

GM₁



			100	130	150	175	200*	220	250*	300*	320		
Displacement Cilindrata	[cc/rev]		99	129	154	172	201	221	243	290	314		
Bore <i>Alesaggio</i>	[mm]		28	32	35	37	40	42	44	48	50		
Stroke Corsa	[mm]		32	32	32	32	32	32	32	32	32		
Specific torque Coppia specifica	[Nm/bar]		1.54	2.05	2.45	2.68	3.14	3.50	3.80	4.52	4.90		
Continuous pressure ⁽¹⁾ Pressione in continuo ⁽¹⁾	[bar]		250	250	250	250	250	250	250	250	250		
Peak pressure Pressione di picco	[bar]		425	400	400	375	350	350	350	300	280		
Peak power (2) Potenza di picco (2)	[kW]		48	48	48	48	48	48	48	48	48		
Continuous speed (3) Velocità in continuo (3)	[rpm]		550	550	550	550	550	550	450	350	350		
Maximum speed <i>Velocità massima</i>	[rpm]		1000	1000	1000	900	800	700	700	650	600		
Approximate weight Peso approssimativo	[kg]	30	unit <i>unità</i>			-	oil capa cità olio	•	e		[1]	1	
Maximum casing pressure	[bar] -	1	continu continu			Admis	sible te	mperat	tures		[°C]	-20	minimum <i>minimo</i>
Pressione massima in carcassa	[bar] -	5	peak <i>picco</i>	peak Temperature ammissihili					+8		maximum <i>massimo</i>		

⁽¹⁾ Continuous or average working pressure should be chosen considering the bearing lifetime. For lifetime calculation of the motor bearings, please contact the SAI Technical Department.

⁽³⁾ Per velocità in continuo maggiori contattare l'Ufficio Tecnico SAI.

INSTALLATION NOTES								
Bolt torque setting	[Nm]	116,0÷143,0 coarse 121,0÷150,0	fine	Suggested bolt type	M12	12.0		
Coppia serraggio viti	נוזווון	grosso 121,0+130,0	fine	Viti suggerite	IMIZ	12.9		
	<u> </u>	<u> </u>				•		

^{*} Preferred type / * Tipo preferito

⁽¹⁾ La pressione continua o media di lavoro va determinata considerando la vita dei cuscinetti. Per un calcolo di vita dei cuscinetti del motore contattare l'Ufficio Tecnico SAI.

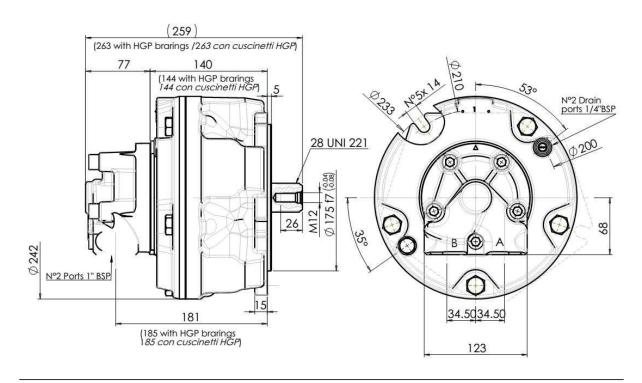
⁽²⁾ For higher peak power please contact the SAI Technical Department.

⁽²⁾ Per potenze di picco maggiori contattare l'Ufficio Tecnico SAI.

⁽³⁾ For higher continuous speed please contact the SAI Technical Department.



DIMENSIONAL DRAWINGS DISEGNI D'INGOMBRO



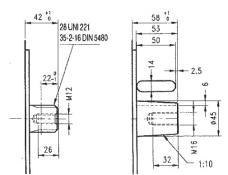
SHAFT OPTIONS OPZIONI ALBERO

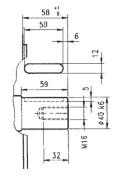
Splined Calettato 28 UNI 221 1* Tapered Conico 2
Splined 35-2-16 7
Calettato DIN5480 7

