

Input Adapters

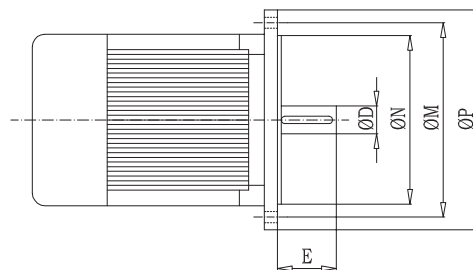
IMPORTANT NOTES:

- The combinations given in the tables show the most common combinations of gearboxes and electric motors. These are based on typical applications and average reduction ratios.
- Further combinations, e.g. for uncommon applications or for very low or high ratios, are available on request.
- As there is a wide range of power, torque and speed for electric motors, the listed gear and motor combinations are intended to be just a quick reference, therefore some restrictions may apply.
- The selected unit must be verified according to catalog section C.

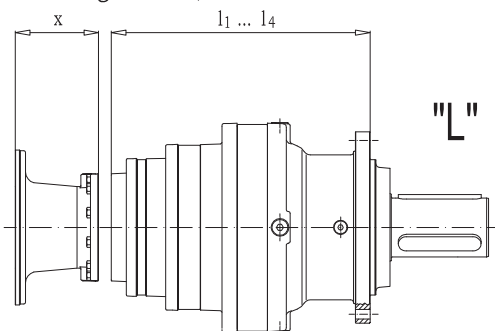
Basic IEC Dimensions, B5-Type Flange [mm]

IEC frame size	ØP	ØN	ØM	ØD	E	Flange Code
63	140	95	115	11	23	E63
71	160	110	130	14	30	E71
80	200	130	165	19	40	E80
90	200	130	165	24	50	E90
100	250	180	215	28	60	E10
112	250	180	215	28	60	E10
132	300	230	265	38	80	E13
160	350	250	300	42	110	E16
180	350	250	300	48	110	E18
200	400	300	350	55	110	E20
225	450	350	400	60	140	E22
250	550	450	450	65	140	E25
280	550	450	450	75	140	E28
315	660	550	550	80	170	E31

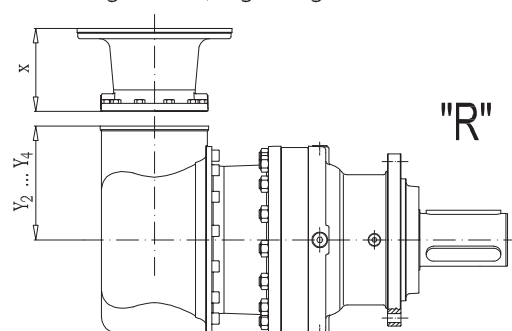
IEC



Mounting Scheme, In-Line Gears



Mounting Scheme, Right-Angle Gears



IEC - Electric Motors

Table 9: Motor Flange Thickness "x" [mm]

Size, Version	15				18				22				28				32				36				42				50				60				67			
Code	L1	L2	L3	L4	L1	L2	L3	L4	L1	L2	L3	L4	L1	L2	L3	L4	L1	L2	L3	L4	L1	L2	L3	L4	L1	L2	L3	L4	L1	L2	L3	L4	L1	L2	L3	L4				
E63			58	58			58				58				58				58				58				58				58				58					
E71			62	62			62	62			62	62			62				62				62				62				62				62					
E80		83	83				83				83	83			83	83			83	83			83	83			83	83			83				83					
E90		83	83				83	83				83				83				83				83				83				83				83				
E10	93	93					93				93				93	93				93	93			93	93			93	93			93	93			93				
E13	115	115					115	115				115				115				115				115				115				115				115				
E16	145						145				145	145				145	145			149	145			149	145			149	145			149	145			149				
E18	145						145				145					145				149				149	145			149	145			149	145			149				
E20																				189				189				189				189				189				
E22																				189				189				189				189				189				
E25																				189				189				189				189				189				

Size, Version	75				85				100				110				130				140				170				200				220				260			
Code	L1	L2	L3	L4	L1	L2	L3	L4	L1	L2	L3	L4	L1	L2	L3	L4	L1	L2	L3	L4	L1	L2	L3	L4	L1	L2	L3	L4	L1	L2	L3	L4	L1	L2	L3	L4				
E71				62				62				62				62																								
E80				83				83				83				83																				83				
E90			83	83			83	83				83				83					83				83				83				83				83			
E10			93				93				93	93			93	93				93	93			93	93			97	93			97	93			93				
E13		119	115			119	115				115				115				115				115				119				119				119					
E16		149				149				149				149	145				149	145			149	145			149			149				149						
E18		149				149				149				149				149				149				149				149				149						
E20	195	189				189				189				189				189				189				195				195				195						
E22	195					195	189			195	189			195	189			189				189				195				195				195						
E25	195					195				195				195	189			195	189			189				189				195				195						
E28	195					195				195				195				195				195				195				195				195						

