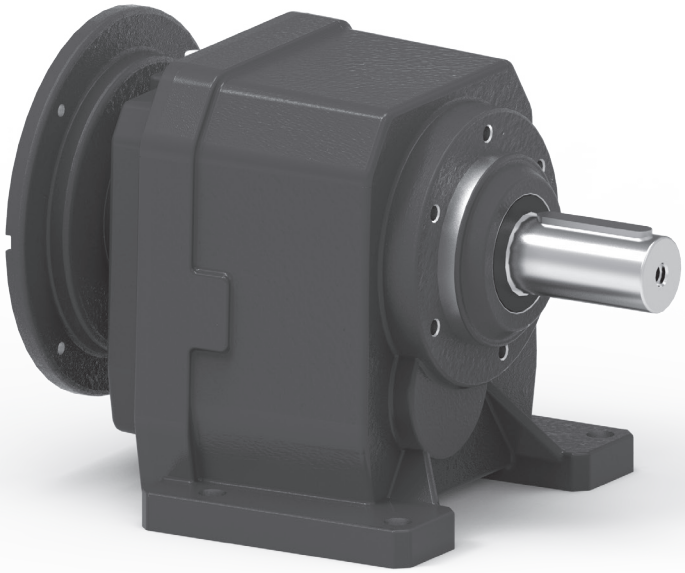
NEMA

D Helical gear reducers RCV

Reductores de engranajes helicoidales RCV



Helical gear reducers
RCV

4.1 Characteristics

VARMEC gear reducers and motor-reducers have been entirely designed using leading edge technical computer software.Each single component has been designed and tested in consideration of the maximum loads applicable to the reducer in compliance with AGMA 2001-B88.
Casings and flanges made from non varnished aluminium in sizes 141 - 191 - 162 - 202A - 252A - 253A - 302A - 303A. Casings and flanges of all other sizes are made from varnished, highly resistant cast iron. The rounded shape of the casings gives the gear reducers an optimum rigidity and solidity allowing for use in all possible assembly positions.
The manufacturing process of the various components is done by modern CNC machinery that gives maximum precision construction.
All gears are made from hardened and tempered alloy steel with successive corrections to better the performance and reduce noise levels even whilst running with a load.
The input shaft is made from hardened and tempered alloy steel; the output shaft from high strength steel. Gear reducers are varnished with a thermosetting powder based on polyester resins modified with an epoxy resin : colour Burnt Blue RAL5010.
Further information on varnish specifics can be had by contacting our technical office

Reductores de engranajes helicoidales
RCV

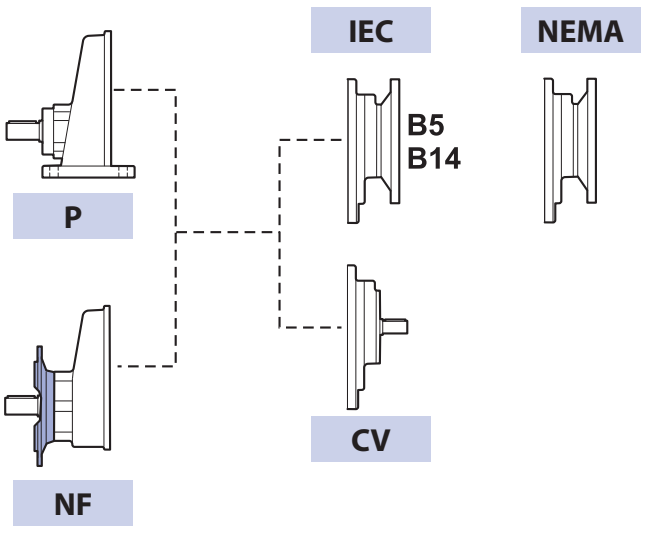
4.1 Características

Los reductores y motorreductores VARMEC han sido proyectados completamente con el apoyo de programas técnicos computarizados. Cada uno de los componentes ha sido proyectado y verificado teniendo en cuenta la máxima carga aplicable al reductor según la normativa AGMA 2001-B88.
Carcasas y bridas en aluminio no barnizado de medidas 141 - 191 - 162 - 202A - 252A - 253A - 302A - 303A, carcasas y bridas en fundición de alta resistencia barnizadas en las otras medidas.
La forma redondeada de las carcasas confieren al reductor una óptima rigidez y una elevada compatibilidad que permite su utilización en todas las posiciones de montaje posibles.
La producción de cada uno de los componentes que integran el reductor se realiza mediante centros mecanizados de control numérico que permiten obtener la máxima precisión constructiva.
Todos los engranajes son construidos en acero 18NiCrMo5 UNI 7846 tratados térmicamente, cementados y cada diente esta rectificado para mejorar su rendimiento y reducir su nivel de sonoridad bajo condiciones de carga.
El eje de entrada esta fabricado con acero 16CrNi4 UNI 7846 cementado y templado, y el eje de salida en acero 39NiCrMo3 UNI7845 bonificado.
Los reductores estan barnizados con polvo termo-endureciente a base de resinas de poliéster, modificadas con resinas epoxi de color azul RAL5010.
Informaciones especificas del barniz se pueden pedir en la oficina técnica.

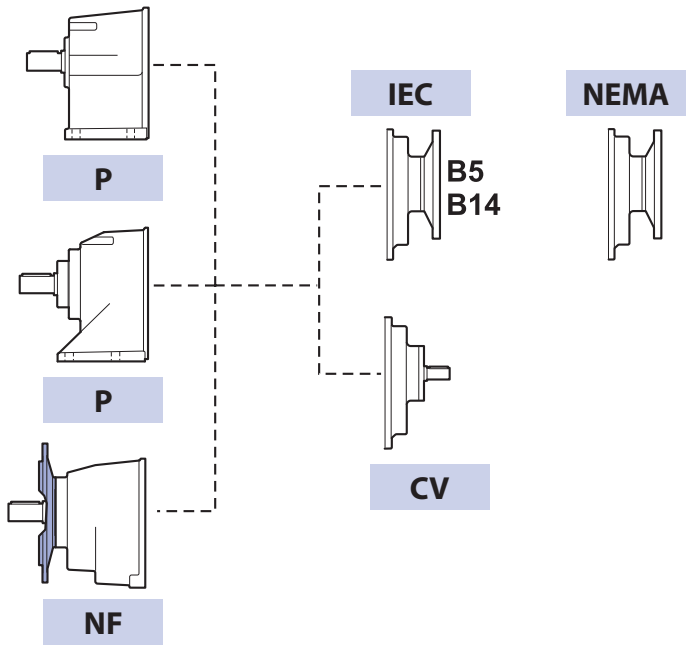
4.2 ***Construction shapes***

4.2 Formas de fabricación

RCV..1



RCV..2-3

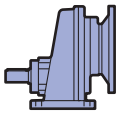


4.3 Designation — *4.3 Nomenclatura*

GEAR REDUCER / *REDUCTOR*

RCV	20	2	A	P	5.49	NEMA	B3	....

RCV — TYPE OF GEAR REDUCER / *TIPO DE REDUCTOR*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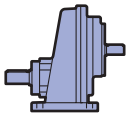
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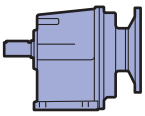
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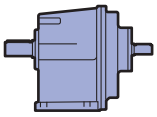

CV

20 — SIZE / *TAMANO DEL REDUCTOR*

14-19-24-28-38 — **16-20-25-30-35-45-55-58-60**

2 — N. OF STAGES OF REDUCTION / *N° ESTADOS DE REDUCCION*

1 — **2 - 3**

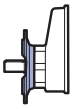
A — VERSION / *VERSION*

A (Aluminium / *Aluminuim*)
Only for / *Solo para*
202-252-253-302-303

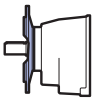
C (Cast iron / *Hierro fundido*)
For all sizes of reducer / *Para todos reductor*

P — STRUCTURAL SHAPE / *FORMA CONSTRUCTIVA*

P

NF

14-19-24-28-38

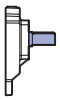
P

NF

16-20-25-30-35-45-55-58-60

5.49 — REDUCTION RATIO / *RELACION DE REDUCCION*

NEMA — TYPE OF INPUT / *TIPO DE ENTRADA*


IEC
B5/B14

NEMA

CV

B3 — ASSEMBLY POSITION / *POSICION DE MONTAJE*

.... — OPTIONS / *OPCIONES*

4.4 Lubricantion

All VARMEC gear reducers come lubricated with a synthetic oil.
• Gear reducers size RCV-CV 14-19-24-28-16-20-25-30-35 are supplied with life lubrication.
• Gear reducers size RCV-CV 38-45-55-58-60 are usually supplied without lubricant, unless specifically stated otherwise on the order form. Users must therefore add the correct quantity of oil using the oil gauge level before any initial start-up.
For this purpose gear reducers are fitted with an oil filling cap, an oil gauge and a drain plug.
For gear reducers supplied with lubricant, we recommend that once installation is complete customers should substitute the closed plug used only during transport with the oil breather supplied.
We ask that all customers specify their required mounting position so that we at Varmec can fit plugs in the best position for adequate lubrication
Gear reducers are fitted with self-lubricating bearings type 2RS wherever a mounting position requires a gear reducer with a vertical axle and consequently where the shaking of the oil during running times wouldn't be enough to guarantee a correct lubrication to the upper bearings.

4.4 Lubricantion

Todos los reductores de producción VARMEC son provistos de lubricación a aceite sintético.
• Los reductores de los tamaños RCV-CV 14-19-24-28-16-20-25-30-35 son equipados con lubricación permanente.
• Los reductores de la serie RCV-CV 38- 45-55-58-60 se suministran normalmente sin lubricante, sino está especificado en el pedido, y será el cliente quien antes de la puesta en marcha pondrá la cantidad necesaria de aceite refiriéndose a la línea mediana del tapón.
Los reductores llevan tapones de carga, descarga y nivel de aceite, para los reductores completos de lubricante se recomienda, después de la instalación de sustituir el tapón utilizado para el transporte con el tapón respiradero incluido.
Para preparar la correcta orientación de los tapones para una adecuada lubricación aconsejamos especificar siempre la posición de montaje deseada. En las posiciones de montaje de reductores con eje vertical, donde el batimiento del aceite durante el funcionamiento no es suficiente para garantizar la correcta lubricación de los cojinetes superiores, se instalan cojinetes lubricantes tipo 2RS.

4.5 Quantity of lubricant

4.5 Cantidad de lubricante

Tab.1

RCV	Assembly position / *Posición de montaje*																					
	B3		B5		B6		B7		B8		V1		V3		V5		V6	
141					0.042	[0.16]					0.050	[0.19]	0.040	[0.15]	0.05	[0.19]	0.040	[0.15]
191									0.074	[0.28]								
241									0.106	[0.4]								
281					0.185	[0.7]					0.106	[0.4]	0.264	[1]		0.185	[0.7]	
381	0.211	[0.8]	0.211	[0.8]	0.396	[1.5]	0.396	[1.5]	0.528	[2.0]	0.238	[0.9]	0.528	[2]	0.264	[1]	0.528	[2]
162					0.045	[0.17]					0.071	[0.27]	0.066	[0.25]	0.071	[0.27]	0.066	[0.25]
202A					0.53	[0.2]					0.087	[0.33]	0.074	[0.28]	0.087	[0.33]	0.074	[0.28]
202-203									0.145	[0.55]								
252A-253A					0.145	[0.55]					0.145	[0.55]	0.158	[0.6]	0.145	[0.55]	0.158	[0.6]
252-253									0.185	[0.7]								
302A					0.264	[1]					0.304	[1.15]	0.290	[1.1]	0.304	[1.15]	0.290	[1.1]
303A					0.264	[1]					0.356	[1.35]	0.343	[1.3]	0.356	[1.35]	0.343	[1.3]
302-303					0.343	[1.3]					0.396	[1.5]	0.343	[1.3]	0.396	[1.5]	0.343	[1.3]
352-353					0.343	[1.3]					0.396	[1.5]	0.343	[1.3]	0.396	[1.5]	0.343	[1.3]
452-453	0.660	[2.5]	0.607	[2.3]	0.607	[2.3]	0.607	[2.3]	0.528	[2]	0.766	[2.9]	0.898	[3.4]	0.792	[3]	0.898	[3.4]
552-553	1.003	[3.8]	0.924	[3.5]	0.924	[3.5]	0.924	[3.5]	0.792	[3]	1.188	[4.5]	1.531	[5.8]	1.320	[5]	1.531	[5.5]
582-583	1.294	[4.9]	1.294	[4.9]	1.294	[4.9]	1.294	[4.9]	1.478	[5.6]	1.927	[7.3]	2.244	[8.5]	1.927	[7.3]	2.244	[8.5]
602-603	2.244	[8.5]	2.244	[8.5]	2.112	[8]	2.112	[8]	2.244	[8.5]	3.300	[12.5]	3.168	[12]	3.300	[12.5]	3.168	[12]

Permanent lubrication / *Lubricación permanente*

Amount of oil expressed in gal [lt] / *Cantidad de aceite expresada en gal [lt]*

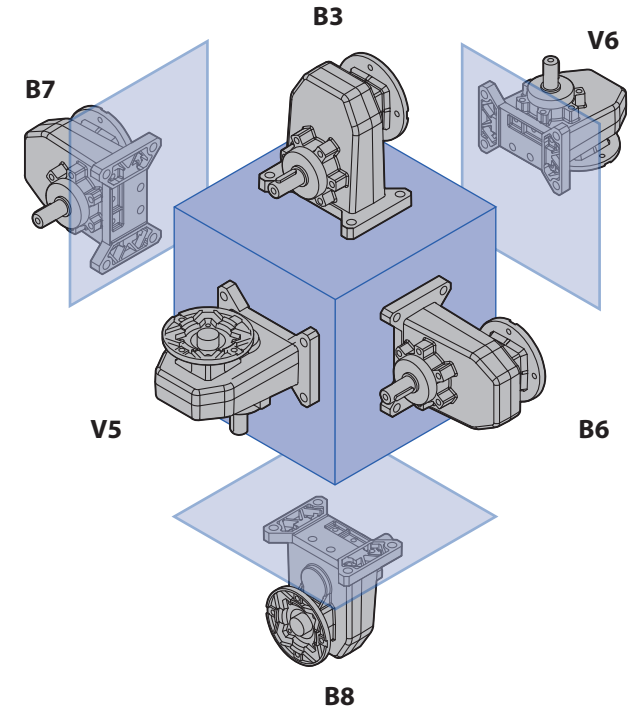
4.6 Assembly positions

The tables below should be used as a reference for the interpretation of the assembly positions, the position of the plugs and the quantities of lubricant.

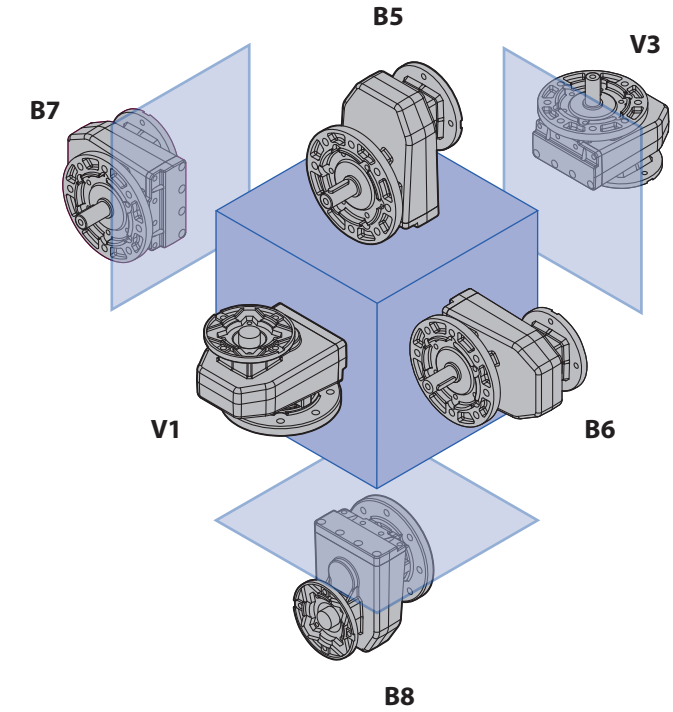
4.6 Posiciones de montaje

Las tablas siguientes sirven de referencia para interpretar las posiciones de montaje, la colocación de los tapones y la cantidad de lubricante.

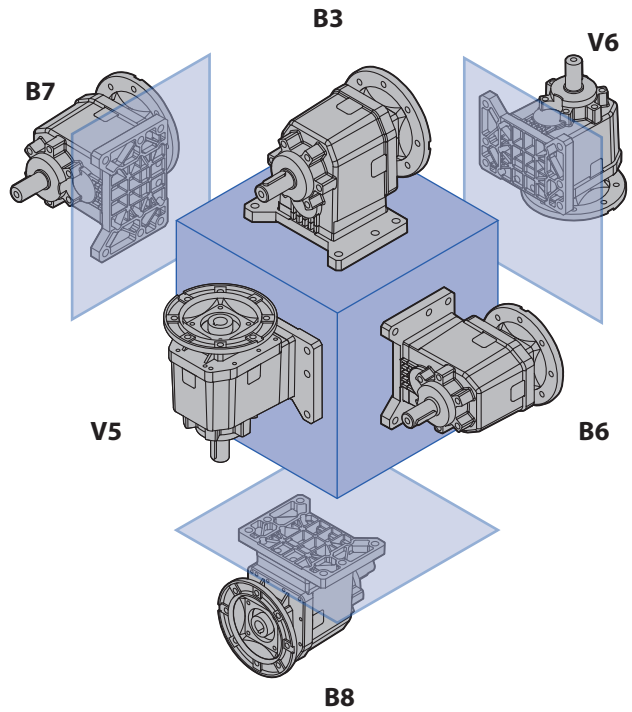
RCV..1 / P



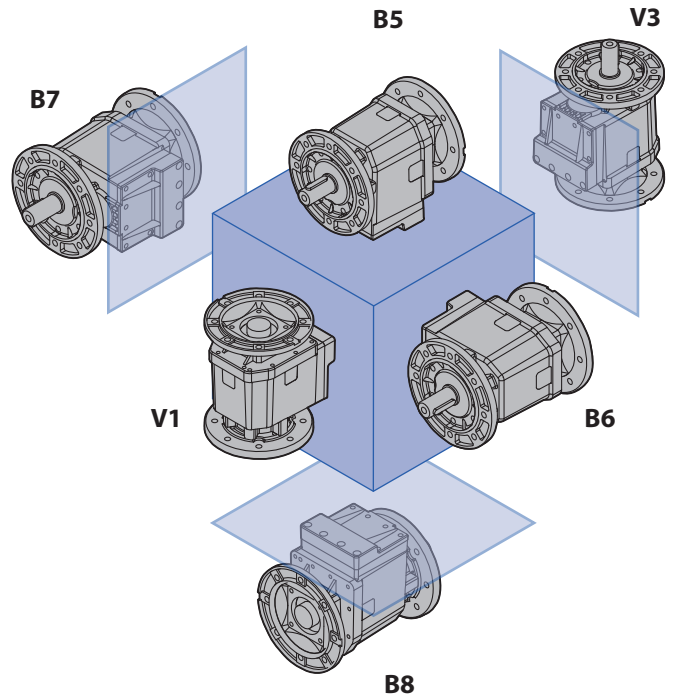
RCV..1 / NF



RCV..2-3 / P



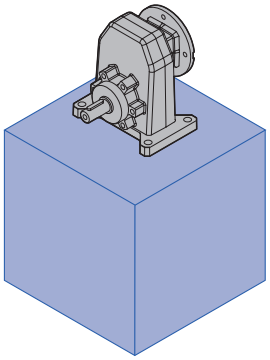
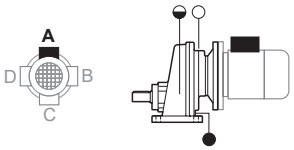
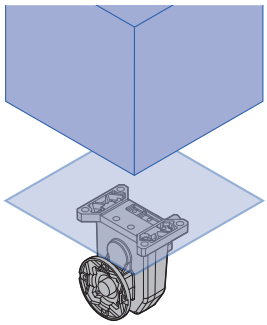
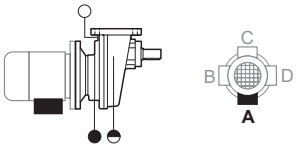
RCV..2-3 / NF