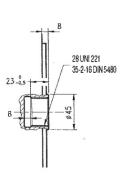
ed 2 Cylindrical 8

Internally splined 35-2-16 Calettato interno DIN5480 9*

Internally splined 28 UNI Calettato interno 221







POWER THROUGH EFFICIENCY

^{*} Preferred type / * Tipo preferito



GM2



PERFORMANCES TABLE TABELLA DELLE PERFORMANCE

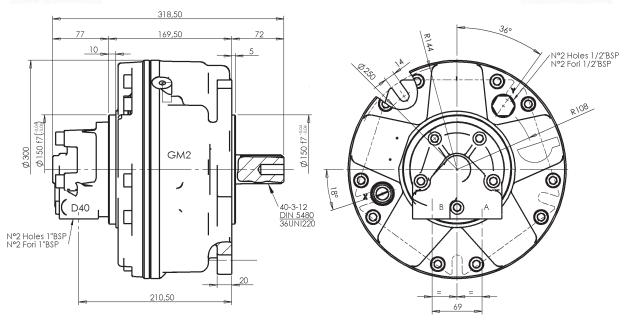
GM2		200	250 🖈	300	350★	420★	500常	600≉	630
Displacement / Cilindrata	cm ³ /rev	192	251	304	347	425	493	565	623
Bore / Alesaggio	mm	35	40	44	47	52	56	60	63
Stroke / Corsa	mm	40	40	40	40	40	40	40	40
Specific torque / Coppia spec.	Nm/bar	3,00	3,92	4,75	5,42	6,63	7,69	8,83	9,73
Cont. Pressure / Press. Cont.	bar	250	250	250	250	250	250	250	250
Peak pressure / Press. Picco	bar	425	425	400	375	350	350	300	280
Cont. speed / Velocità Cont.	rpm	550	550	500	500	450	450	450	400
Max. speed / Velocità Max	rpm	800	800	750	750	750	700	700	650
Peak power / Potenza picco	kW	59	59	59	59	59	59	59	59

Approximative mass / Massa approssimativa		51		_
Motor casing oil capacity / Capacità olio corpo motore	I	2		
Managina and Paragina and in		5	peak picco	La pressione continua o media di lavoro va determinata in funzione della vita del motore (vita dei cuscinetti).
Max casing pressure / Pressiona max. in carcassa	bar -	1	continuous	Continuous or avarage working pressure should be chosen in function of the required service lifetime (bearing lifetime).

^{★=} Preferred motor type / Morote preferito



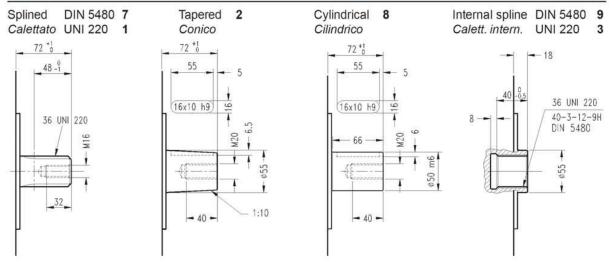
DIMENSIONS



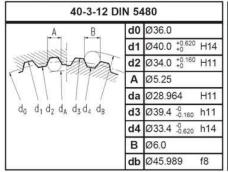
Flange and shaft dimensions are the same as for M3 and P3 series motors.

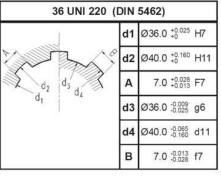
Le dimensioni della flangiatura e degli alberi sono come nelle serie M3 e P3.

SHAFTS ALBERI



SPLINE DATA - CALETTATURE





90 40 40 40 40 40-3-12 DIN 5480 36 UNI 220

ADAPTORS

109957.5







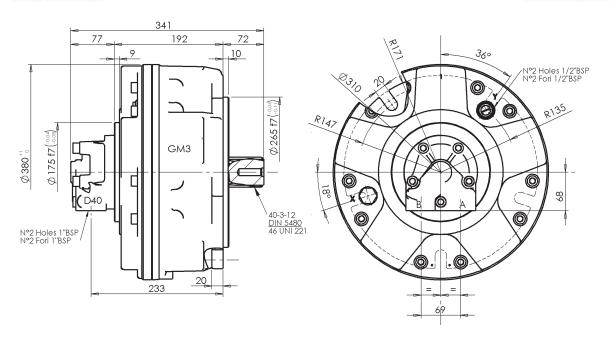
PERFORMANCES TABLE TABELLA DELLE PERFORMANCE

GM3		350★	425	500	600☆	700☆	800	900	1000
Displacement / Cilindrata	cm ³ /rev	352	426	486	595	690	792	873	987
Bore / Alesaggio	mm	40	44	47	52	56	60	63	67
Stroke / Corsa	mm	56	56	56	56	56	56	56	56
Specific torque / Coppia spec.	Nm/bar	5,49	6,64	7,58	9,28	10,80	12,40	13,60	15,40
Cont. Pressure / Press. Cont.	bar	250	250	250	250	250	250	250	250
Peak pressure / Press. Picco	bar	450	425	425	400	350	350	350	280
Cont. speed / Velocità Cont.	rpm	525	500	450	450	400	400	350	300
Max. speed / Velocità Max	rpm	700	650	600	575	500	500	400	350
Peak power / Potenza picco	kW	80	80	80	80	80	80	80	80

