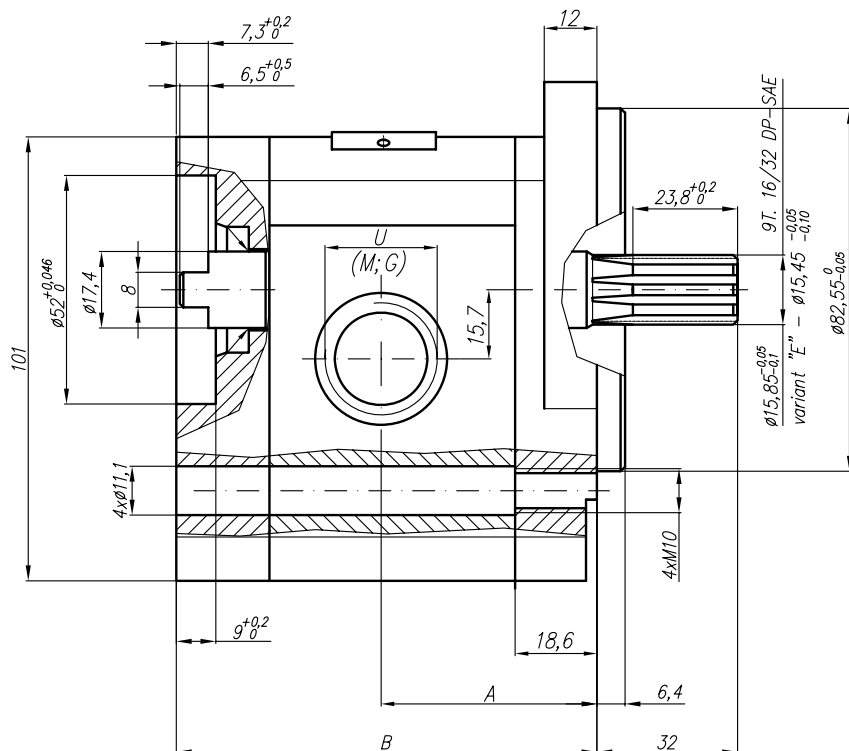
3/4"-16UNF



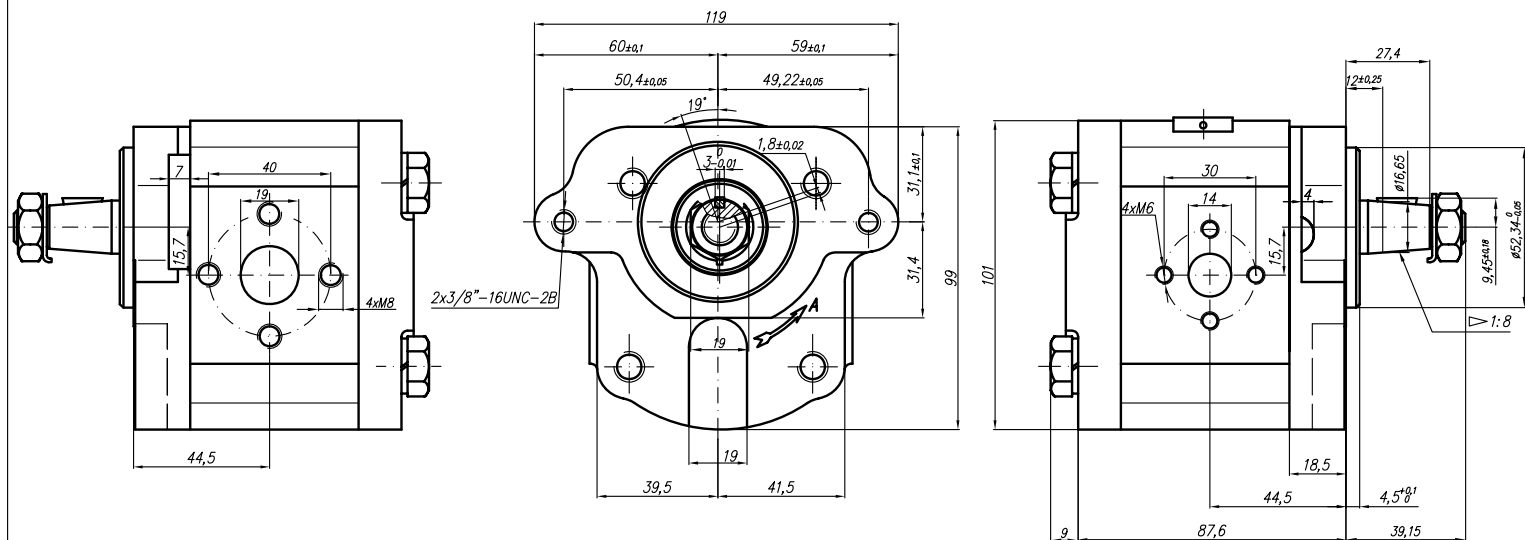
Type	Displacement	Flow		Pressure	max Speed	Dimension							
		at 1500 rpm	at max rpm			A	B	Inlet			Outlet		
	cm ³ /rev	l/min	l/min	P _{nom} bar	n rpm	mm	mm	E	F	d	M	G	U
20A(C)15X498H	15	21,60	36,00	250	2500								
20A(C)16X498H	16	23,04	38,40	250	2500	64	123						
20A(C)17,3X498H	17,3	24,91	41,52	230	2500								
20A(C)18,2X498H	18,2	26,21	43,68	200	2500								
20A(C)19X498H	19	27,36	45,60	200	2500								
20A(C)22X498H	22	31,68	42,24	180	2000	69	133						
20A(C)25X498H	25	36,00	48,00	160	2000								
20A(C)28X498H	28	40,32	53,76	120	2000								
20A(C)32X498H	32	46,08	46,08	100	1500								
20A(C)36X498H	36	51,84	51,84	80	1500								



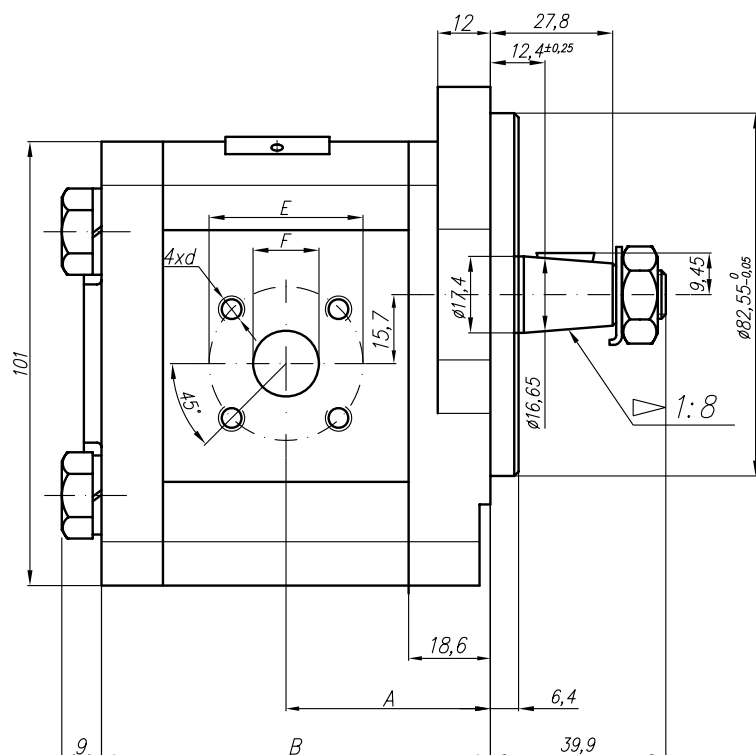
Type	Displacement	Flow		Pressure	max Speed	Dimension							
		at 1500 rpm	at max rpm			A	B	Inlet			Outlet		
	cm ³ /rev	l/min	l/min	P _{nom} bar	n rpm	mm	mm	M	M1	G	M	M1	G
20A(C)4,5X511...	4,5	6,14	14,33	250	3500			M22x1,5	M22x1,5		M16x1,5	M18x1,5	
20A(C)6,3X511...	6,3	8,69	20,29	250	3500								
20A(C)8,2X511...	8,2	11,32	26,40	250	3500								
20A(C)10X511...	10	13,95	32,55	250	3500	44,5	89						
20A(C)11X511...	11,3	15,76	36,78	250	3500								
20A(C)12X511...	12	16,92	39,48	250	3500								
20A(C)14X511...	14	19,95	46,55	250	3500								
20A(C)15X511...	15	21,60	36,00	250	2500								
20A(C)16X511...	16	23,04	38,40	250	2500								
20A(C)19X511...	19	27,36	45,60	200	2500								
20A(C)22X511...	22	31,68	42,24	180	2000								
20A(C)25X511...	25	36,00	48,00	160	2000								



Type	Displacement	Flow		Pressure	max Speed	Dimension							
		at 1500 rpm	at max rpm			P _{nom}	n	A	B	Inlet			Outlet
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	M	G	U	M	G	U
20A(C)4,5X514...	4,5	6,14	14,33	250	3500	42	86,8	M20x1,5	G1/2	1 1/16" -12UNF	M16x1,5		7/8" -14UNF
20A(C)6,3X514...	6,3	8,69	20,29	250	3500	43,6	86,8						
20A(C)8,2X514...	8,2	11,32	26,40	250	3500	45	86,8						
20A(C)10X514...	10	13,95	32,55	250	3500	46,6	95,8						
20A(C)11X514...	11,3	15,76	36,78	250	3500	47,6	97,9						
20A(C)12X514...	12	16,92	39,48	250	3500	48,2	99,1						
20A(C)14X514...	14	19,95	46,55	250	3500	49,6	102,1		G3/4				
20A(C)15X514...	15	21,60	36,00	250	2500	50,6	103,7						
20A(C)16X514...	16	23,04	38,40	250	2500	51,6	105,3						
20A(C)19X514...	19	27,36	45,60	200	2500	53,6	110,3						
20A(C)22X514...	22	31,68	42,24	180	2000	56,6	115,3						
20A(C)25X514...	25	36,00	48,00	160	2000	58,8	120,2						

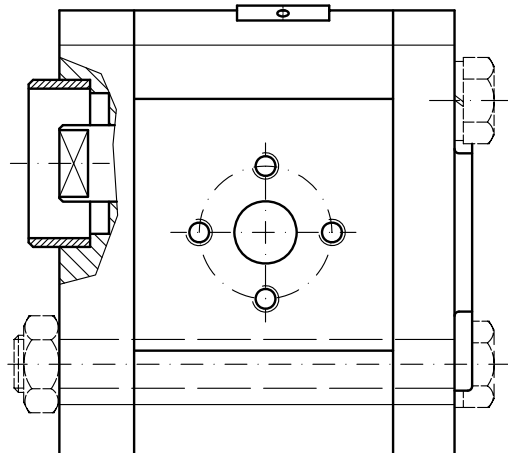
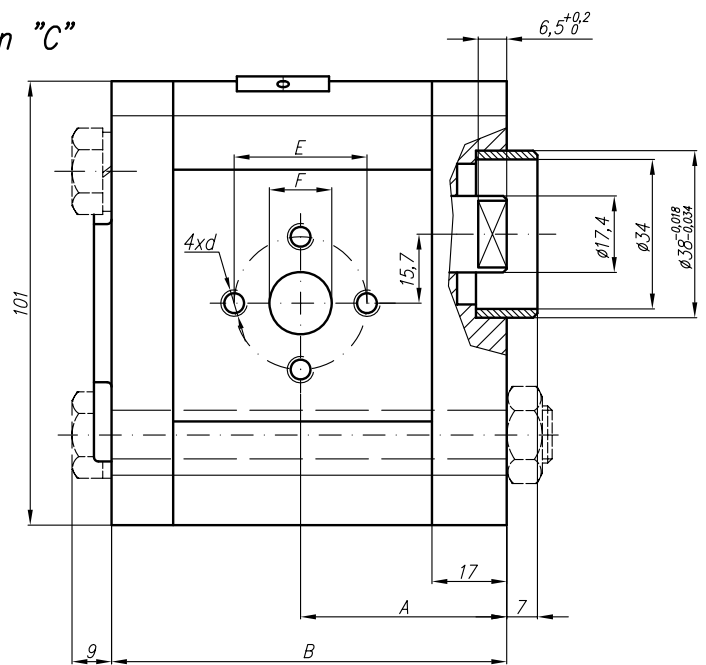


Type	Displacement	Flow		Pressure	max Speed	Dimension							
		at 1500 rpm	at max rpm			A	B	Inlet			Outlet		
	cm ³ /rev	l/min	l/min	P _{nom} bar	n rpm	mm	mm	E	F	d	E	F	d
20A(C)4,5X525	4,5	6,14	14,33	250	3500								
20A(C)6,3X525	6,3	8,69	20,29	250	3500								
20A(C)8,2X525	8,2	11,32	26,40	250	3500								
20A(C)10X525	10	13,95	32,55	250	3500								
20A(C)11X525	11,3	15,76	36,78	250	3500	44,5	87,6						
20A(C)12X525	12	16,92	39,48	250	3500								
20A(C)14X525	14	19,95	46,55	250	3500								
20A(C)15X525	15	21,60	36,00	250	2500								
20A(C)16X525	16	23,04	38,40	250	2500								
20A(C)19X525	19	27,36	45,60	200	2500								
20A(C)22X525	22	31,68	42,24	180	2000								
20A(C)25X525	25	36,00	48,00	160	2000								

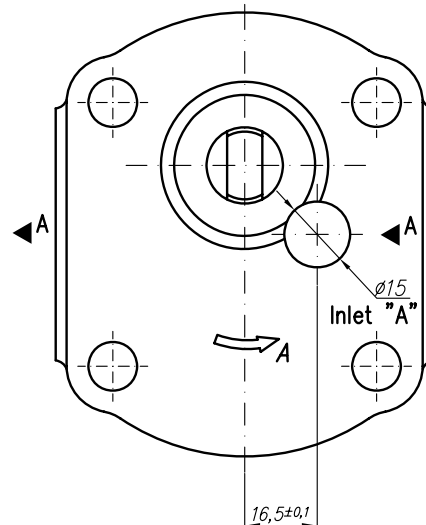
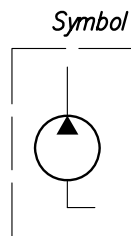


Type	Displacement	Flow		Pressure	max Speed	Dimension							
		at 1500 rpm	at max rpm			P _{nom}	n	A	B	Inlet			Outlet
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	E	F	d	E	F	d
20A(C)4,5X529	4,5	6,14	14,33	250	3500	42	79,6	40	15	M6-6H	35	15	M6-6H
20A(C)6,3X529	6,3	8,69	20,29	250	3500	43,6	82,6		20				
20A(C)8,2X529	8,2	11,32	26,40	250	3500	45	85,6						
20A(C)10X529	10	13,95	32,55	250	3500	46,6	88,7						
20A(C)11X529	11,3	15,76	36,78	250	3500	47,6	90,7						
20A(C)12X529	12	16,92	39,48	250	3500	48,2	91,9						
20A(C)14X529	14	19,95	46,55	250	3500	49,6	95						
20A(C)15X529	15	21,60	36,00	250	2500	50,6	96,5						
20A(C)16X529	16	23,04	38,40	250	2500	51,6	98,2						
20A(C)19X529	19	27,36	45,60	200	2500	53,6	103,1						
20A(C)22X529	22	31,68	42,24	180	2000	56,6	108,1						
20A(C)25X529	25	36,00	48,00	160	2000	58,8	113						

Rotation "C"



Rotation "A"



Type	Displacement	Flow		Pressure P _{nom}	max Speed n	Dimension							
		at 1500 rpm	at max rpm			A	B	Inlet			Outlet		
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	E	F	d	E	F	d
20A(C)4,5X536	4,5	6,14	14,33	250	3500						30,2		1/4"-20UNC
20A(C)6,3X536	6,3	8,69	20,29	250	3500								
20A(C)8,2X536	8,2	11,32	26,40	250	3500								
20A(C)10X536	10	13,95	32,55	250	3500								
20A(C)11X536	11,3	15,76	36,78	250	3500	46,9	89						
20A(C)12X536	12	16,92	39,48	250	3500								
20A(C)14X536	14	19,95	46,55	250	3500								
20A(C)15X536	15	21,60	36,00	250	2500								
20A(C)16X536	16	23,04	38,40	250	2500								
20A(C)19X536	19	27,36	45,60	200	2500								
20A(C)22X536	22	31,68	42,24	180	2000								
20A(C)25X536	25	36,00	48,00	160	2000								

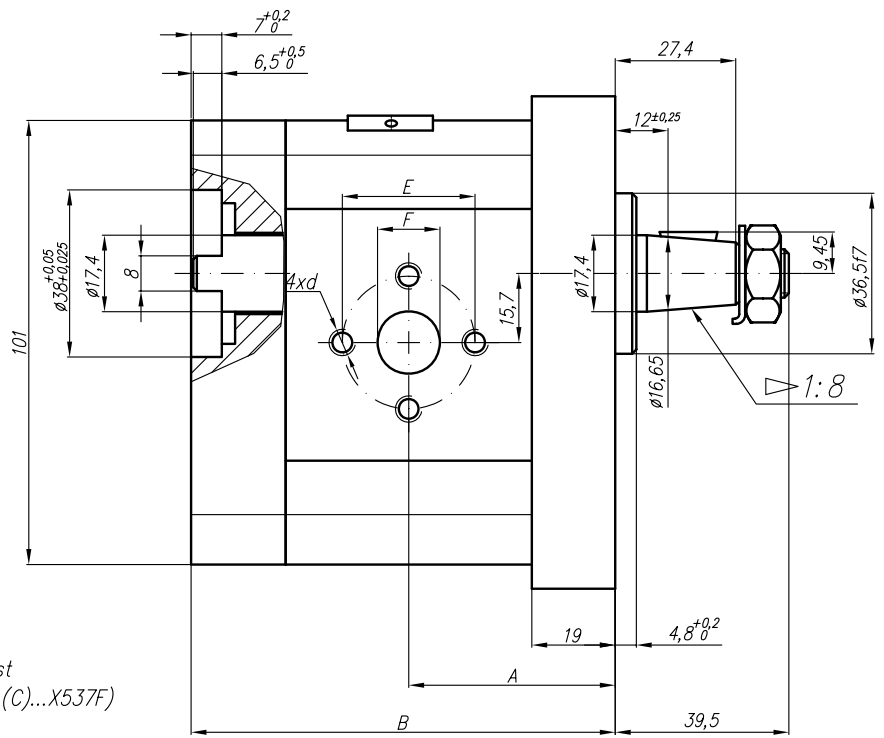
Technical drawing of a bearing housing (20A(C)...X537F) showing dimensions and features.