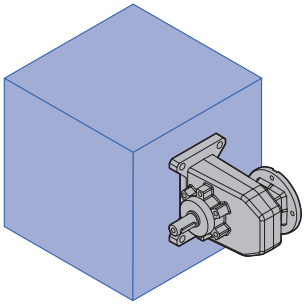
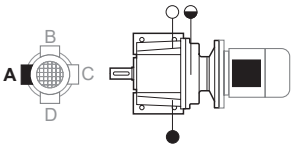
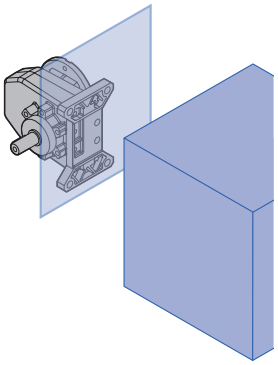
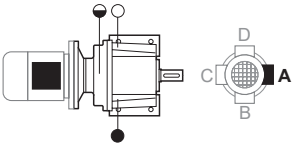


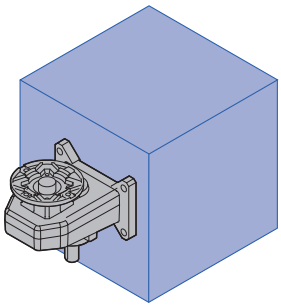
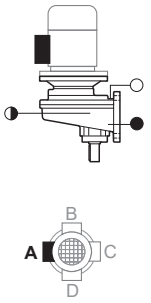
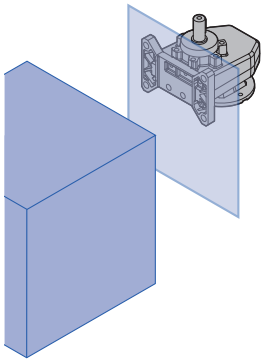
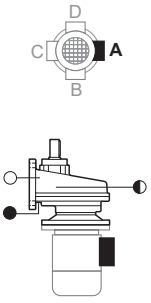
4.6 Assembly positions

4.6 Posiciones de montaje

RCV ...1 / P

B3	...NEMA	B8	...NEMA
			

B6	...NEMA	B7	...NEMA
			

V5	...NEMA	V6	...NEMA
			

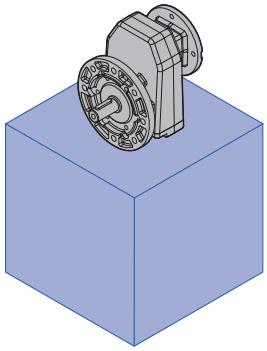
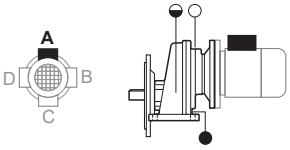
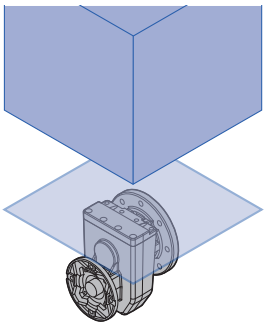
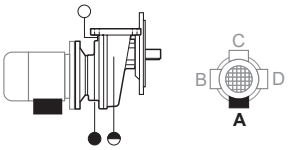
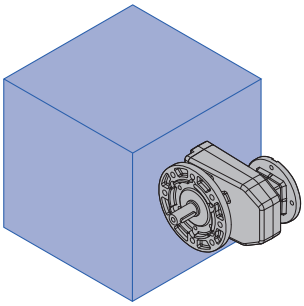
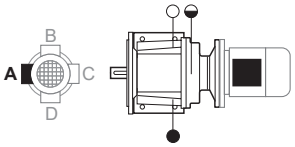
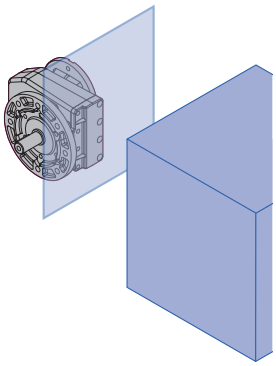
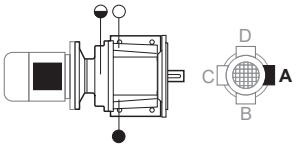
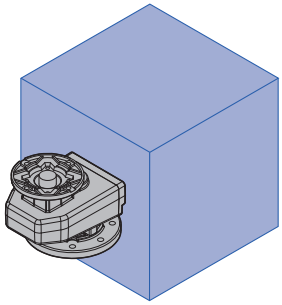
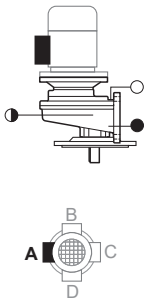
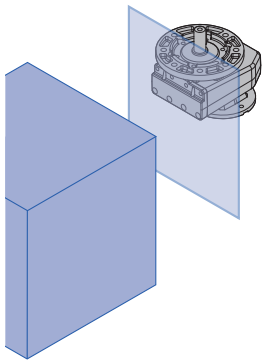
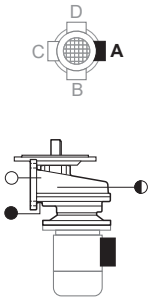
A = Standard

- ○ Filler cap / *Carga aceite*
- ◒ Oil level plug / *Nivel aceite*
- ● Drain plug / *Descarga de aceite*

4.6 Assembly positions

4.6 Posiciones de montaje

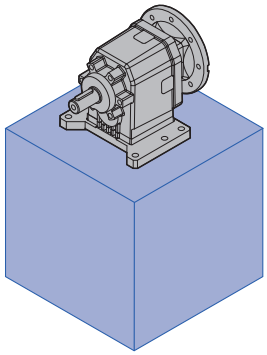
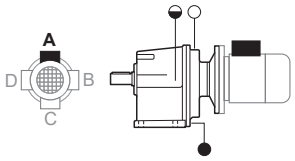
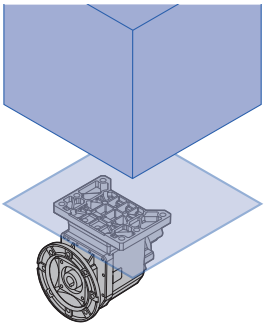
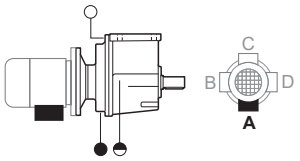
RCV ...1 / NF

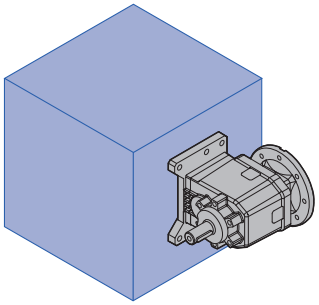
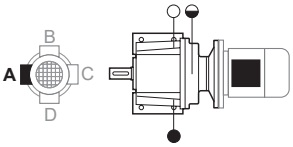
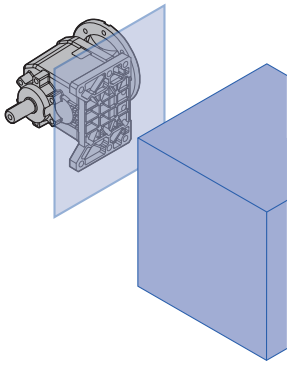
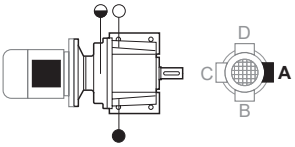
B5	...NEMA	B8	...NEMA
			
B6	**...NEMA**	**B7**	**...NEMA**
			
V1	**...NEMA**	**V3**	**...NEMA**
			

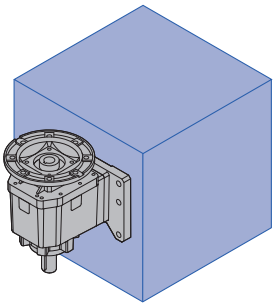
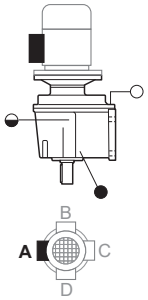
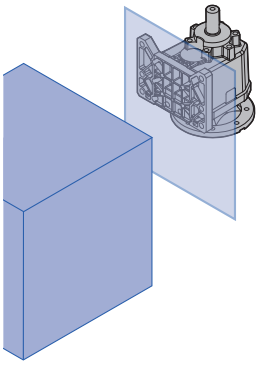
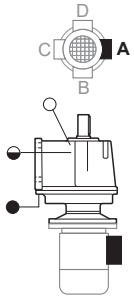
A = Standard

- ○ Filler cap / *Carga aceite*
- ◒ Oil level plug / *Nivel aceite*
- ● Drain plug / *Descarga de aceite*

RCV ...2-3 / P

B3	...NEMA	B8	...NEMA
			

B6	...NEMA	B7	...NEMA
			

V5	...NEMA	V6	...NEMA
			

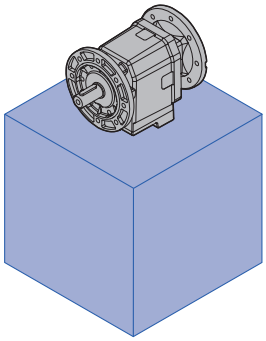
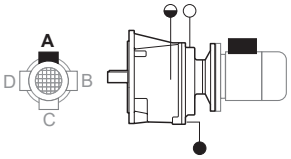
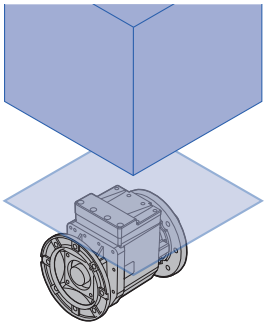
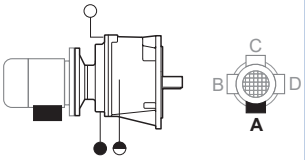
A = Standard

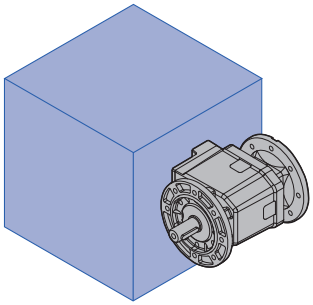
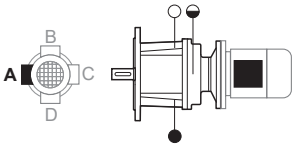
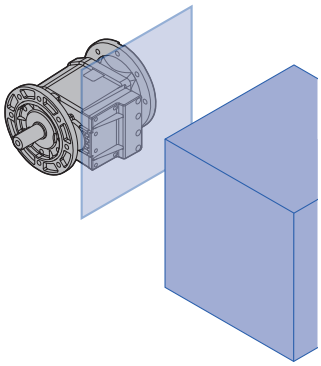
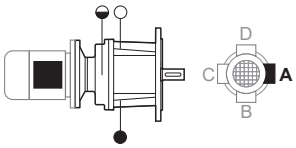
○ Filler cap / *Carga aceite*
◒ Oil level plug / *Nivel aceite*
● Drain plug / *Descarga de aceite*

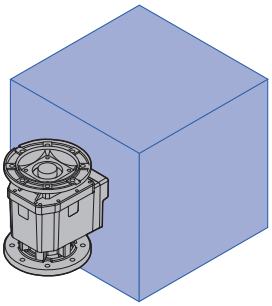
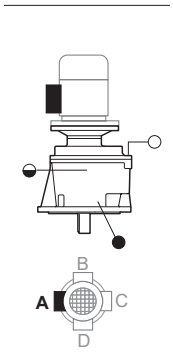
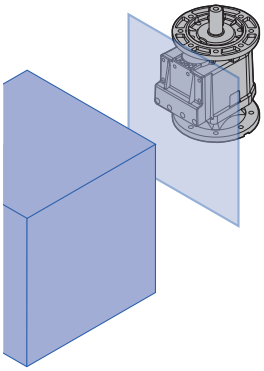
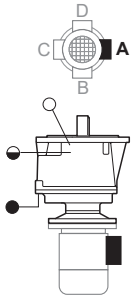
4.6 Assembly positions

4.6 Posiciones de montaje

RCV ...2-3 / NF

B5	...NEMA	B8	...NEMA
			

B6	...NEMA	B7	...NEMA
			

V1	...NEMA	V3	...NEMA
			

A = Standard

○ Filler cap / *Carga aceite*
◒ Oil level plug / *Nivel aceite*
● Drain plug / *Descarga de aceite*

4.7 Radial load

Any transmission device coupled to the input and output shaft generates radial loads.

The load values reported in the table, depending on input and output speed, are to be considered as acting at the half-way point of the projection; if the load is applied at 1/3 of the projection, increase the values in the table by 25%; if the load is applied at 2/3, reduce the values by 25%.

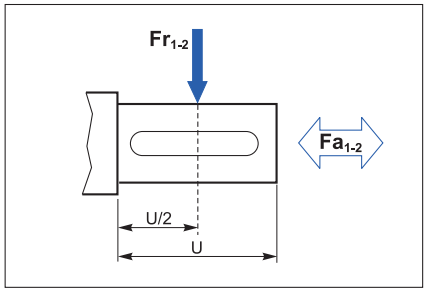
With regard to double projecting shafts, each end can sustain a radial load which equals 3/5 of the values listed in the table, on condition that they act in the same direction and have the same intensity.

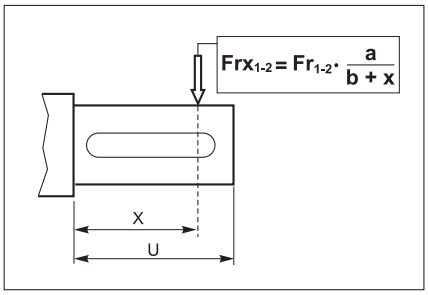
4.7 Cargas radiales

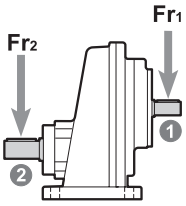
Cada clase de órgano de transmisión que es conectado al eje de entrada y salida determina cargas radiales.

Los valores señalados en la tabla en función a las varias velocidades de entrada y salida se suponen aplicándolas en la mitad del eje como fuerzas agentes a esta; para una ubicación de 1/3 de la longitud se aumentará hasta un 25% los valores de la tabla, mientras para una posición de 2/3 de la longitud se disminuirá los mismos valores a un 25%.

En los ejes con salida doble, cada extremidad puede soportar una carga radial igual a 3/5 del valor de la tabla, siempre y cuando las cargas aplicables sean de igual intensidad y reaccionen en el mismo sentido.



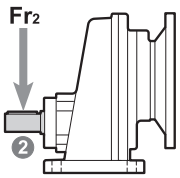




n_1 [min^{-1}]		Fr_1 CV				
		141	**191**	**241**	**281**	**381**
2800	lbf	111	166	166	222	388
	[N]	[200]	[300]	[300]	[400]	[700]
1400	lbf	166	277	277	333	583
	[N]	[300]	[500]	[500]	[600]	[1050]
900	lbf	194	322	322	388	677
	[N]	[350]	[580]	[580]	[700]	[1220]
700	lbf	211	350	350	422	732
	[N]	[380]	[630]	[630]	[760]	[1320]
500	lbf	239	388	388	472	821
	[N]	[430]	[700]	[700]	[850]	[1480]
300	lbf	277	460	460	555	971
	[N]	[500]	[830]	[830]	[1000]	[1750]
a	inch	2.413	2.984	2.984	3.898	4.709
	[mm]	[61.3]	[75.8]	[75.8]	[99]	[119.6]
b	inch	1.626	2.197	2.197	2.913	3.528
	[mm]	[41.3]	[55.8]	[55.8]	[74]	[89.6]

4.7 Radial load

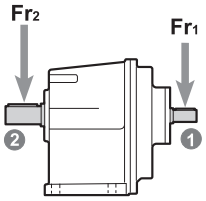
4.7 Cargas radiales



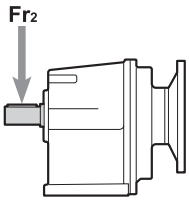
Fr_2						
n_2 [min^{-1}]		RCV - CV				
		141	191	241	281	381
900	lbf	388	388	388	804	1137
	[N]	[700]	[700]	[700]	[1450]	[2050]
600	lbf	444	555	555	888	1332
	[N]	[800]	[1000]	[1000]	[1600]	[2400]
450	lbf	527	610	610	971	1470
	[N]	[950]	[1100]	[1100]	[1750]	[2650]
400	lbf	527	638	638	1026	1526
	[N]	[950]	[1150]	[1150]	[1850]	[2750]
350	lbf	583	666	666	1054	1581
	[N]	[1050]	[1200]	[1200]	[1900]	[2850]
300	lbf	610	694	694	1110	1664
	[N]	[1100]	[1250]	[1250]	[2000]	[3000]
250	lbf	638	749	749	1193	1775
	[N]	[1150]	[1350]	[1350]	[2150]	[3200]
200	lbf	666	804	804	1276	1942
	[N]	[1200]	[1450]	[1450]	[2300]	[3500]
150	lbf	694	888	888	1415	2108
	[N]	[1250]	[1600]	[1600]	[2550]	[3800]
100	lbf	694	999	999	1609	2413
	[N]	[1250]	[1800]	[1800]	[2900]	[4350]
50	lbf	721	1276	1276	2053	3051
	[N]	[1300]	[2300]	[2300]	[3700]	[5500]
a	inch	3.465	3.937	3.091	3.878	4.626
	[mm]	[88]	[100]	[78.5]	[98.5]	[117.5]
b	inch	2.874	3.150	2.106	2.697	3.051
	[mm]	[73]	[80]	[53.5]	[68.5]	[77.5]

4.7 Radial load

4.7 Cargas radiales



Fr_1																
n_1 [min^{-1}]		CV														
		162	202 202A	203	252 252A	253 253A	302 302A	303 303A	352	353	452	453	552 582	553 583	602	603
2800	lbf	111	166	111	166	111	222	166	250	166	388	222	749	333	749	749
	[N]	[200]	[300]	[200]	[300]	[200]	[400]	[300]	[450]	[300]	[700]	[400]	[1350]	[600]	[1350]	[1350]
1400	lbf	166	277	166	277	166	333	277	388	277	583	333	1110	527	1110	1110
	[N]	[300]	[500]	[300]	[500]	[300]	[600]	[500]	[700]	[500]	[1050]	[600]	[2000]	[950]	[2000]	[2000]
900	lbf	194	322	194	322	194	388	322	449	322	677	388	1287	610	1287	1287
	[N]	[350]	[580]	[350]	[580]	[350]	[700]	[580]	[810]	[580]	[1220]	[700]	[2320]	[1100]	[2320]	[2320]
700	lbf	211	350	211	350	211	422	350	488	350	732	422	1398	666	1398	1398
	[N]	[380]	[630]	[380]	[630]	[380]	[760]	[630]	[880]	[630]	[1320]	[760]	[2520]	[1200]	[2520]	[2520]
500	lbf	239	388	239	388	239	472	388	544	388	821	472	1570	749	1570	1570
	[N]	[430]	[700]	[430]	[700]	[430]	[850]	[700]	[980]	[700]	[1480]	[850]	[2830]	[1350]	[2830]	[2830]
300	lbf	277	460	277	460	277	555	460	644	460	971	555	1859	888	1859	1859
	[N]	[500]	[830]	[500]	[830]	[500]	[1000]	[830]	[1160]	[830]	[1750]	[1000]	[3350]	[1600]	[3350]	[3350]
a	inch	2.413	2.984	2.413	2.984	2.413	3.898	2.984	3.898	2.984	4.709	3.898	6.339	4.709	6.339	6.339
	[mm]	[61.3]	[75.8]	[61.3]	[75.8]	[61.3]	[99]	[75.8]	[99]	[75.8]	[119.6]	[99]	[161]	[119.6]	[161]	[161]
b	inch	1.626	2.197	1.626	2.197	1.626	2.913	2.197	2.913	2.197	3.528	2.913	4.764	3.528	4.764	4.764
	[mm]	[41.3]	[55.8]	[41.3]	[55.8]	[41.3]	[74]	[55.8]	[74]	[55.8]	[89.6]	[74]	[121]	[89.6]	[121]	[121]