Size, Version	300				360				420				480				560				630				750				900				1100				1300				1700				2100				2500			
Code	L1	L2	L3	L4	L1	L2	L3	L4	L1	L2	L3	L4	L1	L2	L3	L4	L2	L3	L4	L2	L3	L4	L2	L3	L4	L2	L3	L4	L2	L3	L4	L3	L4	L3	L4	L3	L4	L3	L4													
E90				83				83								83																																				
E10				93				93								93				97				97			97			97																						
E13			119	115				119	115				119	115			119	115			119				119			119			119				119																	
E16			149					149					149	145			149				149				149			149			149				149																	
E18			149					149					149											149			149			149				149																		
E20		195						195									195				195				195			195			195				195				195				195									
E22		195						195					195				195	195			195	195			195			195			195				195				195				195									
E25		195						195					195				195	195			195	195			195			195			195				195				195				195									
E28		195						195					195				195				195				195			195			195				195				195				195									
E31	197							186					186											197			197			186				186							197			197								

Size, Version	36				42				50				60				67				75				85				100				110				130				140				170				200			
Code	R2	R3	R4	R2	R3	R4	R2	R3	R4	R2	R3	R4	R2	R3	R4	R2	R3	R4	R2	R3	R4	R2	R3	R4	R2	R3	R4	R2	R3	R4	R2	R3	R4	R2	R3	R4	R2	R3	R4													
E63			58			58			58			58			58																																					
E71			62			62			62			62		62		62		62																																		
E80		83	83		83	83			83			83		83		83		83			83			83		83			83			83			83			83			83			83								
E90		83			83			83			83		83	83		83	83		83	83			83		83		83		83			83			83			83			83			83								
E10	93	93		93	93		93	93			93	93			93		93			93			93		93	93		93	93		93	93		93	93		93	93		93	93			93	93							
E13	115			115		115			115			115	115		115	115		115			115			115		115		115		115			115			115			115			115			115							
E16	145			145		145			145			145		145		145		145			145			145		145	145		145	145		145	145		145	145		145	145		145	145			145	145						
E18				145		145			145			145		145		145		145			145			145		145		145		145			145			145			145			145			145	145						
E20																																																				
E22																																													189							
E25																																													189							

Input Adapters

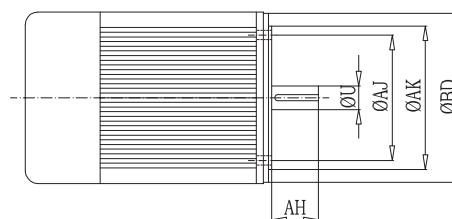
IMPORTANT NOTES:

- The combinations given in the tables show the most common combinations of gearboxes and electric motors. These are based on typical applications and average reduction ratios.
- Further combinations, e.g. for uncommon applications or for very low or high ratios, are available on request.
- As there is a wide range of power, torque and speed for electric motors, the listed gear and motor combinations are intended to be just a quick reference, therefore some restrictions may apply.
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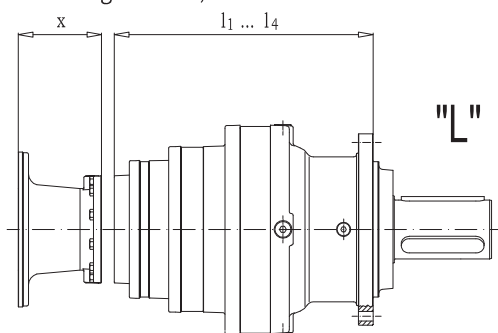
Basic NEMA Dimensions, C-Face Flange [in]

NEMA frame size	ØBD	ØAK	ØAJ	ØU	AH	Flange Code
42 C	4.9	3.0	3.750	0.375	1.31	---
48 C	5.0	3.0	3.750	0.500	1.69	---
56 C	6.5	4.5	5.875	0.625	2.06	N56
143 - 145 TC	6.5	4.5	5.875	0.875	2.13	N14
182 - 184 TC	8.9	8.5	7.250	1.125	2.63	N18
213 - 215 TC	9.0	8.5	7.250	1.375	3.13	N21
254 - 256 TC	9.6	8.5	7.250	1.625	3.75	N25
284 - 286 TC	11.0	10.5	9.0	1.875	4.38	N28
324 - 326 TC	13.4	12.5	11.0	2.125	5.00	N32
364 - 365 TC	14.0	12.5	11.0	2.375	5.63	N36
404 - 405 TC	15.5	12.5	11.0	2.875	7.00	N40
444 - 445 TC	18.0	16.0	14.0	3.375	8.25	N44

