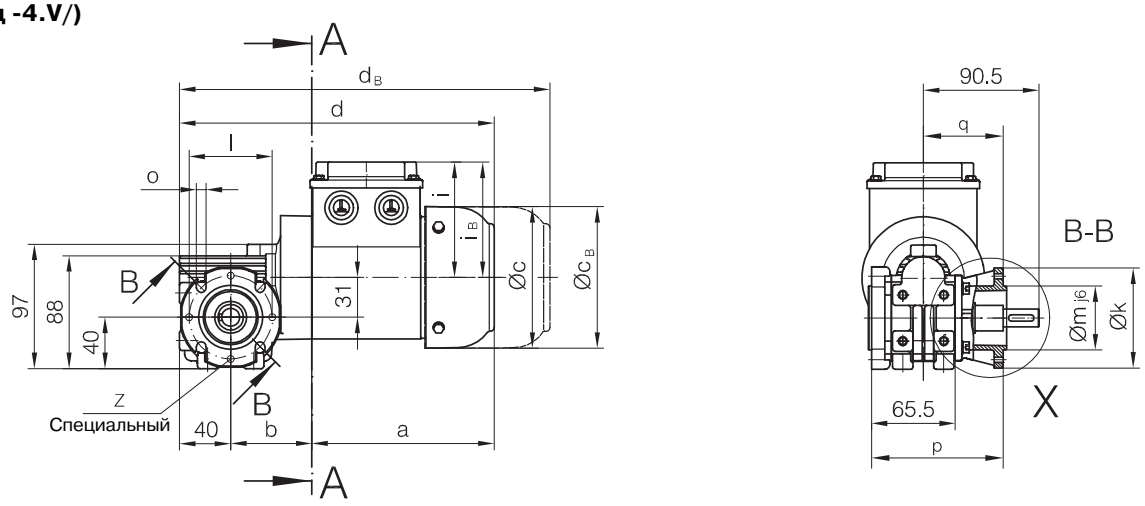
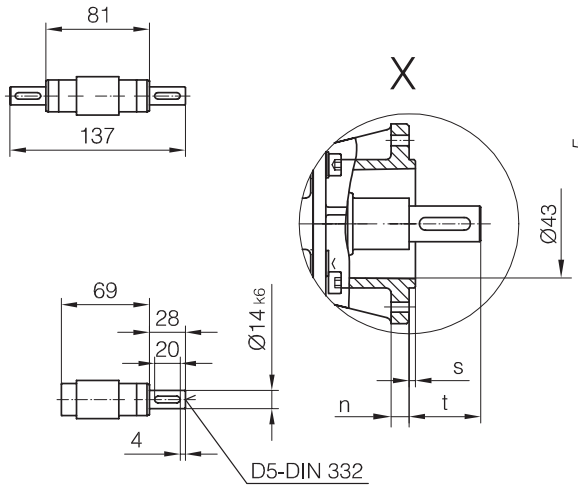
13.3 Чертежи червячных мотор-редукторов

Фланец со сквозными отверстиями

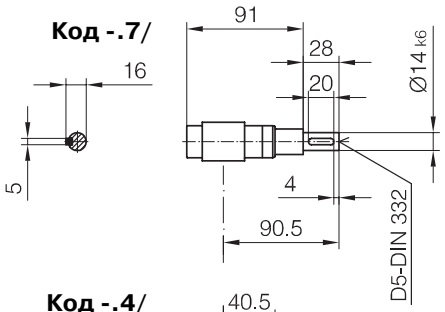
Код -3.V/
(Код -4.V/)



Код -.3/

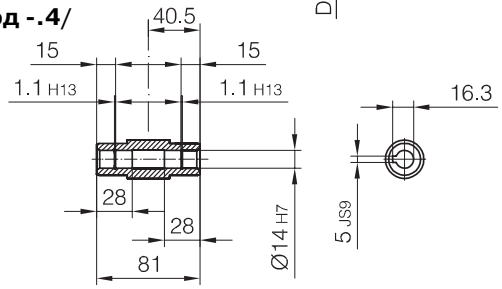


Код -.7/



Код -.1/

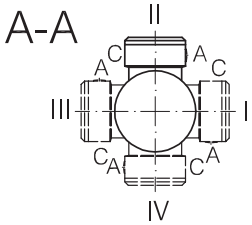
Код -.4/



Размеры фланца

BS02	k	l	m	n	o	p	q	s	t	z
Стандартный -3.V/	Ø80	Ø65	Ø50	7	5.5	103	62.5	2.5	28	-
Специальный -3.V/	Ø80	Ø65	Ø50	7	5.5	103	62.5	2.5	28	4xM5
Большой -4.V/	Ø110	Ø80	Ø60	8	6.6	103	62.5	2.5	28	-
Специальный -4.V/	Ø110	Ø80	Ø60	8	6.6	103	62.5	2.5	28	4xM6

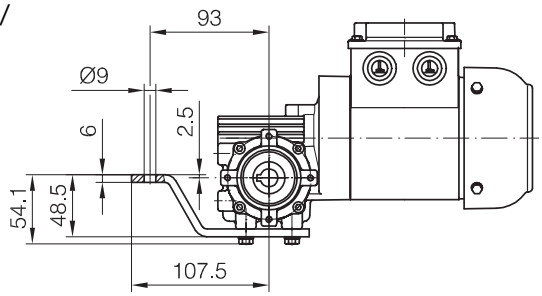
Стандартное положение

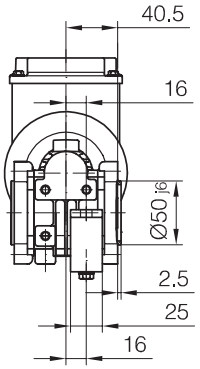


Тип	a	b	c	d	u	i	С тормозом								
							i_B	E003		E004					
								c_B	d_B	c_B	d_B				
BS02-../D04..	143	63.5	111	246	178	90	90	111	290						
BS02-../D05..	170	65.5	123	274	188	100	100	123	316						
BS02-../D06..	170	65.5	123	274	188	100	100	123	316						
BS02-../D07..	190	65.5	123	294	188	100	100	123	336	123	336				

Моментный рычаг

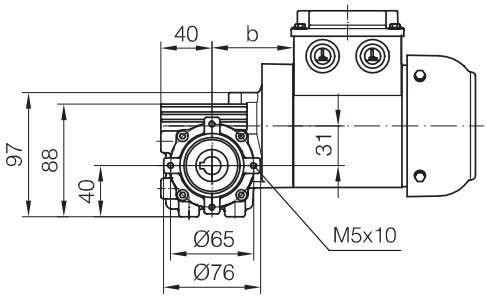
Код -5.V/

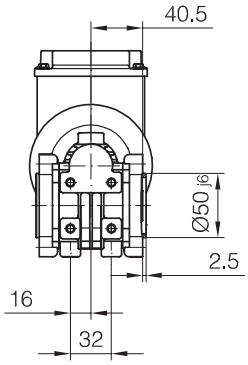




Фланец с резьбовыми отверстиями спереди

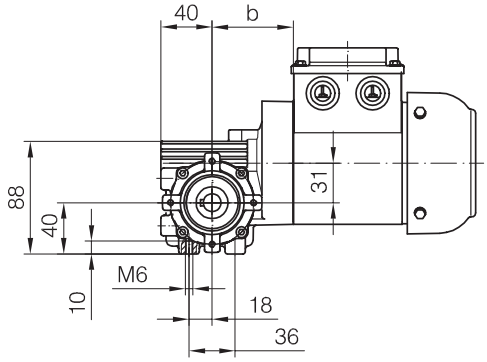
Код -7.V/

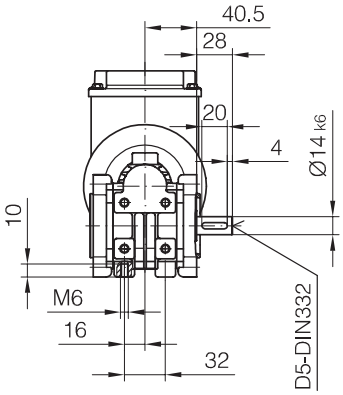




Резьбовые отверстия в корпусе снизу

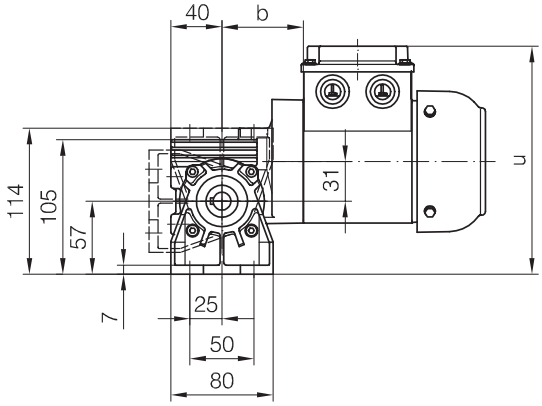
Код -6.U/

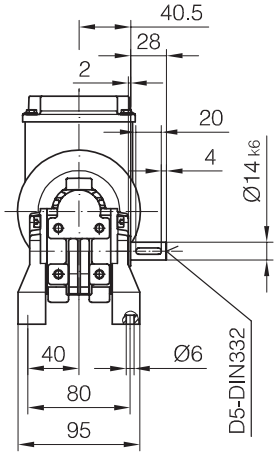




Лапа со сквозными отверстиями снизу

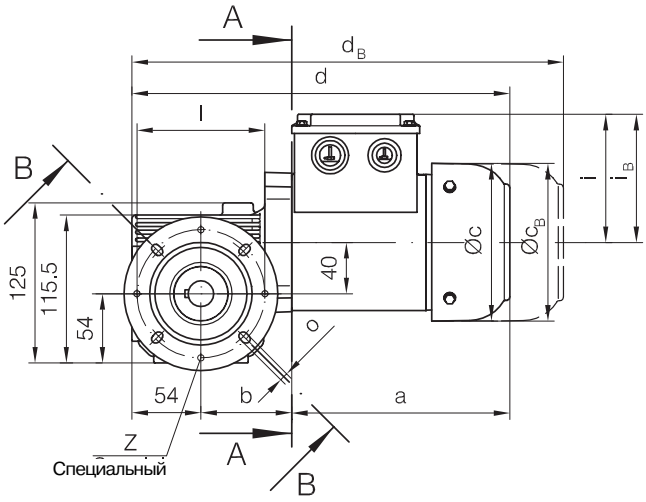
Код -1.U/

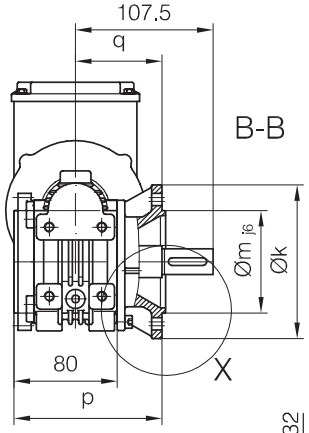




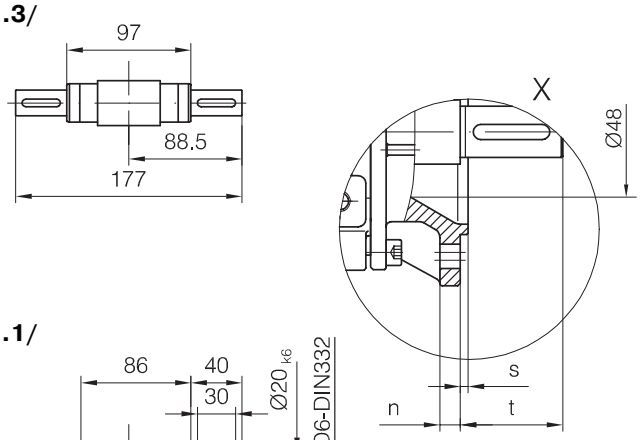
Фланец со сквозными отверстиями спереди

Код -3.V/

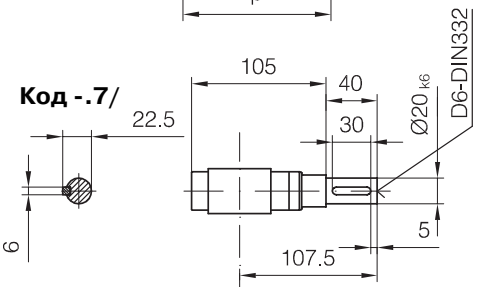




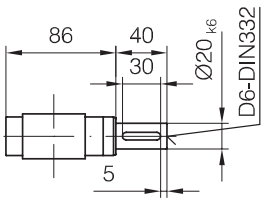
Код -.3/



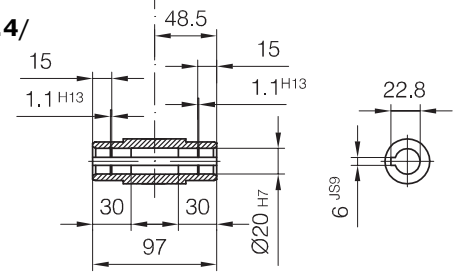
Код -.7/



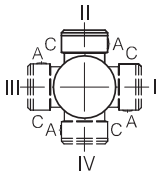
Код -.1/



Код -.4/



Стандартное положение



A-A

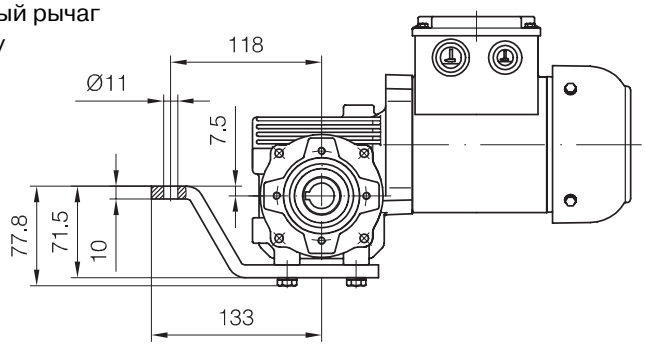
Размеры фланца

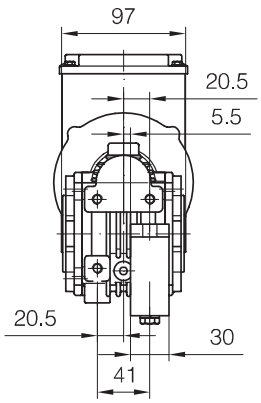
BS03	k	l	m	n	o	p	q	s	t	z
Стандартный -3.V/	Ø120	Ø100	Ø80	8	6.6	115	67.5	3	40	-
Специальный -3.V/	Ø120	Ø100	Ø80	8	6.6	115	67.5	3	40	4xM6

Тип	a	b	c	d	u	v	i	С тормозом								
								i_B	E003		E004		E008			
									c_B	d_B	c_B	d_B	c_B	d_B		
BS03-../D05..	170	71	123	296	213	Ø70	100	100	123	338						
BS03-../D06..	170	71	123	296	213	Ø70	100	100	123	338						
BS03-../D07..	190	71	123	316	213	Ø70	100	100	123	358	123	358				
BS03-../D08..	200	115	156	369	228	-	115	115					156	444		

