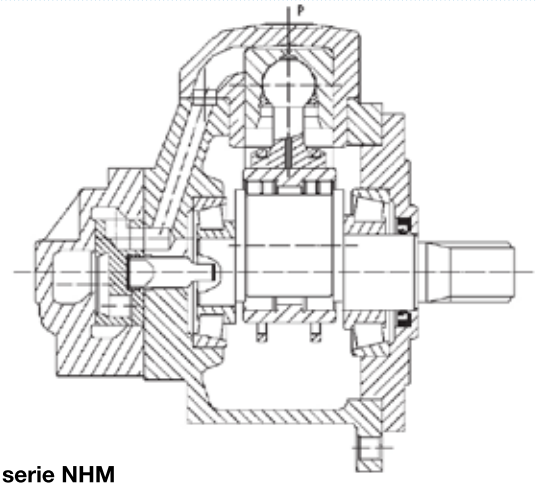
Motores Hidráulicos de Pistones Radiales

Serie NHM

Vista en Corte



Modelos serie NHM

Serie NHM	Cilindrada	Presión (bar)		Torque (Nm/bar)		Rotación	Peso
Tamaño	(cm3/rev)	cont.	máx.	cont.	espec.	(RPM)	(kg)
NHM1-63	77	250	320	284	1,1	15-1500	20
NHM1-80	91	250	320	335	1,3	15-1250	
NHM1-100	96	250	320	355	1,4	15-1000	
NHM1-110	113	250	320	419	1,7	15-1000	
NHM1-125	126	200	250	371	1,9	15-1000	
NHM1-140	138	200	250	410	2,0	15-1000	
NHM1-160	159	160	200	376	2,4	15-1000	
NHM1-200	196	160	200	464	2,9	15-800	
NHM2-100	113	250	320	419	1,7	15-1250	27
NHM2-125	138	250	320	512	2,0	15-1250	
NHM2-150	159	250	320	588	2,4	15-1000	
NHM2-175	180	200	250	532	2,7	15-1000	
NHM2-200	207	200	250	611	3,1	8-800	
NHM2-250	235	160	200	556	3,5	8-630	
NHM2-280	276	160	200	653	4,1	8-500	
NHM3-175	181	250	320	670	2,7	8-1000	35
NHM3-200	201	250	320	743	3,0	8-800	
NHM3-220	222	250	320	819	3,3	8-800	
NHM3-250	254	200	250	752	3,8	8-630	
NHM3-300	289	200	250	856	4,3	8-500	
NHM3-350	340	200	250	1000	5,0	8-400	
NHM3-400	380	180	225	1008	5,0	8-350	
NHM6-400	397	250	320	1469	5,9	5-630	57,5
NHM6-450	452	250	320	1672	6,7	5-630	
NHM6-500	491	200	250	1451	7,3	5-500	
NHM6-600	594	200	250	1756	8,8	4-500	
NHM6-700	683	160	200	1616	10,1	4-400	
NHM6-750	754	160	200	1785	11,2	4-320	

Serie NHM	Cilindrada	Presión (bar)		Torque (Nm/bar)		Rotación	Peso
Tamaño	(cm3/rev)	cont.	máx.	cont.	espec.	(RPM)	(kg)
NHM8-600	617	250	320	2282	9,1	4-500	72
NHM8-700	710	250	320	2626	10,5	4-400	
NHM8-800	810	200	250	2396	12,0	4-400	
NHM8-900	889	200	250	2629	13,1	4-350	
NHM8-1000	1000	160	200	2366	14,8	4-300	
NHM11-700	707	250	320	2612	10,4	4-400	94
NHM11-800	784	250	320	2899	11,6	4-400	
NHM11-900	894	250	320	3306	13,2	4-400	
NHM11-1000	981	200	250	2902	14,5	3-320	
NHM11-1100	1104	200	250	3265	16,3	3-320	
NHM11-1200	1234	160	200	2919	18,2	3-320	
NHM11-1300	1301	160	200	3079	19,2	3-250	
NHM16-1400	1413	250	320	5224	20,9	2-400	170
NHM16-1600	1648	200	320	4874	24,4	2-400	
NHM16-1800	1815	200	250	5367	26,8	2-350	
NHM16-2000	2035	180	225	5416	30,1	2-350	
NHM16-2400	2267	180	200	5364	33,5	2-250	
NHM31-2500	2553	250	320	9438	37,8	2-200	298
NHM31-2800	2683	200	250	7935	39,7	1-200	
NHM31-3000	3063	200	250	9057	45,3	1-200	
NHM31-3150	3218	200	250	9518	47,6	1-160	
NHM31-3500	3561	200	250	10530	52,7	1-160	
NHM31-4000	4153	180	225	11053	61,4	1-160	
NHM31-4500	4522	160	200	10698	66,9	1-160	
NHM31-5000	4828	160	200	11423	71,4	1-160	
NHM70-5000	4968	200	250	14626	73,1	1-160	550
NHM70-5400	5452	200	250	16125	80,6	1-160	
NHM70-6000	5984	200	250	17697	88,5	0,5-125	
NHM70-6300	6540	180	225	17408	96,7	0,5-125	
NHM70-7000	7122	160	200	16849	105,3	0,5-125	
NHM100-6300	6770	200	250	20021	100,1	0,5-125	700
NHM100-8000	8298	200	250	24541	121,7	0,5-125	
NHM100-8500	8842	180	225	23535	130,8	0,5-125	
NHM100-10000	9982	160	200	23617	147,6	0,5-100	
NHM160-12500	13334	200	250	39433	197,2	0,3-80	1000
NHM160-16000	16039	160	200	37948	237,2	0,3-63	

Código para ordenar

NHM ☐ ☐ ☐ ☐

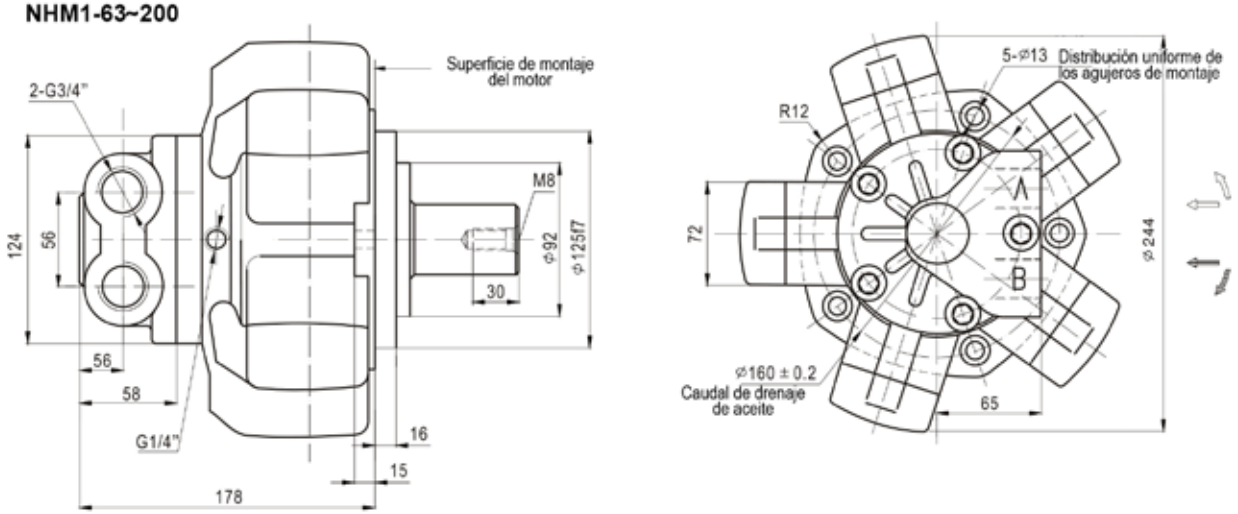
Serie
2-3-6-8-11-16-31-71-100-160

Cilindrada (ver tabla)

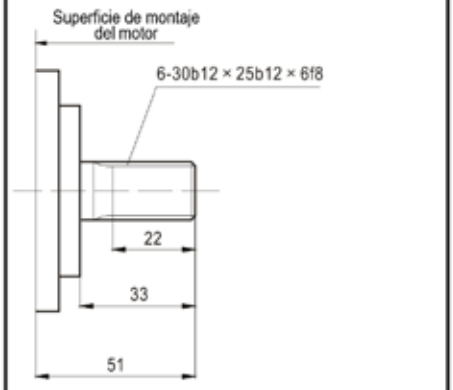
Ejes
_= estriado macho standard
b= paralelo chavetado
i= estriado hembra
sl, sm, n, k, nst= intercambiables
sai, calzoni, staffa (ver tabla ejes)

Distribuidor
D31= con conexión 3/4" gas para series nhm1, nhm2, nhm3, nhm6
D310= con conexión 1" gas para series nhm1, nhm2, nhm3, nhm6
D40= con conexión 1" gas para aplicaciones con alta rotación
D47= con conexión sae 1"-3000 psi para series nhm16
D90= con conexión sae 1 1/2"-6000 psi para series nhm31, nhm100 e nhm160
D250= distribuidor para alta caudal
(ver tabla de distribuidores)

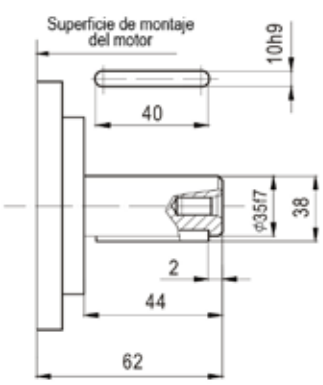
NHM1-63~200



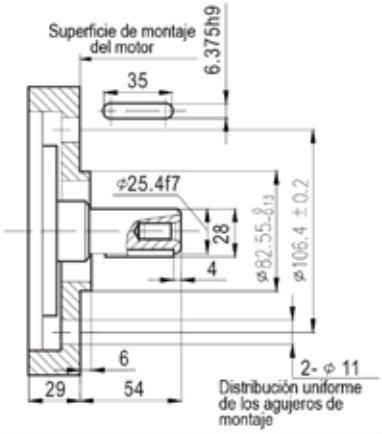
NHM1-**



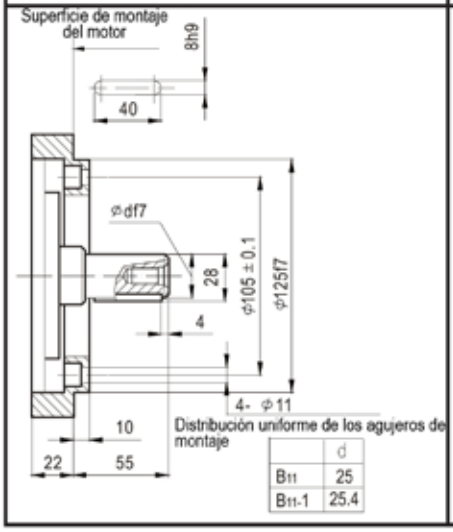
NHM1-**B



NHM1-**B3



NHM1-**B11



	d
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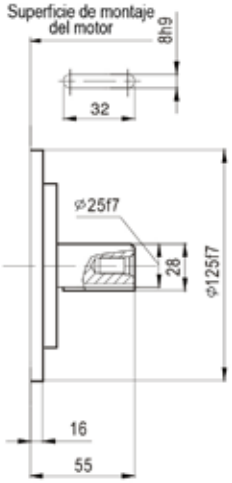
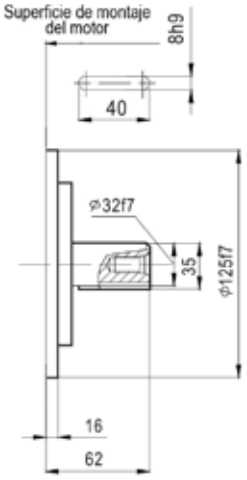
B11-1	25.4

