



This gas spring series includes the models compliant with automotive standards / Questa serie di cilindri include i modelli conformi agli standard automotive

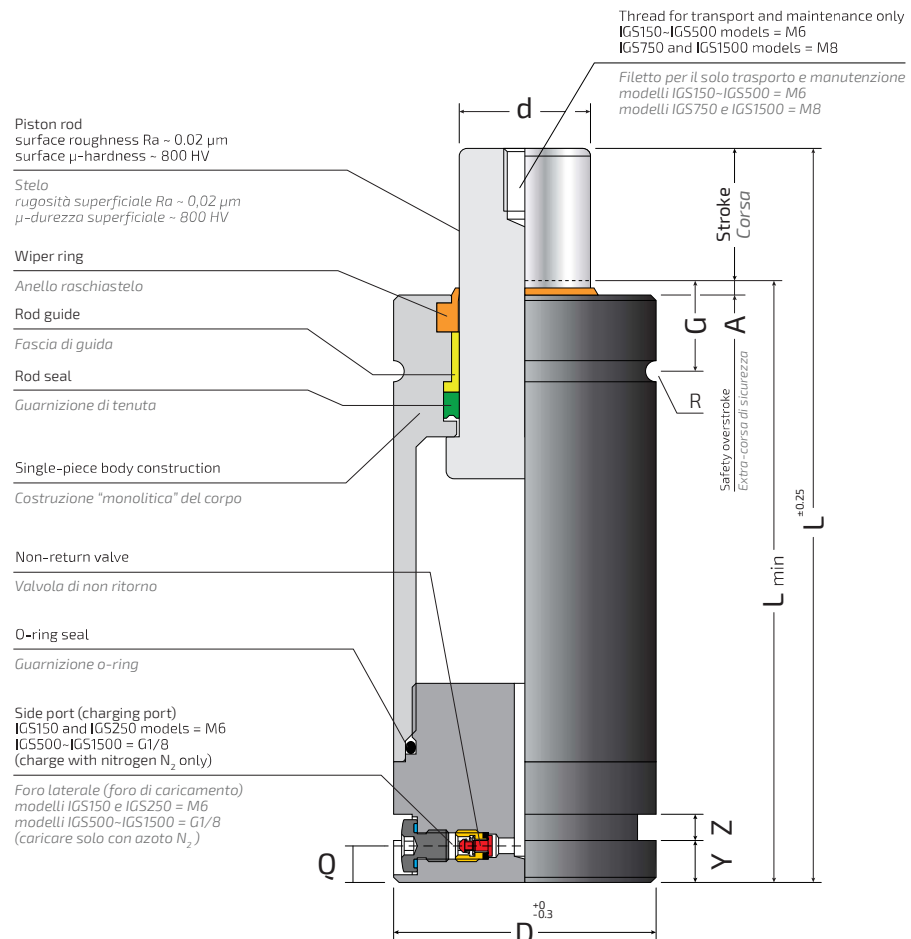
| | | | |
|--------------|---------------------|----------------|--------------|
| BMW | B2 4006 | Nissan | K 32 S |
| FCA | 075.90.55 | PSA | E24.54.815.G |
| Ford | W-DX35-6203 | Renault | EM24.54.700 |
| Mazda | PG23D | Suzuki | SES-K 5404e |
| MB | B8 3180 220 000 001 | VW | 39D 878 |



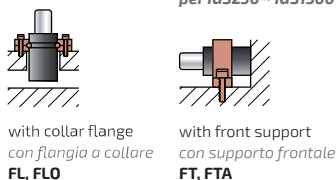
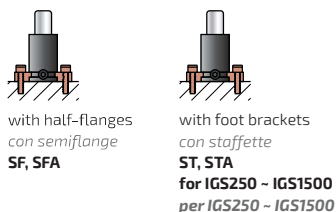
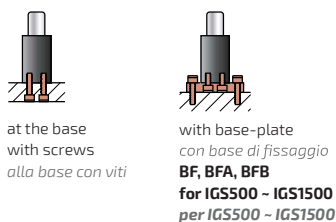
Technical notes / Note tecniche
Important use instructions in the dedicated catalogue section. *Importanti istruzioni d'uso nella relativa sezione sul catalogo.*

IGS series nitrogen gas springs feature standard dimensions and forces, as well as several fixing and linking possibilities. With the IGS series nitrogen gas springs, Bordignon now ensures a great interchangeability and a superior reliability. IGS series nitrogen gas springs are self-lubricated.