Моментный рычаг

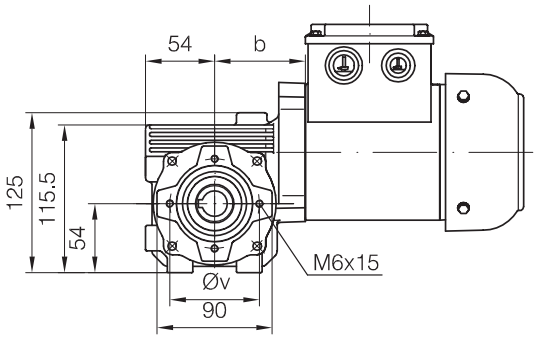
Код -5.V/

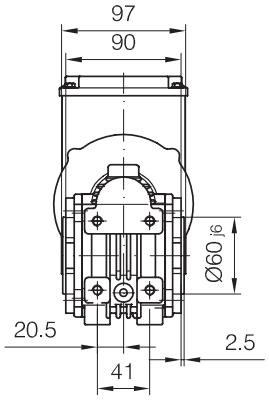




Фланец с резьбовыми отверстиями спереди

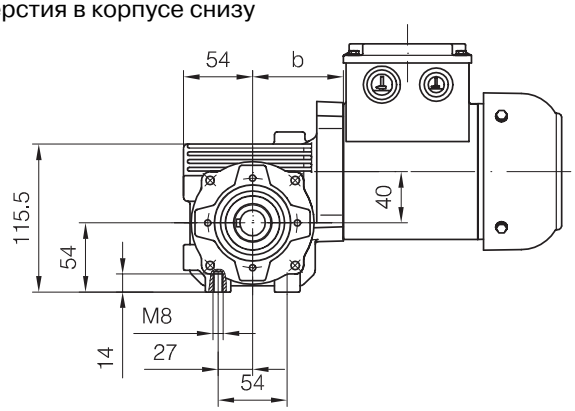
Код -7.V/

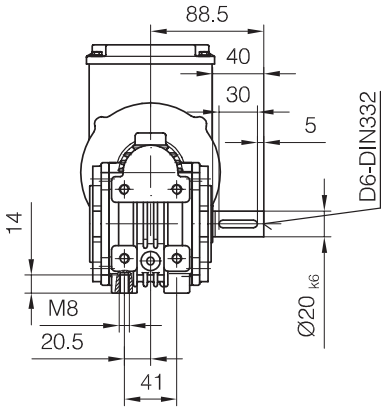




Резьбовые отверстия в корпусе снизу

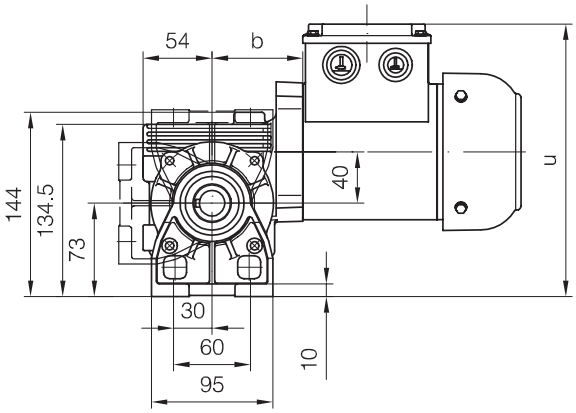
Код -6.U/

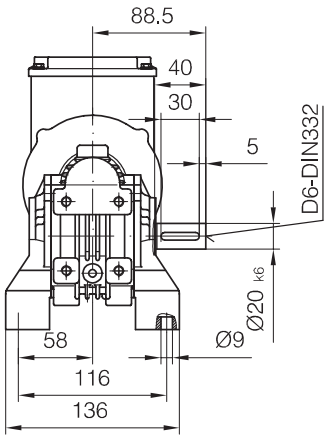




Лапа со сквозными отверстиями снизу

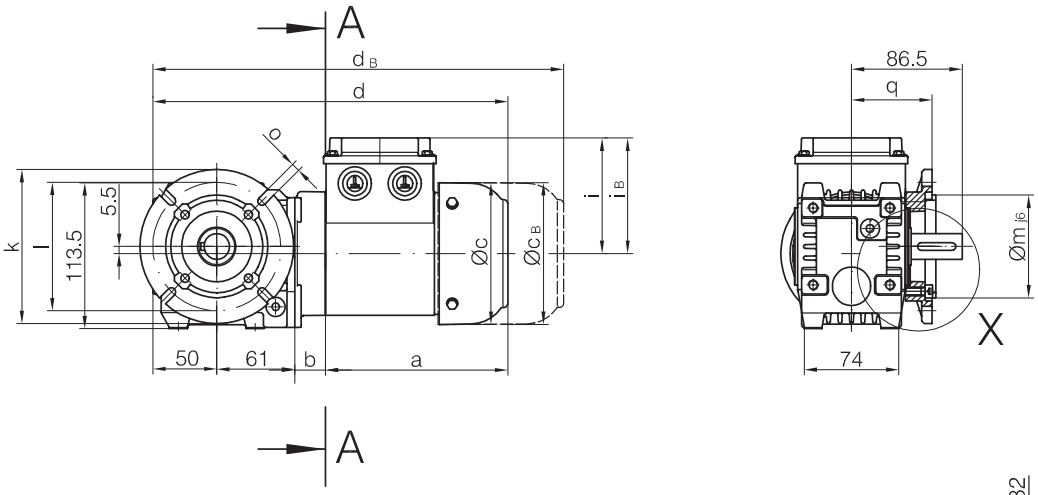
Код -1.U/



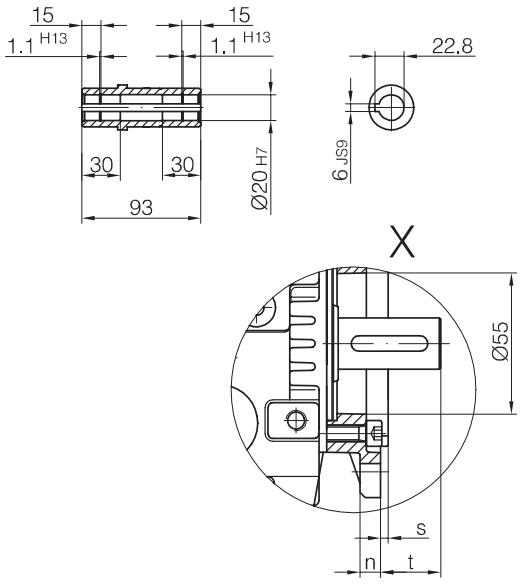


Фланец со сквозными отверстиями спереди

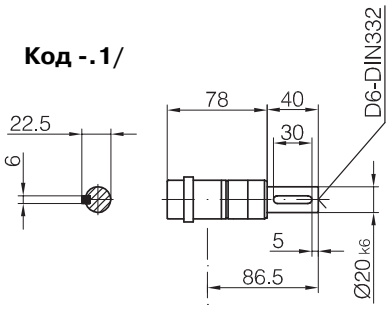
Код -3.V/



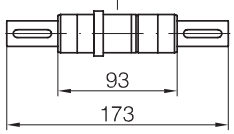
Код -.4/



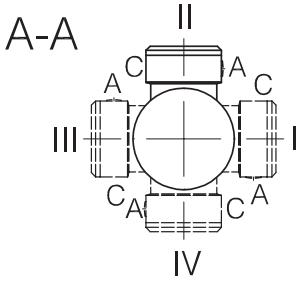
Код -.1/



Код -.3/



Стандартное положение



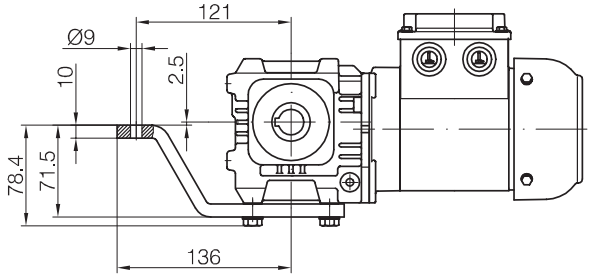
Размеры фланца

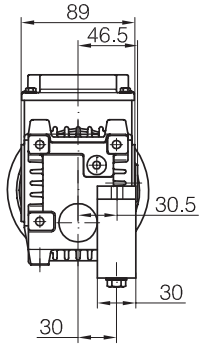
BS04	k	l	m	n	o	p	q	s	t
Стандартный -3.V/	Ø120	Ø100	Ø80	8	6.6	110.5	63	3	23.5

Тип	a	b	c	d	i	i_B	С тормозом											
							E003		E004									
							c_B	d_B	c_B	d_B								
BS04-../D04..	143	24	111	278	90	90	111	321										
BS04-../D05..	170	26	123	308	100	100	123	350										
BS04-../D06..	170	26	123	308	100	100	123	350										
BS04-../D07..	190	26	123	328	100	100	123	370	123	370								

Моментный рычаг

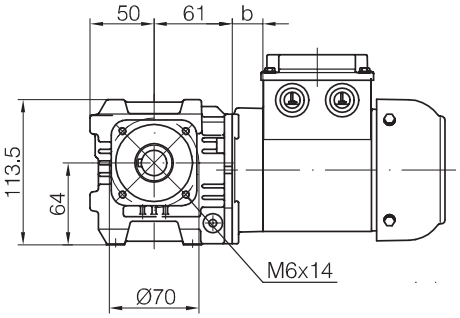
Код -5.V/

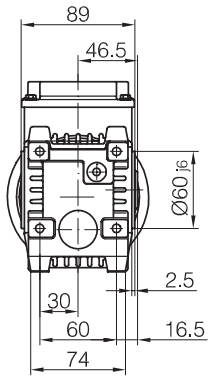




Фланец с резьбовыми отверстиями спереди

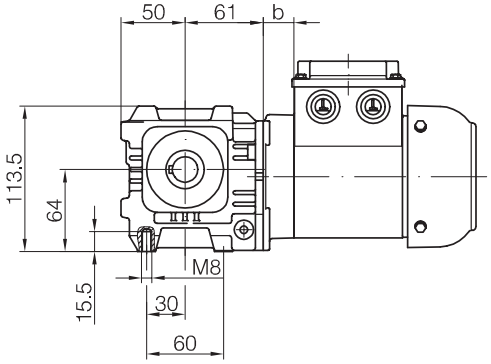
Код -7.V/

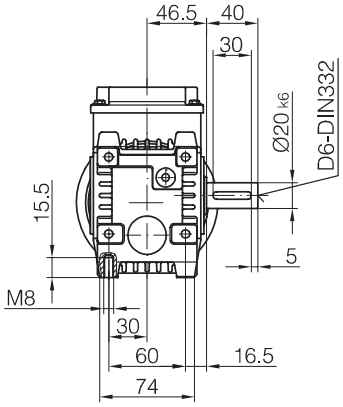




Резьбовые отверстия в корпусе снизу

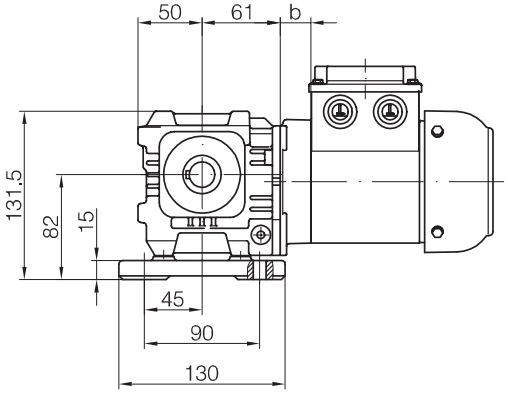
Код -6.U/

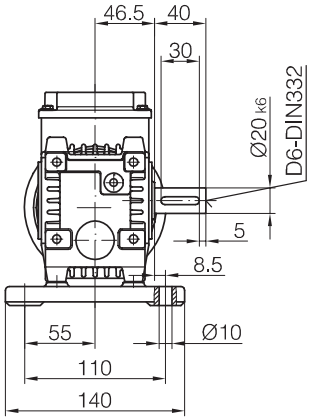




Лапа со сквозными отверстиями снизу

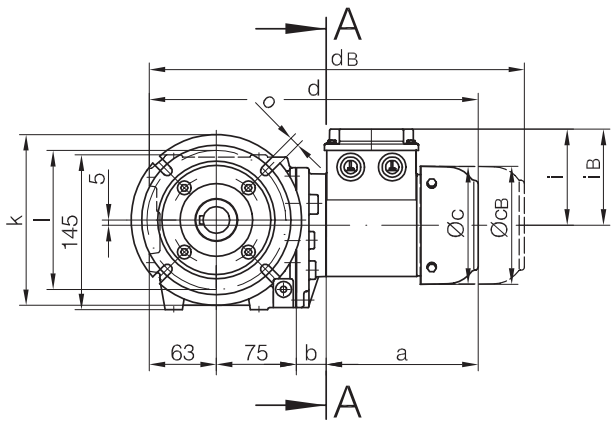
Код -1.U/

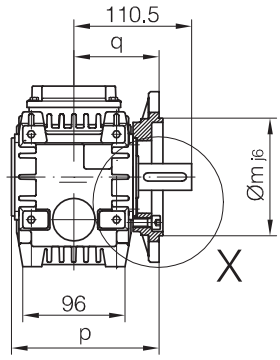




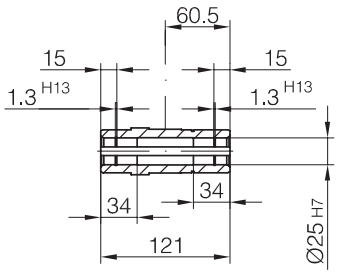
Фланец со сквозными отверстиями спереди

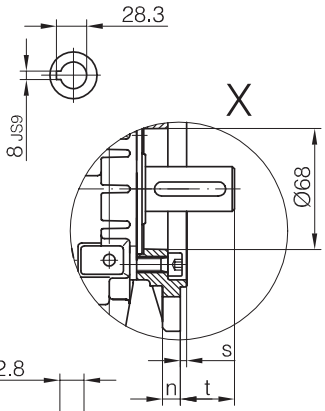
**Код -3.V/
(Код -4.V/)**



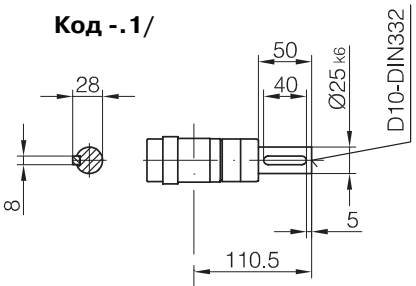


Код -.4/

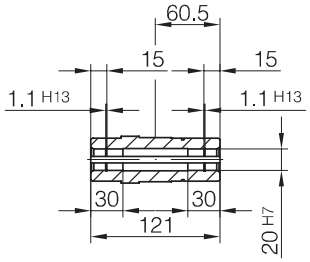


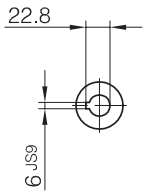


Код -.1/

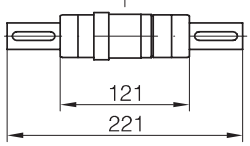


Код -.4/K20

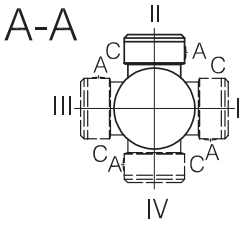




Код -.3/



Стандартное положение



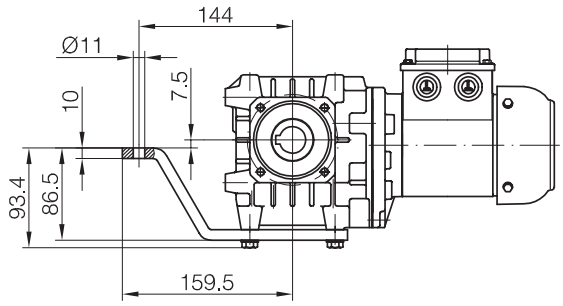
Размеры фланца

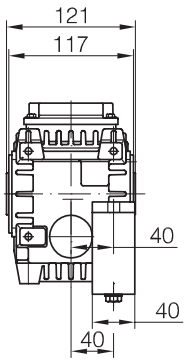
BS06	k	l	m	n	o	p	q	s	t
Стандартный -3.V/	Ø140	Ø115	Ø95	10	9	138.5	80	3	30.5
Большой -4.V/	Ø160	Ø130	Ø110	10	9	138.5	80	3.5	30.5

Тип	a	b	c	d	i	С тормозом											
						i_B	E003		E004		E008							
							c_B	d_B	c_B	d_B	c_B	d_B						
BS06-../D04..	143	28	111	309	90	90	111	352										
BS06-../D05..	170	30	123	339	100	100	123	381										
BS06-../D06..	170	30	123	339	100	100	123	381										
BS06-../D07..	190	30	123	359	100	100	123	401	123	401								
BS06-../D08..	200	74	156	412	115	115					156	487						

Моментный рычаг спереди

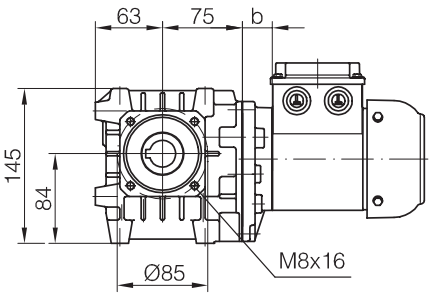
Код -5.V/

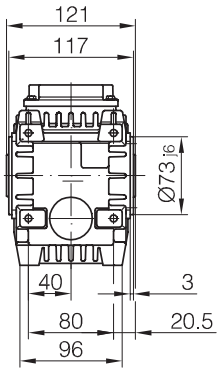




Фланец с резьбовыми отверстиями спереди

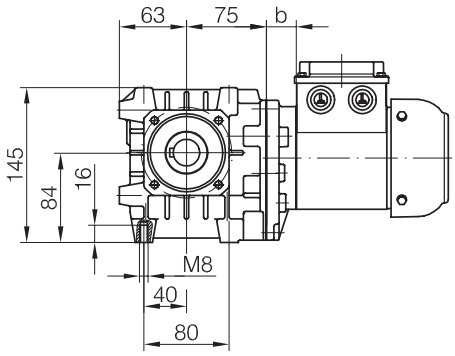
Код -7.V/

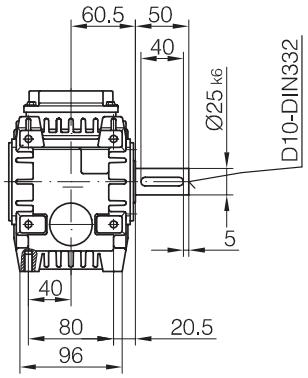




Резьбовые отверстия в корпусе снизу

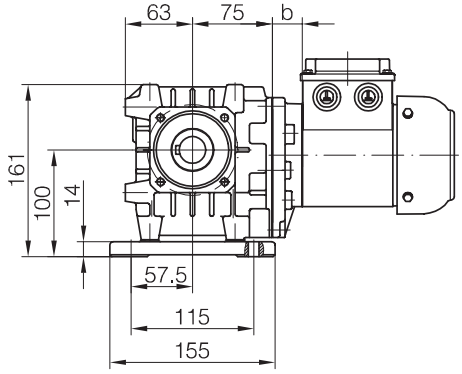
Код -6.U/

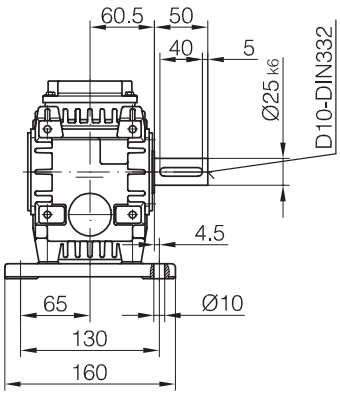




Лапа со сквозными отверстиями снизу

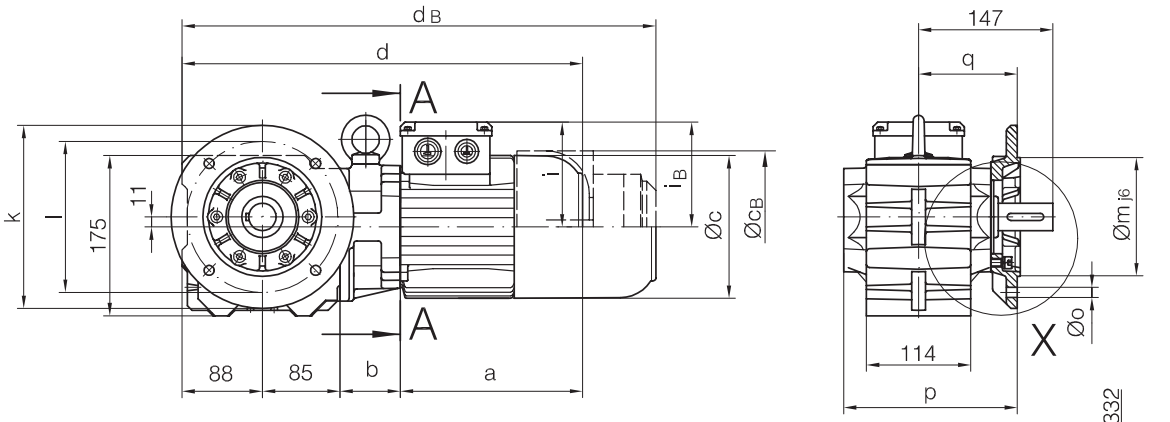
Код -1.U/



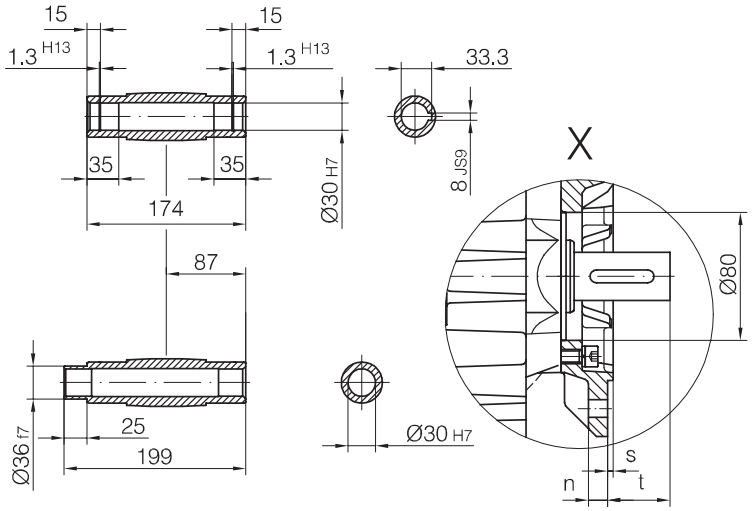


Фланец со сквозными отверстиями спереди

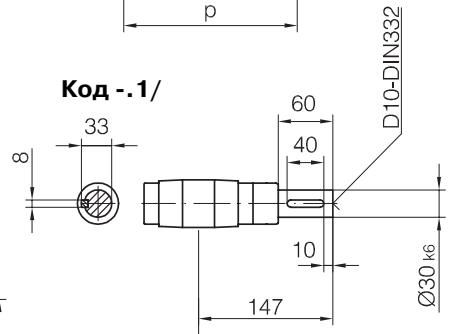
Код -3.V/
(Код -2.V/)