Dimensions:

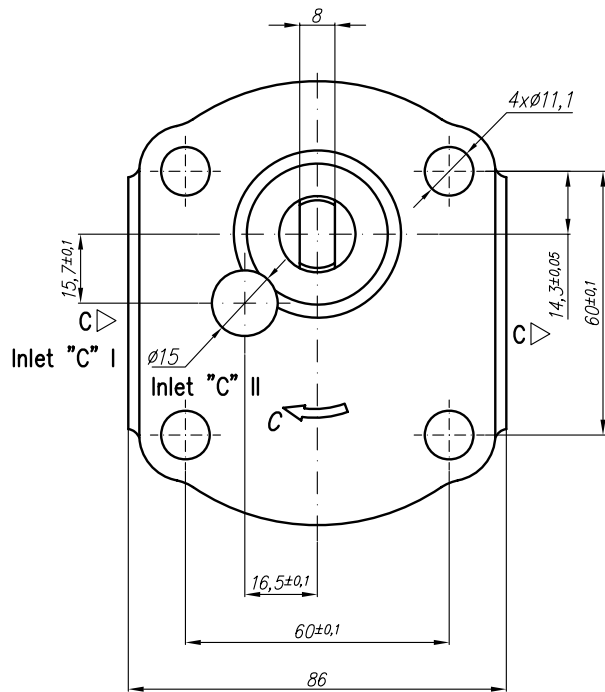
- Overall width: 87,5
- Overall height: 112
- Distance between mounting hole centers: 71,4 $\pm$ 0,1
- Distance from center to mounting hole center: 19
- Distance from outer edge to mounting hole center: 3,2
- Mounting hole diameter: 4xØ7,1
- Bore diameter: 32,5 $\pm$ 0,05
- Side view bore diameter: Ø38 $\begin{smallmatrix} +0,05 \\ -0,025 \end{smallmatrix}$
- Side view total width: 101
- Keyway width: Ø17,4

Features:

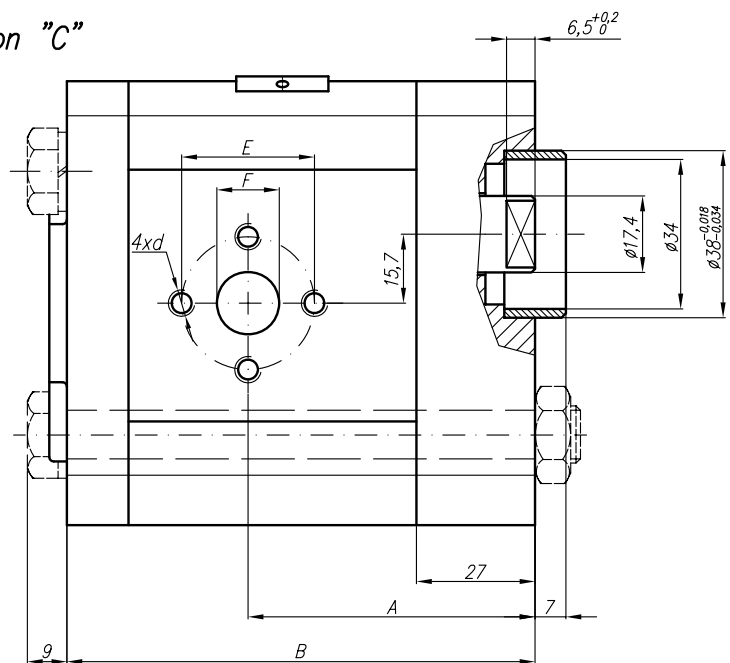
- Section lines A-A and C-C.
- Keyway in the bore.
- Mounting holes (4xØ7,1).
- Note: (4xØ9 on request)
- Designation: 20A(C)...X537F



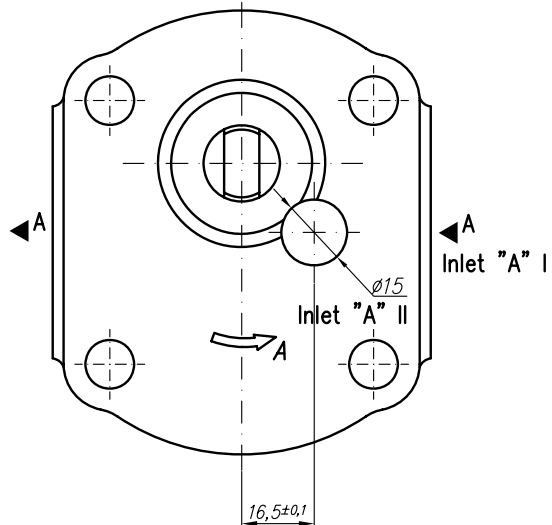
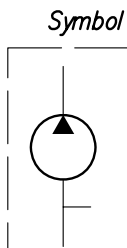
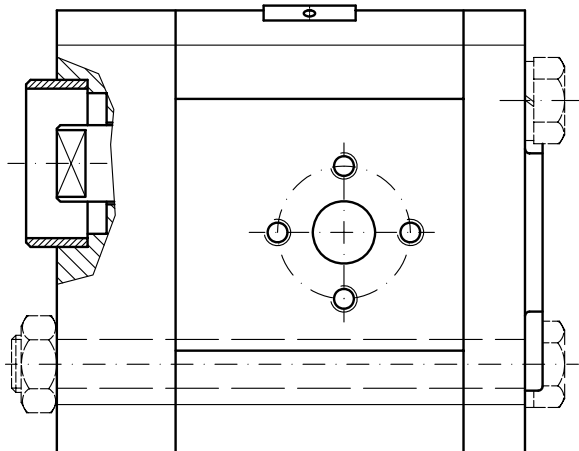
Type	Displacement	Flow		Pressure P _{nom}	max Speed n	Dimension							
		at 1500 rpm	at max rpm			A	B	Inlet			Outlet		
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	E	F	d	E	F	d
20A(C)4,5X537	4,5	6,14	14,33	200	3500						30		1/4"-20UNC
20A(C)6,3X537	6,3	8,69	20,29	200	3500								
20A(C)8,2X537	8,2	11,32	26,40	200	3500								
20A(C)10X537	10	13,95	32,55	200	3500			40	19	5/16"-18UNC			
20A(C)11X537	11,3	15,76	36,78	200	3500								
20A(C)12X537	12	16,92	39,48	200	3500								
20A(C)14X537	14	19,95	46,55	200	3500								
20A(C)15X537	15	21,60	36,00	200	2500	48,2	104,1						
20A(C)16X537	16	23,04	38,40	200	2500								
20A(C)19X537	19	27,36	45,60	200	2500								
20A(C)22X537	22	31,68	42,24	180	2000								
20A(C)25X537	25	36,00	48,00	160	2000								



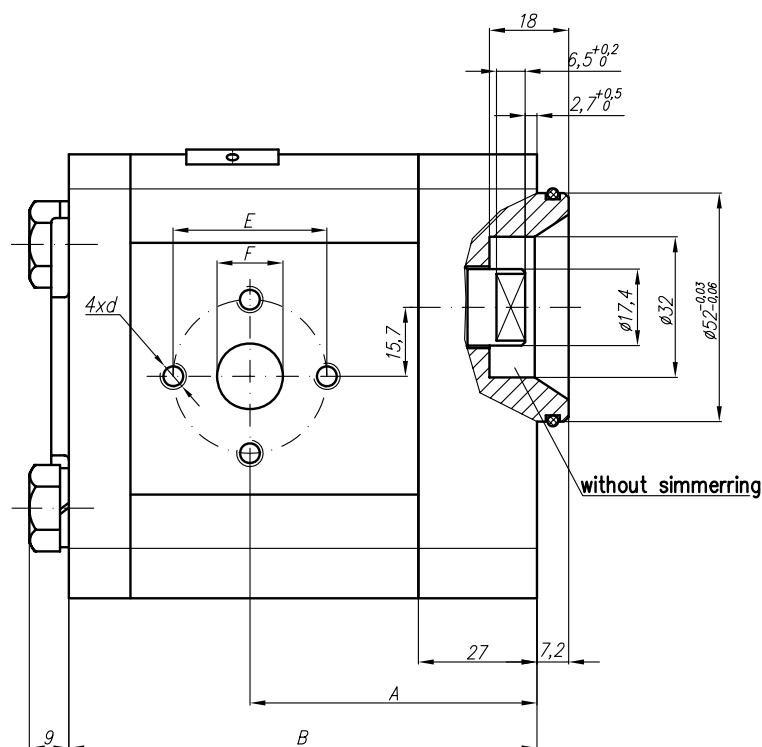
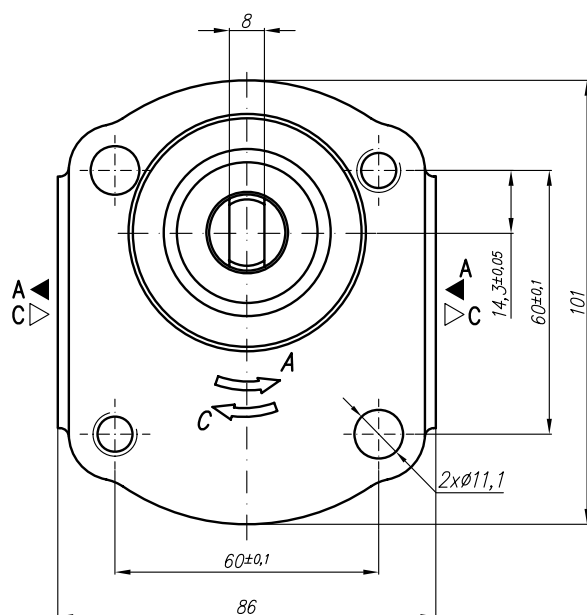
Rotation "C"



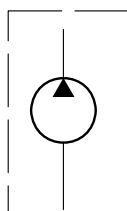
Rotation "A"



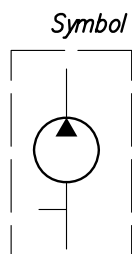
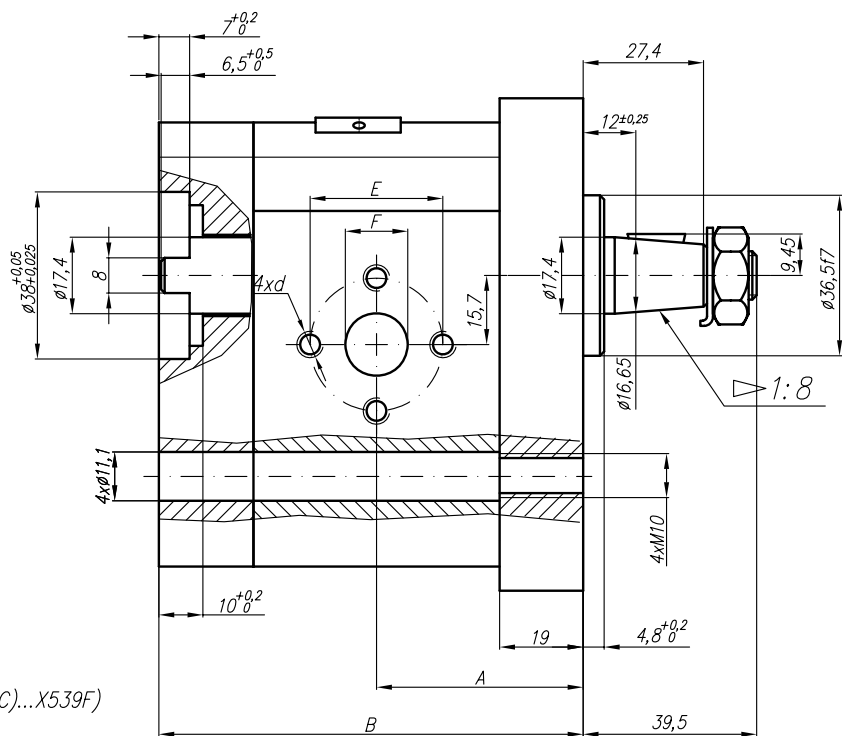
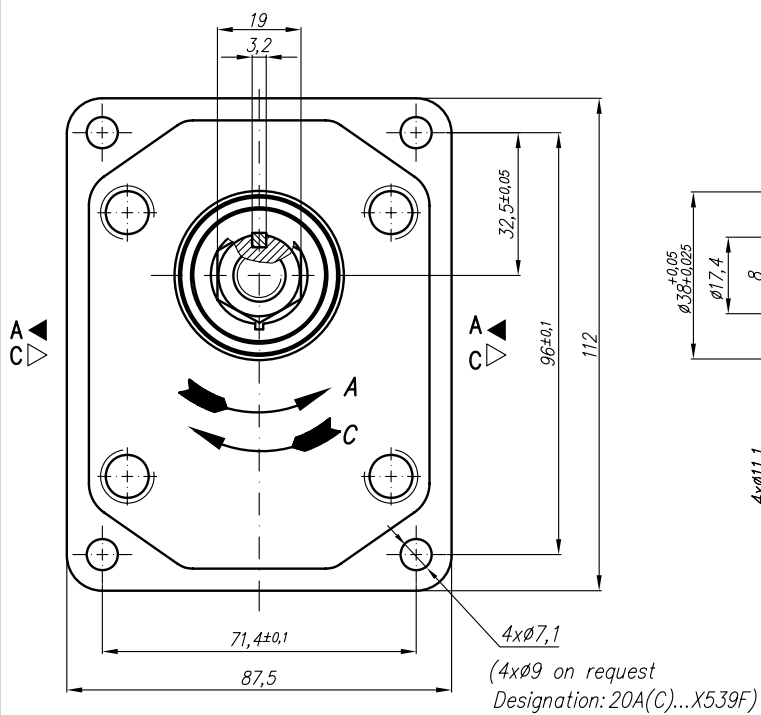
Type	Displacement	Flow		Pressure	max Speed	Dimension							
		at 1500 rpm	at max rpm			P _{nom}	n	A	B	Inlet			Outlet
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	E	F	d	E	F	d
20A(C)4,5X538	4,5	6,14	14,33	200	3500			39,7	19	5/16"-18UNC	30,2		1/4"-20UNC
20A(C)6,3X538	6,3	8,69	20,29	200	3500								
20A(C)8,2X538	8,2	11,32	26,40	200	3500								
20A(C)10X538	10	13,95	32,55	200	3500								
20A(C)11X538	11,3	15,76	36,78	200	3500								
20A(C)12X538	12	16,92	39,48	200	3500						14,2		
20A(C)14X538	14	19,95	46,55	200	3500								
20A(C)15X538	15	21,60	36,00	200	2500								
20A(C)16X538	16	23,04	38,40	200	2500	65,3	106,5						
20A(C)19X538	19	27,36	45,60	200	2500								
20A(C)22X538	22	31,68	42,24	180	2000								
20A(C)25X538	25	36,00	48,00	160	2000								



Symbol

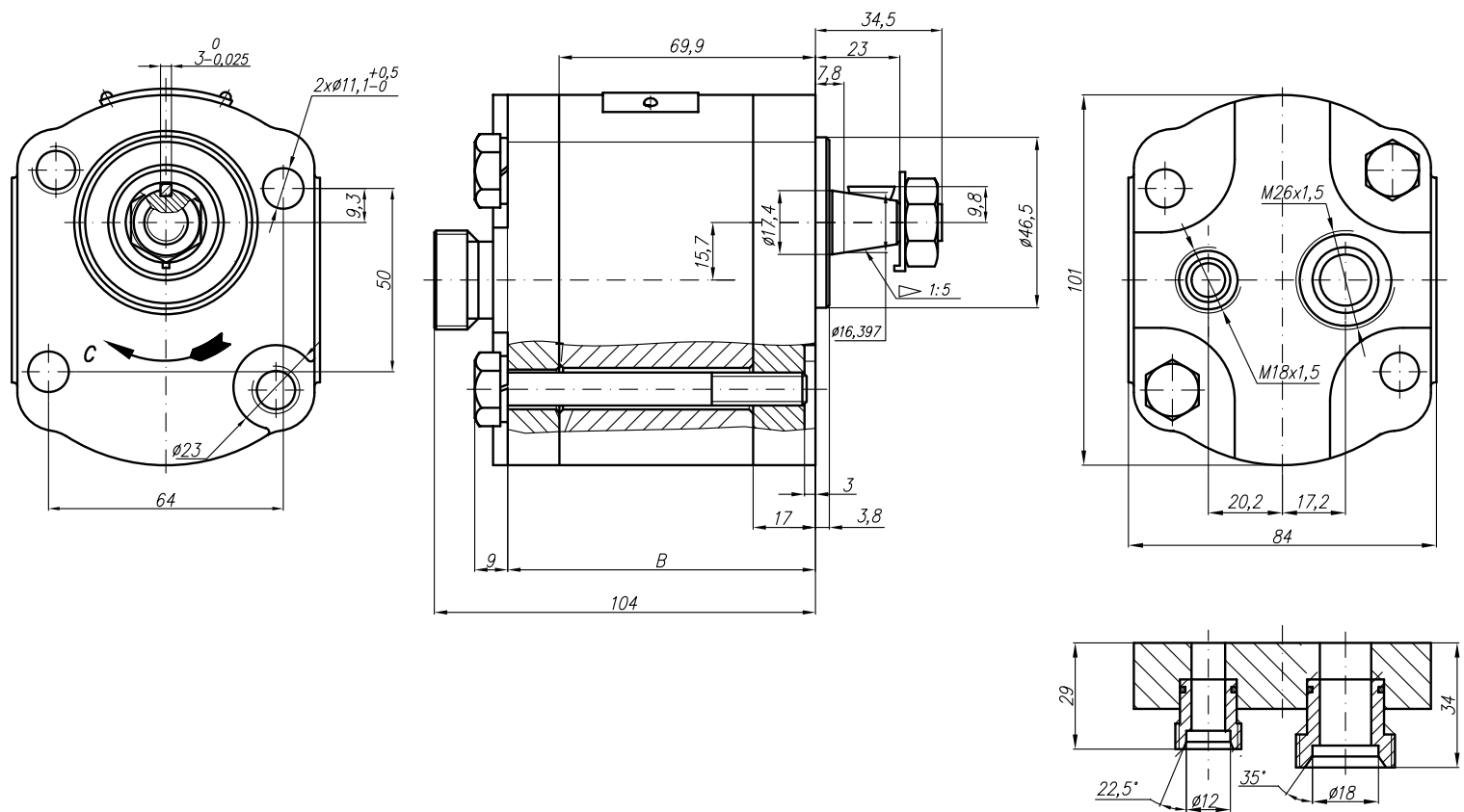


Type	Displacement	Flow		Pressure	max Speed	Dimension							
		at 1500 rpm	at max rpm			P _{nom}	n	A	B	Inlet			Outlet
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	E	F	d	E	F	d
20A(C)4,5X538S	4,5	6,14	14,33	200	3500						30,2		1/4"-20UNC
20A(C)6,3X538S	6,3	8,69	20,29	200	3500								
20A(C)8,2X538S	8,2	11,32	26,40	200	3500								
20A(C)10X538S	10	13,95	32,55	200	3500			39,7	19	5/16"-18UNC			
20A(C)11X538S	11,3	15,76	36,78	200	3500								
20A(C)12X538S	12	16,92	39,48	200	3500								
20A(C)14X538S	14	19,95	46,55	200	3500								
20A(C)15X538S	15	21,60	36,00	200	2500								
20A(C)16X538S	16	23,04	38,40	200	2500	65,3	106,5						
20A(C)19X538S	19	27,36	45,60	200	2500								
20A(C)22X538S	22	31,68	42,24	180	2000								
20A(C)25X538S	25	36,00	48,00	160	2000								

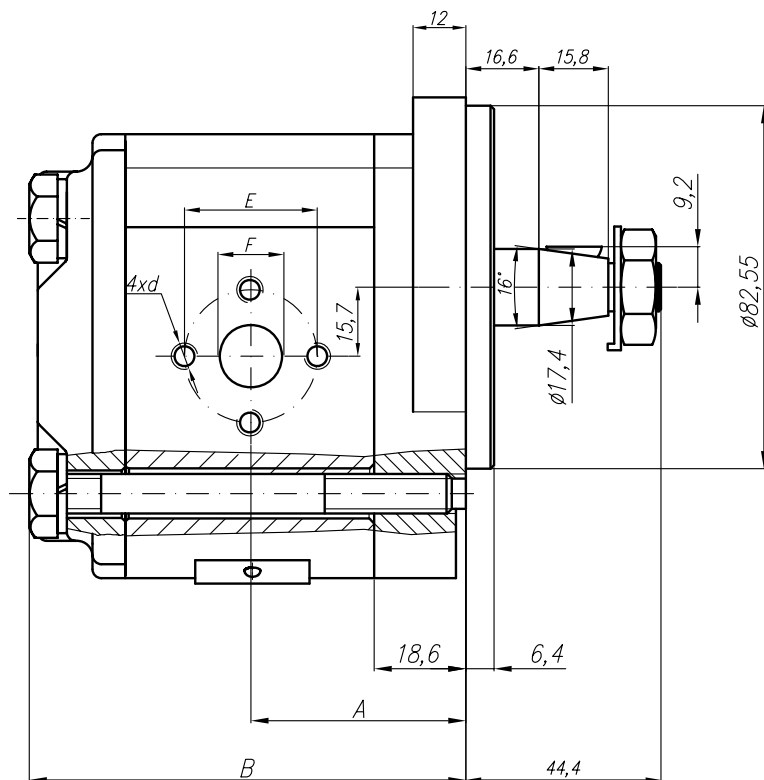
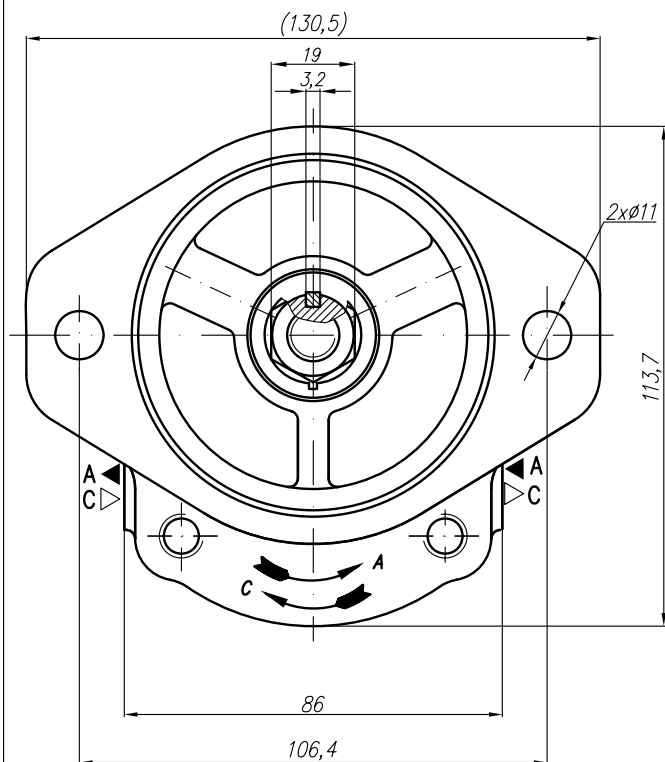