Approximative mass / Massa approssimativa	kg	86		_	
Motor casing oil capacity / Capacità olio corpo motore	1	4,5			
		5	peak picco	La pressione continua o media di lavoro va determinata in funzione della vita del motore (vita dei cuscinetti).	
Max casing pressure / Pressiona max. in carcassa	bar	1	continuous	Continuous or avarage working pressure should be chosen in function of the required service lifetime (bearing lifetime).	

★= Preferred motor type / Morote preferito

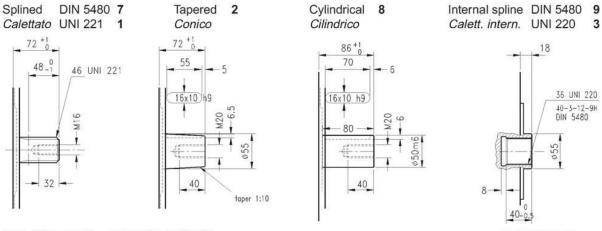
DIMENSIONS DIMENSIONI



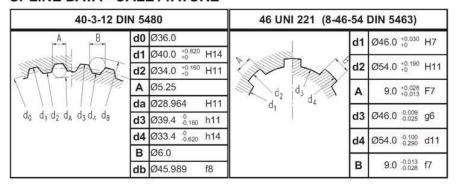
Available also GM3A complitely interch. to M3 till cc. 800 - not available with splined shaft 36 UNI 221

Disponibile anche GM3A completamente intercambiabile con M3 fino a cc. 800 - non disponibile con albero calettato 36 UNI 221 ALBERI

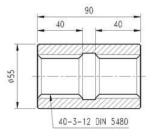
SHAFTS



SPLINE DATA - CALETTATURE



ADAPTORS MANICOTTI



109958.5



GM4



PERFORMANCES TABLE TABELLA DELLE PERFORMANCE

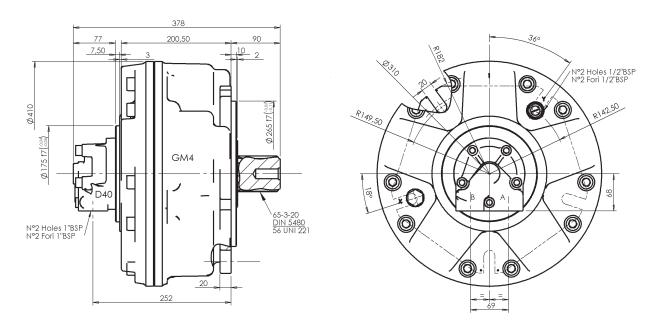
GM4		400	500	600	800☆	900	1000☆	1100	1250	1300
Displacement / Cilindrata	cm ³ /rev	402	503	616	793	904	1022	1116	1247	1316
Bore / Alesaggio	mm	42	47	52	59	63	67	70	74	76
Stroke / Corsa	mm	58	58	58	58	58	58	58	58	58
Specific torque / Coppia spec.	Nm/bar	6,27	7,85	9,61	12,40	14,10	16,00	17,40	19,50	20,50
Cont. Pressure / Press. Cont.	bar	250	250	250	250	250	250	250	250	250
Peak pressure / Press. Picco	bar	450	450	400	400	375	350	350	300	280
Cont. speed / Velocità Cont.	rpm	450	425	400	350	325	300	275	250	225
Max. speed / Velocità Max	rpm	600	600	550	550	450	400	400	400	350
Peak power / Potenza picco	kW	100	100	100	100	100	100	100	100	100

Approximative mass / Massa approssimativa	kg	100		_
Motor casing oil capacity / Capacità olio corpo motore	I	6,5		_
		5	peak picco	La pressione continua o media di lavoro va determinata in funzione della vita del motore (vita dei cuscinetti).
Max casing pressure / Pressiona max. in carcassa	bar	1	continuous	Continuous or avarage working pressure should be chosen in function of the required service lifetime (bearing lifetime).

★= Preferred motor type / Morote preferito



DIMENSIONS DIMENSIONI



Flange and shaft dimensions are as in M5 series motors

Le dimensioni della flangiatura e degli alberi sono come nella serie M5.