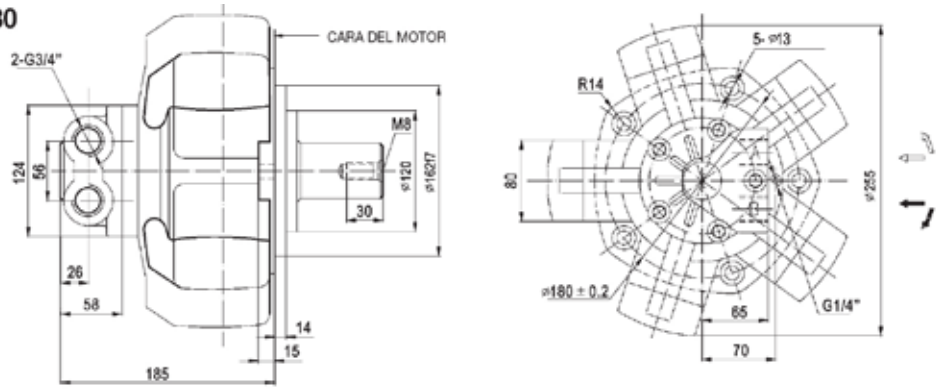
NHM1-**B26

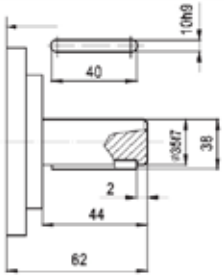
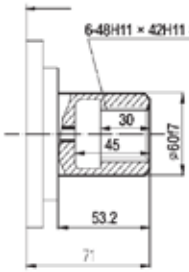
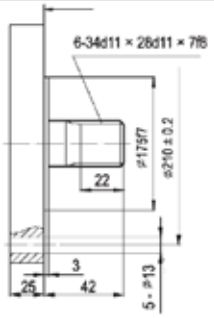


NHM1-**B31



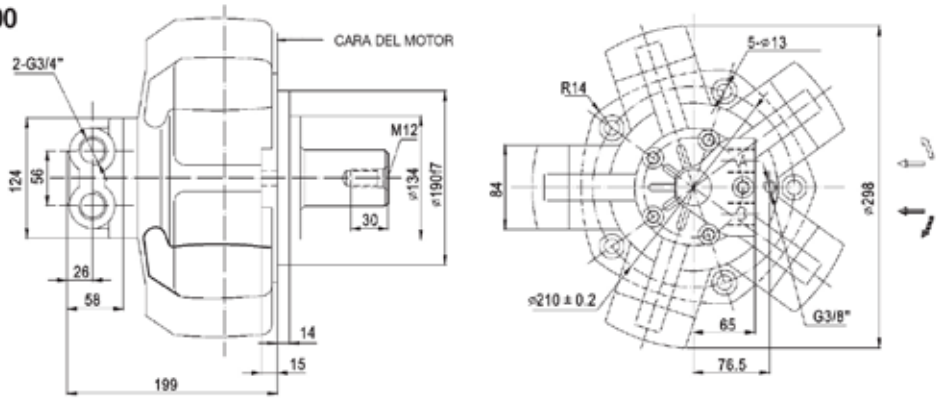
NHM2 - 100 - 280

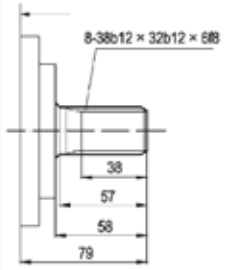
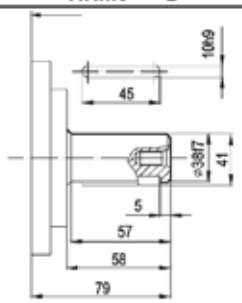
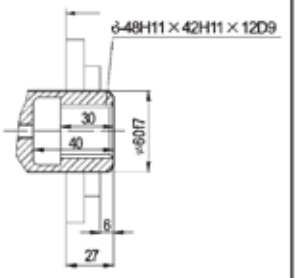
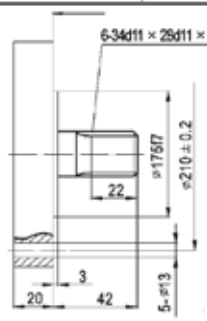
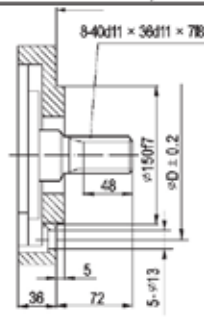


NHM2 - **	NHM2 - **B	NHM2 - **I	NHM2 - **SL1, DIN5463
			

Intercambiable SAI GMI, MI, LI Series

NHM3 - 175 - 400

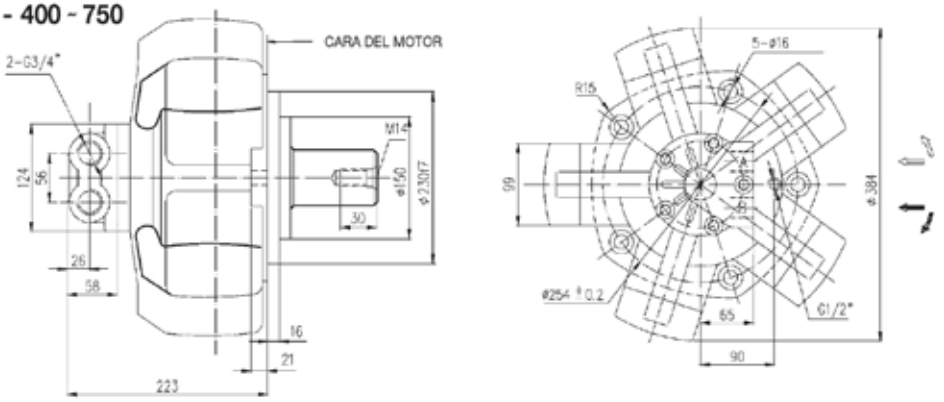


NHM3 - **	NHM3 - **B	NHM3 - **I	NHM3 - **SL1, DIN5463	NHM3 - **SL2 SL3, DIN5463
				

Intercambiable SAI
GM1, M1, L1 Series

Intercambiable SAI
SL2= L2, M2 øD= 195
SL3= GM2 (motor con brida)
øD= 250

NHM6 - 400 - 750



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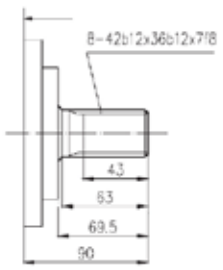
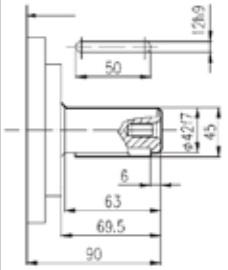
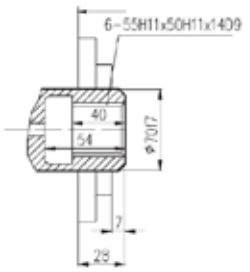


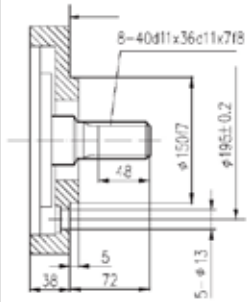
NHM6 - **B



NHM6 - **I



NHM6 - **SL₂, DIN5463

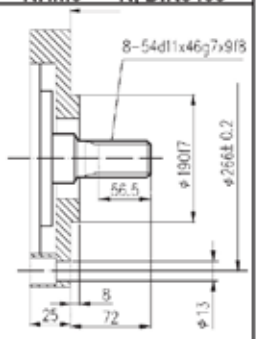


Intercambiable SAI
L2 e M2

NHM6 - **SL₃, DIN5463

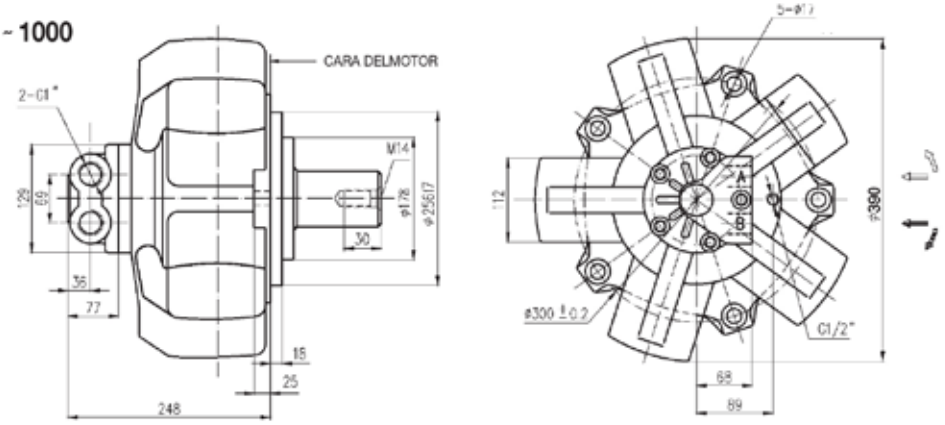
Intercambiable SAI
GM2

NHM6 - **N, DIN5463

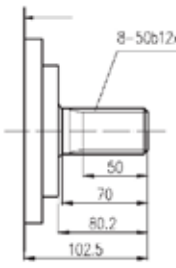


Intercambiable
CALZONI MR, familia "E"