Fr_2										
n_2 [min^{-1}]		RCV-CV								
		162	202-203 202A	252-253 252A-253A	302-303	302A-303A	352-353	452-453	552-553	582-583	602-603
400	lbf	388	527	594	1082	1221	1720	2280	2691	3939	6103
	[N]	[700]	[950]	[1070]	[1950]	[2200]	[3100]	[4110]	[4850]	[7100]	[11000]
300	lbf	444	577	655	1126	1359	1775	2341	3301	4799	6269
	[N]	[800]	[1040]	[1180]	[2030]	[2450]	[3200]	[4220]	[5950]	[8650]	[11300]
250	lbf	444	671	766	1315	1426	1875	2474	3329	5132	6602
	[N]	[800]	[1210]	[1380]	[2370]	[2570]	[3380]	[4460]	[6000]	[9250]	[11900]
200	lbf	472	721	827	1420	1581	2008	2646	3606	5548	6658
	[N]	[850]	[1300]	[1490]	[2560]	[2850]	[3620]	[4770]	[6500]	[10000]	[12000]
150	lbf	555	793	910	1559	1720	2186	2879	4161	5714	6769
	[N]	[1000]	[1430]	[1640]	[2810]	[3100]	[3940]	[5190]	[7500]	[10300]	[12200]
100	lbf	610	960	1037	1786	1942	2469	3251	4716	7296	8045
	[N]	[1100]	[1730]	[1870]	[3220]	[3500]	[4450]	[5860]	[8500]	[13150]	[14500]
80	lbf	666	1082	1115	1920	2164	2630	3468	5271	7490	8766
	[N]	[1200]	[1950]	[2010]	[3460]	[3900]	[4740]	[6250]	[9500]	[13500]	[15800]
60	lbf	777	1221	1232	2119	2275	2874	3789	6103	9432	10319
	[N]	[1400]	[2200]	[2220]	[3820]	[4100]	[5180]	[6830]	[11000]	[17000]	[18600]
40	lbf	943	1332	1409	2424	2774	3246	4283	7767	10985	12039
	[N]	[1700]	[2400]	[2540]	[4370]	[5000]	[5850]	[7720]	[14000]	[19800]	[21700]
20	lbf	1110	1664	1775	3051	3051	3995	5271	8877	13870	14980
	[N]	[2000]	[3000]	[3200]	[5500]	[5500]	[7200]	[9500]	[16000]	[25000]	[27000]
a	inch	3.327	3.858	3.543	3.720	5.846	5.000	5.354	7.087	8.622	9.862
	[mm]	[84.5]	[98]	[90]	[94.5]	[148.5]	[127]	[136]	[180]	[219]	[250.5]
b	inch	2.539	3.071	2.559	2.539	4.665	3.425	3.583	4.921	6.260	7.500
	[mm]	[64.5]	[78]	[65]	[64.5]	[118.5]	[87]	[91]	[125]	[159]	[190.5]

4.8 Technical data

4.8 Datos técnicos

RCV	i	n_1= 1750 min^{-1}					FS'	NEMA
		n_2 min^{-1}	T_2 Ft•lb	T_2 Nm	P_1 Hp	P_1 kW		
141	*1.29*	**1357**	**11**	15	**2.9**	2.2	1.0	56
	2.33	**751**	**18**	24	**2.6**	1.9		
	2.79	**627**	**20**	27	**2.4**	1.8		
	3.4	**515**	**20**	27	**2.0**	1.5		
	4.24	**413**	**21**	28	**1.7**	1.2		
	4.79	**365**	**21**	29	**1.5**	1.1		
	5.47	**320**	**21**	29	**1.3**	0.99		
	7.46	**235**	**22**	30	**1.0**	0.75		
	8.17	**214**	**22**	30	**0.92**	0.69		
191	*1.26*	**1389**	**15**	20	**4.0**	3.0	1.0	140 / 56
	2.23	**785**	**22**	30	**3.4**	2.5		
	2.73	**641**	**23**	31	**2.8**	2.1		
	3.22	**543**	**24**	32	**2.5**	1.9		
	4.11	**426**	**30**	41	**2.5**	1.9		
	4.71	**372**	**32**	44	**2.3**	1.7		
	5.47	**320**	**32**	44	**2.0**	1.5		
	7.82	**224**	**35**	47	**1.5**	1.1		
	9.78	**179**	**37**	50	**1.3**	0.96		
241	*1.26*	**1389**	**15**	20	**4.0**	3.0	1.0	140 / 56
	2.23	**785**	**22**	30	**3.4**	2.5		
	2.73	**641**	**23**	31	**2.8**	2.1		
	3.22	**543**	**24**	32	**2.5**	1.9		
	4.11	**426**	**30**	41	**2.5**	1.9		
	4.71	**372**	**32**	44	**2.3**	1.7		
	5.47	**320**	**32**	44	**2.0**	1.5		
	7.82	**224**	**35**	47	**1.5**	1.1		
	9.78	**179**	**37**	50	**1.3**	0.96		
281	*1.14*	**1535**	**30**	40	**8.8**	6.6	1.0	180 / 140
	1.56	**1122**	**35**	47	**7.6**	5.6		
	2.29	**764**	**45**	61	**6.7**	5.0		
	2.83	**618**	**53**	72	**6.4**	4.8		
	3.38	**518**	**53**	72	**5.3**	4.0		
	3.84	**456**	**53**	72	**4.7**	3.5		
	4.41	**397**	**54**	73	**4.2**	3.1		
	5.57	**314**	**61**	82	**3.7**	2.8		
	7.36	**238**	**80**	108	**3.7**	2.7		
381	*1.63*	**1074**	**68**	92	**14.2**	10.6	1.0	210 / 180 / 140
	2.29	**764**	**69**	94	**10.3**	7.7		
	3	**583**	**81**	110	**9.2**	6.9		
	3.38	**518**	**81**	110	**8.2**	6.1		
	4.11	**426**	**85**	115	**7.0**	5.2		
	4.75	**368**	**93**	126	**6.7**	5.0		
	5.57	**314**	**96**	130	**5.9**	4.4		
	7.36	**238**	**97**	132	**4.5**	3.4		
	10.4	**168**	**102**	138	**3.3**	2.48		

lb E23

4.8 Technical data

4.8 Datos técnicos

RCV	i	n_1 = 1750 min^{-1}					FS'	NEMA
		n_2 min^{-1}	T_2 Ft•lb	T_2 Nm	P_1 Hp	P_1 kW		
162	*3.7*	**473**	**27**	37	**2.6**	1.9	1.0	56
	5.1	**343**	**30**	41	**2.1**	1.6		
	7.11	**246**	**35**	48	**1.7**	1.3		
	7.62	**230**	**35**	47	**1.6**	1.2		
	9.8	**179**	**40**	54	**1.4**	1.1		
	11.95	**146**	**44**	60	**1.3**	1.0		
	14.63	**120**	**46**	62	**1.1**	0.82		
	16.47	**106**	**47**	64	**1.0**	0.75		
	20.74	**84**	**49**	66	**0.82**	0.61		
	24.59	**71**	**51**	69	**0.73**	0.54		
	25.51	**69**	**49**	66	**0.67**	0.50		
	28.57	**61**	**49**	67	**0.61**	0.45		
	35.14	**50**	**49**	66	**0.49**	0.36		
	42.67	**41**	**51**	69	**0.42**	0.31		
	52.48	**33**	**52**	71	**0.35**	0.26		
202A	*3.81*	**459**	**38**	52	**3.5**	2.6	1.0	140 56
	4.66	**376**	**45**	61	**3.4**	2.5		
	5.49	**319**	**54**	73	**3.4**	2.6		
	6.46	**271**	**52**	70	**2.8**	2.1		
	7.75	**226**	**53**	72	**2.4**	1.8		
	8.57	**204**	**54**	73	**2.2**	1.6		
	9.92	**176**	**57**	77	**2.0**	1.5		
	11.67	**150**	**58**	78	**1.7**	1.3		
	14	**125**	**58**	78	**1.4**	1.1		
	15.48	**113**	**58**	78	**1.3**	0.97		
	18.01	**97**	**72**	97	**1.4**	1.0		
	21.19	**83**	**71**	96	**1.2**	0.87		
	25.43	**69**	**78**	106	**1.1**	0.80		
	28.13	**62**	**76**	103	**0.95**	0.71		
	31.71	**55**	**80**	108	**0.88**	0.66		
	37.31	**47**	**79**	107	**0.74**	0.55		
	44.77	**39**	**79**	107	**0.62**	0.46		
	49.52	**35**	**77**	104	**0.54**	0.41		
	54.2	**32**	**76**	103	**0.49**	0.37		
	60.43	**29**	**66**	90	**0.39**	0.29		
202	*3.81*	**459**	**38**	52	**3.5**	2.6	1.0	140 56
	4.66	**376**	**45**	61	**3.4**	2.5		
	5.49	**319**	**54**	73	**3.4**	2.6		
	6.46	**271**	**52**	70	**2.8**	2.1		
	7.75	**226**	**53**	72	**2.4**	1.8		
	8.57	**204**	**54**	73	**2.2**	1.6		
	9.92	**176**	**57**	77	**2.0**	1.5		
	11.67	**150**	**58**	78	**1.7**	1.3		
	14	**125**	**58**	78	**1.4**	1.1		
	15.48	**113**	**58**	78	**1.3**	0.97		
	18.01	**97**	**72**	97	**1.4**	1.0		
	21.19	**83**	**71**	96	**1.2**	0.87		
	25.43	**69**	**78**	106	**1.1**	0.80		
	28.13	**62**	**76**	103	**0.95**	0.71		
	31.71	**55**	**80**	108	**0.88**	0.66		
	37.31	**47**	**79**	107	**0.74**	0.55		
	44.77	**39**	**79**	107	**0.62**	0.46		
	49.52	**35**	**77**	104	**0.54**	0.41		
	54.2	**32**	**76**	103	**0.49**	0.37		
	60.43	**29**	**66**	90	**0.39**	0.29		

4.8 Technical data — *4.8 Datos técnicos*

RCV	i	n_1 = 1750 min^{-1}					FS'	NEMA
		n_2 min^{-1}	T_2 Ft•lb	T_2 Nm	P_1 Hp	P_1 kW		
203	*58.1*	**30**	**79**	107	**0.49**	0.36	1.0	56
	64.3	**27**	**77**	104	**0.43**	0.32		
	69.2	**25**	**80**	109	**0.42**	0.31		
	81.4	**21**	**80**	108	**0.35**	0.26		
	97.7	**18**	**79**	107	**0.29**	0.22		
	108.1	**16**	**77**	105	**0.26**	0.19		
	120.1	**15**	**80**	109	**0.24**	0.18		
	141.3	**12**	**80**	108	**0.20**	0.15		
	169.5	**10**	**80**	108	**0.17**	0.13		
	187.5	**9**	**79**	107	**0.15**	0.11		
252A	*3.7*	**473**	**71**	96	**6.7**	5.0	1.0	140 / 56
	4.33	**404**	**83**	112	**6.7**	5.0		
	5.02	**349**	**97**	132	**6.8**	5.1		
	5.92	**296**	**106**	143	**6.2**	4.7		
	6.47	**270**	**108**	146	**5.8**	4.4		
	7.88	**222**	**108**	147	**4.8**	3.6		
	8.93	**196**	**113**	153	**4.4**	3.3		
	9.41	**186**	**112**	152	**4.2**	3.1		
	10.53	**166**	**115**	156	**3.8**	2.9		
	11.51	**152**	**112**	152	**3.4**	2.55		
	14.01	**125**	**113**	153	**2.8**	2.1		
	16.42	**107**	**142**	192	**3.0**	2.26		
	19.35	**90**	**149**	202	**2.7**	2.01		
	21.16	**83**	**145**	196	**2.40**	1.79		
	25.75	**68**	**139**	189	**1.90**	1.42		
	31.27	**56**	**150**	203	**1.68**	1.25		
	36.86	**47**	**152**	206	**1.45**	1.08		
	40.29	**43**	**147**	199	**1.28**	0.95		
	49.04	**36**	**141**	191	**1.01**	0.75		
	53.95	**32**	**129**	175	**0.84**	0.63		
	61.33	**29**	**132**	179	**0.76**	0.56		
	67.47	**26**	**129**	175	**0.67**	0.50		
253A	*63.09*	**28**	**132**	179	**0.75**	0.56	1.0	56
	74.36	**24**	**139**	188	**0.67**	0.50		
	81.29	**22**	**140**	190	**0.62**	0.46		
	98.94	**18**	**143**	194	**0.52**	0.39		
	108.83	**16**	**142**	193	**0.47**	0.35		
	120.15	**15**	**151**	205	**0.45**	0.34		
	141.61	**12**	**159**	215	**0.40**	0.30		
	154.81	**11**	**152**	206	**0.35**	0.26		
	188.42	**9**	**141**	191	**0.27**	0.20		
	207.26	**8**	**135**	183	**0.23**	0.17		

lb E23

4.8 Technical data

4.8 Datos técnicos

RCV	i	n_1= 1750 min^{-1}						
		n_2 min^{-1}	T_2 Ft•lb	T_2 Nm	P_1 Hp	P_1 kW	FS'	NEMA
252	*3.7*	**473**	**71**	96	**6.7**	5.0	1.0	140
	4.33	**404**	**83**	112	**6.7**	5.0		
	5.02	**349**	**97**	132	**6.8**	5.1		
	5.92	**296**	**106**	143	**6.2**	4.7		
	6.47	**270**	**108**	146	**5.8**	4.4		
	7.88	**222**	**108**	147	**4.8**	3.6		
	8.93	**196**	**113**	153	**4.4**	3.3		
	9.41	**186**	**112**	152	**4.2**	3.1		
	10.53	**166**	**115**	156	**3.8**	2.9		
	11.51	**152**	**112**	152	**3.4**	2.55		
	14.01	**125**	**113**	153	**2.8**	2.1		56
	16.42	**107**	**142**	192	**3.0**	2.26		
	19.35	**90**	**149**	202	**2.7**	2.01		
	21.16	**83**	**145**	196	**2.40**	1.79		
	25.75	**68**	**139**	189	**1.90**	1.42		
	31.27	**56**	**150**	203	**1.68**	1.25		
	36.86	**47**	**152**	206	**1.45**	1.08		
	40.29	**43**	**147**	199	**1.28**	0.95		
	49.04	**36**	**141**	191	**1.01**	0.75		
	53.95	**32**	**129**	175	**0.84**	0.63		
	61.33	**29**	**132**	179	**0.76**	0.56		
	67.47	**26**	**129**	175	**0.67**	0.50		
253	*60.1*	**29**	**141**	191	**0.84**	0.63	1.0	56
	69.6	**25**	**151**	205	**0.78**	0.58		
	82	**21**	**153**	207	**0.67**	0.50		
	89.7	**20**	**148**	201	**0.59**	0.44		
	109.1	**16**	**142**	193	**0.47**	0.35		
	122.5	**14**	**152**	206	**0.44**	0.33		
	144.4	**12**	**154**	208	**0.38**	0.28		
	157.9	**11**	**149**	202	**0.34**	0.25		
	192.1	**9**	**145**	197	**0.27**	0.20		
302	*3.74*	**468**	**179**	243	**16.8**	12.5	1.0	180
	4.56	**384**	**190**	258	**14.6**	10.9		
	5.11	**342**	**185**	251	**12.7**	9.5		
	6.22	**281**	**187**	253	**10.5**	7.8		
	6.93	**253**	**186**	252	**9.4**	7.0		
	7.51	**233**	**182**	246	**8.5**	6.3		
	7.78	**225**	**193**	261	**8.7**	6.5		
	9.14	**191**	**213**	288	**8.2**	6.1		
	10.18	**172**	**218**	296	**7.5**	5.6		140
	11.43	**153**	**225**	305	**6.9**	5.1		
	12.62	**139**	**206**	279	**5.7**	4.3		
	15.37	**114**	**218**	295	**5.0**	3.7		
	17.11	**102**	**224**	303	**4.6**	3.4		
	19.21	**91**	**229**	310	**4.2**	3.1		
	24.19	**72**	**210**	285	**3.0**	2.3		
	29.45	**59**	**221**	300	**2.6**	2.0		
	32.8	**53**	**227**	308	**2.4**	1.8		
	36.82	**48**	**232**	315	**2.2**	1.7		

lb E23

4.8 Technical data — *4.8 Datos técnicos*

RCV	i	n_1= 1750 min^{-1}					FS'	NEMA
		n_2 min^{-1}	T_2 Ft•lb	T_2 Nm	P_1 Hp	P_1 kW		
303	*41.2*	**42**	**229**	310	**1.99**	1.48	1.0	140 56
	46.2	**38**	**233**	316	**1.81**	1.35		
	54	**32**	**214**	290	**1.42**	1.06		
	65.8	**27**	**224**	304	**1.22**	0.91		
	73.6	**24**	**229**	310	**1.11**	0.83		
	82.2	**21**	**234**	317	**1.02**	0.76		
	99.3	**18**	**215**	292	**0.78**	0.58		
	120.9	**14**	**226**	306	**0.67**	0.50		
	134.7	**13**	**232**	314	**0.62**	0.46		
	151.1	**12**	**236**	320	**0.56**	0.42		
	189.2	**9**	**221**	299	**0.42**	0.31		
	230.3	**8**	**236**	320	**0.37**	0.27		
	256.5	**7**	**246**	334	**0.34**	0.26		
	287.9	**6**	**255**	346	**0.32**	0.24		
302A	*3.78*	**463**	**114**	155	**10.6**	7.9	1.0	140 56
	4.4	**398**	**131**	177	**10.4**	7.8		
	5.2	**337**	**147**	199	**9.9**	7.4		
	6.27	**279**	**156**	211	**8.7**	6.5		
	7.76	**226**	**168**	227	**7.6**	5.6		
	8.75	**200**	**178**	241	**7.1**	5.3		
	10.18	**172**	**187**	254	**6.5**	4.8		
	12.03	**145**	**196**	265	**5.7**	4.2		
	14.5	**121**	**208**	282	**5.0**	3.8		
	17.95	**97**	**215**	291	**4.2**	3.1		
	19.58	**89**	**230**	311	**4.1**	3.1		
	22.8	**77**	**246**	333	**3.8**	2.8		
	26.94	**65**	**258**	349	**3.4**	2.5		
	32.45	**54**	**249**	337	**2.7**	2.0		
	40.18	**44**	**221**	300	**1.9**	1.4		
	44.06	**40**	**226**	306	**1.8**	1.3		
	46.59	**38**	**234**	317	**1.8**	1.3		
	53.08	**33**	**254**	344	**1.7**	1.3		
	57.69	**30**	**221**	299	**1.3**	1.0		
	65.72	**27**	**220**	298	**1.2**	0.9		
303A	*64.91*	**27**	**272**	369	**1.50**	1.1	1.0	140 56
	75.58	**23**	**275**	373	**1.30**	0.97		
	89.31	**20**	**271**	367	**1.09**	0.81		
	107.61	**16**	**266**	361	**0.89**	0.66		
	125.53	**14**	**263**	357	**0.75**	0.56		
	133.23	**13**	**236**	320	**0.63**	0.47		
	146.18	**12**	**259**	351	**0.63**	0.47		
	172.72	**10**	**258**	349	**0.53**	0.40		
	181.4	**10**	**254**	344	**0.50**	0.37		
	208.12	**8**	**272**	368	**0.47**	0.35		
	249.59	**7**	**280**	379	**0.40**	0.30		
	300.74	**6**	**280**	380	**0.33**	0.25		
	372.35	**5**	**244**	330	**0.23**	0.17		

