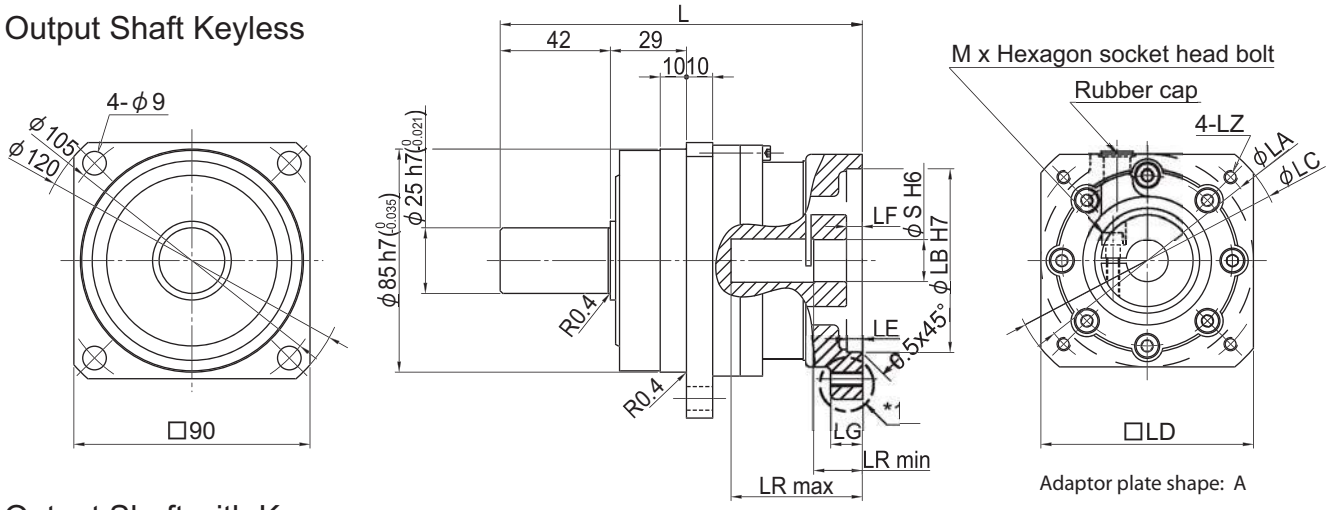
Dimension Drawings

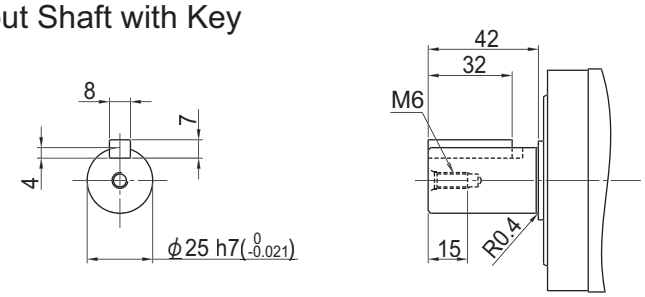
Frame Size: P120
Reduction Ratio: 1/5
Solid Shaft

Output Shaft Keyless



Adaptor plate shape: A

Output Shaft with Key



Nomenclature
ANFX-P120

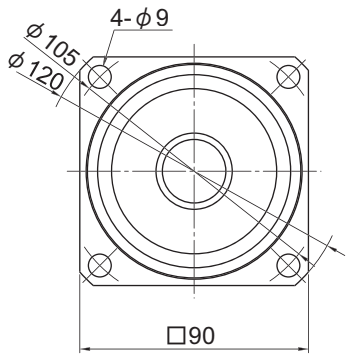
- Output shaft type: Keyless: N / With key: W
- Motor flange code
- Backlash: 3 min: L3 / 15 min: LD
- Reduction ratio (5)

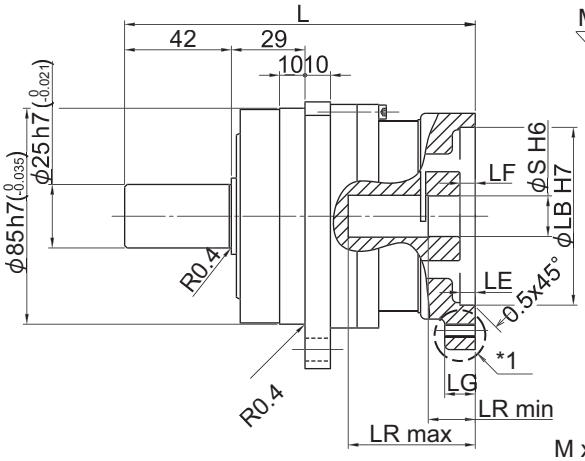
Motor flange code	L	Dimension LA	LB	LC	LD	LE	LF	LG	*1 Shape	Adaptor plate shape	LZ	LR max	LR min	S	M	Mass [kg]	Motor flange code
0U	138	90	70	105	81	6	6	12	Through hole	A	M5	50	18.5	16	M5	2.5	0U
7S		90	70	105	81	6	6	12	Through hole		M5	50	18.5	19	M5	2.4	7S
7P		90	70	105	81	6	6	12	Through hole		M6	50	18.5	16	M5	2.5	7P
1G		90	70	105	81	6	6	12	Through hole		M6	50	18.5	19	M5	2.4	1G
0V Note3	151.5	100	80	120	90	5	19.5	12	Through hole		M6	63.5	30	14	M4	2.6	0V Note3
8E		100	80	120	90	5	19.5	12	Through hole		M6	63.5	32	16	M5	2.6	8E
7V		100	80	120	90	5	19.5	12	Through hole		M6	63.5	32	19	M5	2.5	7V
1L	164.5	115	95	135	100	6	17	16	Through hole		M6	46	31.5	24	M6	2.9	1L
7A	151.5	115	95	135	100	6	19.5	16	Through hole		M8	63.5	32	16	M5	2.7	7A
7B		115	95	135	100	6	19.5	16	Through hole		M8	63.5	32	19	M5	2.6	7B
0W	164.5	115	95	135	100	6	17	16	Through hole		M8	46	31.5	22	M6	3.0	0W
7Y		115	95	135	100	6	17	16	Through hole		M8	46	31.5	24	M6	2.9	7Y
0Y		135	110	165	120	7	17	16	Through hole		M8	46	31.5	22	M6	3.1	0Y
7R	154.5	145	110	165	120	7	22.5	16	Through hole		M8	66.5	35	16	M5	2.8	7R
7X		145	110	165	120	7	22.5	16	Through hole		M8	66.5	35	19	M5	2.7	7X
1S	189.5	145	110	165	120	7	42	16	Through hole		M8	71	55	22	M6	3.2	1S
7Z		145	110	165	120	7	42	16	Through hole		M8	71	55	24	M6	3.2	7Z

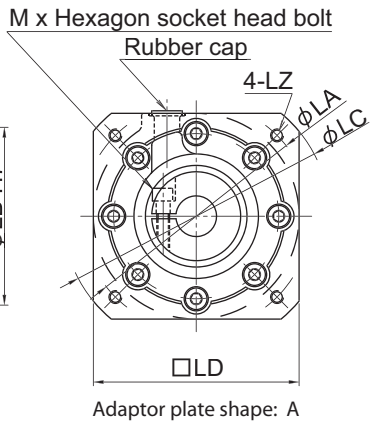
Note 1: Dimension of shaft end key: Dimension tolerance conforms to JIS B 1301-1996 "Parallel Key."
2: Dimension of coupling of motor flange code (0V) includes tolerance (+0.012 ~ +0.023)
3: Dimensions and mass shown in the above figures are subject to change without prior notification.

Frame Size: P120
Reduction Ratio: 1/9
Solid Shaft

Output Shaft Keyless

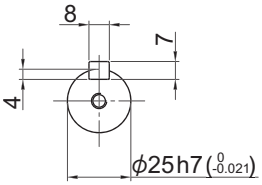


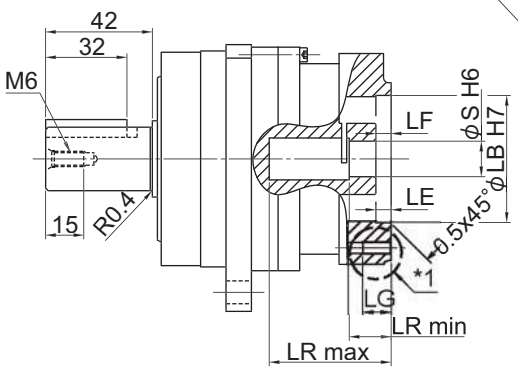


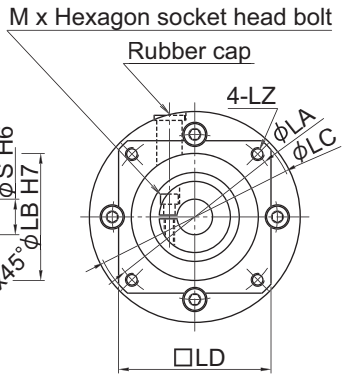


Adaptor plate shape: A

Output Shaft with Key







Adaptor plate shape: B

Nomenclature
ANFX-P120

- Output shaft type: Keyless: N; With key: W
- Motor flange code
- Backlash: 3 min: L3; 15 min: LD
- Reduction ratio (9)

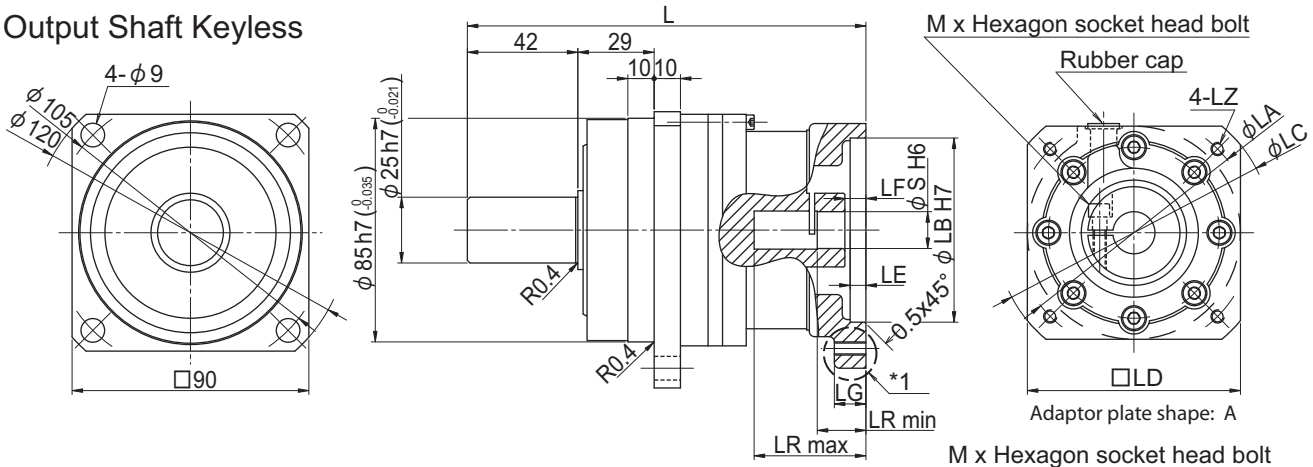
Motor flange code	L	Dimension LA	LB	LC	LD	LE	LF	LG	*1 Shape	Adaptor plate shape	LZ	LR max	LR min	S	M	Mass [kg]	Motor flange code
2R	136	70	50	80	60	6	6	11	Useful thread length	B	M5	48	16.5	14	M4	2.5	2R
0U	138	90	70	105	81	6	6	12	Through hole	A	M5	50	18.5	16	M5	2.5	0U
7S		90	70	105	81	6	6	12	Through hole		M5	50	18.5	19	M5	2.4	7S
7P		90	70	105	81	6	6	12	Through hole		M6	50	18.5	16	M5	2.5	7P
1G		90	70	105	81	6	6	12	Through hole		M6	50	18.5	19	M5	2.4	1G
2J	151.5	100	80	120	90	5	21.5	12	Through hole		M6	63.5	32	10	M4	2.6	2J
0V Note3		100	80	120	90	5	19.5	12	Through hole		M6	63.5	30	14	M4	2.4	0V Note3
8E		100	80	120	90	5	19.5	12	Through hole		M6	63.5	32	16	M5	2.6	8E
7V		100	80	120	90	5	19.5	12	Through hole		M6	63.5	32	19	M5	2.5	7V
1L	164.5	115	95	135	100	6	17	16	Through hole		M6	46	31.5	24	M6	2.9	1L
7A	151.5	115	95	135	100	6	19.5	16	Through hole		M8	63.5	32	16	M5	2.7	7A
7B		115	95	135	100	6	19.5	16	Through hole		M8	63.5	32	19	M5	2.6	7B
0W	164.5	115	95	135	100	6	17	16	Through hole		M8	46	31.5	22	M6	3.0	0W
7Y		115	95	135	100	6	17	16	Through hole		M8	46	31.5	24	M6	2.9	7Y
0Y		135	110	165	120	7	17	16	Through hole		M8	46	31.5	22	M6	3.1	0Y
7R	154.5	145	110	165	120	7	22.5	16	Through hole		M8	66.5	35	16	M5	2.8	7R
7X		145	110	165	120	7	22.5	16	Through hole		M8	66.5	35	19	M5	2.8	7X
1S	189.5	145	110	165	120	7	42	16	Through hole		M8	71	55	22	M6	3.3	1S
7Z		145	110	165	120	7	42	16	Through hole		M8	71	55	24	M6	3.2	7Z

Note 1: Dimension of shaft end key: Dimension tolerance conforms to JIS B 1301-1996 "Parallel Key."
2: Dimension of coupling of motor flange code (0V) includes tolerance (+0.012 ~ +0.023)
3: Dimensions and mass shown in the above figures are subject to change without prior notification.

Dimension Drawings

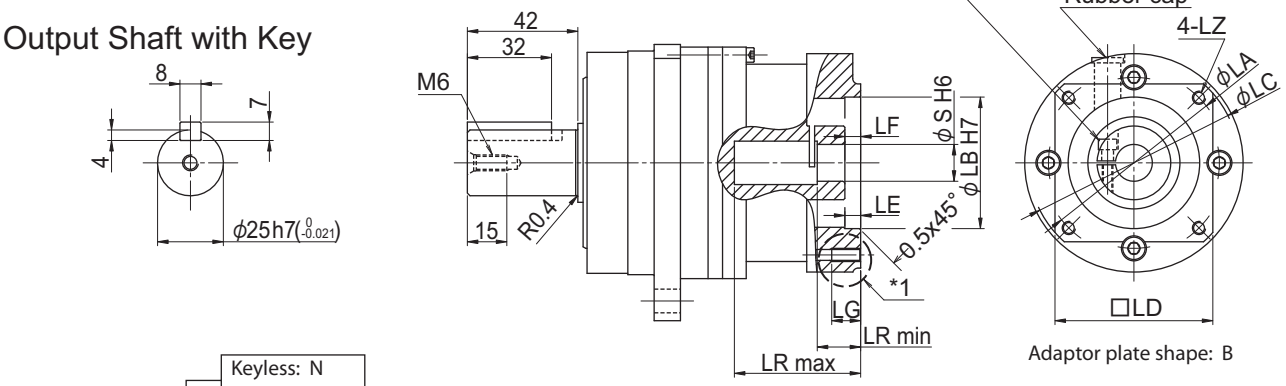
Frame Size: P120
Reduction Ratio: 1/11
Solid Shaft

