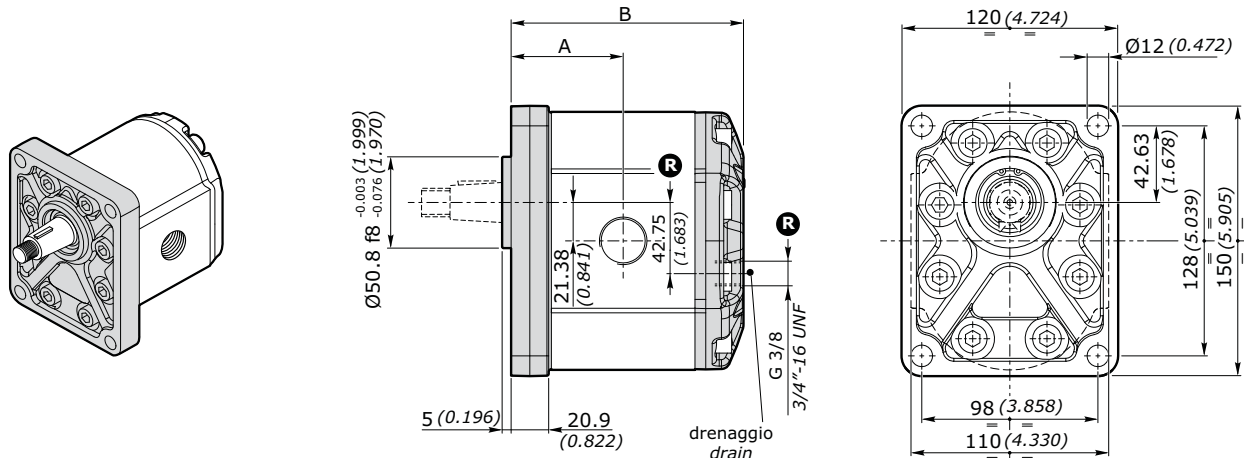


**MOTORI AD INGRANAGGI GRUPPO 3GM**  
**GEAR MOTORS GROUP 3GM**
**FLANGIA EUROPEA EUR EUROPEAN FLANGE**
**FLANGIA E COPERCHIO IN GHISA - CAST IRON FLANGE AND COVER**

GRUPPO GROUP 3GM	CILINDRATA DISPLACEMENT		PRESSIONE MAX - MAX PRESSURE				VELOCITÀ MAX MAX SPEED	PORTATA MAX MAX FLOW		VELOCITÀ MIN MIN SPEED	PORTATA MIN MIN FLOW		RENDIMENTO VOLUMETRICO MIN. MIN. VOLUMETRIC EFFICIENCY
	cm <sup>3</sup> /giro	in <sup>3</sup> /rev	P1		P2		giri/min - rpm	l/min	Gal/min	giri/min - rpm	l/min	Gal/min	%
			bar	psi	bar	psi							
<b>3GM 190</b>	19.3	1.2	250	3625	270	3915	3500	67.6	17.84	700	12.8	3.39	95*
<b>3GM 230</b>	23.0	1.4	240	3480	260	3770	3500	80.3	21.22	700	15.5	4.03	95*
<b>3GM 300</b>	30.2	1.8	220	3190	240	3480	3300	99.7	26.33	700	20.1	5.31	95*
<b>3GM 340</b>	33.8	2.1	220	3190	230	3335	3300	111.6	29.49	700	22.5	5.94	95*
<b>3GM 370</b>	37.5	2.3	210	3045	230	3335	3300	123.6	32.66	700	24.9	6.58	95*
<b>3GM 440</b>	44.6	2.7	200	2900	220	3190	3000	133.8	35.35	700	29.7	7.84	95*
<b>3GM 530</b>	53.0	3.2	200	2900	210	3045	3000	159.1	42.04	700	35.3	9.32	95*
<b>3GM 620</b>	62.7	3.8	180	2610	190	2755	2500	156.8	41.41	700	41.7	11.01	95*
<b>3GM 700</b>	70.5	4.3	180	2610	200	2900	2500	176.3	46.58	700	46.9	12.39	95*
<b>3GM 770</b>	77.2	4.7	170	2465	190	2755	2200	169.8	44.84	700	51.3	13.56	95*