lb E23

4.8 Technical data

4.8 Datos técnicos

RCV	i	n_1 = 1750 min^{-1}					FS'	NEMA
		n_2 min^{-1}	T_2 Ft•lb	T_2 Nm	P_1 Hp	P_1 kW		
352	*3.74*	**468**	**232**	314	**21.7**	16.2	1.0	180
	4.56	**384**	**245**	332	**18.8**	14.0		
	5.11	**342**	**255**	346	**17.5**	13.1		
	6.22	**281**	**269**	364	**15.1**	11.3		
	6.93	**253**	**276**	374	**14.0**	10.4		
	7.51	**233**	**260**	352	**12.1**	9.0		
	7.78	**225**	**283**	384	**12.8**	9.5		
	9.14	**191**	**273**	370	**10.5**	7.8		
	10.18	**172**	**281**	381	**9.7**	7.2		
	11.43	**153**	**289**	391	**8.8**	6.6		140
	12.62	**139**	**266**	360	**7.4**	5.5		
	15.37	**114**	**280**	379	**6.4**	4.8		
	17.11	**102**	**286**	388	**5.9**	4.4		
	19.21	**91**	**294**	399	**5.4**	4.0		
	24.19	**72**	**272**	369	**3.9**	2.9		
	29.45	**59**	**288**	390	**3.4**	2.6		
	32.8	**53**	**292**	396	**3.1**	2.3		
	36.82	**48**	**297**	403	**2.8**	2.1		
353	*41.2*	**42**	**292**	396	**2.54**	1.9	1.0	140
	46.2	**38**	**300**	406	**2.32**	1.7		
	54	**32**	**275**	372	**1.82**	1.4		
	65.8	**27**	**289**	391	**1.57**	1.2		
	73.6	**24**	**294**	398	**1.43**	1.1		
	82.2	**21**	**301**	408	**1.31**	0.98		
	99.3	**18**	**278**	377	**1.00**	0.75		
	120.9	**14**	**290**	393	**0.86**	0.64		56
	134.7	**13**	**295**	400	**0.78**	0.59		
	151.1	**12**	**303**	411	**0.72**	0.54		
	189.2	**9**	**283**	383	**0.53**	0.40		
	230.3	**8**	**301**	408	**0.47**	0.35		
	256.5	**7**	**316**	428	**0.44**	0.33		
	287.9	**6**	**325**	440	**0.40**	0.30		
452	*4.42*	**396**	**424**	574	**33.6**	25.1	1.0	210
	4.89	**358**	**422**	572	**30.3**	22.6		
	5.43	**322**	**423**	573	**27.3**	20.4		
	6.07	**288**	**421**	571	**24.3**	18.1		
	8.14	**215**	**458**	621	**19.7**	14.7		
	9	**194**	**472**	640	**18.4**	13.7		
	10	**175**	**486**	659	**17.0**	12.7		
	11.18	**157**	**489**	662	**15.3**	11.4		
	12.89	**136**	**468**	634	**12.7**	9.5		
	14.25	**123**	**481**	652	**11.8**	8.8		
	15.83	**111**	**495**	671	**11.0**	8.2		180
	17.7	**99**	**497**	674	**9.9**	7.3		
	19.99	**88**	**477**	646	**8.4**	6.2		140
	22.09	**79**	**492**	667	**7.8**	5.8		
	24.55	**71**	**504**	683	**7.2**	5.4		
	27.45	**64**	**504**	683	**6.4**	4.8		
	30.93	**57**	**518**	702	**5.9**	4.4		
	31.2	**56**	**448**	607	**5.0**	3.8		
	34.67	**50**	**497**	674	**5.0**	3.8		
	38.76	**45**	**408**	553	**3.7**	2.8		
	43.68	**40**	**460**	623	**3.7**	2.8		

lb E23

4.8 Technical data

4.8 Datos técnicos

RCV	i	n_1 = 1750 min^{-1}					FS'	NEMA
		n_2 min^{-1}	T_2 Ft•lb	T_2 Nm	P_1 Hp	P_1 kW		
453	*31.1*	**56**	**482**	653	**5.55**	4.1	1.0	180 140
	34.4	**51**	**494**	669	**5.14**	3.8		
	38.2	**46**	**508**	688	**4.76**	3.5		
	42.7	**41**	**508**	688	**4.26**	3.2		
	45.7	**38**	**484**	656	**3.79**	2.8		
	50.5	**35**	**497**	674	**3.53**	2.63		
	56.1	**31**	**511**	692	**3.26**	2.43		
	62.7	**28**	**512**	694	**2.92**	2.18		
	76.8	**23**	**487**	660	**2.27**	1.69		
	84.9	**21**	**499**	676	**2.10**	1.57		
	94.3	**19**	**515**	698	**1.96**	1.46		
	105.5	**17**	**511**	693	**1.74**	1.29		
	123.81	**14**	**539**	730	**1.56**	1.16		
	147.2	**12**	**488**	661	**1.19**	0.88		
	162.7	**11**	**501**	679	**1.10**	0.82		
	180.7	**10**	**523**	708	**1.04**	0.77		
	202.1	**9**	**528**	716	**0.94**	0.70		
	227.7	**8**	**553**	749	**0.87**	0.65		
552	*2.78*	**629**	**406**	550	**51.2**	38.2	1.0	280 250 210 180
	3.17	**552**	**413**	560	**45.7**	34.1		
	3.68	**476**	**449**	608	**42.7**	31.9		
	4.16	**421**	**487**	660	**41.0**	30.6		
	4.57	**383**	**540**	732	**41.4**	30.9		
	5.5	**318**	**583**	790	**37.2**	27.7		
	6.03	**290**	**594**	805	**34.5**	25.8		
	7.39	**237**	**644**	872	**30.5**	22.8		
	8.39	**209**	**677**	917	**28.3**	21.1		250 210 180
	9.49	**184**	**694**	941	**25.7**	19.1		
	11	**159**	**790**	1070	**25.2**	18.8		
	12.07	**145**	**739**	1002	**21.5**	16.0		
	14.19	**123**	**849**	1150	**21.0**	15.6		
	15.56	**112**	**797**	1080	**18.0**	13.4		
	19.06	**92**	**848**	1149	**15.6**	11.6		
	22.74	**77**	**871**	1180	**13.4**	10.0		210 180
	24.94	**70**	**883**	1197	**12.4**	9.3		
	30.55	**57**	**892**	1208	**10.2**	7.6		
	35.01	**50**	**888**	1203	**8.9**	6.6		
	38.4	**46**	**882**	1195	**8.1**	6.0		
	47.03	**37**	**832**	1128	**6.2**	4.6		
	53.46	**33**	**742**	1005	**4.9**	3.6		
	65.48	**27**	**689**	934	**3.7**	2.8		
553	*70.22*	**25**	**819**	1110	**4.18**	3.1	1.0	210 180 140
	88.88	**20**	**871**	1180	**3.51**	2.6		
	108.86	**16**	**813**	1101	**2.67**	2.0		
	118.46	**15**	**884**	1198	**2.67**	2.0		
	125.58	**14**	**821**	1112	**2.34**	1.7		
	145.09	**12**	**813**	1101	**2.01**	1.50		
	170.18	**10**	**874**	1184	**1.84**	1.37		
	183.64	**10**	**857**	1161	**1.67**	1.25		
	224.93	**8**	**840**	1138	**1.34**	1.00		
	259.37	**7**	**847**	1148	**1.17**	0.87		
	317.7	**6**	**889**	1205	**1.00**	0.75		

lb E23

4.8 Technical data

4.8 Datos técnicos

RCV	i	n_1 = 1750 min^{-1}						
		n_2 min^{-1}	T_2 Ft•lb	T_2 Nm	P_1 Hp	P_1 kW	FS'	NEMA
582	*4.64*	**377**	**1043**	1413	**78.8**	58.7	1.0	280 250 210 180
	5.04	**347**	**1086**	1471	**75.5**	56.3		
	6.03	**290**	**1125**	1525	**65.4**	48.8		
	7.38	**237**	**1183**	1603	**56.2**	41.9		
	8.61	**203**	**1277**	1731	**52.0**	38.8		
	9.36	**187**	**1344**	1821	**50.3**	37.5		
	11.2	**156**	**1393**	1888	**43.6**	32.5		
	13.71	**128**	**1410**	1911	**36.1**	26.9		
	15.03	**116**	**1511**	2047	**35.2**	26.3		
	16.34	**107**	**1564**	2119	**33.5**	25.0		
	19.55	**90**	**1544**	2092	**27.7**	20.6		
	23.93	**73**	**1489**	2017	**21.8**	16.3		
	24.99	**70**	**1555**	2107	**21.8**	16.3		250 210 180
	27.16	**64**	**1625**	2202	**21.0**	15.6		
	30.24	**58**	**1664**	2255	**19.3**	14.4		
	32.5	**54**	**1602**	2171	**17.3**	12.9		
	36.18	**48**	**1584**	2146	**15.3**	11.4		
	39.79	**44**	**1485**	2012	**13.1**	9.8		
	44.29	**40**	**1505**	2039	**11.9**	8.9		
583	*47.02*	**37**	**1491**	2021	**11.4**	8.5	1.0	210 180 140
	56.26	**31**	**1627**	2205	**10.4**	7.7		
	61.71	**28**	**1584**	2146	**9.2**	6.9		
	73.85	**24**	**1633**	2213	**7.9**	5.9		
	90.39	**19**	**1602**	2171	**6.3**	4.7		
	97.71	**18**	**1645**	2229	**6.0**	4.5		
	116.92	**15**	**1640**	2222	**5.0**	3.7		
	139.38	**13**	**1649**	2235	**4.2**	3.2		
	143.12	**12**	**1579**	2139	**3.9**	2.9		
	151.48	**12**	**1652**	2239	**3.9**	2.9		
	181.26	**10**	**1668**	2260	**3.3**	2.5		
	196.86	**9**	**1688**	2287	**3.1**	2.3		
	213.94	**8**	**1710**	2317	**2.9**	2.1		
	221.87	**8**	**1613**	2185	**2.6**	1.9		
	256	**7**	**1739**	2356	**2.4**	1.8		
	313.35	**6**	**1639**	2221	**1.9**	1.4		

lb E23

4.8 Technical data

4.8 Datos técnicos

RCV	i	n_1 = 1750 min^{-1}					FS'	
		n_2 min^{-1}	T_2 Ft•lb	T_2 Nm	P_1 Hp	P_1 kW		NEMA
602	*4.64*	**377**	**1221**	1654	**92.2**	68.8	1.0	280 250 210 180
	5.04	**347**	**1254**	1699	**87.2**	65.0		
	6.03	**290**	**1443**	1955	**83.9**	62.5		
	7.38	**237**	**1731**	2345	**82.2**	61.3		
	8.61	**203**	**1896**	2569	**77.2**	57.6		
	9.36	**187**	**1926**	2610	**72.1**	53.8		
	11.2	**156**	**2165**	2933	**67.7**	50.5		
	13.71	**128**	**2024**	2742	**51.7**	38.6		
	15.03	**116**	**2218**	3005	**51.7**	38.6		
	16.34	**107**	**2314**	3135	**49.6**	37.0		
	19.55	**90**	**2241**	3037	**40.2**	30.0		
	23.93	**73**	**2093**	2836	**30.7**	22.9		
	24.99	**70**	**1757**	2381	**24.6**	18.4		250 210 180
	27.16	**64**	**1909**	2587	**24.6**	18.4		
	30.24	**58**	**1818**	2463	**21.1**	15.7		
	32.5	**54**	**2285**	3096	**24.6**	18.4		
	36.18	**48**	**2175**	2947	**21.1**	15.7		
	39.79	**44**	**2155**	2920	**19.0**	14.2		
	44.29	**40**	**2170**	2941	**17.2**	12.8		
603	*46.6*	**38**	**2460**	3333	**18.9**	14.1	1.0	250 210 180
	55.8	**31**	**2394**	3244	**15.4**	11.5		
	60.1	**29**	**2465**	3340	**14.7**	11.0		
	71.9	**24**	**2399**	3251	**11.9**	8.9		
	88	**20**	**2255**	3055	**9.2**	6.8		
	96.3	**18**	**2476**	3355	**9.2**	6.9		
	115.2	**15**	**2409**	3264	**7.5**	5.6		
	136.5	**13**	**2464**	3339	**6.5**	4.8		
	148.3	**12**	**2484**	3366	**6.0**	4.5		
	177.5	**10**	**2443**	3310	**4.9**	3.7		
	190.4	**9**	**2479**	3359	**4.7**	3.5		180
	207	**8**	**2559**	3467	**4.4**	3.3		
	217.2	**8**	**2362**	3200	**3.9**	2.9		
	247.6	**7**	**2542**	3444	**3.7**	2.7		
	303.1	**6**	**2404**	3258	**2.8**	2.1		

lb E23

4.9 Dimensions

4.9 Dimensiones

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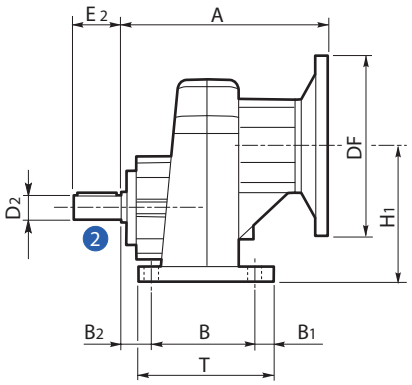
P

RCV ...



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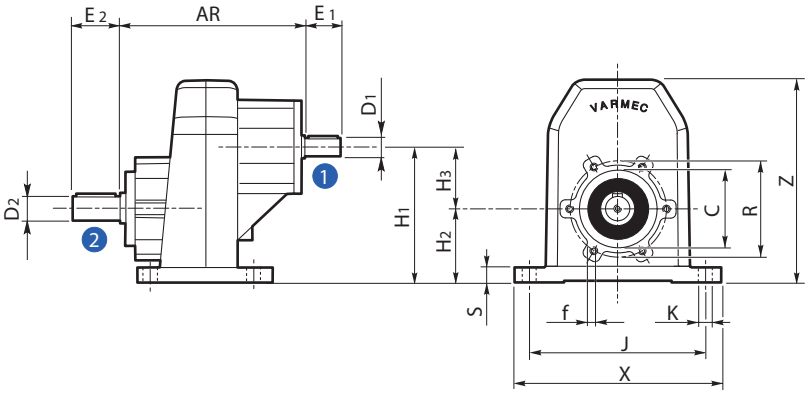
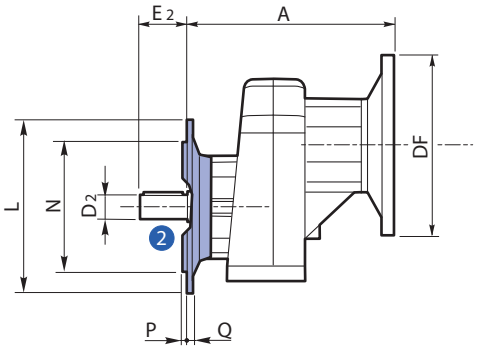


NF

RCV ...



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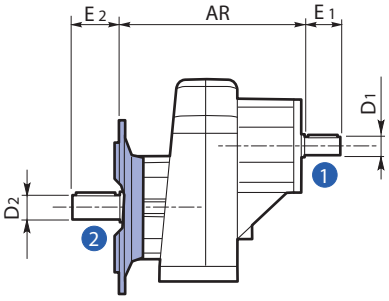
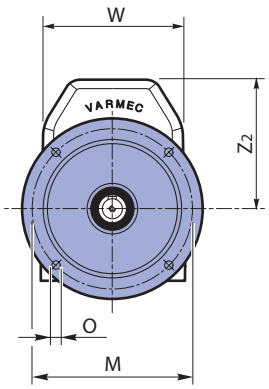




RCV - CV		AR	B	B1	B2	C h7	f	K	J	H1	H2	H3	R	S	T	W	X	Z	Z2
141	inch	4.421	2.559	0.335	0.709	1.969		0.354	4.331	3.642	1.969	1.674	2.559	0.591	3.228	3.543	5.118	5.472	3.504
	[mm]	[112.3]	[65]	[8.5]	[18]	[50]	M6	[9]	[110]	[92.51]	[50]	[42.51]	[65]	[15]	[82]	[90]	[130]	[139]	[89]

		L	M	N h8	O	P	Q
NF120	inch	4.724	3.937	3.150	0.354	0.118	0.354
	[mm]	[120]	[100]	[80]	[9]	[3]	[9]
NF140	inch	5.512	4.528	3.740	0.374	0.118	0.354
	[mm]	[140]	[115]	[95]	[9.5]	[3]	[9]
NF160	inch	6.299	5.118	4.331	0.374	0.138	0.354
	[mm]	[160]	[130]	[110]	[9.5]	[3.5]	[9]

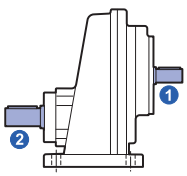
NEMA		A	DF
56	inch	5.295	6.500
	[mm]	[134.5]	[165.1]

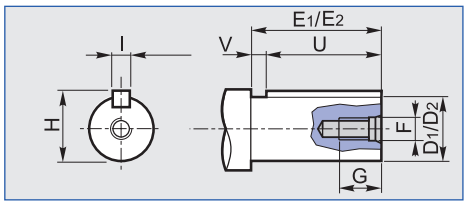
1 **Input shaft / *Eje de entrada***

	D_1	E_1	F	G	H	I	U	V
inch	0.625	1.575	1/4-20	0.630	0.704	0.187	1.000	0.575
[mm]	[15.875]	[40.005]		[16.002]	[17.882]	[4.750]	[25.400]	[14.605]

2 **Output shaft / *Eje de salida***

	D_2	E_2	F	G	H	I	U	V
inch	0.625	1.575	1/4-20	0.630	0.704	0.187	1.000	0.575
[mm]	[15.875]	[40.005]		[16.002]	[17.882]	[4.750]	[25.400]	[14.605]





4.9 Dimensions

4.9 Dimensiones

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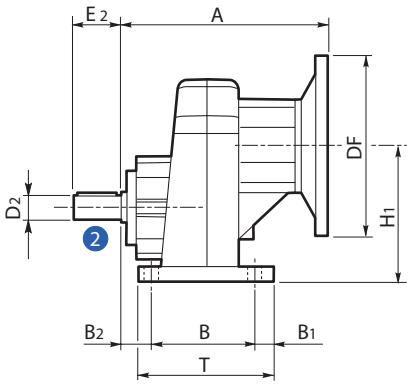
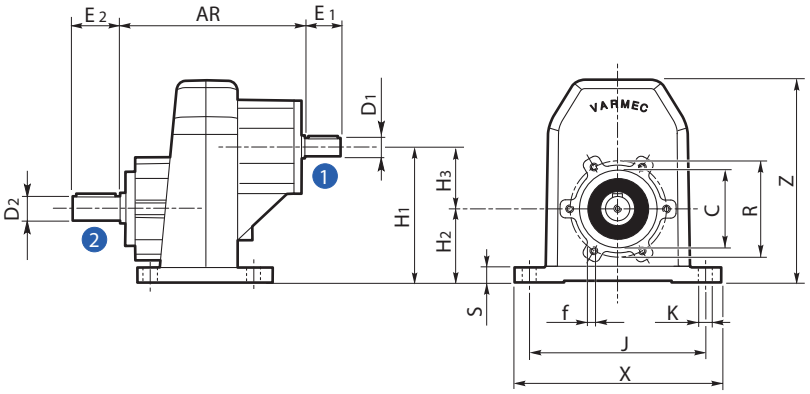
P

RCV ...

