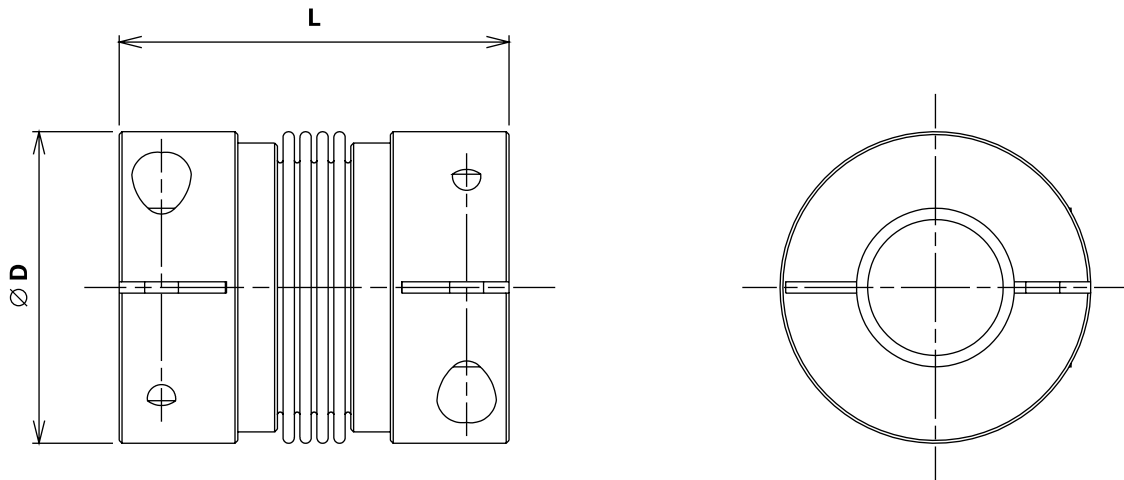


## Servo Coupling



Coupling reference		005	010	015	030	060	080
Max. $\varnothing$ servo shaft and SWG shaft	mm	$\varnothing$ 16	$\varnothing$ 24	$\varnothing$ 28	$\varnothing$ 32	$\varnothing$ 35	$\varnothing$ 42
Servo nominal torque	Nm	5	10	15	30	60	80
Servo peak torque	Nm	7.5	15	22.5	45	90	120
$\varnothing$ D	mm	32	40	49	55	66	82
L	mm	42	46	60	70	81	94
Moment of inertia	$10^{-3}$ kgm <sup>2</sup>	0.01	0.02	0.05	0.09	0.18	0.54
Torsional stiffness	Nm/arcmin	2	2.6	6	11	22	37
Tightening torque of campling screws	Nm	4	4.5	9	14	35	70

Specify the coupling reference and the motor shaft  $\varnothing$  when ordering.

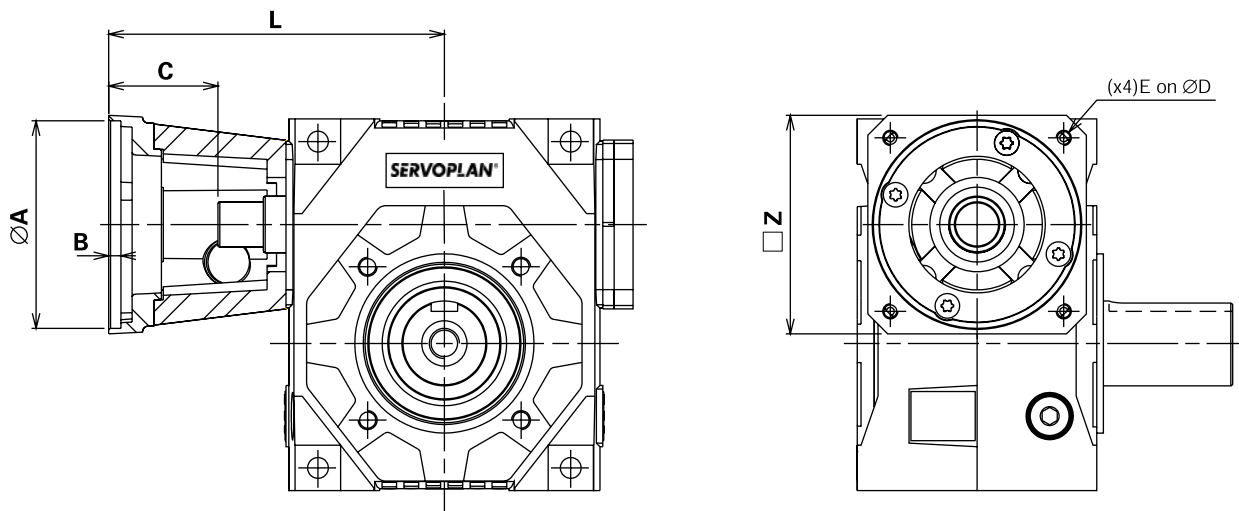
Example: couplingsize 015  $\varnothing$  14