**DIMENSIONI • DIMENSIONS**


**R** Solo per motori reversibili - Only for reversible motors

GRUPPO - GROUP 3	A		B		MASSA - MASS	
	mm	inch	mm	inch	kg	lbs
<b>3GM 190</b>	62.4	2.456	128.3	5.051	7.67	16.91
<b>3GM 230</b>	63.9	2.515	131.3	5.169	7.81	17.21
<b>3GM 300</b>	66.9	2.633	137.3	5.405	8.09	17.82
<b>3GM 340</b>	68.4	2.692	140.3	5.523	8.22	18.12
<b>3GM 370</b>	69.9	2.751	143.3	5.641	8.36	18.43
<b>3GM 440</b>	72.9	2.870	149.3	5.877	8.64	19.04
<b>3GM 530</b>	76.4	3.007	156.3	6.153	8.96	19.75
<b>3GM 620</b>	80.4	3.165	164.3	6.468	9.33	20.56
<b>3GM 700</b>	86.9	3.421	170.8	6.724	9.63	21.22
<b>3GM 770</b>	92.4	3.637	176.3	6.940	9.88	21.77

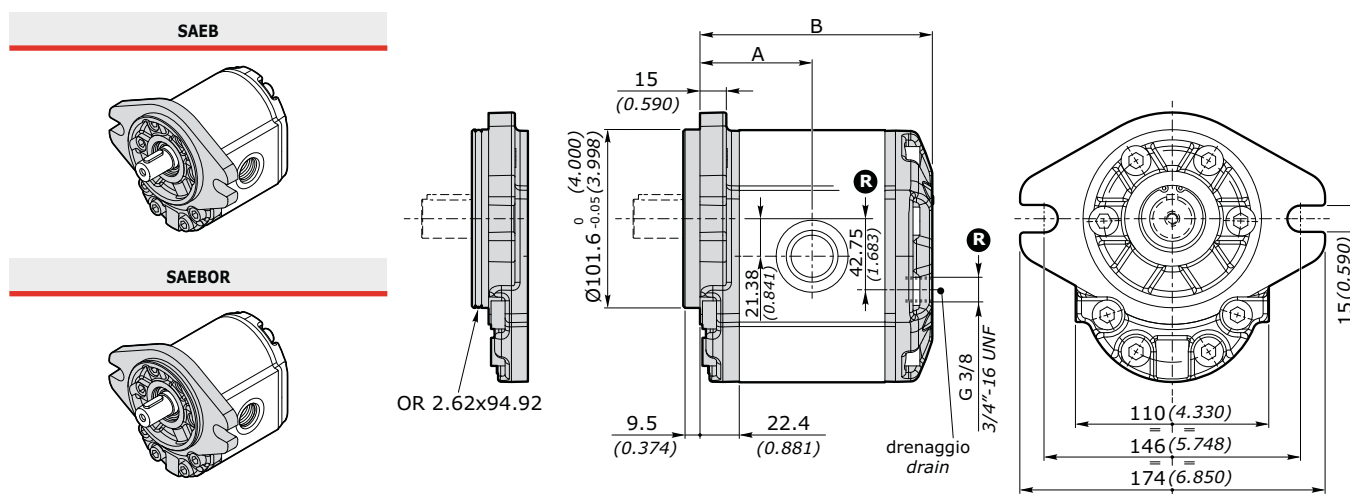
**MOTORI AD INGRANAGGI GRUPPO 3GM**  
**GEAR MOTORS GROUP 3GM**