Output Shaft Keyless



Adaptor plate shape: A

Output Shaft with Key



Adaptor plate shape: B

Nomenclature
ANFX-P120

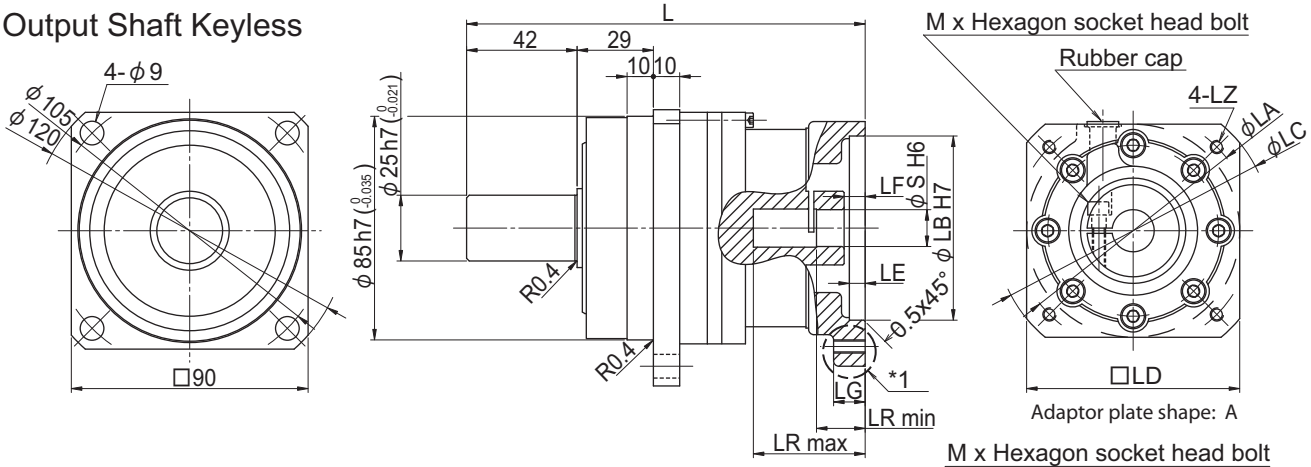
- Output shaft type: Keyless: N / With key: W
- Motor flange code
- Backlash: 3 min: L3 / 15 min: LD
- Reduction ratio (11)

Motor flange code	L	Dimension LA	LB	LC	LD	LE	LF	LG	*1 Shape	Adaptor plate shape	LZ	LR max	LR min	S	M	Mass [kg]	Motor flange code
2P	149.5	70	50	80	60	6	6	9	Useful thread length	B	M4	40.5	16.5	14	M4	2.8	2P
2R		70	50	80	60	6	6	11	Useful thread length		M5	40.5	16.5	14	M4	2.8	2R
8B	151.5	90	70	105	81	6	8	12	Through hole	A	M5	42.5	18.5	14	M4	2.8	8B
0U		90	70	105	81	6	6	12	Through hole		M5	42.5	18.5	16	M5	2.9	0U
7S		90	70	105	81	6	6	12	Through hole		M5	42.5	18.5	19	M5	2.9	7S
2T		90	70	105	81	6	8	12	Through hole		M6	42.5	18.5	14	M4	2.8	2T
7P		90	70	105	81	6	6	12	Through hole		M6	42.5	18.5	16	M5	2.9	7P
1G		90	70	105	81	6	6	12	Through hole		M6	42.5	18.5	19	M5	2.9	1G
2J	165	100	80	120	90	5	21.5	12	Through hole		M6	56	32	10	M4	3.0	2J
0V[Note3]		100	80	120	90	5	19.5	12	Through hole		M6	56	30	14	M4	2.9	0V[Note3]
8E		100	80	120	90	5	19.5	12	Through hole		M6	56	32	16	M5	3.0	8E
7V		100	80	120	90	5	19.5	12	Through hole		M6	56	32	19	M5	3.0	7V
1L	178	115	95	135	100	6	17	16	Through hole		M6	46	31.5	24	M6	3.4	1L
7A	165	115	95	135	100	6	19.5	16	Through hole		M8	56	32	16	M5	3.1	7A
0W	178	115	95	135	100	6	17	16	Through hole		M8	46	31.5	22	M6	3.7	0W
7Y		115	95	135	100	6	17	16	Through hole		M8	46	31.5	24	M6	3.4	7Y
0Y		135	110	165	120	7	17	16	Through hole		M8	46	31.5	22	M6	3.6	0Y
7R	168	145	110	165	120	7	22.5	16	Through hole		M8	59	35	16	M5	3.2	7R
7X		145	110	165	120	7	22.5	16	Through hole		M8	59	35	19	M5	3.2	7X
7Z	203	145	110	165	120	7	42	16	Through hole		M8	71	56.5	24	M6	3.7	7Z

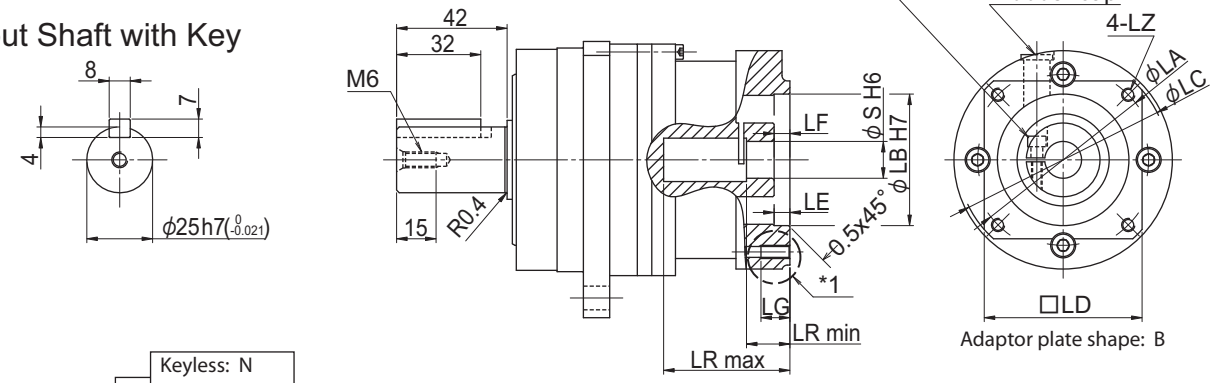
Note 1: Dimension of shaft end key: Dimension tolerance conforms to JIS B 1301-1996 "Parallel Key."
2: Dimension of coupling of motor flange code (0V) includes tolerance (+0.012 ~ +0.023)
3: Dimensions and mass shown in the above figures are subject to change without prior notification.

Frame Size: P120
Reduction Ratio: 1/15
Solid Shaft

Output Shaft Keyless



Output Shaft with Key



Nomenclature
ANFX-P120

Keyless: N
With key: W

Output shaft type | Motor flange code | Backlash | Reduction ratio (15)

3 min: L3
15 min: LD

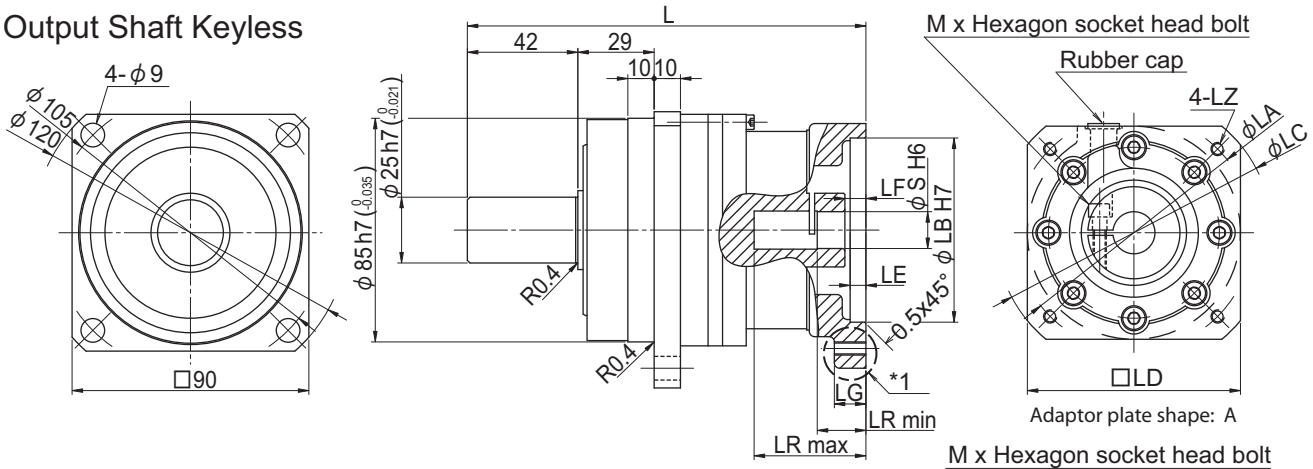
Motor flange code	L	Dimension LA	LB	LC	LD	LE	LF	LG	*1 Shape	Adaptor plate shape	LZ	LR max	LR min	S	M	Mass [kg]	Motor flange code
2P	149.5	70	50	80	60	6	6	9	Useful thread length	B	M4	40.5	16.5	14	M4	2.8	2P
2R		70	50	80	60	6	6	11	Useful thread length		M5	40.5	16.5	14	M4	2.8	2R
8B	151.5	90	70	105	81	6	8	12	Through hole	A	M5	42.5	18.5	14	M4	2.8	8B
0U		90	70	105	81	6	6	12	Through hole		M5	42.5	18.5	16	M5	2.9	0U
7S		90	70	105	81	6	6	12	Through hole		M5	42.5	18.5	19	M5	2.9	7S
2T		90	70	105	81	6	8	12	Through hole		M6	42.5	18.5	14	M4	2.8	2T
7P		90	70	105	81	6	6	12	Through hole		M6	42.5	18.5	16	M5	2.9	7P
1G		90	70	105	81	6	6	12	Through hole		M6	42.5	18.5	19	M5	2.9	1G
2J	165	100	80	120	90	5	21.5	12	Through hole		M6	56	32	10	M4	3.0	2J
0V Note3		100	80	120	90	5	19.5	12	Through hole		M6	56	30	14	M4	2.9	0V Note3
8E		100	80	120	90	5	19.5	12	Through hole		M6	56	32	16	M5	3.0	8E
7V		100	80	120	90	5	19.5	12	Through hole		M6	56	32	19	M5	3.0	7V
1L	178	115	95	135	100	6	17	16	Through hole		M6	46	31.5	24	M6	3.4	1L
7A	165	115	95	135	100	6	19.5	16	Through hole		M8	56	32	16	M5	3.1	7A
0W	178	115	95	135	100	6	17	16	Through hole		M8	46	31.5	22	M6	3.7	0W
7Y		115	95	135	100	6	17	16	Through hole		M8	46	31.5	24	M6	3.4	7Y
0Y		135	110	165	120	7	17	16	Through hole		M8	46	31.5	22	M6	3.6	0Y
7R	168	145	110	165	120	7	22.5	16	Through hole		M8	59	35	16	M5	3.2	7R
7X		145	110	165	120	7	22.5	16	Through hole		M8	59	35	19	M5	3.2	7X
7Z	203	145	110	165	120	7	42	16	Through hole		M8	71	56.5	24	M6	3.7	7Z

Note 1: Dimension of shaft end key: Dimension tolerance conforms to JIS B 1301-1996 "Parallel Key."
2: Dimension of coupling of motor flange code (0V) includes tolerance (+0.012 ~ +0.023)
3: Dimensions and mass shown in the above figures are subject to change without prior notification.

Dimension Drawings

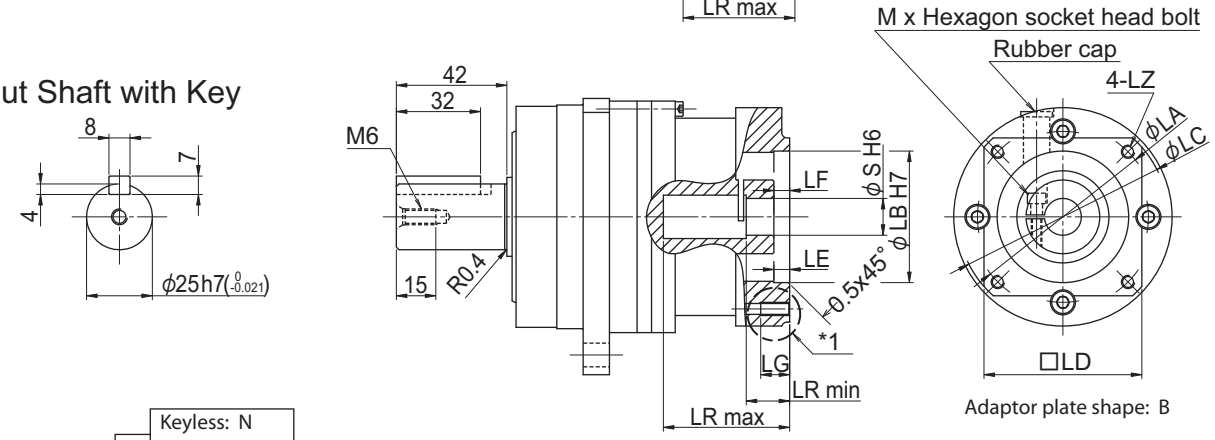
Frame Size: P120
Reduction Ratio: 1/21
Solid Shaft

Output Shaft Keyless



Adaptor plate shape: A

Output Shaft with Key



Adaptor plate shape: B

Nomenclature
ANFX-P120

Keyless: N
With key: W

Output shaft type | Motor flange code | Backlash | Reduction ratio (21)

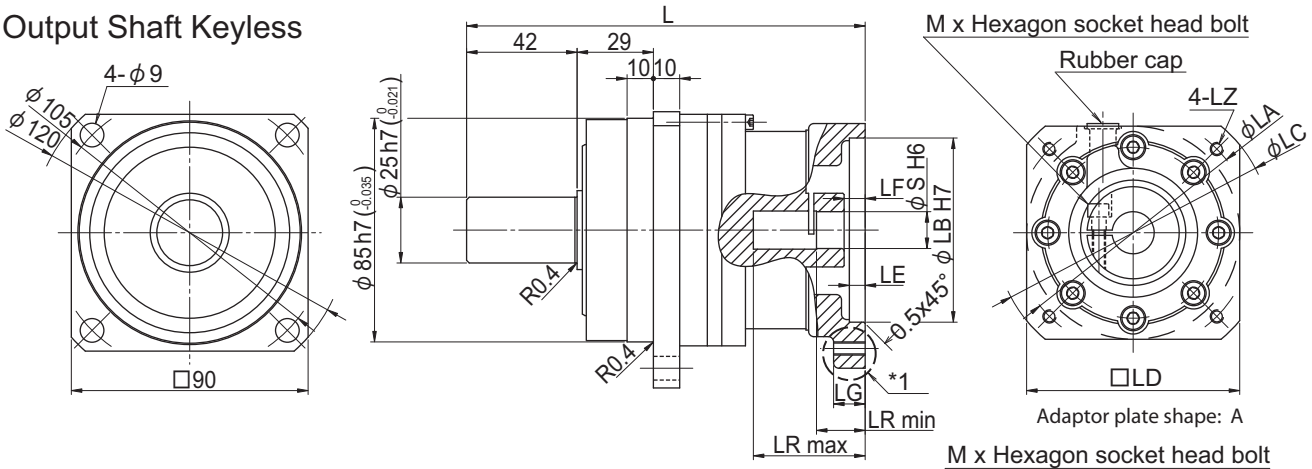
3 min: L3
15 min: LD

Motor flange code	L	Dimension LA	LB	LC	LD	LE	LF	LG	*1 Shape	Adaptor plate shape	LZ	LR max	LR min	S	M	Mass [kg]	Motor flange code
2P	149.5	70	50	80	60	6	6	9	Useful thread length	B	M4	40.5	16.5	14	M4	2.8	2P
2H		70	50	80	60	6	6	11	Useful thread length		M5	40.5	16.5	9	M4	2.8	2H
2R		70	50	80	60	6	6	11	Useful thread length		M5	40.5	16.5	14	M4	2.8	2R
8B	151.5	90	70	105	81	6	8	12	Through hole	A	M5	42.5	18.5	14	M4	2.8	8B
0U		90	70	105	81	6	6	12	Through hole		M5	42.5	18.5	16	M5	2.9	0U
7S		90	70	105	81	6	6	12	Through hole		M5	42.5	18.5	19	M5	2.9	7S
2T		90	70	105	81	6	8	12	Through hole		M6	42.5	18.5	14	M4	2.8	2T
7P		90	70	105	81	6	6	12	Through hole		M6	42.5	18.5	16	M5	2.9	7P
1G		90	70	105	81	6	6	12	Through hole		M6	42.5	18.5	19	M5	2.9	1G
2J	165	100	80	120	90	5	21.5	12	Through hole		M6	56	32	10	M4	3.0	2J
0V[Note3]		100	80	120	90	5	19.5	12	Through hole		M6	56	30	14	M4	3.0	0V[Note3]
8E		100	80	120	90	5	19.5	12	Through hole		M6	56	32	16	M5	3.0	8E
7A		115	95	135	100	6	19.5	16	Through hole		M8	56	32	16	M5	3.1	7A
7R	168	145	110	165	120	7	22.5	16	Through hole		M8	59	35	16	M5	3.2	7R
7X		145	110	165	120	7	22.5	16	Through hole		M8	59	35	19	M5	3.2	7X
7Z	203	145	110	165	120	7	42	16	Through hole		M8	71	56.5	24	M6	3.7	7Z

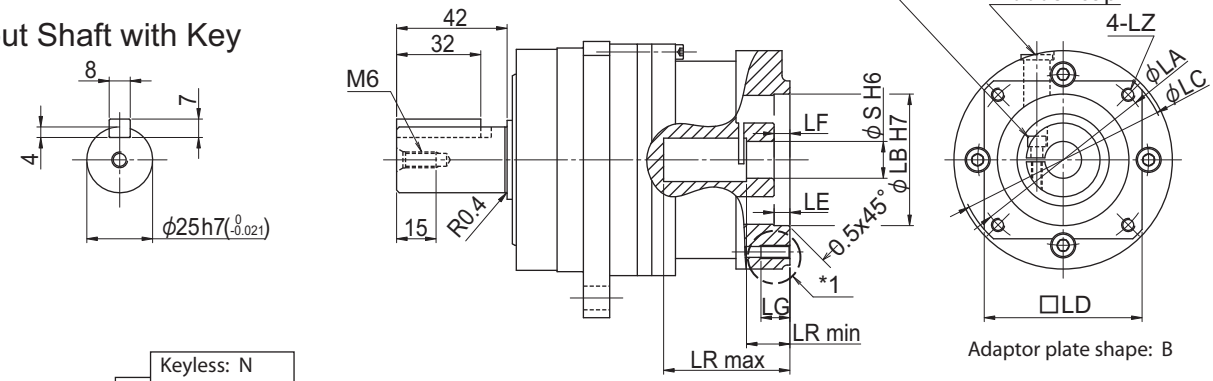
Note 1: Dimension of shaft end key: Dimension tolerance conforms to JIS B 1301-1996 "Parallel Key."
2: Dimension of coupling of motor flange code (0V) includes tolerance (+0.012 ~ +0.023)
3: Dimensions and mass shown in the above figures are subject to change without prior notification.