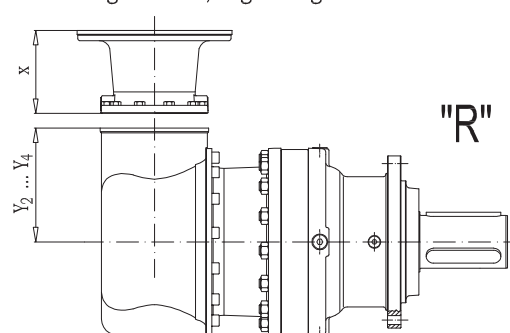
NEMA



Mounting Scheme, In-Line Gears



Mounting Scheme, Right-Angle Gears

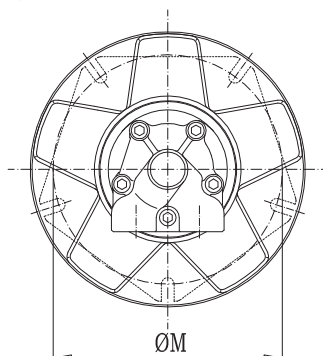
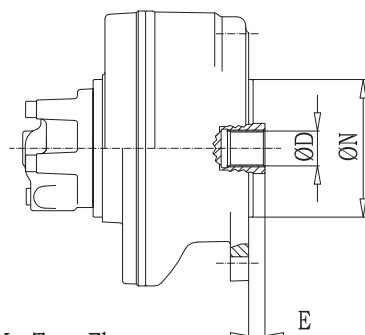


DIMENSIONS IN MM UNLESS OTHERWISE SPECIFIED

Input Adapters

IMPORTANT NOTES:

- a The combinations given in the tables show the most common combinations of gearboxes and hydraulic motors. These are based on typical applications and average performance requirements.
- b Further input adapters, e.g. for uncommon brands of hydraulic motors, are available on request.
- c As there is a wide range of power, torque and speed for hydraulic motors, the listed combinations are intended to be just a quick reference, therefore some restrictions may apply.
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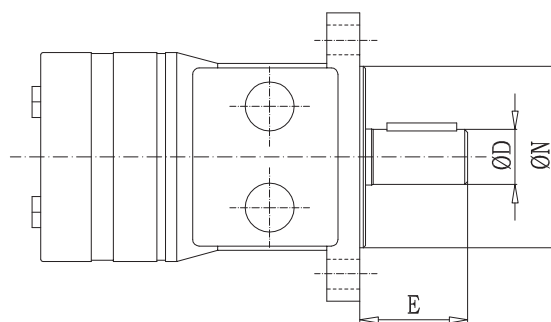
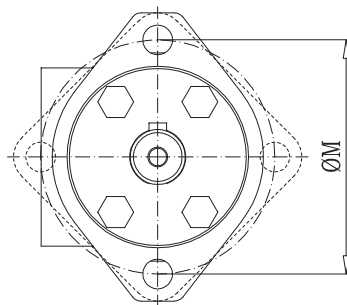


SAI

Basic Dimensions, SAI GM - Type Flange

SAI frame size	ØN [mm]	ØM [mm]	E [mm]	ØD										Thickness "x"		Approx. Mass	
				35x2x16	40x3x12	55x3x17	80x3x25							Input Type	x	[kg]	[lbs]
GM 05, FS15-A1	125	160	23	F15										1	33	2.5	5.5
GM 1	175	210	8	F21										2	28	3.0	6.6
FS15-A2, FS30-A1				F31										3	55	5.8	12.8
GM 2	150	250	18		F32									3	33.5	5.7	12.6
FS30-A2, FS50-A1					F42									4	62	11.1	24.5
GM 3	265	310	18			F43								4	38	9.3	20.5
GM 4	265	310	14			F44								4	38	9.5	20.9
						F54								5B	5.5	3.5	7.7
GM 5A	265	310	14			F54								5B	5.5	3.5	7.7
GM 6	381	420	20				F56							5B	46.5	25.1	55.3
L 7 B	381	420	20				F66							6	50	35.5	78.3