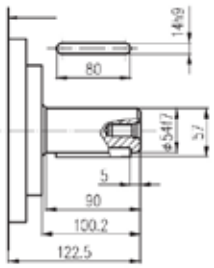
NHM8 - 600 - 1000



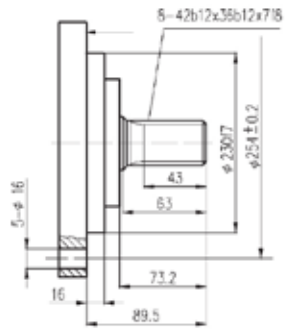
NHM8 - **



NHM8 - **B

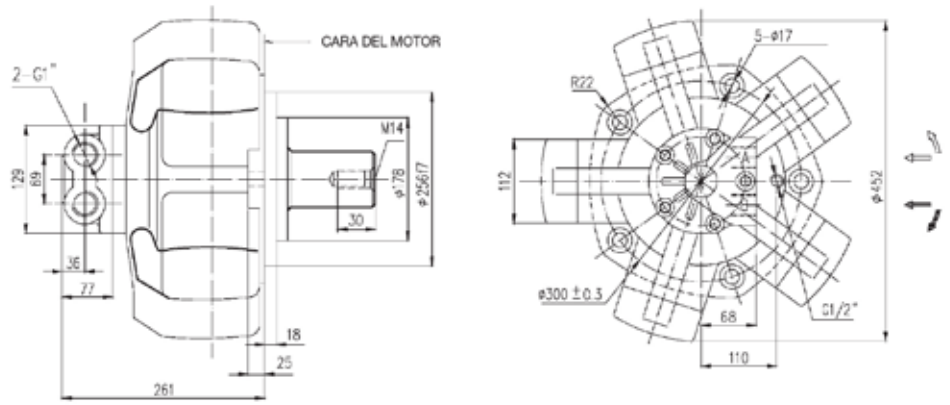


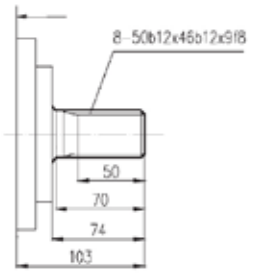
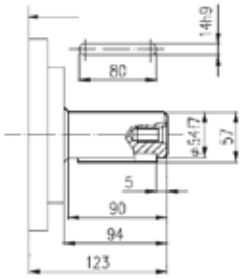
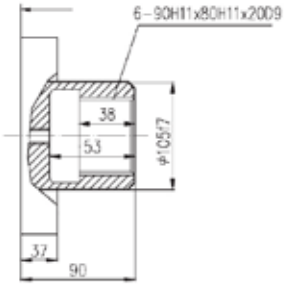
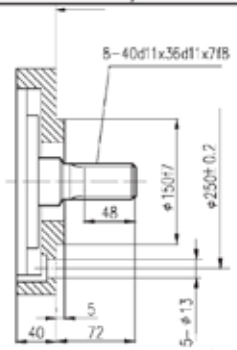
NHM8 - **6M, DIN5463

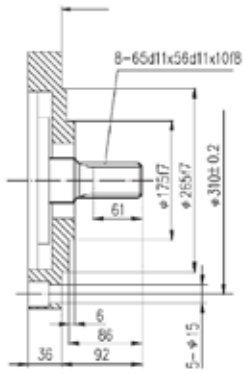
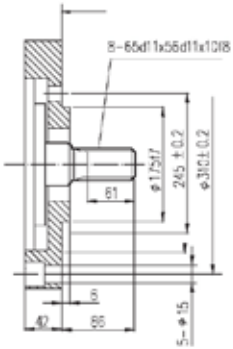
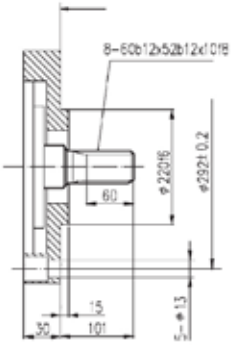
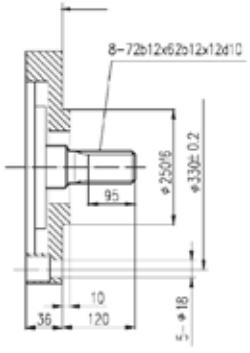


Intercambiable INTERMOT IAM H3 séries

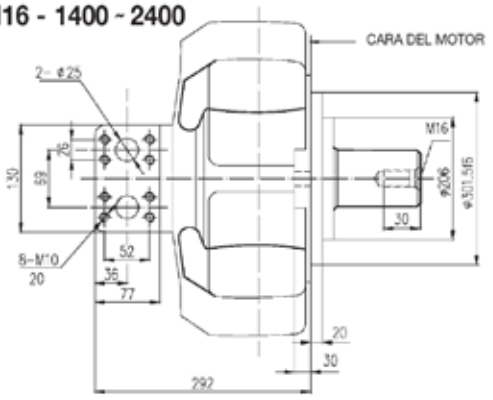
NHM11 - 700 ~ 1300

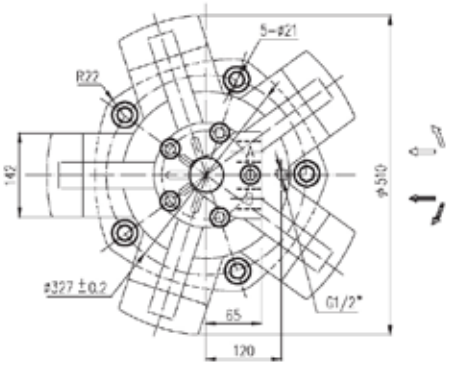


NHM11 - **	NHM11 - **B	NHM11 - **I	NHM11 - **SL3, DIN5462
			
			Intercambiable SAI L3

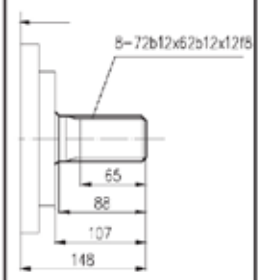
NHM11 - **SL5, DIN5463	NHM11 - **SM4, DIN5463	NHM11 - **N1, DIN5463	NHM11 - **K, DIN5463
			
Intercambiable SAI M5 e L5	Intercambiable SAI M4	Inter. CALZONI MR familia "F"	Intercambiable CALZONI familia "G"

NHM16 - 1400 - 2400

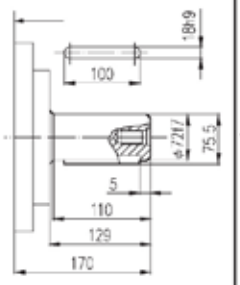




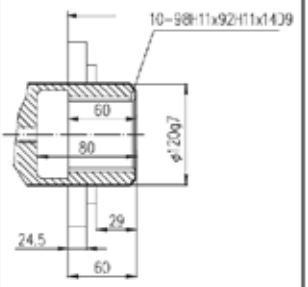
NHM16 - **



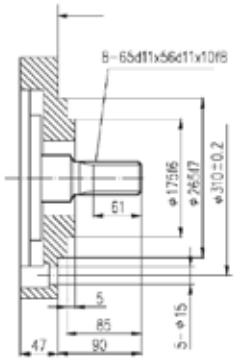
NHM16 - **B



NHM16 - **I

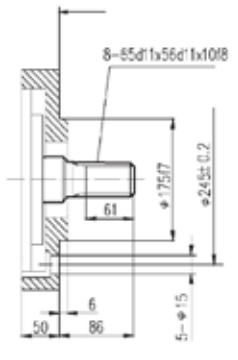


NHM16 - **SL5, DIN5463



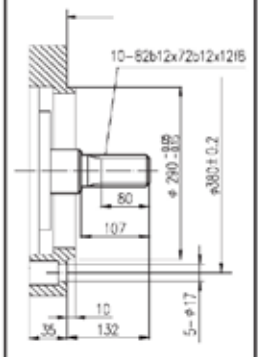
Intercambiable SAI M5 e L5

NHM16 - **SM4, DIN5463



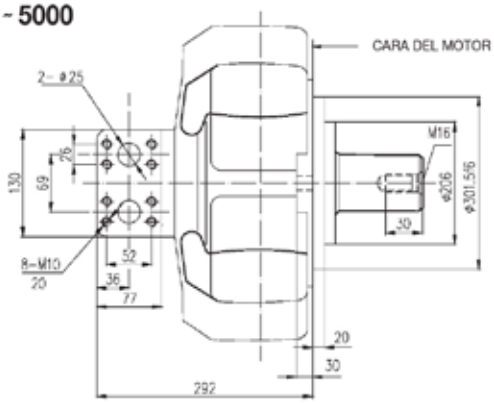
Intercambiable SAI M4

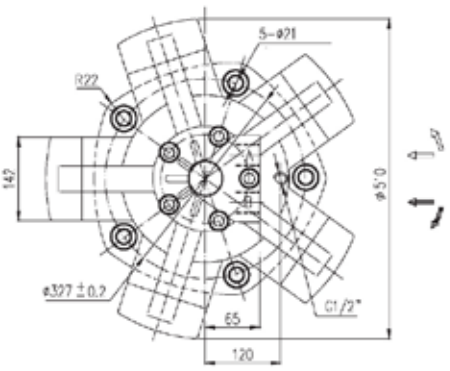
NHM16 - **N, DIN5463



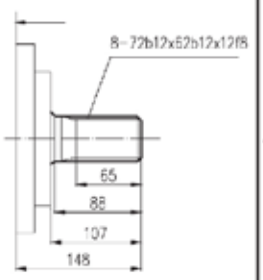
Intercambiable
CALZONI MR, familia "H"

NHM31 - 2500 - 5000

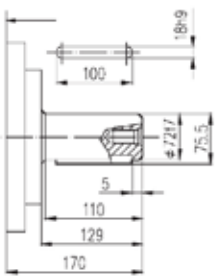




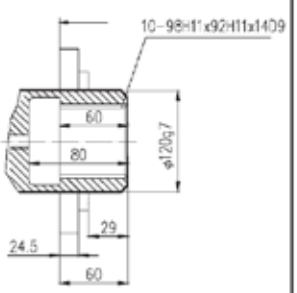
NHM31 - **



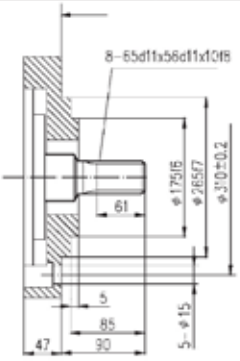
NHM31 - **B



NHM31 - **I

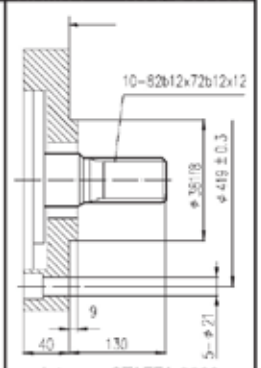


NHM31 - **SL7, BS3550



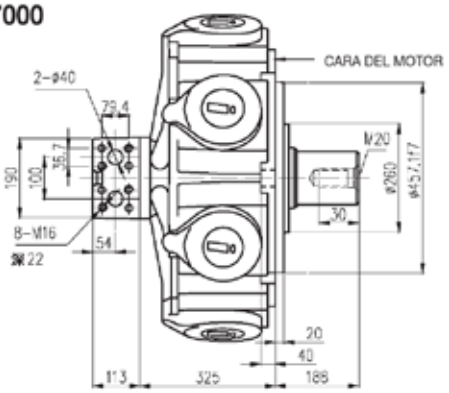
Intercambiable xx SAI L7

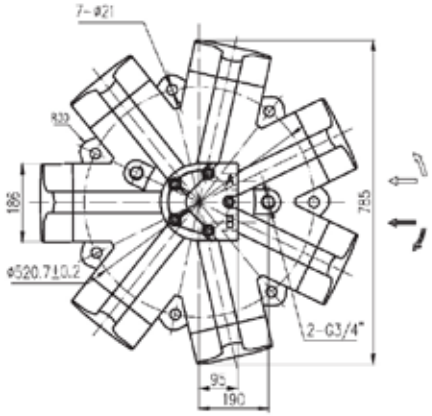
NHM31 - **NST, BS3550

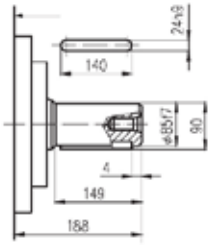
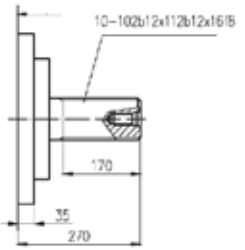
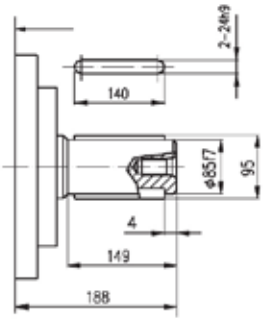