**FLANGIA SAE SAEB-SAEBOR SAE FLANGE**

**FLANGIA E COPERCHIO IN GHISA - CAST IRON FLANGE AND COVER**

GRUPPO GROUP 3GM	CILINDRATA DISPLACEMENT		PRESSIONE MAX - MAX PRESSURE				VELOCITÀ MAX MAX SPEED	PORTATA MAX MAX FLOW		VELOCITÀ MIN MIN SPEED	PORTATA MIN MIN FLOW		RENDIMENTO VOLUMETRICO MIN. MIN. VOLUMETRIC EFFICIENCY
	cm <sup>3</sup> /giro	in <sup>3</sup> /rev	P1		P2		giri/min - rpm	l/min	Gal/min	giri/min - rpm	l/min	Gal/min	%
			bar	psi	bar	psi							
<b>3GM 190</b>	19.3	1.2	250	3625	270	3915	3500	67.6	17.84	700	12.8	3.39	95*
<b>3GM 230</b>	23.0	1.4	240	3480	260	3770	3500	80.3	21.22	700	15.5	4.03	95*
<b>3GM 300</b>	30.2	1.8	220	3190	240	3480	3300	99.7	26.33	700	20.1	5.31	95*
<b>3GM 340</b>	33.8	2.1	220	3190	230	3335	3300	111.6	29.49	700	22.5	5.94	95*
<b>3GM 370</b>	37.5	2.3	210	3045	230	3335	3300	123.6	32.66	700	24.9	6.58	95*
<b>3GM 440</b>	44.6	2.7	200	2900	220	3190	3000	133.8	35.35	700	29.7	7.84	95*
<b>3GM 530</b>	53.0	3.2	200	2900	210	3045	3000	159.1	42.04	700	35.3	9.32	95*
<b>3GM 620</b>	62.7	3.8	180	2610	190	2755	2500	156.8	41.41	700	41.7	11.01	95*
<b>3GM 700</b>	70.5	4.3	180	2610	200	2900	2500	176.3	46.58	700	46.9	12.39	95*
<b>3GM 770</b>	77.2	4.7	170	2465	190	2755	2200	169.8	44.84	700	51.3	13.56	95*

**DIMENSIONI • DIMENSIONS**



**R** Solo per motori reversibili - Only for reversible motors

GRUPPO - GROUP 3	A		B		MASSA - MASS	
	mm	inch	mm	inch	kg	lbs
<b>3GM 190</b>	62.4	2.456	128.3	5.051	7.67	16.91
<b>3GM 230</b>	63.9	2.515	131.3	5.169	7.81	17.21
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<b>3GM 370</b>	69.9	2.751	143.3	5.641	8.36	18.43
<b>3GM 440</b>	72.9	2.870	149.3	5.877	8.64	19.04
<b>3GM 530</b>	76.4	3.007	156.3	6.153	8.96	19.75
<b>3GM 620</b>	80.4	3.165	164.3	6.468	9.33	20.56
<b>3GM 700</b>	86.9	3.421	170.8	6.724	9.63	21.22
<b>3GM 770</b>	92.4	3.637	176.3	6.940	9.88	21.77

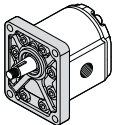
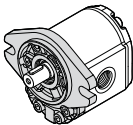
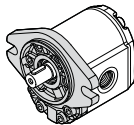
**MOTORI AD INGRANAGGI GRUPPO 3GM**  
**GEAR MOTORS GROUP 3GM**
**CODICE ORDINAZIONE • ORDER CODE**
**3GM - G - 340 - D - EUR - H - N - 10 - 0 - G**

SIGLA - CODE	TIPO - TYPE	DESCRIZIONE - DESCRIPTION	PAGINA - PAGE
<b>3GM</b>	Tipo motore <i>Motor type</i>	Motore - gruppo 3 <i>Motor - group 3</i>	91
<b>G</b>	Materiale flangia e coperchio <i>Flange and cover material</i>	<b>G</b> = Ghisa / <i>Cast iron</i>	
<b>340</b>	Cilindrata <i>Displacement</i>	Cilindrata = 23 cm <sup>3</sup> /g <i>Displacement = 1.40 in<sup>3</sup>/rev</i>	91
<b>D</b>	Tipo rotazione <i>Rotation type</i>	<b>D</b> = Rotazione destra / <i>Clockwise rotation</i> <b>S</b> = Rotazione sinistra / <i>Anticlockwise rotation</i>	93
<b>EUR</b>	Tipo Flangia <i>Flange type</i>	Flangia standard europea <i>European standard flange</i>	
<b>H</b>	Tipo anello di tenuta <i>Seal ring type</i>	Vedi tabella compatibilità <i>See compatibility table</i>	143
<b>N</b>	Tipo guarnizione <i>Gasket type</i>	<b>N</b> = NBR <b>V</b> = Viton	
<b>10</b>	Tipo Albero <i>Shaft type</i>	Vedi tabella compatibilità <i>See compatibility table</i>	144
<b>0</b>	Posizione connessione <i>Connection position</i>	Vedi tabella compatibilità <i>See compatibility table</i>	146
<b>G</b>	Tipo connessione <i>Connection type</i>	Vedi tabella compatibilità <i>See compatibility table</i>	