To calculate the total input inertia, add the coupling inertia to the gearbox inertia (page 6).

## Servo Flange

Select the required flange on page 19.

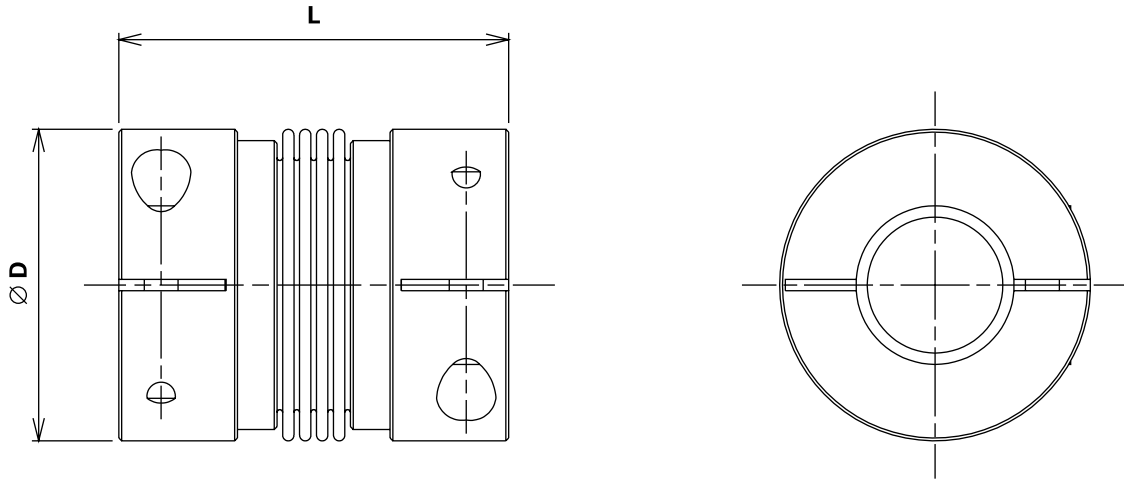
If no flange can be found in the list, supply the dimensions from A to Z, or supply the servo reference when ordering as in page 19 + 21 shown