Inter. xx STAFFA 3200

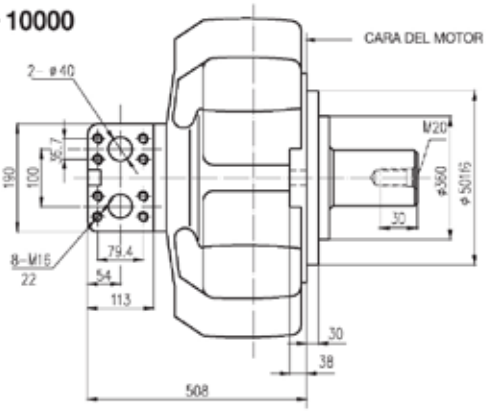
NHM70 - 5000 - 7000

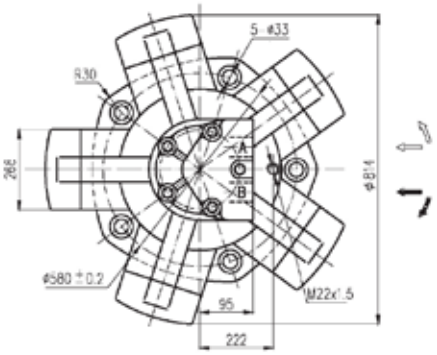


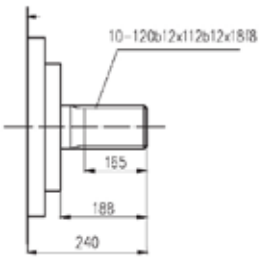
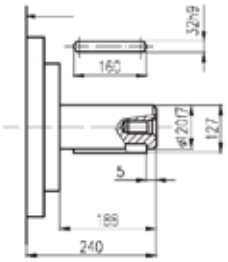
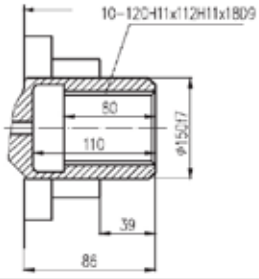


NHM70 - **B	NHM70 - **a3	NHM70 - **BC
		

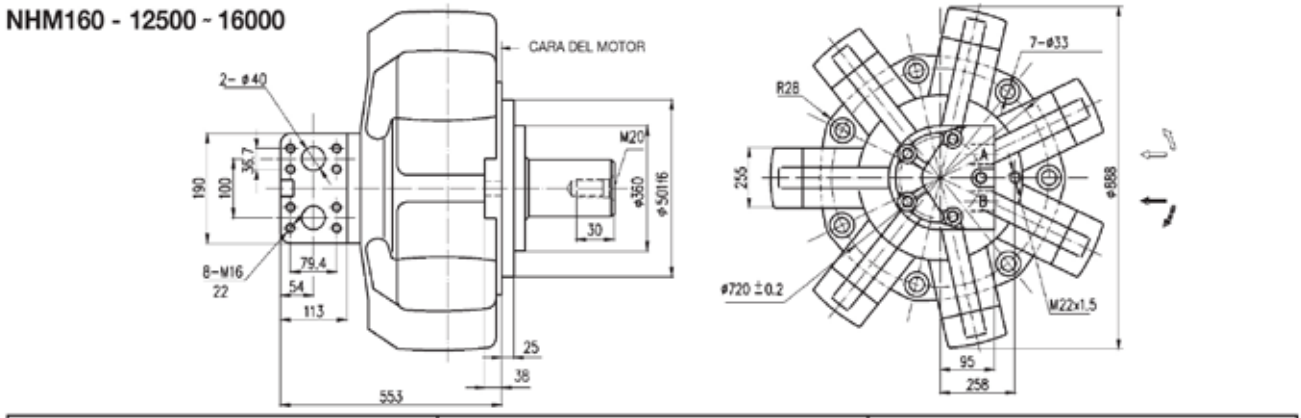
NHM100 - 6300 - 10000

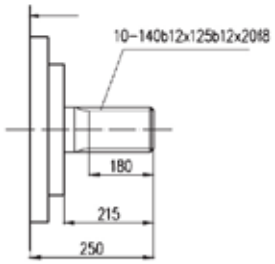
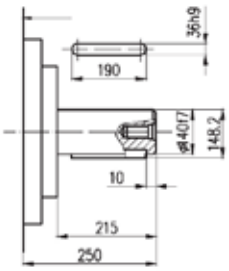
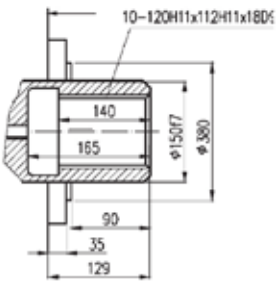




NHM100 - **	NHM100 - **B	NHM100 - **I
		

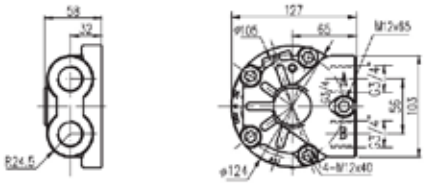
NHM160 - 12500 - 16000



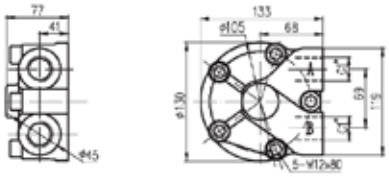
NHM160 - **B	NHM160 - **B	NHM160 - **I
		

Modelos de distribuidores y sus dimensiones

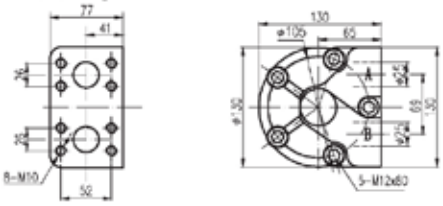
D31 con 3/4" puerto para NHM1, NHM2, NHM3, NHM6 series. Peso: 3 kg



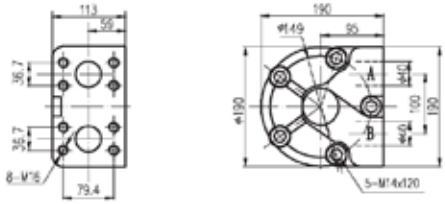
D40 standard para NHM8, NHM11, y motores chicos con alta velocidad. Peso: 5 kg



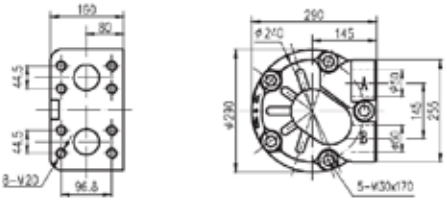
D47 con ø25 brida para NHM16 series. Peso: 6 kg



D90 para grandes caudales usar eje distribuidor para NHM31, NHM100, NHM160. Peso: 14,5 kg