Type	Displacement	Flow		Pressure	max Speed	Dimension							
		at 1500 rpm	at max rpm			P _{nom}	n	A	B	Inlet			Outlet
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	E	F	d	E	F	d
20A(C)4,5X539	4,5	6,14	14,33	200	3500			40	19	5/16"-18UNC	30	14	1/4"-20UNC
20A(C)6,3X539	6,3	8,69	20,29	200	3500								
20A(C)8,2X539	8,2	11,32	26,40	200	3500								
20A(C)10X539	10	13,95	32,55	200	3500								
20A(C)11X539	11,3	15,76	36,78	200	3500								
20A(C)12X539	12	16,92	39,48	200	3500								
20A(C)14X539	14	19,95	46,55	200	3500								
20A(C)15X539	15	21,60	36,00	200	2500								
20A(C)16X539	16	23,04	38,40	200	2500								
20A(C)19X539	19	27,36	45,60	200	2500	48,2	110,7						
20A(C)22X539	22	31,68	42,24	180	2000								
20A(C)25X539	25	36,00	48,00	160	2000								

Type	Displacement	Flow		Pressure	max Speed	Dimension							
		at 1500 rpm	at max rpm			P _{nom}	n	A	B	Inlet			Outlet
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	E	F	d	E	F	d
20A(C)4,5X539	4,5	6,14	14,33	200	3500			40	19	5/16"-18UNC	30	14	1/4"-20UNC
20A(C)6,3X539	6,3	8,69	20,29	200	3500								
20A(C)8,2X539	8,2	11,32	26,40	200	3500								
20A(C)10X539	10	13,95	32,55	200	3500								
20A(C)11X539	11,3	15,76	36,78	200	3500								
20A(C)12X539	12	16,92	39,48	200	3500								
20A(C)14X539	14	19,95	46,55	200	3500								
20A(C)15X539	15	21,60	36,00	200	2500								
20A(C)16X539	16	23,04	38,40	200	2500								
20A(C)19X539	19	27,36	45,60	200	2500	48,2	110,7						
20A(C)22X539	22	31,68	42,24	180	2000								
20A(C)25X539	25	36,00	48,00	160	2000								

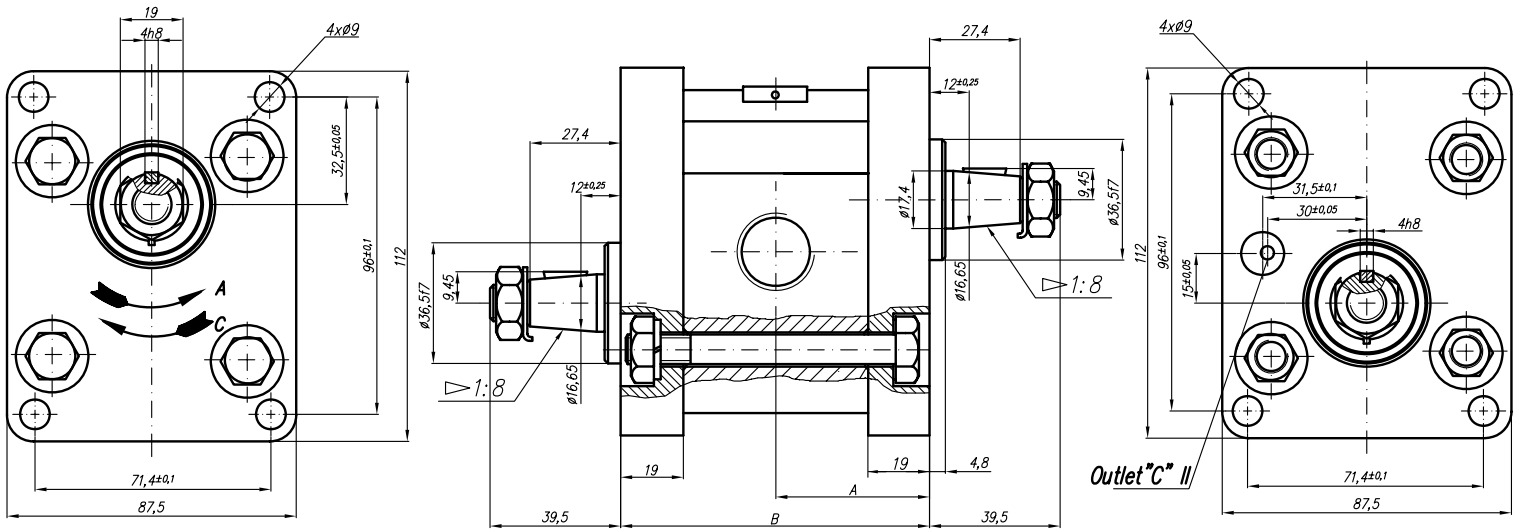


Type	Displacement	Flow		Pressure	max Speed	Dimension							
		at 1500 rpm	at max rpm			A	B	Inlet			Outlet		
	cm ³ /rev	l/min	l/min	P _{nom} bar	n rpm	mm	mm	M	G	U	M	G	U
20C4,5X540WMS	4,5	6,14	14,33	250	3500			M26x1,5			M18x1,5		
20C6,3X540WMS	6,3	8,69	20,29	250	3500								
20C8,2X540WMS	8,2	11,32	26,40	250	3500		83,9						
20C10X540WMS	10	13,95	32,55	250	3500								
20C11X540WMS	11,3	15,76	36,78	250	3500								
20C12X540WMS	12	16,92	39,48	250	3500								
20C14X540WMS	14	19,95	46,55	250	3500								
20C15X540WMS	15	21,60	36,00	250	2500								
20C16X540WMS	16	23,04	38,40	250	2500								
20C19X540WMS	19	27,36	45,60	200	2500								
20C22X540WMS	22	31,68	42,24	180	2000								
20C25X540WMS	25	36,00	48,00	160	2000								

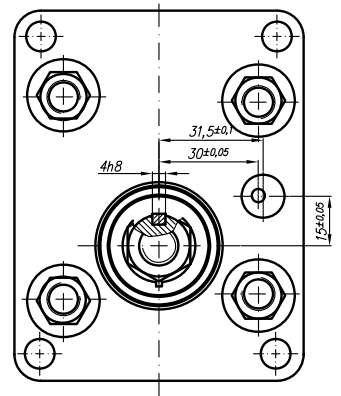
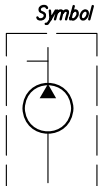


Type	Displacement	Flow		Pressure	max Speed	Dimension							
		at 1500 rpm	at max rpm			P _{nom}	n	A	B	Inlet			Outlet
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	E	F	d	E	F	d
20A(C)4,5X541	4,5	6,14	14,33	250	3500			30,2	13,1	M6-6H		13,1	
20A(C)6,3X541	6,3	8,69	20,29	250	3500								
20A(C)8,2X541	8,2	11,32	26,40	250	3500								
20A(C)10X541	10	13,95	32,55	250	3500								
20A(C)11X541	11,3	15,76	36,78	250	3500	48	106	39,7	19	M8-6H	30,2	14,2	M6-6H
20A(C)12X541	12	16,92	39,48	250	3500								
20A(C)14X541	14	19,95	46,55	250	3500								
20A(C)15X541	15	21,60	36,00	250	2500								
20A(C)16X541	16	23,04	38,40	250	2500								
20A(C)19X541	19	27,36	45,60	200	2500								
20A(C)22X541	22	31,68	42,24	180	2000								
20A(C)25X541	25	36,00	48,00	160	2000						39,7	19	M8

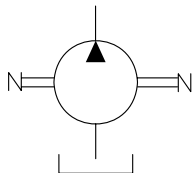
Rotation "C"



Rotation "A"



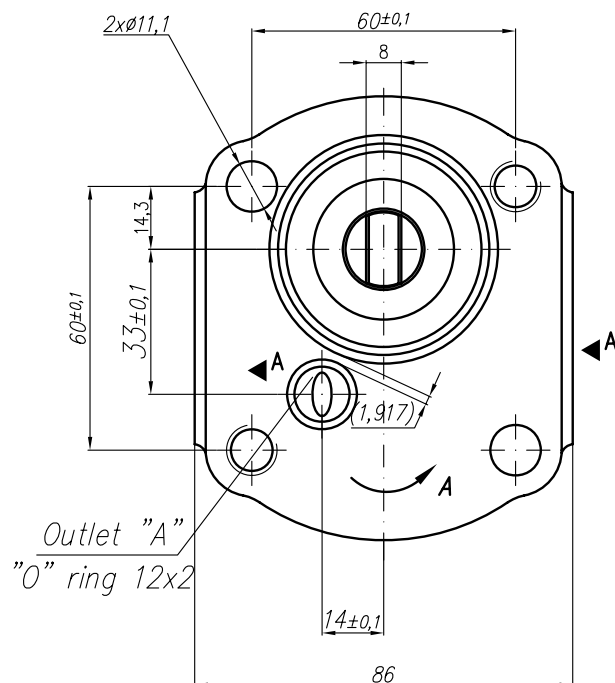
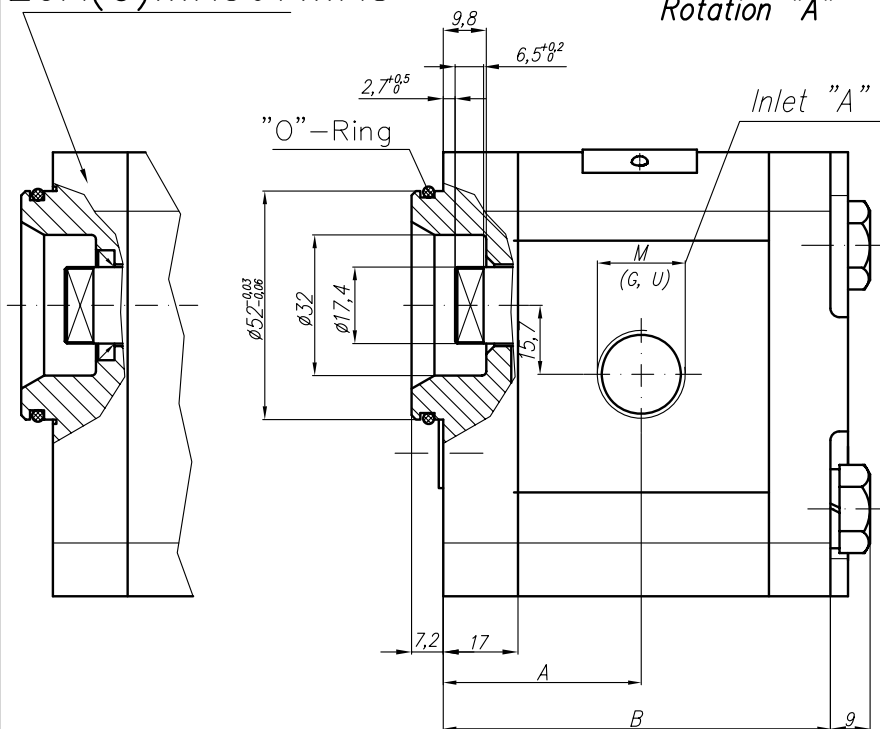
Type	Displacement	Flow		Pressure	max Speed	Dimension							
		at 1500 rpm	at max rpm			P _{nom}	n	A	B	Inlet			Outlet
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	M	G	U	M	G	U
20A(C)4,5X560...	4,5	6,14	14,33	250	3500			3/4"				3/4"	
20A(C)6,3X560...	6,3	8,69	20,29	250	3500								
20A(C)8,2X560...	8,2	11,32	26,40	250	3500								
20A(C)10X560...	10	13,95	32,55	250	3500								
20A(C)11X560...	11,3	15,76	36,78	250	3500	48	96						
20A(C)12X560...	12	16,92	39,48	250	3500								
20A(C)14X560...	14	19,95	46,55	250	3500	51,2	100,4						
20A(C)15X560...	15	21,60	36,00	250	2500								
20A(C)16X560...	16	23,04	38,40	250	2500								
20A(C)19X560...	19	27,36	45,60	200	2500								
20A(C)22X560...	22	31,68	42,24	180	2000								
20A(C)25X560...	25	36,00	48,00	160	2000								



Type	Displacement	Flow		Pressure P _{nom}	max Speed n	Dimension							
		at 1500 rpm	at max rpm			A	B	Inlet			Outlet		
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	M	G	U	M	G	U
20A(C)4,5Y566D...	4,5	6,14	14,33	250	3500	41,8	85	M20x1,5	G1/2	1 1/16"-12UNF	M16x1,5	G1/2	7/8"-14UNF
20A(C)6,3Y566D...	6,3	8,69	20,29	250	3500	43	88						
20A(C)8,2Y566D...	8,2	11,32	26,40	250	3500	45,1	90,9						
20A(C)10Y566D...	10	13,95	32,55	250	3500	49,5	94						
20A(C)11Y566D...	11,3	15,76	36,78	250	3500	49,5	96						
20A(C)12Y566D...	12	16,92	39,48	250	3500	49,5	97,3						
20A(C)14Y566D...	14	19,95	46,55	250	3500	49,5	100,4						
20A(C)15Y566D...	15	21,60	36,00	250	2500	49,5	102						
20A(C)16Y566D...	16	23,04	38,40	250	2500	49,5	103,5						
20A(C)19Y566D...	19	27,36	45,60	200	2500	49,5	108,5						
20A(C)22Y566D...	22	31,68	42,24	180	2000	57	113,5						
20A(C)25Y566D...	25	36,00	48,00	160	2000	59,2	118,4						

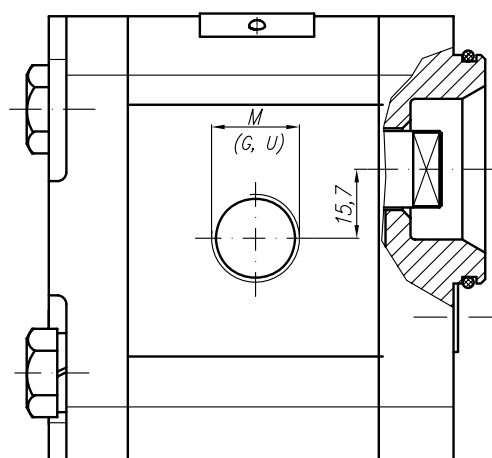
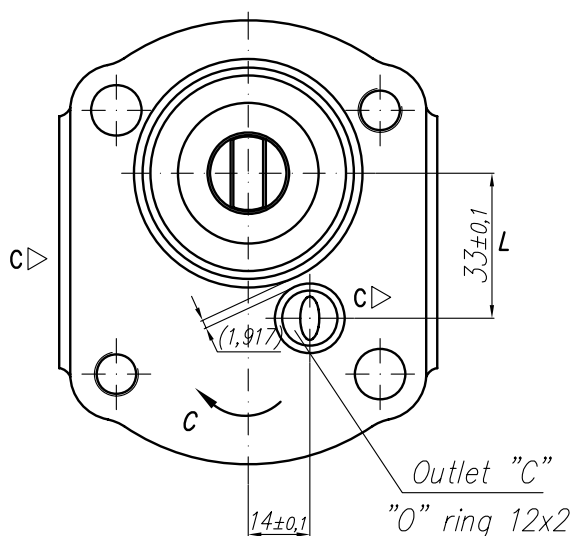
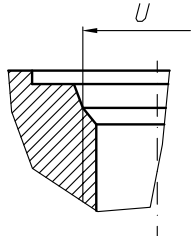
20A(C)...X567...AS

Rotation "A"



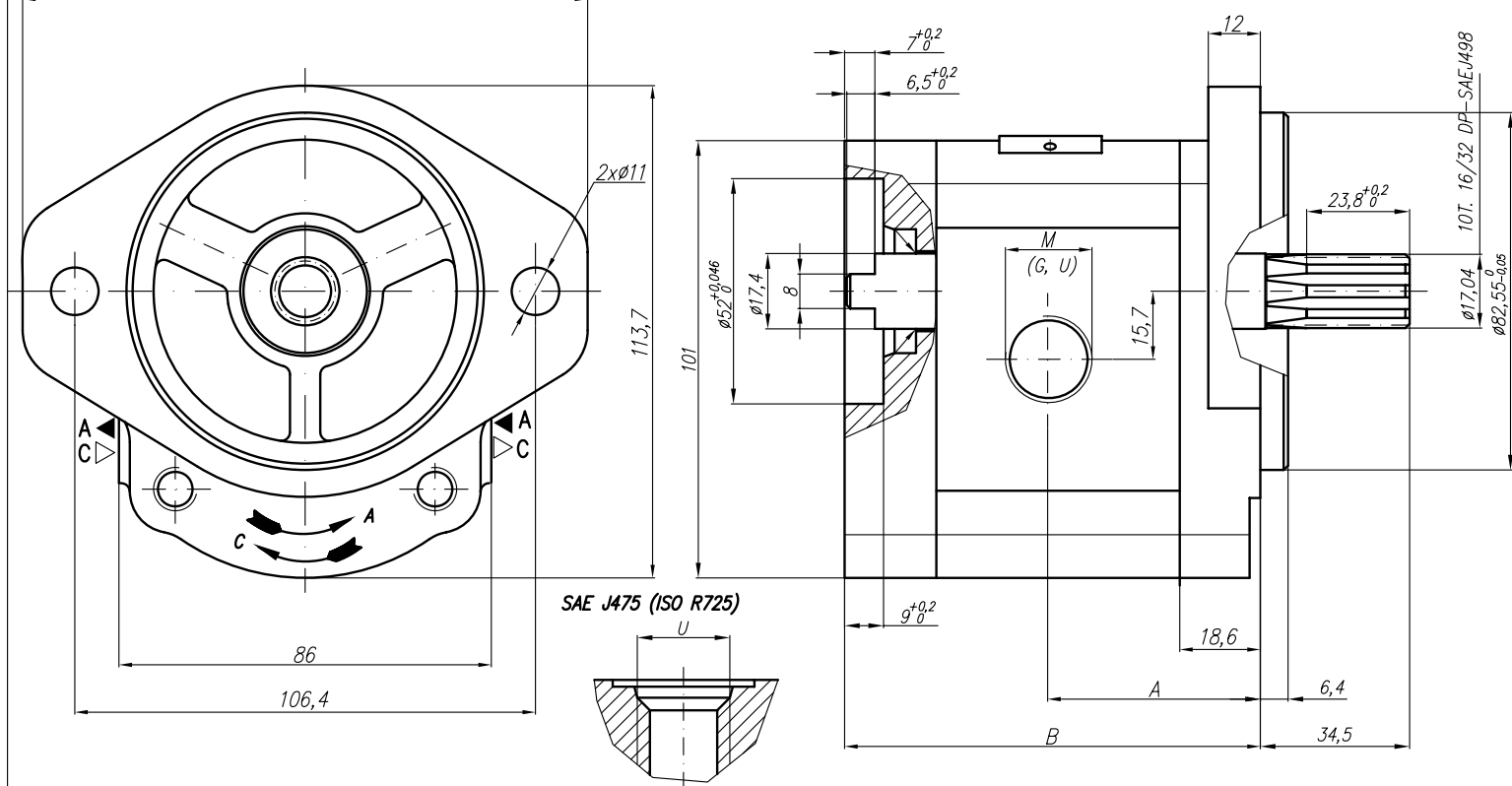
Rotation "C"

SAE J475 (ISO R725)