Frame Size: P120
Reduction Ratio: 1/33
Solid Shaft

Output Shaft Keyless



Output Shaft with Key



Nomenclature
ANFX-P120

- Keyless: N / With key: W
- Output shaft type
- Motor flange code
- Backlash
- Reduction ratio (33)
- 3 min: L3 / 15 min: LD

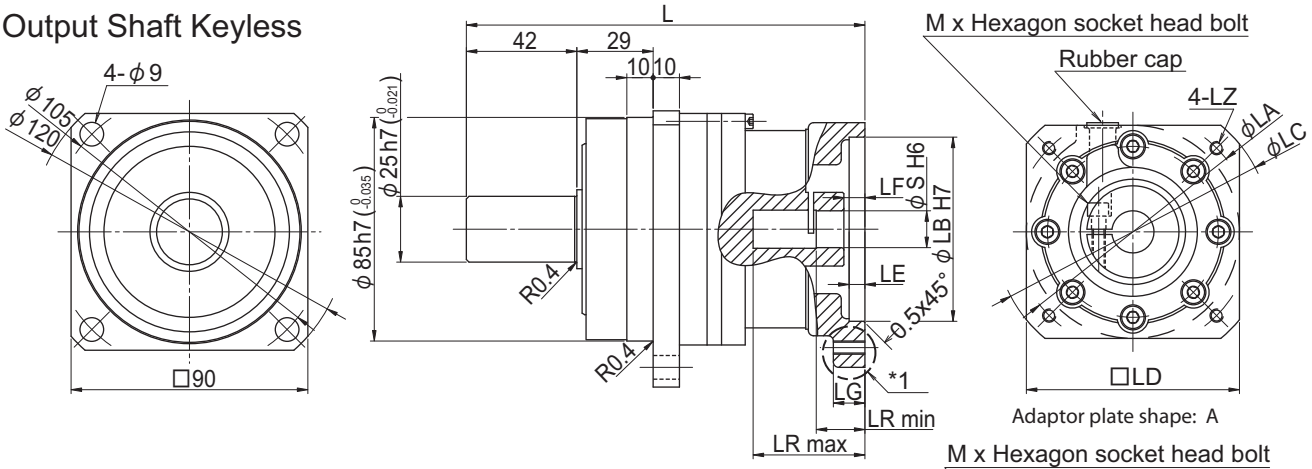
Motor flange code	L	Dimension LA	LB	LC	LD	LE	LF	LG	*1 Shape	Adaptor plate shape	LZ	LR max	LR min	S	M	Mass [kg]	Motor flange code
2P	149.5	70	50	80	60	6	6	9	Useful thread length	B	M4	40.5	16.5	14	M4	2.9	2P
2R		70	50	80	60	6	6	11	Useful thread length		M5	40.5	16.5	14	M4	2.9	2R
8B	151.5	90	70	105	81	6	8	12	Through hole	A	M5	42.5	18.5	14	M4	2.9	8B
2T		90	70	105	81	6	8	12	Through hole		M6	42.5	18.5	14	M4	2.9	2T
2J	165	100	80	120	90	5	21.5	12	Through hole		M6	56	32	10	M4	3.0	2J

Note 1: Dimension of shaft end key: Dimension tolerance conforms to JIS B 1301-1996 "Parallel Key."
2: Dimensions and mass shown in the above figures are subject to change without prior notification.

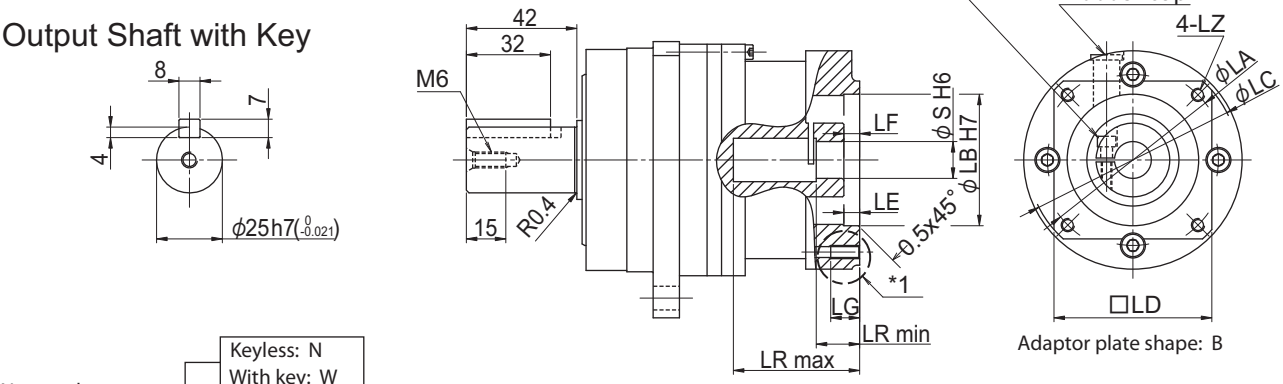
Dimension Drawings

Frame Size: P120
Reduction Ratio: 1/45
Solid Shaft

Output Shaft Keyless



Output Shaft with Key



Nomenclature
ANFX-P120

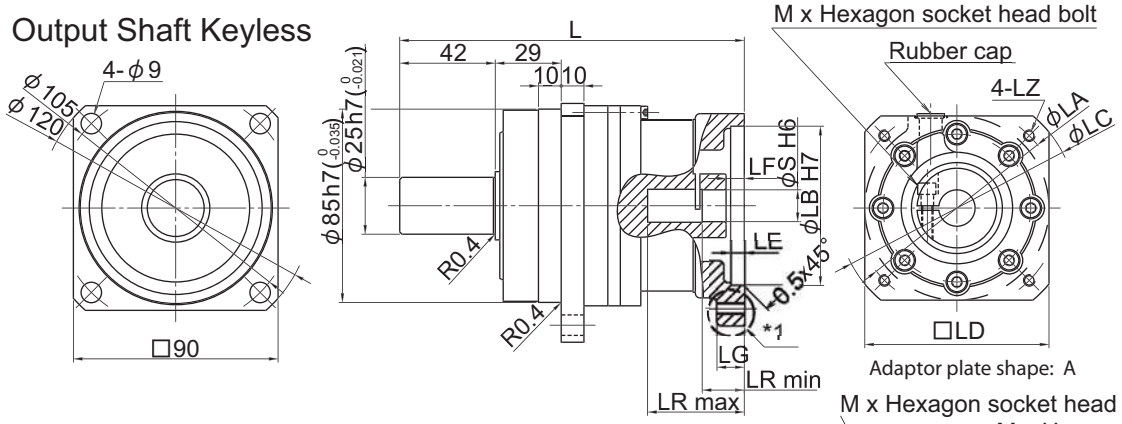
Output shaft type: Keyless: N; With key: W
Motor flange code
Backlash: 3 min: L3; 15 min: LD
Reduction ratio (45)

Motor flange code	L	Dimension LA	LB	LC	LD	LE	LF	LG	*1 Shape	Adaptor plate shape	LZ	LR max	LR min	S	M	Mass [kg]	Motor flange code
2K	149.5	60	50	80	60	6	6	9	Useful thread length	B	M4	40.5	16.5	11	M4	2.9	2K
2L		70	50	80	60	6	6	9	Useful thread length		M4	40.5	16.5	11	M4	2.9	2L
2P		70	50	80	60	6	6	9	Useful thread length		M4	40.5	16.5	14	M4	2.9	2P
2H		70	50	80	60	6	6	11	Useful thread length		M5	40.5	16.5	9	M4	2.9	2H
2R		70	50	80	60	6	6	11	Useful thread length		M5	40.5	16.5	14	M4	2.9	2R
8A	151.5	90	70	105	81	6	8	12	Through hole	A	M5	42.5	18.5	11	M4	2.9	8A
8B		90	70	105	81	6	8	12	Through hole		M5	42.5	18.5	14	M4	2.9	8B
2T		90	70	105	81	6	8	12	Through hole		M6	42.5	18.5	14	M4	2.9	2T
2J	165	100	80	120	90	5	21.5	12	Through hole		M6	56	32	10	M4	3.0	2J

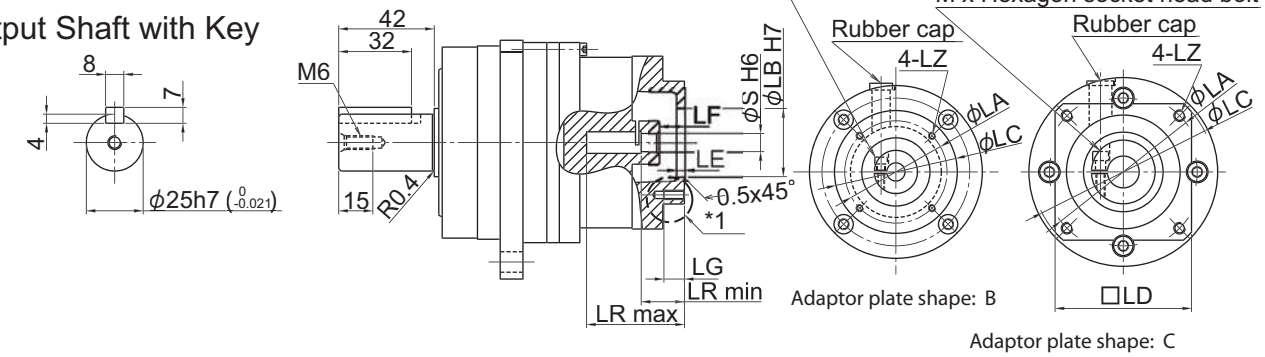
Note 1: Dimension of shaft end key: Dimension tolerance conforms to JIS B 1301-1996 "Parallel Key."
2: Dimensions and mass shown in the above figures are subject to change without prior notification.

Frame Size: P120
Reduction Ratio: 1/81
Solid Shaft

Output Shaft Keyless



Output Shaft with Key



Nomenclature
ANFX-P120

Keyless: N
With key: W
Output shaft type
Motor flange code
Backlash
Reduction ratio (81)
3 min: L3
15 min: LD

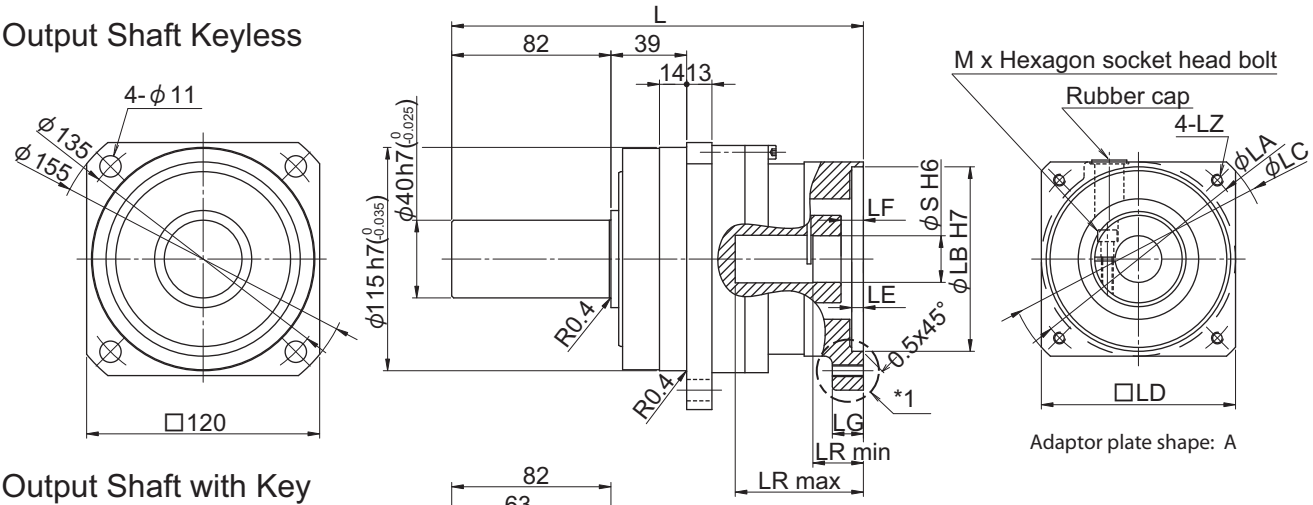
Motor flange code	L	Dimension LA	LB	LC	LD	LE	LF	LG	*1 Shape	Adaptor plate shape	LZ	LR max	LR min	S	M	Mass [kg]	Motor flange code
2C	152	45	30	54	-	4	11	7	Useful thread length	B	M3	43	19	8	M3	2.8	2C
2D		46	30	54	-	4	11	9	Useful thread length		M4	43	19	8	M3	2.8	2D
2E	149.5	60	50	80	60	6	8.5	9	Useful thread length	C	M4	40.5	16.5	8	M3	2.9	2E
2K		60	50	80	60	6	6	9	Useful thread length		M4	40.5	16.5	11	M4	2.9	2K
2F		70	50	80	60	6	8.5	9	Useful thread length		M4	40.5	16.5	8	M3	2.9	2F
2G		70	50	80	60	6	8.5	11	Useful thread length		M5	40.5	16.5	8	M3	2.9	2G
2H		70	50	80	60	6	6	11	Useful thread length		M5	40.5	16.5	9	M4	2.9	2H
2R		70	50	80	60	6	6	11	Useful thread length	A	M5	40.5	16.5	14	M4	2.9	2R
2T	151.5	90	70	105	81	6	8	12	Through hole		M6	42.5	18.5	14	M4	2.9	2T

Note 1: Dimension of shaft end key: Dimension tolerance conforms to JIS B 1301-1996 "Parallel Key."
2: Dimensions and mass shown in the above figures are subject to change without prior notification.