Код -.4/

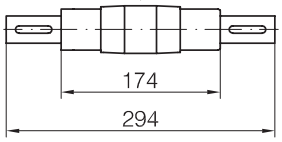


Код -.1/

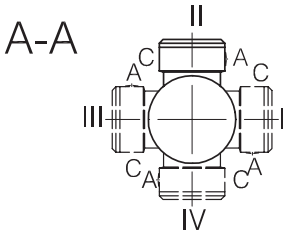


Код -.5/

Код -.3/



Стандартное положение



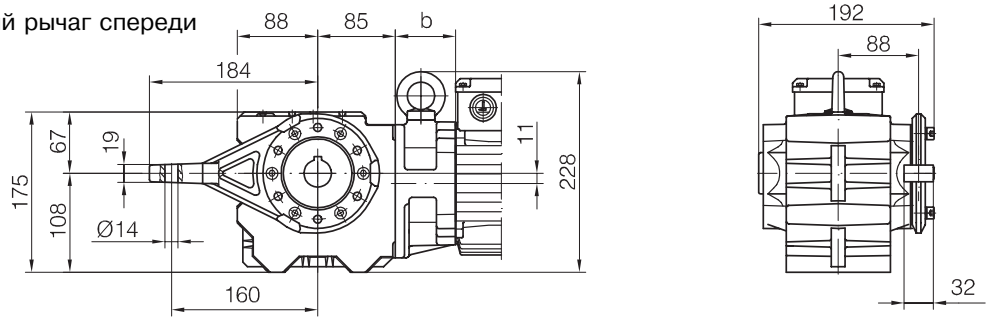
Размеры фланца

BS10Z		k	l	m	n	o	p	q	s	t
Стандартный	-3.V/	Ø200	Ø165	Ø130	12	Ø11	190	108	3.5	39
Малый	-2.V/	Ø160	Ø130	Ø110	10	Ø9	183	101	3.5	46

Тип	a	b	c	d	i	С тормозом												
						i_B	E003		E004		E008		Z008		Z015			
							c_B	d_B	c_B	d_B	c_B	d_B	c_B	d_B	c_B	d_B		
BS10Z-../D04..	143	86	111	402	90	90	111	445										
BS10-../D05..	170	62	123	406	100	100	123	448										
BS10Z-../D05..	170	88	123	432	100	100	123	474										
BS10-../D06..	170	62	123	406	100	100	123	448										
BS10Z-../D06..	170	88	123	432	100	100	123	474										
BS10-../D07..	190	62	123	426	100	100	123	468	123	468								
BS10Z-../D07..	190	88	123	452	100	100	123	494	123	494								
BS10-../D08..	200	66	156	439	115	115					156	514						
BS10Z-../D08..	200	132	156	505	115	115					156	580						
BS10-../D09..	251	80.5	176	504	124	124					192	584	192	598	192	604		

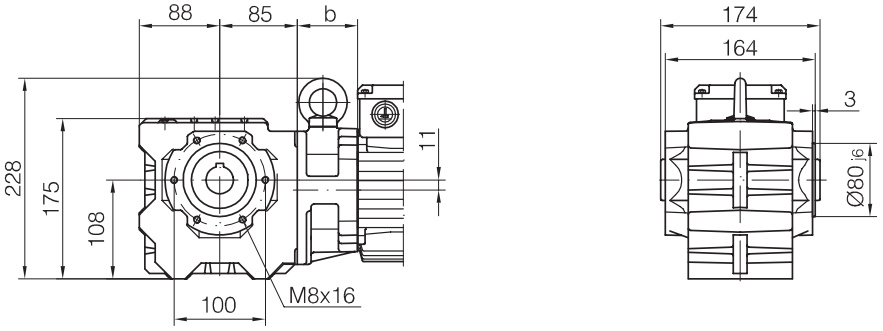
Моментный рычаг спереди

Код -5.V/



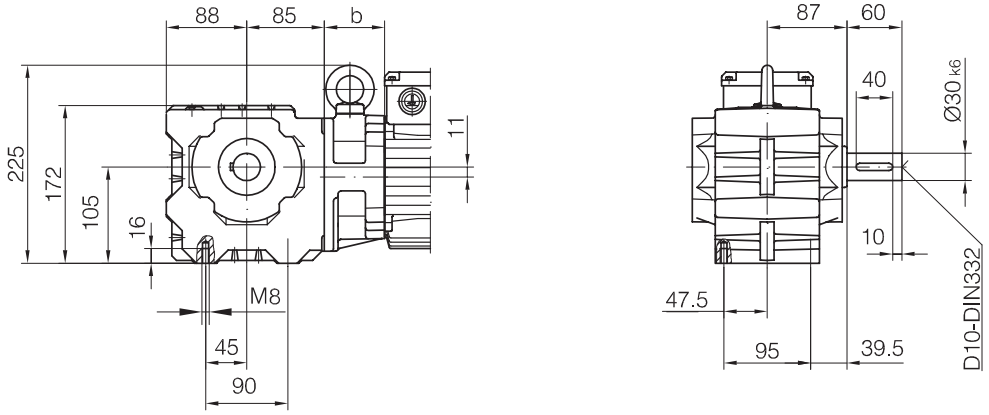
Фланец с резьбовыми отверстиями спереди

Код -7.V/



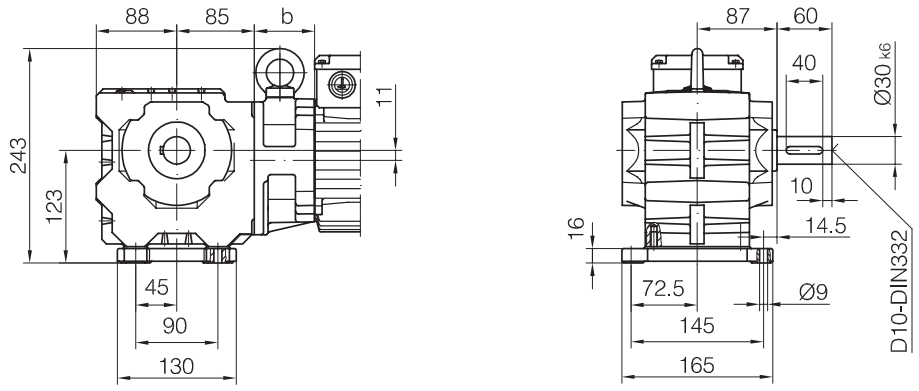
Резьбовые отверстия в корпусе снизу

Код -6.U/



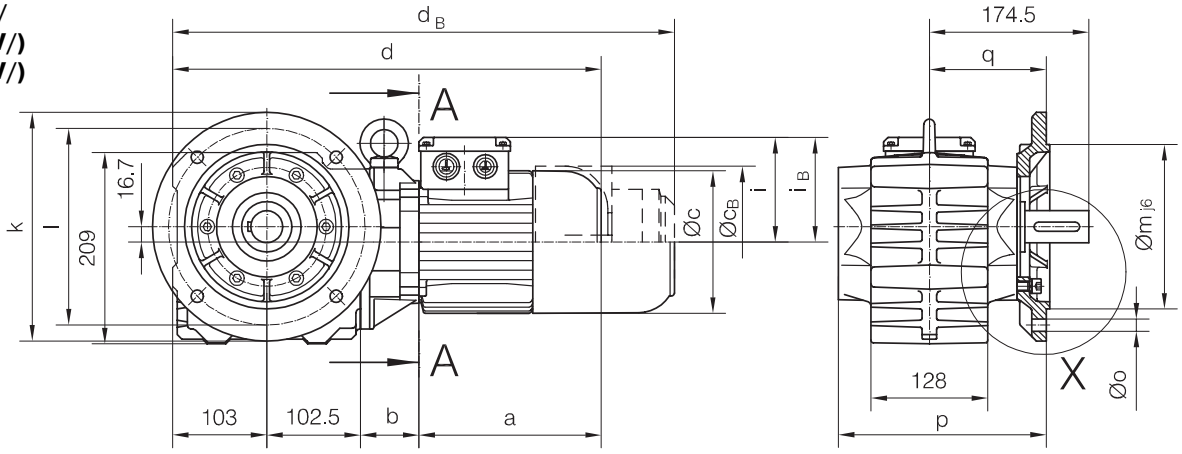
Лапа со сквозными отверстиями снизу

Код -1.U/

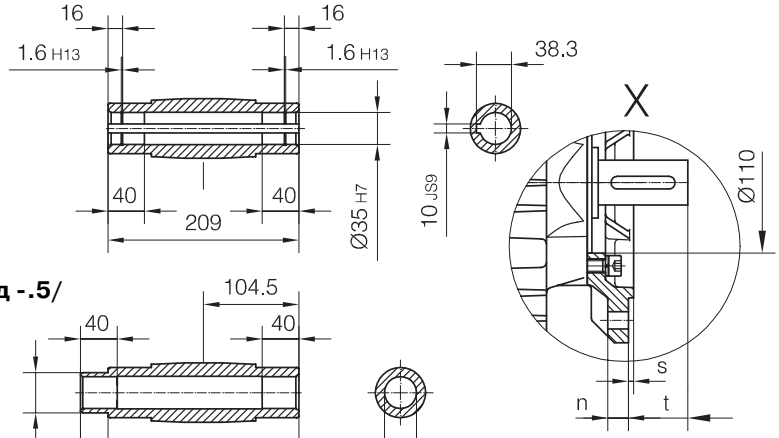


Фланец со сквозными отверстиями спереди

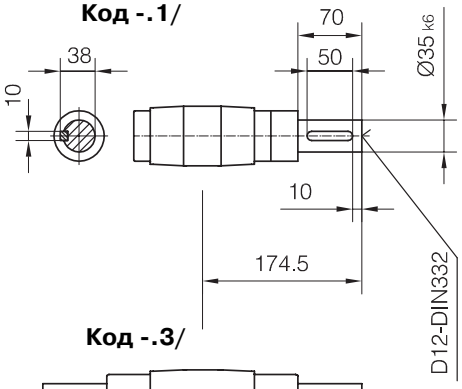
Код -3.V/
(Код -4.V/)
(Код -2.V/)



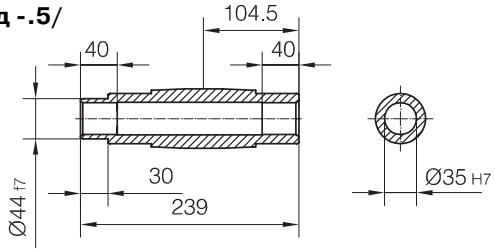
Код -.4/



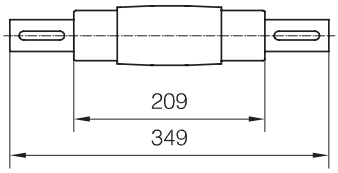
Код -.1/



Код -.5/



Код -.3/

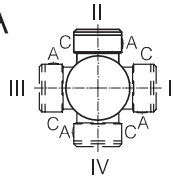


Размеры фланца

BS20Z		k	l	m	n	o	p	q	s	t
Стандартный	-3.V/	Ø250	Ø215	Ø180	16	Ø13.5	227.5	128	4	46.5
Малый	-2.V/	Ø200	Ø165	Ø130	12	Ø11	224.5	125	3.5	49.5
Большой	-4.V/	Ø300	Ø265	Ø230	20	Ø13.5	233.5	134	4	40.5

A-A

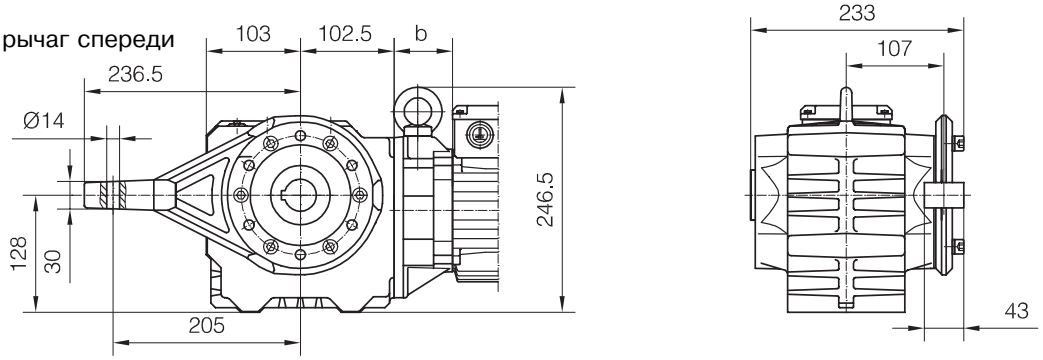
Стандартное положение



Тип	a	b	c	d	i	i_B	С тормозом											
							E003		E004		E008		Z008		Z015			
							c_B	d_B	c_B	d_B	c_B	d_B	c_B	d_B	c_B	d_B		
BS20Z-../D04..	143	100	111	448	90	90	111	492										
BS20-../D05..	170	60	123	436	100	100	123	478										
BS20Z-../D05..	170	102	123	478	100	100	123	520										
BS20-../D06..	170	60	123	436	100	100	123	478										
BS20Z-../D06..	170	102	123	478	100	100	123	520										
BS20-../D07..	190	60	123	456	100	100	123	498	123	498								
BS20Z-../D07..	190	102	123	498	100	100	123	540	123	540								
BS20-../D08..	200	64	156	469	115	115					156	556						
BS20Z-../D08..	200	146	156	552	115	115					156	626						
BS20-../D09..	251	78.5	176	535	124	124					192	614	192	628	192	634		