**MOTORI AD INGRANAGGI GRUPPO 3GM**  
**GEAR MOTORS GROUP 3GM**

**TIPOLOGIA FLANGIA • FLANGE TYPE**

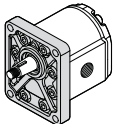
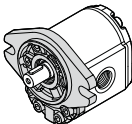
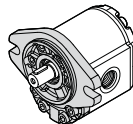
3GM	EUR	SAEB	SAEBOR
			
<b>A</b> alluminio aluminium	non disponibile not available	non disponibile not available	non disponibile not available
<b>G</b> ghisa cast iron	◆	◆	◆

◆ = Combinazione standard - *Standard combination*

**ANELLO DI TENUTA • SEAL RING**

SIGLA - CODE	TIPO - TYPE	DESCRIZIONE - DESCRIPTION
<b>H</b>	Anello di tenuta fino a <b>8</b> bar <i>Sealing ring up to 8 bar</i>	Per basse pressioni ( con distanziali di rinforzo) <i>For low pressure (with stiffening seal)</i>
<b>K</b>	Anello di tenuta fino a <b>30</b> bar <i>Sealing ring up to 30 bar</i>	Per alte pressioni <i>For high pressure</i>
<b>W</b>	Anello di tenuta fino a <b>100</b> bar <i>Sealing ring up to 100 bar</i>	Per altissime pressioni <i>For very high pressure</i>

**COMBINAZIONE FLANGIA - ANELLO DI TENUTA - GUARNIZIONE • FLANGE - SEAL RING - GASKET COMBINATION**

3GM	EUR			SAEB			SAEBOR		
									
	Anello - seal ring			Anello - seal ring			Anello - seal ring		
	H	K	W	H	K	W	H	K	W
NBR <b>N</b>	◆	◆	◆	◆	◆	◆	◆	◆	◆
Viton <b>V</b>	●	●	●	●	●	●	●	●	●

◆ = Combinazione standard - *Standard combination*

● = Combinazione disponibile - *Available combination*

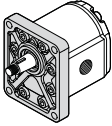
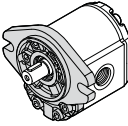
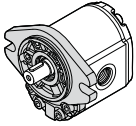
esempio • *example:* **3GM - G - 340 - D - EUR - H - N - 10 - 0 - G**

**EUR** = flangia europea std / *Std european flange*

**H** = Anello tenuta fino a 8 bar / *Seal ring up to 8 bar*

**N** = guarnizione in NBR / *NBR o-ring*

**MOTORI AD INGRANAGGI GRUPPO 3GM**  
**GEAR MOTORS GROUP 3GM**
**COMBINAZIONE ALBERO - FLANGIA • SHAFT - FLANGE COMBINATION**

<b>3GM</b>	<b>EUR</b>	<b>SAEB</b>	<b>SAEBOR</b>
			
<b>10</b> Conico 1:8 <i>Tapered 1:8</i>	◆	●	●
<b>13</b> Cilindrico SAEB <i>SAEB Parallel shaft</i>	●	◆	◆
<b>14</b> Scanalato SAEB 13 denti (38.2) <i>SAEB 13T splined (38.2)</i>	●	◆	◆
<b>14R</b> Scanalato SAEB 13 denti (44.7) <i>SAEB 13T splined (44.7)</i>	●	●	●

