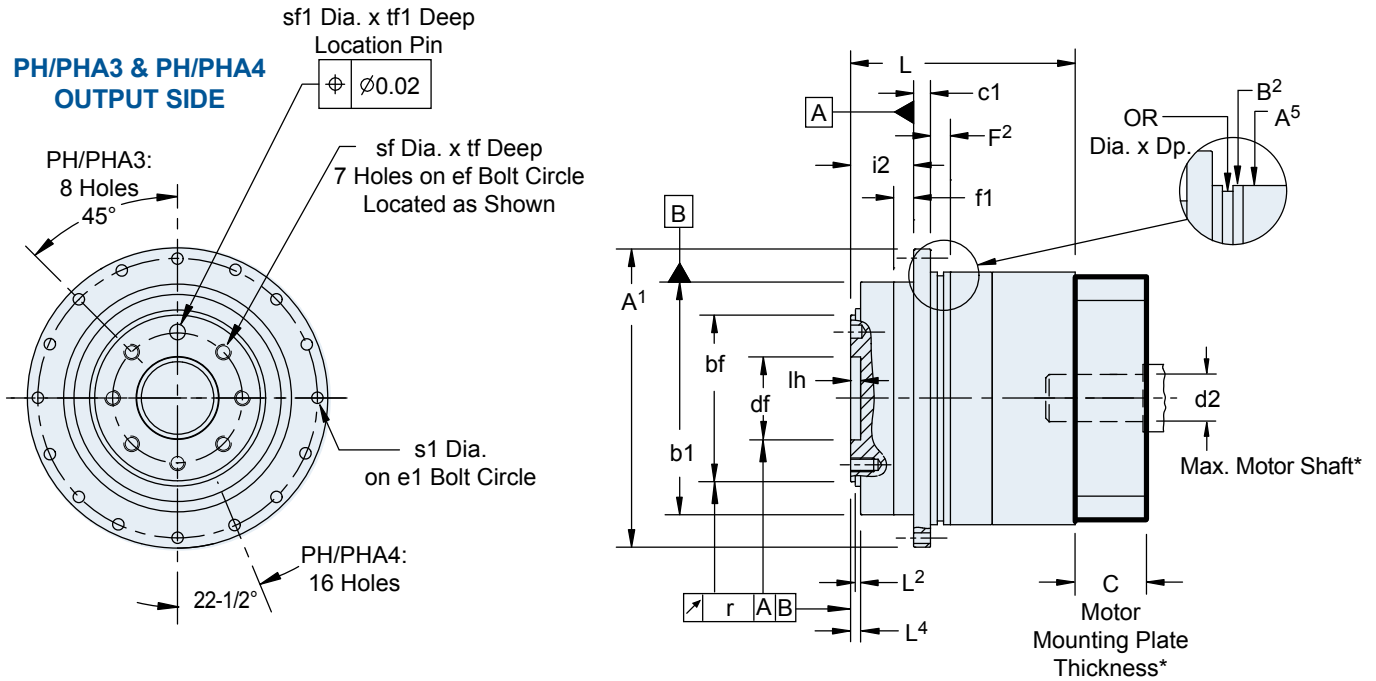


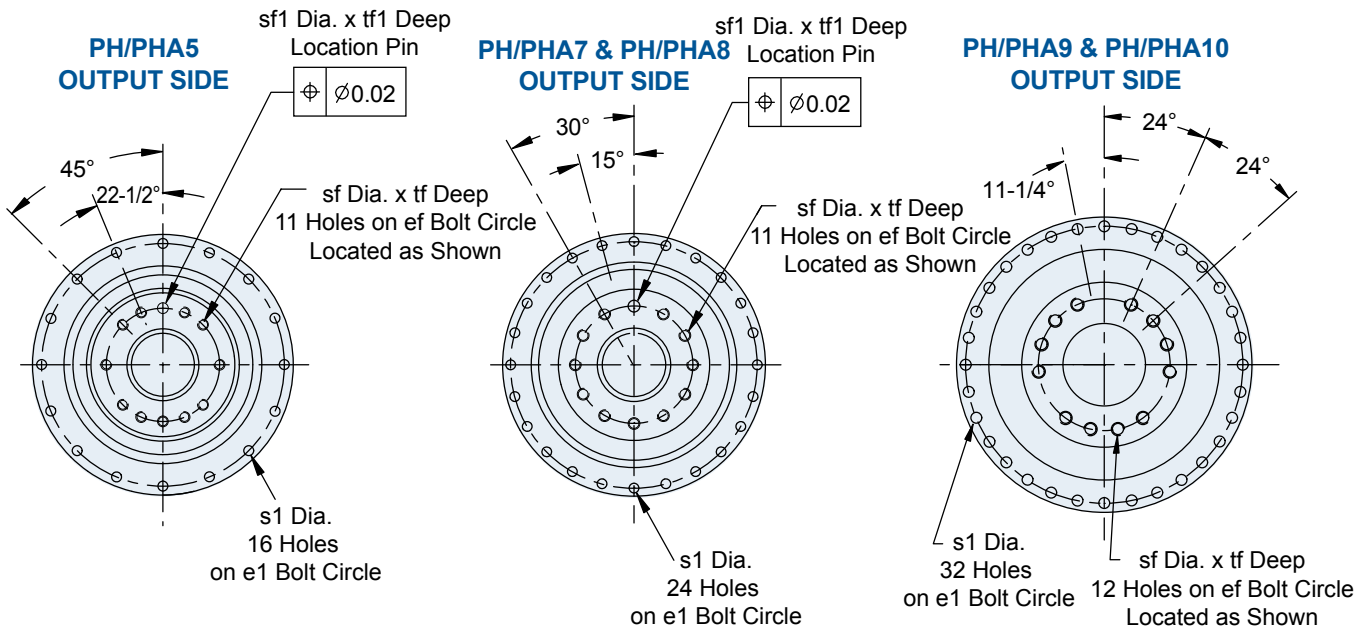
PH Series (A, Q, QA): INLINE – Flange Output