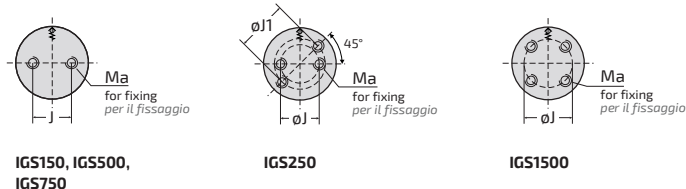
I cilindri all'azoto della serie IGS hanno dimensioni e forze standard, e svariate possibilità di fissaggio e collegamento a sistema. Con i cilindri all'azoto della serie IGS, ora Bordignon assicura un'intercambiabilità eccellente e un'affidabilità superiore. I cilindri all'azoto della serie IGS sono autolubrificati.



Fixing possibilities / Fissaggi possibili

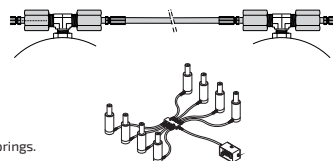


GAS SPRING BASE / BASE DEL CILINDRO



LINKING TO OPEN SYSTEM / COLLEGAMENTO A SISTEMA

| | IGS150-IGS250 (M6 side port / foro laterale M6) | | IGS500-IGS1500 (G1/8 side port / foro laterale G1/8) | | |
|--|--|------|---|-----|----|
| Hoses Tubi | ATM | ATNM | ATM | ATN | AT |
| Gas spring-hose fittings Raccordi cilindro-tubo | ARM | ARNM | ARM | ARN | AR |



ATTENTION! Follow the instructions in the "LINKED SYSTEM" section before connecting the gas springs. *ATTENZIONE!* Seguire le istruzioni nella sezione "LINKED SYSTEM" prima di collegare i cilindri.