D250 distribuidor para altos cuadales Peso: 50 kg



Motores Hidráulicos de Pistones Radiales

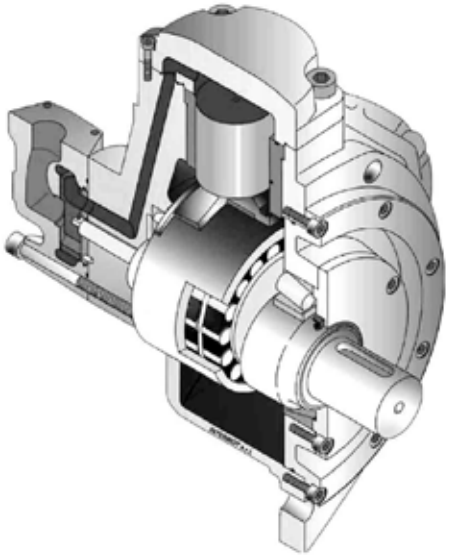
Serie IAM

Modelos serie IAM

Serie IAM Tamaño		Número de pistones	Desplaz.	Torque especif.	Presión (bar)			Velocidad		Máx. case presión	Fuerza máx.		Peso seco	Momento de inercia
					cont.	inter.	pico	cont.	pico					
			(cc/rev)	Nm/bar	bar	bar	bar	rpm	rpm	bar	hp	kw	kg	kg cm2
IAM 80	H1	5	80	1.3	250	300	350	950	1050	6	54	40	26	18
IAM 100		5	100	1.6	250	300	350	950	1050	6	54	40	26	18
IAM 150		5	157	2.5	250	300	350	950	1050	6	54	40	26	18
IAM 175		5	176	2.8	250	300	350	800	900	6	54	40	26	18
IAM 195		5	195	3.1	250	300	350	800	900	6	54	40	26	18
IAM 200		5	207	3.3	250	300	350	750	850	6	54	40	26	18
IAM 250		5	257	4.1	250	300	350	750	850	6	54	40	26	18
IAM 300		5	307	4.9	250	300	350	750	850	6	54	40	26	18
IAM 200	H2	5	198	3.2	250	300	350	800	900	6	66	49	42	27
IAM 250		5	253	4.0	250	300	350	750	850	6	66	49	42	27
IAM 300		5	314	5.0	250	300	350	750	850	6	66	49	42	27
IAM 350		5	362	5.8	250	300	350	650	750	6	66	49	42	27
IAM 350	H3	5	349	5.6	250	300	350	630	700	6	91	68	68	214
IAM 400		5	397	6.3	250	300	350	600	680	6	91	68	68	214
IAM 450		5	452	7.2	250	300	350	600	680	6	91	68	68	214
IAM 500		5	491	7.8	250	300	350	600	680	6	91	68	68	214
IAM 600		5	594	9.4	250	300	350	550	630	6	91	68	68	214
IAM 650		5	660	10.5	250	300	350	500	580	6	91	68	68	214
IAM 700		5	707	11.2	250	300	350	450	500	6	91	68	68	214
IAM 700	H4	5	714	11.4	250	300	350	500	580	6	107	80	92	267
IAM 800		5	792	12.6	250	300	350	450	530	6	107	80	92	267
IAM 850		5	847	13.5	250	300	350	450	530	6	107	80	92	267
IAM 900		5	904	14.4	250	300	350	450	530	6	107	80	92	267
IAM 1000		5	992	15.8	250	300	350	330	400	6	107	80	92	267
IAM 1100		5	1116	17.8	250	300	350	330	400	6	107	80	92	267
IAM 1200		5	1192	19.0	250	300	350	300	350	6	107	80	92	267
IAM 1250		5	1247	19.8	250	300	350	250	300	6	107	80	92	267
IAM 1400		5	1332	21.2	250	300	350	230	280	6	107	80	92	267
IAM 1100	H45	5	1183	18.8	250	300	350	350	400	6	161	120	118	380
IAM 1400		5	1376	21.9	250	300	350	300	350	6	161	120	118	380
IAM 1600		5	1648	26.2	250	300	350	275	325	6	161	120	118	380
IAM 1800		5	1815	28.9	250	300	350	250	300	6	161	120	118	380
IAM 1000	H5	5	1094	17.4	250	300	350	350	400	6	161	120	173	697
IAM 1200		5	1231	19.6	250	300	350	300	350	6	161	120	173	697
IAM 1400		5	1376	21.9	250	300	350	300	350	6	161	120	173	697
IAM 1500		5	1528	24.3	250	300	350	300	350	6	161	120	173	697
IAM 1600		5	1648	26.2	250	300	350	300	340	6	161	120	173	697
IAM 1800		5	1815	28.9	250	300	350	250	300	6	161	120	173	697
IAM 2000		5	2035	32.4	250	300	350	230	260	6	161	120	173	697
IAM 2200		5	2220	35.3	250	300	350	220	240	6	161	120	173	697
IAM 2200	H55	5	2126	33.8	250	300	350	240	280	6	228	170	173	837
IAM 2500		5	2525	40.2	250	300	350	240	280	6	228	170	173	837
IAM 2800		5	2807	44.7	250	300	350	240	280	6	228	170	173	837
IAM 3000		5	3028	48.2	250	300	350	230	270	6	228	170	173	837
IAM 2200	H6	5	2206	35.1	250	300	350	220	260	6	228	170	308	1745
IAM 2500		5	2525	40.2	250	300	350	220	260	6	228	170	308	1745
IAM 2800		5	2807	44.7	250	300	350	220	260	6	228	170	308	1745
IAM 3000		5	2983	47.5	250	300	350	210	250	6	228	170	308	1745
IAM 3200		5	3289	52.3	250	300	350	200	240	6	228	170	308	1745
IAM 3500		5	3479	55.4	250	300	350	200	240	6	228	170	308	1745
IAM 3900	H7	7	3907	62.2	250	300	350	160	200	6	241	180	405	4064
IAM 4300		7	4343	69.1	250	300	350	150	190	6	241	180	405	4064
IAM 4600		7	4616	73.5	250	300	350	140	190	6	241	180	405	4064
IAM 5000		7	5088	81.0	250	300	350	140	180	6	241	180	405	4064
IAM 5400		7	5384	85.7	250	300	350	130	170	6	241	180	405	4064
IAM 6000	H8	10	5966	95.0	250	290	320	120	140	6	255	190	590	5380
IAM 6500		10	6581	104.7	250	290	320	120	140	6	255	190	590	5380
IAM 6800		10	6581	110.8	250	290	320	120	140	6	255	190	590	5380
IAM 7600		10	7620	121.3	190	230	280	90	100	6	241	180	590	5380
IAM 8000		10	8062	128.3	190	230	270	80	90	6	241	180	590	5380

Nuevo concepto de rodamiento

Intermot Italia produce motores radiales desde 1985. El rango abarca de 80 a 8500 cc/rev.



Código para ordenar

IAM [---] [/--] [H-] [A-] [D--] [---] [SB-] [---] [---] [---]

Desplazamiento

Intercambiabilidad (Opcional)
/C /B10 /B30 /B45 /B60
/B80 /B100 /B125 /B150 /B200
/BH /PH /GM05 /GM1 /GM2
/GM3 /GM4 /GM5 /GM3 /S

Housing
H1 H2 H3 H4 H45 H5 H55 H6 H7 H8

Ejes
A0= estriado standard
A1= estriado
A2= cilíndrico con chaveta
A3= hembra
A4= cónico
A..= otros

Distribuidor
D31= con conexión 3/4" gas
D310= con conexión 1" gas
D40= con conexión 1" gas para aplicaciones con alta rotación
D47= con conexión SAE 1"-3000 psi
D55=
D75=
D90= con conexión SAE 1 1/2"-6000 psi nhm31, nhm100 e nhm160
D200=

Distribuidor
D31= con conexión 3/4" gas

Opciones (opcional)
01= VITON
02=
03=

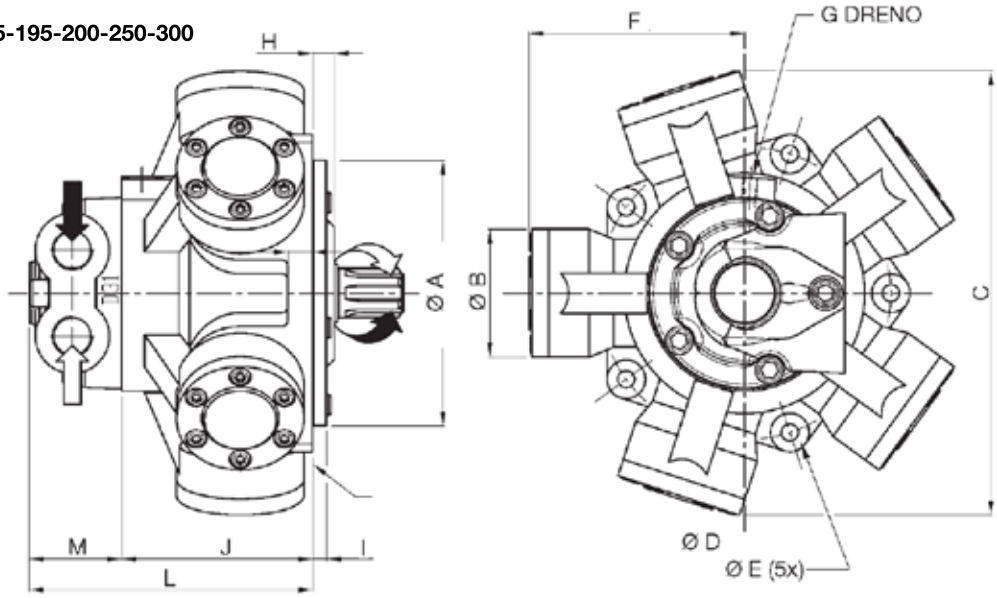
Brida (opcional)
FL1 FL2 FL3 FL4
FL5 FL6 FL7

Válvulas (opcional)
RDVA OVSA OVDA
ORVSA RVDAP

Billet Estriado
SB1= 26X32 UNI 221
SB2= 32X38 UNI 221
SB3= 36X42 UNI 221
SB4= 46X50 UNI 220
SB5= 46X54 UNI 221
SB6= 62X72 UNI 221
SB7= BS.3550.14T.6/12
SB8= 72X82 UNI 222
SB9= 82X92 UNI 221
SB10= BS.3550.20T.6/12
SB11= 102X112 UNI 222
SB12= 112X115 UNI 222
SB14= 28X34 UNI 221
SB15= 42X48 UNI 222
SB16= 52X60 UNI 222
SB17= 56X65 UNI 221