PH/PHA Standard Input

PH/PHA ServoCool Input Option



* See Motor Mounting Plate Option, page 54 for details.





Dimensional Data

PH
INLINE – Flange Output

Table 1 Dimensions (mm)

Unit	A ¹	h7*	B ¹	h7*	B ²	h7*	C ¹	C ²	D	H7*	E	E ¹
PH321/PH322	86	+0.000/-0.035	64	+0.000/-0.030	70 ⁽¹⁾	+0.000/-0.030	4	3	20	+0.021/-0	31.5	79
PH421/PH422	118	+0.000/-0.035	90	+0.000/-0.035	95	+0.000/-0.035	7	7	31.5	+0.025/-0	50	109
PH521/PH522	145	+0.000/-0.040	110	+0.000/-0.035	120 ⁽¹⁾	+0.000/-0.035	8	7	40	+0.025/-0	63	135
PH721/PH722	179	+0.000/-0.040	140	+0.000/-0.040	152	+0.000/-0.040	10	7	50	+0.025/-0	80	168
PH821/PH822	247	+0.000/-0.046	200	+0.000/-0.046	212	+0.000/-0.046	12	10	80	+0.030/-0	125	233
PH932/PHV933	300	–	255	+0.000/-0.052	255	+0.000/-0.052	18	–	90	+0.035/-0	140	280
PH1032/PHV1033	330	–	285	+0.000/-0.057	285	+0.000/-0.052	20	–	95	+0.035/-0	160	310

⁽¹⁾ Not applicable for PH322 and PH522.

Table 2 Dimensions (mm)