SAFETY PROTECTIONS / PROTEZIONI DI SICUREZZA



| Model <i>Modello</i> | MAX Stroke <i>Corsa MAX</i> | | | D mm | d mm | G mm | A mm | R mm | Y mm | Z mm | Q mm | Ma | J mm | J1 mm | bar (MPa) | daN | daN | daN | Cycles per minute MAX <i>Cicli al minuto MAX</i> | Gas volume del gas <i>Litres</i> | Weight <i>Peso</i> kg | | | | | | | | | | | | | | | | |
|-------------------------|--------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-----------------|---------|----------|---------------|------|-----|-----|--|---|-----------------------------|------|---|---|---|------|-----------------------------------|----|----|---------------|-----|--|--|-----|-----|-------|------|
| | Lmin mm | L mm | L mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| IGS150-10 | 10 | 60 | 70 | 32 | 12 | 12.5 | 2 | 1 | 4 | 4 | 6 | M6 x 11 (2x) | 18 | - | 150 (15.0) | 170 | | | 215 | 300 | 0.009 | 0.30 | | | | | | | | | | | | | | | |
| 13 | 12.7 | 62.7 | 75.4 | | | | | | | | | | | | | | | | 220 | 235 | 0.010 | 0.32 | | | | | | | | | | | | | | | |
| 16 | 16 | 66 | 82 | | | | | | | | | | | | | | | | 220 | 190 | 0.012 | 0.33 | | | | | | | | | | | | | | | |
| 25 | 25 | 75 | 100 | | | | | | | | | | | | | | | | 225 | 120 | 0.017 | 0.36 | | | | | | | | | | | | | | | |
| 38 | 38.1 | 88.1 | 126.2 | | | | | | | | | | | | | | | | 230 | 80 | 0.024 | 0.39 | | | | | | | | | | | | | | | |
| 50 | 50 | 100 | 150 | | | | | | | | | | | | | | | | 230 | 60 | 0.030 | 0.44 | | | | | | | | | | | | | | | |
| 63 | 63.5 | 113.5 | 177 | | | | | | | | | | | | | | | | 230 | 50 | 0.037 | 0.48 | | | | | | | | | | | | | | | |
| 80 | 80 | 130 | 210 | | | | | | | | | | | | | | | | 235 | 40 | 0.046 | 0.54 | | | | | | | | | | | | | | | |
| 100 | 100 | 150 | 250 | | | | | | | | | | | | | | | | 235 | 30 | 0.057 | 0.60 | | | | | | | | | | | | | | | |
| 125 | 125 | 175 | 300 | | | | | | | | | | | | | | | | 235 | 25 | 0.070 | 0.70 | | | | | | | | | | | | | | | |
| IGS250-10 | 10 | 60 | 70 | | | | | | | | | | | | | | | | 38 | 15 | 12.5 | 2 | 1 | 4 | 4 | 6 | M6 x 9 (2x or 2x) (2x o 2x) | 18 | 25 | 150 (15.0) | 260 | | | 305 | 300 | 0.029 | 0.30 |
| 13 | 12.7 | 62.7 | 75.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 310 | 235 | 0.031 | 0.31 |
| 16 | 16 | 66 | 82 | 310 | 190 | 0.034 | 0.33 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | 19 | 69 | 88 | 315 | 160 | 0.037 | 0.34 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | 25 | 75 | 100 | 320 | 120 | 0.042 | 0.37 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 38 | 38.1 | 88.1 | 126.2 | 330 | 80 | 0.052 | 0.43 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 50 | 50 | 100 | 150 | 335 | 60 | 0.062 | 0.48 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 63 | 63.5 | 113.5 | 177 | 335 | 50 | 0.074 | 0.54 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80 | 80 | 130 | 210 | 340 | 40 | 0.087 | 0.61 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 100 | 100 | 150 | 250 | 345 | 30 | 0.104 | 0.66 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 125 | 125 | 175 | 300 | 350 | 25 | 0.125 | 0.83 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| IGS500-10 | 10 | 95 | 105 | 45 | 20 | 16.5 | 2 | 1 | 4 | 4 | 10.5 | M8 x 13 (2x) | 20 | - | 150 (15.0) | 470 | | | | | | | | | | | | | | | | | | 570 | 300 | 0.033 | 0.78 |
| 13 | 12.7 | 97.7 | 110.4 | | | | | | | | | | | | | | | | 580 | 235 | 0.036 | 0.87 | | | | | | | | | | | | | | | |
| 25 | 25 | 110 | 135 | | | | | | | | | | | | | | | | 610 | 120 | 0.051 | 0.95 | | | | | | | | | | | | | | | |
| 38 | 38.1 | 123.1 | 161.2 | | | | | | | | | | | | | | | | 630 | 80 | 0.066 | 1.04 | | | | | | | | | | | | | | | |
| 50 | 50 | 135 | 185 | | | | | | | | | | | | | | | | 640 | 60 | 0.080 | 1.12 | | | | | | | | | | | | | | | |
| 63 | 63.5 | 148.5 | 212 | | | | | | | | | | | | | | | | 660 | 50 | 0.095 | 1.20 | | | | | | | | | | | | | | | |
| 80 | 80 | 165 | 245 | | | | | | | | | | | | | | | | 660 | 40 | 0.115 | 1.30 | | | | | | | | | | | | | | | |
| 100 | 100 | 185 | 285 | | | | | | | | | | | | | | | | 670 | 30 | 0.138 | 1.41 | | | | | | | | | | | | | | | |
| 125 | 125 | 210 | 335 | | | | | | | | | | | | | | | | 680 | 25 | 0.167 | 1.60 | | | | | | | | | | | | | | | |
| 160 | 160 | 245 | 405 | | | | | | | | | | | | | | | | 700 | 19 | 0.192 | 1.93 | | | | | | | | | | | | | | | |
| 200 | 200 | 285 | 485 | | | | | | | | | | | | | | | | 700 | 15 | 0.239 | 2.10 | | | | | | | | | | | | | | | |