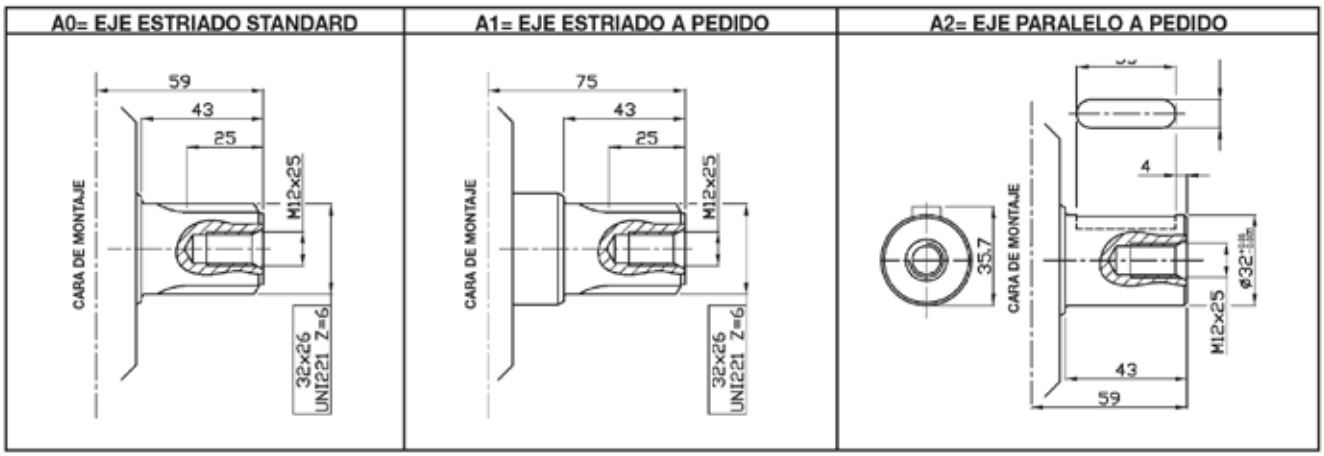
Dimensiones

IAM- SERIE H1
80-100-150-175-195-200-250-300

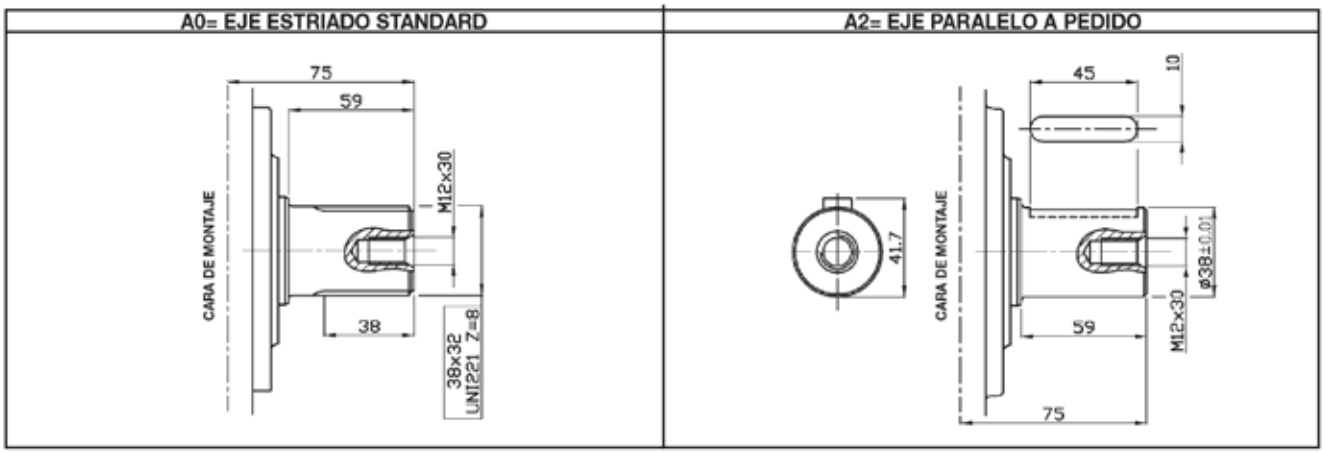


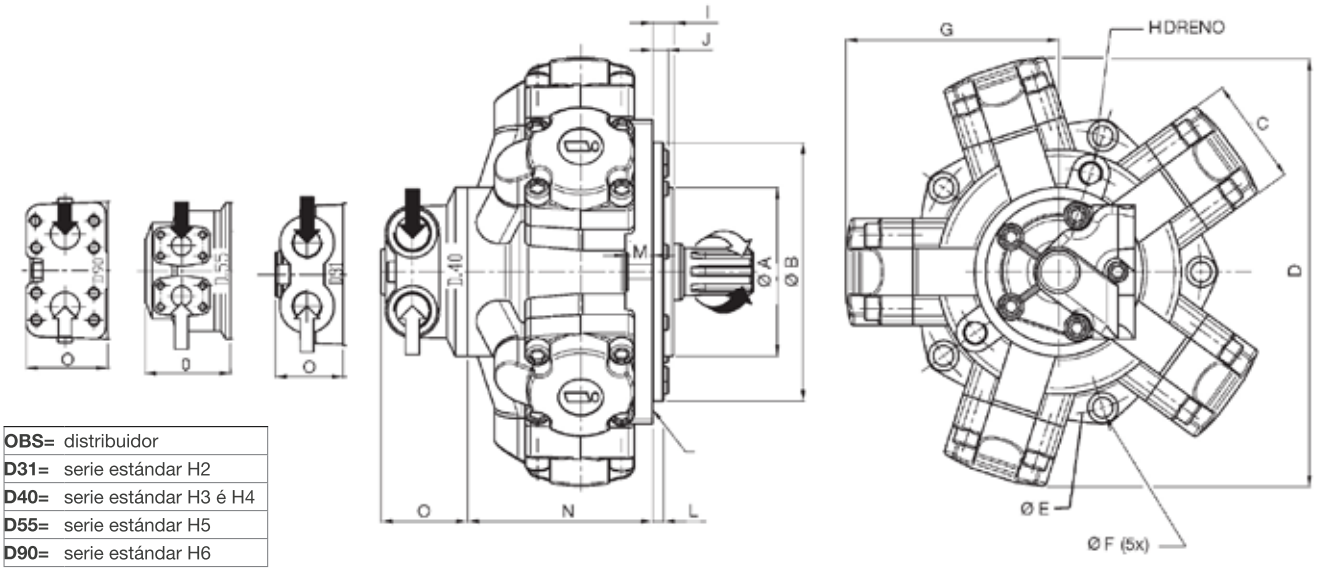
Serie	øA	øB	C	øD	øE (5x)	F	G (dreno)	H	I	J	L	M	Dist.Padráo
H1- 80 a 195	172	83	288	190	11	140	3/8"BSP (1x)	14	9	124	184	60	D40
H1- 200 a 300	190	83	288	210	12.5	140	3/8"BSP (1x)	14	6	116	176	60	D40

EJES: 80 a 195



EJE: 200 a 300



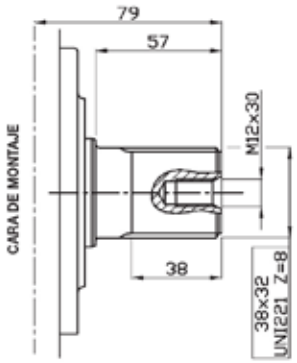


OBS=	distribuidor
D31=	serie estándar H2
D40=	serie estándar H3 é H4
D55=	serie estándar H5
D90=	serie estándar H6

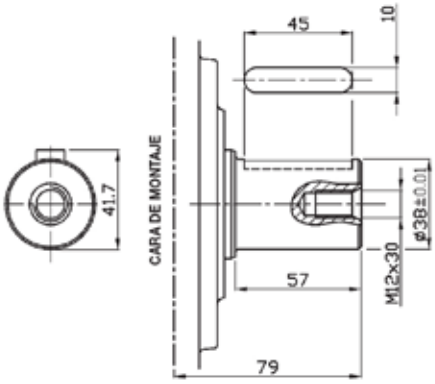
Serie	øA	øB	C	D	øE (5x)	ØF (5x)	G	H (dreno)	I	J	L	M	N	O	Dist. Estándar
H2	82	190	86	341	210	12,5	165	3/8"BSP (1x)	20	9	14	20	141	60	D31
H3	150	230	95	386	254	15,2	190	1/2"BSP (1x)	19	14	10	24	165	77	D40
H4	160	256	114	452	300	16,2	224	1/2"BSP (2x)	24	16	14	26	179	77	D40
H5	230	301,6	146	545	327	20,5	264	1/2"BSP (2x)	35	19	16	35	215	107	D55
H6	248	381	174	667	419,1	20,5	328	3/4"BSP (2x)	34	-	23	35	266	113	D90

EJE H2

A0= EJE ESTRIADO STANDARD

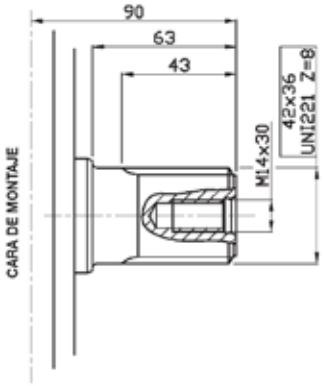


A2= EJE PARALELO A PEDIDO

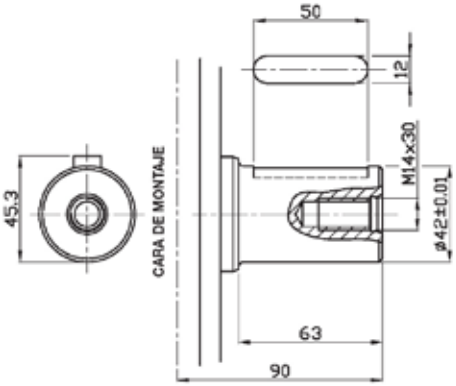


EJE H3

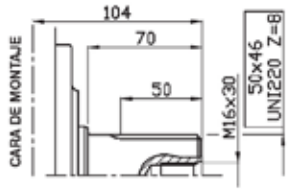
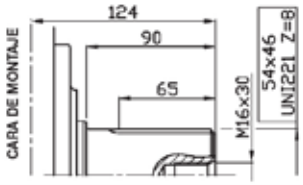
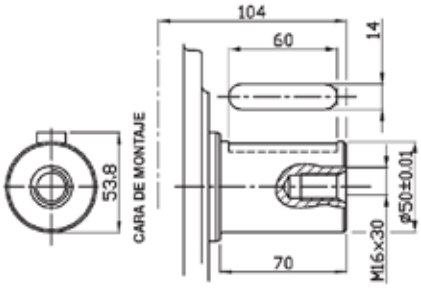
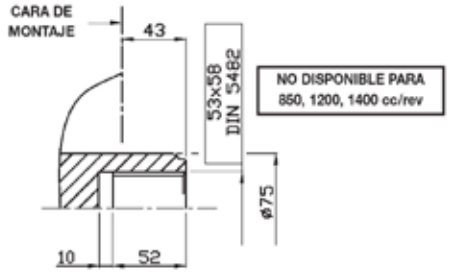
A0= EJE ESTRIADO STANDARD



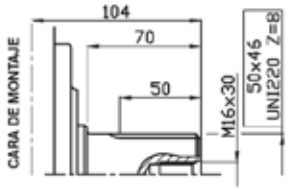
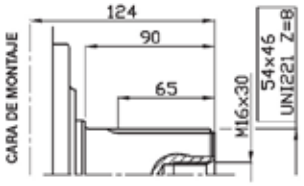
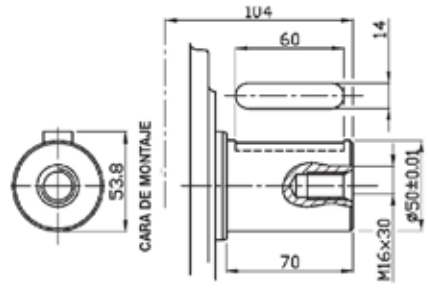
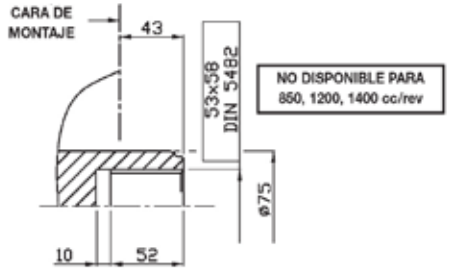
A2= EJE PARALELO A PEDIDO



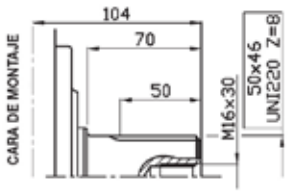
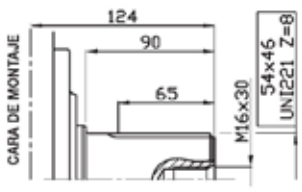
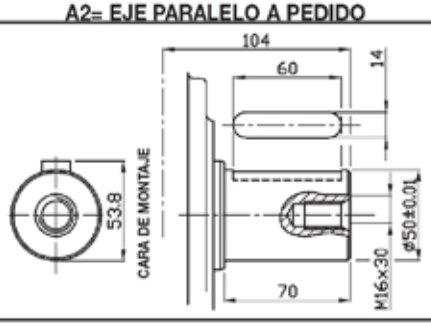
EJE H4