Dimension Drawings

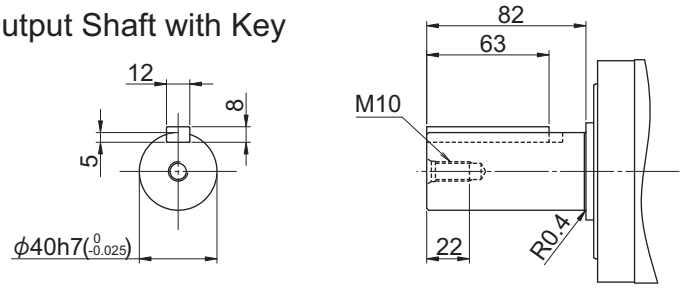
Frame Size: P130
Reduction Ratio: 1/3.7
Flange Shaft

Output Shaft Keyless



Adaptor plate shape: A

Output Shaft with Key



Nomenclature
ANFX-P130

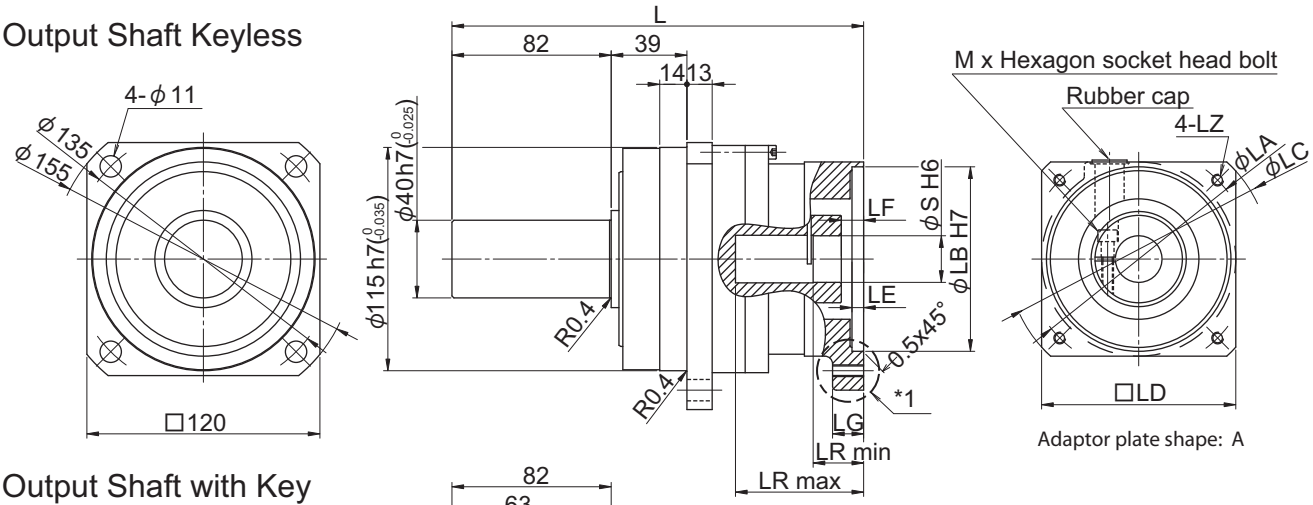
Keyless: N
With key: W
Output shaft type
Motor flange code
Backlash
Reduction ratio (3.7)
3 min: L3
15 min: LD

Motor flange code	L	Dimension LA	LB	LC	LD	LE	LF	LG	*1 Shape	Adaptor plate shape	LZ	LR max	LR min	S	M	Mass [kg]	Motor flange code
1S	220	145	110	165	120	7	19.5	16	Through hole	A	M8	74	34	22	M6	6.9	1S
7Z		145	110	165	120	7	19.5	16	Through hole		M8	74	34	24	M6	6.8	7Z
1T		145	110	165	120	7	19.5	16	Through hole		M8	74	34	28	M6	6.7	1T
0X Note3	265.5	200	114.3	230	180	6	41.5	24	Through hole		M12	81	60	35	M8	8.4	0X Note3

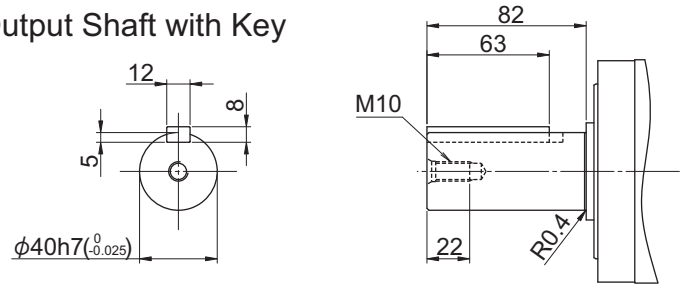
Note 1: Dimension of shaft end key: Dimension tolerance conforms to JIS B 1301-1996 "Parallel Key."
2: Dimension of coupling of motor flange code (0V) includes tolerance (+0.010 ~ +0.026)
3: Dimensions and mass shown in the above figures are subject to change without prior notification.

Frame Size: P130
Reduction Ratio: 1/5
Flange Shaft

Output Shaft Keyless



Output Shaft with Key



Nomenclature
ANFX-P130

Keyless: N
With key: W
Output shaft type
Motor flange code
Backlash
Reduction ratio (5)
3 min: L3
15 min: LD

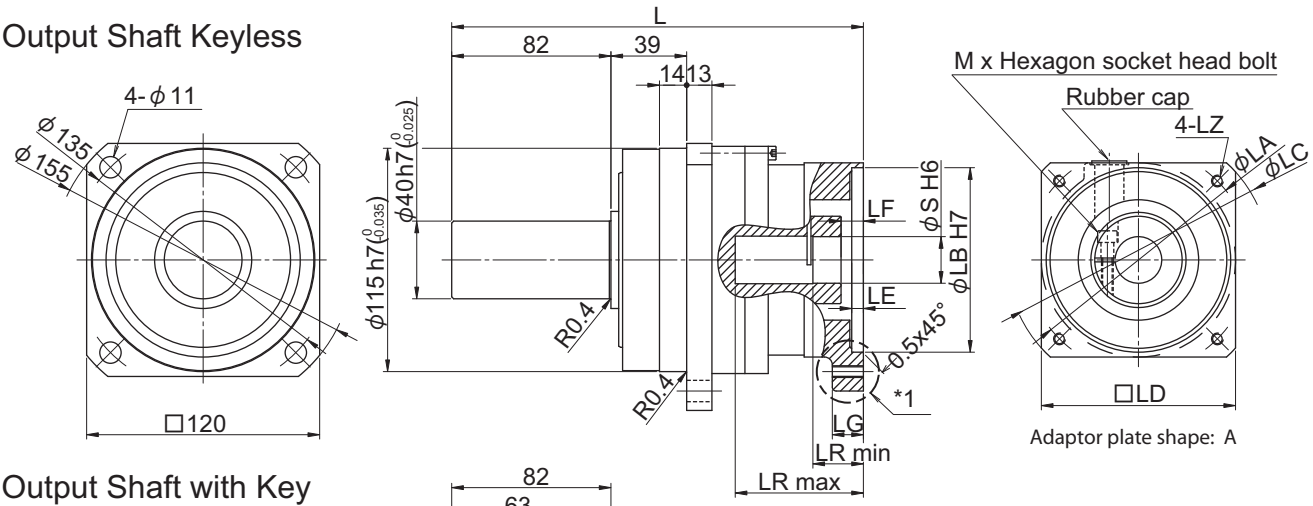
Motor flange code	L	Dimension LA	LB	LC	LD	LE	LF	LG	Shape *1	Adaptor plate shape	LZ	LR max	LR min	S	M	Mass [kg]	Motor flange code
1S	220	145	110	165	120	7	19.5	16	Through hole	A	M8	74	34	22	M6	6.9	1S
7Z		145	110	165	120	7	19.5	16	Through hole		M8	74	34	24	M6	6.8	7Z
1T		145	110	165	120	7	19.5	16	Through hole		M8	74	34	28	M6	6.7	1T
0X Note3	265.5	200	114.3	230	180	6	41.5	24	Through hole		M12	81	60	35	M8	8.4	0X Note3

Note 1: Dimension of shaft end key: Dimension tolerance conforms to JIS B 1301-1996 "Parallel Key."
2: Dimension of coupling of motor flange code (0V) includes tolerance (+0.010 ~ +0.026)
3: Dimensions and mass shown in the above figures are subject to change without prior notification.

Dimension Drawings

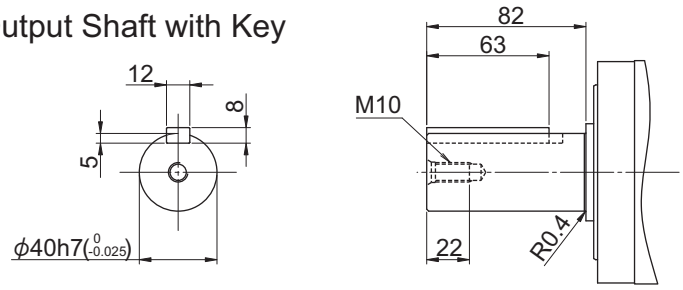
Frame Size: P130
Reduction Ratio: 1/9
Flange Shaft

Output Shaft Keyless



Adaptor plate shape: A

Output Shaft with Key



Nomenclature
ANFX-P130

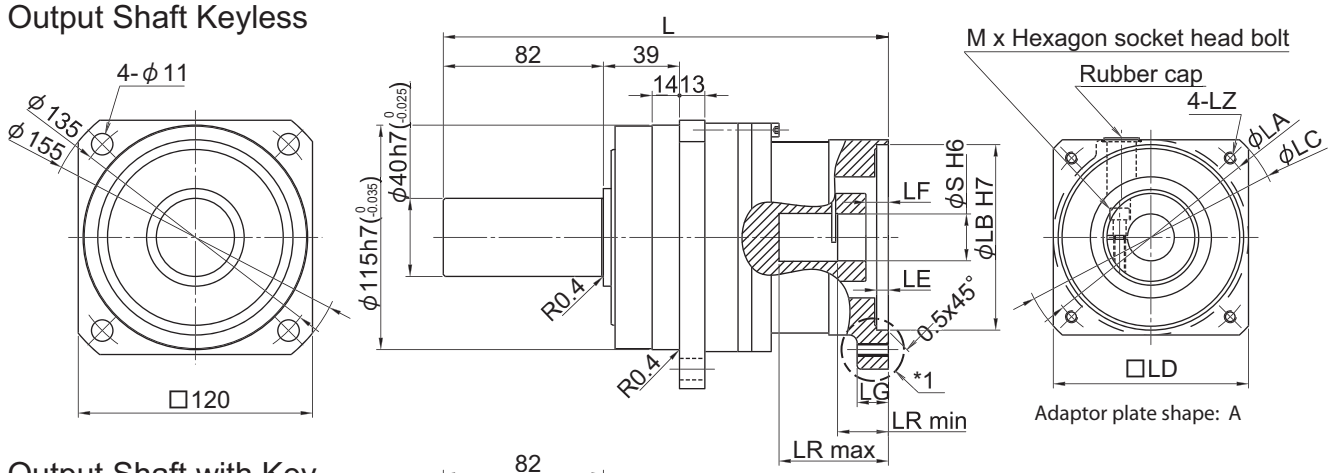
Keyless: N
With key: W
Output shaft type
Motor flange code
Backlash
Reduction ratio (9)
3 min: L3
15 min: LD

Motor flange code	L	Dimension LA	LB	LC	LD	LE	LF	LG	*1 Shape	Adaptor plate shape	LZ	LR max	LR min	S	M	Mass [kg]	Motor flange code
1L	212	115	95	135	100	6	11.5	16	Through hole	A	M6	66	26	24	M6	6.5	1L
7B		115	95	135	100	6	13.5	16	Through hole		M8	66	26	19	M5	6.5	7B
0W		115	95	135	100	6	11.5	16	Through hole		M8	66	26	22	M6	6.5	0W
7Y		115	95	135	100	6	11.5	16	Through hole		M8	66	26	24	M6	6.5	7Y
0Y	220	135	110	165	120	7	19.5	16	Through hole		M8	74	34	22	M6	7.0	0Y
7X		145	110	165	120	7	21.5	16	Through hole		M8	74	34	19	M5	7.0	7X
1S		145	110	165	120	7	19.5	16	Through hole		M8	74	34	22	M6	7.0	1S
7Z		145	110	165	120	7	19.5	16	Through hole		M8	74	34	24	M6	6.9	7Z
1T		145	110	165	120	7	19.5	16	Through hole		M8	74	34	28	M6	6.8	1T
0X Note3	265.5	200	114.3	230	180	6	41.5	24	Through hole		M12	81	60	35	M8	8.5	0X Note3

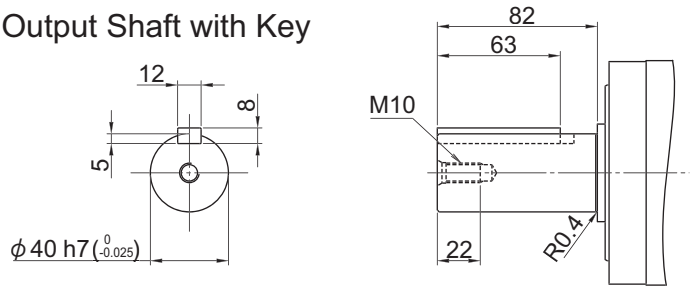
Note 1: Dimension of shaft end key: Dimension tolerance conforms to JIS B 1301-1996 "Parallel Key."
2: Dimension of coupling of motor flange code (0V) includes tolerance (+0.010 ~ +0.026)
3: Dimensions and mass shown in the above figures are subject to change without prior notification.

Frame Size: P130
Reduction Ratio: 1/11
Flange Shaft

Output Shaft Keyless



Output Shaft with Key



Nomenclature
ANFX-P130

- Output shaft type: Keyless: N / With key: W
- Motor flange code
- Backlash: 3 min: L3 / 15 min: LD
- Reduction ratio (11)

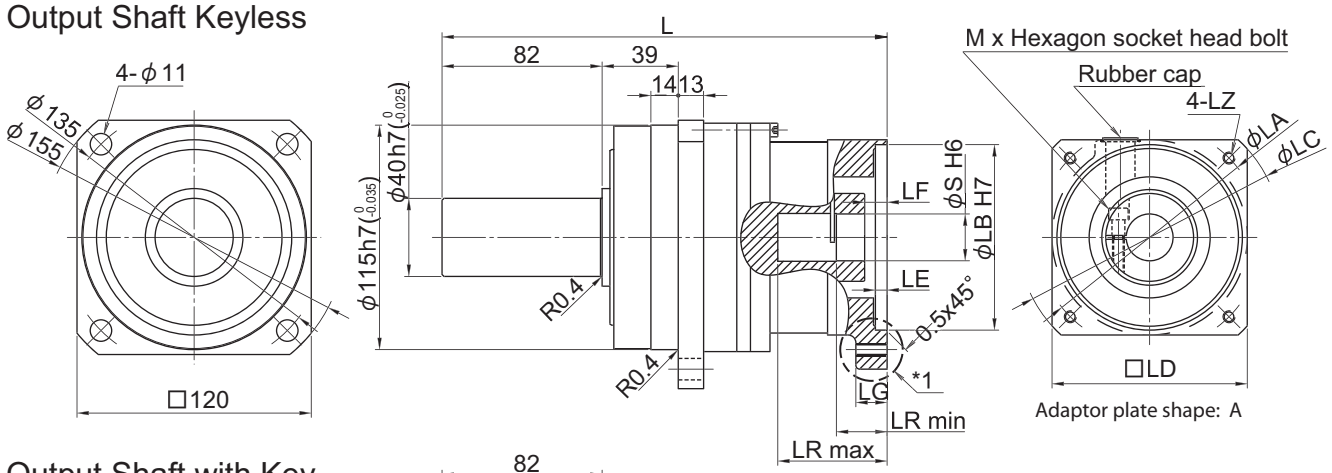
Motor flange code	L	Dimension														Mass [kg]	Motor flange code
		LA	LB	LC	LD	LE	LF	LG *1		Adaptor plate shape	LZ	LR		S	M		
									Shape			max	min				
1L	228	115	95	135	100	6	11.5	16	Through hole	A	M6	56	26	24	M6	7.4	1L
7B		115	95	135	100	6	13.5	16	Through hole		M8	56	26	19	M5	7.3	7B
0W		115	95	135	100	6	11.5	16	Through hole		M8	56	26	22	M6	7.4	0W
7Y		115	95	135	100	6	11.5	16	Through hole		M8	56	26	24	M6	7.4	7Y
0Y	236	135	110	165	120	7	19.5	16	Through hole		M8	74	34	22	M6	7.9	0Y
7X		145	110	165	120	7	21.5	16	Through hole		M8	64	34	19	M5	7.7	7X
1S		145	110	165	120	7	19.5	16	Through hole		M8	64	34	22	M6	7.0	1S
7Z		145	110	165	120	7	19.5	16	Through hole		M8	64	34	24	M6	7.7	7Z

Note 1: Dimension of shaft end key: Dimension tolerance conforms to JIS B 1301-1996 "Parallel Key."
2: Dimensions and mass shown in the above figures are subject to change without prior notification.