| IGS750-13 | 12.7 | 107.7 | 120.4 | | | | | | | | | | | | | | | | 50 | 25 | 17.5 | 3 | 2 | 8 | 5 | 10.5 | M8 x 13 (2x) | 20 | - | 150 (15.0) | 740 | | | 930 | 235 | 0.05 | 1.16 |
| 25 | 25 | 120 | 145 | 990 | 120 | 0.07 | 1.26 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 38 | 38.1 | 133.1 | 171.2 | 1040 | 80 | 0.09 | 1.37 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 50 | 50 | 145 | 195 | 1070 | 60 | 0.10 | 1.47 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 63 | 63.5 | 158.5 | 222 | 1090 | 50 | 0.12 | 1.59 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 75 | 75 | 170 | 245 | 1110 | 40 | 0.14 | 1.70 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80 | 80 | 175 | 255 | 1110 | 40 | 0.15 | 1.74 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 88 | 87.5 | 182.5 | 270 | 1120 | 35 | 0.16 | 1.80 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 100 | 100 | 195 | 295 | 1130 | 30 | 0.17 | 1.92 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 113 | 112.5 | 207.5 | 320 | 1140 | 27 | 0.19 | 2.03 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 125 | 125 | 220 | 345 | 1150 | 25 | 0.21 | 2.13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 138 | 137.5 | 232.5 | 370 | 1210 | 22 | 0.21 | 2.36 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 150 | 150 | 245 | 395 | 1210 | 20 | 0.22 | 2.51 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 160 | 160 | 255 | 415 | 1220 | 19 | 0.24 | 2.60 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 175 | 175 | 270 | 445 | 1220 | 17 | 0.26 | 2.73 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 200 | 200 | 295 | 495 | 1220 | 15 | 0.30 | 2.94 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 225 | 225 | 320 | 545 | 1220 | 13 | 0.33 | 3.16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 250 | 250 | 345 | 595 | 1220 | 12 | 0.37 | 3.31 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 275 | 275 | 370 | 645 | 1230 | 11 | 0.40 | 3.59 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 300 | 300 | 395 | 695 | 1230 | 10 | 0.44 | 3.81 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| IGS1500-13 | 12.7 | 122.3 | 135 | 75 | 36 | 21 | 3 | 2.5 | 8 | 5 | 10.5 | M8 x 13 (4x) | 40 | - | 150 (15.0) | 1530 | | | 1870 | 235 | 0.13 | 3.01 | | | | | | | | | | | | | | | |
| 25 | 25 | 135 | 160 | | | | | | | | | | | | | | | | 1980 | 120 | 0.17 | 3.27 | | | | | | | | | | | | | | | |
| 38 | 38.1 | 148.1 | 186.2 | | | | | | | | | | | | | | | | 2060 | 80 | 0.21 | 3.51 | | | | | | | | | | | | | | | |
| 50 | 50 | 160 | 210 | | | | | | | | | | | | | | | | 2110 | 60 | 0.25 | 3.73 | | | | | | | | | | | | | | | |
| 63 | 63.5 | 173.5 | 237 | | | | | | | | | | | | | | | | 2160 | 50 | 0.29 | 3.97 | | | | | | | | | | | | | | | |
| 75 | 75 | 185 | 260 | | | | | | | | | | | | | | | | 2190 | 40 | 0.33 | 4.18 | | | | | | | | | | | | | | | |
| 80 | 80 | 190 | 270 | | | | | | | | | | | | | | | | 2200 | 40 | 0.35 | 4.27 | | | | | | | | | | | | | | | |
| 88 | 87.5 | 197.5 | 285 | | | | | | | | | | | | | | | | 2220 | 35 | 0.37 | 4.39 | | | | | | | | | | | | | | | |
| 100 | 100 | 210 | 310 | | | | | | | | | | | | | | | | 2240 | 30 | 0.41 | 4.63 | | | | | | | | | | | | | | | |
| 113 | 112.5 | 222.5 | 335 | | | | | | | | | | | | | | | | 2260 | 27 | 0.45 | 4.84 | | | | | | | | | | | | | | | |
| 125 | 125 | 235 | 360 | | | | | | | | | | | | | | | | 2270 | 25 | 0.49 | 5.08 | | | | | | | | | | | | | | | |
| 138 | 137.5 | 247.5 | 385 | | | | | | | | | | | | | | | | 2390 | 22 | 0.47 | 5.77 | | | | | | | | | | | | | | | |
| 150 | 150 | 260 | 410 | | | | | | | | | | | | | | | | 2400 | 20 | 0.51 | 5.99 | | | | | | | | | | | | | | | |
| 160 | 160 | 270 | 430 | | | | | | | | | | | | | | | | 2400 | 19 | 0.55 | 6.17 | | | | | | | | | | | | | | | |
| 175 | 175 | 285 | 460 | | | | | | | | | | | | | | | | 2410 | 17 | 0.59 | 6.45 | | | | | | | | | | | | | | | |
| 200 | 200 | 310 | 510 | | | | | | | | | | | | | | | | 2410 | 15 | 0.67 | 6.90 | | | | | | | | | | | | | | | |
| 225 | 225 | 335 | 560 | | | | | | | | | | | | | | | | 2420 | 13 | 0.75 | 7.35 | | | | | | | | | | | | | | | |
| 250 | 250 | 360 | 610 | | | | | | | | | | | | | | | | 2420 | 12 | 0.83 | 7.81 | | | | | | | | | | | | | | | |
| 275 | 275 | 385 | 660 | | | | | | | | | | | | | | | | 2430 | 11 | 0.92 | 8.26 | | | | | | | | | | | | | | | |
| 300 | 300 | 410 | 710 | | | | | | | | | | | | | | | | 2430 | 10 | 0.99 | 8.72 | | | | | | | | | | | | | | | |