A0= EJE ESTRIADO STANDARD	A1= EJE ESTRIADO A PEDIDO
	
A2= EJE PARALELO A PEDIDO	**A3= EJE HEMBRA A PEDIDO**
	

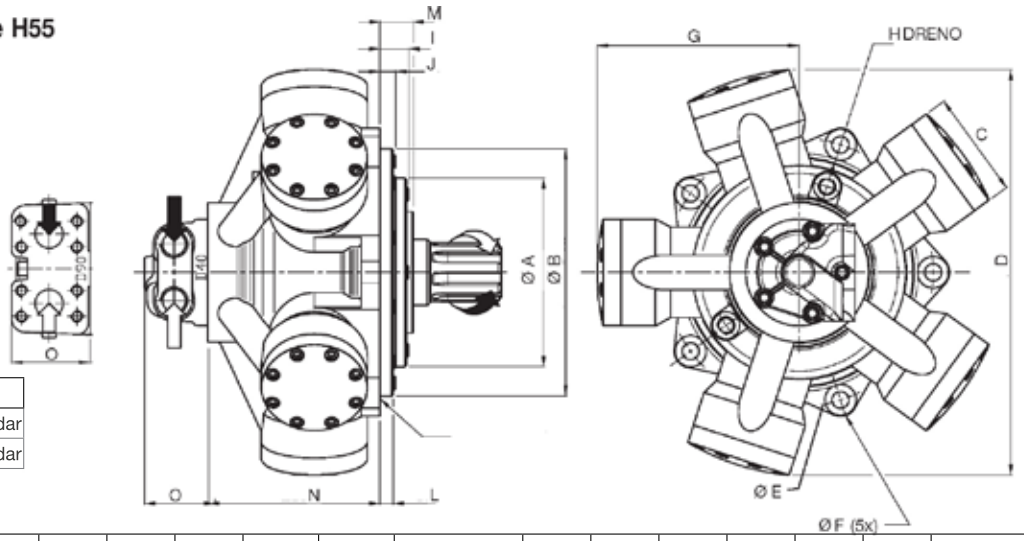
EJE H5

A0= EJE ESTRIADO STANDARD	A1= EJE ESTRIADO A PEDIDO
	
A2= EJE PARALELO A PEDIDO	**A3= EJE HEMBRA A PEDIDO**
	

EJE H6

A0= EJE ESTRIADO STANDARD	A1= EJE ESTRIADO A PEDIDO	A2= EJE PARALELO A PEDIDO
		

IAM- SERIE H45 e H55



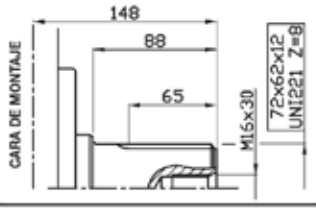
OBS=	distribuidor
D40=	serie H45 estándar
D55	serie H55 estándar

• para otras dimensiones e información ver pag.

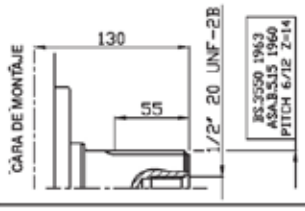
Serie	øA	øB	C	D	øE (5x)	ØF (5x)	G	H (dreno)	I	J	L	M	N	O	Dist. Estándar
H45	230	301,6	130	495	327	20,5	246	1/2"BSP (2x)	35	19	16	41	210	77	D40
H55	248	381	148	574	419,1	20,5	285	3/4"BSP (2x)	34	-	23	-	256	113	D90

EJE H45

A0= EJE ESTRIADO STANDARD

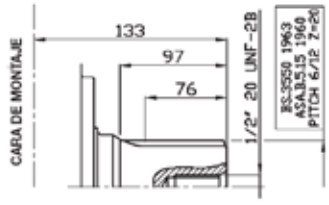


A2= EJE ESTRIADO A PEDIDO



EJE H55

A1= EJE ESTRIADO STANDARD



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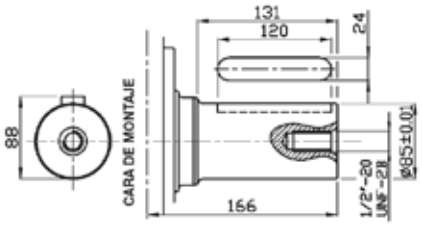
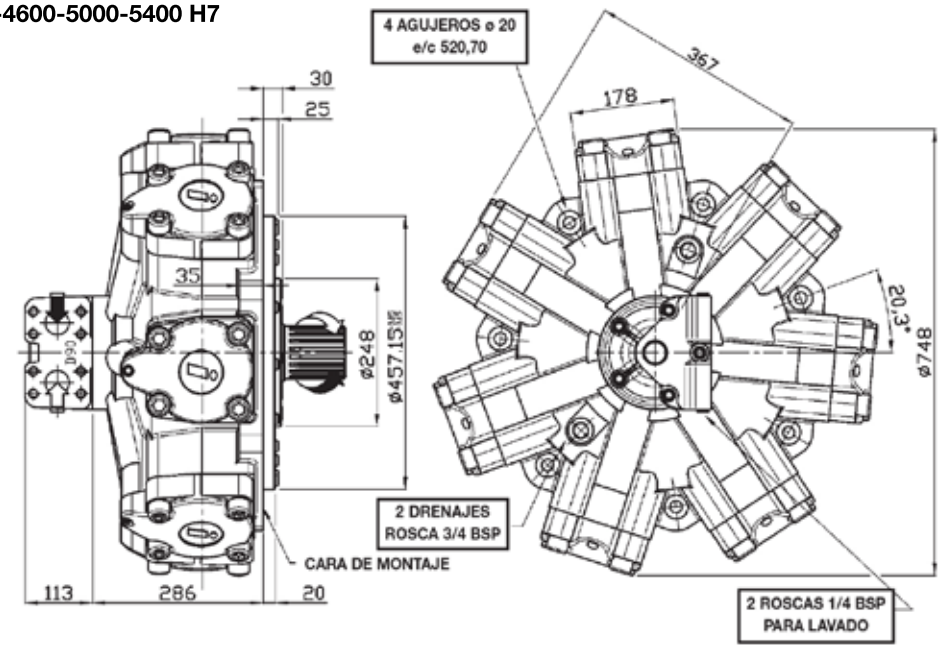
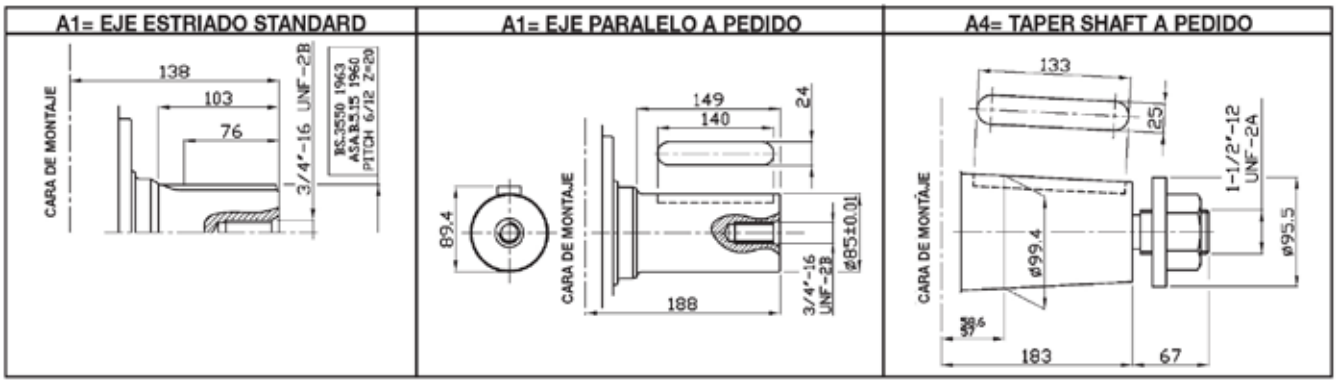
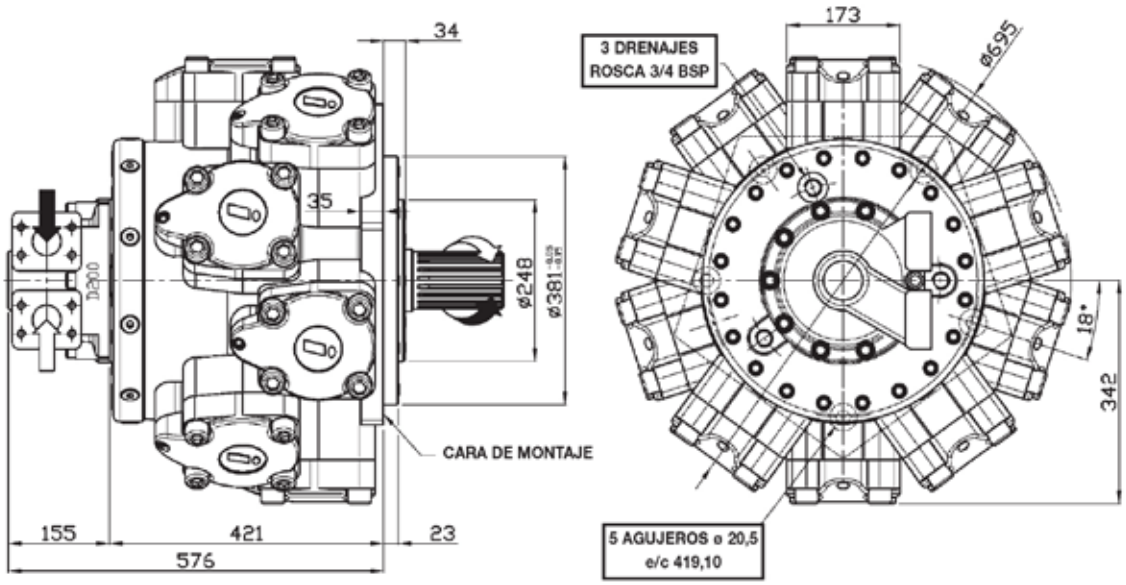