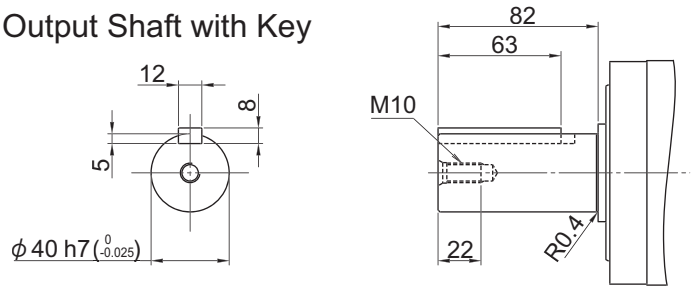
Dimension Drawings

Frame Size: P130
Reduction Ratio: 1/15
Flange Shaft

Output Shaft Keyless



Output Shaft with Key



Nomenclature
ANFX-P130

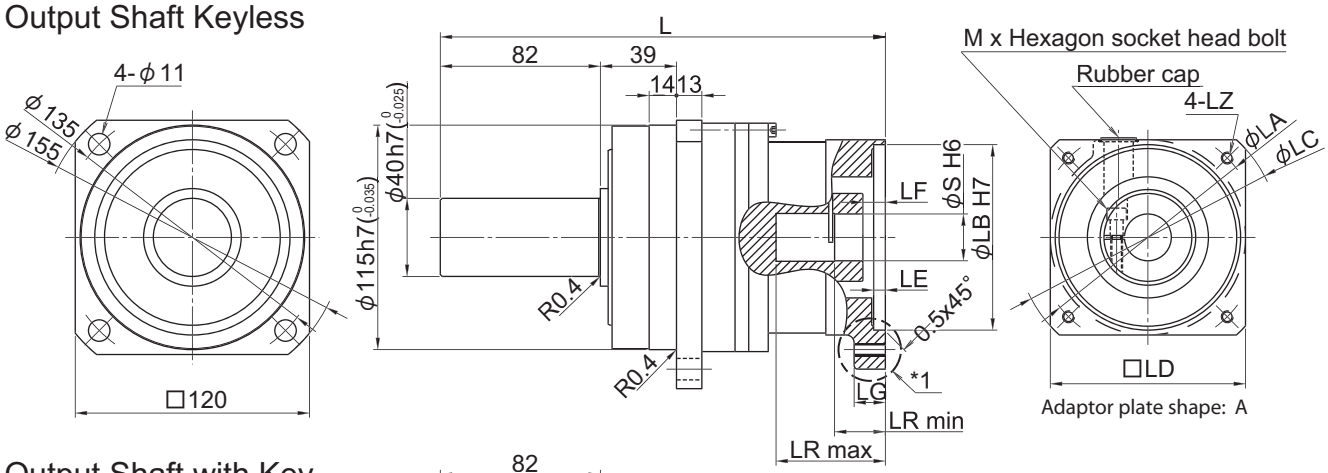
- Output shaft type: Keyless: N / With key: W
- Motor flange code
- Backlash: 3 min: L3 / 15 min: LD
- Reduction ratio (15)

Motor flange code	L	Dimension LA	LB	LC	LD	LE	LF	LG	*1 Shape	Adaptor plate shape	LZ	LR max	LR min	S	M	Mass [kg]	Motor flange code
1L	228	115	95	135	100	6	11.5	16	Through hole	A	M6	56	26	24	M6	7.4	1L
7B		115	95	135	100	6	13.5	16	Through hole		M8	56	26	19	M5	7.3	7B
0W		115	95	135	100	6	11.5	16	Through hole		M8	56	26	22	M6	7.4	0W
7Y		115	95	135	100	6	11.5	16	Through hole		M8	56	26	24	M6	7.4	7Y
0Y	236	135	110	165	120	7	19.5	16	Through hole		M8	74	34	22	M6	7.9	0Y
7X		145	110	165	120	7	21.5	16	Through hole		M8	64	34	19	M5	7.7	7X
1S		145	110	165	120	7	19.5	16	Through hole		M8	64	34	22	M6	7.0	1S
7Z		145	110	165	120	7	19.5	16	Through hole		M8	64	34	24	M6	7.7	7Z

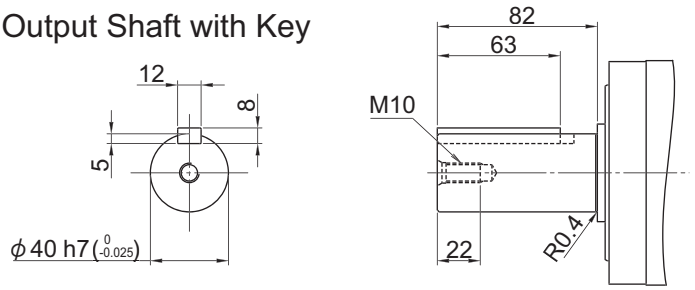
Note 1: Dimension of shaft end key: Dimension tolerance conforms to JIS B 1301-1996 "Parallel Key."
2: Dimensions and mass shown in the above figures are subject to change without prior notification.

Frame Size: P130
Reduction Ratio: 1/21
Flange Shaft

Output Shaft Keyless



Output Shaft with Key

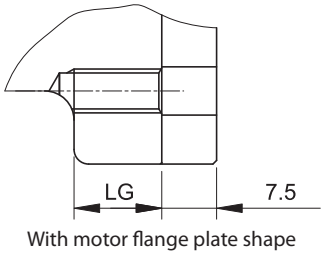


Nomenclature
ANFX-P130

- Output shaft type: Keyless: N / With key: W
- Motor flange code
- Backlash: 3 min: L3 / 15 min: LD
- Reduction ratio (21)

Motor flange code	L	Dimension														Mass [kg]	Motor flange code
		LA	LB	LC	LD	LE	LF	LG	*1 Shape	Adaptor plate shape	LZ	LR max	LR min	S	M		
8E[Note3]	228	100	80	120	90	5	13.5	12	Through hole	A	M6	56	26	16	M5	7.4	8E[Note3]
7V[Note3]		100	80	120	90	5	13.5	12	Through hole		M6	56	26	19	M5	7.3	7V[Note3]
1L		115	95	135	100	6	11.5	16	Through hole		M6	56	26	24	M6	7.3	1L
7B		115	95	135	100	6	13.5	16	Through hole		M8	56	26	19	M5	7.3	7B
0W		115	95	135	100	6	11.5	16	Through hole		M8	56	26	22	M6	7.3	0W
7Y		115	95	135	100	6	11.5	16	Through hole		M8	56	26	24	M6	7.3	7Y
0Y	236	135	110	165	120	7	19.5	16	Through hole		M8	74	34	22	M6	7.9	0Y
7X		145	110	165	120	7	21.5	16	Through hole		M8	64	34	19	M5	7.6	7X
1S		145	110	165	120	7	19.5	16	Through hole		M8	64	34	22	M6	7.6	1S
7Z		145	110	165	120	7	19.5	16	Through hole		M8	64	34	24	M6	7.7	7Z

Note 1: Dimension of shaft end key: Dimension tolerance conforms to JIS B 1301-1996 "Parallel Key."
2: Shape of flange plate for motor
3: Dimensions and mass shown in the above figures are subject to change without prior notification.

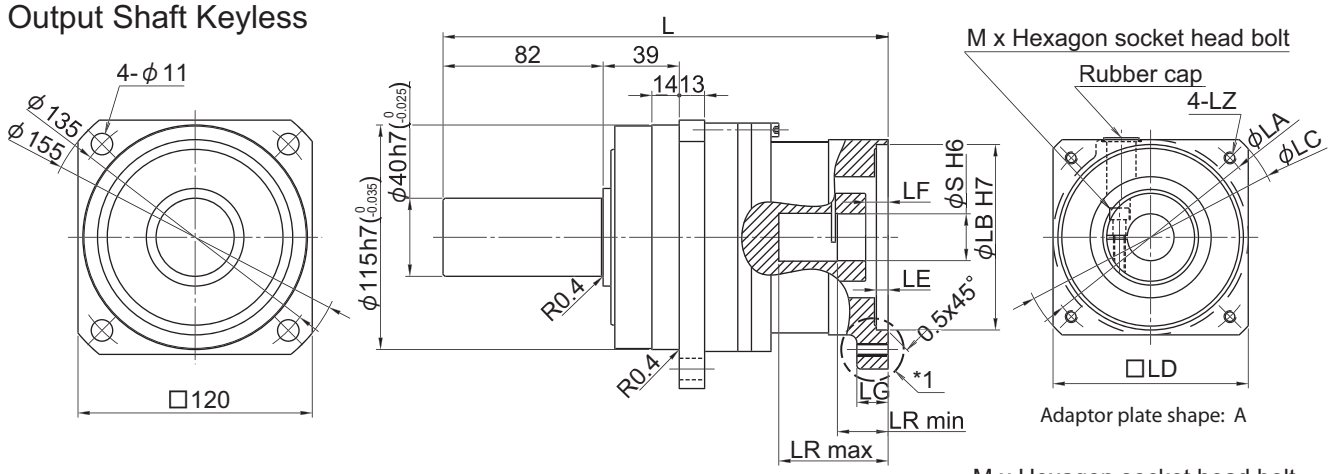


With motor flange plate shape

Dimension Drawings

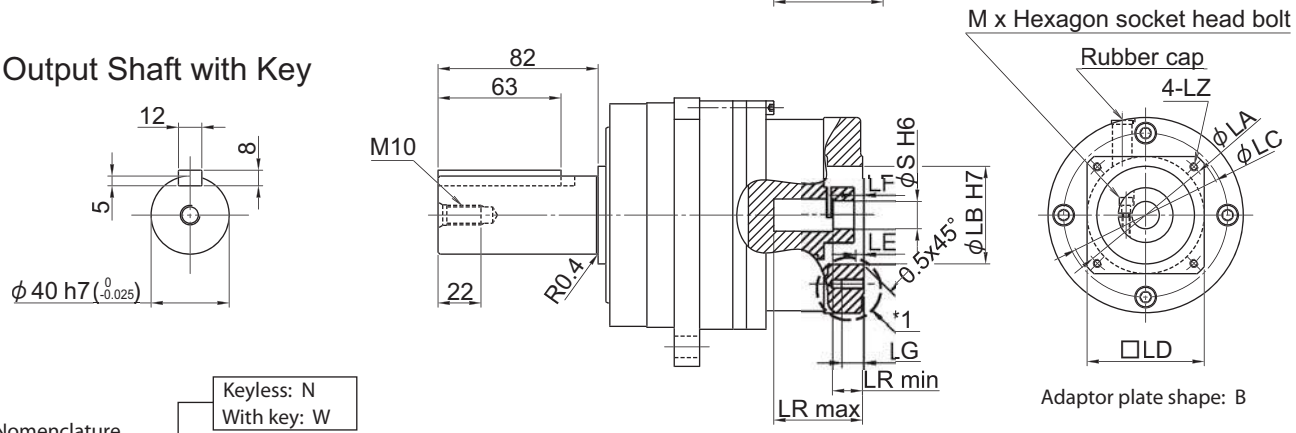
Frame Size: P130
Reduction Ratio: 1/33
Flange Shaft

Output Shaft Keyless



Adaptor plate shape: A

Output Shaft with Key



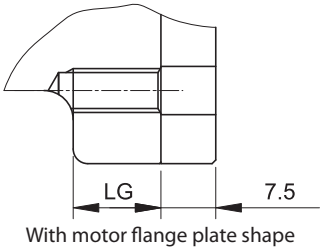
Adaptor plate shape: B

Nomenclature
ANFX-P130

- Output shaft type: Keyless: N / With key: W
- Motor flange code
- Backlash: 3 min: L3 / 15 min: LD
- Reduction ratio (33)

Motor flange code	L	Dimension LA	LB	LC	LD	LE	LF	LG	*1 Shape	Adaptor plate shape	LZ	LR max	LR min	S	M	Mass [kg]	Motor flange code
2R	217.5	70	50	80	60	4	5	11	Useful thread length		M5	45.5	15.5	14	M4	7.3	2R
0U	220.5	90	70	120	90	6	6	11	Useful thread length		M5	48.5	18.5	16	M5	7.3	0U
7S		90	70	120	90	6	6	11	Useful thread length	B	M5	48.5	18.5	19	M5	7.3	7S
7P		90	70	120	90	6	6	13	Useful thread length		M6	48.5	18.5	16	M5	7.3	7P
1G		90	70	120	90	6	6	13	Useful thread length		M6	48.5	18.5	19	M5	7.3	1G
2J Note3	228	100	80	120	90	5	15.5	12	Through hole		M6	56	26	10	M4	7.4	2J Note3
0V Note3 Note4		100	80	120	90	5	15.5	12	Through hole		M6	56	26	14	M4	7.4	0V Note3 Note4
8E Note3		100	80	120	90	5	13.5	12	Through hole		M6	56	26	16	M5	7.4	8E Note3
7A		115	95	135	100	6	13.5	16	Through hole	A	M8	56	26	16	M5	7.4	7A
7R	236	145	110	165	120	7	21.5	16	Through hole		M8	64	34	16	M5	7.7	7R
7X		145	110	165	120	7	21.5	16	Through hole		M8	64	34	19	M5	7.7	7X
7Z		145	110	165	120	7	21.5	16	Through hole		M8	64	36	24	M6	7.7	7Z

Note 1: Dimension of shaft end key: Dimension tolerance conforms to JIS B 1301-1996 "Parallel Key."
2: Dimension of coupling of motor flange code (0V) includes tolerance (+0.012 ~ +0.023)
3: Shape of flange plate for motor
4: Dimensions and mass shown in the above figures are subject to change without prior notification.

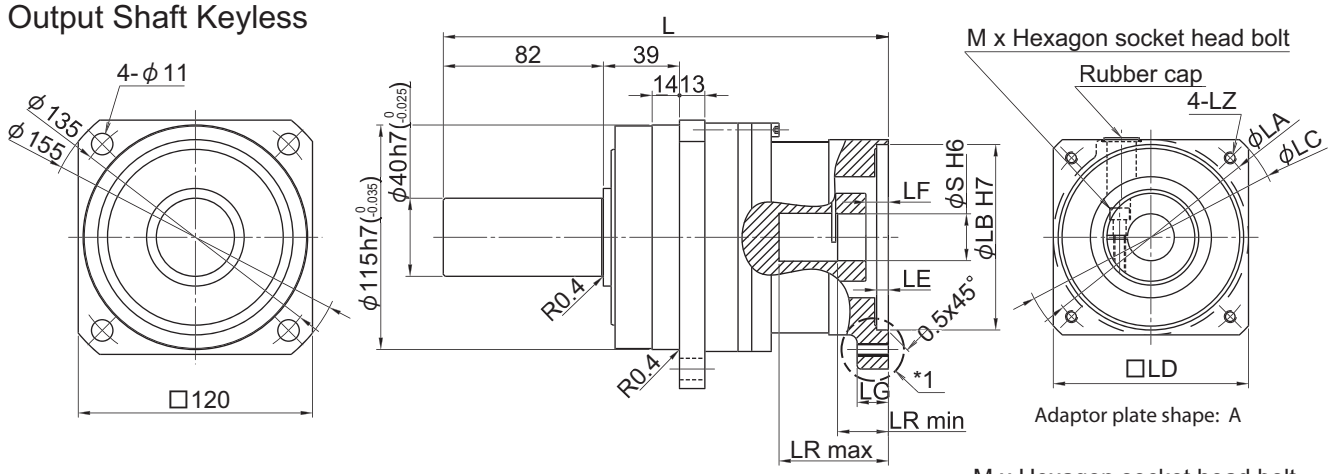


With motor flange plate shape

Dimension Drawings

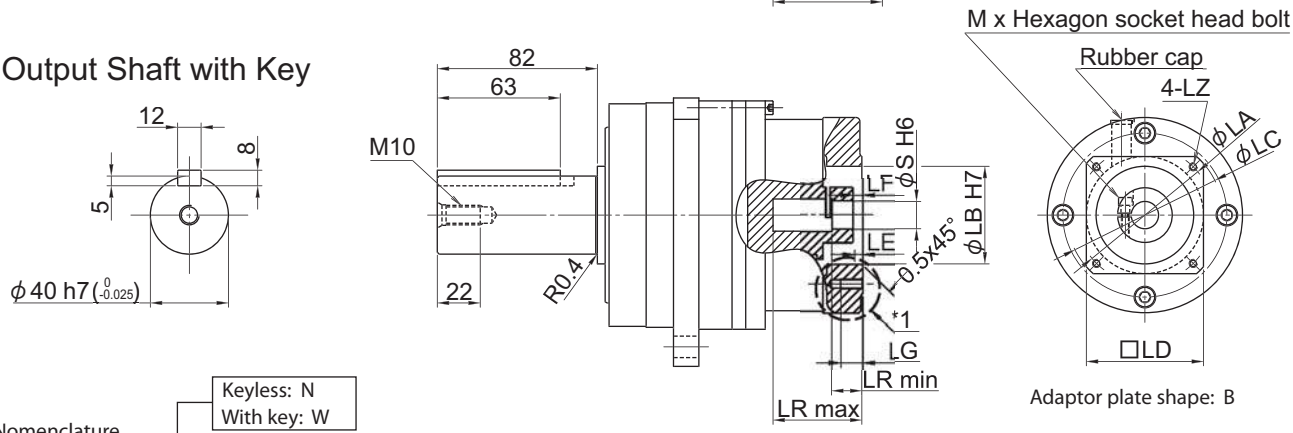
Frame Size: P130
Reduction Ratio: 1/45
Flange Shaft