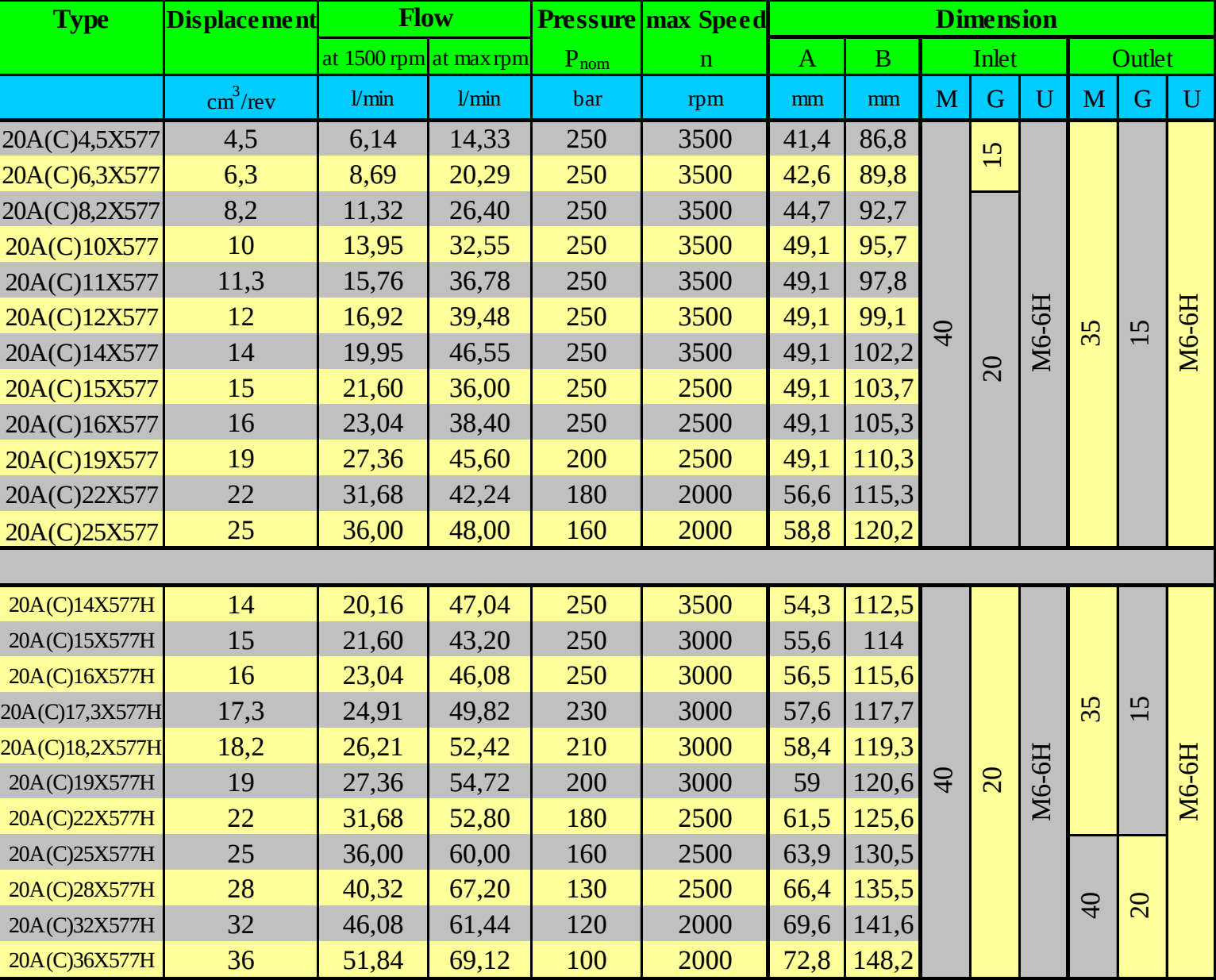


Type	Displacement	Flow		Pressure	max Speed	Dimension										
		at 1500 rpm	at max rpm			P _{nom}	n	A	B	Inlet				Outlet		
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	M	M1	G		U				
20A(C)4,5X567...	4,5	6,14	14,33	250	3500	40,5	78	M20x1,5	M18x1,5	G1/2"		1 1/16"-12 UNF				
20A(C)6,3X567...	6,3	8,69	20,29	250	3500	42	81									
20A(C)8,2X567...	8,2	11,32	26,40	250	3500	43,5	83,9									
20A(C)10X567...	10	13,95	32,55	250	3500	45	87									
20A(C)11X567...	11,3	15,76	36,78	250	3500	46	89,1									
20A(C)12X567...	12	16,92	39,48	250	3500	46,6	90,3									
20A(C)14X567...	14	19,95	46,55	250	3500	48	93,4		G3/4"							
20A(C)15X567...	15	21,60	36,00	250	2500	49	95									
20A(C)16X567...	16	23,04	38,40	250	2500	50	96,6									
20A(C)19X567...	19	27,36	45,60	200	2500	52	101,5									
20A(C)22X567...	22	31,68	42,24	180	2000	55	106,5									
20A(C)25X567...	25	36,00	48,00	160	2000	57,2	112,1									

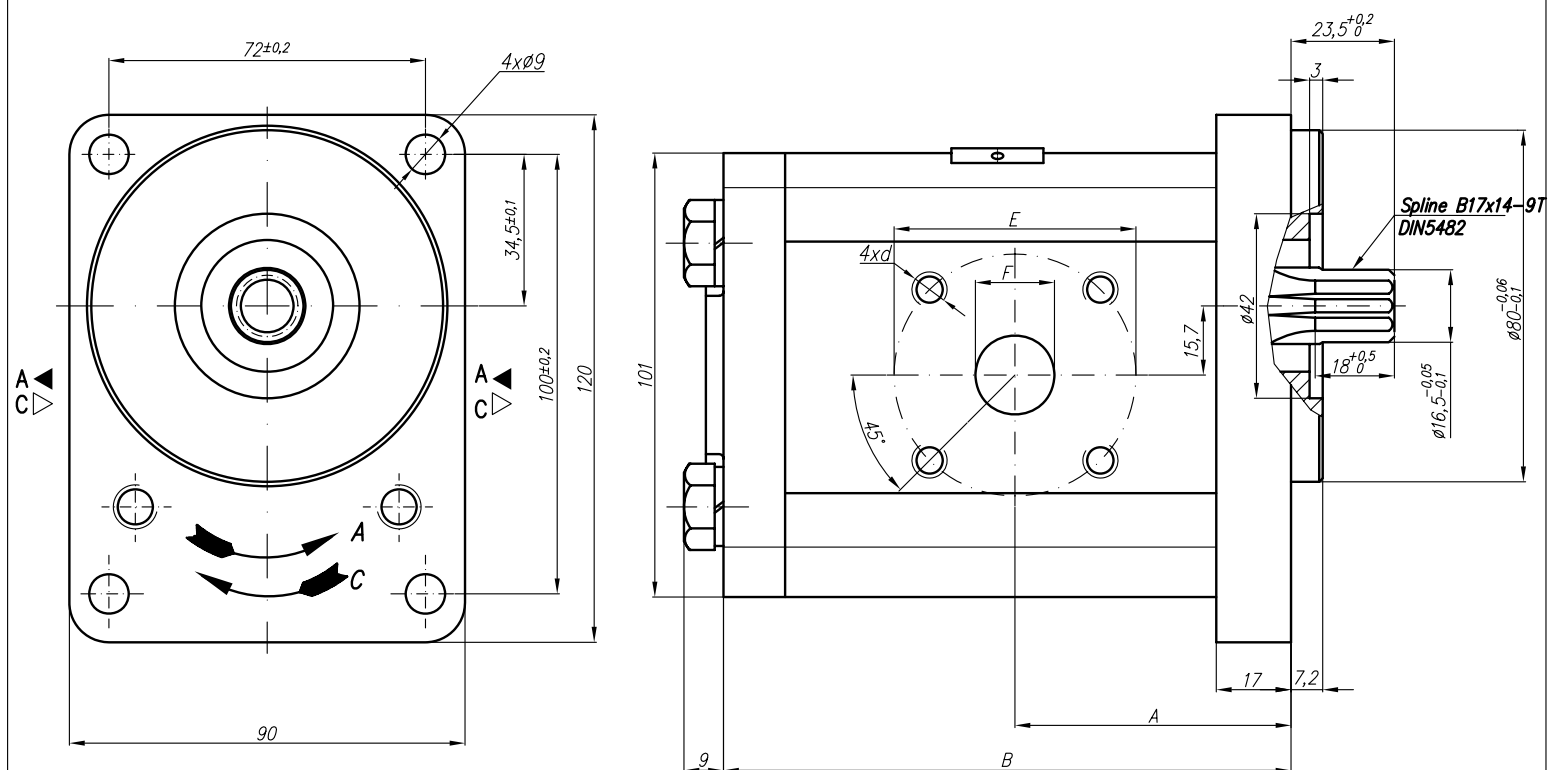
Type	Displacement	Flow		Pressure P _{nom}	max Speed n	Dimension							
		at 1500 rpm	at max rpm			A	B	Inlet			Outlet		
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	M	G	U	M	G	U
20A(C)4,5X573...	4,5	6,14	14,33	250	3500	39,8	87,7	M20x1,5	G1/2	1 1/16"-12UNF			
20A(C)6,3X573...	6,3	8,69	20,29	250	3500	41	90,7						
20A(C)8,2X573...	8,2	11,32	26,40	250	3500	43,1	93,6						
20A(C)10X573...	10	13,95	32,55	250	3500	47,5	95,6						
20A(C)11X573...	11,3	15,76	36,78	250	3500	47,5	98,7						
20A(C)12X573...	12	16,92	39,48	250	3500	47,5	100						
20A(C)14X573...	14	19,95	46,55	250	3500	47,5	103,1						
20A(C)15X573...	15	21,60	36,00	250	2500	47,5	104,6						
20A(C)16X573...	16	23,04	38,40	250	2500	47,5	106,2						
20A(C)19X573...	19	27,36	45,60	200	2500	47,5	112,2						
20A(C)22X573...	22	31,68	42,24	180	2000	55	116,2						
20A(C)25X573...	25	36,00	48,00	160	2000	57,2	121,1						



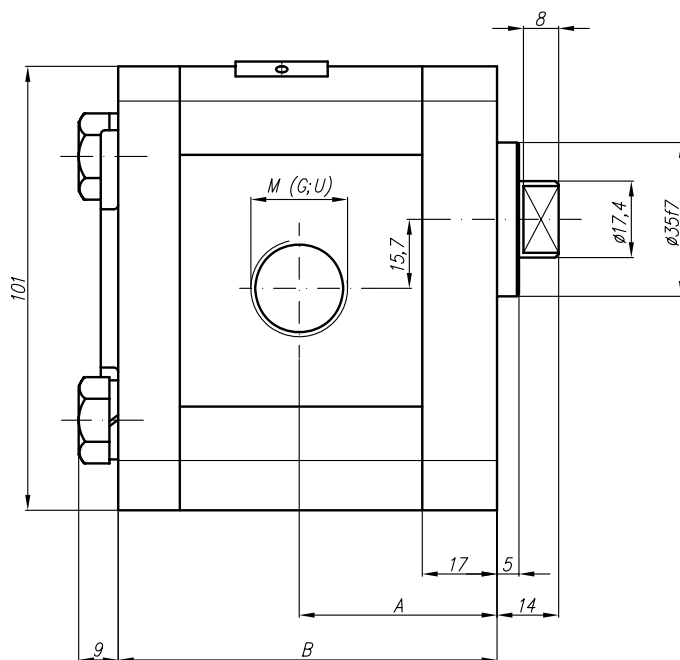
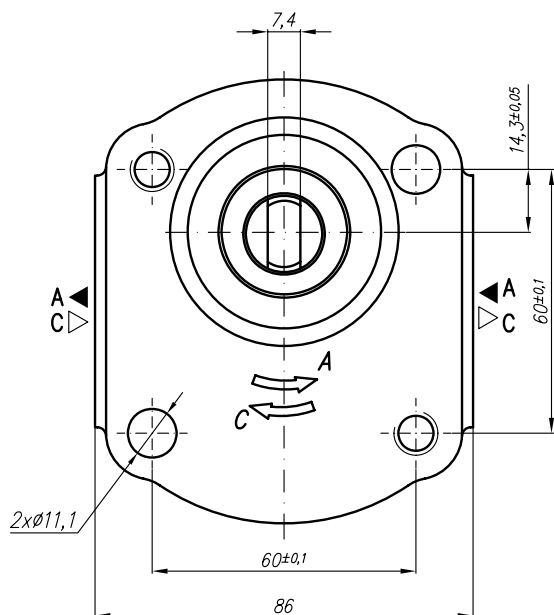
Type	Displacement	Flow		Pressure	max Speed	Dimension							
		at 1500 rpm	at max rpm			P _{nom}	n	A	B	Inlet			Outlet
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	M	G	U	M	G	U
20A(C)4,5X574...	4,5	6,14	14,33	250	3500	41,4	86,8	M20x1,5	G1/2	1 1/16"-12UNF	M16x1,5	G1/2	7/8"-14UNF
20A(C)6,3X574...	6,3	8,69	20,29	250	3500	42,6	89,8						
20A(C)8,2X574...	8,2	11,32	26,40	250	3500	44,7	92,7						
20A(C)10X574...	10	13,95	32,55	250	3500	49,1	95,7		G3/4				
20A(C)11X574...	11,3	15,76	36,78	250	3500	49,1	97,8						
20A(C)12X574...	12	16,92	39,48	250	3500	49,1	99,1						
20A(C)14X574...	14	19,95	46,55	250	3500	49,1	102,2						
20A(C)15X574...	15	21,60	36,00	250	2500	49,1	103,7						
20A(C)16X574...	16	23,04	38,40	250	2500	49,1	105,3						
20A(C)19X574...	19	27,36	45,60	200	2500	49,1	110,3		M20X1,5				
20A(C)22X574...	22	31,68	42,24	180	2000	56,6	115,3						
20A(C)25X574...	25	36,00	48,00	160	2000	58,8	120,2						
20A(C)14X574H...	14	20,16	47,04	250	3500	54,3	112,5	M20x1,5	G3/4	1 1/16"-12UNF	M16x1,5	G1/2	7/8"-14UNF
20A(C)15X574H...	15	21,60	43,20	250	3000	55,6	114						
20A(C)16X574H...	16	23,04	46,08	250	3000	56,5	115,6						
20A(C)17,3X574H...	17,3	24,91	49,82	230	3000	57,6	117,7						
20A(C)18,2X574H...	18,2	26,21	52,42	210	3000	58,4	119,3						
20A(C)19X574H...	19	27,36	54,72	200	3000	59	120,6						
20A(C)22X574H...	22	31,68	52,80	180	2500	61,5	125,6						
20A(C)25X574H...	25	36,00	60,00	160	2500	63,9	130,5						
20A(C)28X574H...	28	40,32	67,20	130	2500	66,4	135,5						
20A(C)32X574H...	32	46,08	61,44	120	2000	69,6	141,6						
20A(C)36X574H...	36	51,84	69,12	100	2000	72,8	148,2						



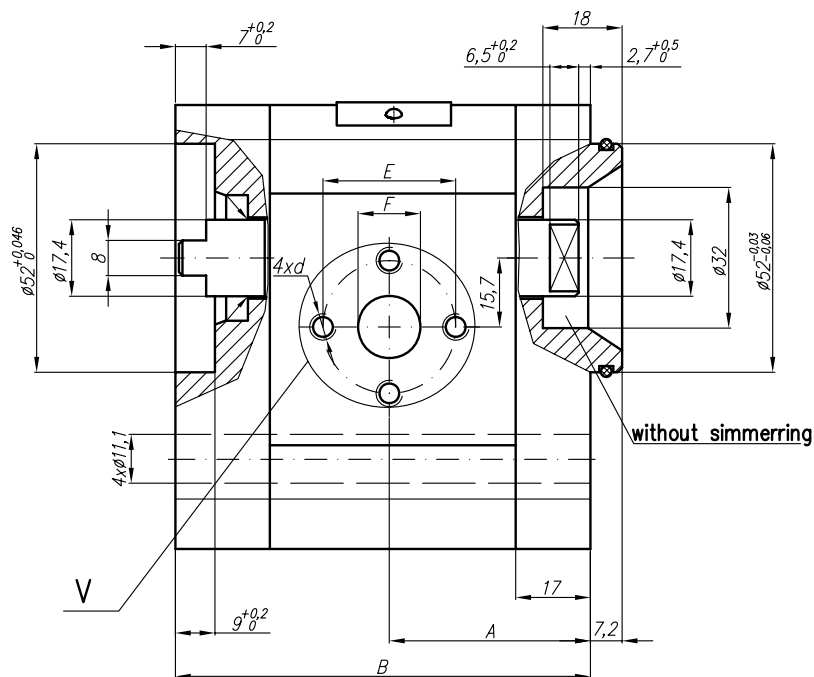
Type	Displacement	Flow		Pressure P _{nom}	max Speed n	Dimension							
		at 1500 rpm	at max rpm			A	B	Inlet			Outlet		
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	E	F	d	E	F	d
20A(C)4,5X578	4,5	6,14	14,33	250	3500	39,8	87,6	40	15	M6-6H	35	15	M6-6H
20A(C)6,3X578	6,3	8,69	20,29	250	3500	41	90,6		20				
20A(C)8,2X578	8,2	11,32	26,40	250	3500	43,1	93,5						
20A(C)10X578	10	13,95	32,55	250	3500	47,5	96,6						
20A(C)11X578	11,3	15,76	36,78	250	3500	47,5	98,7						
20A(C)12X578	12	16,92	39,48	250	3500	47,5	99,9						
20A(C)14X578	14	19,95	46,55	250	3500	47,5	103						
20A(C)15X578	15	21,60	36,00	250	2500	47,5	104,5						
20A(C)16X578	16	23,04	38,40	250	2500	47,5	106,2						
20A(C)19X578	19	27,36	45,60	200	2500	47,5	111,1						
20A(C)22X578	22	31,68	42,24	180	2000	55	116,1						
20A(C)25X578	25	36,00	48,00	160	2000	57,2	121,1						



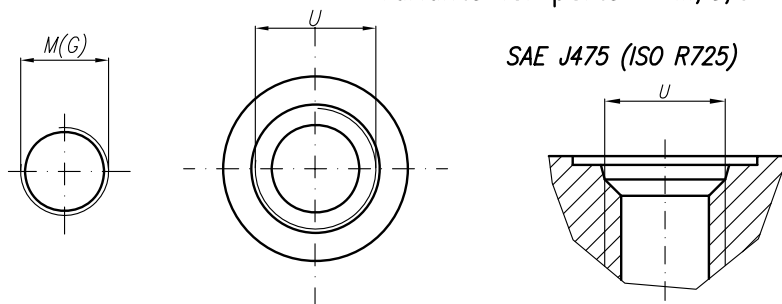
Type	Displacement	Flow		Pressure	max Speed	Dimension							
		at 1500 rpm	at max rpm			A	B	Inlet			Outlet		
	cm ³ /rev	l/min	l/min	P _{nom} bar	n rpm	mm	mm	E	F	d	E	F	d
20A(C)14X581	14	20,16											
20A(C)15X581	15	21,60											
20A(C)16X581	16	23,04											
20A(C)17,3X581	17,3	24,91											
20A(C)18,2X581	18,2	26,21											
20A(C)19X581	19	27,36											
20A(C)22X581	22	31,68											
20A(C)25X581	25	36,00											
20A(C)28X581	28	40,32	67,20	50	2500			55	29	M8-6H	55	18	M8-6H
20A(C)32X581	32	46,08	61,44	50	2000								
20A(C)36X581	36	51,84	69,12	50	2000	62,8	129,1						