All the gas spring models in this table are in accordance with Article 4.3 of the 2014/68/EU Pressure Equipment Directive (PED)
 Tutti i modelli di cilindri in questa tabella sono in accordo con l'articolo 4.3 della Direttiva Apparecchi a Pressione (PED) 2014/68/UE

"L-VERSION" (FOR LINKED SYSTEM) / "VERSIONE L" (PER COLLEGAMENTO A SISTEMA)

When the IGS gas springs are to be used in a linked system, make sure to order the "L-version" by adding "-L" after the gas spring code. The "L-version" gas springs are supplied already discharged and without valve, ready for the connection to linked system.
 Example: **"IGS750-50-L"**

Quando i cilindri IGS devono essere collegati a sistema, assicuratevi di ordinare la "versione L" aggiungendo la dicitura "-L" dopo il codice dei cilindri. I cilindri "versione L" sono forniti già scarichi e senza valvola, pronti per il collegamento a sistema.
 Esempio: **"IGS750-50-L"**



REPAIR KIT / KIT DI RIPARAZIONE

| Gas spring code <i>Codice cilindro</i> | Repair kit code <i>Codice kit di riparazione</i> |
|---|---|
| IGS150-... | KR/IGS150 |
| IGS250-... | KR/IGS250 |
| IGS500-10 - IGS500-63 | KR/IGS500-1 |
| IGS500-80 - IGS500-200 | KR/IGS500-2 |
| IGS750-13 - IGS750-50 | KR/IGS750-1 |
| IGS750-63 - IGS750-300 | KR/IGS750-2 |
| IGS1500-13 - IGS1500-50 | KR/IGS1500-1 |
| IGS1500-63 - IGS1500-300 | KR/IGS1500-2 |

Download repair instructions from www.bordignon.com /
 Scarica le istruzioni per la riparazione da www.bordignon.com

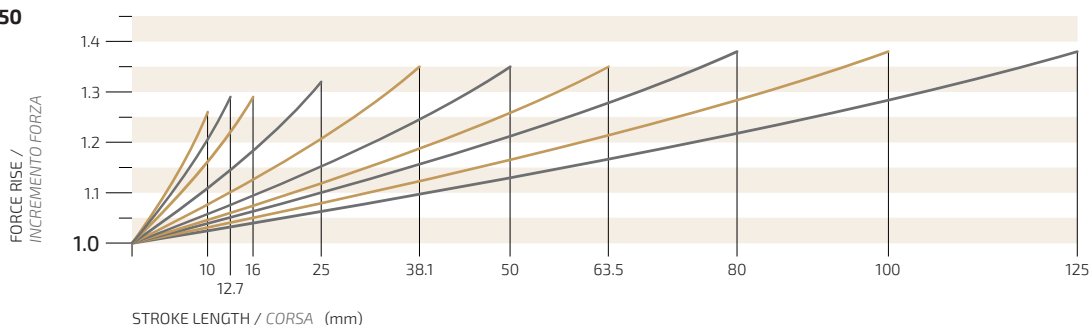
FORCE RISE VS. USED STROKE LENGTH CHARTS

GRAFICI INCREMENTO FORZA VS. CORSA UTILIZZATA

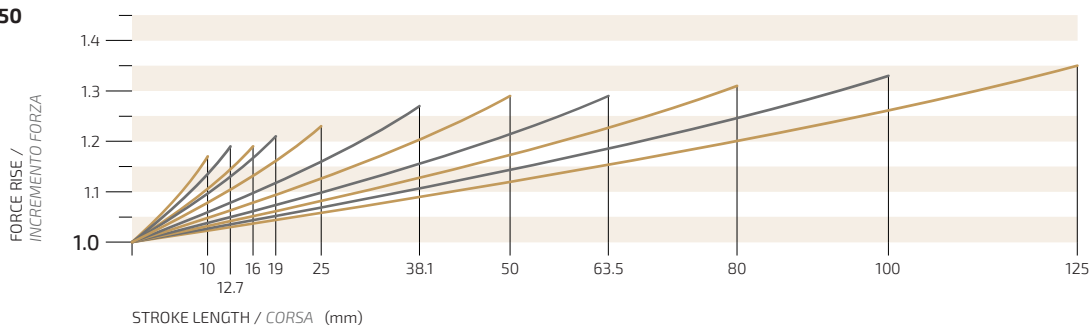
The force curves in the charts below are obtained from reference values measured in static conditions. The actual forces generated under use conditions may vary, since they depend on the specific parameters of the application, such as the working speed (cycles per minute).