Output Shaft Keyless



Adaptor plate shape: A

Output Shaft with Key

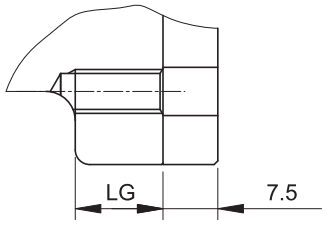


Adaptor plate shape: B

Nomenclature
ANFX-P130 — Output shaft type (Keyless: N / With key: W) — Motor flange code — Backlash — Reduction ratio (45)
Backlash: 3 min: L3 / 15 min: LD

Motor flange code	L	LA	LB	LC	LD	LE	LF	LG	Shape	Adaptor plate shape	LZ	LR max	LR min	S	M	Mass [kg]	Motor flange code
2R	217.5	70	50	80	60	4	5	11	Useful thread length		M5	45.5	15.5	14	M4	7.3	2R
0U		90	70	120	90	6	6	11	Useful thread length		M5	48.5	18.5	16	M5	7.3	0U
7S	220.5	90	70	120	90	6	6	11	Useful thread length	B	M5	48.5	18.5	19	M5	7.3	7S
7P		90	70	120	90	6	6	13	Useful thread length		M6	48.5	18.5	16	M5	7.3	7P
1G		90	70	120	90	6	6	13	Useful thread length		M6	48.5	18.5	19	M5	7.3	1G
2J Note3		100	80	120	90	5	15.5	12	Through hole		M6	56	26	10	M4	7.4	2J Note3
0V Note3 Note4	228	100	80	120	90	5	15.5	12	Through hole		M6	56	26	14	M4	7.4	0V Note3 Note4
8E Note3		100	80	120	90	5	13.5	12	Through hole		M6	56	26	16	M5	7.4	8E Note3
7A		115	95	135	100	6	13.5	16	Through hole	A	M8	56	26	16	M5	7.4	7A
7R		145	110	165	120	7	21.5	16	Through hole		M8	64	34	16	M5	7.7	7R
7X	236	145	110	165	120	7	21.5	16	Through hole		M8	64	34	19	M5	7.7	7X
7Z		145	110	165	120	7	21.5	16	Through hole		M8	64	36	24	M6	7.7	7Z

Note 1: Dimension of shaft end key: Dimension tolerance conforms to JIS B 1301-1996 "Parallel Key."
2: Dimension of coupling of motor flange code (0V) includes tolerance (+0.012 ~ +0.023)
3: Shape of flange plate for motor
4: Dimensions and mass shown in the above figures are subject to change without prior notification.

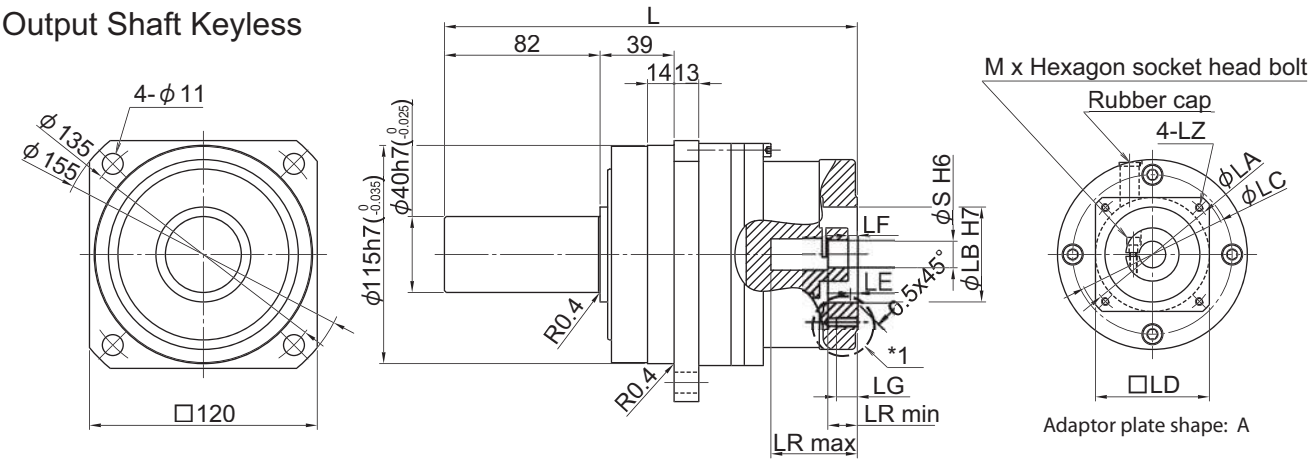


With motor flange plate shape

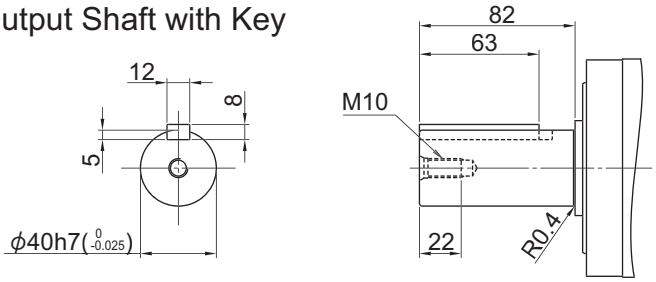
Dimension Drawings

Frame Size: P130
Reduction Ratio: 1/81
Flange Shaft

Output Shaft Keyless



Output Shaft with Key

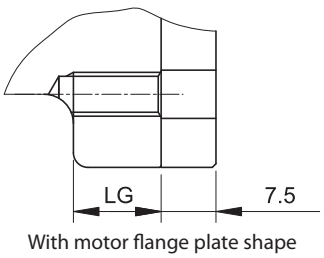


Nomenclature
ANFX-P130

- Output shaft type: Keyless: N / With key: W
- Motor flange code
- Backlash: 3 min: L3 / 15 min: LD
- Reduction ratio (81)

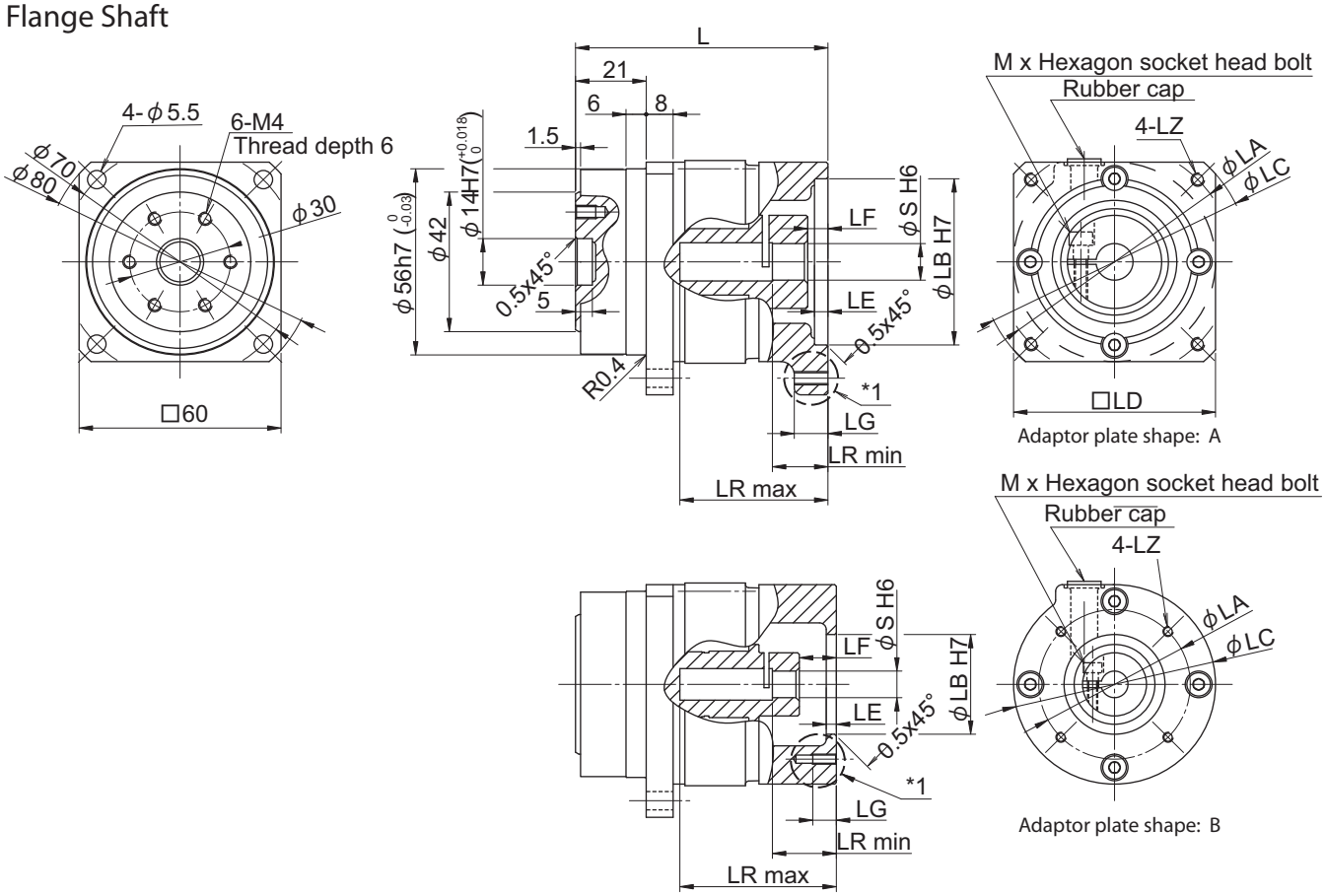
Motor flange code	L	Dimension LA	LB	LC	LD	LE	LF	LG	*1 Shape	Adaptor plate shape	LZ	LR max	LR min	S	M	Mass [kg]	Motor flange code
2L	217.5	70	50	80	60	4	5	9	Useful thread length	A	M4	45.5	15.5	11	M4	7.3	2L
2P		70	50	80	60	4	5	9	Useful thread length		M4	45.5	15.5	14	M4	7.3	2P
2H		70	50	80	60	4	5	11	Useful thread length		M5	45.5	15.5	9	M4	7.3	2H
2R		70	50	80	60	4	5	11	Useful thread length		M5	45.5	15.5	14	M4	7.3	2R
8A	220.5	90	70	120	90	6	8	11	Useful thread length		M5	48.5	18.5	11	M4	7.4	8A
8B		90	70	120	90	6	8	11	Useful thread length		M5	48.5	18.5	14	M4	7.4	8B
2T		90	70	120	90	6	8	13	Useful thread length		M6	48.5	18.5	14	M4	7.4	2T
2J	228	100	80	120	90	5	15.5	12	Through hole		M6	56	26	10	M4	7.4	2J

Note 1: Dimension of shaft end key: Dimension tolerance conforms to JIS B 1301-1996 "Parallel Key."
2: Shape of flange plate for motor
3: Dimensions and mass shown in the above figures are subject to change without prior notification.



With motor flange plate shape

Frame Size: P110
Reduction Ratio: 1/3.7
Flange Shaft



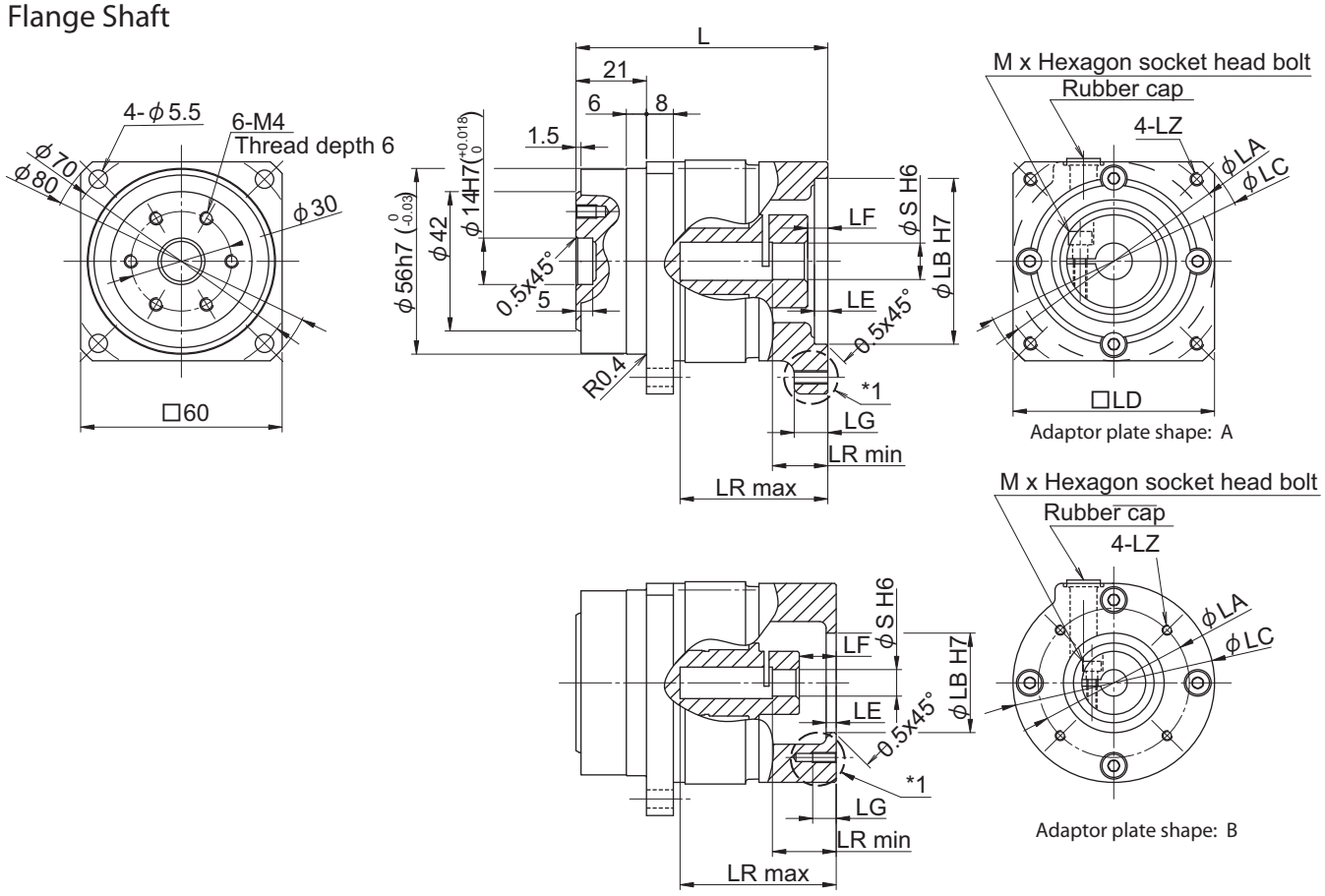
Nomenclature
ANFX-P110F [Motor flange code] [Backlash] — Reduction ratio (3.7)
3 min: L3
15 min: LD

Motor flange code	L	Dimension LA	LB	LC	LD	LE	LF	LG	*1 Shape	Adaptor plate shape	LZ	LR max	LR min	S	M	Mass [kg]	Motor flange code
2C	77.5	45	30	60	-	5	11	7	Useful thread length	B	M3	46.5	19	8	M3	0.86	2C
7J		46	30	60	-	5	11	9	Useful thread length		M4	46.5	19	6	M3	0.86	7J
2D		46	30	60	-	5	11	9	Useful thread length		M4	46.5	19	8	M3	0.86	2D
2E	75	60	50	80	60	4	8.5	8	Useful thread length	A	M4	44	16.5	8	M3	0.86	2E
2K		60	50	80	60	4	6	8	Useful thread length		M4	44	16.5	11	M4	0.86	2K
2F		70	50	80	60	4	8.5	10	Through hole		M4	44	16.5	8	M3	0.86	2F
2L		70	50	80	60	4	6	10	Through hole		M4	44	16.5	11	M4	0.86	2L
2P		70	50	80	60	4	6	10	Through hole		M4	44	16.5	14	M4	0.86	2P
2G		70	50	80	60	4	8.5	10	Through hole		M5	44	16.5	8	M3	0.86	2G
2H		70	50	80	60	4	6	10	Through hole		M5	44	16.5	9	M4	0.86	2H
2R		70	50	80	60	4	6	10	Through hole		M5	44	16.5	14	M4	0.86	2R
8A	76.5	90	70	105	80	6	7.5	12	Through hole		M5	45.5	18	11	M4	0.96	8A
8B		90	70	105	80	6	7.5	12	Through hole		M5	45.5	18	14	M4	0.96	8B
2T		90	70	105	80	6	7.5	12	Through hole		M6	45.5	18	14	M4	0.96	2T
2J	82	100	80	120	90	5	13	12	Through hole		M6	51	23.5	10	M4	1.06	2J
8E	98.5	100	80	120	90	6	9.5	12	Through hole		M6	41	22	16	M5	1.26	8E

Note 1: Dimensions and mass shown in the above figures are subject to change without prior notification.