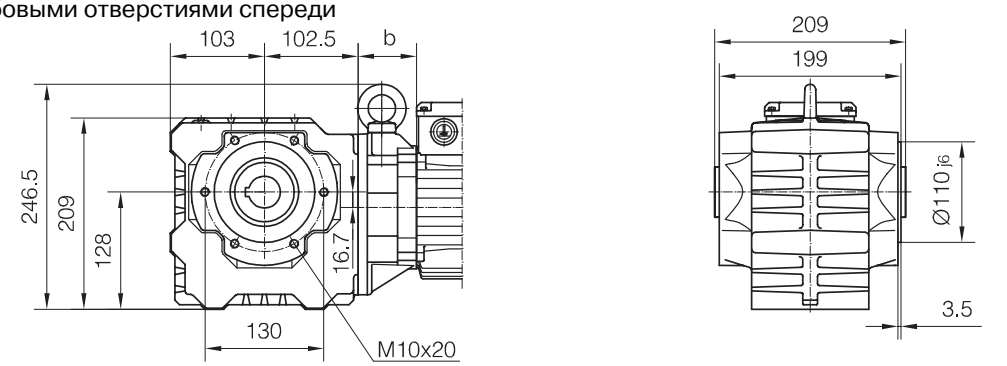
Моментный рычаг спереди

Код -5.V/



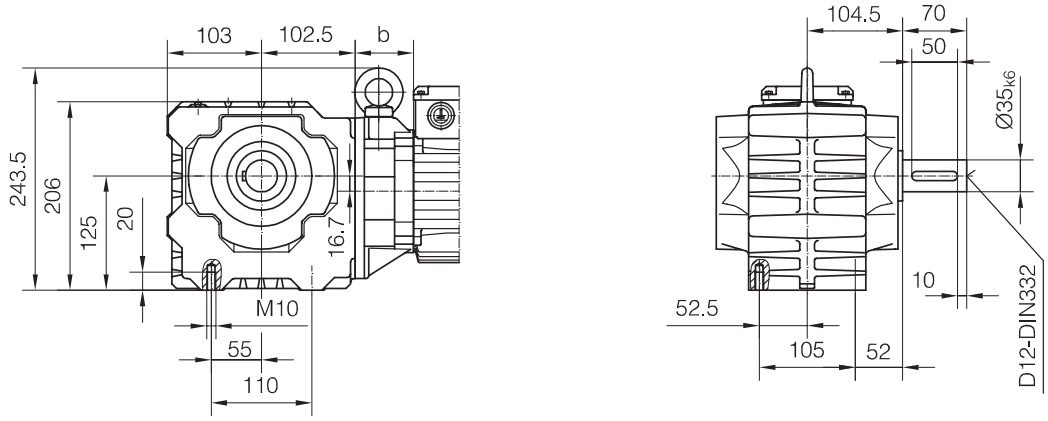
Фланец с резьбовыми отверстиями спереди

Код -7.V/



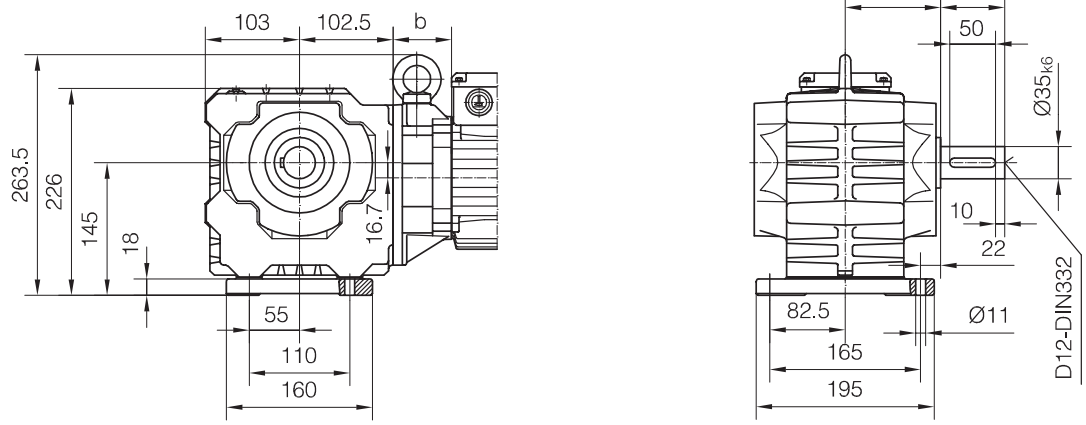
Резьбовые отверстия в корпусе снизу

Код -6.U/



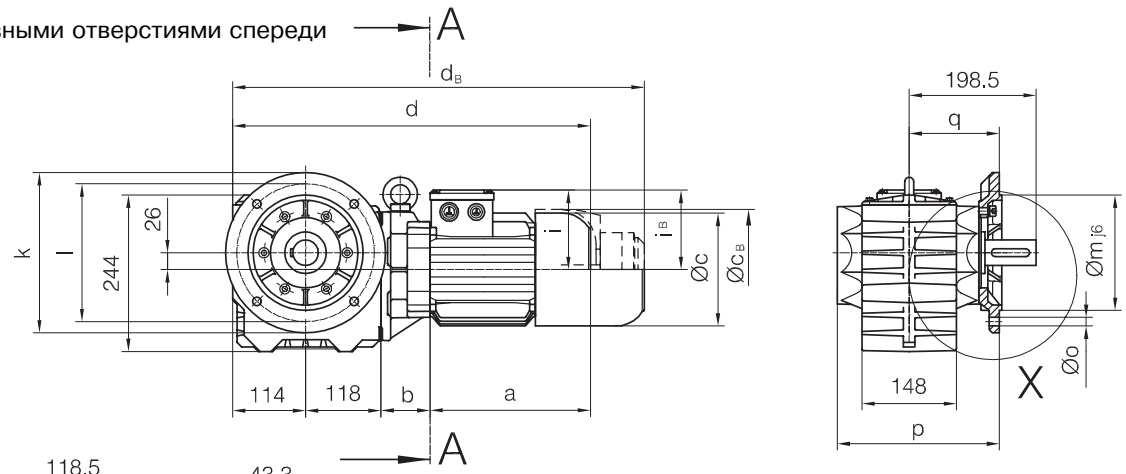
Лапа со сквозными отверстиями снизу

Код -1.U/

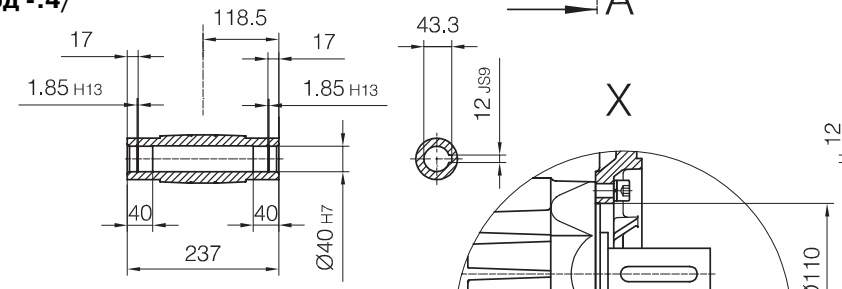


Фланец со сквозными отверстиями спереди

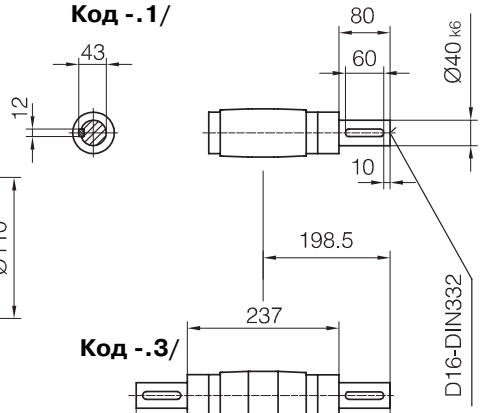
Код -3.V/ (Код -4.V/)



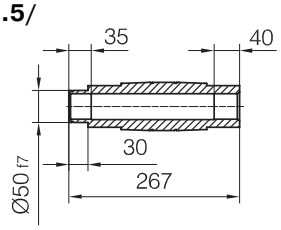
Код -.4/

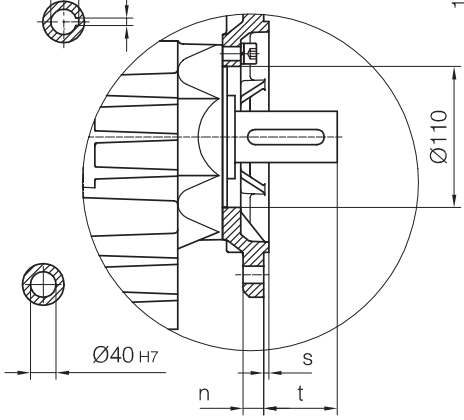


Код -.1/

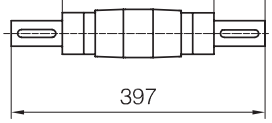


Код -.5/



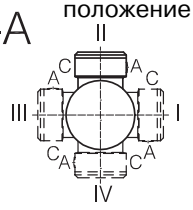


Код -.3/



Стандартное положение

A-A



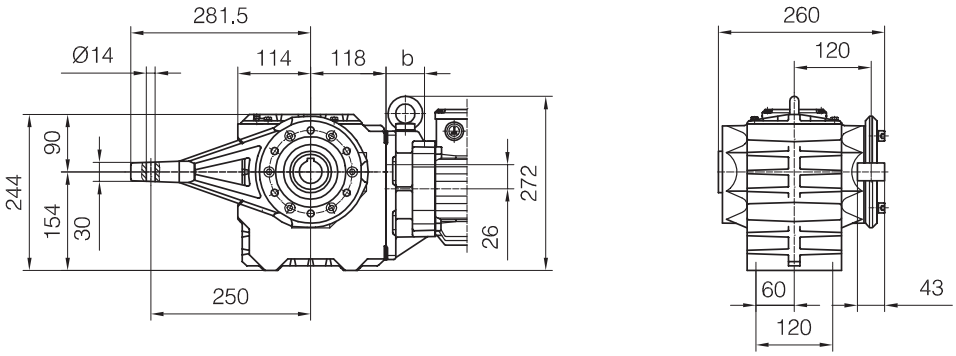
Размеры фланца

BS30Z		k	l	m	n	o	p	q	s	t
Стандартный	-3.V/	Ø250	Ø215	Ø180	16	Ø13.5	253.5	141	4	57.5
Большой	-4.V/	Ø300	Ø265	Ø230	20	Ø13.5	259.5	147	4	51.5

Тип	a	b	c	d	i	i_B	С тормозом											
							E003		E004		E008		Z008		Z015			
							c_B	d_B	c_B	d_B	c_B	d_B	c_B	d_B	c_B	d_B		
BS30-../D05..	170	58	123	461	100	100	123	503										
BS30Z-../D05..	170	133.5	123	536	100	100	123	578										
BS30-../D06..	170	58	123	461	100	100	123	503										
BS30Z-../D06..	170	133.5	123	536	100	100	123	578										
BS30-../D07..	190	58	123	481	100	100	123	523	123	523								
BS30Z-../D07..	190	133.5	123	556	100	100	123	598	123	598								
BS30-../D08..	200	62	156	494	115	115					156	568						
BS30Z-../D08..	200	138	156	570	115	115					156	545						
BS30-../D09..	251	77	176	560	124	124					192	639	192	653	192	659		
BS30Z-../D09..	251	152	176	635	124	124					192	714	192	728	192	734		

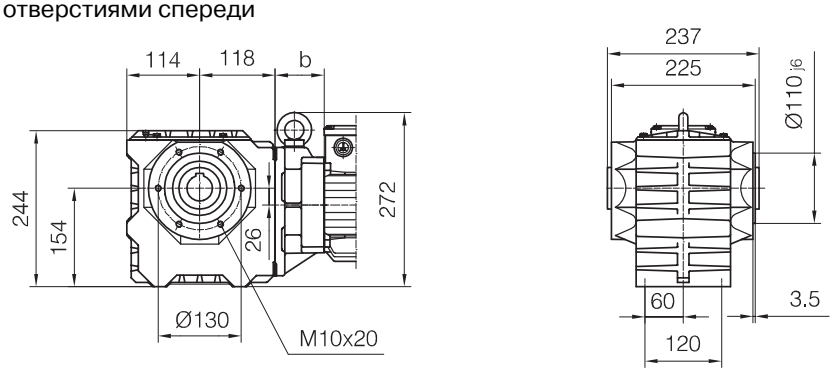
Моментный рычаг спереди

Код -5.V/



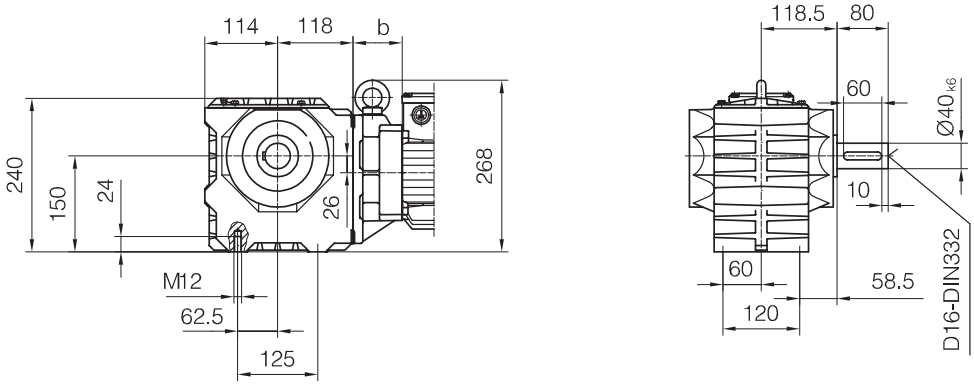
Фланец с резьбовыми отверстиями спереди

Код -7.V/



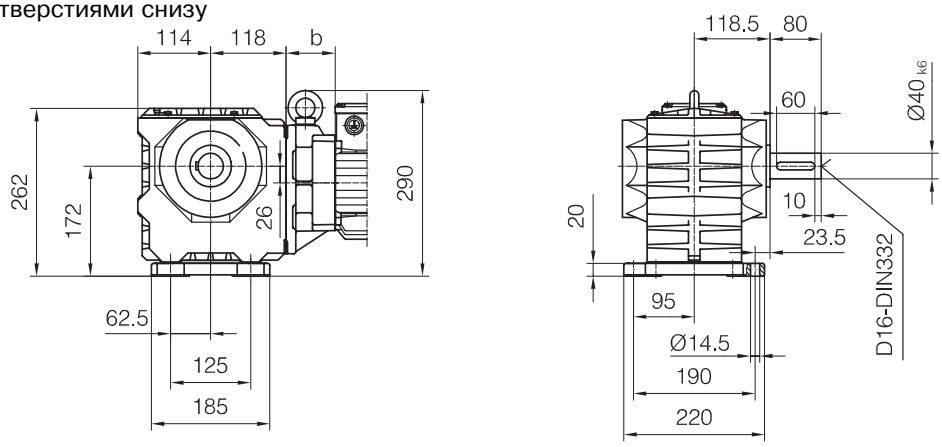
Резьбовые отверстия в корпусе снизу

Код -6.U/



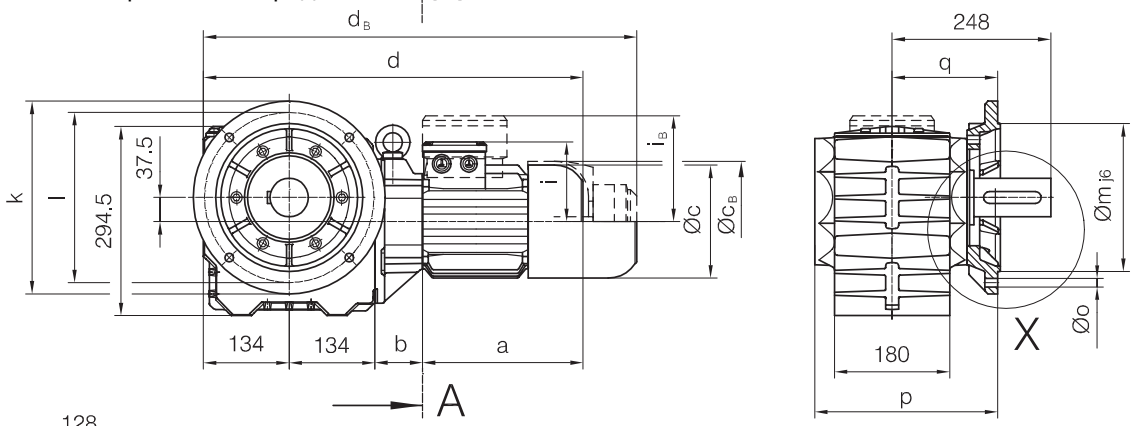
Лапа со сквозными отверстиями снизу

Код -1.U/

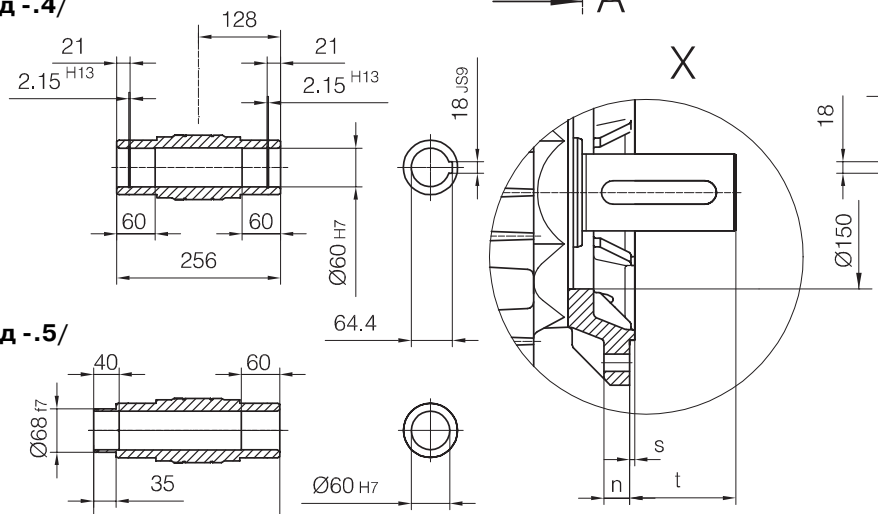


Фланец со сквозными отверстиями спереди → A

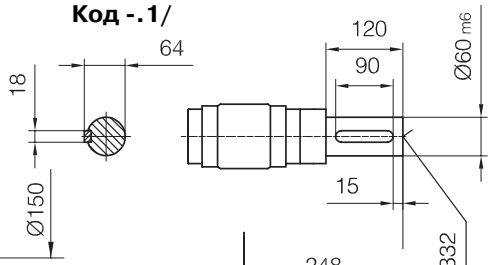
Код -3.V/



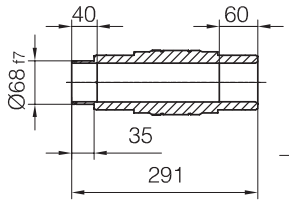
Код -.4/



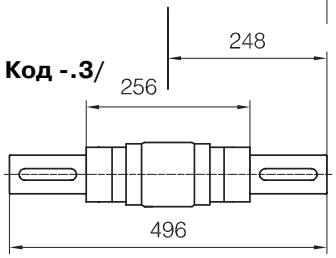
Код -.1/



Код -.5/

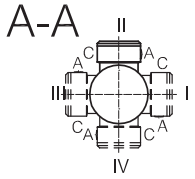


Код -.3/



Стандартное положение

A-A



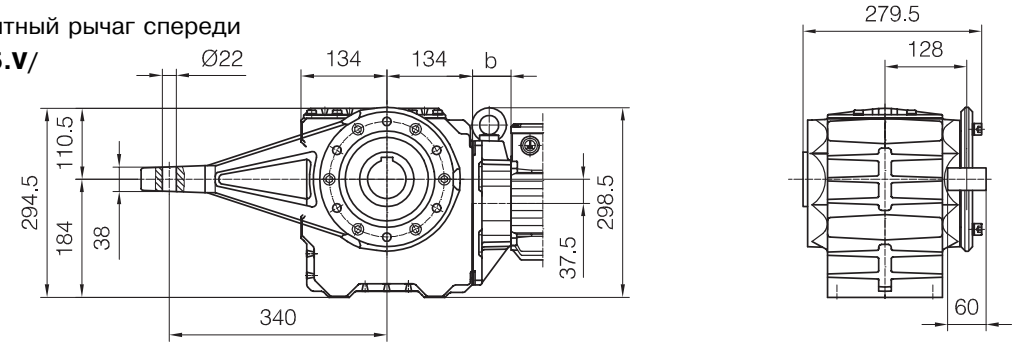
Размеры фланца

BS40Z	k	l	m	n	o	p	q	s	t
Стандартный -3.V/	Ø300	Ø265	Ø230	20	Ø13.5	286	165	4	83

Тип	a	b	c	d	i	i_B	С тормозом											
							E003		E004		E008		Z008		Z015		E075	
							c_B	d_B	c_B	d_B	c_B	d_B	c_B	d_B	c_B	d_B	c_B	d_B
BS40Z-../D05..	170	138.5	123	577	100	100	123	619										
BS40Z-../D06..	170	138.5	123	577	100	100	123	619										
BS40Z-../D07..	190	138.5	123	597	100	100	123	639	123	639								
BS40-../D08..	200	60	156	528	115	115					156	603						
BS40Z-../D08..	200	143.5	156	610	115	115					156	686						
BS40-../D09..	251	74.5	176	593	124	124					192	673	192	603	192	693		
BS40Z-../D09..	251	157	176	676	124	124					192	755	192	769	192	775		
BS40-../D11..	319	81	218	668	181	185									231	771	231	801