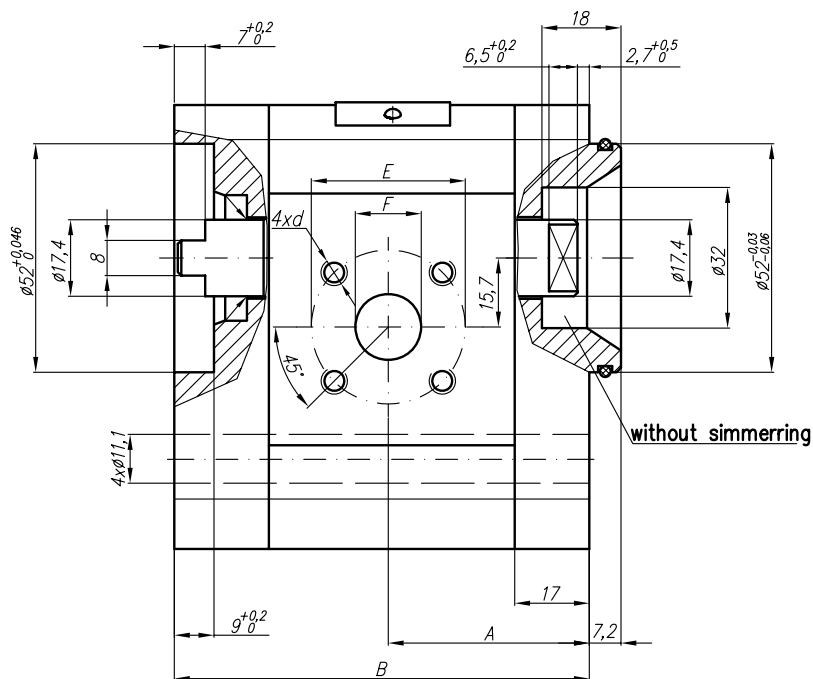
Type	Displacement	Flow		Pressure	max Speed	Dimension							
		at 1500 rpm	at max rpm			P _{nom}	n	A	B	Inlet			Outlet
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	M	G	U	M	G	U
20A(C)4,5X583...	4,5	6,14	14,33	250	3500	37,3	75,1	M18x1,5			M18x1,5		
20A(C)6,3X583...	6,3	8,69	20,29	250	3500	38,6	78						
20A(C)8,2X583...	8,2	11,32	26,40	250	3500	40,6	78						
20A(C)10X583...	10	13,95	32,55	250	3500	45	87						
20A(C)11X583...	11,3	15,76	36,78	250	3500	45	89,1						
20A(C)12X583...	12	16,92	39,48	250	3500	45	90,3						
20A(C)14X583...	14	19,95	46,55	250	3500								
20A(C)15X583...	15	21,60	36,00	250	2500								
20A(C)16X583...	16	23,04	38,40	250	2500								
20A(C)19X583...	19	27,36	45,60	200	2500								
20A(C)22X583...	22	31,68	42,24	180	2000								
20A(C)25X583...	25	36,00	48,00	160	2000								



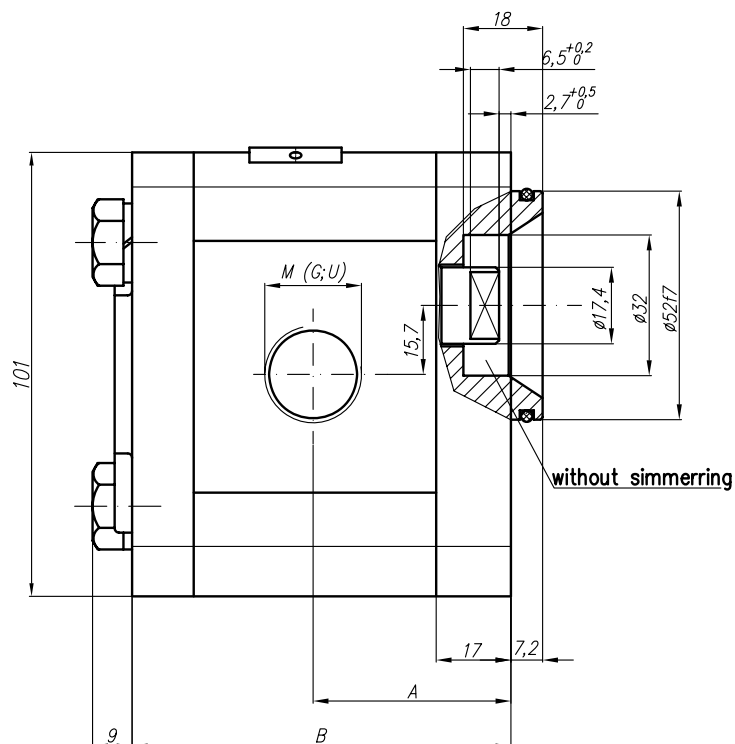
- ...X586 – Normal version (flanges);
- ...X586M – Metric threads;
- ...X586G – GAS threads;
- ...X586U – SAE UNF threads;



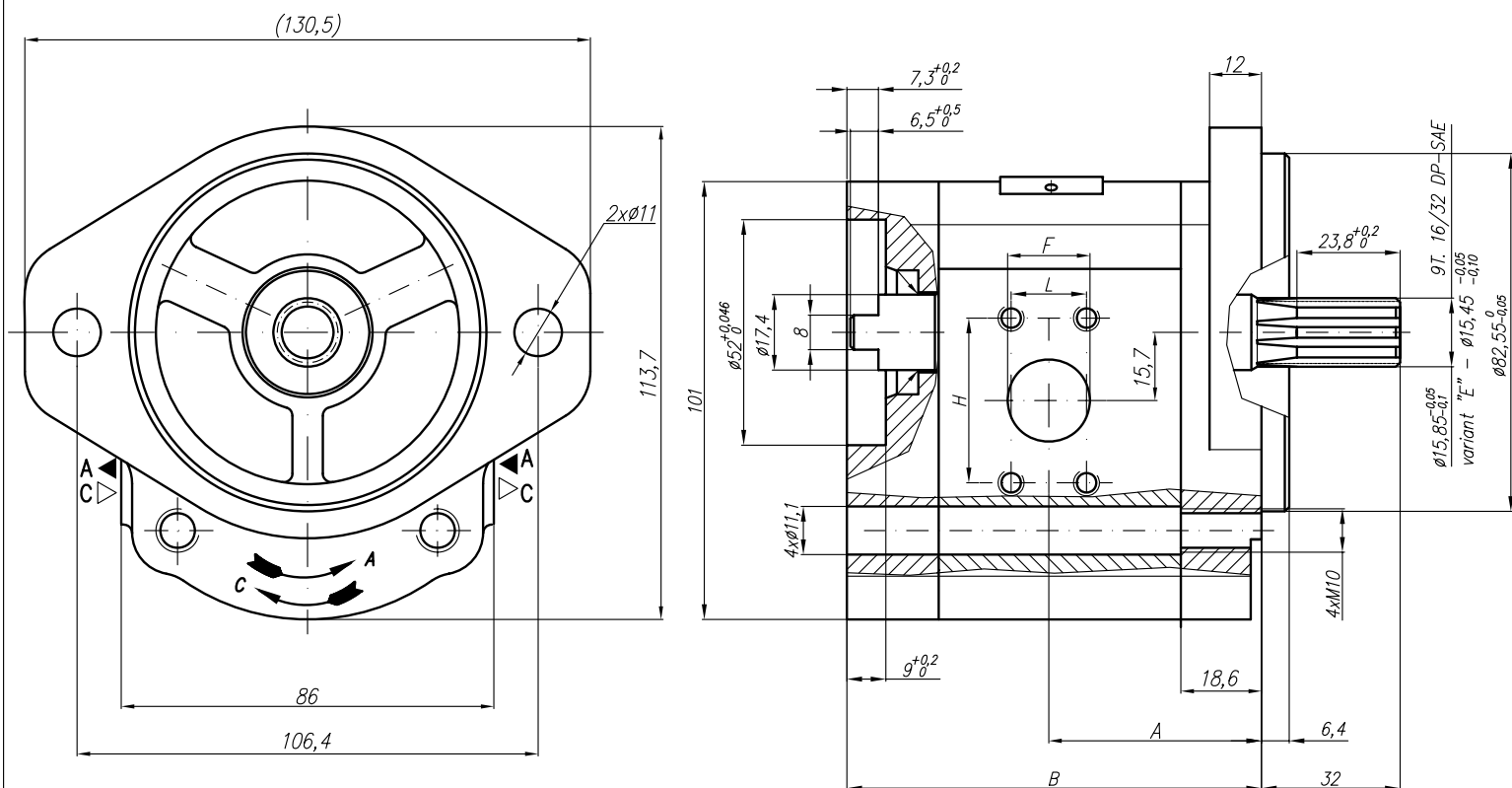
Type	Displacement	Flow		Pressure P _{nom}	max Speed n	Dimension																		
		at 1500 rpm	at max rpm			A	B	Inlet				Outlet												
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	E	F	d	M	G	U	E	F	d	M	G	U					
20A(C)4,5X586...	4,5	6,14	14,33	250	3500	40,5	85,2	30,2	13,1	M6-6H	M20x1,5	G1/2	1 1/16"-12UNF	30,2	13,1	M6-6H	M16x1,5	G1/2	7/8"-14UNF					
20A(C)6,3X586...	6,3	8,69	20,29	250	3500	42	88,2																	
20A(C)8,2X586...	8,2	11,32	26,40	250	3500	43,5	91,1																	
20A(C)10X586...	10	13,95	32,55	250	3500	45	94,1																	
20A(C)11X586...	11,3	15,76	36,78	250	3500	46	96,2																	
20A(C)12X586...	12	16,92	39,48	250	3500	46,6	97,5																	
20A(C)14X586...	14	19,95	46,55	250	3500	48	100,6							39,7	19	M8-6H	G3/4	1 1/16"-12UNF	30,2	14,2	M6-6H	M20x1,5	G1/2	7/8"-14UNF
20A(C)15X586...	15	21,60	36,00	250	2500	49	102,1																	
20A(C)16X586...	16	23,04	38,40	250	2500	50	103,8																	
20A(C)19X586...	19	27,36	45,60	200	2500	52	108,7																	
20A(C)22X586...	22	31,68	42,24	180	2000	55	113,7																	
20A(C)25X586...	25	36,00	48,00	160	2000	57,2	118,5																	



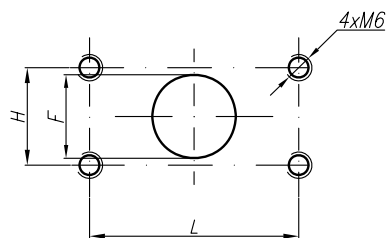
Type	Displacement	Flow		Pressure P _{nom}	max Speed n	Dimension							
		at 1500 rpm	at max rpm			A	B	Inlet			Outlet		
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	E	F	d	E	F	d
20A(C)4,5X586B	4,5	6,14	14,33	250	3500	40,5	85,2	40	15	M6-6H	35	15	M6-6H
20A(C)6,3X586B	6,3	8,69	20,29	250	3500	42	88,2						
20A(C)7X586B	7	9,66	22,54	250	3500	42,5	89,3		20				
20A(C)8,2X586B	8,2	11,32	26,40	250	3500	43,5	91,1						
20A(C)10X586B	10	13,95	32,55	250	3500	45	94,1						
20A(C)11X586B	11,3	15,76	36,78	250	3500	46	96,2						
20A(C)12X586B	12	16,92	39,48	250	3500	46,6	97,5						
20A(C)14X586B	14	19,95	46,55	250	3500	48	100,6						
20A(C)15X586B	15	21,60	36,00	250	2500	49	102,1						
20A(C)16X586B	16	23,04	38,40	250	2500	50	103,8						
20A(C)17,3X586B	17,3	24,91	41,52	230	2500	50,8	105,8						
20A(C)19X586B	19	27,36	45,60	200	2500	52	108,7						
20A(C)22X586B	22	31,68	42,24	180	2000	55	113,7						
20A(C)25X586B	25	36,00	48,00	160	2000	57,2	118,5						



Type	Displacement	Flow		Pressure P _{nom}	max Speed n	Dimension							
		at 1500 rpm	at max rpm			A	B	Inlet			Outlet		
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	M	G	U	M	G	U
20A(C)4,5X588...	4,5	6,14	14,33	250	3500	39,8	78	M20x1,5	G1/2	1 1/16"-12UNF	M16x1,5	G1/2	7/8"-14UNF
20A(C)6,3X588...	6,3	8,69	20,29	250	3500	41	81						
20A(C)8,2X588...	8,2	11,32	26,40	250	3500	43,1	83,9						
20A(C)10X588...	10	13,95	32,55	250	3500	47,5	87		G3/4				
20A(C)11X588...	11,3	15,76	36,78	250	3500	47,5	89,1						
20A(C)12X588...	12	16,92	39,48	250	3500	47,5	90,3						
20A(C)14X588...	14	19,95	46,55	250	3500	47,5	93,4						
20A(C)15X588...	15	21,60	36,00	250	2500	47,5	95						
20A(C)16X588...	16	23,04	38,40	250	2500	47,5	96,6						
20A(C)19X588...	19	27,36	45,60	200	2500	47,5	101,5						
20A(C)22X588...	22	31,68	42,24	180	2000	55	106,5						
20A(C)25X588...	25	36,00	48,00	160	2000	57,2	111,4						

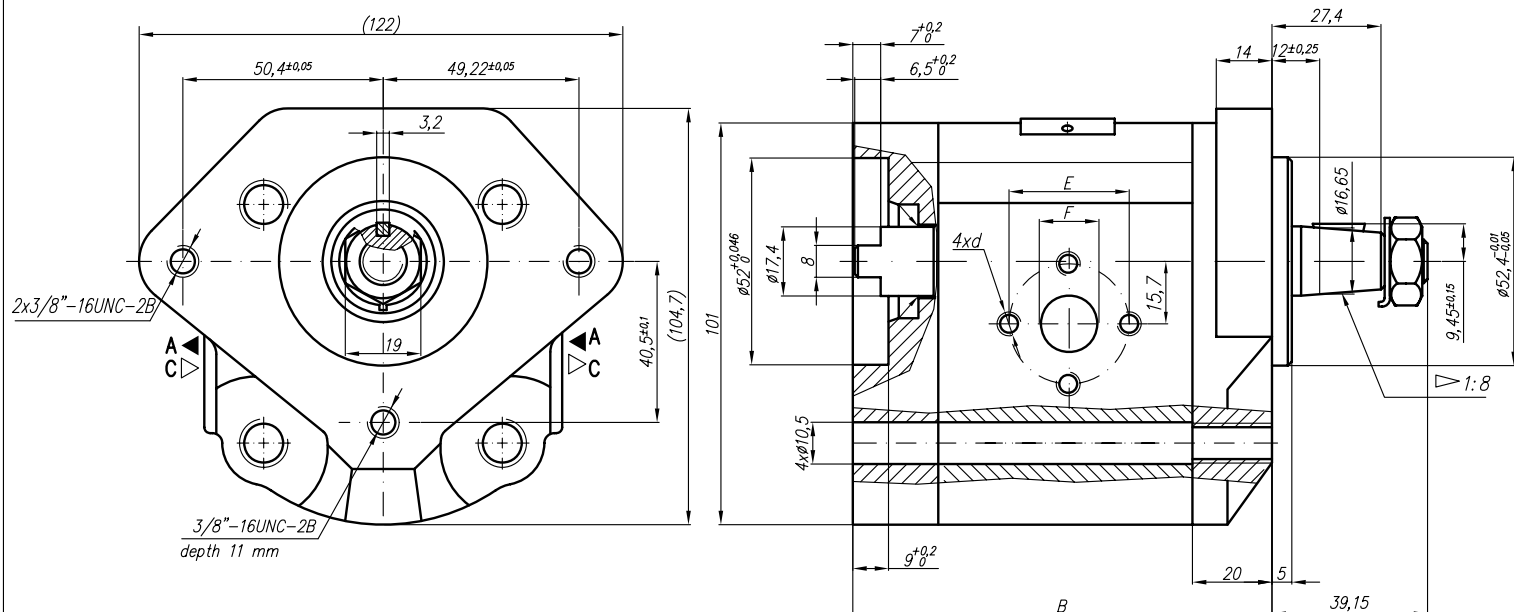


At pump displacement above 10ccm the Inlet port is rotated:



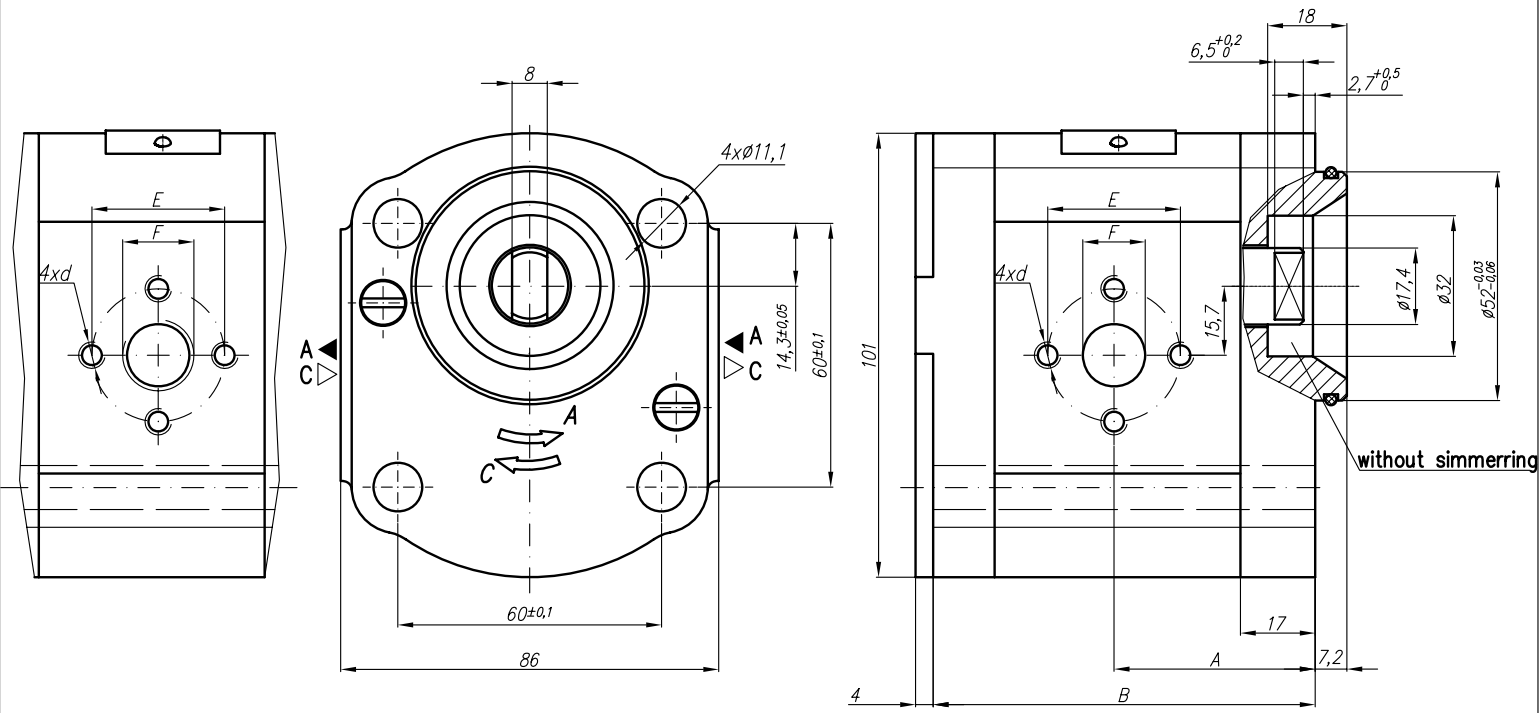
Type	Displacement	Flow		Pressure	max Speed	Dimension							
		at 1500 rpm	at max rpm			P _{nom}	n	A	B	Inlet			Outlet
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	H	L	F	H	L	F
20A(C)4,5X590	4,5	6,14	14,33	250	3500			38,1	17,4	15	38,1	17,4	15
20A(C)6,3X590	6,3	8,69	20,29	250	3500								
20A(C)8,2X590	8,2	11,32	26,40	250	3500								
20A(C)10X590	10	13,95	32,55	250	3500	43,5	95,7	22,2	47,6	19			
20A(C)11X590	11,3	15,76	36,78	250	3500								
20A(C)12X590	12	16,92	39,48	250	3500								
20A(C)14X590	14	19,95	46,55	250	3500								
20A(C)15X590	15	21,60	36,00	250	2500								
20A(C)16X590	16	23,04	38,40	250	2500								
20A(C)19X590	19	27,36	45,60	200	2500								
20A(C)22X590	22	31,68	42,24	180	2000								
20A(C)25X590	25	36,00	48,00	160	2000			25					