Dimension Drawings

Frame Size: P110
Reduction Ratio: 1/5
Flange Shaft



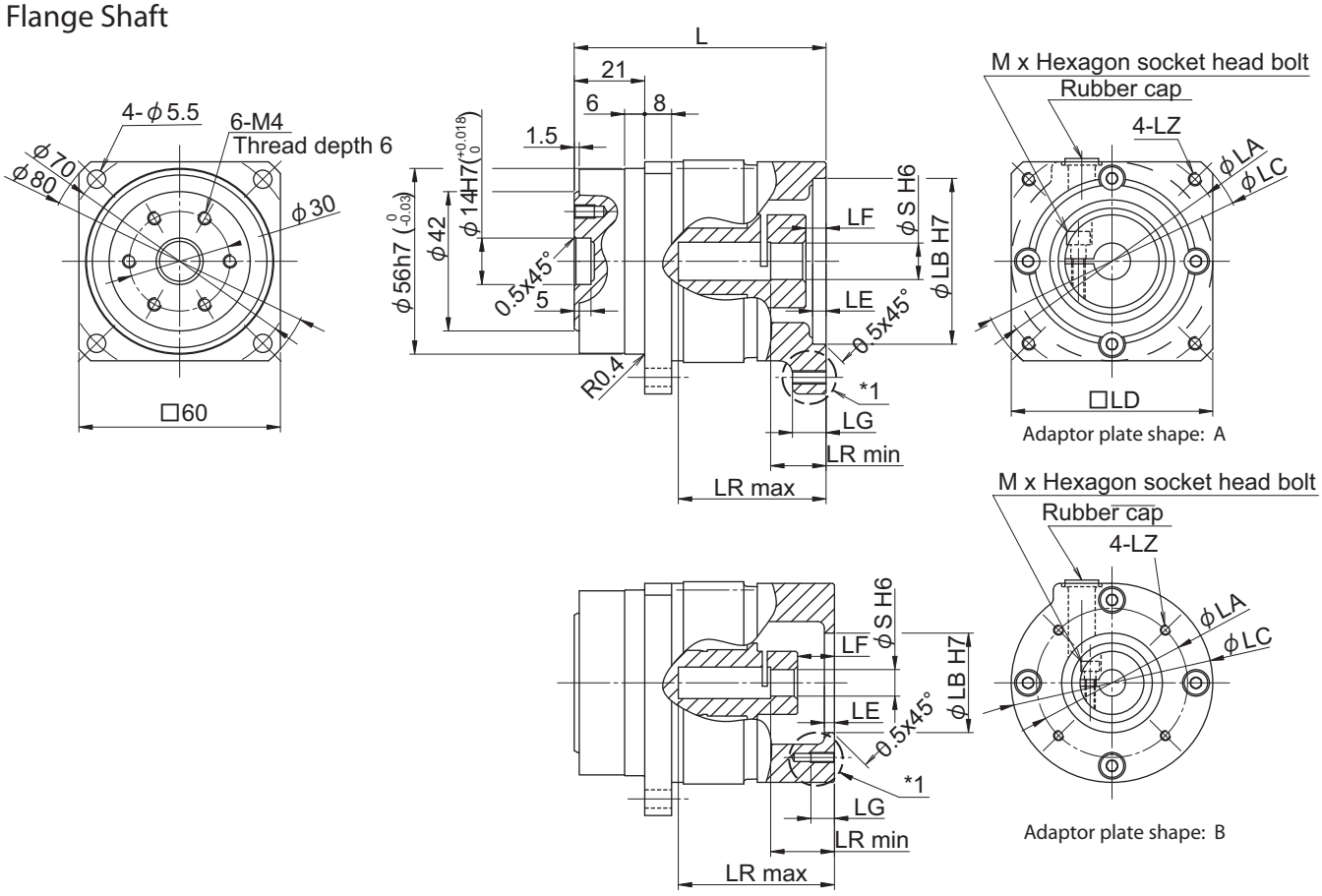
Nomenclature
ANFX-P110F [Motor flange code] [Backlash] — Reduction ratio (5)

3 min: L3
15 min: LD

Motor flange code	L	Dimension LA	LB	LC	LD	LE	LF	LG *1	Shape	Adaptor plate shape	LZ	LR max	LR min	S	M	Mass [kg]	Motor flange code
2C	77.5	45	30	60	-	5	11	7	Useful thread length	B	M3	46.5	19	8	M3	0.86	2C
7J		46	30	60	-	5	11	9	Useful thread length		M4	46.5	19	6	M3	0.86	7J
2D		46	30	60	-	5	11	9	Useful thread length		M4	46.5	19	8	M3	0.86	2D
2E	75	60	50	80	60	4	8.5	8	Useful thread length	A	M4	44	16.5	8	M3	0.86	2E
2K		60	50	80	60	4	6	8	Useful thread length		M4	44	16.5	11	M4	0.86	2K
2F		70	50	80	60	4	8.5	10	Through hole		M4	44	16.5	8	M3	0.86	2F
2L		70	50	80	60	4	6	10	Through hole		M4	44	16.5	11	M4	0.86	2L
2P		70	50	80	60	4	6	10	Through hole		M4	44	16.5	14	M4	0.86	2P
2G		70	50	80	60	4	8.5	10	Through hole		M5	44	16.5	8	M3	0.86	2G
2H		70	50	80	60	4	6	10	Through hole		M5	44	16.5	9	M4	0.86	2H
2R		70	50	80	60	4	6	10	Through hole		M5	44	16.5	14	M4	0.86	2R
8A	76.5	90	70	105	80	6	7.5	12	Through hole		M5	45.5	18	11	M4	0.96	8A
8B		90	70	105	80	6	7.5	12	Through hole		M5	45.5	18	14	M4	0.96	8B
2T		90	70	105	80	6	7.5	12	Through hole		M6	45.5	18	14	M4	0.96	2T
2J	82	100	80	120	90	5	13	12	Through hole		M6	51	23.5	10	M4	1.06	2J
8E	98.5	100	80	120	90	6	9.5	12	Through hole		M6	41	22	16	M5	1.26	8E

Note 1: Dimensions and mass shown in the above figures are subject to change without prior notification.

Frame Size: P110
Reduction Ratio: 1/9
Flange Shaft



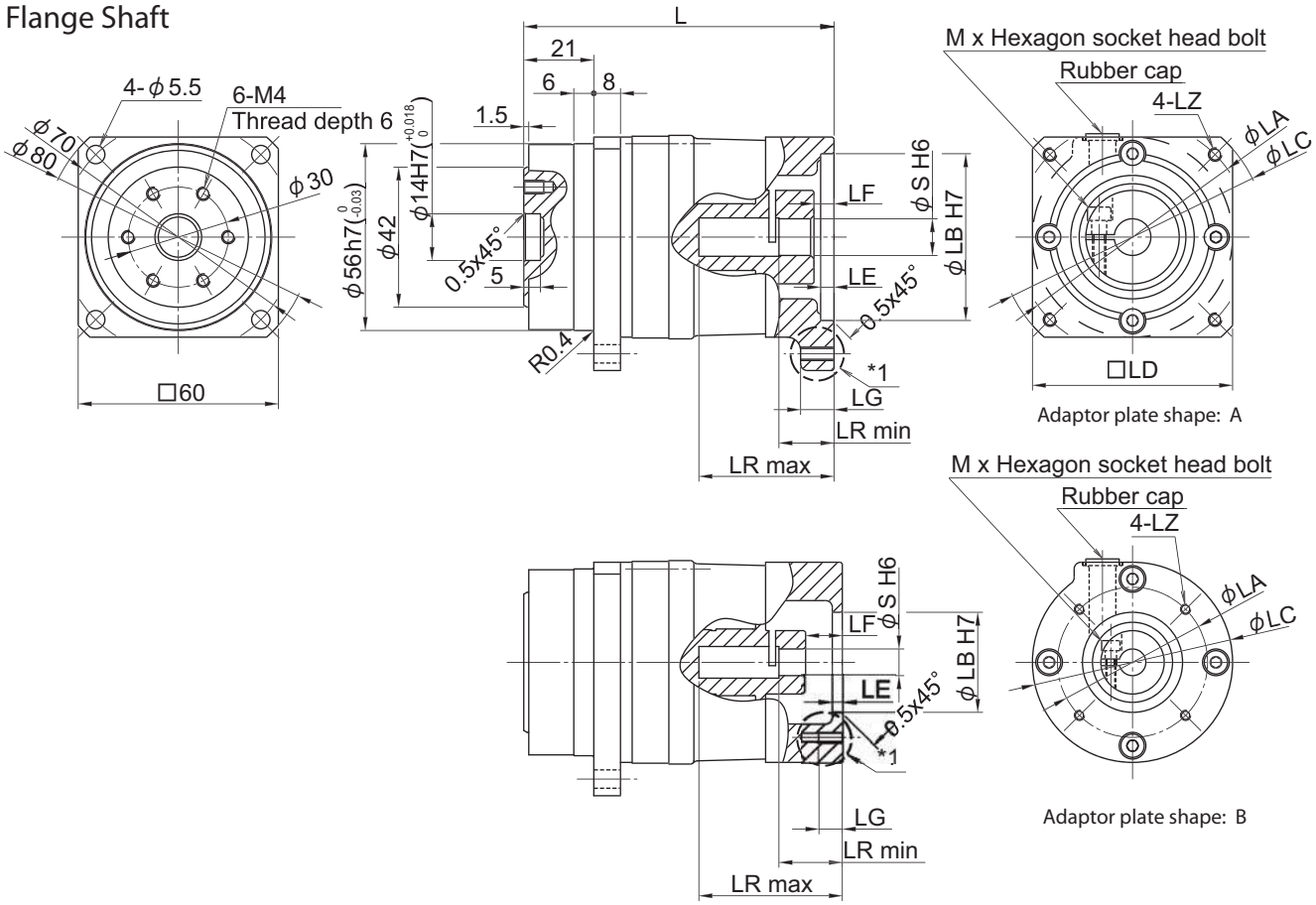
Nomenclature
ANFX-P110F — Motor flange code — Backlash — Reduction ratio (9)
3 min: L3
15 min: LD

Motor flange code	L	Dimension LA	LB	LC	LD	LE	LF	LG	*1 Shape	Adaptor plate shape	LZ	LR max	LR min	S	M	Mass [kg]	Motor flange code
2C	77.5	45	30	60	-	5	11	7	Useful thread length	B	M3	46.5	19	8	M3	0.86	2C
7J		46	30	60	-	5	11	9	Useful thread length		M4	46.5	19	6	M3	0.86	7J
2D		46	30	60	-	5	11	9	Useful thread length		M4	46.5	19	8	M3	0.86	2D
2E	75	60	50	80	60	4	8.5	8	Useful thread length	A	M4	44	16.5	8	M3	0.86	2E
2K		60	50	80	60	4	6	8	Useful thread length		M4	44	16.5	11	M4	0.86	2K
2F		70	50	80	60	4	8.5	10	Through hole		M4	44	16.5	8	M3	0.86	2F
2L		70	50	80	60	4	6	10	Through hole		M4	44	16.5	11	M4	0.86	2L
2P		70	50	80	60	4	6	10	Through hole		M4	44	16.5	14	M4	0.86	2P
2G		70	50	80	60	4	8.5	10	Through hole		M5	44	16.5	8	M3	0.86	2G
2H		70	50	80	60	4	6	10	Through hole		M5	44	16.5	9	M4	0.86	2H
2R		70	50	80	60	4	6	10	Through hole		M5	44	16.5	14	M4	0.86	2R
8A	76.5	90	70	105	80	6	7.5	12	Through hole		M5	45.5	18	11	M4	0.96	8A
8B		90	70	105	80	6	7.5	12	Through hole		M5	45.5	18	14	M4	0.96	8B
2T		90	70	105	80	6	7.5	12	Through hole		M6	45.5	18	14	M4	0.96	2T
2J	82	100	80	120	90	5	13	12	Through hole		M6	51	23.5	10	M4	1.16	2J
8E	98.5	100	80	120	90	6	9.5	12	Through hole		M6	41	22	16	M5	1.26	8E

Note 1: Dimensions and mass shown in the above figures are subject to change without prior notification.

Dimension Drawings

Frame Size: P110
Reduction Ratio: 1/11
Flange Shaft



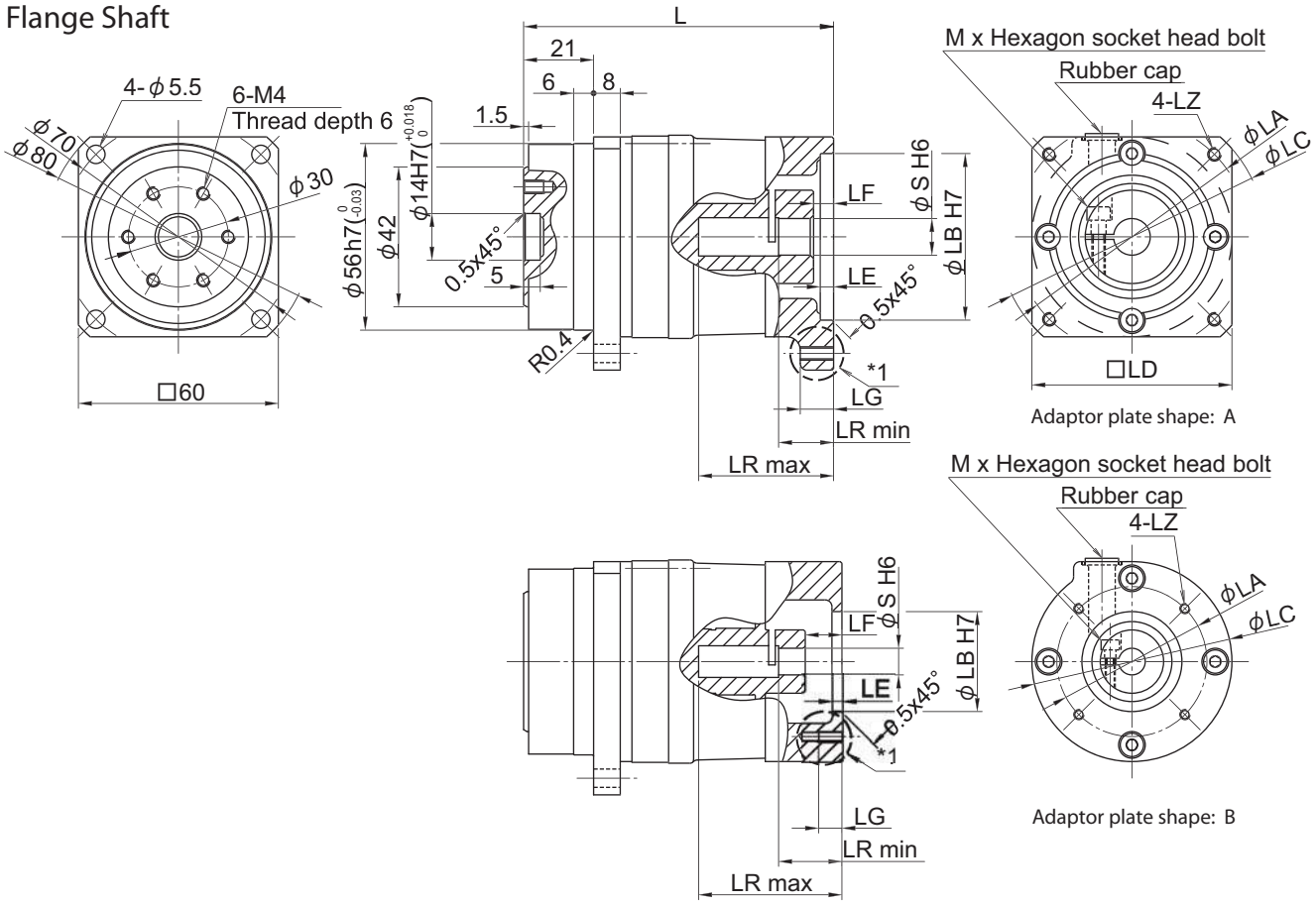
Nomenclature
ANFX-P110F [Motor flange code] [Backlash] — Reduction ratio (11)
3 min: L3
15 min: LD