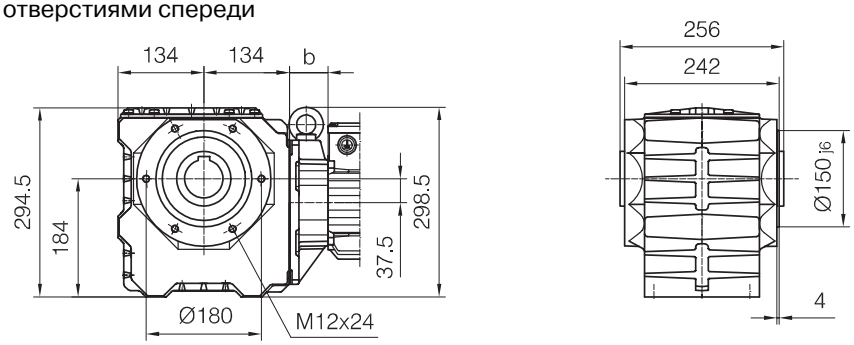
Моментный рычаг спереди

Код -5.V/



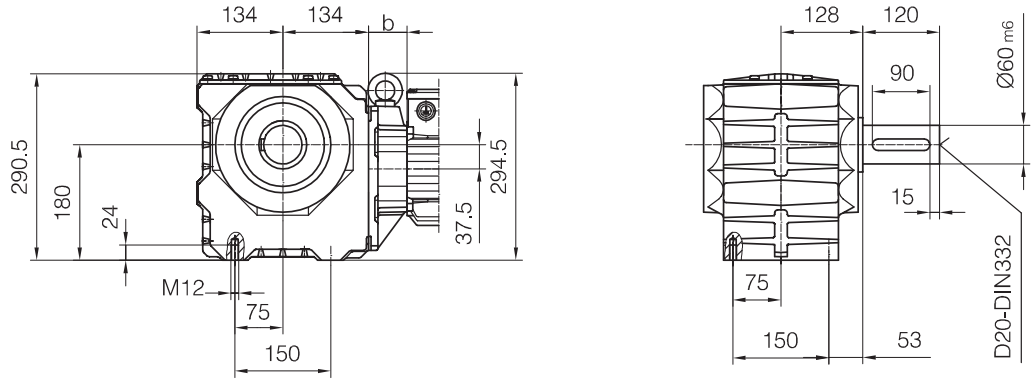
Фланец с резьбовыми отверстиями спереди

Код -7.V/



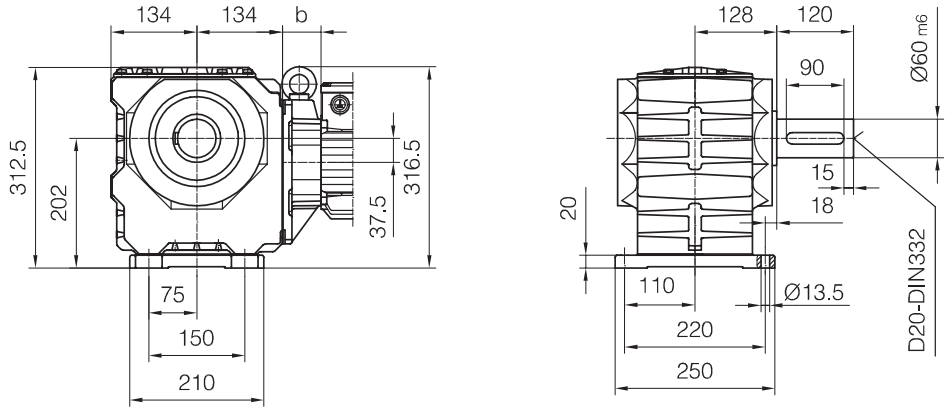
Резьбовые отверстия в корпусе снизу

Код -6.U/



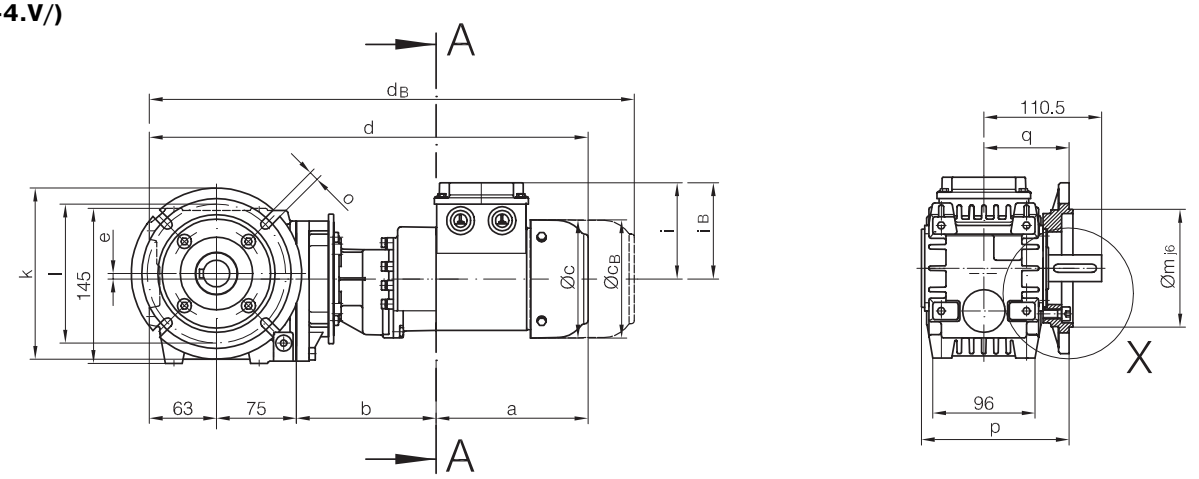
Лапа со сквозными отверстиями снизу

Код -1.U/

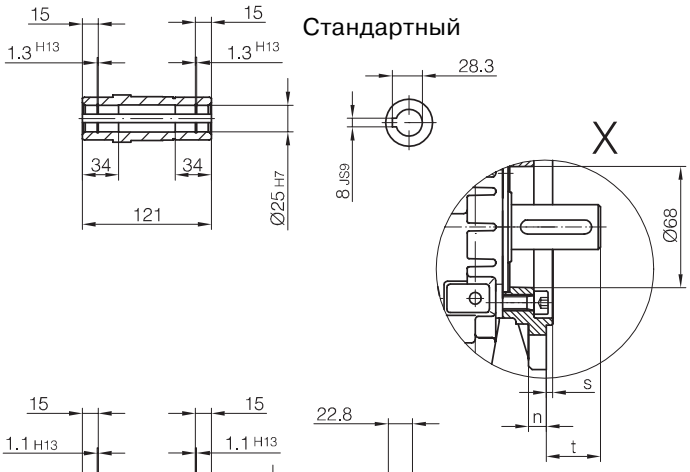


Фланец со сквозными отверстиями

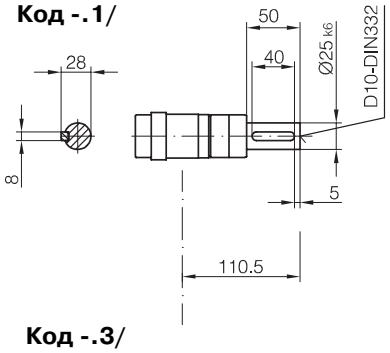
Код -3.V/
(Код -4.V/)



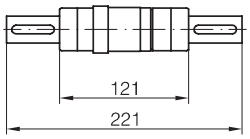
Код -.4/



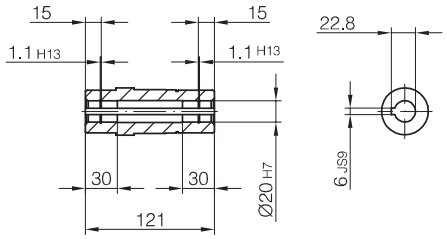
Код -.1/



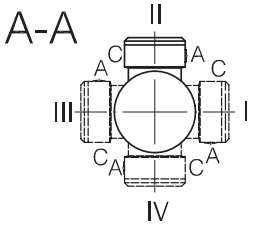
Код -.3/



Код -.4/K20



Стандартное положение



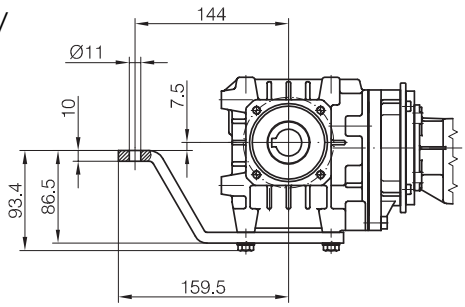
Размеры фланца

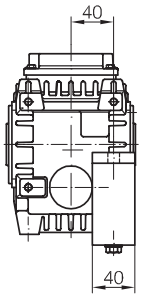
BS06	k	l	m	n	o	p	q	s	t
Стандартный -3.V/	Ø140	Ø115	Ø95	10	9	138.5	80	3	30.5
Большой -4.V/	Ø160	Ø130	Ø110	10	9	138.5	80	3.5	30.5

Тип	a	b	c	d	e	i	С тормозом									
							i_B	E003								
								c_B	d_B							
BS06G04-../D04..	143	131	111	412	5	90	90	111	455							

Моментный рычаг спереди

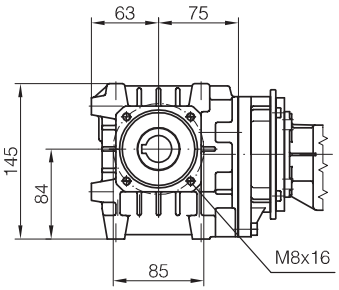
Код -5.V/

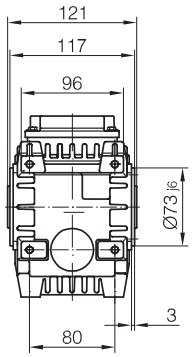




Фланец с резьбовыми отверстиями спереди

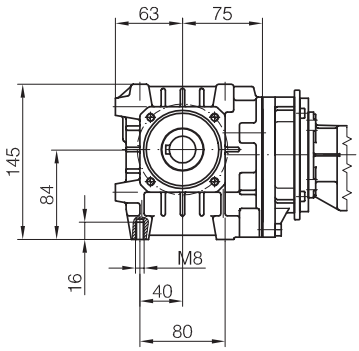
Код -7.V/

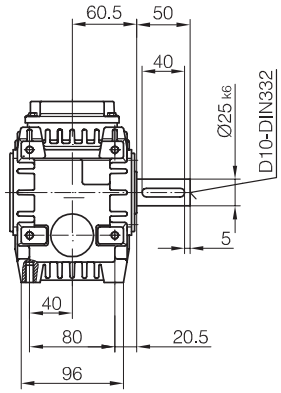




Резьбовые отверстия в корпусе снизу

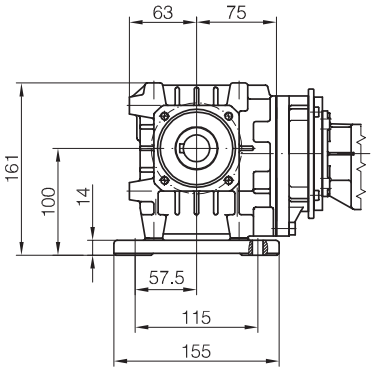
Код -6.U/

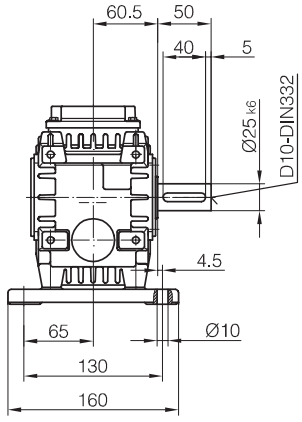




Лапа со сквозными отверстиями

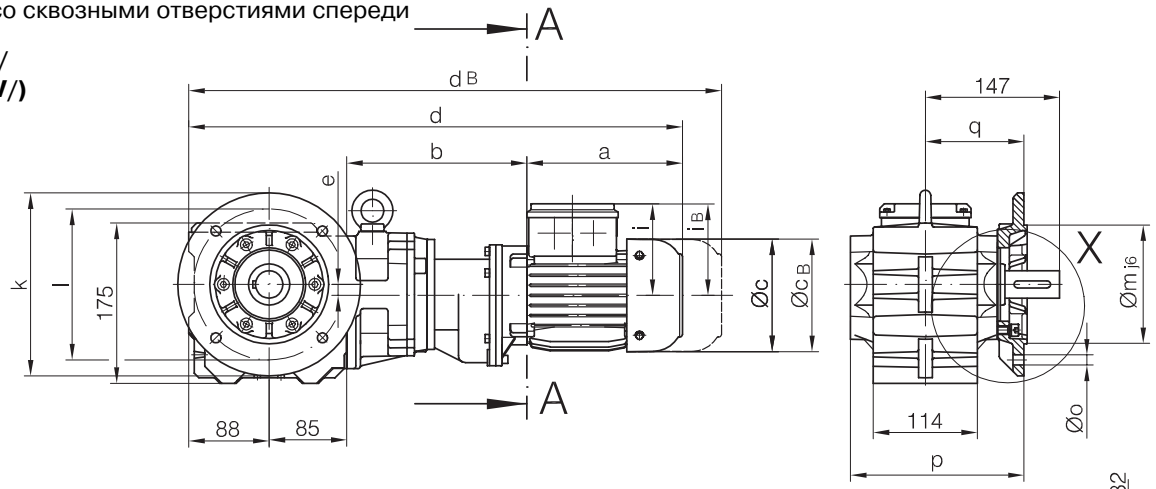
Код -1.U/



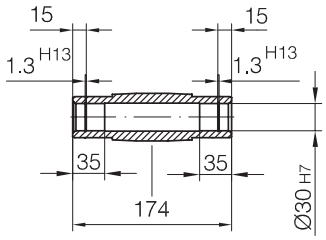


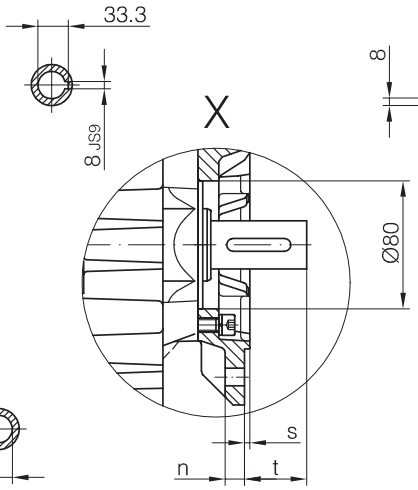
Фланец со сквозными отверстиями спереди

Код -3.V/ (Код -2.V/)

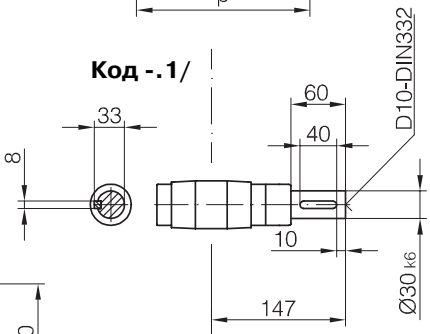


Код -.4/

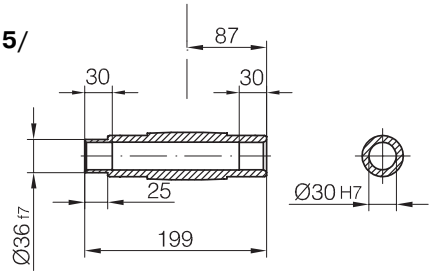




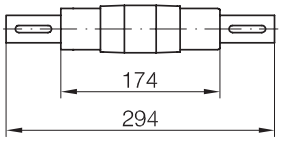
Код -.1/



Код -.5/

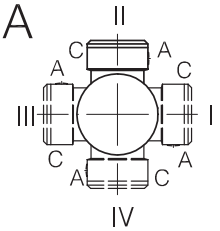


Код -.3/



Стандартное положение

A-A



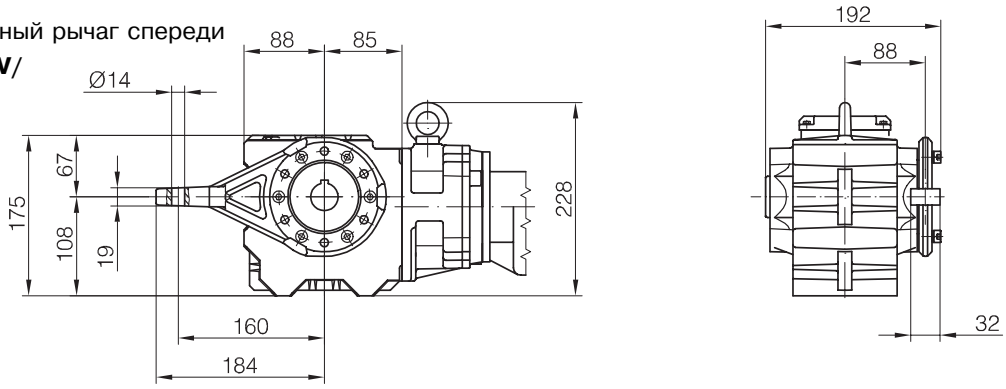
Размеры фланца

BS10G..	k	l	m	n	o	p	q	s	t
Стандартный -3.V/	Ø200	Ø165	Ø130	12	Ø11	190	108	3.5	39
Малый -2.V/	Ø160	Ø130	Ø110	10	Ø9	183	101	3.5	46

Тип	a	b	c	d	e	i	С тормозом											
							i_B	E003		E004		E008						
								c_B	d_B	c_B	d_B	c_B	d_B					
BS10G06-../D04..	143	195	111	511	12	90	90	111	554									
BS10G06-../D05..	170	197	123	541	12	100	100	123	583									
BS10G06-../D06..	170	197	123	541	12	100	100	123	583									
BS10G06-../D07..	190	197	123	561	12	100	100	123	603	123	603							
BS10G06-../D08..	200	241	156	614	12	115	115					156	689					