Gli andamenti delle forze illustrati nei grafici seguenti sono ottenuti da valori di riferimento misurati in condizioni statiche. Le forze reali sviluppate in fase di utilizzo possono variare, in quanto dipendono dagli specifici parametri dell'applicazione, come ad esempio la velocità di lavoro (cicli al minuto).

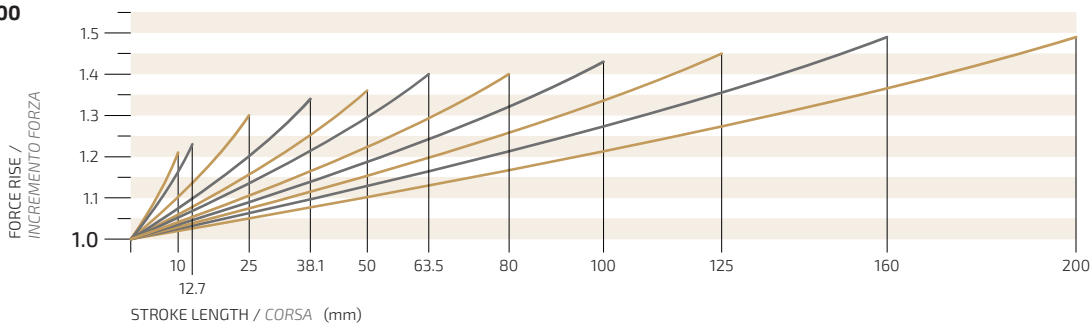
IGS150



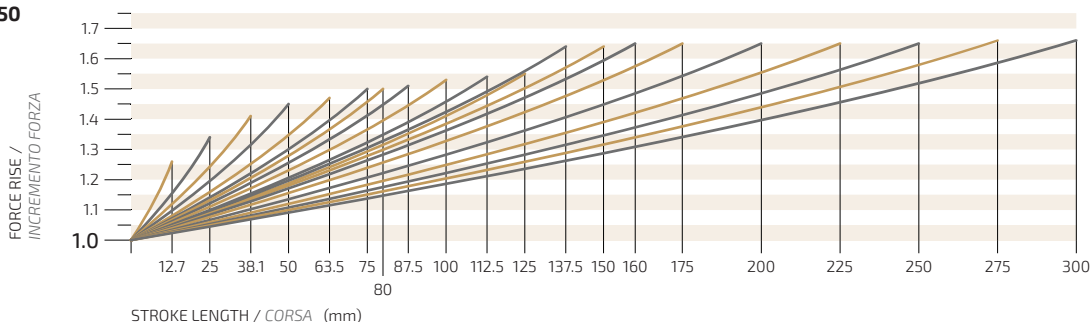
IGS250



IGS500



IGS750



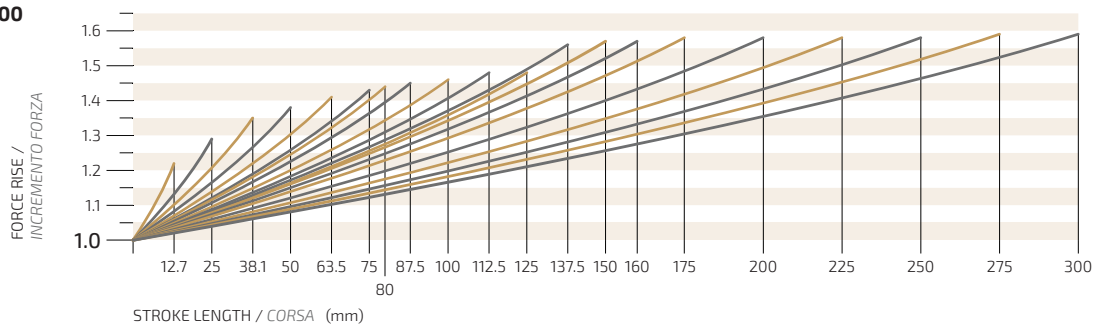
FORCE RISE VS. USED STROKE LENGTH CHARTS

The force curves in the charts below are obtained from reference values measured in static conditions. The actual forces generated under use conditions may vary, since they depend on the specific parameters of the application, such as the working speed (cycles per minute).