Motor flange code	L	Dimension LA	LB	LC	LD	LE	LF	LG	*1 Shape	Adaptor plate shape	LZ	LR max	LR min	S	M	Mass [kg]	Motor flange code
2C	95.5	45	30	60	-	5	11	7	Useful thread length	B	M3	43	19	8	M3	1.06	2C
7J		46	30	60	-	5	11	9	Useful thread length		M4	43	19	6	M3	1.06	7J
2D		46	30	60	-	5	11	9	Useful thread length		M4	43	19	8	M3	1.06	2D
2E	93	60	50	80	60	4	8.5	9	Useful thread length	A	M4	40.5	16.5	8	M3	1.06	2E
2K		60	50	80	60	4	6	9	Useful thread length		M4	40.5	16.5	11	M4	1.06	2K
2F		70	50	80	60	4	8.5	10	Through hole		M4	40.5	16.5	8	M3	1.06	2F
2L		70	50	80	60	4	6	10	Through hole		M4	40.5	16.5	11	M4	1.16	2L
2G		70	50	80	60	4	8.5	10	Through hole		M5	40.5	16.5	8	M3	1.06	2G
2H		70	50	80	60	4	6	10	Through hole		M5	40.5	16.5	9	M4	1.16	2H
2R		70	50	80	60	4	6	10	Through hole		M5	40.5	16.5	14	M4	1.16	2R
8A	94.5	90	70	105	80	6	7.5	12	Through hole		M5	42	18	11	M4	1.26	8A
8B		90	70	105	80	6	7.5	12	Through hole		M5	42	18	14	M4	1.26	8B
2T		90	70	105	80	6	7.5	12	Through hole		M6	42	18	14	M4	1.26	2T

Note 1: Dimensions and mass shown in the above figures are subject to change without prior notification.

Dimension Drawings

Frame Size: P110
Reduction Ratio: 1/15
Flange Shaft



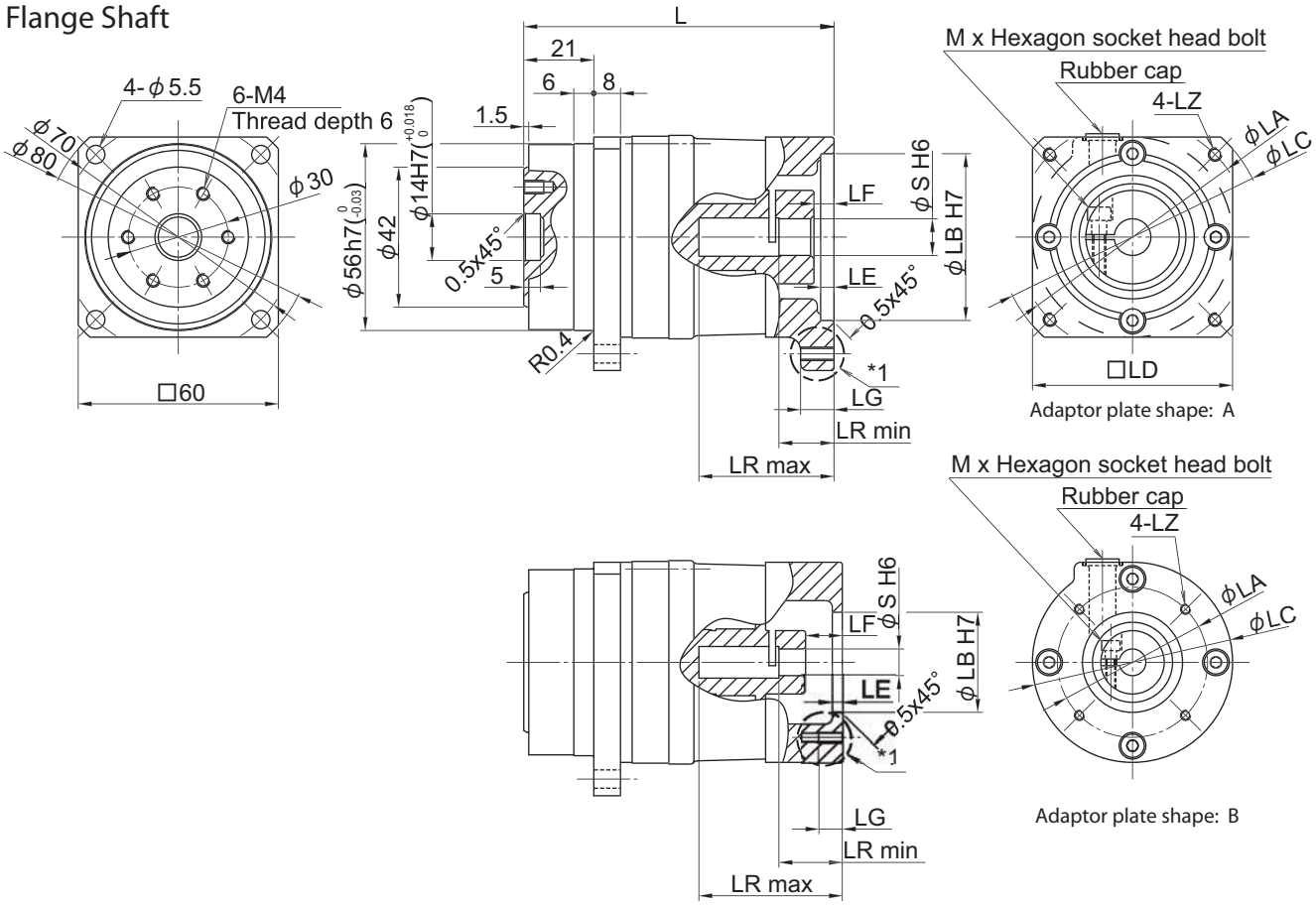
Nomenclature
ANFX-P110F [Motor flange code] [Backlash] — Reduction ratio (15)
3 min: L3
15 min: LD

Motor flange code	L	Dimension LA	LB	LC	LD	LE	LF	LG	*1 Shape	Adaptor plate shape	LZ	LR max	LR min	S	M	Mass [kg]	Motor flange code
2C	95.5	45	30	60	-	5	11	7	Useful thread length	B	M3	43	19	8	M3	1.06	2C
7J		46	30	60	-	5	11	9	Useful thread length		M4	43	19	6	M3	1.06	7J
2D		46	30	60	-	5	11	9	Useful thread length		M4	43	19	8	M3	1.06	2D
2E	93	60	50	80	60	4	8.5	9	Useful thread length	A	M4	40.5	16.5	8	M3	1.06	2E
2K		60	50	80	60	4	6	9	Useful thread length		M4	40.5	16.5	11	M4	1.06	2K
2F		70	50	80	60	4	8.5	10	Through hole		M4	40.5	16.5	8	M3	1.06	2F
2L		70	50	80	60	4	6	10	Through hole		M4	40.5	16.5	11	M4	1.16	2L
2G		70	50	80	60	4	8.5	10	Through hole		M5	40.5	16.5	8	M3	1.06	2G
2H		70	50	80	60	4	6	10	Through hole		M5	40.5	16.5	9	M4	1.16	2H
2R		70	50	80	60	4	6	10	Through hole		M5	40.5	16.5	14	M4	1.16	2R
8A	94.5	90	70	105	80	6	7.5	12	Through hole		M5	42	18	11	M4	1.26	8A
8B		90	70	105	80	6	7.5	12	Through hole		M5	42	18	14	M4	1.26	8B
2T		90	70	105	80	6	7.5	12	Through hole		M6	42	18	14	M4	1.26	2T

Note 1: Dimensions and mass shown in the above figures are subject to change without prior notification.

Dimension Drawings

Frame Size: P110
Reduction Ratio: 1/21
Flange Shaft



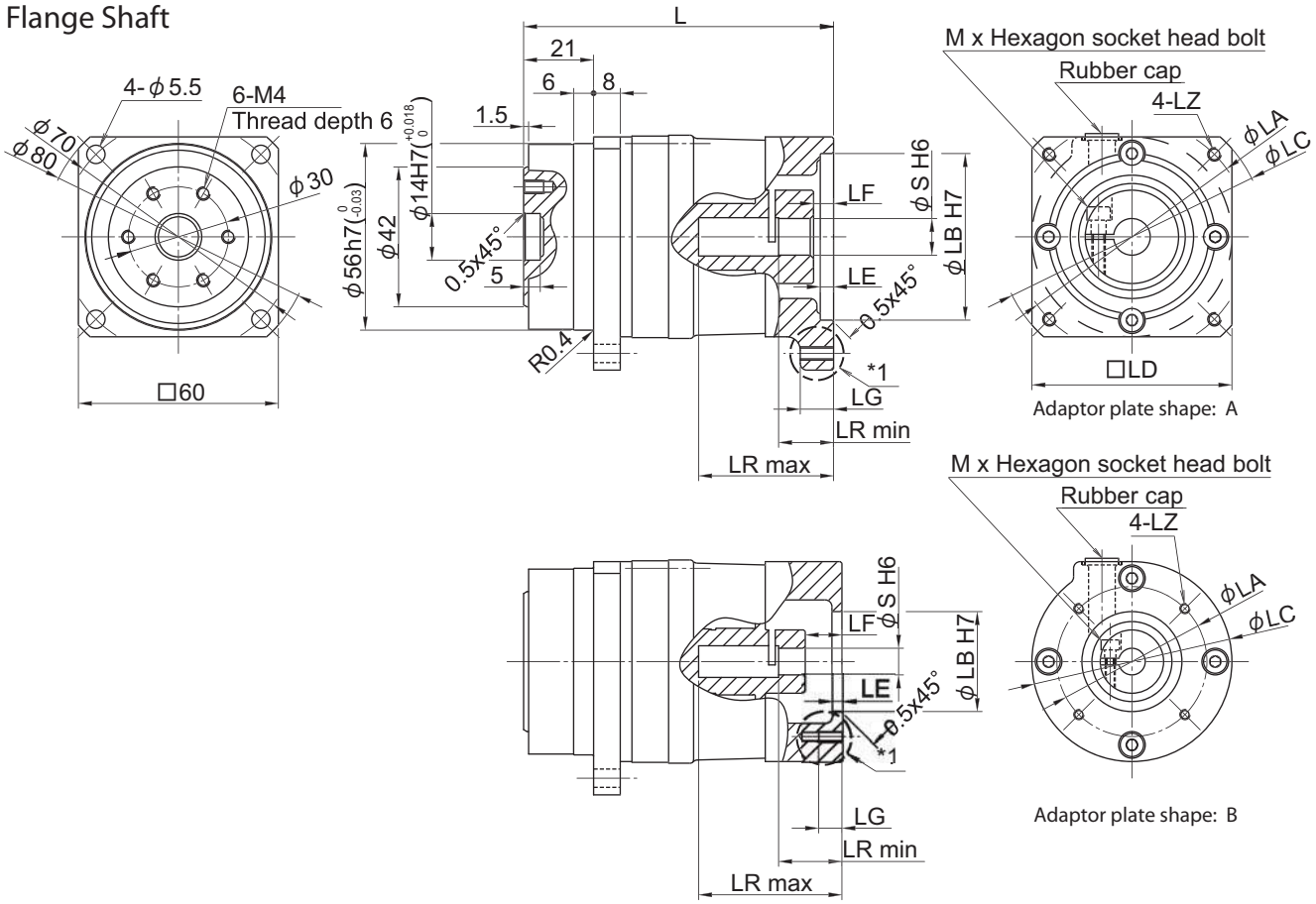
Nomenclature
ANFX-P110F [Motor flange code] [Backlash] — Reduction ratio (21)
3 min: L3
15 min: LD

Motor flange code	L	Dimension LA	LB	LC	LD	LE	LF	LG	*1 Shape	Adaptor plate shape	LZ	LR max	LR min	S	M	Mass [kg]	Motor flange code
2C	95.5	45	30	60	-	5	11	7	Useful thread length	B	M3	43	19	8	M3	1.06	2C
7J		46	30	60	-	5	11	9	Useful thread length		M4	43	19	6	M3	1.06	7J
2D		46	30	60	-	5	11	9	Useful thread length		M4	43	19	8	M3	1.06	2D
2E	93	60	50	80	60	4	8.5	9	Useful thread length	A	M4	40.5	16.5	8	M3	1.06	2E
2K		60	50	80	60	4	6	9	Useful thread length		M4	40.5	16.5	11	M4	1.16	2K
2F		70	50	80	60	4	8.5	10	Through hole		M4	40.5	16.5	8	M3	1.06	2F
2L		70	50	80	60	4	6	10	Through hole		M4	40.5	16.5	11	M4	1.06	2L
2G		70	50	80	60	4	8.5	10	Through hole		M5	40.5	16.5	8	M3	1.06	2G
2H		70	50	80	60	4	6	10	Through hole		M5	40.5	16.5	9	M4	1.16	2H
2R		70	50	80	60	4	6	10	Through hole		M5	40.5	16.5	14	M4	1.06	2R
8A	94.5	90	70	105	80	6	7.5	12	Through hole		M5	42	18	11	M4	1.26	8A
8B		90	70	105	80	6	7.5	12	Through hole		M5	42	18	14	M4	1.16	8B
2T		90	70	105	80	6	7.5	12	Through hole		M6	42	18	14	M4	1.16	2T

Note 1: Dimensions and mass shown in the above figures are subject to change without prior notification.

Dimension Drawings

Frame Size: P110
Reduction Ratio: 1/33
Flange Shaft



Nomenclature
ANFX-P110F [Motor flange code] [Backlash] — Reduction ratio (33)
3 min: L3
15 min: LD

Motor flange code	L	Dimension LA	LB	LC	LD	LE	LF	LG *1	Shape	Adaptor plate shape	LZ	LR max	min	S	M	Mass [kg]	Motor flange code
2C	95.5	45	30	60	-	5	11	7	Useful thread length	B	M3	43	19	8	M3	1.16	2C
7J		46	30	60	-	5	11	9	Useful thread length		M4	43	19	6	M3	1.16	7J
2D		46	30	60	-	5	11	9	Useful thread length		M4	43	19	8	M3	1.16	2D
2E	93	60	50	80	60	4	8.5	9	Useful thread length	A	M4	40.5	16.5	8	M3	1.06	2E
2K		60	50	80	60	4	6	9	Useful thread length		M4	40.5	16.5	11	M4	1.26	2K
2F		70	50	80	60	4	8.5	10	Through hole		M4	40.5	16.5	8	M3	1.06	2F
2L		70	50	80	60	4	6	10	Through hole		M4	40.5	16.5	11	M4	1.16	2L
2G		70	50	80	60	4	8.5	10	Through hole		M5	40.5	16.5	8	M3	1.06	2G
2H		70	50	80	60	4	6	10	Through hole		M5	40.5	16.5	9	M4	1.16	2H
2R		70	50	80	60	4	6	10	Through hole		M5	40.5	16.5	14	M4	1.06	2R
8A	124.5	90	70	105	80	6	7.5	12	Through hole		M5	42	18	11	M4	1.36	8A
2T	94.5	90	70	105	80	6	7.5	12	Through hole		M6	42	18	14	M4	1.16	2T

Note 1: Dimensions and mass shown in the above figures are subject to change without prior notification.