 ◆ = Combinazione standard - *Standard combination*

 ● = Combinazione disponibile - *Available combination*

**MOTORI AD INGRANAGGI GRUPPO 3GM**  
**GEAR MOTORS GROUP 3GM**

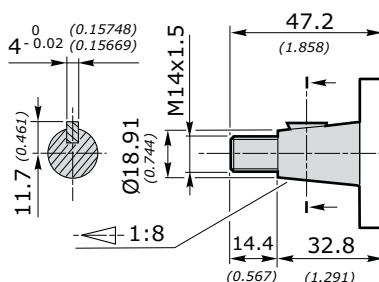
**3GM**

DIMENSIONI ALBERO - SHAFT DIMENSIONS

**10**

Conico 1:8  
Tapered 1:8

Coppia 240 Nm  
Torque 178 ft-lbs

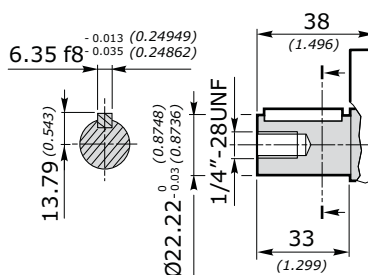


Disponibile per - available for: **EUR - SAEB - SAEBOR**

**13**

Cilindrico SAEB  
SAEB Parallel  
shaft

Coppia 200 Nm  
Torque 148 ft-lbs

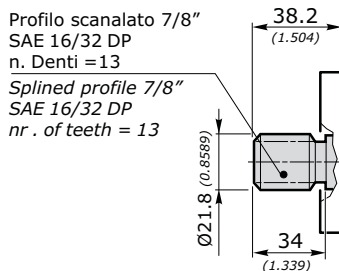


Disponibile per - available for: **EUR - SAEB - SAEBOR**

**14**

Scanalato SAEB  
13 denti (38.2)  
SAEB 13T  
splined (38.2)

Coppia 270 Nm  
Torque 200 ft-lbs

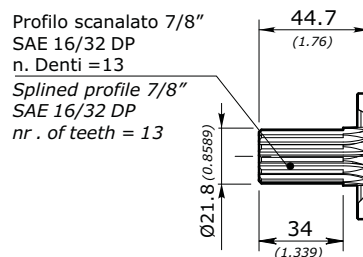


Disponibile per - available for: **EUR - SAEB - SAEBOR**

**14R**

Scanalato SAEB  
13 denti (44.7)  
SAEB 13T  
splined (44.7)

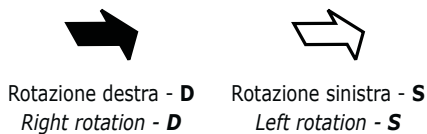
Coppia 270 Nm  
Torque 200 ft-lbs



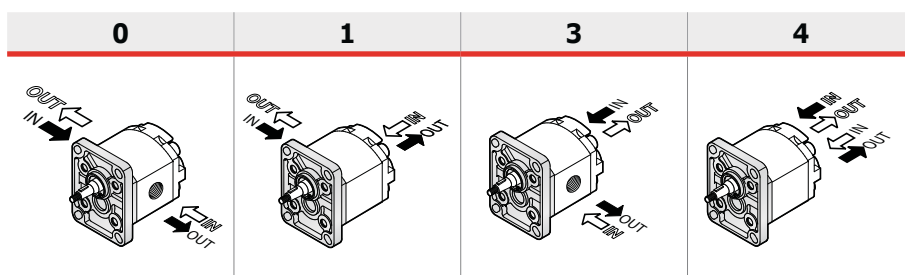
Disponibile per - available for: **EUR - SAEB - SAEBOR**

**MOTORI AD INGRANAGGI GRUPPO 3GM**  
**GEAR MOTORS GROUP 3GM**

**POSIZIONE CONNESSIONE PER MOTORI (D-S) • CONNECTION POSITION FOR (D-S) MOTORS**

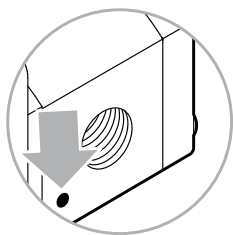


**POSIZIONE CONNESSIONE PER MOTORI (R) • CONNECTION POSITION FOR (R) MOTORS**



**TIPO CONNESSIONE PER MOTORI D-S • CONNECTION TYPE FOR D-S MOTORS**

Le connessioni rappresentate corrispondono alle versioni standard; per connessioni differenti, contattare il nostro Ufficio Commerciale. *The connections type shown correspond to standard configuration; for different applications contact our Commercial Dept.*



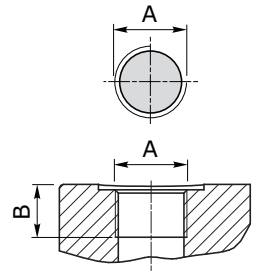




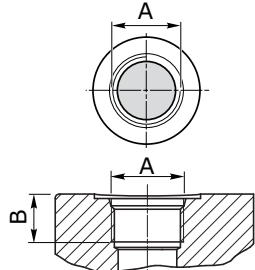
Il segno sul corpo indica il lato scarico per i motori  
*The sign on the body identify the outlet side for the motors*