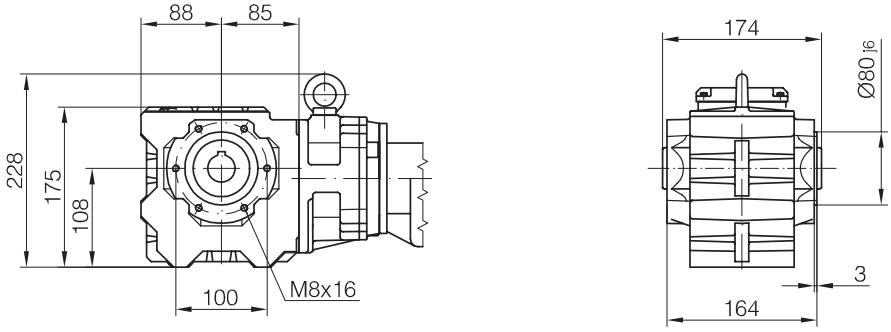
Моментный рычаг спереди

Код -5.V/



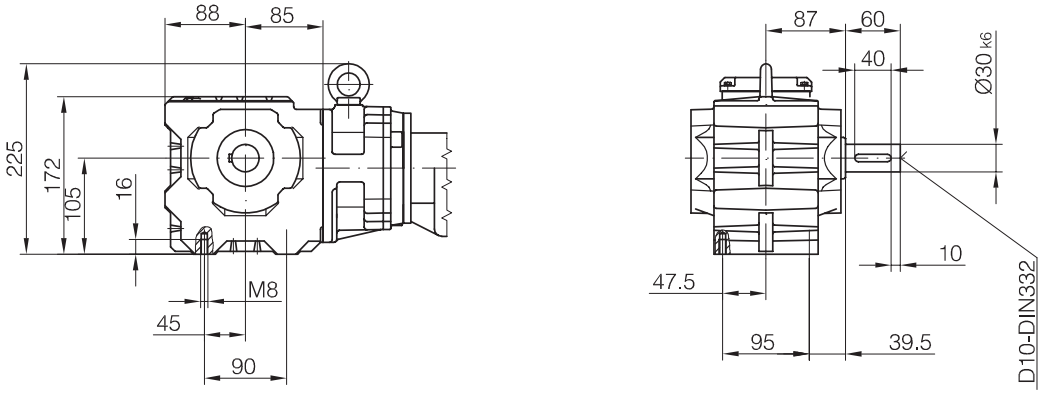
Фланец с резьбовыми отверстиями спереди

Код -7.V/



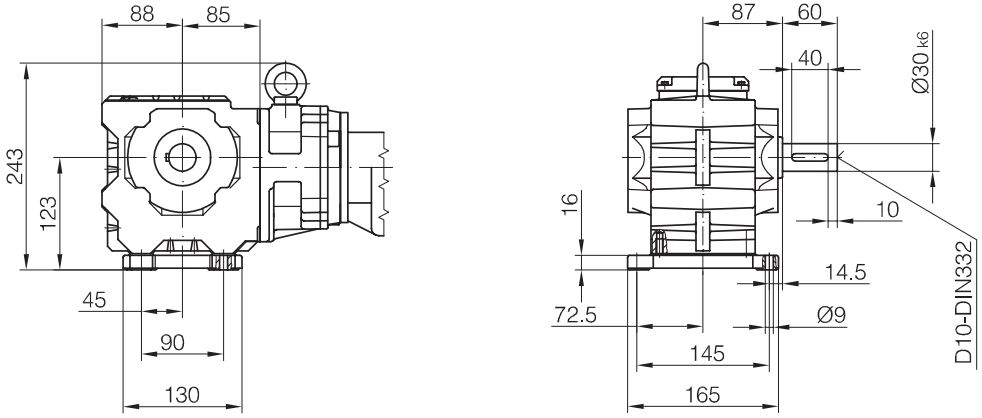
Резьбовые отверстия в корпусе снизу

Код -6.U/



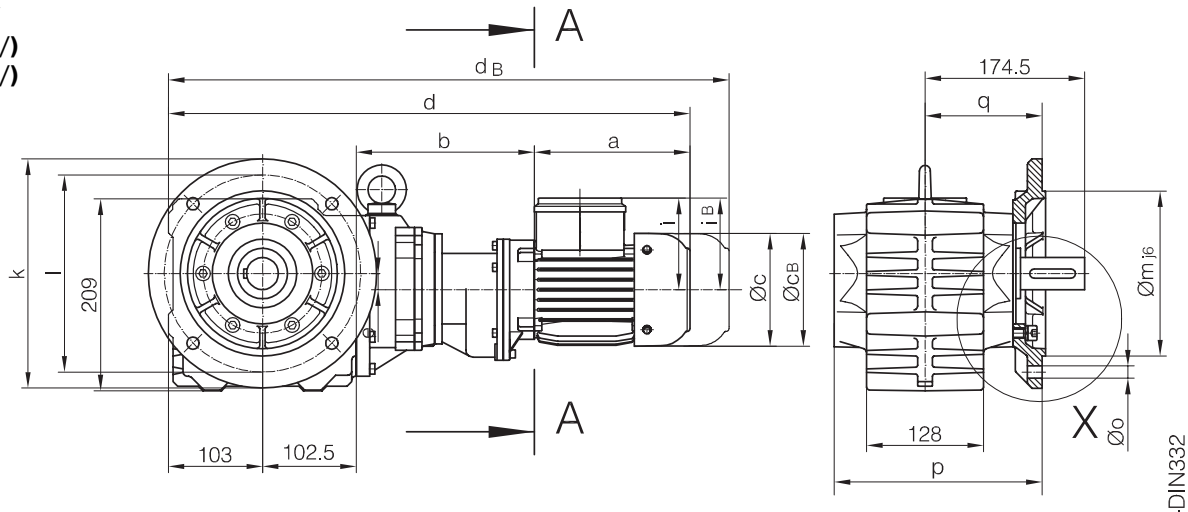
Лапа со сквозными отверстиями снизу

Код -1.U/

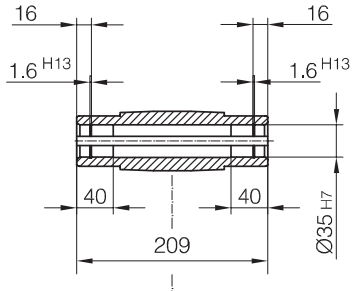


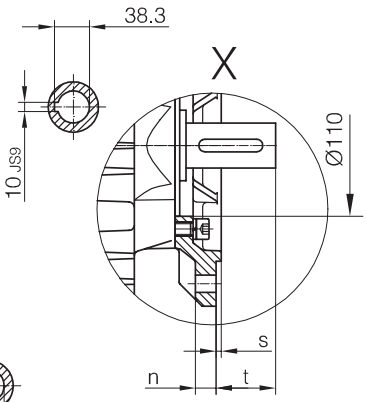
Фланец со сквозными отверстиями спереди

Код -3.V/
(Код -4.V/)
(Код -2.V/)

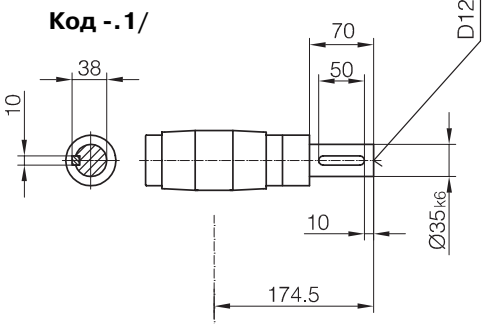


Код -.4/

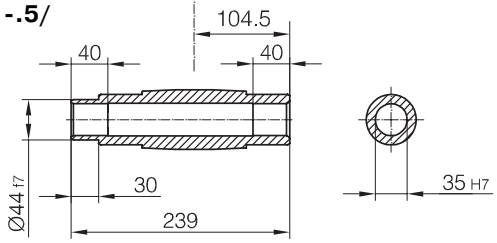




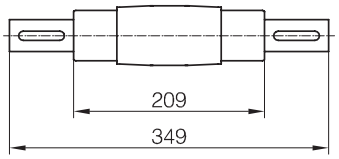
Код -.1/



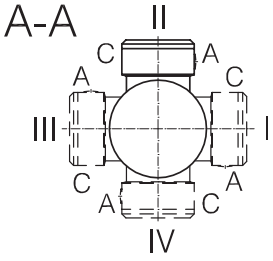
Код -.5/



Код -.3/



Стандартное положение



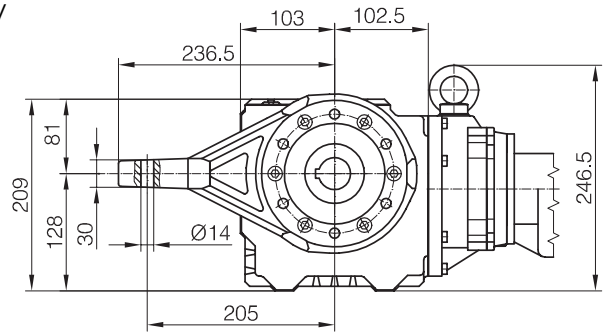
Размеры фланца

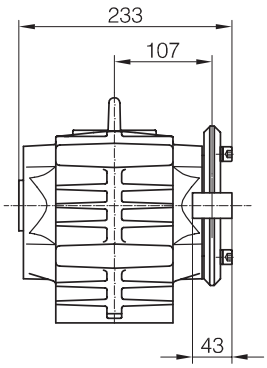
BS20G..	k	l	m	n	o	p	q	s	t
Стандартный -3.V/	Ø250	Ø215	Ø180	16	Ø13.5	227.5	128	4	46.5
Малый -2.V/	Ø200	Ø165	Ø130	12	Ø11	224.5	125	3.5	49.5
Большой -4.V/	Ø300	Ø265	Ø230	20	Ø13.5	233.5	134	4	40.5

Тип	a	b	c	d	e	i	i_B	С тормозом									
								E003		E004		E008					
								c_B	d_B	c_B	d_B	c_B	d_B				
BS20G06-../D04..	143	193	111	541	18	90	90	111	585								
BS20G06-../D05..	170	195	123	571	18	100	100	123	613								
BS20G06-../D06..	170	195	123	571	18	100	100	123	613								
BS20G06-../D07..	190	195	123	591	18	100	100	123	633	123	633						
BS20G06-../D08..	200	239	156	644	18	115	115					156	719				

Моментный рычаг спереди

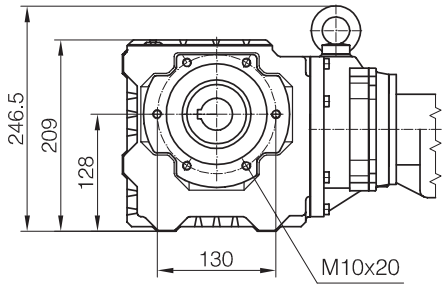
Код -5.V/

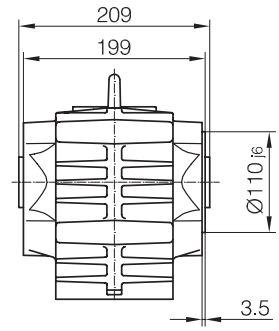




Фланец с резьбовыми отверстиями спереди

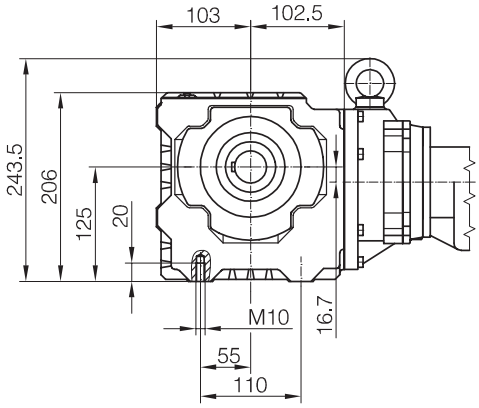
Код -7.V/

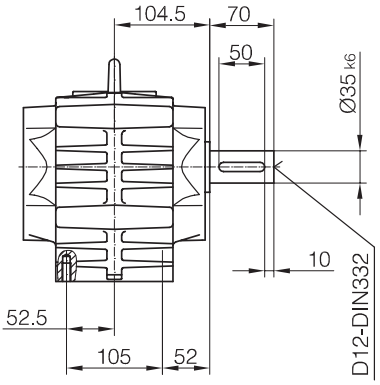




Резьбовые отверстия в корпусе снизу

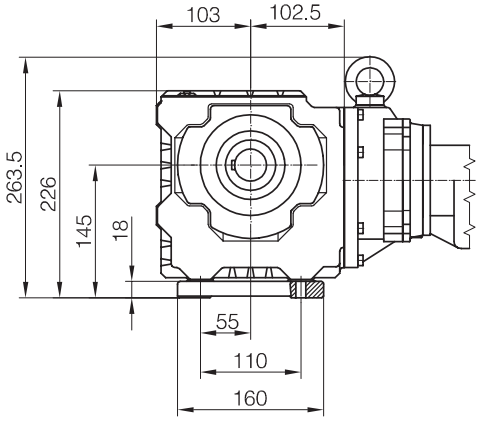
Код -6.U/

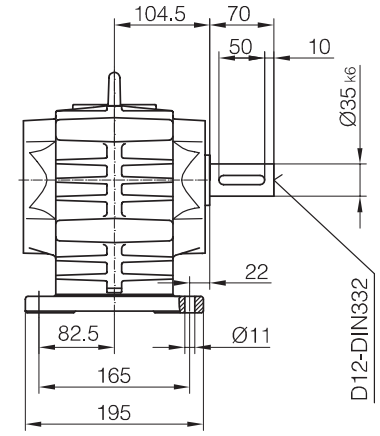




Лапа со сквозными отверстиями снизу

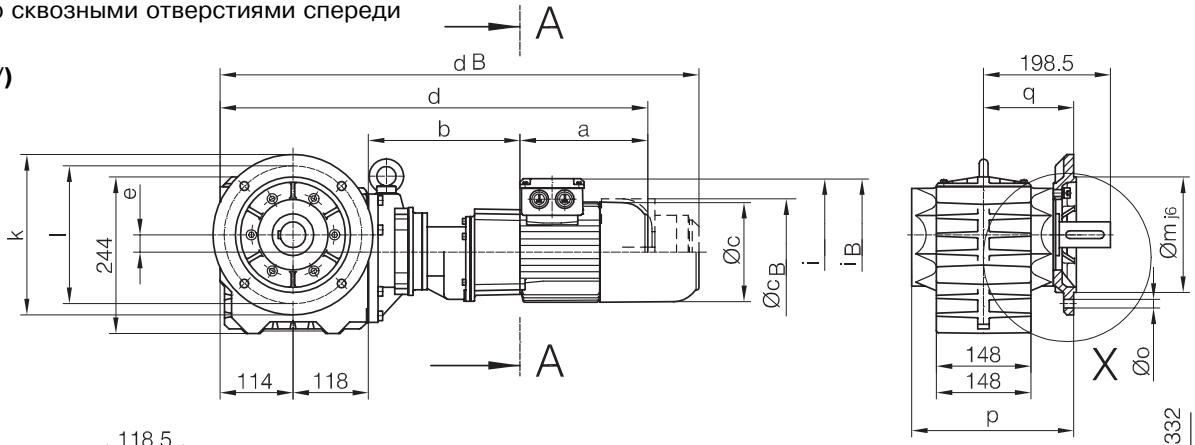
Код -1.U/



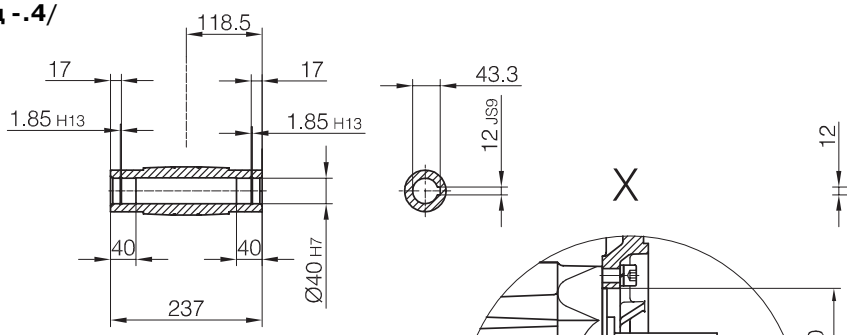


Фланец со сквозными отверстиями спереди

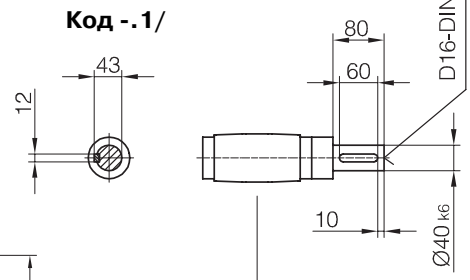
Код -3.V/ (Код -4.V/)



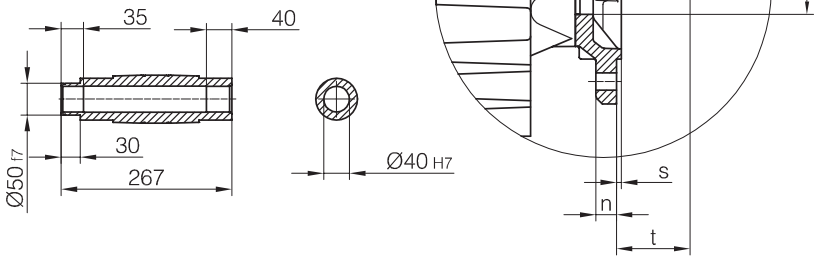
Код -.4/



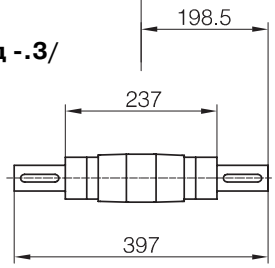
Код -.1/



Код -.5/

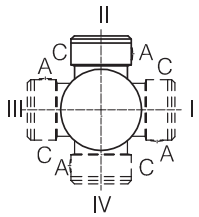


Код -.3/



Стандартное положение

A-A



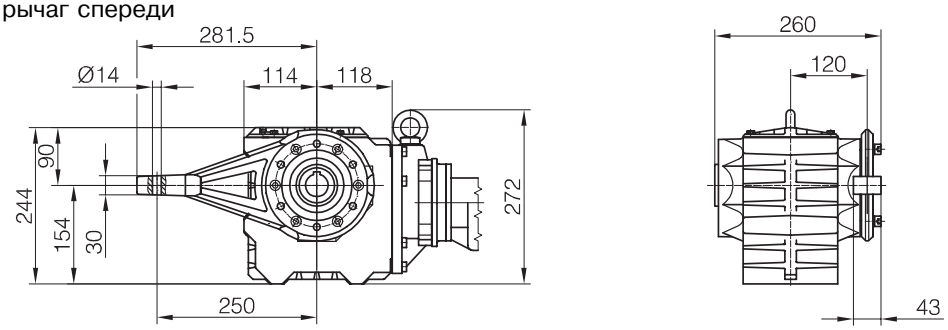
Размеры фланца

BS30G..	k	l	m	n	o	p	q	s	t
Стандартный -3.V/	Ø250	Ø215	Ø180	16	Ø13.5	253.5	141	4	57.5
Большой -4.V/	Ø300	Ø265	Ø230	20	Ø13.5	259.5	147	4	51.5

Тип	a	b	c	d	e	i	i_B	С тормозом											
								E003		E004		E008							
								c_B	d_B	c_B	d_B	c_B	d_B						
BS30G06-../D04..	143	191	111	566	27	90	90	111	609										
BS30G06-../D05..	170	193	123	596	27	100	100	123	638										
BS30G06-../D06..	170	193	123	596	27	100	100	123	638										
BS30G06-../D07..	190	193	123	616	27	100	100	123	658	123	658								
BS30G06-../D08..	200	237	156	669	27	115	115					156	744						