Data and dimensions are not binding and may be modified without prior notice

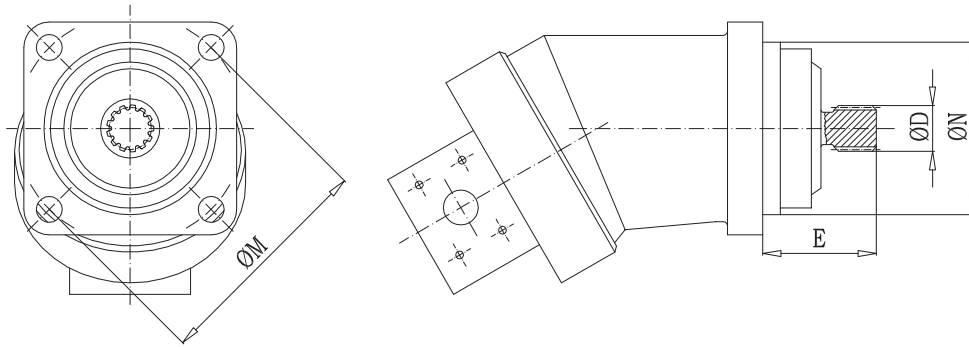


SAE

Basic Dimensions, SAE - Type Flange

SAE frame size	ØN	ØM	E max	ØD											Thickness "x"		Approx. Mass	
	[in.]	[in.]	[mm]	Ø0.875"	16/32-13T	Ø25mm	Ø1"	1"-6B	Ø1.25"	Ø32mm	12/24-14T	16/32-21T	16/32-23T	8/16-13T	Input Type	x	[kg]	[lbs]
A - 2/4 bolt	3.25	4.188	68		A13	A25	A10	A6B	A12	A32	A14				1	104	5.4	11.9
															2	108	7.0	15.4
B - 2/4 bolt	4.00	5.750	75	B78	B13	B25	B10	B6B			B14				1	111	6.7	14.8
															2	115	8.3	18.3
C - 2 bolt	5.00	7.125	73								C14	C21	C23		1	109	8.1	17.9
															2	113	9.7	21.4
D - 2/4 bolt	6.00	9.000	73											D13	1	109	15.5	34.2
															2	113	17.1	37.7

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Basic Dimensions, ISO - Type Flange

ISO frame size	ØN	ØM	E max	ØD										Thickness "x"		Approx. Mass	
	[mm]	[mm]	[mm]	Ø25	m1.25 z18	30x2x14	35x2x16	40x2x18	45x2x21	50x2x24				Input Type	x	[kg]	[lbs]
4 - 100	80	100	54	25A										1	88	6.4	14.1
4 - 125	100	125	60			14B								1	94	8.0	17.6
4 - 160	125	160	72			14C	16C							1	106	10.3	22.7
														2	110	11.9	26.2
4 - 180	140	180	77					18D						1	111	11.2	24.7
														2	115	12.8	28.2
4 - 200	160	200	90						21E					1	124	14.9	32.8
														2	128	16.5	36.4
4 - 224	180	224	95							24F				1	129	17.3	38.1
														2	133	18.9	41.7
4 - 250	200	250	95							24G				2	133	24.8	54.7
4 - 280	224	280	108							24H				2	146	28.6	63.1

Data and dimensions are not binding and may be modified without prior notice

Table 11: Input Flange Type

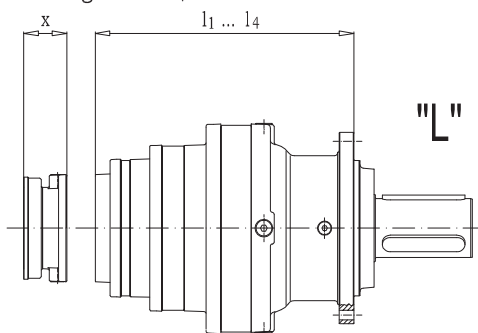
Size, n°stages	15				18				22				28				32				36				42				50				60				67				75			
Type	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
L	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	2	1	1	1	2	1	1	1	2	1	1	1	2	1	1	1	2	1	1	1	3	2	1	1
R																		1	1	1		1	1	1		1	1	1		1	1	1		1	1	1		1	1	1		1	1	1

Size, n°stages	85				100				110				130				140				170				200				220				260				300				360							
Type	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
L	3	2	1	1	3	2	1	1	3	2	1	1	3	2	1	1	4	2	1	1	4	2	1	1	4	3	2	1	4	3	2	1	4	3	2	1	4	3	2	1	5A	3	2	1	5B	4	2	1
R		1	1	1		1	1	1		1	1	1		1	1	1		1	1	1		1	1	1		2	1	1		2	1	1		2	1	1		2	1	1		2	1	1				

Size, n°stages	420				480				560				630				750				900				1100				1300				1700				2100				2500							
Type	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
L	5B	4	2	1	5B	4	2	1	5B	4	3	2	5B	4	3	2	6	5A	3	2	6	5A	3	2	6	5B	4	2	6	5B	4	2	7A	5B	4	3	7B	6	5A	3	7B	6	5A	3	4			
R		2	1	1		2	1	1		2	2	1		2	2	1		2	1			2	1			2	1			2	1			1				2				2				2		

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Mounting Scheme, In-Line Gears



Mounting Scheme, Right-Angle Gears