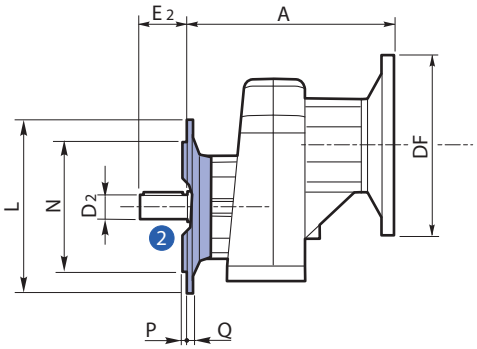


CV ...



NF

RCV ...



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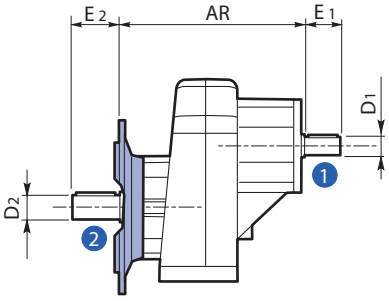
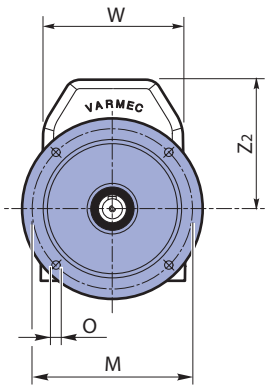




RCV - CV		AR	B	B1	B2	C h7	f	K	J	H1	H2	H3	R	S	T	W	X	Z	Z2
191	inch	5.354 - 3.030*	3.051	0.492	0.748	2.362		0.354	5.118	4.160	2.165	1.995	2.953	0.591	4.016	4.409	5.906	6.299	4.134
	[mm]	[136] - [119.3]*	[77.5]	[12.5]	[19]	[60]	[M6]	[9]	[130]	[105.67]	[55]	[50.67]	[75]	[15]	[102]	[112]	[150]	[160]	[105]

		L	M	N h8	O	P	Q
NF120	inch	4.724	3.937	3.150	0.354	0.118	0.472
	[mm]	[120]	[100]	[80]	[9]	[3]	[12]
NF140	inch	5.512	4.528	3.740	0.374	0.118	0.472
	[mm]	[140]	[115]	[95]	[9.5]	[3]	[12]
NF160	inch	6.299	5.118	4.331	0.374	0.118	0.472
	[mm]	[160]	[130]	[110]	[9.5]	[3]	[12]
NF200	inch	7.874	6.496	5.118	0.453	0.138	0.472
	[mm]	[200]	[165]	[130]	[11.5]	[3.5]	[12]

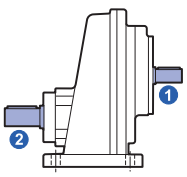
NEMA		A	DF
56	inch	5.906	6.500
	[mm]	[150]	[165.1]
140	inch	5.906	6.500
	[mm]	[150]	[165.1]

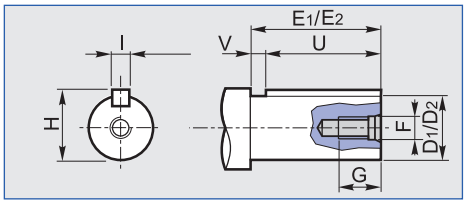
1 **Input shaft / *Eje de entrada***

	D_1	E_1	F	G	H	I	U	V
inch	0.75	1.575	5/16-18	0.709	0.832	0.187	1.000	0.575
[mm]	[19.050]	[40.005]		[18.009]	[21.133]	[4.750]	[25.400]	[14.605]

2 **Output shaft / *Eje de salida***

	D_2	E_2	F	G	H	I	U	V
inch	0.75	1.575	5/16-18	0.709	0.832	0.187	1.000	0.575
[mm]	[19.050]	[40.005]		[18.009]	[21.133]	[4.750]	[25.400]	[14.605]





4.9 Dimensions

4.9 Dimensiones

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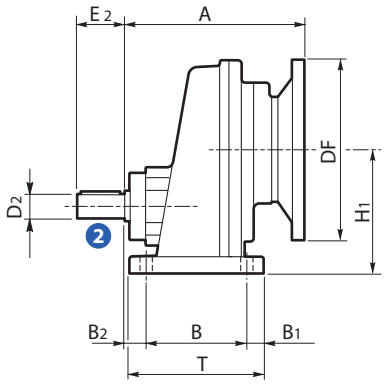
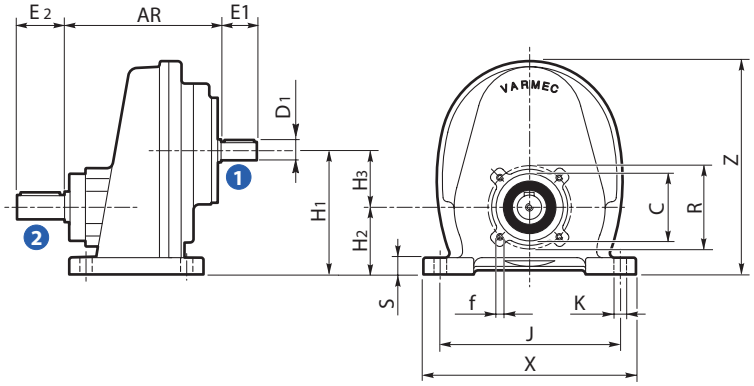
P

RCV ...

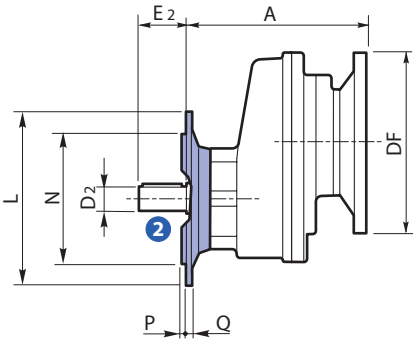


CV ...

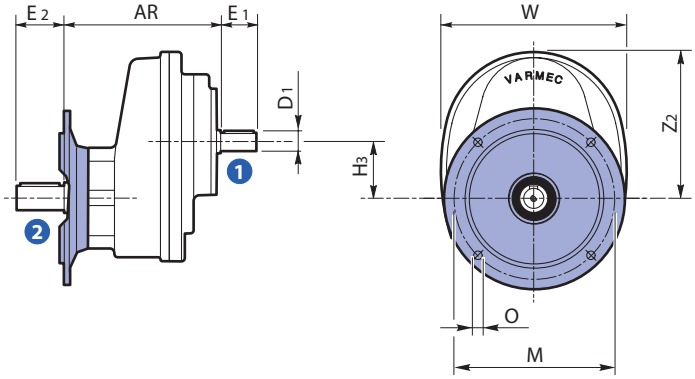


NF

RCV ...



CV ...



RCV - CV		AR	B	B1	B2	C h7	f	K	J	H1	H2	H3	R	S	T	W	X	Z	Z2
241	inch	5.669	3.543	0.591	0.709	2.362		0.433	6.299	4.354	2.362	1.992	2.953	0.591	4.921	6.535	7.480	7.480	5.118
	[mm]	[144]	[90]	[15]	[18]	[60]	M6	[11]	[160]	[110.6]	[60]	[50.6]	[75]	[15]	[125]	[166]	[190]	[190]	[130]

		L	M	N h8	O	P	Q
NF120	inch	4.724	3.937	3.150	0.276	0.098	0.394
	[mm]	[120]	[100]	[80]	[7]	[2.5]	[10]
NF140	inch	5.512	4.528	3.740	0.354	0.118	0.394
	[mm]	[140]	[115]	[95]	[9]	[3]	[10]
NF160	inch	6.299	5.118	4.331	0.433	0.118	0.394
	[mm]	[160]	[130]	[110]	[11]	[3]	[10]
NF200	inch	7.874	6.496	5.118	0.433	0.118	0.394
	[mm]	[200]	[165]	[130]	[11]	[3]	[10]

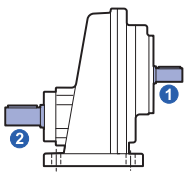
NEMA		A	DF
56	inch	6.220	6.500
	[mm]	[158]	[165.1]
140	inch	6.220	6.500
	[mm]	[158]	[165.1]

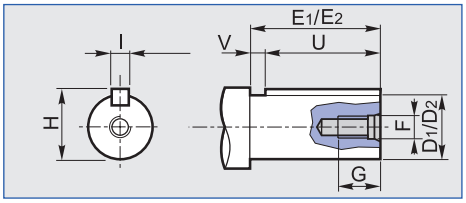
1 **Input shaft / *Eje de entrada***

	D_1	E_1	F	G	H	I	U	V
inch	0.75	1.575	5/16-18	0.709	0.832	0.187	1.000	0.575
[mm]	[19.050]	[40.005]		[18.009]	[21.133]	[4.750]	[25.400]	[14.605]

2 **Output shaft / *Eje de salida***

	D_2	E_2	F	G	H	I	U	V
inch	0.75	1.575	5/16-18	0.709	0.832	0.187	1.000	0.575
[mm]	[19.050]	[40.005]		[18.009]	[21.133]	[4.750]	[25.400]	[14.605]
inch	1.000	1.969	5/16-18	0.709	1.109	0.25	1.500	0.469
[mm]	[25.400]	[50.012]		[18.009]	[28.168]	[6.350]	[38.100]	[11.913]





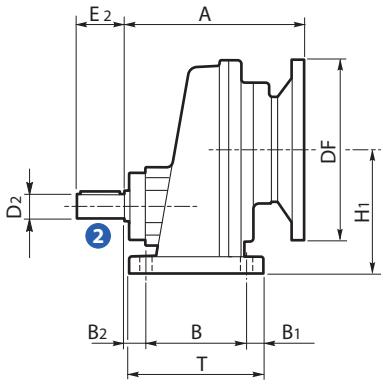
4.9 Dimensions

4.9 Dimensiones

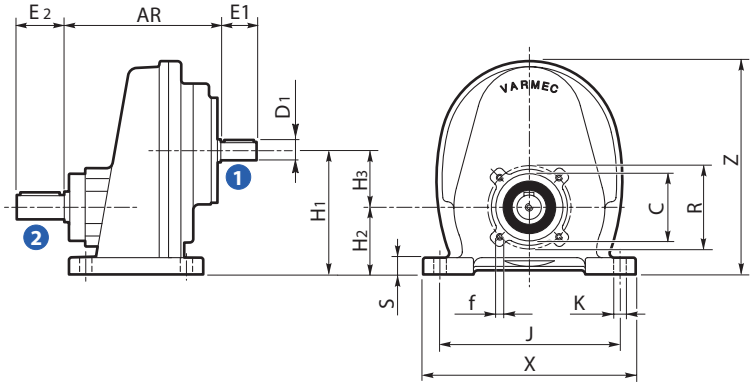
281

P

RCV ...

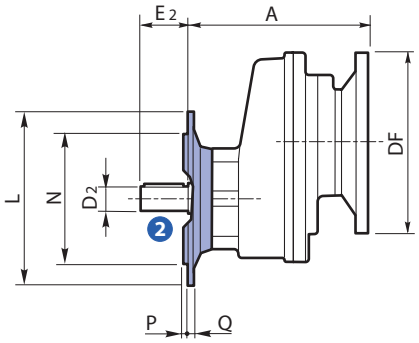


CV ...

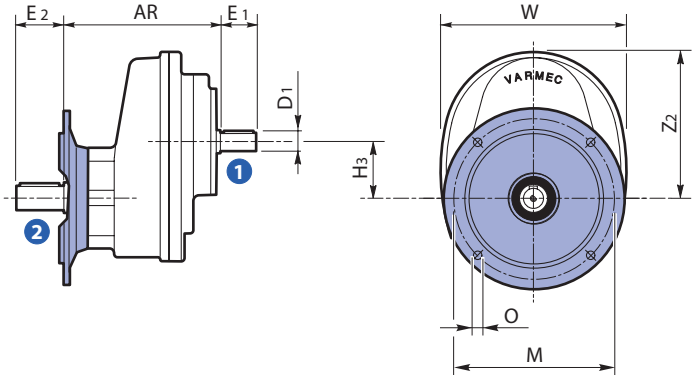


NF

RCV ...



CV ...



RCV - CV		AR	B	B1	B2	C h7	f	K	J	H1	H2	H3	R	S	T	W	X	Z	Z2
281	inch	7.480	4.921	0.787	0.787	3.150		0.551	7.087	5.134	2.756	2.378	3.937	0.630	6.457	7.677	8.465	8.780	6.024
	[mm]	[190]	[125]	[20]	[20]	[80]	M10	[14]	[180]	[130.4]	[70]	[60.4]	[100]	[16]	[164]	[195]	[215]	[223]	[153]

		L	M	N h8	O	P	Q
NF160	inch	6.299	5.118	4.331	0.433	0.138	0.433
	[mm]	[160]	[130]	[110]	[11]	[3.5]	[11]
NF200	inch	7.874	6.496	5.118	0.512	0.138	0.433
	[mm]	[200]	[165]	[130]	[13]	[3.5]	[11]
NF250	inch	9.843	8.465	7.087	0.551	0.157	0.512
	[mm]	[250]	[215]	[180]	[14]	[4]	[13]

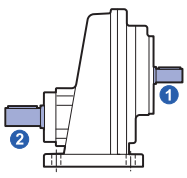
NEMA		A	DF
140	inch	8.071	6.500
	[mm]	[205]	[165.1]
180	inch	8.307	9.000
	[mm]	[211]	[228.6]

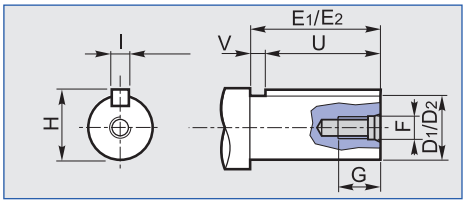
1 **Input shaft / *Eje de entrada***

	D_1	E_1	F	G	H	I	U	V
inch	1.000	1.969	5/16-16	0.709	1.109	0.250	1.500	0.469
[mm]	[25.400]	[50.012]		[18.009]	[28.168]	[6.350]	[38.100]	[11.913]

2 **Output shaft / *Eje de salida***

	D_2	E_2	F	G	H	I	U	V
inch	1.125	2.362	3/8-16	0.906	1.236	0.25	1.750	0.612
[mm]	[28.575]	[59.994]		[23.012]	[31.394]	[6.350]	[44.450]	[15.545]





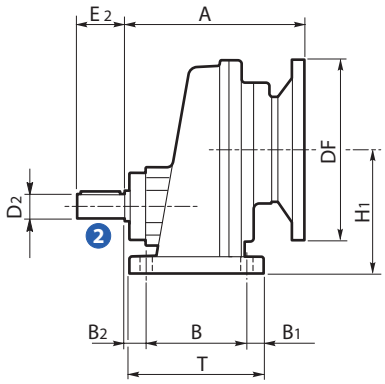
4.9 Dimensions

4.9 Dimensiones

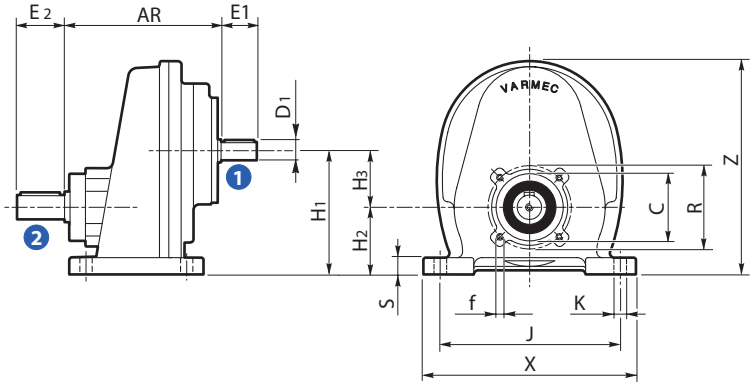
381

P

RCV ...

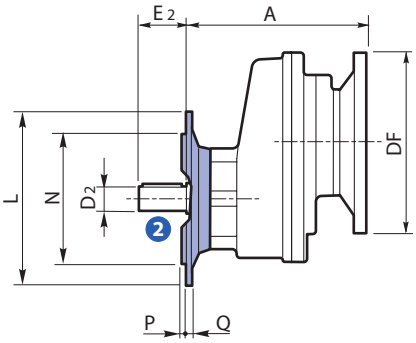


CV ...

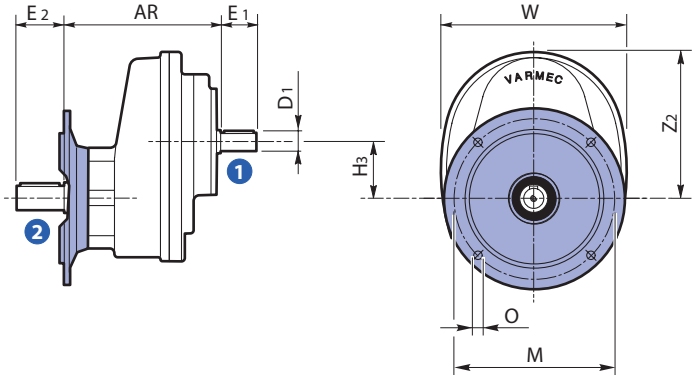


NF

RCV ...



CV ...



RCV - CV		AR	B	B1	B2	C h7	f	K	J	H1	H2	H3	R	S	T	W	X	Z	Z2
381	inch	8.504	5.709	0.984	0.984	4.331		0.709	8.858	6.102	3.228	2.874	5.118	0.709	7.480	9.055	10.630	10.433	7.205
	[mm]	[216]	[145]	[25]	[25]	[110]	M10	[18]	[225]	[155]	[82]	[73]	[130]	[18]	[190]	[230]	[270]	[265]	[183]

		L	M	N h8	O	P	Q
NF200	inch	11.811	6.496	5.118	0.551	0.157	0.551
	[mm]	[300]	[165]	[130]	[14]	[4]	[14]
NF250	inch	9.843	8.465	7.087	0.551	0.157	0.551
	[mm]	[250]	[215]	[180]	[14]	[4]	[14]
NF300	inch	11.811	10.433	9.055	0.551	0.157	0.551
	[mm]	[300]	[265]	[230]	[14]	[4]	[14]

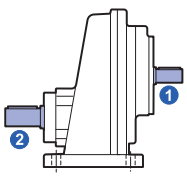
NEMA		A	DF
140	inch	9.331	6.500
	[mm]	[237]	[165.1]
180	inch	9.567	9.000
	[mm]	[243]	[228.6]
210	inch	9.567	9.000
	[mm]	[243]	[228.6]

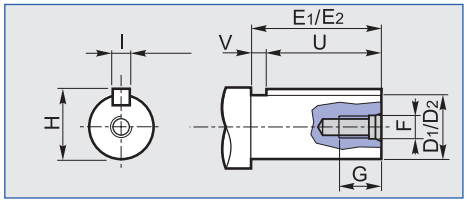
1 **Input shaft / *Eje de entrada***

	D_1	E_1	F	G	H	I	U	V
inch	1.125	2.362	5/16-18	0.709	1.236	0.250	1.750	0.612
[mm]	[28.575]	[59.994]		[18.009]	[31.394]	[6.350]	[44.450]	[15.545]

2 **Output shaft / *Eje de salida***

	D_2	E_2	F	G	H	I	U	V
inch	1.625	3.150	1/2-13	1.299	1.792	0.375	2.500	0.650
[mm]	[41.275]	[80.010]		[32.994]	[45.516]	[9.525]	[63.500]	[16.510]





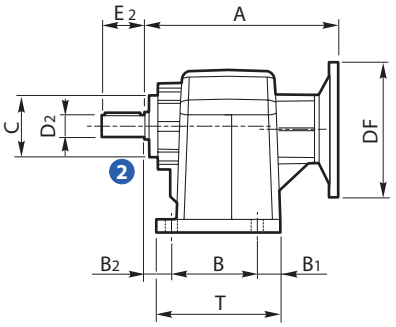
4.9 Dimensions

4.9 Dimensiones

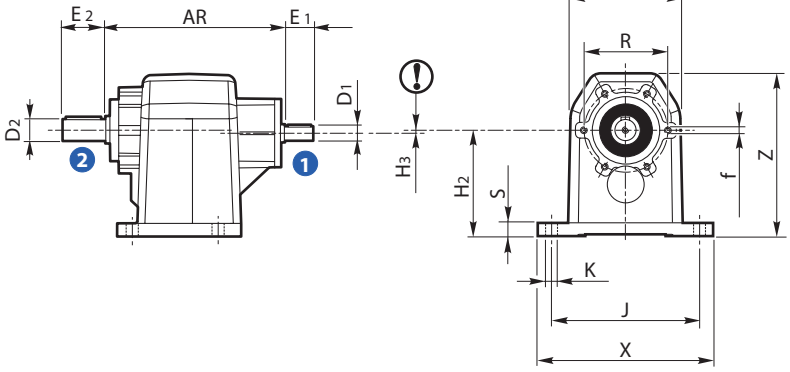
162

P

RCV ...