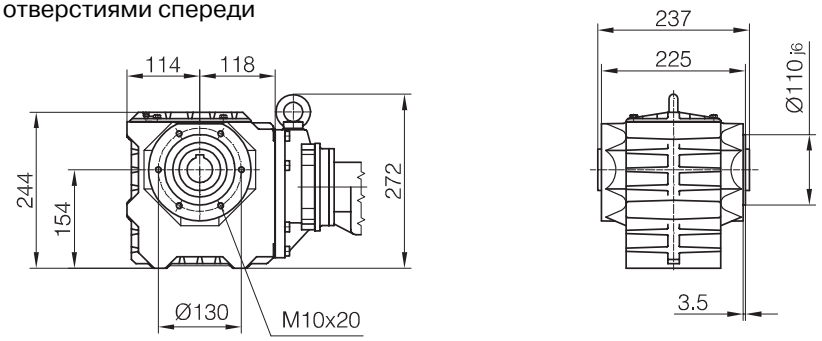
Моментный рычаг спереди

Код -5.V/



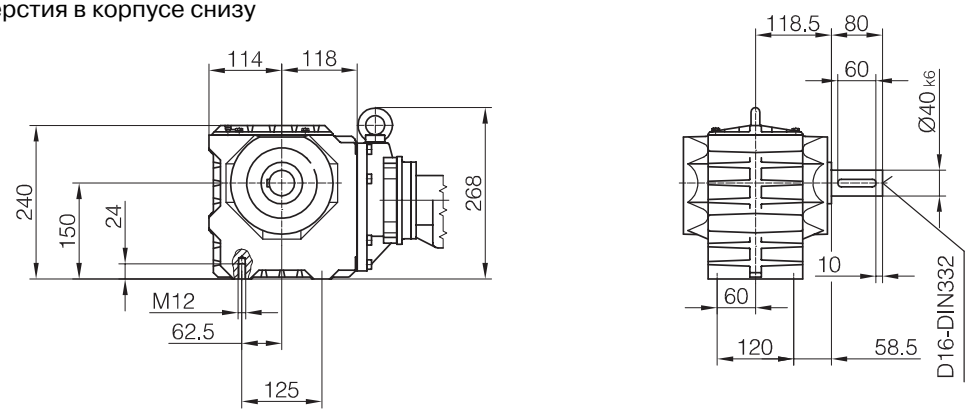
Фланец с резьбовыми отверстиями спереди

Код -7.V/



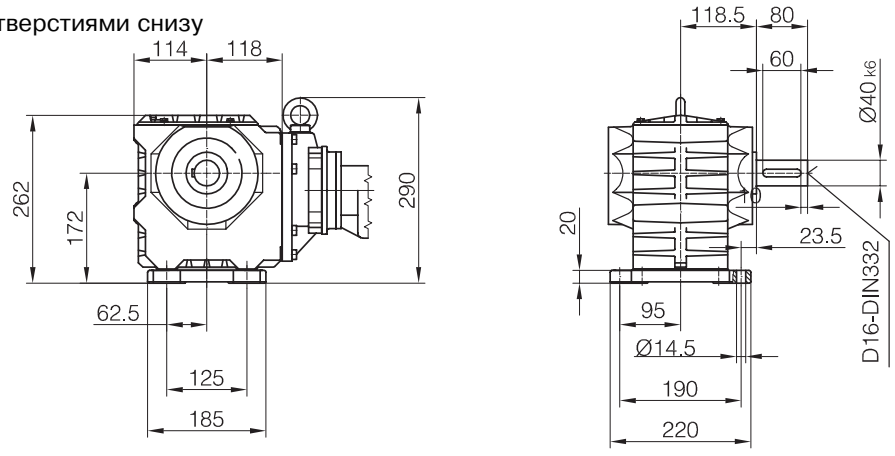
Резьбовые отверстия в корпусе снизу

Код -6.U/



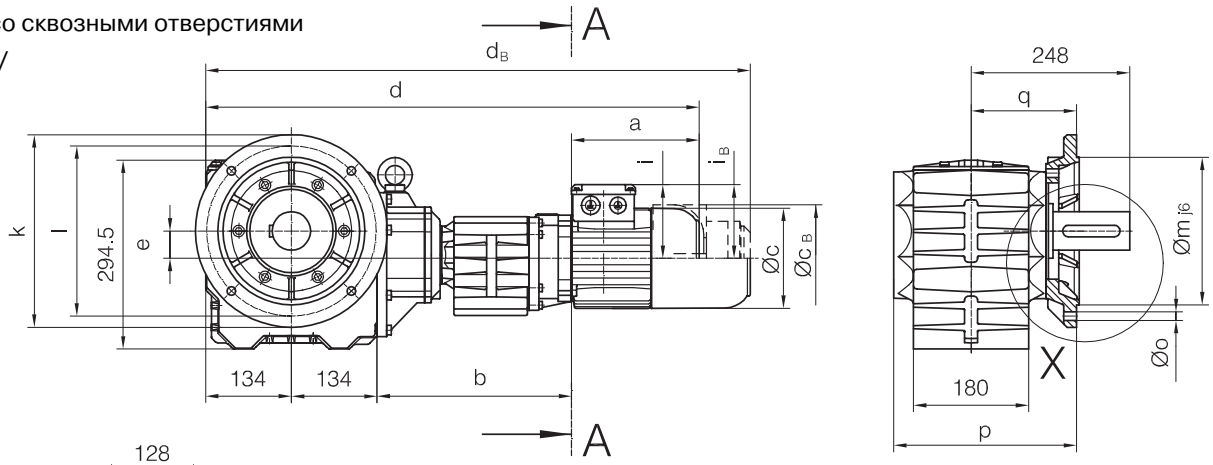
Лапа со сквозными отверстиями снизу

Код -1.U/

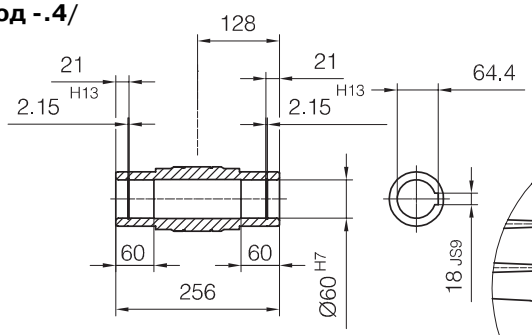


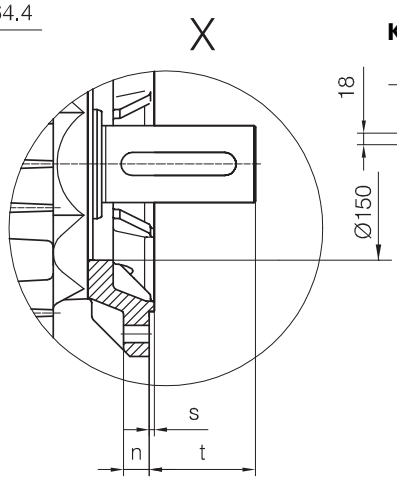
Фланец со сквозными отверстиями

Код -3.V/

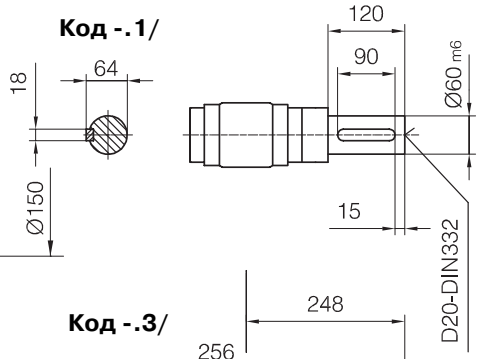


Код -.4/

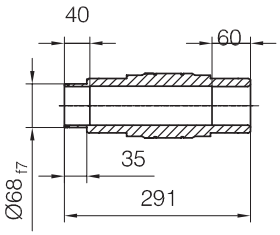




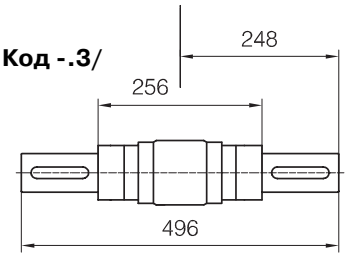
Код -.1/



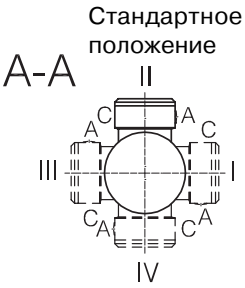
Код -.5/



Код -.3/



Стандартное положение



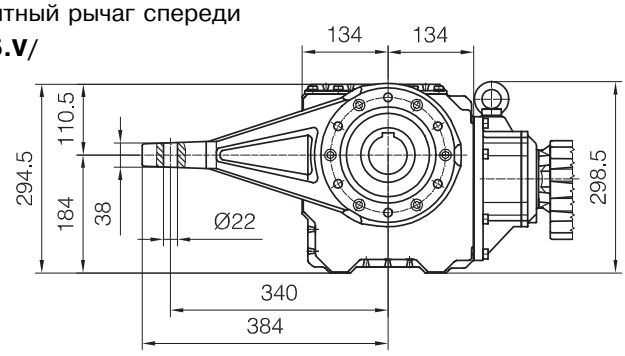
Размеры фланца

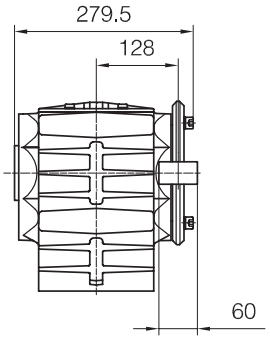
BS40G..	k	l	m	n	o	p	q	s	t
Стандартный -3.V/	Ø300	Ø265	Ø230	20	Ø13.5	286	165	4	83

Тип	a	b	c	d	e	i	i_B	С тормозом											
								E003		E004		E008		Z008		Z015			
								c_B	d_B	c_B	d_B	c_B	d_B	c_B	d_B	c_B	d_B		
BS40G10-../D06..	170	300	123	739	43	100	100	123	781										
BS40G10-../D06..	170	300	123	739	43	100	100	123	781										
BS40G10-../D07..	190	300	123	759	43	100	100	123	801	123	801								
BS40G10-../D08..	200	304	156	772	43	115	115					156	847						
BS40G10-../D09..	251	318.5	176	837	43	124	124					192	917	192	931	192	937		

Моментный рычаг спереди

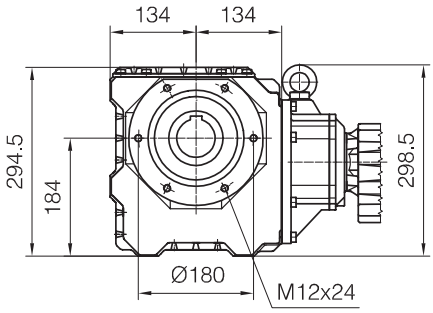
Код -5.V/

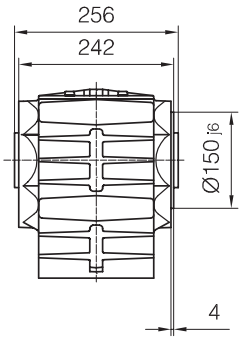




Фланец с резьбовыми отверстиями спереди

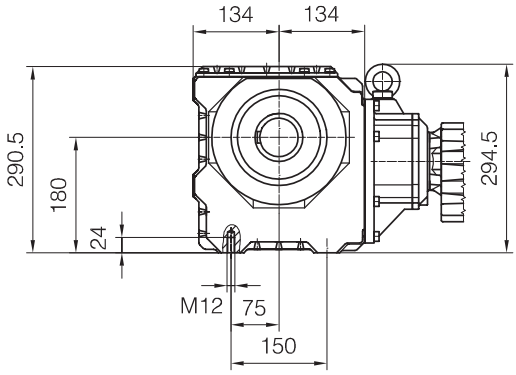
Код -7.V/

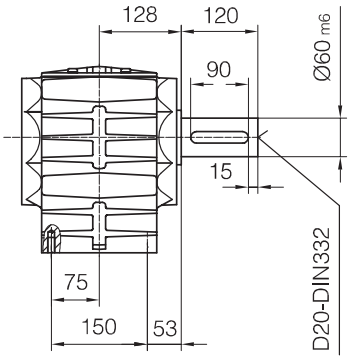




Резьбовые отверстия в корпусе снизу

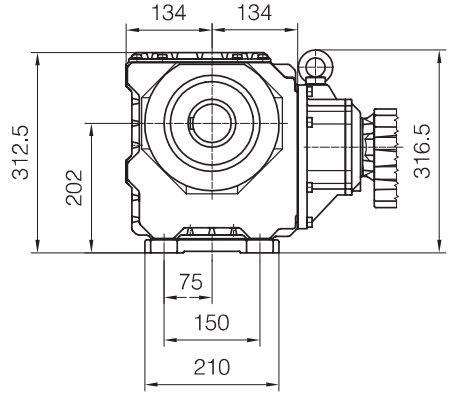
Код -6.U/

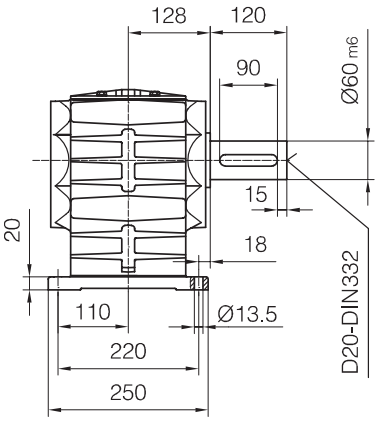




Лапа со сквозными отверстиями снизу

Код -1.U/



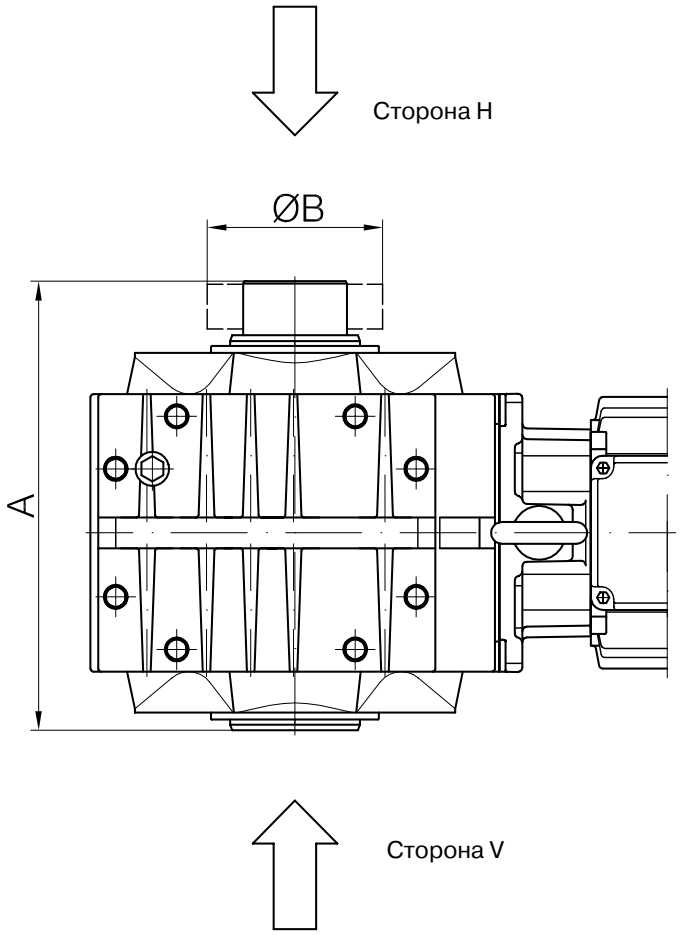


13.4 Принадлежности для червячных мотор-редукторов

13.4.1 Стяжная муфта

13.4.1.1 Мотор-редуктор со стяжной муфтой SSV

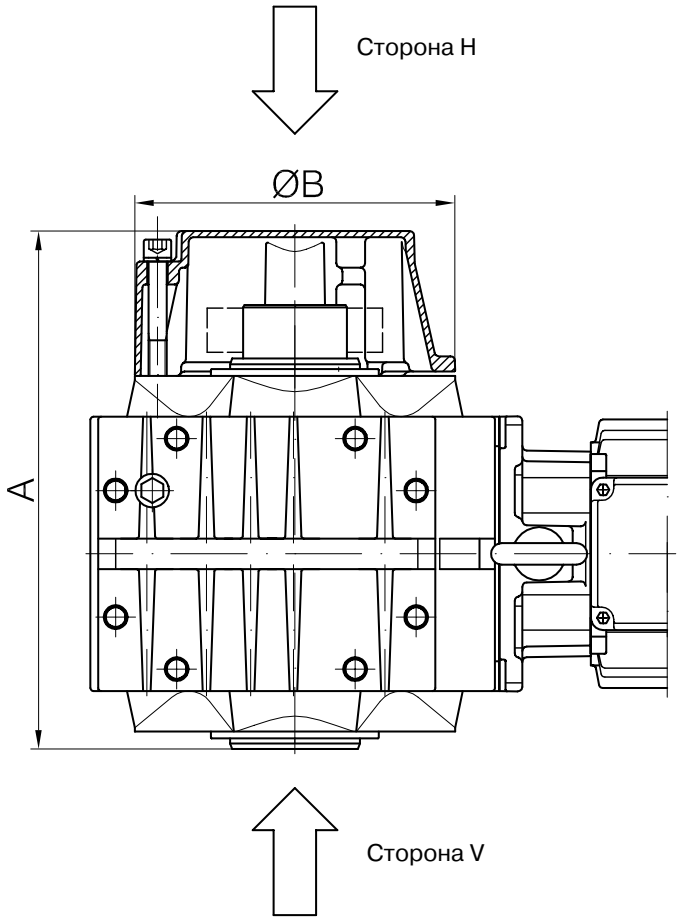
(Код BS10-.5/...)
(Код BS10Z-.5/...)



Тип	SSV BFS	SSV STÜWE	A	B
BS10	KB 11-36	HSD 36-22x36	199	72
BS20	KB 11-44	HSD 44-22x44	239	80
BS30	KB 11-50	HSD 50-22x50	267	90
BS40	KB 11-62-62	HSD 62-22x62	291	115

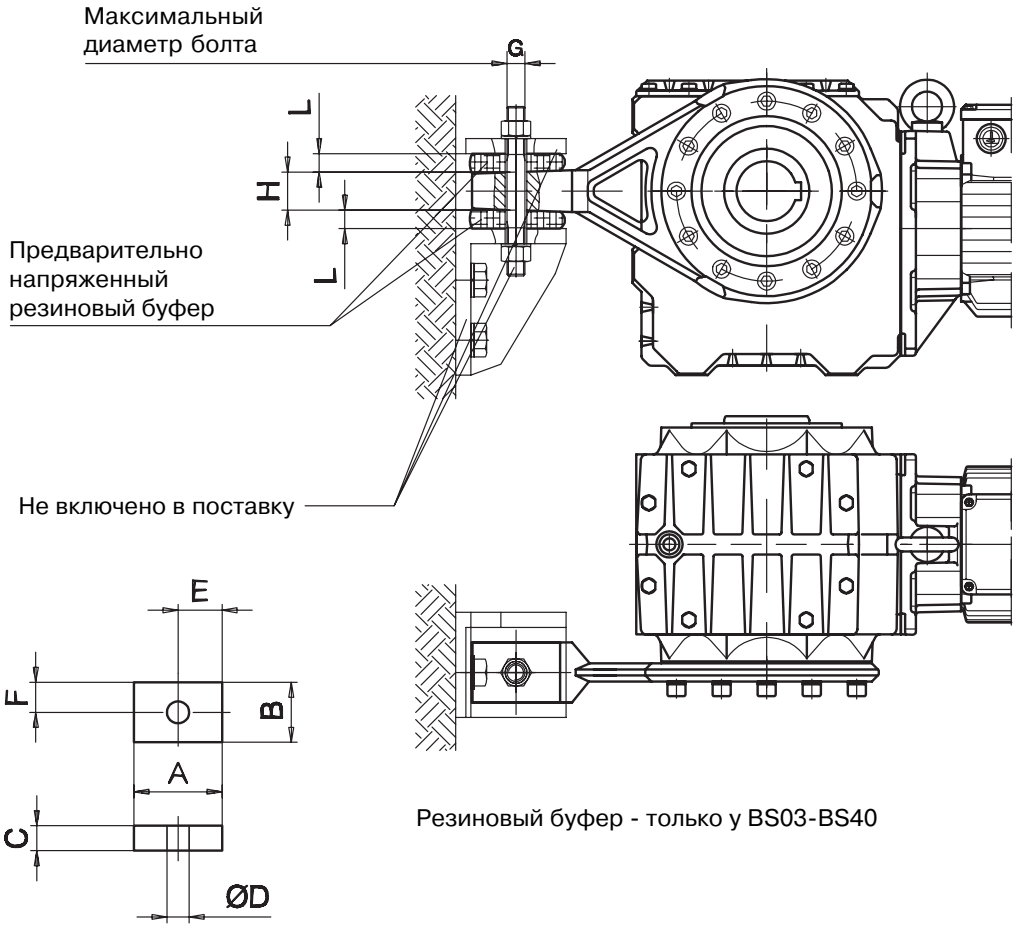
13.4.1.2 Кожух стяжной муфты

(Код BS10-.5A/...)
(Код BS10Z-.5A/...)