IAM- 3900-4300-4600-5000-5400 H7



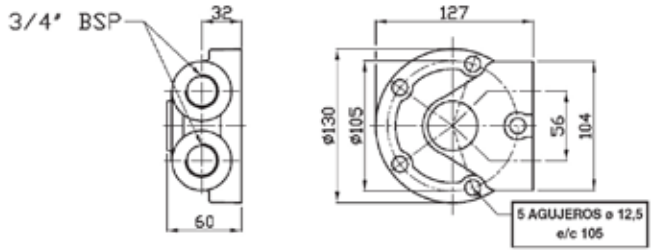


IAM- 6000-6500-6800-7600-8000 H8

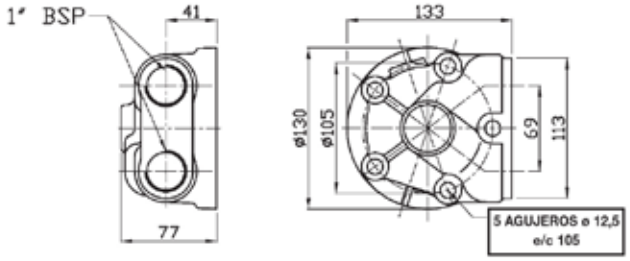


Opciones de Distribuidores BSP

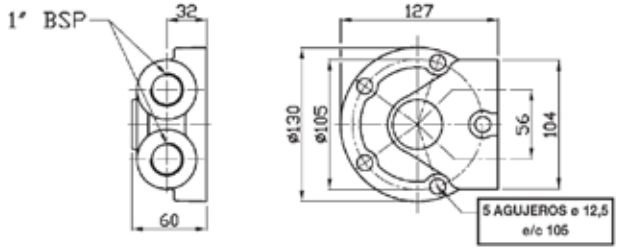
D31



D31

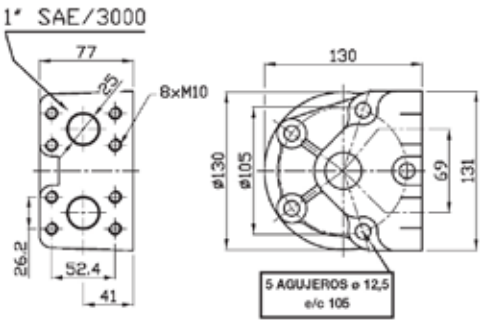


D31

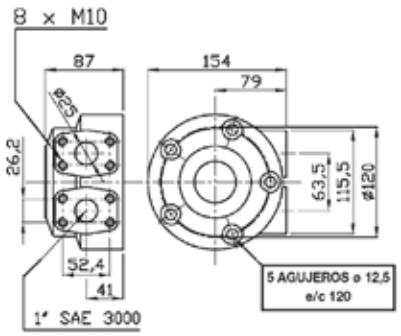


Opciones de Distribuidores SAE

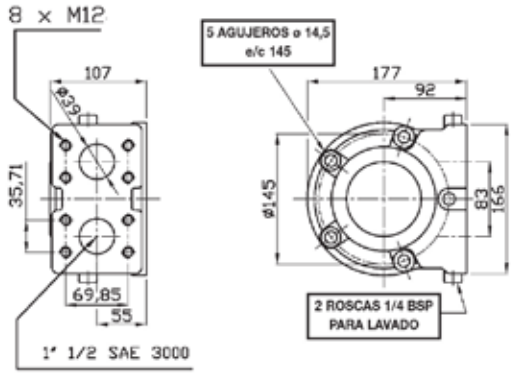
D47



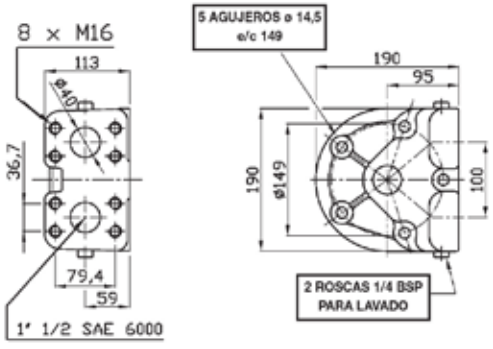
D55



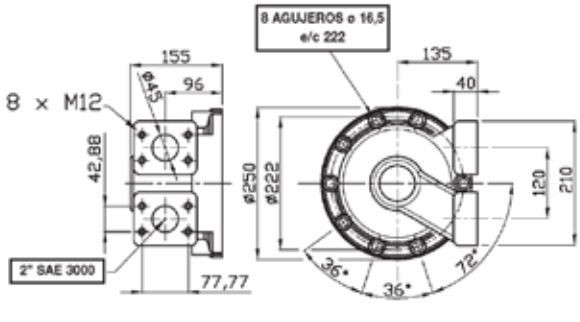
D75



D90



D200



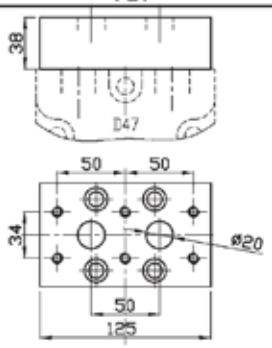
Distribuidores intercambiables Calzoni

Dimensiones

Tabla de acoplamientos correspondiente a los motores NHM Intermot

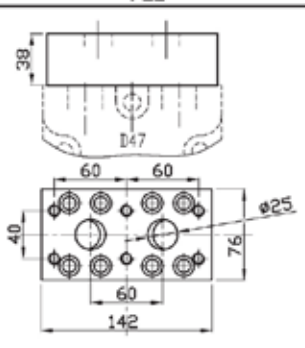
Código Acoplamiento	Dimensional	Norma	China Intermot	Italy Intermot
SB1	26x32 - 06 estrias	UNI 221/DIN5463	NHM2	IAM80 a 195 H1
SB2	32x38 - 08 estrias	UNI 221/DIN5463	NHM3	IAM200 a 300 H1 IAM200 a 350 H2 IAM190/C H2
SB3	36x42 - 08 estrias	UNI 221/DIN5463	NHM6-N	IAM400 a 600 H2 IAM400 a 700 H3
SB4	46x50 - 08 estrias	UNI 220/DIN5462	NHM11	IAM800 H3 IAM800/N H3 IAM H4
SB5	46x54 - 08 estrias	UNI 221/DIN5463	NHM6-N	IAM450C H3 IAM H4
SB6	62x72 - 08 estrias	UNI 221/DIN5463	NHM16-SL	IAM H5 IAM1200C a 1500C H5
SB7	14T.6/12	BS3550*	XXX	IAM H5 IAM1000/B60 a 1600/B100
SB8	72x82 - 16 estrias	UNI 222	XXX	IAM1600/C a 2200/C H5
SB9	82x92 - 10 estrias	UNI 221/DIN5463	NHM31	IAM H6---IAM H6/C IAM2200/B125 a 3000/B200 H6
SB10	20T6/12	BS3550*	XXX	IAM H6, H6/C, H7, H8 IAM2200/B125 a 3000/B200 H6
SB11	102x112 - 10 estrias	UNI 222	NHM70 a 2	IAM H7/C
SB12	112x125 - 10 estrias	UNI 222	XXX	IAM H8/C
SB14	28x32 - 06 estrias	UNI 221/DIN5463	NHM2-SL e NHM3-SL	IAM H1/GM1 E IAM H1/BH
SB15	42x48 - 08 estrias	UNI 222	XXX	IAM300/C H2
SB16	52x60 - 08 estrias	UNI 222	NHM6-N	IAM700/C, 800/C H4
SB17	56x65 - 08 estrias	UNI 221/DIN5463	NHM11-SL3 SM4	IAM H5/GM5 E IAM H5/S

FL1



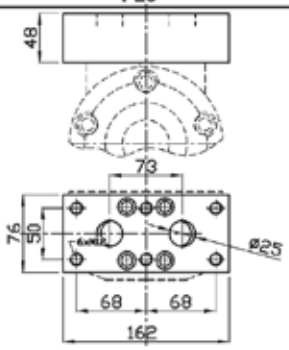
Bloque de conexión,
fitting D47 distribuidor,
para motor MR 160/190/250/300

FL2



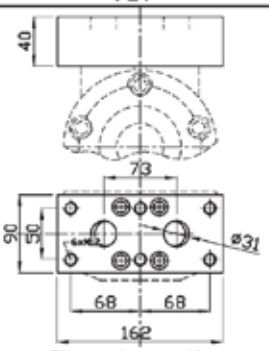
Bloque de conexión,
fitting D47 distribuidor, para motor
MR 350/450/500/600/700/800

FL3



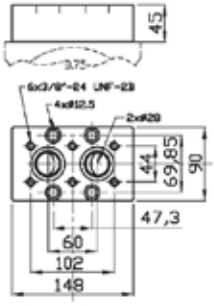
Bloque de conexión,
fitting D55 distribuidor, para motor
MR 1100/1400/1600/1800/2100

FL4



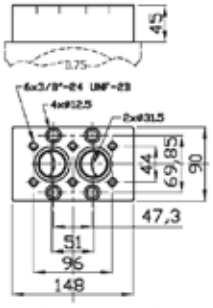
Bloque de conexión,
fitting D75 distribuidor, para motor
MR 1100/1400/1600/1800/2100

FL5



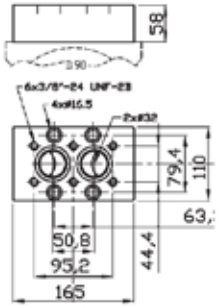
S03 plate for D75

FL6



S04 plate for D75

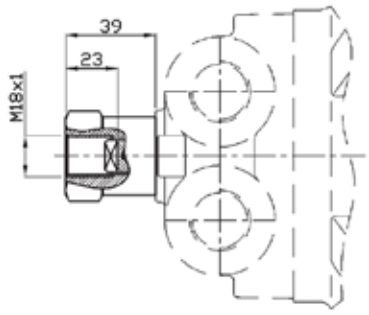
FL7



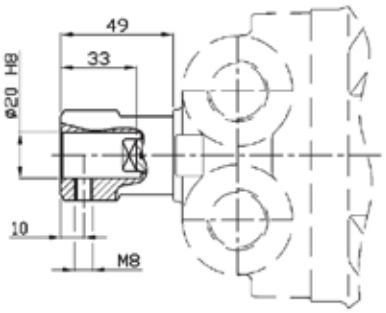
S04 plate for D90

Tacómetros para series IAM e IAC

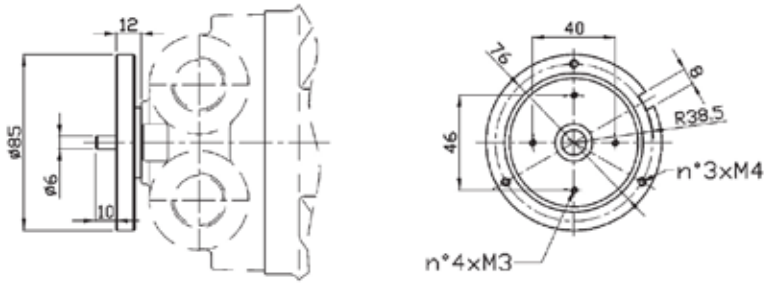
TA



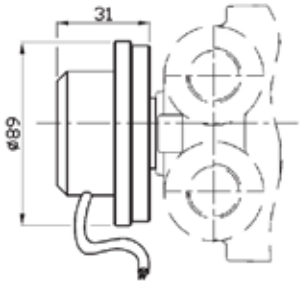
TB



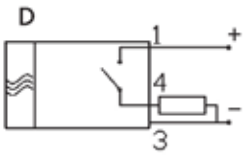
EST



EST. 30



Operating parameters	E-...../3
Power supply (VDC)	10-30
Switching current (mA)	150
Frecuency (Hz) 100rpm	50
Impulse/rpm	30
Operating temp. (°C)	-24/+70
Protection degree	IP67
Output	NPN
Motor type	All types

MODEL	Output	Fig.
E-..../.AP/....	PNP	D

MODEL	ø 5
Torque	1 Nm