SWG	Reference	A	B	C max*1	D	E	L*1	Z	
<b>15</b>	AA	30	4	27	46	M3	80	58	
	AB	40	4	27	63	M4	80	65	
	AC	50	4	32	70	M4	85	65	
	AE	60	4	32	75	M5	85	65	
	AF	70	4	32	90	M5	85	90	
	AG	50	4	32	95	M6	85	90	
	AH	80	5	42	100	M6	95	90	
	AI	95	5	52	115	M8	105	105	
	<b>30</b>	AA	40	4	32	63	M4	111	65
AB		50	4	35	70	M4	114	65	
AC		60	4	35	75	M5	114	65	
AD		70	4	45	90	M5	124	90	
AE		50	4	35	95	M6	114	90	
AF		80	4	45	100	M6	124	90	
AG		95	5	45	115	M8	124	118	
AH		95	5	55	130	M8	134	118	
AI		110	5	55	130	M8	134	118	
AJ		110	6,5	65	145	M8	144	118	
<b>80</b>	AA	50	4	35	70	M4	135	81	
	AB	60	4	35	75	M5	135	81	
	AC	70	4	45	90	M5	145	91	
	AD	50	4	35	95	M6	135	91	
	AE	80	5	45	100	M6	145	91	
	AF	95	5	45	115	M8	145	115	
	AG	95	5	55	130	M8	155	115	
	AH	110	5	55	130	M8	155	115	
	AI	110	6,5	65	145	M8	165	140	
	AJ	110	6,5	55	165	M10	155	140	
	AK	130	6,5	55	165	M10	155	140	
	<b>120</b>	AA	50	4	35	70	M4	146	81
		AB	60	4	35	75	M5	146	81
AC		70	4	45	90	M5	156	91	
AD		50	4	35	95	M6	146	91	
AE		80	4	45	100	M6	156	91	
AF		95	5	45	115	M8	156	115	
AG		95	5	55	130	M8	166	115	
AH		110	5	55	130	M8	166	115	
AI		110	6,5	65	145	M8	176	140	
AJ		110	6,5	55	165	M10	166	140	
AK		130	6,5	55	165	M10	166	140	
<b>190</b>		AA	50	4	40	70	M4	160	102
		AB	60	4	40	75	M5	160	102
	AC	70	4	46	90	M5	166	102	
	AD	80	5	46	100	M6	166	102	
	AE	95	5	46	115	M8	166	115	
	AF	95	5	56	130	M8	176	115	
	AG	110	5	56	130	M8	176	115	
	AH	110	6,5	66	145	M8	186	140	
	AI	110	6,5	56	165	M10	176	140	
	AJ	130	6,5	56	165	M10	176	140	
	AK	114,3	6,5	86	200	M10	206	185	
	AL	130	6,5	66	215	M12	186	185	
	AM	180	6,5	66	215	M12	186	185	
<b>260</b>	AA	50	4	40	70	M4	185	102	
	AB	60	4	40	75	M5	185	102	
	AC	70	4	46	90	M5	191	102	
	AD	80	5	46	100	M6	191	102	
	AE	95	5	46	115	M8	191	115	
	AF	95	5	56	130	M8	201	115	
	AG	110	5	56	130	M8	201	115	
	AH	110	6,5	66	145	M8	211	140	
	AI	110	6,5	56	165	M10	201	140	
	AJ	130	6,5	56	165	M10	201	140	
	AK	114,3	6,5	86	200	M10	231	185	
	AL	130	6,5	66	215	M12	211	185	
	AM	180	6,5	66	215	M12	211	185	
<b>500</b>	AA	80	4	46	100	M6	205,5	123	
	AB	95	5	46	115	M8	205,5	123	
	AC	95	5	56	130	M8	215,5	123	
	AD	110	5	56	130	M8	215,5	123	
	AE	110	6,5	66	145	M8	225,5	140	
	AF	110	6,5	56	165	M10	215,5	140	
	AG	130	6,5	56	165	M10	215,5	140	
	AH	114,3	6,5	86	200	M10	245,5	185	
	AI	130	6,5	66	215	M12	225,5	185	
	AJ	180	6,5	66	215	M12	225,5	185	
	AK	250	6,5	88	300	M14	247,5	260	

\*1 If length of motorshaft is longer than C min, a intermediale ring according to order number system (page 23) has to be defined to compensale the overlength. In this case L will be longer accordingly.

## Servo Coupling



Coupling reference		060	080	150	300	500
Max. Ø servo shaft and SWG shaft	mm	Ø 35	Ø 42	Ø 42	Ø 60	Ø 62
Servo nominal torque	Nm	60	80	150	300	500
Servo peak torque	Nm	90	120	225	450	750
Ø D	mm	66	82	82	110	123
L	mm	79	92	92	109	114
Moment of inertia	10 <sup>-3</sup> kgm <sup>2</sup>	0.18	0.54	0.65	2.68	9
Torsional stiffness	Nm/arcmin	21	23	41	46	85
Tightening torque of clamping screws	Nm	35	60	75	120	200

Specify the coupling reference and the motor shaft when ordering.