Тип	SSV BFS	SSV STÜWE	A	B
BS10	KB 11-36	HSD 36-22x36	221	120
BS20	KB 11-44	HSD 44-22x44	286	160
BS30	KB 11-50	HSD 50-22x50	313	160
BS40	KB 11-62-62	HSD 62-22x62	340	210

13.4.2 Резиновые буферы для моментного рычага



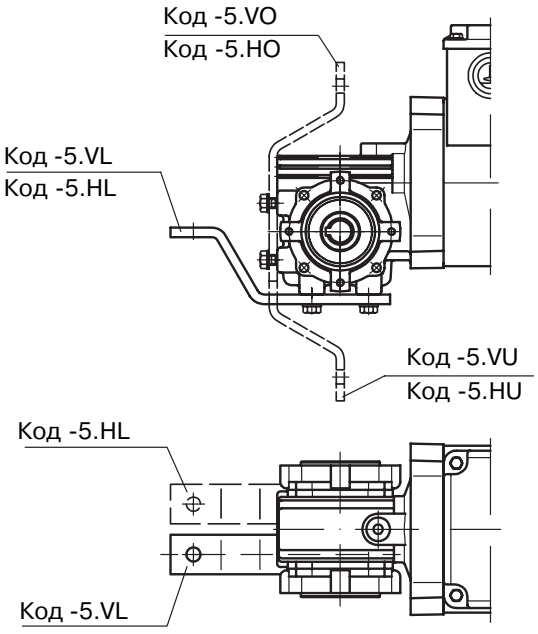
Резиновый буфер - только у BS03-BS40

Материал: натуральный каучук.
Твердость 50. Шор A±5

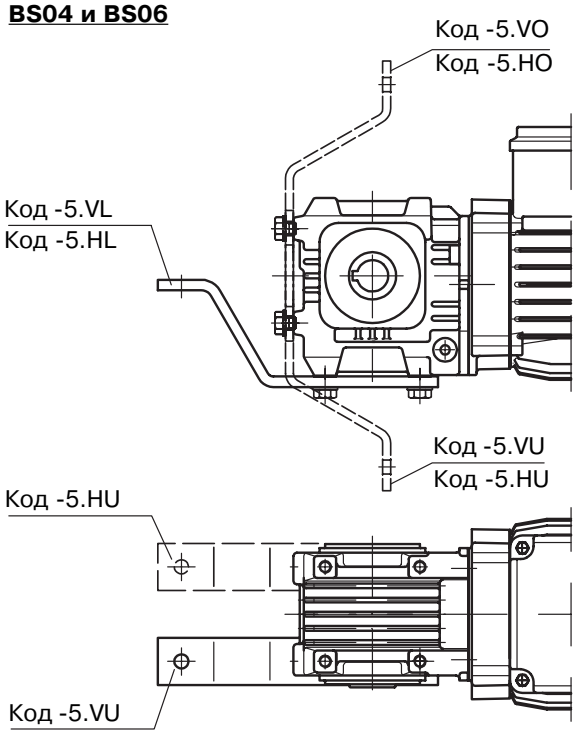
Редуктор	Поз.	Размеры, мм								
		A	B	C	D	E	F	G	H	L
BS02	-	-	-	-	-	-	-	M8	6	-
BS03	0	30	30	12	12	15	15	M8	10	10.5
BS04	0	30	30	12	12	15	15	M8	10	10.5
BS06	0	30	30	12	12	15	15	M10	10	10
BS10	1	48	32	15	14	24	16	M10	19	13
BS20	2	63	43	20	14	31.5	21.5	M10	30	17.5
BS30	2	63	43	20	14	31.5	21.5	M10	30	17
BS40	3	88	60	25	22	44	30	M18	38	22

13.4.3 Положение моментного рычага

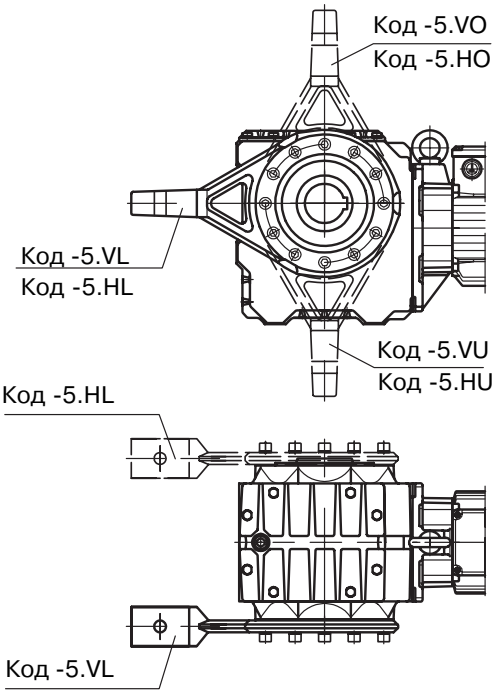
BS02 и BS03



BS04 и BS06



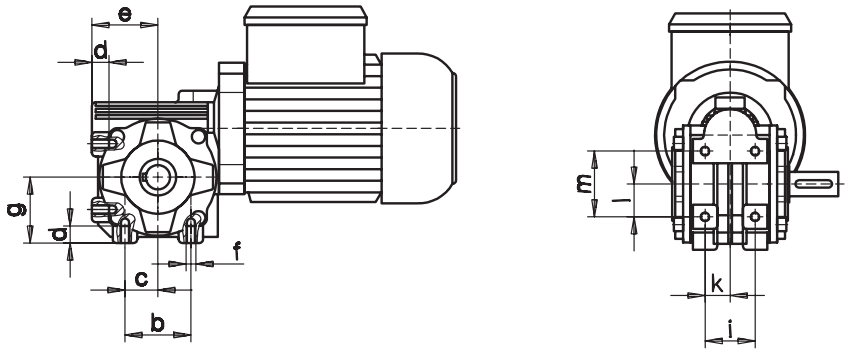
от BS10 до BS40



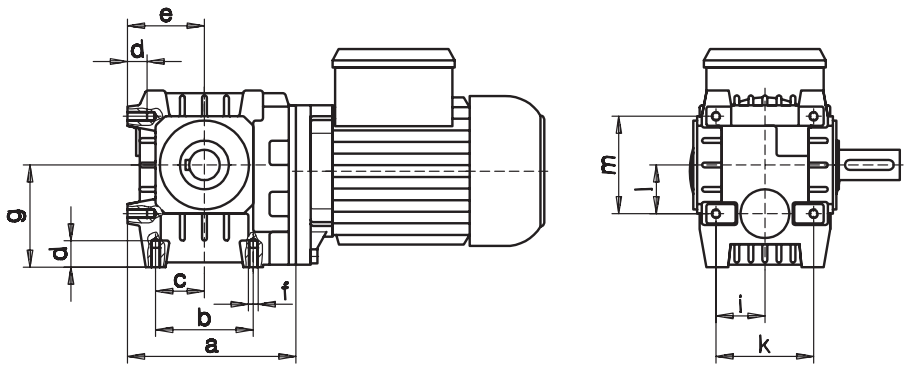
Другие положения
возможны по запросу

13.5 Дополнительные чертежи для червячных мотор-редукторов

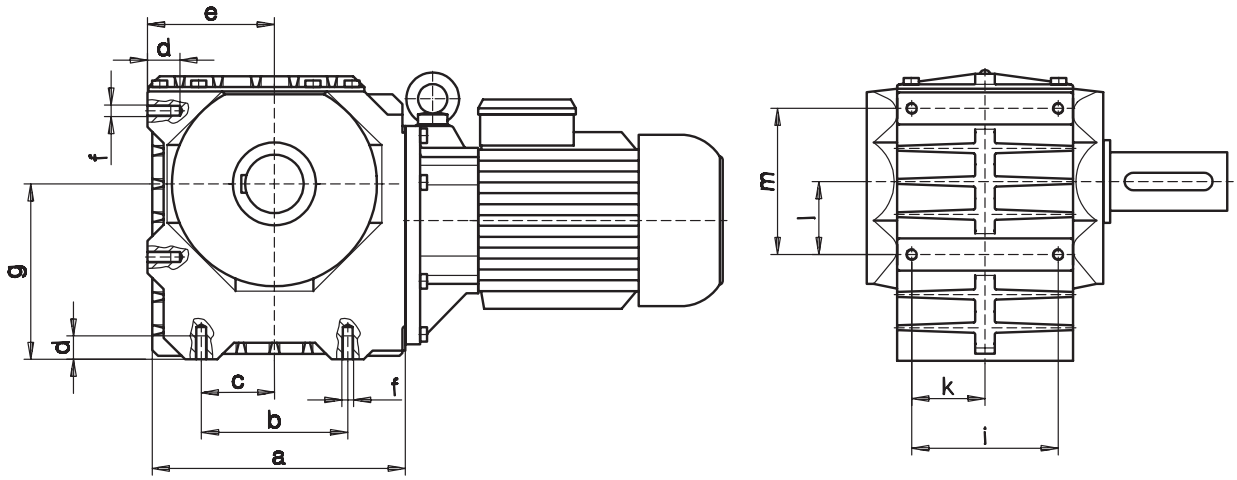
13.5.1 Резьбовые отверстия в корпусе редуктора



Тип	a	b	c	d	e	f	g		i	k	l	m
BS02	-	36	18	10	40	M6	40		32	16	18	36
BS03	-	54	27	14	54	M8	54		41	20.5	27	54

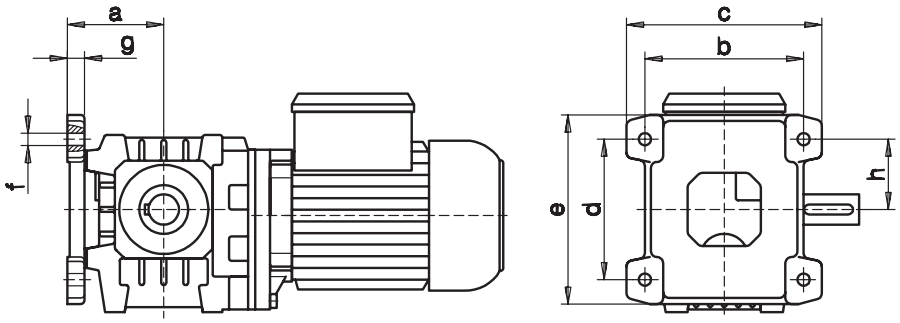


Тип	a	b	c	d	e	f	g		i	k	l	m
BS04	111	60	30	15.5	50	M8	64		30	60	30	60
BS06	138	80	40	16	63	M8	84		40	80	40	80

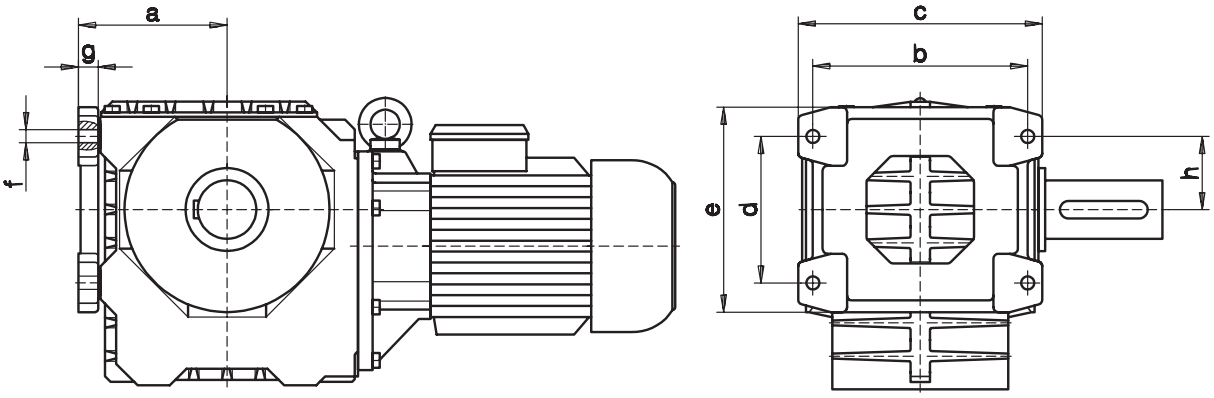


Тип	a	b	c	d	e	f	g		i	k	l	m
BS10-BS10Z	170	90	45	16	85	M8	105		95	47.5	45	90
BS20-BS20Z	202.5	110	55	20	100	M10	125		105	52.5	55	110
BS30-BS30Z	228	125	62.5	24	110	M12	150		120	60	62.5	125
BS40-BS40Z	264	150	75	24	130	M12	180		150	75	75	150

13.5.2 Опорная плита (лапа) со сквозными отверстиями



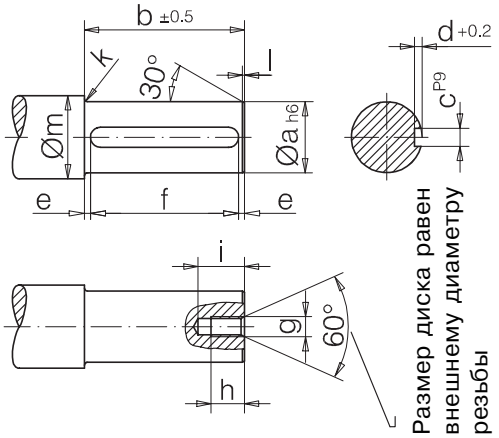
Тип	a	b	c	d	e	f	g	h
BS04	68	110	140	90	130	10	15	45
BS06	79	130	160	115	155	10	14	57.5



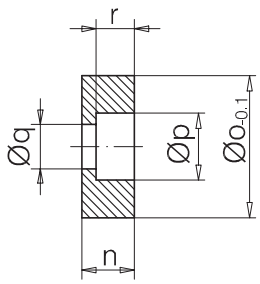
Тип	a	b	c	d	e	f	g	h
BS10-BS10Z	103	145	165	90	130	Ø9	16	72.5
BS20-BS20Z	120	165	195	110	160	Ø11	18	55
BS30-BS30Z	132	190	220	125	185	Ø13.5	20	62.5
BS40-BS40Z	152	220	250	150	210	Ø13.5	20	75

13.5.3 Инструменты для установки редукторов BS с полым валом с канавкой под шпонку

Поз. 1. Вал

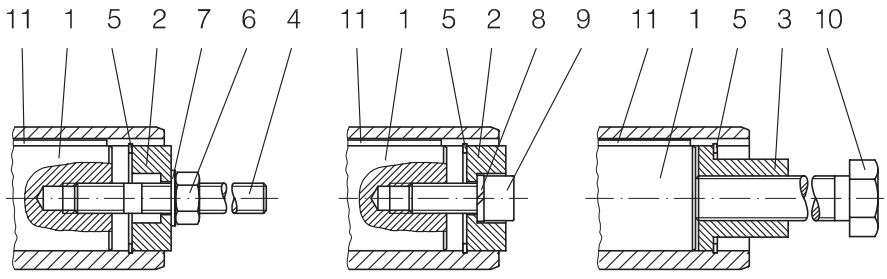


Поз. 2. Диск



x Края срезаны.
Материал:
C45 DIN17200

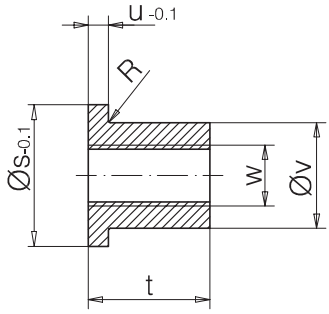
Тип	Размеры																
	Поз.1. Вал												Поз.2. Диск				
	a	b	c	d	e	f	g	h	i	k	l	m	n	o	p	q	r
BS03	20	75	6	3,5	6	$63^{+0.3}$	M6	16	21	2	1,5	28	13,5	19,8	11	6,6	6,5
BS04	20	71	6	3,5	7.5	$56^{+0.3}$	M6	16	21	2	1,5	28	13,5	19,8	11	6,6	6,5
BS06	25	99	8	4	9.5	$80^{+0.3}$	M8	18	24	2,5	1,5	33	13,5	24,8	15	9	8,5
BS10	30	152	8	4	6	$140^{+0.5}$	M10	20	26	3	1,5	38	15	29,8	18	11	10
BS20	35	186	10	5	13	$160^{+0.5}$	M10	20	26	3	1,5	43	16	34,8	18	11	10
BS30	40	212	12	5	6	$200^{+0.5}$	M12	22	29	3	2	48	18	39,8	20	13,5	12
BS40	60	227	18	7	13.5	$200^{+0.5}$	M20	38	46	3,5	2	68	24	59,8	33	22	18



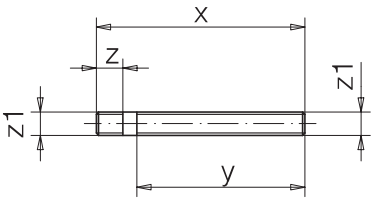
Установка Удержание Демонтаж

Набор деталей для удержания поставляется по заказу.

Поз.3 Съемник



Поз.4 Шпилька



Материал: сталь

Края срезаны.
Материал:
C45 DIN17200

Тип	Размеры										Стопорное кольцо	Гайка	Шайба	Гровер	Болт	Болт	Шпонка
	Поз.3 Съемник						Поз.4 Шпилька										
	s	t	u	v	w	R	x	y	z	z1	Поз.5	Поз.6	Поз.7	Поз.8	Поз.9	Поз.10	Поз.11
BS03	19,8	24	5	11	M8	-	120	90	18	M6	20x1,0	M6	6,4	6	M6x25	M8x110	A 8x7x63
BS04	19,8	24	5	11	M8	-	120	90	18	M6	20x1,0	M6	6,4	6	M6x25	M8x110	A 8x7x56
BS06	24,8	24	5	15,4	M12	0.8	150	120	20	M8	25x1,2	M8	8,4	8	M8x30	M12x140	A 8x7x80
BS10	29,8	28	5	19,8	M14	0.8	210	175	23	M10	30x1,2	M10	10,5	10	M10x30	M14x190	A 8x7x140
BS20	34,8	28	5	23	M14	-	250	215	23	M10	35x1,5	M10	10,5	10	M10x35	M14x230	A10x8x160
BS30	39,8	40	6	27.7	M20	0.8	280	240	28	M12	40x1,75	M12	13	12	M12x35	M20x270	A 12x8x200
BS40	59,8	60	6	44	M30	-	320	260	45	M20	60x2.0	M20	21	20	M20x50	M30x310	A 18x11x200