**IN = INGRESSO - INLET**  
**OUT = SCARICO - OUTLET**

<b>3GM</b>		POSIZIONE CONNESSIONE - CONNECTION POSITION			
		<b>0</b>	<b>1</b>	<b>3</b>	<b>4</b>
GAS	<b>G</b>	◇	◇	◇	◇
UNF	<b>W</b>	◇	◇	◇	◇
FLANGIATE FLANGED	<b>T</b>	◇			
	<b>N</b>	◇			
	<b>F</b>	◇			

**MOTORI AD INGRANAGGI GRUPPO 3GM**  
**GEAR MOTORS GROUP 3GM**

GAS	UNI ISO 228/1	SIGLA CODE	CIL. DISPL.	SCARICO - OUTLET OUT			INGRESSO - INLET IN		
				A	B		A	B	
		<b>G</b>	190	G 1"	20 [mm] 0.788 [inch]	70 [Nm] 620 [in.lbs]	G 3/4"	17 [mm] 0.670 [in.lbs]	60 [mm] 531 [in.lbs]
			230						
			300						
			340						
			370						
			440						
			530						
			630						
			700						
			770						

UNF	ANSI/ASME B1.1	SIGLA CODE	CIL. DISPL.	SCARICO - OUTLET OUT			INGRESSO - INLET IN		
				A	B		A	B	
		<b>W</b>	190	SAE 16 1"5/16-12 UN	20 [mm] 0.788 [inch]	70 [Nm] 620 [in.lbs]	SAE 12 1"1/16-12 UN	20 [mm] 0.788 [inch]	60 [Nm] 531 [in.lbs]
			230						
			300						
			340						
			370						
			440						
			530						
			630						
			700						
			770						

**MOTORI AD INGRANAGGI GRUPPO 3GM**  
**GEAR MOTORS GROUP 3GM**

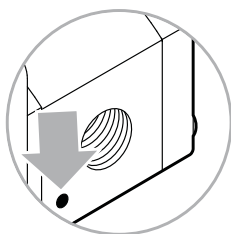
FLANGIATE FLANGED	ISO/R 262	SIGLA CODE	CIL. DISPL.	SCARICO - OUTLET OUT					INGRESSO - INLET IN						
				A	B	C	D		A	B	C	D			
		<b>T</b>	190												
			230												
			300												
			340												
			370	26 [mm]	55 [mm]	M8	16 [mm]	15 [Nm]	18 [mm]	55 [mm]	M8	16 [mm]	15 [Nm]		
			440	1.024 [inch]	2.167 [inch]		0.630 [inch]	133 [in.lbs]	0.709 [inch]	2.167 [inch]		0.630 [inch]	133 [in.lbs]		
			530												
			630												
			700												
			770												
		<b>N</b>	190												
			230												
			300												
			340												
			370	27 [mm]	51 [mm]	M10	15 [mm]	20 [Nm]	19 [mm]	40 [mm]	M8	15 [mm]	15 [Nm]		
			440	1.064 [inch]	2.009 [inch]		0.591 [inch]	177 [in.lbs]	0.748 [inch]	1.575 [inch]		0.591 [inch]	133 [in.lbs]		
			530												
			630												
			700												
			770												

FLANGIATE FLANGED	ISO/R 262	SIGLA CODE	CIL. DISPL.	SCARICO - OUTLET OUT					INGRESSO - INLET IN						
				A	B	C	D	E		A	B	C	D	E	
		<b>F</b>	190												
			230	27 [mm]	26.2 [mm]	52.4 [mm]	M8	15 [mm]	15 [Nm]						
			300	1.063 [inch]	1.031 [inch]	2.063 [inch]		0.591 [inch]	133 [in.lbs]						
			340												
			370												
			440	24 [mm]	26.2 [mm]	52.4 [mm]	M8	15 [mm]	15 [Nm]	24 [mm]	26.2 [mm]	52.4 [mm]	M8	15 [mm]	15 [Nm]
			530	0.945 [inch]	1.031 [inch]	2.063 [inch]		0.591 [inch]	133 [in.lbs]	0.945 [inch]	1.031 [inch]	2.063 [inch]		0.591 [inch]	133 [in.lbs]
			630	42 [mm]	69.8 [mm]	35.6 [mm]	M8	15 [mm]	15 [Nm]						
			700	1.654 [inch]	2.748 [inch]	1.402 [inch]		0.591 [inch]	133 [in.lbs]						
			770												