GRAFICI INCREMENTO FORZA VS. CORSA UTILIZZATA

Gli andamenti delle forze illustrati nei grafici seguenti sono ottenuti da valori di riferimento misurati in condizioni statiche. Le forze reali sviluppate in fase di utilizzo possono variare, in quanto dipendono dagli specifici parametri dell'applicazione, come ad esempio la velocità di lavoro (cicli al minuto).

IGS1500



IGS

3000~10000



This gas spring series includes the models compliant with automotive standards / Questa serie di cilindri include i modelli conformi agli standard automotive

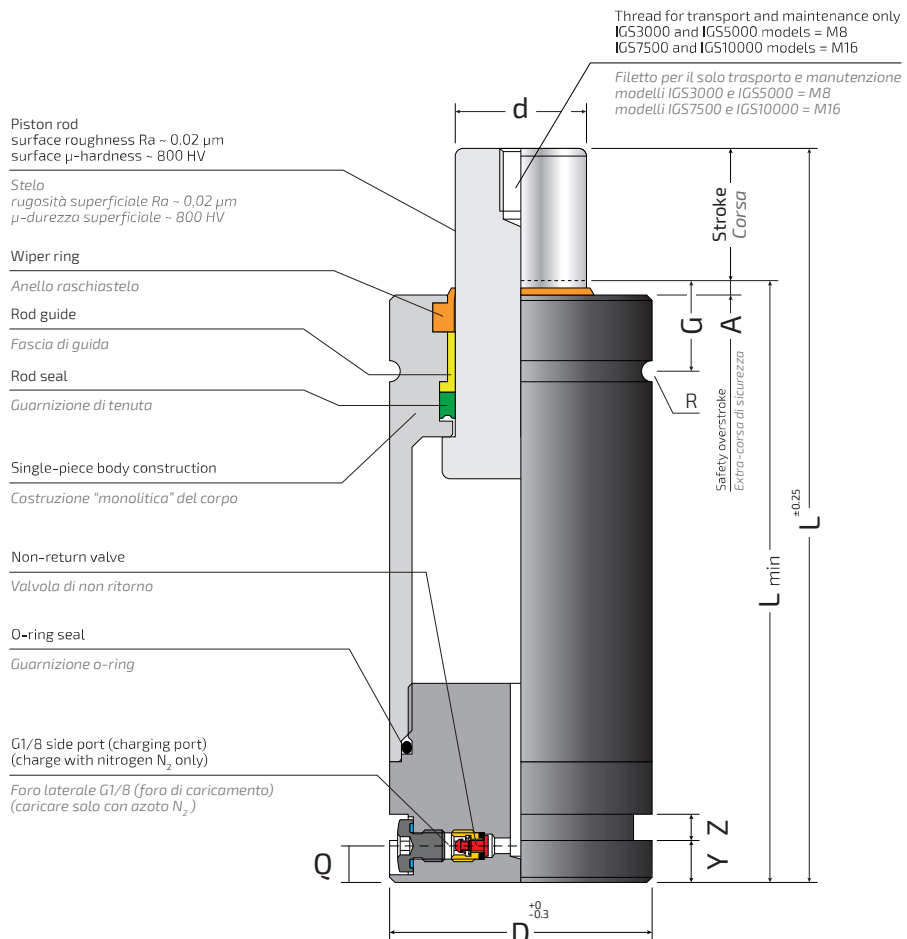
| | | | |
|--------------|---------------------|----------------|--------------|
| BMW | B2 4006 | Nissan | K 32 S |
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| Ford | W-DX35-6203 | Renault | EM24.54.700 |
| Mazda | PG23D | Suzuki | SES-K 5404e |
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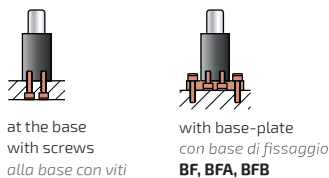
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Importanti istruzioni d'uso nella relativa sezione sul catalogo.