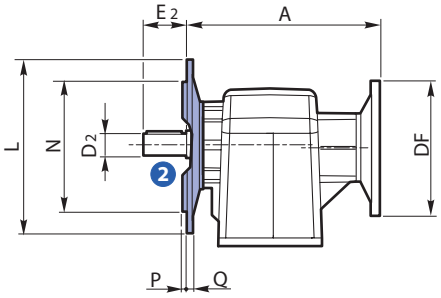


CV ...

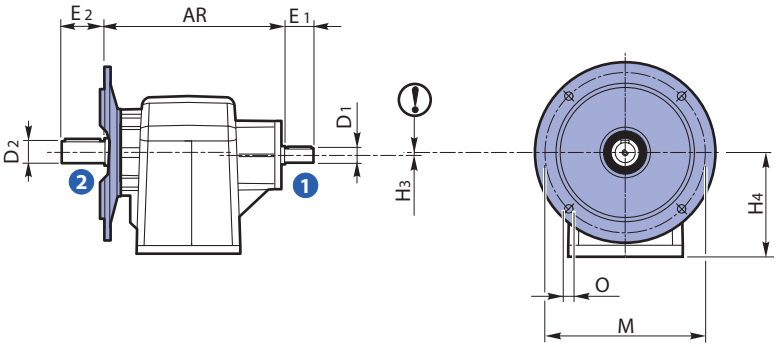


NF

RCV ...



CV ...



RCV - CV		AR	B	B1	B2	C h7	f	K	J	H2	H3	H4	R	S	T	W	X	Z
162	inch	5.425	1.969	1.260	0.709	1.969		0.354	4.331	3.346	0.092	3.071	2.559	0.413	3.626	3.228	5.118	5.118
	[mm]	[137.8]	[50]	[32]	[18]	[50]	M6	[9]	[110]	[85]	[2.34]	[78]	[65]	[10.5]	[92.1]	[82]	[130]	[130]

		L	M	N h8	O	P	Q
NF120	inch	4.724	3.937	3.150	0.354	0.118	0.354
	[mm]	[120]	[100]	[80]	[9]	[3]	[9]
NF140	inch	5.512	4.528	3.740	0.374	0.118	0.354
	[mm]	[140]	[115]	[95]	[9.5]	[3]	[9]
NF160	inch	6.299	5.118	4.331	0.374	0.138	0.354
	[mm]	[160]	[130]	[110]	[9.5]	[3.5]	[9]

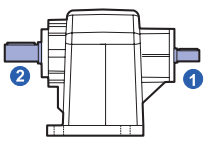
NEMA		A	DF
56	inch	6.300	6.500
	[mm]	[160]	[165.1]

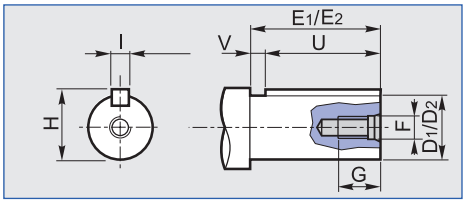
1 **Input shaft / *Eje de entrada***

	D_1	E_1	F	G	H	I	U	V
inch	0.625	1.575	1/4-20	0.630	0.704	0.187	1.000	0.575
[mm]	[15.875]	[40.005]		[16.002]	[17.882]	[4.750]	[25.400]	[14.605]

2 **Output shaft / *Eje de salida***

	D_2	E_2	F	G	H	I	U	V
inch	0.625	1.575	1/4-20	0.630	0.704	0.187	1.000	0.575
[mm]	[15.875]	[40.005]		[16.002]	[17.882]	[4.750]	[25.400]	[14.605]





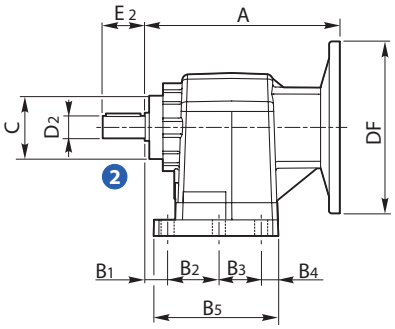
4.9 Dimensions

4.9 Dimensiones

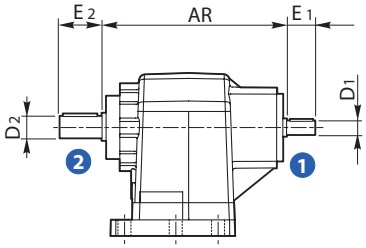
202A

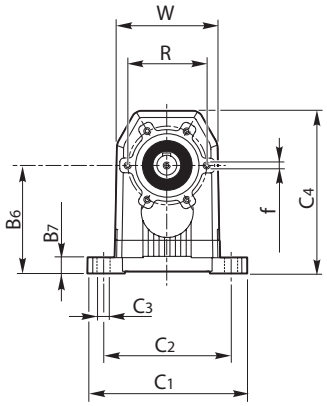
P-B

RCV ...



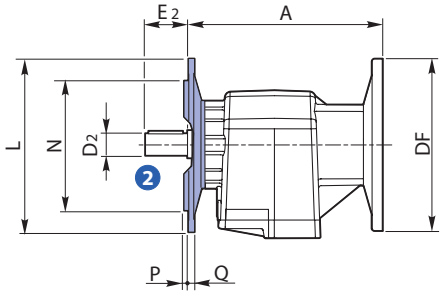
CV ...



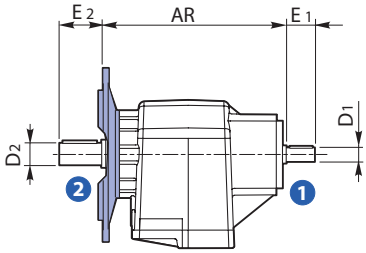


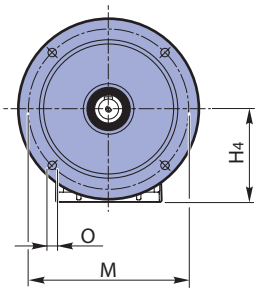
NF

RCV ...



CV ...





RCV - CV			AR	B1	B2	B3	B4	B5	B6	B7	C h7	C1	C2	C3	C4	f	H4	R	W
202A	P	inch	6.811 - 6.173*	0.709	2.362	1.181	0.571	4.587	3.937	0.591	2.362	5.906	5.118	0.433	5.925	M6	3.425	2.953	3.701
		[mm]		[18]	[60]	[30]	[14.5]	[116.5]	[100]	[15]		[150]	[130]	[11]	[150.5]				
	B	inch	[173] - [156.8]*	0.709	1.969	1.457	0.630	4.469	3.346	0.591	[60]	5.118	4.331	0.354	5.335		[87]	[75]	[94]
		[mm]		[18]	[50]	[37]	[16]	[113.5]	[85]	[15]		[130]	[110]	[9]	[135.5]				

		L	M	N h8	O	P	Q
NF120	inch	4.724	3.937	3.150	0.354	0.118	0.472
	[mm]	[120]	[100]	[80]	[9]	[3]	[12]
NF140	inch	5.512	4.528	3.740	0.374	0.118	0.472
	[mm]	[140]	[115]	[95]	[9.5]	[3]	[12]
NF160	inch	6.299	5.118	4.331	0.374	0.118	0.472
	[mm]	[160]	[130]	[110]	[9.5]	[3]	[12]
NF200	inch	7.874	6.496	5.118	0.453	0.138	0.472
	[mm]	[200]	[165]	[130]	[11.5]	[3.5]	[12]

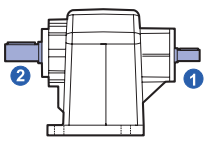
NEMA		A	DF
56	inch	7.402	6.500
	[mm]	[188]	[165.1]
140	inch	7.402	6.500
	[mm]	[188]	[165.1]

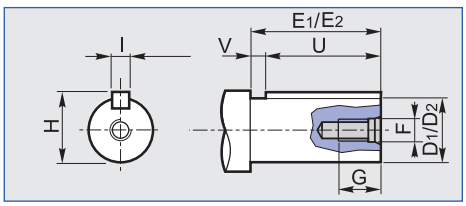
1 **Input shaft / *Eje de entrada***

	D_1	E_1	F	G	H	I	U	V
inch	0.750	1.575	5/16-18	0.709	0.832	0.187	1.000	0.575
[mm]	[19.050]	[40.005]		[18.009]	[21.133]	[4.750]	[25.400]	[14.605]

2 **Output shaft / *Eje de salida***

	D_2	E_2	F	G	H	I	U	V
inch	0.750	1.575	5/16-18	0.708	0.832	0.187	1.000	0.575
[mm]	[19.050]	[40.005]		[17.983]	[21.133]	[4.750]	[25.400]	[14.605]





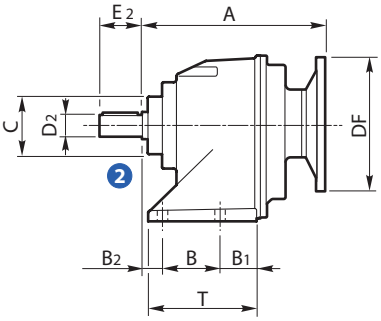
4.9 Dimensions

4.9 Dimensiones

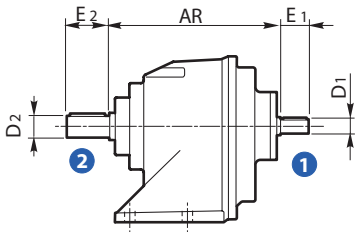
202-203

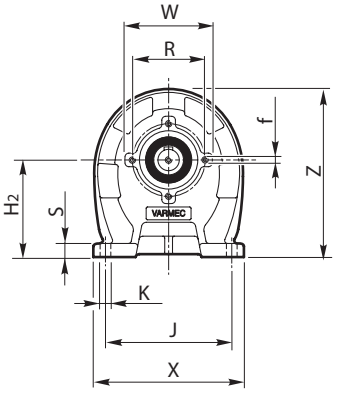
P

RCV ...



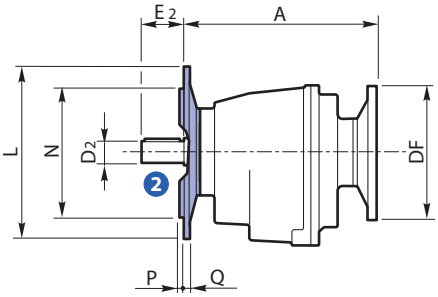
CV ...



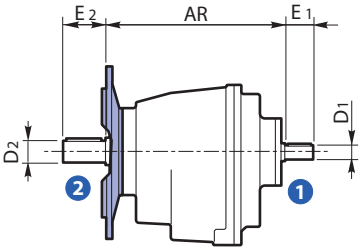


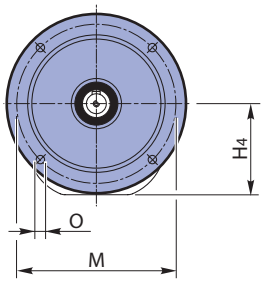
NF

RCV ...



CV ...





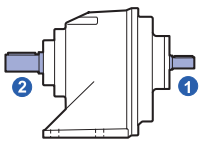
RCV - CV		AR	B	B1	B2	C h7	f	K	J	H2	H4	R	S	T	W	X	Z
202	inch	6.811 [173]	2.362	1.496	0.709	2.362		0.433	5.118	3.937	3.819	2.953	0.551	4.291	3.543	6.102	6.811
203	[mm]	6.693 [170]	[60]	[38]	[18]	[60]	M6	[11]	[130]	[100]	[97]	[75]	[14]	[109]	[90]	[155]	[173]

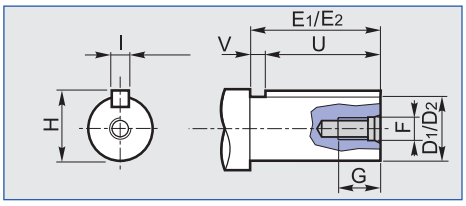
		L	M	N h8	O	P	Q
NF120	inch	4.724	3.937	3.150	0.276	0.098	0.394
	[mm]	[120]	[100]	[80]	[7]	[2.5]	[10]
NF140	inch	5.512	4.528	3.740	0.354	0.118	0.394
	[mm]	[140]	[115]	[95]	[9]	[3]	[10]
NF160	inch	6.299	5.118	4.331	0.433	0.118	0.394
	[mm]	[160]	[130]	[110]	[11]	[3]	[10]
NF200	inch	7.874	6.496	5.118	0.433	0.118	0.394
	[mm]	[200]	[165]	[130]	[11]	[3]	[10]

NEMA			A	DF
202	56	inch	7.402	6.500
		[mm]	[188]	[165.1]
	140	inch	7.402	6.500
		[mm]	[188]	[165.1]
203	56	inch	7.567	6.500
		[mm]	[192.2]	[165.1]

1 **Input shaft / *Eje de entrada***

		D_1	E_1	F	G	H	I	U	V
202	inch	0.750	1.575	5/16-18	0.709	0.832	0.187	1.000	0.575
	[mm]	[19.05]	[40.005]		[18]	[21.133]	[4.750]	[25.400]	[14.605]
203	inch	0.625	1.575	1/4-20	0.630	0.704	0.187	1.000	0.575
	[mm]	[15.875]	[40.005]		[16]	[17.882]	[4.750]	[25.400]	[14.605]





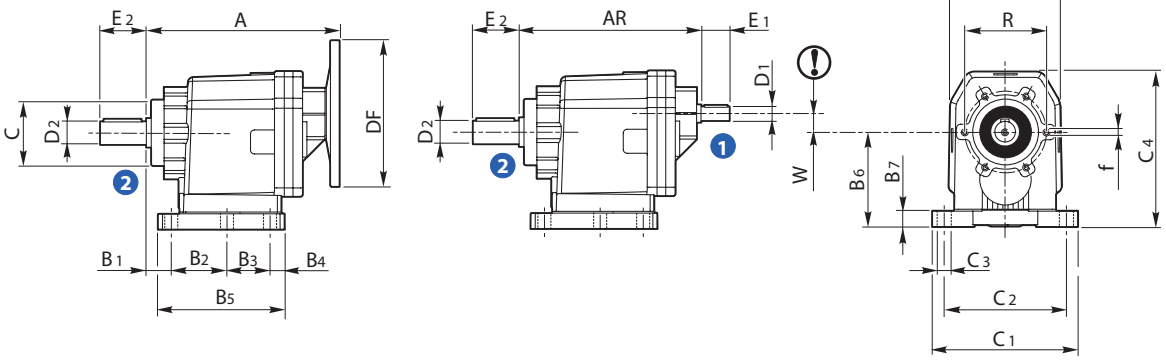
2 **Output shaft / *Eje de salida***

		D_2	E_2	F	G	H	I	U	V
202 203	inch	0.750	1.575	5/16-18	0.709	0.832	0.187	1.000	0.575
	[mm]	[19.05]	[40.005]		[18]	[21.133]	[4.750]	[25.400]	[14.605]

252A - 253A

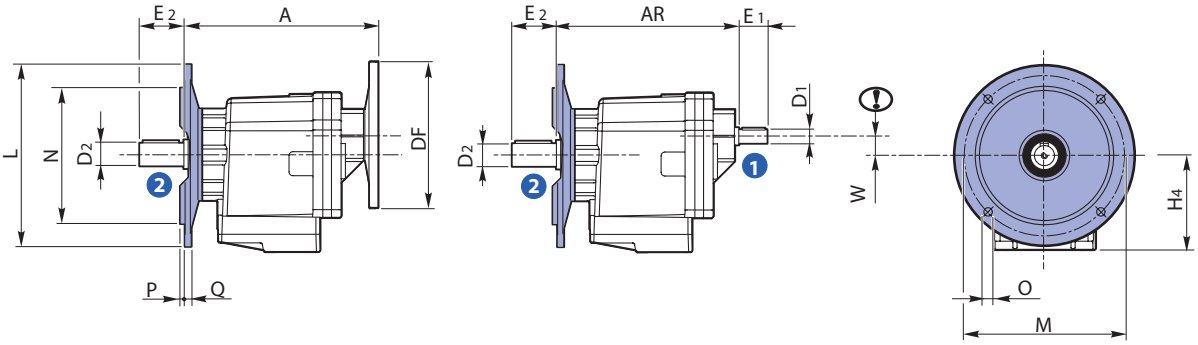
P-B

RCV ... CV ...



NF

RCV ... CV ...



RCV - CV			AR	B1	B2	B3	B4	B5	B6	B7	C h7	C1	C2	C3	C4	f	H4	R	W	W1
252A	P	inch	7.402	0.709	2.756	1.575	0.551	5.354	4.331	0.669	2.756	7.283	6.299	0.433	6.890	M8	4.094	2.953	0.000	4.803
		[mm]	[188]	[18]	[70]	[40]	[14]	[136]	[110]	[17]	[70]	[185]	[160]	[11]	[175]		[104]	[75]	[0]	[122]
253A	B	inch	7.343	0.709	2.362	1.870	0.591	5.315	3.937	0.669		6.102	5.118	0.433	6.496				0.787	
		[mm]	[186.5]	[18]	[60]	[47.5]	[15]	[135]	[100]	[17]		[155]	[130]	[11]	[165]				[20]	

		L	M	N h8	O	P	Q
NF140	inch	5.512	4.528	3.740	0.374	0.118	0.472
	[mm]	[140]	[115]	[95]	[9.5]	[3]	[12]
NF160	inch	6.299	5.118	4.331	0.374	0.118	0.472
	[mm]	[160]	[130]	[110]	[9.5]	[3]	[12]
NF200	inch	7.874	6.496	5.118	0.453	0.138	0.472
	[mm]	[200]	[165]	[130]	[11.5]	[3.5]	[12]

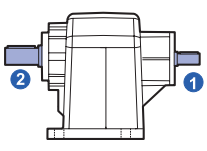
NEMA			A	DF
252A	56	inch	7.972	6.500
		[mm]	[202.5]	[165.1]
	140	inch	7.972	6.500
		[mm]	[202.5]	[165.1]
253A	56	inch	8.228	6.500
		[mm]	[209]	[165.1]

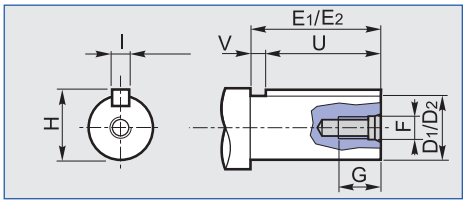
1 Input shaft / *Eje de entrada*

		D_1	E_1	F	G	H	I	U	V
252A	inch	0.750	1.575	5/16-18	0.709	0.832	0.187	1.000	0.575
	[mm]	[19.05]	[40.005]		[18]	[21.133]	[4.750]	[25.400]	[14.605]
253A	inch	0.625	1.575	1/4-20	0.630	0.704	0.187	1.000	0.575
	[mm]	[15.875]	[40.005]		[16]	[17.882]	[4.750]	[25.400]	[14.605]

2 Output shaft / *Eje de salida*

		D_2	E_2	F	G	H	I	U	V
252A 253A	inch	1.000	1.969	5/16-18	0.709	1.109	0.250	1.500	0.469
	[mm]	[25.400]	[50.012]		[18]	[28.168]	[6.350]	[38.100]	[11.913]





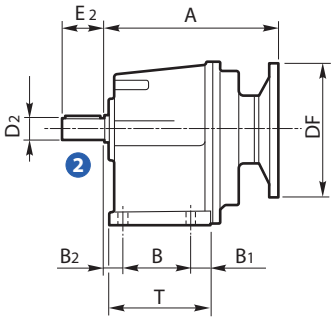
4.9 Dimensions

4.9 Dimensiones

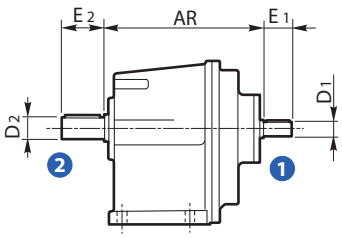
252 - 253

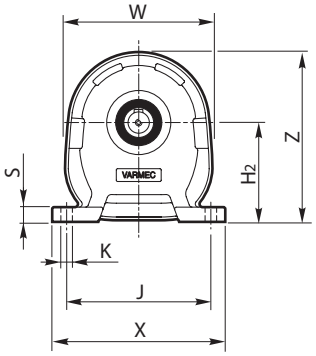
P

RCV ...