**MOTORI AD INGRANAGGI GRUPPO 3GM**  
**GEAR MOTORS GROUP 3GM**

**TIPO CONNESSIONE PER MOTORI (R) • CONNECTION TYPE FOR (R) MOTORS**

Le connessioni rappresentate corrispondono alle versioni standard; per connessioni differenti, contattare il nostro Ufficio Commerciale. *The connections type shown correspond to standard configuration; for different applications contact our Commercial Dept.*



L'eventuale segno sul corpo dei Motori REVERSIBILI non è da considerare.  
*Any sign on the body in REVERSIBLE Motors is not considered.*



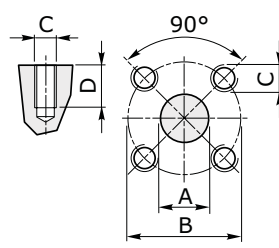
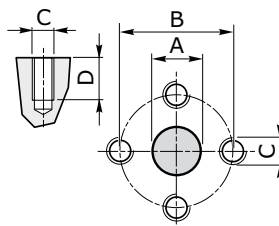
**IN = MANDATA - DELIVERY**  
**OUT = SCARICO - OUTLET**



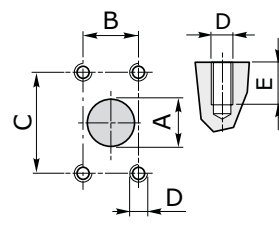
3GM		POSIZIONE CONNESSIONE - CONNECTION POSITION			
		0	1	3	4
GAS	<b>G</b>	◇	◇	◇	◇
UNF	<b>W</b>	◇	◇	◇	◇
FLANGIATE FLANGED	<b>T</b>	◇			
	<b>N</b>	◇			
	<b>F</b>	◇			

GAS	UNI ISO 228/1	SIGLA CODE	CIL. DISPL.	SCARICO - OUTLET OUT			INGRESSO - INLET IN		
				A	B	↻	A	B	↻
		<b>G</b>	190	G 1"	20 [mm] 0.788 [inch]	70 [Nm] 620 [in.lbs]	G 1"	20 [mm] 0.788 [inch]	70 [Nm] 620 [in.lbs]
			230						
			300						
			340						
			370						
			440						
			530						
			630						
			700						
			770						

UNF	ANSI/ASME B1.1	SIGLA CODE	CIL. DISPL.	SCARICO - OUTLET OUT			INGRESSO - INLET IN		
				A	B	↻	A	B	↻
		<b>W</b>	190	SAE 16 1"5/16-12 UN	20 [mm] 0.788 [inch]	70 [Nm] 620 [in.lbs]			
			230						
			300						
			340						
			370						
			440						
			530						
			630						
			700						
			770						

**MOTORI AD INGRANAGGI GRUPPO 3GM**  
**GEAR MOTORS GROUP 3GM**

FLANGIATE FLANGED	ISO/R 262	SIGLA CODE	CIL. DISPL.	SCARICO OUTLET OUT					INGRESSO - INLET IN						
				A	B	C	D		A	B	C	D			
		<b>T</b>	190												
			230												
			300												
			340												
			370	26	55	M8	16	15							
			440	1.024	2.167		0.630	133							
			530	[inch]	[inch]		[inch]	[in.lbs]							
			630												
			700												
			770												
		<b>N</b>	190												
			230												
			300												
			340												
			370	27	51	M10	15	20							
			440	1.064	2.009		0.591	177							
			530	[inch]	[inch]		[inch]	[in.lbs]							
			630												
			700												
			770												