Designed as I section of tandem pump 22A(C)...X596/...X597



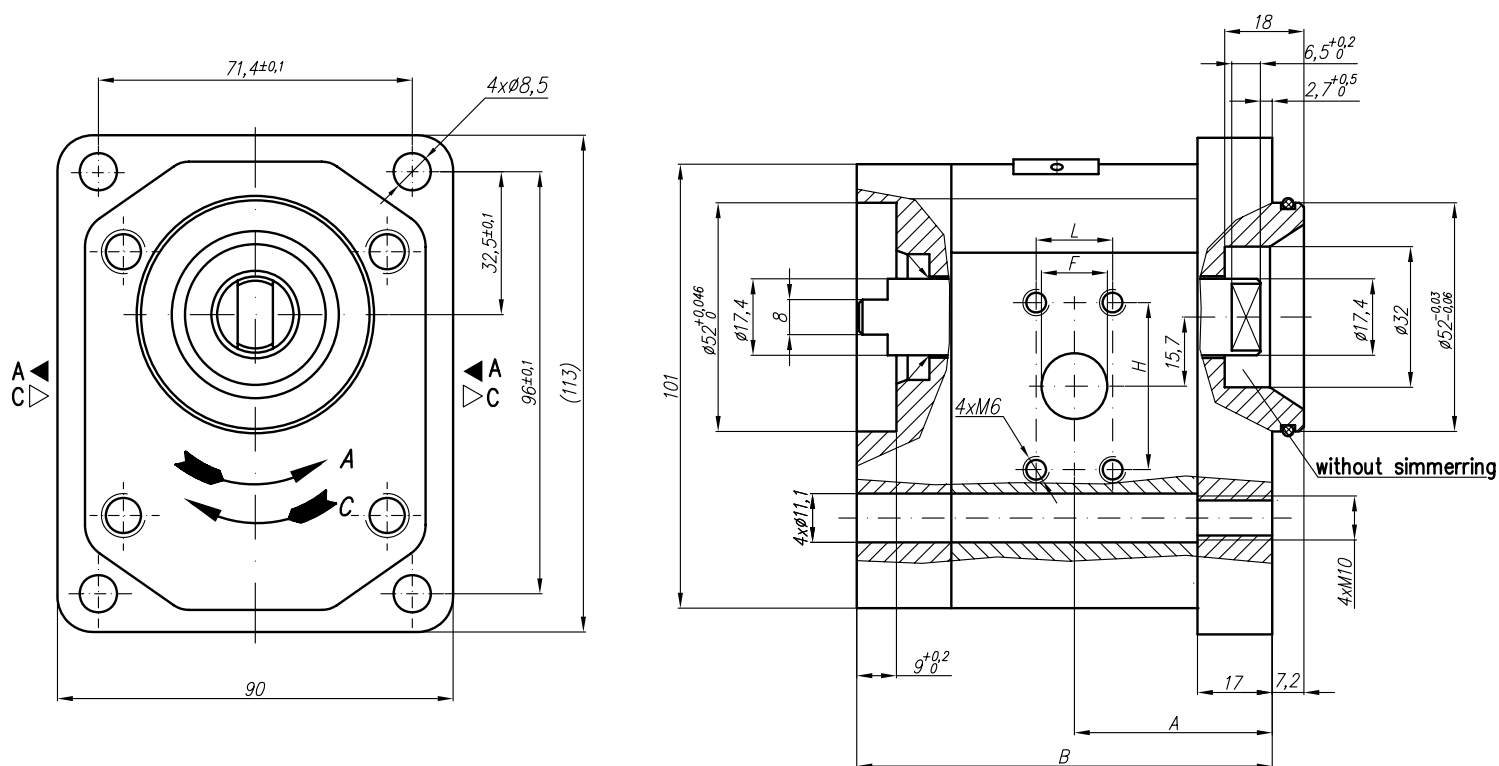
Type	Displacement	Flow		Pressure	max Speed	Dimension									
		at 1500 rpm	at max rpm			P _{nom}	n	A	B	Inlet			Outlet		
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	E	F	d	E	F	d		
20A(C)4,5X596	4,5	6,14	14,33	250	3500	43,5	88,2	30,2	13,1	M6-6H	30,2	13,1	M6-6H		
20A(C)6,3X596	6,3	8,69	20,29	250	3500	45	91,2								
20A(C)8,2X596	8,2	11,32	26,40	250	3500	46,5	94,1								
20A(C)10X596	10	13,95	32,55	250	3500	48	97,2	39,7	19	M8-6H		30,2		14,2	M6-6H
20A(C)11X596	11,3	15,76	36,78	250	3500	49	99,2								
20A(C)12X596	12	16,92	39,48	250	3500	49,6	100,5								
20A(C)14X596	14	19,95	46,55	250	3500	51	103,6								
20A(C)15X596	15	21,60	36,00	250	2500	52	105,1								
20A(C)16X596	16	23,04	38,40	250	2500	53	106,8								
20A(C)19X596	19	27,36	45,60	200	2500	55	111,7								
20A(C)22X596	22	31,68	42,24	180	2000	58	116,7								
20A(C)25X596	25	36,00	48,00	160	2000	60,2	121,6				39,7		19	M8	

Designed as II section of tandem pump 22A(C)...X596/...X597

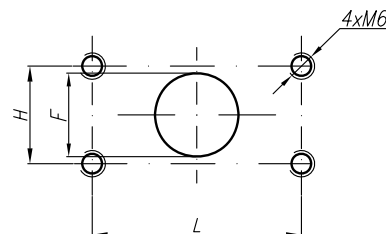


Type	Displacement	Flow		Pressure	max Speed	Dimension							
		at 1500 rpm	at max rpm			A	B	Inlet			Outlet		
	cm ³ /rev	l/min	l/min	P _{nom} bar	n rpm	mm	mm	E	F	d	E	F	d
20A(C)4,5X597	4,5	6,14	14,33	250	3500	39,3	78	30,2	13,1	M6-6H	30,2	G3/8"	M6-6H
20A(C)6,3X597	6,3	8,69	20,29	250	3500								
20A(C)8,2X597	8,2	11,32	26,40	250	3500								
20A(C)10X597	10	13,95	32,55	250	3500								
20A(C)11X597	11,3	15,76	36,78	250	3500								
20A(C)12X597	12	16,92	39,48	250	3500								
20A(C)14X597	14	19,95	46,55	250	3500								
20A(C)15X597	15	21,60	36,00	250	2500								
20A(C)16X597	16	23,04	38,40	250	2500								
20A(C)19X597	19	27,36	45,60	200	2500								
20A(C)22X597	22	31,68	42,24	180	2000								
20A(C)25X597	25	36,00	48,00	160	2000								

Designed as 1 section of tandem gear pump 22A(C)...X601/...X602

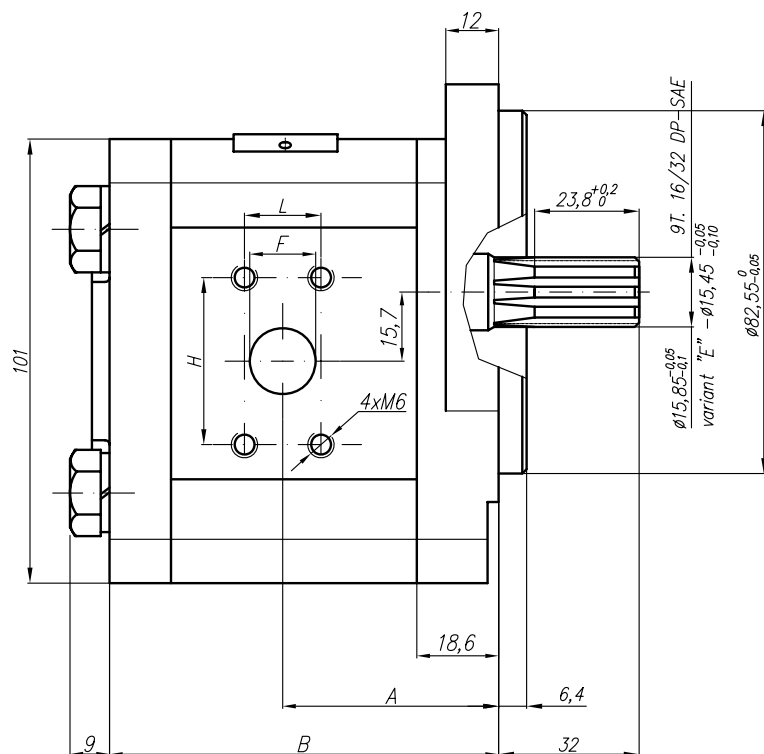
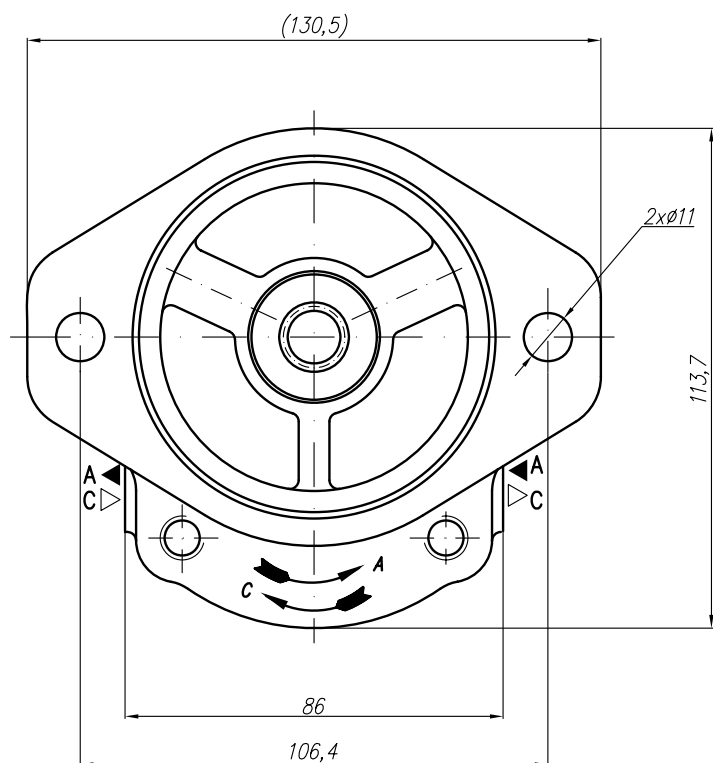


At pump displacement above 10ccm the Inlet port is rotated:

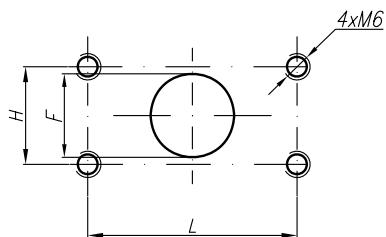


Type	Displacement	Flow		Pressure P _{nom}	max Speed n	Dimension										
		at 1500 rpm	at max rpm			A	B	Inlet			Outlet					
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	H	L	F	H	L	F			
20A(C)4,5X601	4,5	6,14	14,33	250	3500	40,5	85,2	38,1	17,4	15	38,1	17,4	15			
20A(C)6,3X601	6,3	8,69	20,29	250	3500	42	88,2									
20A(C)8,2X601	8,2	11,32	26,40	250	3500	43,5	91,1									
20A(C)10X601	10	13,95	32,55	250	3500	45	94,1	22,2	47,6	19				38,1	17,4	15
20A(C)11X601	11,3	15,76	36,78	250	3500	46	96,2									
20A(C)12X601	12	16,92	39,48	250	3500	46,5	97,5									
20A(C)14X601	14	19,95	46,55	250	3500	48	100,6									
20A(C)15X601	15	21,60	36,00	250	2500	49	102,1									
20A(C)16X601	16	23,04	38,40	250	2500	50	103,8									
20A(C)19X601	19	27,36	45,60	200	2500	52	108,7									
20A(C)22X601	22	31,68	42,24	180	2000	55	113,7									
20A(C)25X601	25	36,00	48,00	160	2000	57,2	118,5									

Type	Displacement	Flow		Pressure	max Speed	Dimension										
		at 1500 rpm	at max rpm			P _{nom}	n	A	B	Inlet			Outlet			
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	H	L	F	H	L	F			
20A(C)4,5X602	4,5	6,14	14,33	250	3500	40,5	78	38,1	17,4	15	38,1	17,4	15			
20A(C)6,3X602	6,3	8,69	20,29	250	3500	42	81									
20A(C)8,2X602	8,2	11,32	26,40	250	3500	43,5	83,9									
20A(C)10X602	10	13,95	32,55	250	3500	45	87									
20A(C)11X602	11,3	15,76	36,78	250	3500	46	89,1	22,2	47,6	19				38,1	17,4	15
20A(C)12X602	12	16,92	39,48	250	3500	46,5	90,3									
20A(C)14X602	14	19,95	46,55	250	3500	48	93,4									
20A(C)15X602	15	21,60	36,00	250	2500	49	95									
20A(C)16X602	16	23,04	38,40	250	2500	50	96,6									
20A(C)19X602	19	27,36	45,60	200	2500	52	101,5									
20A(C)22X602	22	31,68	42,24	180	2000	55	106,5									
20A(C)25X602	25	36,00	48,00	160	2000	57,2	111,4									

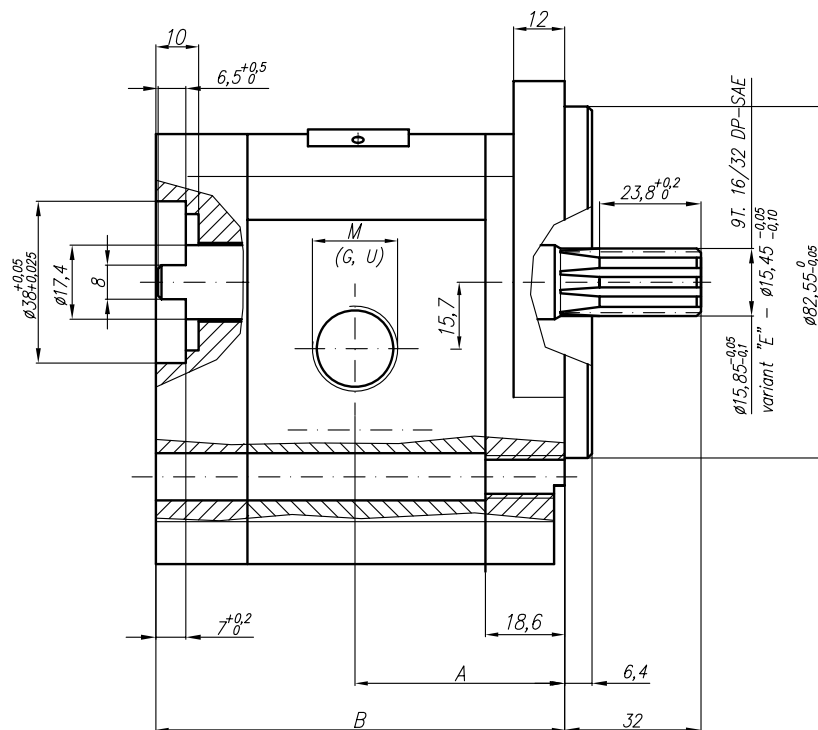
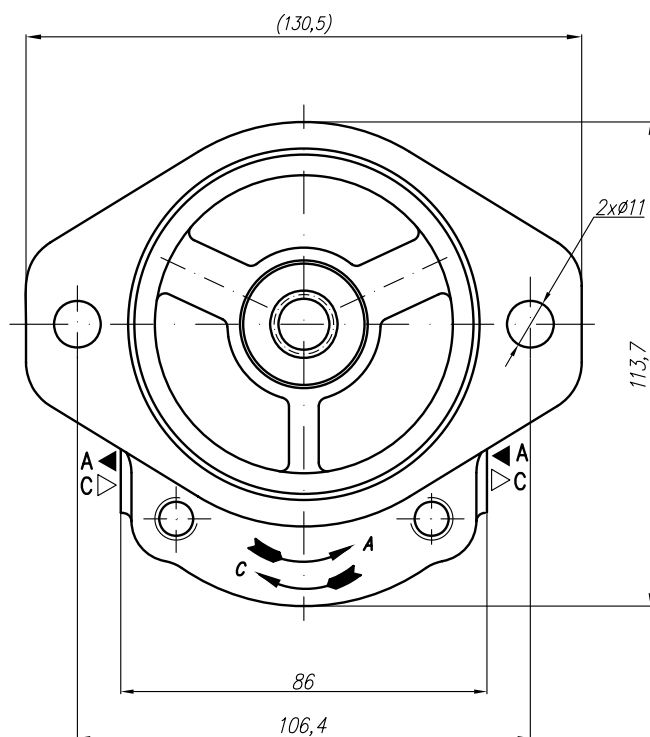


At pump displacement above 10ccm the Inlet port is rotated:

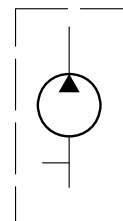


Type	Displacement	Flow		Pressure P _{nom}	max Speed n	Dimension										
		at 1500 rpm	at max rpm			A	B	Inlet			Outlet					
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	H	L	F	H	L	F			
20A(C)4,5X604	4,5	6,14	14,33	250	3500	40,5	78	38,1	17,4	15	38,1	17,4	15			
20A(C)6,3X604	6,3	8,69	20,29	250	3500	42	81									
20A(C)8,2X604	8,2	11,32	26,40	250	3500	43,5	83,9									
20A(C)10X604	10	13,95	32,55	250	3500	45	87									
20A(C)11X604	11,3	15,76	36,78	250	3500	46	89,1	22,2	47,6	19				38,1	17,4	15
20A(C)12X604	12	16,92	39,48	250	3500	46,5	90,3									
20A(C)14X604	14	19,95	46,55	250	3500	48	93,4									
20A(C)15X604	15	21,60	36,00	250	2500	49	95									
20A(C)16X604	16	23,04	38,40	250	2500	50	96,6									
20A(C)19X604	19	27,36	45,60	200	2500	52	101,5									
20A(C)22X604	22	31,68	42,24	180	2000	55	106,5									
20A(C)25X604	25	36,00	48,00	160	2000	57,2	111,4									

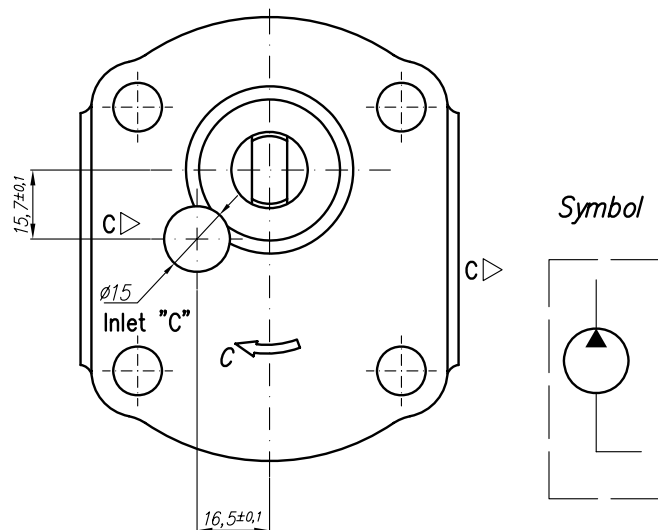
Designed as a special version – I section of tandem pump 22A(C)...X621.../...X622...