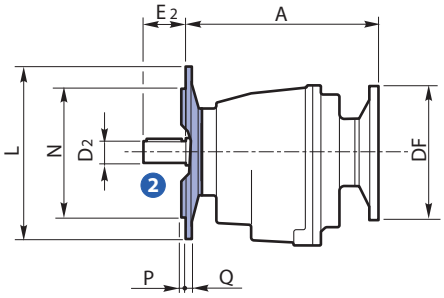
CV ...



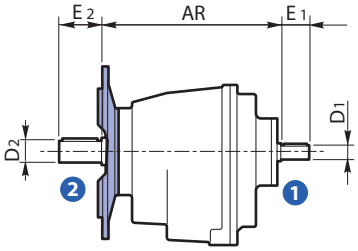


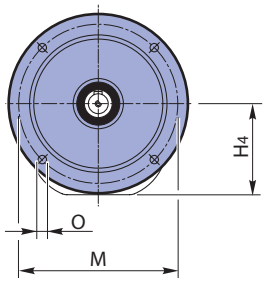
NF

RCV ...



CV ...





RCV - CV		AR P	AR NF	B	B1	B2	K	J	H2	H4	S	T	W	X	Z
252	inch	6.378 [162]	7.362 [187]	2.756	0.787	0.709	0.433	6.299	4.331	4.212	0.630	4.134	6.535	7.480	7.480
253	[mm]	6.283 [159.6]	7.268 [184.6]	[70]	[20]	[18]	[11]	[160]	[110]	[107]	[16]	[105]	[166]	[190]	[190]

		L	M	N h8	O	P	Q
NF140	inch	5.512	4.528	3.740	0.354	0.118	0.394
	[mm]	[140]	[115]	[95]	[9]	[3]	[10]
NF160	inch	6.299	5.118	4.331	0.433	0.118	0.394
	[mm]	[160]	[130]	[110]	[11]	[3]	[10]
NF200	inch	7.874	6.496	5.118	0.453	0.138	0.394
	[mm]	[200]	[165]	[130]	[11.5]	[3.5]	[10]

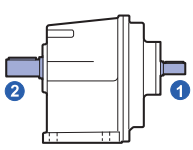
NEMA			A P	A NF	DF
252	56	inch	6.969	7.953	6.500
		[mm]	[177]	[202]	[165.1]
	140	inch	6.969	7.953	6.500
		[mm]	[177]	[202]	[165.1]
253	56	inch	7.154	8.138	6.500
		[mm]	[181.7]	[206.7]	[165.1]

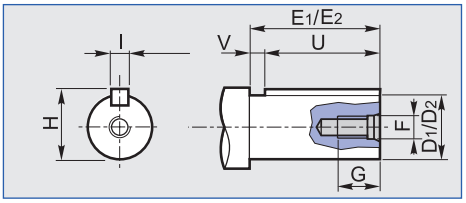
1 Input shaft / *Eje de entrada*

		D_1	E_1	F	G	H	I	U	V
252	inch	0.750	1.575	5/16-18	0.709	0.832	0.187	1.000	0.575
	[mm]	[19.05]	[40.005]		[18]	[21.133]	[4.750]	[25.400]	[14.605]
253	inch	0.625	1.575	1/4-20	0.630	0.704	0.187	1.000	0.575
	[mm]	[15.875]	[40.005]		[16]	[17.882]	[4.750]	[25.400]	[14.605]

2 Output shaft / *Eje de salida*

		D_2	E_2	F	G	H	I	U	V
252 253	inch	1.000	1.969	5/16-18	0.709	1.109	0.250	1.500	0.469
	[mm]	[25.400]	[50.012]		[18]	[28.168]	[6.350]	[38.100]	[11.913]





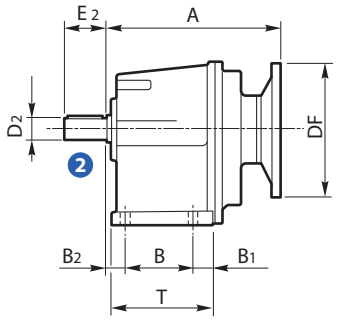
4.9 Dimensions

4.9 Dimensiones

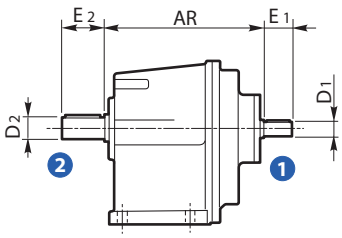
302 - 303

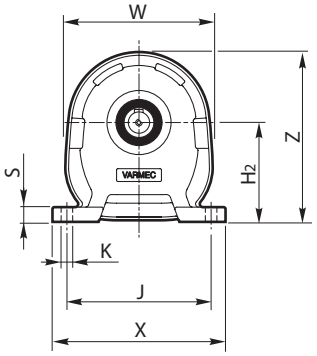
P

RCV ...



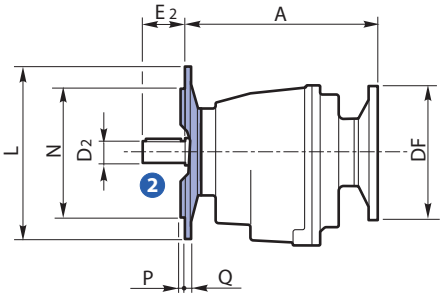
CV ...



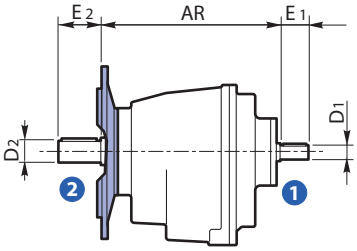


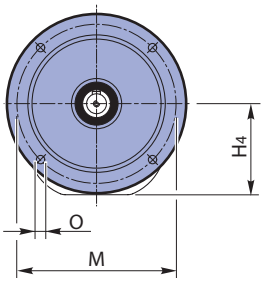
NF

RCV ...



CV ...





RCV - CV		AR		B	B1	B2	K	J	H2	H4	S	T	W	X	Z
		P	NF												
302	inch	8.622 [219]	9.606 [244]	4.134	0.827	0.787	0.551	7.087	5.118	5.079	0.709	5.630	7.677	8.465	8.661
303	[mm]	8.425 [214]	9.409 [239]	[105]	[21]	[20]	[14]	[180]	[130]	[129]	[18]	[143]	[195]	[215]	[220]

		L	M	N h8	O	P	Q
NF160	inch	6.299	5.118	4.330	0.433	0.137	0.433
	[mm]	[160]	[130]	[110]	[11]	[3.5]	[11]
NF200	inch	7.874	6.496	5.118	0.512	0.137	0.433
	[mm]	[200]	[165]	[130]	[13]	[3.5]	[11]
NF250	inch	9.842	8.464	7.086	0.551	0.157	0.433
	[mm]	[250]	[215]	[180]	[14]	[4]	[11]

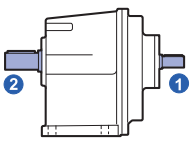
NEMA			A		DF
			P	NF	
302	140	inch	9.213	10.197	6.500
		[mm]	[234]	[259]	[165.1]
	180	inch	9.449	10.433	9.000
		[mm]	[240]	[265]	[228.6]
303	56	inch	9.016	10.000	6.500
		[mm]	[229]	[254]	[165.1]
	140	inch	9.016	10.000	6.500
		[mm]	[229]	[254]	[165.1]

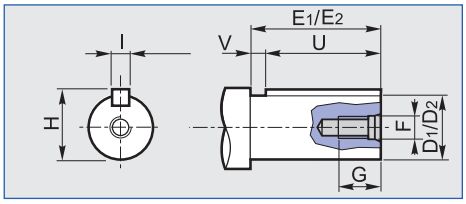
1 **Input shaft / *Eje de entrada***

		D_1	E_1	F	G	H	I	U	V
302	inch	1.000	1.969	5/16-18	0.709	1.109	0.250	1.500	0.469
	[mm]	[25.400]	[50.012]		[18.009]	[28.168]	[6.350]	[38.100]	[11.913]
303	inch	0.750	1.575	5/16-18	0.709	0.832	0.187	1.000	0.575
	[mm]	[19.050]	[40.005]		[18.009]	[21.133]	[4.750]	[25.400]	[14.605]

2 **Output shaft / *Eje de salida***

		D_2	E_2	F	G	H	I	U	V
302 303	inch	1.187	2.362	3/8-16	0.906	1.299	0.250	1.750	0.612
	[mm]	[30.149]	[59.994]		[23.012]	[32.994]	[6.350]	[44.450]	[15.545]





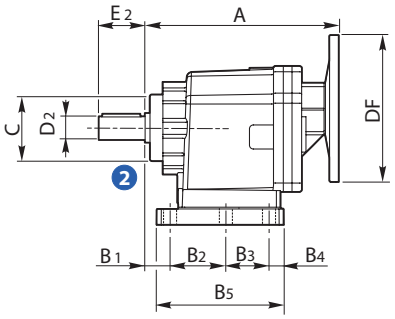
4.9 Dimensions

4.9 Dimensiones

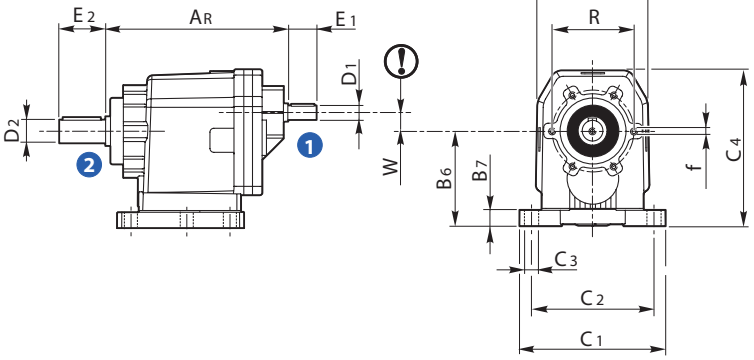
302A - 303A

P-B

RCV ...

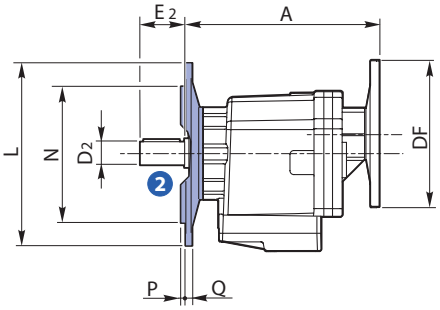


CV ...

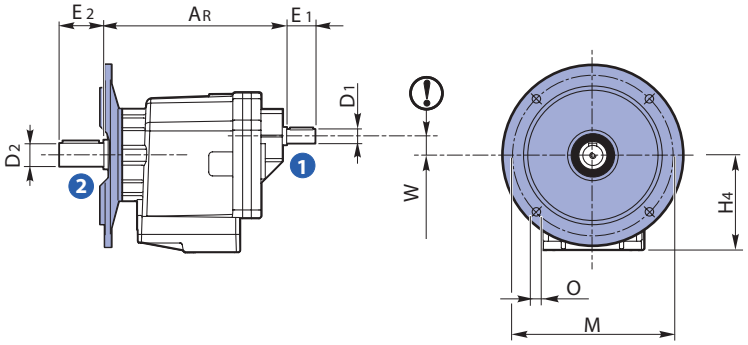


NF

RCV ...



CV ...



RCV - CV			B1	B2	B3	B4	B5	B6	B7	C h7	C1	C2	C3	C4	H4	f	R	W	W1
302A	P	inch	0.787	4.134	1.752	0.669	7.244	5.118	0.787	3.346	8.268	7.087	0.551	7.953	4.469	M8	3.937	0.236	5.866
		[mm]	[20]	[105]	[44.5]	[17]	[184]	[130]	[20]	[85]	[210]	[180]	[14]	[202]	[113.5]		[100]	[6]	[149]
303A	B	inch	0.709	2.756	2.362	1.535	7.205	4.331	0.787		7.323	6.299	0.433	7.283				0.866	
		[mm]	[18]	[70]	[60]	[39]	[183]	[110]	[20]		[186]	[160]	[11]	[185]				[22]	

		L	M	N h8	O	P	Q
NF160	inch	6.299	5.118	4.331	0.374	0.118	0.472
	[mm]	[160]	[130]	[110]	[9.5]	[3]	[12]
NF200	inch	7.874	6.496	5.118	0.453	0.138	0.472
	[mm]	[200]	[165]	[130]	[11.5]	[3.5]	[12]
NF250	inch	9.843	8.465	7.087	0.551	0.157	0.551
	[mm]	[250]	[215]	[180]	[14]	[4]	[14]

CV		AR
302A	inch	9.744 -8.976*
	[mm]	[247.5] - [228]*
303A	inch	9.547
	[mm]	[242.5]

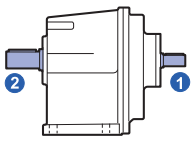
NEMA			A	DF
302A	56	inch	9.528	6.500
		[mm]	[242]	[165.1]
	140	inch	9.528	6.500
		[mm]	[242]	[165.1]
303A	56	inch	10.000	6.500
		[mm]	[254]	[165.1]
	140	inch	10.000	6.500
		[mm]	[254]	[165.1]

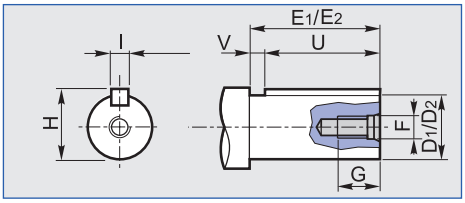
1 **Input shaft / *Eje de entrada***

		D_1	E_1	F	G	H	I	U	V
302A	inch	1.000	1.969	5/16-18	0.709	1.109	0.250	1.500	0.469
	[mm]	[25.400]	[50.012]		[18.009]	[28.168]	[6.350]	[38.100]	[11.913]
303A	inch	0.750	1.575	5/16-18	0.709	0.832	0.187	1.000	0.575
	[mm]	[19.050]	[40.005]		[18.009]	[21.133]	[4.750]	[25.400]	[14.605]

2 **Output shaft / *Eje de salida***

		D_2	E_2	F	G	H	I	U	V
302A 303A	inch	1.187	2.362	3/8-16	0.906	1.299	0.250	1.750	0.612
	[mm]	[30.149]	[59.994]		[23.012]	[32.994]	[6.350]	[44.450]	[15.545]





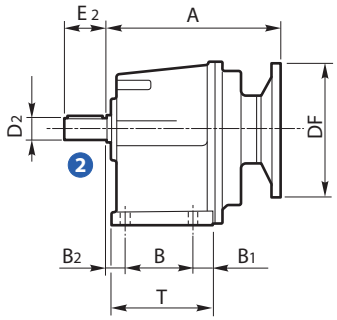
4.9 Dimensions

4.9 *Dimensiones*

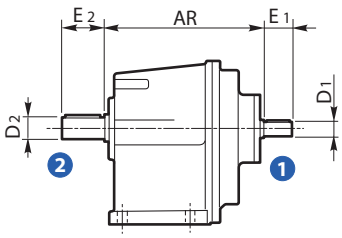
352 - 353

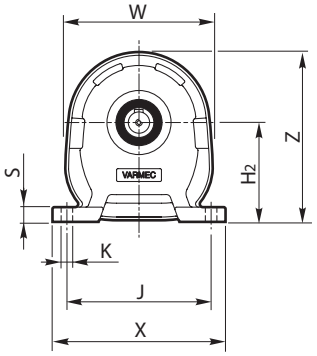
P

RCV ...



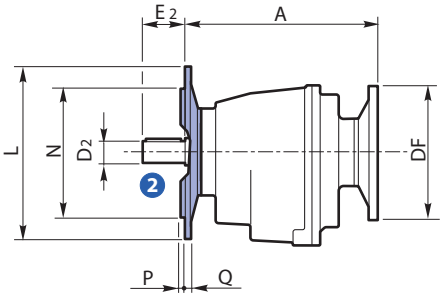
CV ...



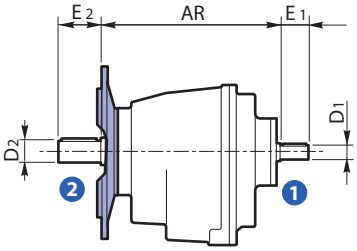


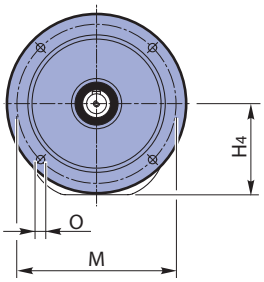
NF

RCV ...



CV ...





RCV		AR P	AR NF	B	B1	B2	K	J	H2	H4	S	T	W	X	Z
352	inch	8.622 [219]	9.606 [244]	4.134	0.827	0.787	0.551	7.087	5.118	5.078	0.709	5.630	7.677	8.464	8.661
353	[mm]	8.425 [214]	9.409 [239]	[105]	[21]	[20]	[14]	[180]	[130]	[129]	[18]	[143]	[195]	[215]	[220]

		L	M	N h8	O	P	Q
NF160	inch	6.299	5.118	4.330	0.433	0.137	0.433
	[mm]	[160]	[130]	[110]	[11]	[3.5]	[11]
NF200	inch	7.874	6.496	5.118	0.511	0.137	0.433
	[mm]	[200]	[165]	[130]	[13]	[3.5]	[11]
NF250	inch	9.842	8.464	7.086	0.551	0.157	0.433
	[mm]	[250]	[215]	[180]	[14]	[4]	[11]

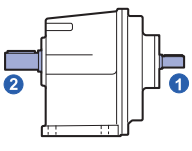
NEMA			A P	A NF	DF
352	140	inch	9.213	10.197	6.500
		[mm]	[234]	[259]	[165.1]
	180	inch	9.449	10.433	9.000
		[mm]	[240]	[265]	[228.6]
353	56	inch	9.016	10.000	6.500
		[mm]	[229]	[254]	[165.1]
	140	inch	9.016	10.000	6.500
		[mm]	[229]	[254]	[165.1]

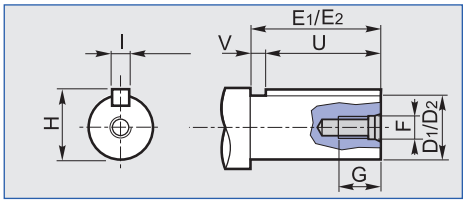
1 **Input shaft / *Eje de entrada***

		D1	E1	F	G	H	I	U	V
352	inch	1.000	1.969	5/16-18	0.709	1.109	0.250	1.500	0.469
	[mm]	[25.400]	[50.012]		[18.009]	[28.168]	[6.350]	[38.100]	[11.913]
353	inch	0.750	1.575	5/16-18	0.709	0.832	0.187	1.000	0.575
	[mm]	[19.050]	[40.005]		[18.009]	[21.133]	[4.750]	[25.400]	[14.605]

2 **Output shaft / *Eje de salida***

		D2	E2	F	G	H	I	U	V
352 353	inch	1.375	3.150	3/8-16	0.906	1.513	0.312	2.500	0.650
	[mm]	[34.925]	[80.010]		[23.012]	[38.430]	[7.925]	[63.500]	[16.510]





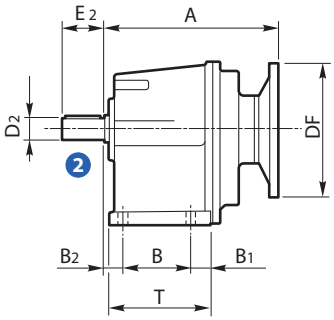
4.9 Dimensions

4.9 Dimensiones

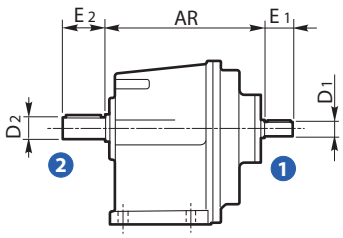
452 - 453

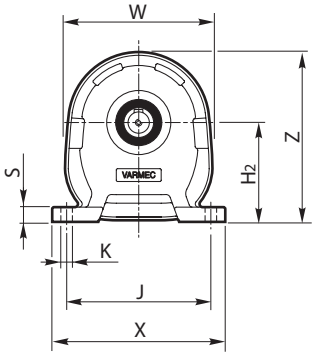
P

RCV ...