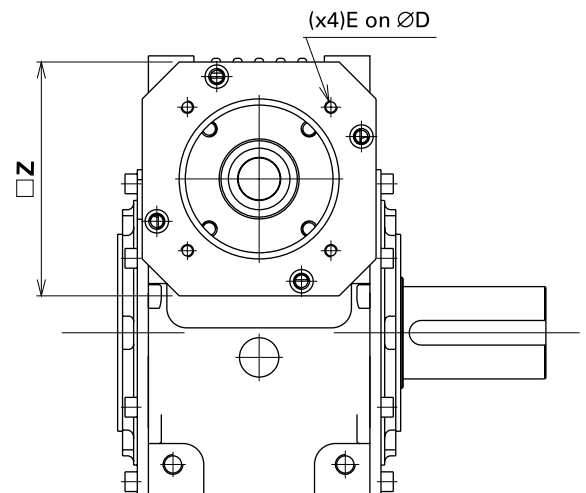
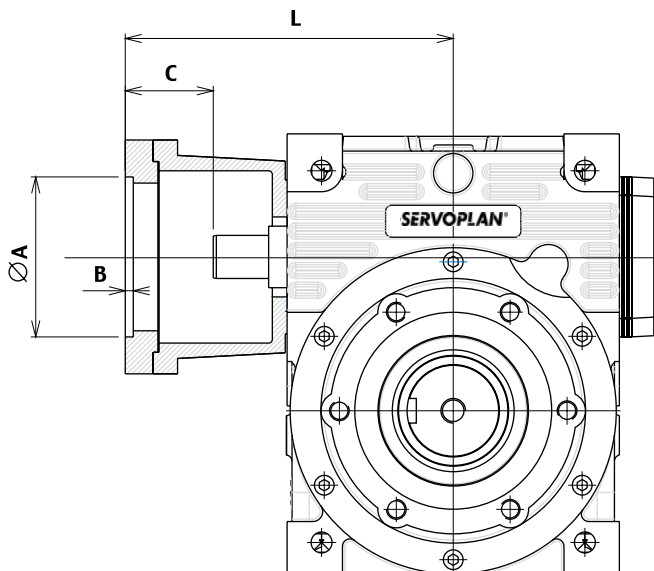
Example: couplingsize 150 Ø 42

To calculate the total input inertia, add the coupling inertia to the gearbox inertia (page 6 and 7).

## Servo Flange

Select the required flange on page 19.

If no flange can be found in the list, supply the dimensions from A to Z, or supply the servo reference when ordering as in page 19 and 21 shown



SWG	Reference	A	B	C min*1	D	E	L*1	Z	
<b>800</b>	AA	80	4	46	100	M6	229	123	
	AB	95	5	46	115	M8	229	123	
	AC	95	5	56	130	M8	239	123	
	AD	110	5	56	130	M8	239	123	
	AE	110	6,5	66	145	M8	249	140	
	AF	110	6,5	56	165	M10	239	140	
	AG	130	6,5	56	165	M10	239	140	
	AH	114,3	6,5	86	200	M10	269	185	
	AI	130	6,5	66	215	M12	249	185	
	AJ	180	6,5	66	215	M12	249	185	
	AK	250	6,5	88	300	M14	271	260	
	<b>1500</b>	AA	95	5	42	115	M8	247	190
		AR	95	5	52	130	M8	257	190
AC		110	5	52	130	M8	257	190	
AD		110	6,5	62	145	M8	267	190	
AE		110	6,5	52	165	M10	257	190	
AF		130	6,5	52	165	M10	257	190	
AG		114,3	6,5	82	200	M10	287	190	
AH		130	6,5	62	215	M12	267	190	
AI		180	6,5	62	215	M12	267	190	
AJ		230	6,5	85	265	M12	290	260	
AK		250	6,5	85	300	M14	290	260	
AL		300	8,5	112	350	M16	317	360	
<b>2500</b>		AA	130	6,5	52	165	M10	321	200
	AB	114,3	6,5	82	200	M10	351	200	
	AC	130	6,5	62	215	M12	331	200	
	AD	180	6,5	62	215	M12	331	200	
	AE	230	6,5	85	265	M12	331	260	
	AF	250	6,5	85	300	M14	354	260	
	AG	300	8,5	112	350	M16	381	360	
	<b>4800</b>	AA	130	6,5	52	165	M10	365	200
AB		114,3	6,5	82	200	M10	399	200	
AC		130	6,5	62	215	M12	379	200	
AD		180	6,5	62	215	M12	379	200	
AE		230	6,5	85	265	M12	402	260	
AF		250	6,5	85	300	M14	402	260	
AG		300	8,5	112	350	M16	429	360	
AH		350	10,5	142	400	M16	460	420	

\*1 If length of motorshaft is longer than C max, a intermediale ring according to order number system (page 23) has to be defined to compensate the overlength. In this case L will be longer accordingly.