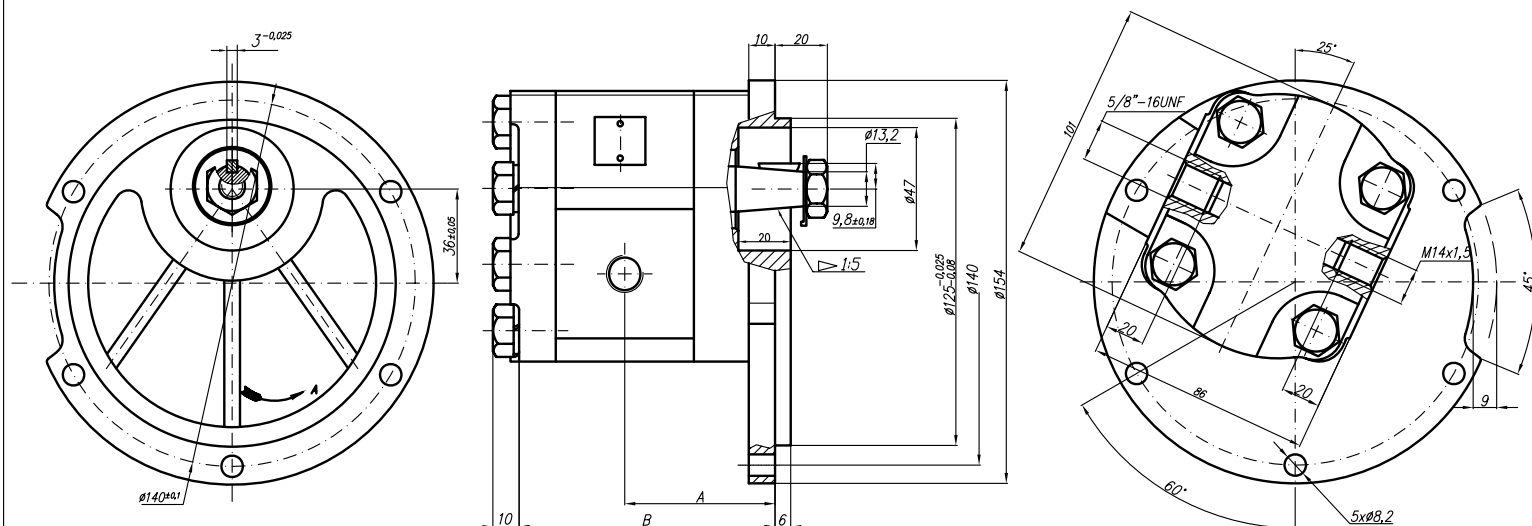
Symbol



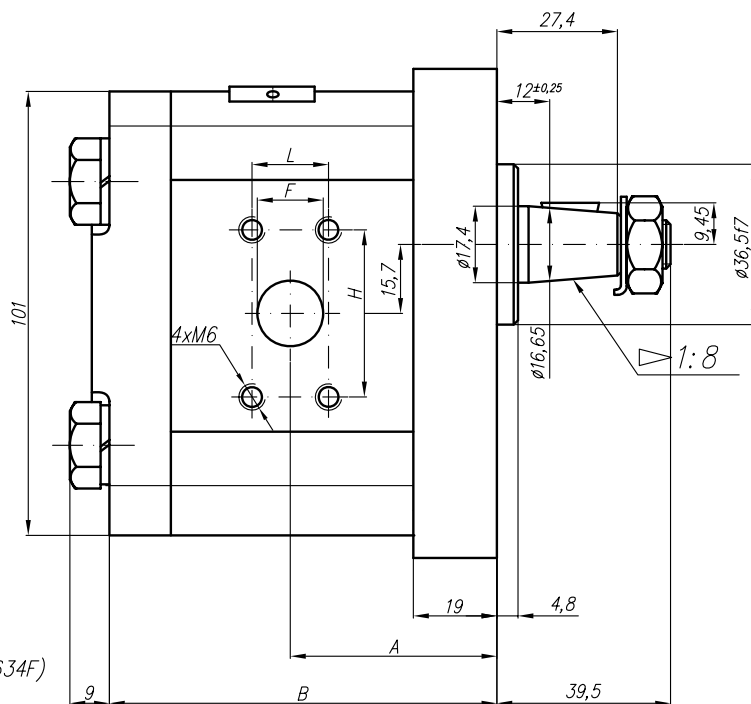
Type	Displacement cm ³ /rev	Flow		Pressure P _{nom} bar	max Speed n rpm	Dimension							
		at 1500 rpm l/min	at max rpm l/min			A mm	B mm	Inlet			Outlet		
								M	G	U	M	G	U
20A(C)4,5X621...	4,5	6,14	14,33	250	3500								
20A(C)6,3X621...	6,3	8,69	20,29	250	3500								
20A(C)8,2X621...	8,2	11,32	26,40	250	3500								
20A(C)10X621...	10	13,95	32,55	250	3500								
20A(C)11X621...	11,3	15,76	36,78	250	3500								
20A(C)12X621...	12	16,92	39,48	250	3500								
20A(C)14X621...	14	19,95	46,55	250	3500								
20A(C)15X621...	15	21,60	36,00	250	2500								
20A(C)16X621...	16	23,04	38,40	250	2500	51,6	105,3						
20A(C)19X621...	19	27,36	45,60	200	2500								
20A(C)22X621...	22	31,68	42,24	180	2000								
20A(C)25X621...	25	36,00	48,00	160	2000								



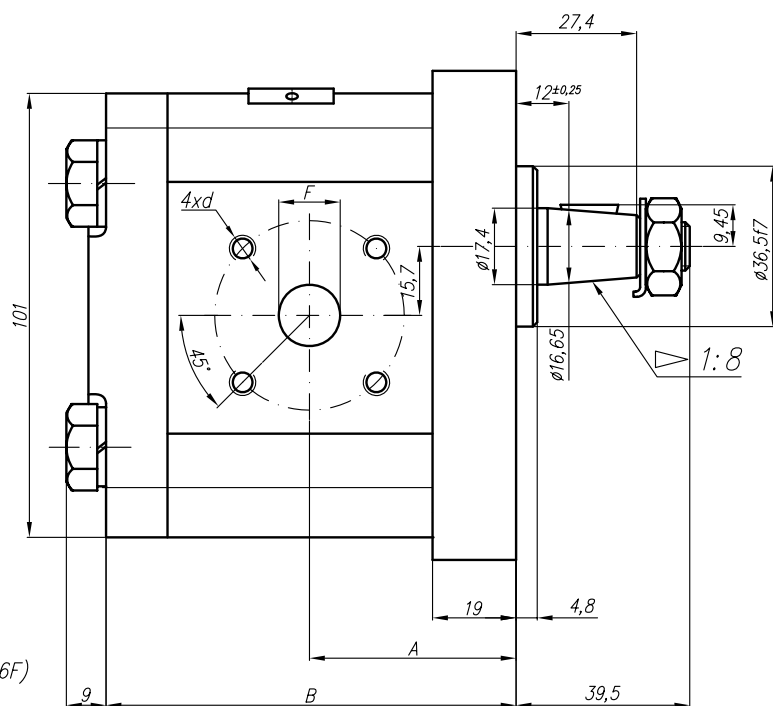
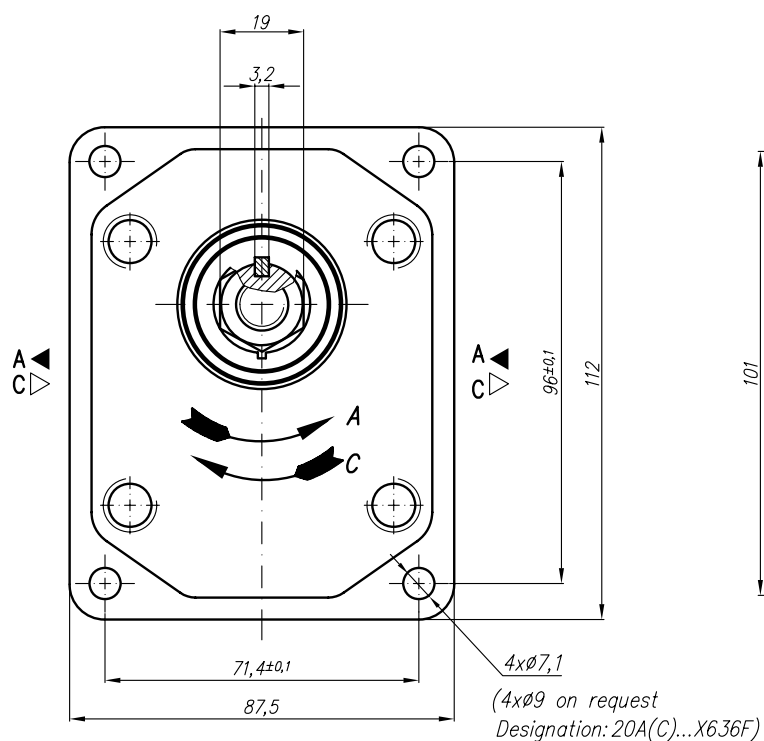
Type	Displacement	Flow		Pressure P _{nom}	max Speed n	Dimension							
		at 1500 rpm	at max rpm			A	B	Inlet			Outlet		
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	d			M	G	G2
20A(C)4,5X622..	4,5	6,14	14,33	250	3500	40,5	78					G3/8	G1/2
20A(C)6,3X622..	6,3	8,69	20,29	250	3500	42	81						
20A(C)8,2X622..	8,2	11,32	26,40	250	3500								
20A(C)10X622..	10	13,95	32,55	250	3500								
20A(C)11X622..	11,3	15,76	36,78	250	3500	46	89,1						
20A(C)12X622..	12	16,92	39,48	250	3500								
20A(C)14X622..	14	19,95	46,55	250	3500								
20A(C)15X622..	15	21,60	36,00	250	2500								
20A(C)16X622..	16	23,04	38,40	250	2500								
20A(C)19X622..	19	27,36	45,60	200	2500								
20A(C)22X622..	22	31,68	42,24	180	2000								



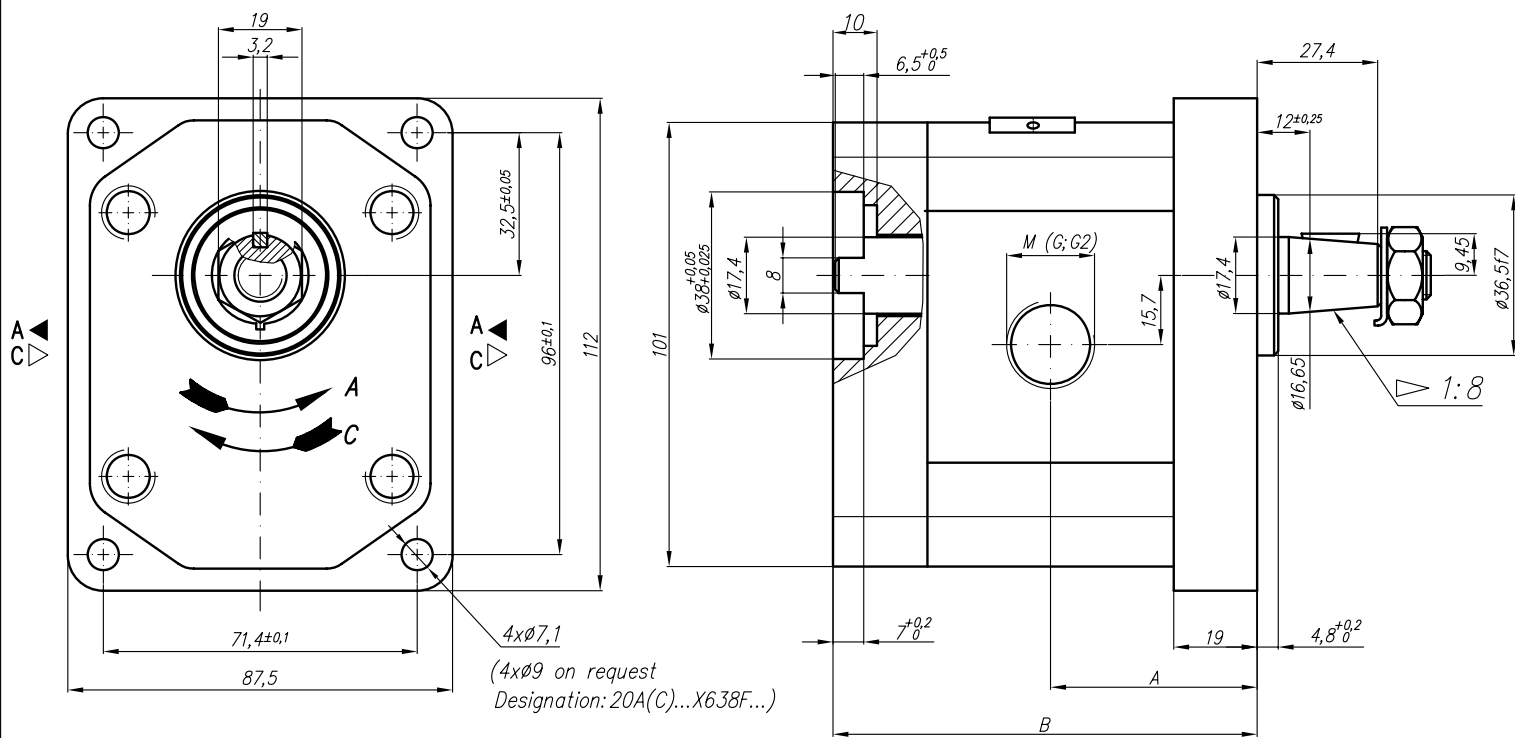
Type	Displacement	Flow		Pressure	max Speed	Dimension							
		at 1500 rpm	at max rpm			P _{nom}	n	A	B	Inlet			Outlet
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	M	G	U	M	G	U
20A(C)4,5X628UM	4,5	6,14	14,33	250	3500			5/8"-18UNF-2B			M14x1,5		
20A(C)6,3X628UM	6,3	8,69	20,29	250	3500								
20A(C)8,2X628UM	8,2	11,32	26,40	250	3500								
20A(C)10X628UM	10	13,95	32,55	250	3500	56	97,9						
20A(C)11X628UM	11,3	15,76	36,78	250	3500	57	100						
20A(C)12X628UM	12	16,92	39,48	250	3500								
20A(C)14X628UM	14	19,95	46,55	250	3500								
20A(C)15X628UM	15	21,60	36,00	250	2500								
20A(C)16X628UM	16	23,04	38,40	250	2500								
20A(C)19X628UM	19	27,36	45,60	200	2500								
20A(C)22X628UM	22	31,68	42,24	180	2000								
20A(C)25X628UM	25	36,00	48,00	160	2000								



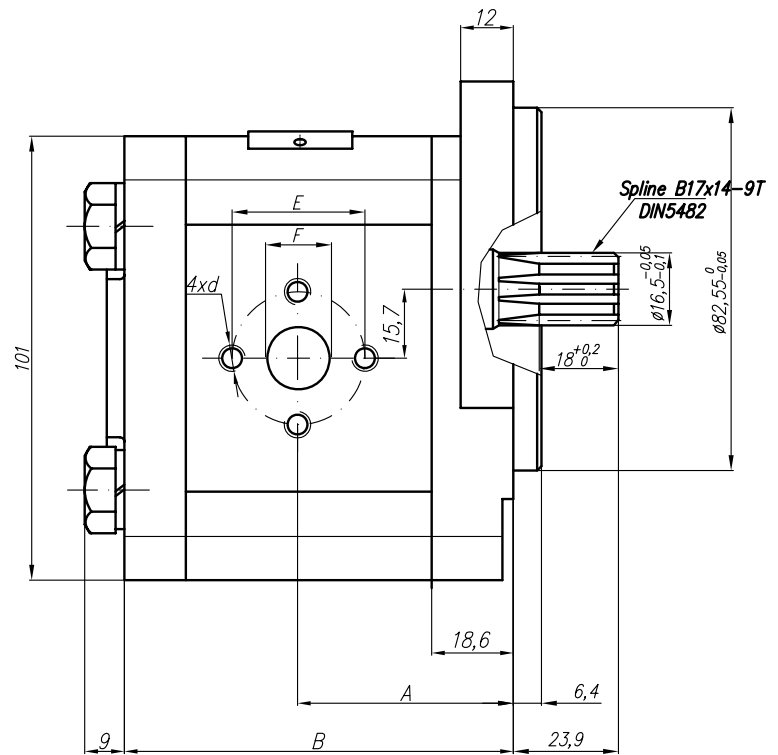
Type	Displacement	Flow		Pressure	max Speed	Dimension										
		at 1500 rpm	at max rpm			P _{nom}	n	A	B	Inlet			Outlet			
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	H	L	F	H	L	F			
20A(C)4,5X634	4,5	6,14	14,33	250	3500	42,5	80	38,1	17,4	15	38,1	17,4	15			
20A(C)6,3X634	6,3	8,69	20,29	250	3500	44	83									
20A(C)8,2X634	8,2	11,32	26,40	250	3500	45,5	86									
20A(C)10X634	10	13,95	32,55	250	3500	47	89									
20A(C)11X634	11,3	15,76	36,78	250	3500	48	91,1	22,2	47,6	19				38,1	17,4	15
20A(C)12X634	12	16,92	39,48	250	3500	48,6	92,3									
20A(C)14X634	14	19,95	46,55	250	3500	50	95,4									
20A(C)15X634	15	21,60	36,00	250	2500	51	96,9									
20A(C)16X634	16	23,04	38,40	250	2500	52	98,6									
20A(C)19X634	19	27,36	45,60	200	2500	54	103,5									
20A(C)22X634	22	31,68	42,24	180	2000	57	108,5									
20A(C)25X634	25	36,00	48,00	160	2000	59,2	113,4									



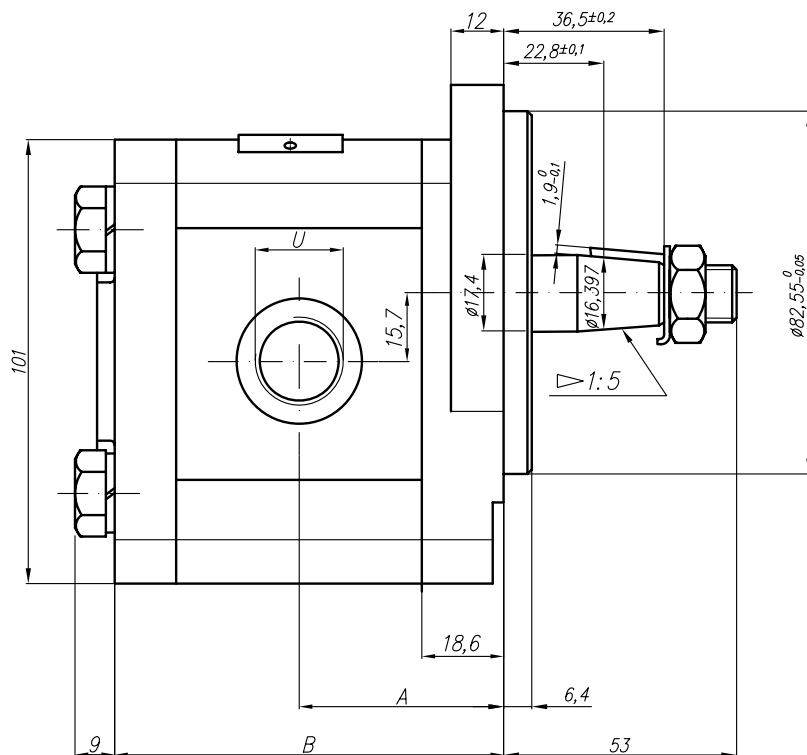
Type	Displacement	Flow		Pressure	max Speed	Dimension							
		at 1500 rpm	at max rpm			P _{nom}	n	A	B	Inlet			Outlet
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	E	F	d	E	F	d
20A(C)4,5X636	4,5							43,1	14	5/16"-18UNC	43,1	14	5/16"-18UNC
20A(C)6,3X636	6,3	8,69	20,29	250	3500	42,5	80						
20A(C)8,2X636	8,2	11,32	26,40	250	3500	42,5	80						
20A(C)10X636	10	13,95	32,55	250	3500	47	89		19				
20A(C)11X636	11,3	15,76	36,78	250	3500	48	91,1						
20A(C)12X636	12	16,92	39,48	250	3500	48,6	92,3						
20A(C)14X636	14	19,95	46,55	250	3500	50	95,4						
20A(C)15X636	15	21,60	36,00	250	2500	51	96,9						
20A(C)16X636	16	23,04	38,40	250	2500	52	98,6						
20A(C)19X636	19	27,36	45,60	200	2500	54	103,5						
20A(C)22X636	22	31,68	42,24	180	2000	57	108,5						
20A(C)25X636	25	36,00	48,00	160	2000	59,2	113,4		19				



Type	Displacement	Flow		Pressure	max Speed	Dimension							
		at 1500 rpm	at max rpm			P _{nom}	n	A	B	Inlet			Outlet
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	M	G	G2	M	G	G2
20A(C)4,5X638...	4,5	6,14	14,33	250	3500			G1"		G3/4"		G1/2"	G1/2"
20A(C)6,3X638...	6,3	8,69	20,29	250	3500								
20A(C)8,2X638...	8,2	11,32	26,40	250	3500	45,5	93,1						
20A(C)10X638...	10	13,95	32,55	250	3500								
20A(C)11X638...	11,3	15,76	36,78	250	3500								
20A(C)12X638...	12	16,92	39,48	250	3500								
20A(C)14X638...	14	19,95	46,55	250	3500								
20A(C)15X638...	15	21,60	36,00	250	2500								
20A(C)16X638...	16	23,04	38,40	250	2500								
20A(C)19X638...	19	27,36	45,60	200	2500								
20A(C)22X638...	22	31,68	42,24	180	2000								
20A(C)25X638...	25	36,00	48,00	160	2000	59,2	120,6						



Type	Displacement	Flow		Pressure	max Speed	Dimension								
		at 1500 rpm	at max rpm			P _{nom}	n	A	B	Inlet			Outlet	
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	E	F	d	E	F	d	
20A(C)4,5X647	4,5	6,14	14,33	250	3500	42	79,6	30,2	13,1	M6-6H	30,2	13,1	M6-6H	
20A(C)6,3X647	6,3	8,69	20,29	250	3500	43,6	82,6							
20A(C)8,2X647	8,2	11,32	26,40	250	3500	45	85,6							
20A(C)10X647	10	13,95	32,55	250	3500	46,6	88,7	39,7	19	M8-6H		14,2		M8
20A(C)11X647	11,3	15,76	36,78	250	3500	47,6	90,7							
20A(C)12X647	12	16,92	39,48	250	3500	48,2	91,9							
20A(C)14X647	14	19,95	46,55	250	3500	49,6	95							
20A(C)15X647	15	21,60	36,00	250	2500	50,6	96,5							
20A(C)16X647	16	23,04	38,40	250	2500	51,6	98,2							
20A(C)19X647	19	27,36	45,60	200	2500	53,6	103,1							
20A(C)22X647	22	31,68	42,24	180	2000	56,6	108,1							
20A(C)25X647	25	36,00	48,00	160	2000	58,8	113							



Type	Displacement	Flow		Pressure P _{nom}	max Speed n	Dimension							
		at 1500 rpm	at max rpm			A	B	Inlet			Outlet		
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	M	G	U	M	G	U
20A(C)4,5X650U	4,5	6,14	14,33	250	3500	42	79,6			1 1/16" -12UNF			7/8" -14UNF
20A(C)6,3X650U	6,3	8,69	20,29	250	3500	43,6	82,6						
20A(C)8,2X650U	8,2	11,32	26,40	250	3500	45	85,6						
20A(C)10X650U	10	13,95	32,55	250	3500	46,6	88,7						
20A(C)11X650U	11,3	15,76	36,78	250	3500	47,6	90,7						
20A(C)12X650U	12	16,92	39,48	250	3500	48,2	91,9						
20A(C)14X650U	14	19,95	46,55	250	3500	49,6	95						
20A(C)15X650U	15	21,60	36,00	250	2500	50,6	96,5						
20A(C)16X650U	16	23,04	38,40	250	2500	51,6	98,2						
20A(C)19X650U	19	27,36	45,60	200	2500	53,6	103,1						
20A(C)22X650U	22	31,68	42,24	180	2000	56,6	108,1						
20A(C)25X650U	25	36,00	48,00	160	2000	58,8	113						

Technical drawing of a mechanical part, showing three views: front view (left), top view (middle), and side view (right).