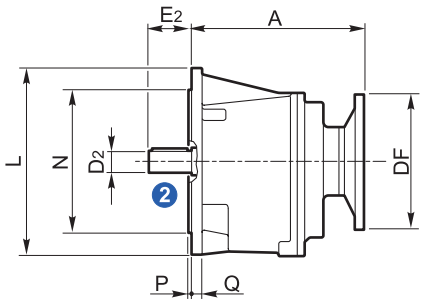
CV ...



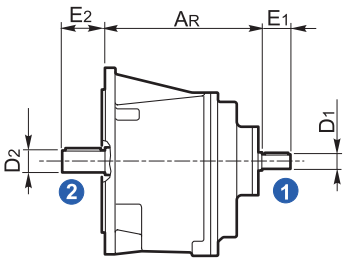


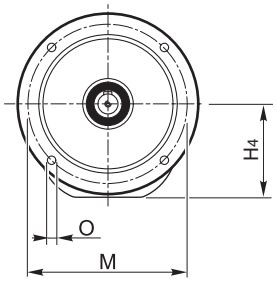
F

RCV ...



CV ...





N.B.
F = Flange mount
***F** = Brida integral*

RCV		AR	B	B1	B2	K	J	H2	H4	S	T	W	X	Z
452	inch	9.646 [245]	4.330	1.259	0.984	0.708	8.858	6.102	5.984	0.866	6.456	9.055	10.629	10.433
453	[mm]	10.039 [255]	[110]	[32]	[25]	[18]	[225]	[155]	[152]	[22]	[164]	[230]	[270]	[265]

		L	M	N h8	O	P	Q
F300	inch	11.811	10.433	9.055	0.511	0.197	0.709
	[mm]	[300]	[265]	[230]	[14]	[5]	[18]

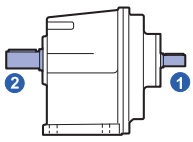
NEMA			A	DF
452	140	inch	10.472	6.500
		[mm]	[266]	[165.1]
	180	inch	10.709	9.000
		[mm]	[272]	[228.6]
	210	inch	10.709	9.000
		[mm]	[272]	[228.6]
453	140	inch	10.630	6.500
		[mm]	[270]	[165.1]
	180	inch	10.866	9.000
		[mm]	[276]	[228.6]

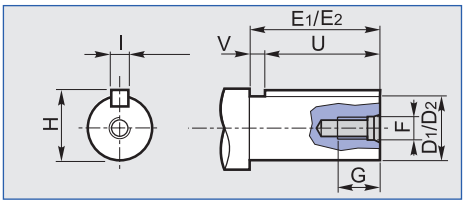
1 **Input shaft / *Eje de entrada***

		D1	E1	F	G	H	I	U	V
452	inch	1.125	2.362	5/16-18	0.709	1.236	0.250	1.750	0.612
	[mm]	[28.575]	[59.994]		[18.009]	[31.394]	[6.350]	[44.450]	[15.545]
453	inch	1.000	1.969	5/16-18	0.709	1.109	0.250	1.500	0.469
	[mm]	[25.400]	[50.012]		[18.009]	[28.168]	[6.350]	[38.100]	[11.913]

2 **Output shaft / *Eje de salida***

		D2	E2	F	G	H	I	U	V
452 453	inch	1.750	3.543	1/2-13	1.299	1.917	0.375	3.000	0.543
	[mm]	[44.450]	[89.992]		[32.994]	[48.691]	[9.525]	[76.200]	[13.792]





4.9 Dimensions

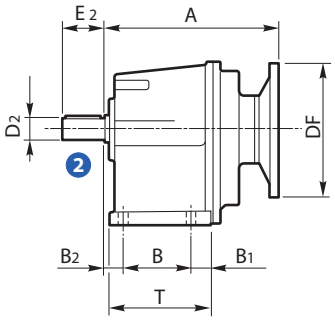
4.9 Dimensiones

552 - 553

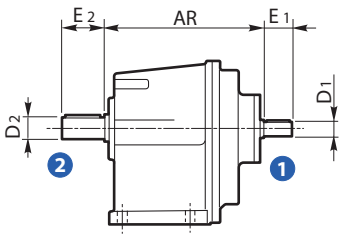
P

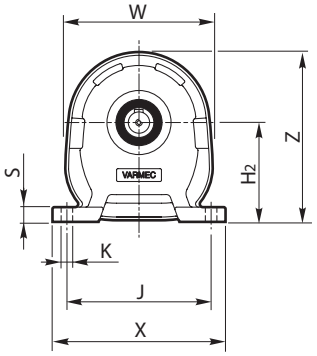
F

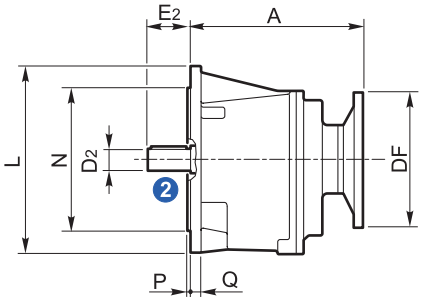
RCV ...

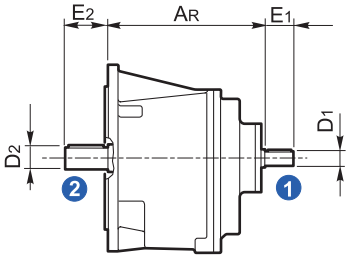


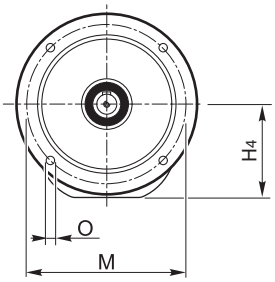
CV ...











N.B.
F = Flange mount
***F** = Brida integral*

RCV		AR	B	B1	B2	K	J	H2	H4	S	T	W	X	Z
552	inch	12.402 [315]	5.708	1.200	0.984	0.708	9.842	7.677	7.559	0.984	7.795	10.826	11.811	12.795
553	[mm]	12.008 [305]	[145]	[30.5]	[25]	[18]	[250]	[195]	[192]	[25]	[198]	[275]	[300]	[325]

		L	M	N h8	O	P	Q
F300	inch	11.811	10.433	9.055	0.511	0.197	0.709
	[mm]	[300]	[265]	[230]	[14]	[5]	[18]

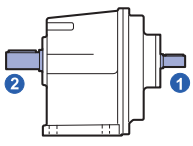
NEMA			A	DF
552	180	inch	12.008	9.000
		[mm]	[305]	[228.6]
	210	inch	12.008	9.000
		[mm]	[305]	[228.6]
	250	inch	13.031	9.000
		[mm]	[331]	[228.6]
	280	inch	13.661	11.252
		[mm]	[347]	[285.8]
553	140	inch	12.795	6.500
		[mm]	[325]	[165.1]
	180	inch	13.031	9.000
		[mm]	[331]	[228.6]
	210	inch	13.031	9.000
		[mm]	[331]	[228.6]

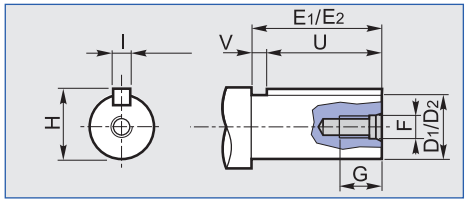
1 **Input shaft / *Eje de entrada***

		D1	E1	F	G	H	I	U	V
552	inch	1.500	3.150	3/8-16	0.906	1.664	0.375	2.750	0.400
	[mm]	[38.100]	[80.010]		[23.012]	[42.265]	[9.525]	[69.850]	[10.160]
553	inch	1.125	2.362	5/16-18	0.709	1.236	0.250	1.750	0.612
	[mm]	[28.575]	[59.994]		[18.009]	[31.394]	[6.350]	[44.450]	[15.545]

2 **Output shaft / *Eje de salida***

		D2	E2	F	G	H	I	U	V
552 553	inch	2.187	4.330	5/8-11	1.772	2.409	0.500	3.250	1.081
	[mm]	[55.549]	[109.982]		[45.008]	[61.188]	[12.700]	[82.550]	[27.203]





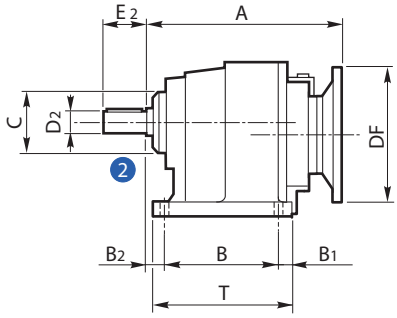
4.9 Dimensions

4.9 Dimensiones

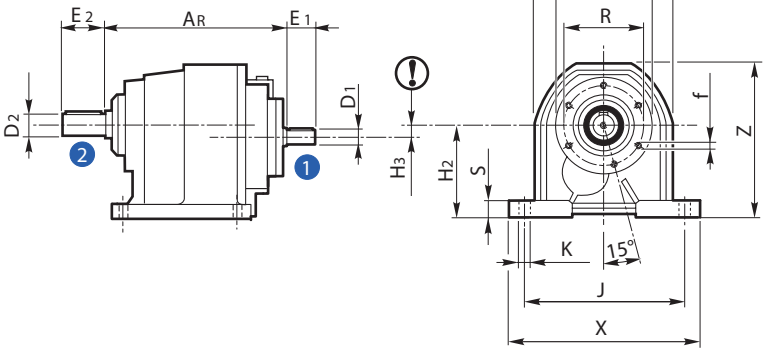
582 - 583

P

RCV ...

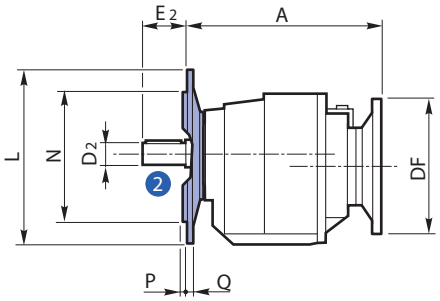


CV ...

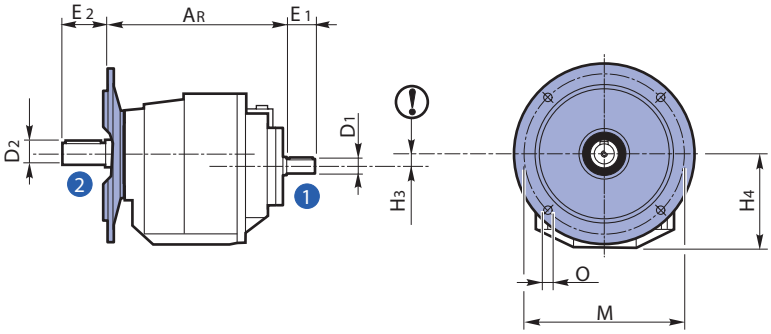


NF

RCV ...



CV ...



RCV		AR	B	B1	B2	C h7	f	K	J	H2	H3	H4	R	S	T	W	W1	X	Z
582	inch	14.488 [368]	6.496	2.126	0.984	5.906		0.866	11.811	8.268	0.335	8.268	7.087	1.181	9.449	8.661	7.087	13.780	13.583
583	[mm]	13.976 [355]	[165]	[54]	[25]	[150]	M14	[22]	[300]	[210]	[8.5]	[210]	[180]	[30]	[240]	[220]	[180]	[350]	[345]

		L	M	N h8	O	P	Q
NF300	inch	11.811	10.433	9.055	0.551	0.197	0.669
	[mm]	[300]	[265]	[230]	[14]	[5]	[17]
NF350	inch	13.780	11.811	9.843	0.709	0.197	0.669
	[mm]	[350]	[300]	[250]	[18]	[5]	[17]

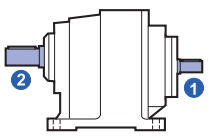
NEMA			A	DF
582	180	inch	14.094	9.000
		[mm]	[358]	[228.6]
	210	inch	14.094	9.000
		[mm]	[358]	[228.6]
	250	inch	15.118	9.000
		[mm]	[384]	[228.6]
	280	inch	15.748	11.251
		[mm]	[400]	[285.8]
583	140	inch	14.803	6.500
		[mm]	[376]	[165.1]
	180	inch	15.039	9.000
		[mm]	[382]	[228.6]
	210	inch	15.039	9.000
		[mm]	[382]	[228.6]

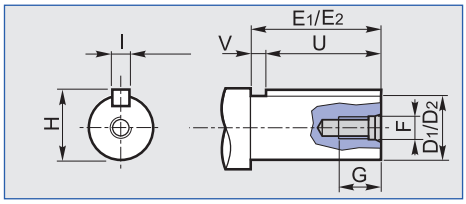
1 Input shaft / *Eje de entrada*

		D_1	E_1	F	G	H	I	U	V
582	inch	1.500	3.150	3/8-16	0.906	1.664	0.375	2.750	0.400
	[mm]	[38.100]	[80.010]		[23.012]	[42.265]	[9.525]	[69.850]	[10.160]
583	inch	1.125	2.362	5/16-18	0.709	1.236	0.250	1.750	0.612
	[mm]	[28.575]	[59.994]		[18.009]	[31.394]	[6.350]	[44.450]	[15.545]

2 Output shaft / *Eje de salida*

		D_2	E_2	F	G	H	I	U	V
582 583	inch	2.375	4.724	3/4-10	1.966	2.646	0.625	3.500	1.224
	[mm]	[60.325]	[119.989]		[49.936]	[67.208]	[15.875]	[88.900]	[31.089]

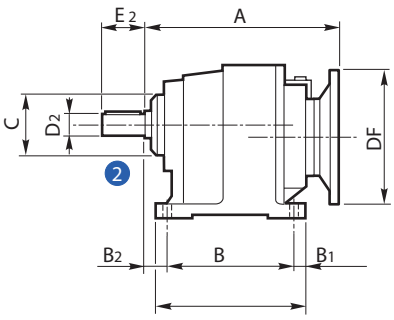




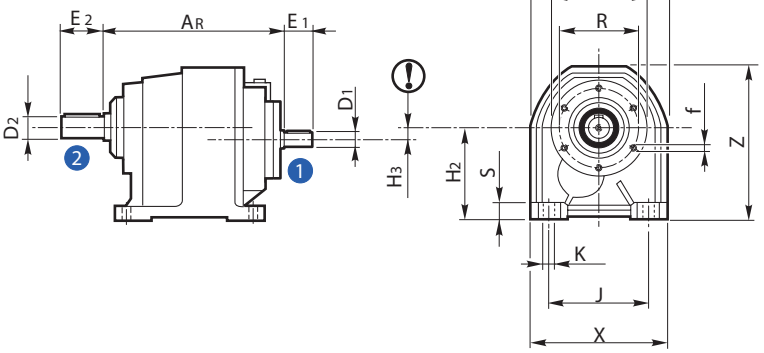
602 - 603

P

RCV ...

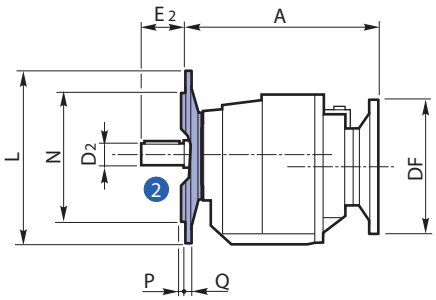


CV ...

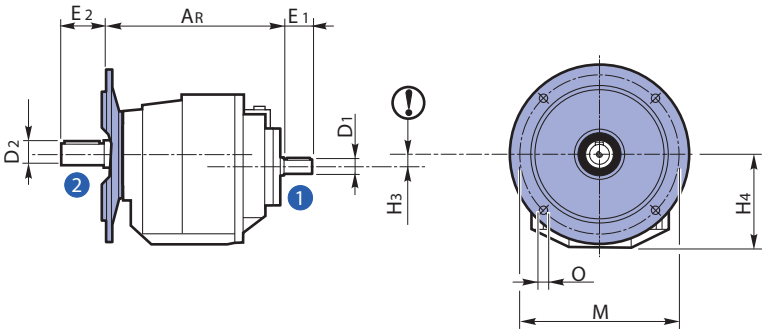


NF

RCV ...



CV ...



RCV		AR	B	B1	B2	C h7	f	K	J	H2	H3	H4	R	S	T	W	W1	X	Z
602	inch	15.944 [405]	12.205	1.083	1.575	5.906		0.866	9.843	8.858	1.118	8.740	7.087	1.378	14.370	8.661	7.087	13.386	14.764
603	[mm]	16.732 [425]	[310]	[27.5]	[40]	[150]	M14	[22]	[250]	[225]	[28.4]	[222]	[180]	[35]	[365]	[220]	[180]	[340]	[375]

		L	M	N h8	O	P	Q
NF300	inch	11.811	10.433	9.055	0.551	0.197	0.669
	[mm]	[300]	[265]	[230]	[14]	[5]	[17]
NF350	inch	13.780	11.811	9.843	0.709	0.197	0.669
	[mm]	[350]	[300]	[250]	[18]	[5]	[17]

NEMA			A	DF
602	180	inch	16.574	9.000
		[mm]	[421]	[228.6]
	210	inch	16.574	9.000
		[mm]	[421]	[228.6]
	250	inch	16.574	9.000
		[mm]	[421]	[228.6]
	280	inch	17.205	11.252
		[mm]	[437]	[285.8]
603	180	inch	12.795	9.000
		[mm]	[325]	[228.6]
	210	inch	13.031	9.000
		[mm]	[331]	[228.6]
	250	inch	13.031	9.000
		[mm]	[331]	[228.6]

1 Input shaft / *Eje de entrada*

		D_1	E_1	F	G	H	I	U	V
602	inch	1.500	3.150	3/8-16	0.906	1.664	0.375	2.750	0.400
	[mm]	[38.100]	[80.010]		[23.012]	[42.265]	[9.525]	[69.850]	[10.160]
603	inch	1.500	3.150	3/8-16	0.906	1.664	0.375	2.750	0.400
	[mm]	[38.100]	[80.010]		[23.012]	[42.265]	[9.525]	[69.850]	[10.160]

2 Output shaft / *Eje de salida*

		D_2	E_2	F	G	H	I	U	V
602 603	inch	2.375	4.724	3/4-10	1.966	2.646	0.625	3.500	1.224
	[mm]	[60.325]	[119.989]		[49.936]	[67.208]	[15.875]	[88.900]	[31.089]