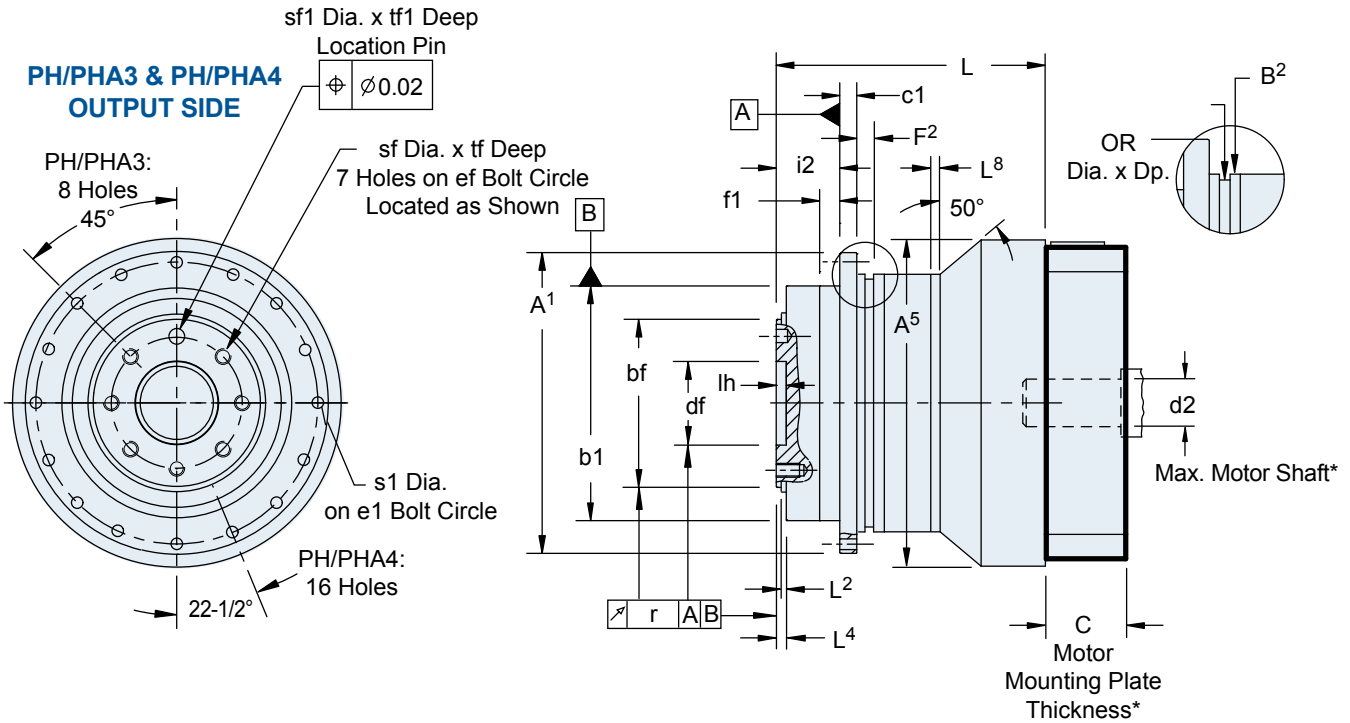
Unit	F ¹	F ²	I ²	L	L ²	L ⁴	OR	R	S ¹	S ²	H7*	S ⁴	T ⁴	V	h7*
PH321/PH322	7	8	19.5	4	3	3.5	65x2	.020	4.5	5	+0.012/-0.000	M5	7	40	+0.000/-0.025
PH421/PH422	10	10	30	6	6	6	90x3	.020	5.5	6	+0.012/-0.000	M6	11	63	+0.000/-0.030
PH521/PH522	10	12	29	6	6	6	110x3	.020	5.5	6	+0.012/-0.000	M6	11	80	+0.000/-0.030
PH721/PH722	12	12	38	6	6	6	145x3	.025	6.6	8	+0.015/-0.000	M8	14	100	+0.000/-0.035
PH821/PH822	15	15	50	8	8	8	200x5	.030	9	10	+0.015/-0.000	M10	18	160	+0.000/-0.040
PH932/PHV933	20	33	66	12	11	12	238x5	.030	13.5	–		M16	24	180	+0.000/-0.040
PH1032/PHV1033	20	20	75	10	15	15	270x6	.040	13.5	–		M20	30	200	+0.000/-0.046

* h7 = existing values; H7 = permissible values

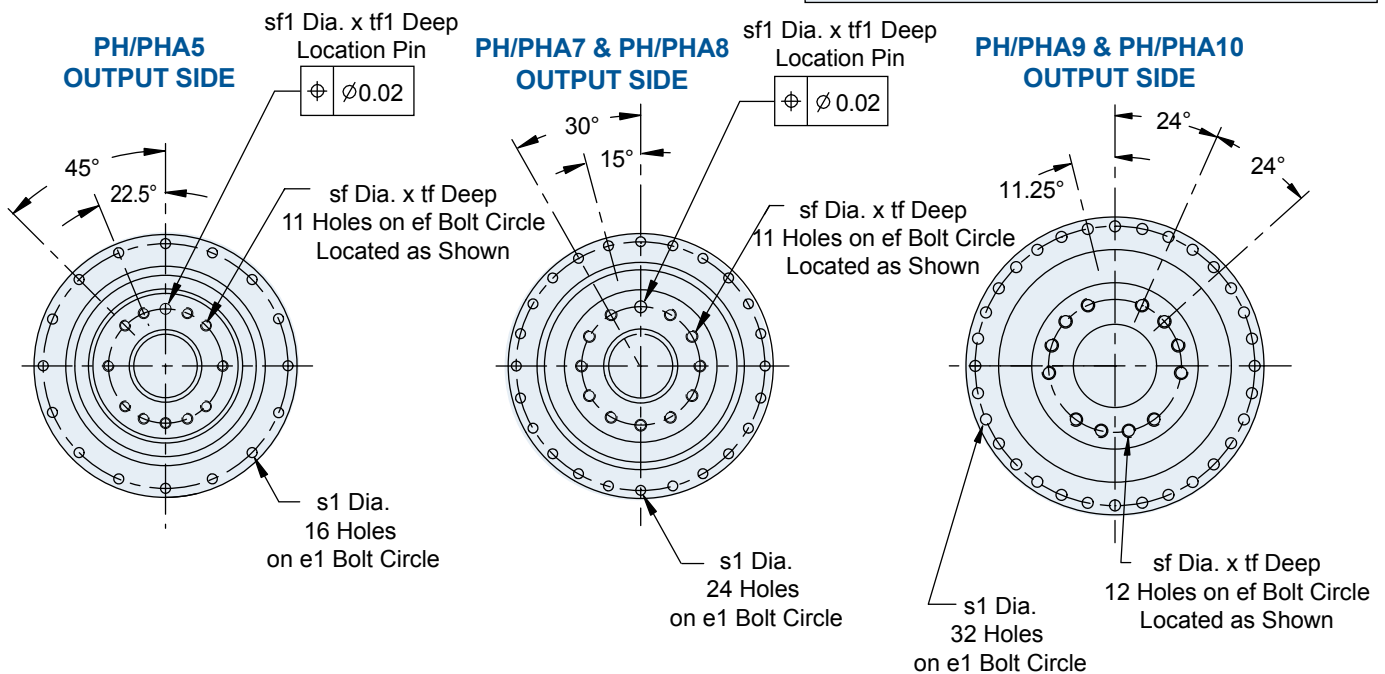
Table 3 Dimensions (mm)