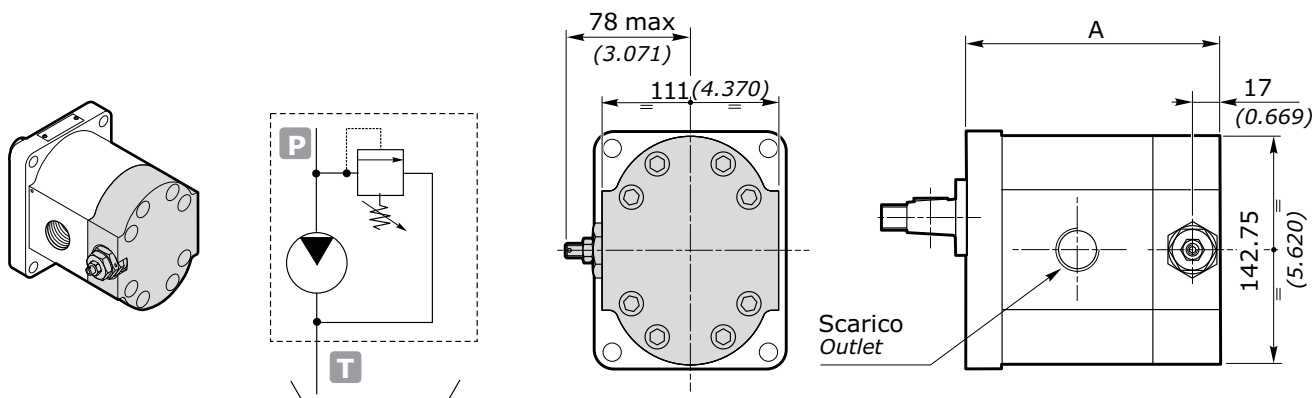
FLANGIATE FLANGED	ISO/R 262	SIGLA CODE	CIL. DISPL.	SCARICO OUTLET OUT					INGRESSO - INLET IN						
				A	B	C	D	E		A	B	C	D	E	
		<b>F</b>	190												
			230	27	26.2	52.4	M8	15	15						
			300	1.064	1.031	2.063		0.591	133						
			340	[inch]	[inch]	[inch]		[inch]	[in.lbs]						
			370												
			440												
			530	42	69.8	35.6	M8	15	15						
			630	1.654	2.748	1.402		0.591	133						
			700	[inch]	[inch]	[inch]		[inch]	[in.lbs]						
			770												

**MOTORI AD INGRANAGGI GRUPPO 3GM**  
**GEAR MOTORS GROUP 3GM**

**OPZIONI • OPTIONALS**

**VLPI**

VALVOLA LIMITATRICE DI PRESSIONE A SCARICO INTERNO  
PRESSURE RELIEF VALVE WITH INTERNAL EXHAUST



GRUPPO GROUP 3	A	
	EUR - SAEB - SAEBOR	
	mm	inch
<b>3GM 190</b>	146.30	5.759
<b>3GM 230</b>	149.30	5.877
<b>3GM 300</b>	155.30	6.114
<b>3GM 340</b>	158.30	6.232
<b>3GM 370</b>	161.30	6.350
<b>3GM 440</b>	167.30	6.586
<b>3GM 530</b>	174.30	6.862
<b>3GM 620</b>	182.30	7.177
<b>3GM 700</b>	188.30	7.413
<b>3GM 770</b>	194.30	7.649

La valvola limitatrice di pressione si applica sostituendo il coperchio posteriore (previsto solo scarico interno).  
Il corpo VLP è disponibile in alluminio.  
È rappresentato un motore con rotazione destra.

*The pressure relief valve can be applied by substituting the rear cover (only internal relief is set).  
VLP cover is available in aluminum.  
The showed pump is clockwise rotation.*

esempio • example: **3GM - A - 340 - D - EUR - H - N - 10 - 0 - G - VLPI N 120**

**VLPI** = Coperchio con VPL a scarico interno / Cover with VPL at internal exhaust

**N** = Tipo molla - vedi tabella / Spring type - see table

**120** = Taratura - vedi tabella / Setting - see table

TIPO - TYPE	CAMPI DI TARATURE - CALIBRATION FIELDS					
	molla bianca - white spring	<b>B</b>	molla nera - black spring	<b>N</b>	molla rossa - red spring	<b>R</b>
bar	30 ÷ 80		81 ÷ 200		201 ÷ 350	
psi	435 ÷ 1160		1175 ÷ 2900		2915 ÷ 5075	
STANDARD	70 bar (1015 psi)		150 bar (2175 psi)		250 bar (3625 psi)	

NOTA: In caso di omissione del valore di taratura, esso sarà inteso standard (vedi tabella).

NOTE: Without setting request, it will be considered standard (see table).