Front View (Left): Shows a circular component with a central hub and four spokes. Dimensions include an outer diameter of $130,5$, a central hole diameter of 86 , and a total width of $106,4 \pm 0,1$. There are four mounting holes with a diameter of $2 \times \phi 11,1$. Surface finish symbols A and C are indicated.

Top View (Middle): Shows the component from above. Dimensions include a total width of 101 , a central hole diameter of $\phi 5,2^{+0,046}_0$, and a distance of 8 from the center to the mounting holes. There are four mounting holes with a diameter of $4 \times \phi 11,1$. Surface finish symbols A and C are indicated.

Side View (Right): Shows the component from the side. Dimensions include a total height of 101 , a central hole diameter of $\phi 17,4$, and a distance of 8 from the center to the mounting holes. There are four mounting holes with a diameter of $4 \times \phi 11,1$. The side view also shows a central hole with a diameter of $\phi 17,4$ and a distance of 8 from the center to the mounting holes. The side view also shows a central hole with a diameter of $\phi 17,4$ and a distance of 8 from the center to the mounting holes. The side view also shows a central hole with a diameter of $\phi 17,4$ and a distance of 8 from the center to the mounting holes.

Type	Displacement	Flow		Pressure P _{nom}	max Speed n	Dimension											
		at 1500 rpm	at max rpm			A	B	Inlet				Outlet					
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	E	H	d	F	U	E	H	d	F	U
20A(C)15X664H	15	20,48	47,78	250	3500	55,6	114	52,7	26,2	3/8"-14UNC-2B	25		47,6	22,2	3/8"-14UNC-2B		
20A(C)16X664H	16	22,08	51,52	250	3500	56,6	115,6										
20A(C)17,3X664H	17,3	23,87	55,71	230	3500	57,6	117,7										
20A(C)18,2X664H	18,2	25,39	59,24	210	3500	58,4	119,3										
20A(C)19X664H	19	26,51	61,85	200	3500	59	120,6										
20A(C)22X664H	22	31,02	72,38	180	3500	61,5	125,2										
20A(C)25X664H	25	35,63	83,13	160	3500	63,9	130,5										
20A(C)28X664H	28	40,32	67,20	130	2500	66,4	135,3										
20A(C)32X664H	32	46,08	76,80	120	2500	69,6	141,6										
20A(C)36X664H	36	51,84	86,40	100	2500	72,8	148,2										

The technical drawing consists of two views of a mechanical component.

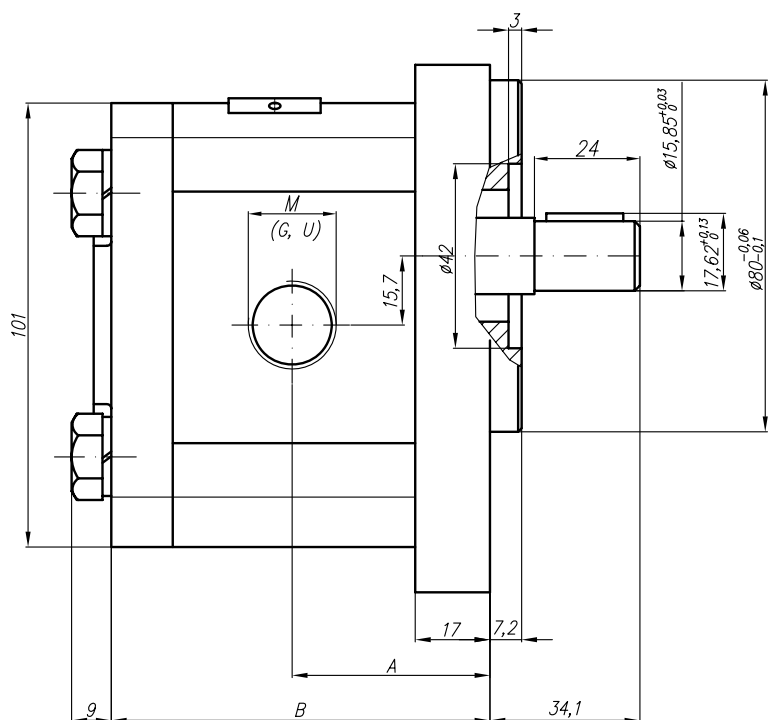
Front View (Left):

- Overall width: 86
- Overall height: 101
- Central circular feature with concentric rings.
- Four small circles around the center, labeled $4 \times \phi 11,1$.
- Dimension 8 at the top center.
- Dimension 60 ± 0,1 across the bottom.
- Dimension 14 ± 0,05 from the bottom edge to the center of the four small circles.
- Surface texture symbols (A and C) are present.
- A curved arrow indicates a rotation or movement.

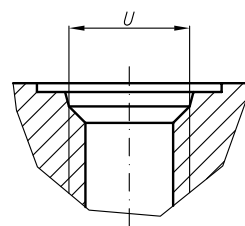
Side View (Right):

- Overall width: 101
- Overall height: 101
- Internal features including a central circle and several smaller circles.
- Dimensions E, F, H, A, B, and 7,2 are indicated.
- Dimension 15,7 is shown between two horizontal lines.
- Dimension 18 is shown at the top right.
- Dimension 6,5^{+0,2}₀ and 2,7^{+0,5}₀ are shown near the top right corner.
- Dimension 17,4 is shown for a vertical section.
- Dimension 32 is shown for a vertical section.
- Dimension 52 ± 0,06 is shown for a vertical section.
- Text "without simmerring" is written near the bottom right corner.

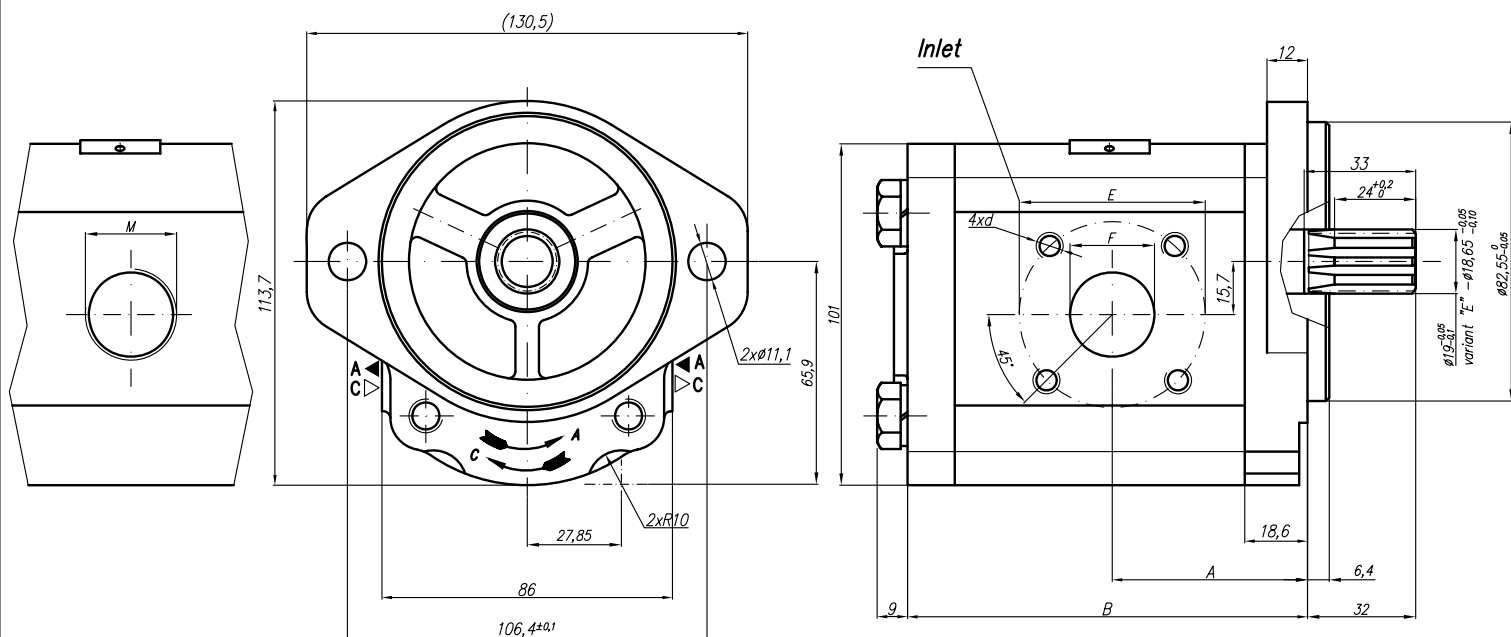
Type	Displacement	Flow		Pressure P _{nom}	max Speed n	Dimension											
		at 1500 rpm	at max rpm			A	B	Inlet				Outlet					
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	E	H	d	F	U	E	H	d	F	U
20A(C)15X665H	15	20,48	47,78	250	3500	54	105,2	52,7	26,2	3/8"-14UNC-2B	25		47,6	22,2	3/8"-14UNC-2B		
20A(C)16X665H	16	22,08	51,52	250	3500	54,9	106,8										
20A(C)17,3X665H	17,3	23,87	55,71	230	3500	56	108,9										
20A(C)18,2X665H	18,2	25,39	59,24	210	3500	56,8	110,5										
20A(C)19X665H	19	26,51	61,85	200	3500	57,4	111,8										
20A(C)22X665H	22	31,02	72,38	180	3500	59,9	116,8										
20A(C)25X665H	25	35,63	83,13	160	3500	62,3	121,7										
20A(C)28X665H	28	40,32	67,20	130	2500	64,8	126,5										
20A(C)32X665H	32	46,08	76,80	120	2500	68	132,8										
20A(C)36X665H	36	51,84	86,40	100	2500	71,2	139,4										



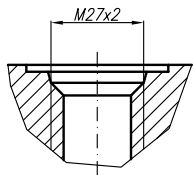
SAE J475 (ISO R725)



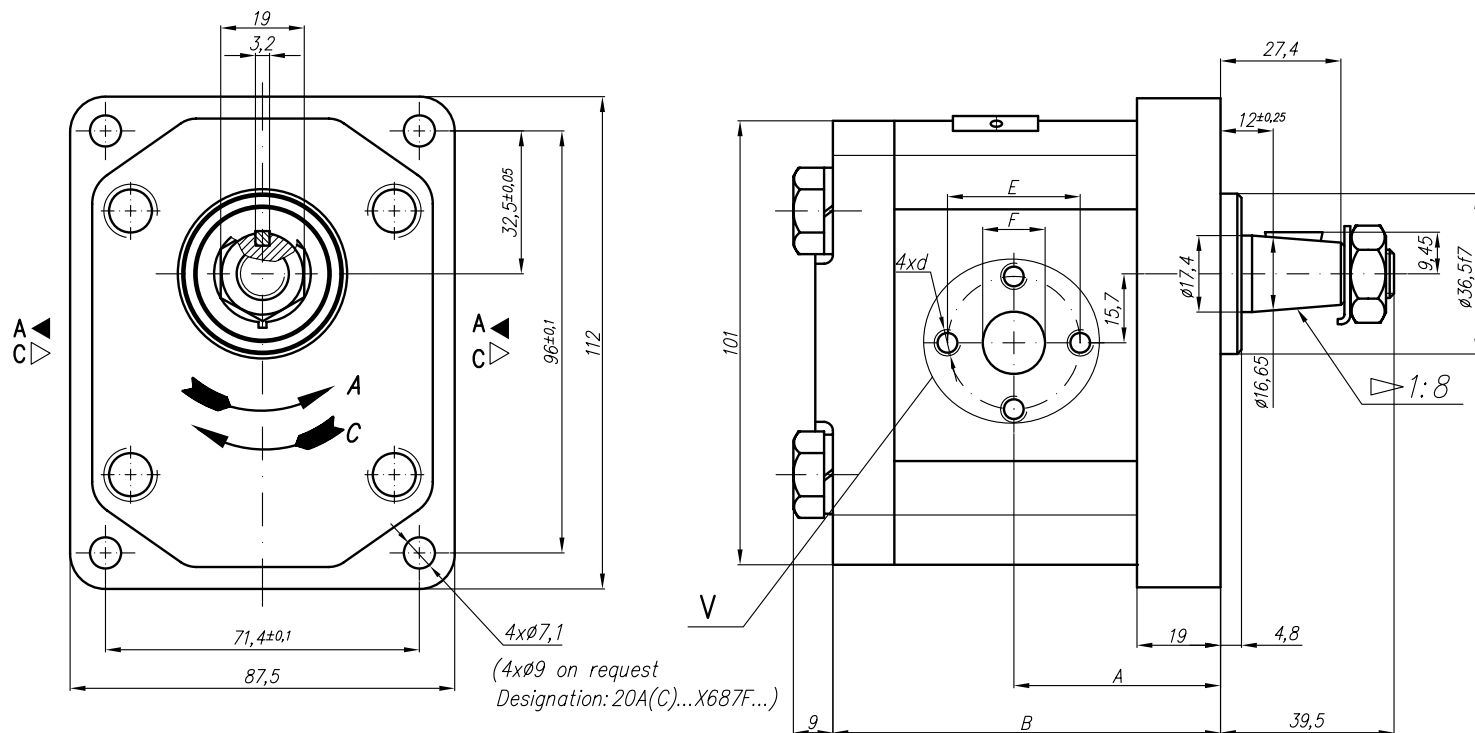
Type	Displacement	Flow		Pressure	max Speed	Dimension							
		at 1500 rpm	at max rpm			P _{nom}	n	A	B	Inlet			Outlet
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	M	G	U	M	G	U
20A(C)4,5X670...	4,5	6,14	14,33	250	3500	39,8	78	M20x1,5	G1/2	1 1/16"-12UNF	M16x1,5	G1/2	7/8"-14UNF
20A(C)6,3X670...	6,3	8,69	20,29	250	3500	41	81						
20A(C)8,2X670...	8,2	11,32	26,40	250	3500	43,1	83,9						
20A(C)10X670...	10	13,95	32,55	250	3500	47,5	87		G3/4				
20A(C)11X670...	11,3	15,76	36,78	250	3500	47,5	89,1						
20A(C)12X670...	12	16,92	39,48	250	3500	47,5	90,3						
20A(C)14X670...	14	19,95	46,55	250	3500	47,5	93,4						
20A(C)15X670...	15	21,60	36,00	250	2500	47,5	94,9						
20A(C)16X670...	16	23,04	38,40	250	2500	47,5	96,6						
20A(C)19X670...	19	27,36	45,60	200	2500	47,5	101,5						
20A(C)22X670...	22	31,68	42,24	180	2000	55	106,5						
20A(C)25X670...	25	36,00	48,00	160	2000	57,2	111,4						



Outlet
ISO 6149-1



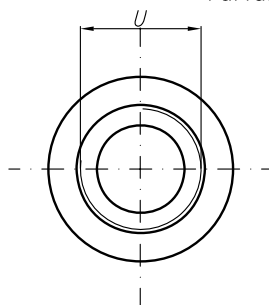
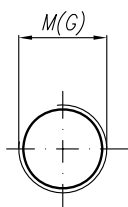
Type	Displacement	Flow		Pressure	max Speed	Dimension							
		at 1500 rpm	at max rpm			A	B	Inlet			Outlet		
	cm ³ /rev	l/min	l/min	P _{nom} bar	n rpm	mm	mm	E	F	d	M	G	U
20A(C)14X671HDJL	14							55		25	M8-6H	M27x2	
20A(C)15X671HDJL	15	21,60	43,20	250	3000								
20A(C)16X671HDJL	16	23,04	46,08	250	3000								
20A(C)17,3X671HDJD	17,3	24,91	49,82	230	3000								
20A(C)18,2X671HDJD	18,2	26,21	52,42	210	3000								
20A(C)19X671HDJL	19	27,36	54,72	200	3000								
20A(C)22X671HDJL	22	31,68	52,80	180	2500	57,8	118,4						
20A(C)25X671HDJL	25	36,00	60,00	160	2500								
20A(C)28X671HDJL	28	40,32	67,20	130	2500								
20A(C)32X671HDJL	32	46,08	61,44	120	2000								
20A(C)36X671HDJL	36	51,84	69,12	100	2000								



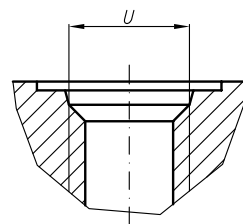
V
Variants for ports – M; G; U

Designations:

- ...X687 – Normal version (flanges);
- ...X687M – Metric threads;
- ...X687G – GAS threads;
- ...X687U – SAE UNF threads;



SAE J475 (ISO R725)



Type	Displacement	Flow		Pressure	max Speed	Dimension													
		at 1500 rpm	at max rpm			P _{nom}	n	A	B	Inlet				Outlet					
	cm ³ /rev	l/min	l/min	bar	rpm	mm	mm	E	F	d	M	G	U	E	F	d	M	G	U
20A(C)4,5X687...	4,5	6,14	14,33	250	3500	42,5	80	30,2	13,1	M6-6H	M20x1,5	G1/2	1 1/16"-12UNF	30,2	13,1	M6-6H	M16x1,5	G1/2	7/8"-14UNF
20A(C)6,3X687...	6,3	8,69	20,29	250	3500	44	83												
20A(C)8,2X687...	8,2	11,32	26,40	250	3500	45,5	85,9												
20A(C)10X687...	10	13,95	32,55	250	3500	Equivalent to 20A(C)...X006 and 20A(C)...X016		39,7	19	M8-6H									
20A(C)11X687...	11,3	15,76	36,78	250	3500														
20A(C)12X687...	12	16,92	39,48	250	3500														
20A(C)14X687...	14	19,95	46,55	250	3500														
20A(C)15X687...	15	21,60	36,00	250	2500														
20A(C)16X687...	16	23,04	38,40	250	2500														
20A(C)19X687...	19	27,36	45,60	200	2500														
20A(C)22X687...	22	31,68	42,24	180	2000								39,7	19	M8	M20x1,5			
20A(C)25X687...	25	36,00	48,00	160	2000														