Standard Input			ServoCool Input Option		
Unit	A ⁵	K	Unit	A ⁵	K
PH321	70	80.5	–		
PH322	55	104	–		
PH421	95	99	PH421_C	98	122.5
PH422	72	146.5	–		
PH521	120	110	PH521_C	115	138
PH522	98	159.5	PH522_C	98	183
PH721	152	138	PH721_C	145	168
PH722	115	190	PH722_C	115	218
PH821	212	183	PH821_C	190	231
PH822	145	251	PH822_C	145	281
PH932	190	349.5	PH932_C	190	397.5
PHV933	152	269.5	PHV933_C	145	299.5
PH1032	190	366	PH1032_C	190	414
PHV1033	212	307	PHV1033_C	190	355

PH/PHA Large Input Option



* See Motor Mounting Plate Option, page 54 for details.





Dimensional Data

PH
INLINE – Flange Output

Table 1 Dimensions (mm)

Unit	A ¹	h7*	B ¹	h7*	B ²	h7*	C ¹	C ²	D	H7*	E	E ¹
PH321/PH322_L	86	+0.000/-0.035	64	+0.000/-0.030	70 ⁽¹⁾	+0.000/-0.030	4	3	20	+0.021/-0.0	31.5	79
PH421/PH422_L	118	+0.000/-0.035	90	+0.000/-0.035	95	+0.000/-0.035	7	7	31.5	+0.025/-0.0	50	109
PH521/PH522_L	145	+0.000/-0.040	110	+0.000/-0.035	120 ⁽¹⁾	+0.000/-0.035	8	7	40	+0.025/-0.0	63	135
PH721/PH722_L	179	+0.000/-0.040	140	+0.000/-0.040	152	+0.000/-0.040	10	7	50	+0.025/-0.0	80	168
PH822_L	247	+0.000/-0.046	200	+0.000/-0.046	212	+0.000/-0.046	12	10	80	+0.030/-0.0	125	233
PH932/PHV933_L	300	–	255	+0.000/-0.052	255	+0.000/-0.052	18	–	90	+0.035/-0.0	140	280
PH1032_L	330	–	285	+0.000/-0.057	285	+0.000/-0.052	20	–	95	+0.035/-0.0	160	310

⁽¹⁾ Not applicable for PH322 and PH522.

Table 2 Dimensions (mm)

Unit	F ¹	F ²	I ²	L	L ²	L ⁴	L ⁸	OR	R	S ¹	S ²	H7*	S ⁴	T ⁴	V	h7*
PH321/PH322_L	7	8	19.5	4	3	3.5	5	65x2	0.020	4.5	5	+0.012/-0.000	M5	7	40	+0.000/-0.025
PH421/PH422_L	10	10	30	6	6	6	5	90x3	0.020	5.5	6	+0.012/-0.000	M6	10	63	+0.000/-0.030
PH521/PH522_L	10	12	29	6	6	6	5	110x3	0.020	5.5	6	+0.012/-0.000	M6	11	80	+0.000/-0.030
PH721/PH722_L	12	12	38	6	6	6	5	145x3	0.025	6.6	8	+0.015/-0.000	M8	14	100	+0.000/-0.035
PH822_L	15	15	50	8	8	8	5	200x5	0.030	9	10	+0.015/-0.000	M10	18	160	+0.000/-0.040
PH932/PHV933_L	20	33	66	12	11	12	5	238x5	0.030	13.5	–		M16	24	180	+0.000/-0.040
PH1032_L	20	20	75	10	15	15	3	270x6	0.040	13.5	–		M20	30	200	+0.000/-0.046

* h7 = existing values; H7 = permissible values

Table 3 Dimensions (mm)

Unit	A ⁵	K
PH321_L	95	80.5
PH322_L	72	104
PH421_L	120	99
PH422_L	98	146.5
PH521_L	152	110
PH522_L	115	159.5
PH721_L	212	138
PH722_L	145	190
PH822_L	190	251
PH932_L	225	349.5
PHV933_L	212	269.5
PH1032_L	225	366