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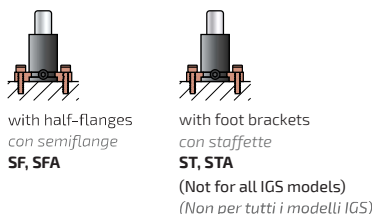
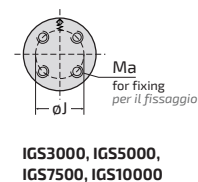
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Fixing possibilities / Fissaggi possibili

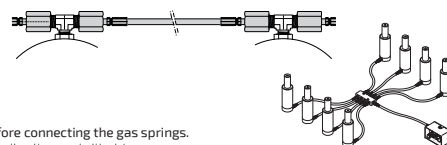


GAS SPRING BASE / BASE DEL CILINDRO

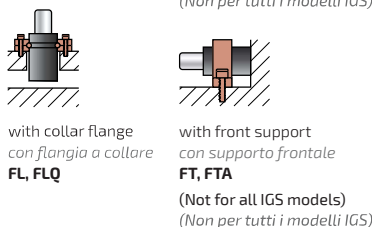


LINKING TO OPEN SYSTEM / COLLEGAMENTO A SISTEMA

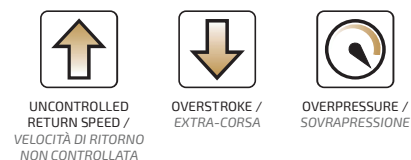
| | IGS3000-IGS10000 (G1/8 side port / foro laterale G1/8) | | |
|--|---|-----|----|
| Hoses Tubi | ATM | ATN | AT |
| Gas spring-hose fittings Raccordi cilindro-tubo | ARM | ARN | AR |



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ATTENZIONE! Seguire le istruzioni nella sezione "LINKED SYSTEM" prima di collegare i cilindri.



SAFETY PROTECTIONS / PROTEZIONI DI SICUREZZA



| Model Modello | MAX Stroke Corsa MAX mm | Lmin mm | L mm | D mm | d mm | G mm | A mm | R mm | Y mm | Z mm | Q mm | Ma | J mm | bar (MPa) | daN | daN | Cycles per minute MAX Cicli al minuto MAX | Gas volume Volume del gas Litres | Weight Peso kg |
|-------------------------------|-------------------------------|------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------------------|---------|---------------|-------|-------|--|--|----------------------|
| IGS3000 -13 | 12.7 | 132.3 | 145 | 95 | 50 | 24 | 3 | 2.5 | 8 | 5 | 10.5 | M8 x 13 (4x) | 60 | 150 (15.0) | 2945 | 3650 | 235 | 0.24 | 5.15 |
| 25 | 25 | 145 | 170 | | | | | | | | | | | | | 3850 | 120 | 0.30 | 5.58 |
| 38 | 38.1 | 158.1 | 196.2 | | | | | | | | | | | | | 4050 | 80 | 0.37 | 5.97 |
| 50 | 50 | 170 | 220 | | | | | | | | | | | | | 4200 | 60 | 0.43 | 6.33 |
| 63 | 63.5 | 183.5 | 247 | | | | | | | | | | | | | 4300 | 50 | 0.51 | 6.76 |
| 75 | 75 | 195 | 270 | | | | | | | | | | | | | 4400 | 40 | 0.57 | 7.10 |
| 80 | 80 | 200 | 280 | | | | | | | | | | | | | 4400 | 40 | 0.59 | 7.25 |
| 88 | 87.5 | 207.5 | 295 | | | | | | | | | | | | | 4450 | 35 | 0.63 | 7.49 |
| 100 | 100 | 220 | 320 | | | | | | | | | | | | | 4500 | 30 | 0.70 | 7.83 |
| 113 | 112.5 | 232.5 | 345 | | | | | | | | | | | | | 4550 | 27 | 0.76 | 8.21 |
| 125 | 125 | 245 | 370 | | | | | | | | | | | | | 4600 | 25 | 0.83 | 8.59 |
| 138 | 137.5 | 257.5 | 395 | | | | | | | | | | | | | 4900 | 22 | 0.80 | 9.72 |
| 150 | 150 | 270 | 420 | | | | | | | | | | | | | 4900 | 20 | 0.87 | 10.10 |
| 160 | 160 | 280 | 440 | | | | | | | | | | | | | 4900 | 19 | 0.92 | 10.42 |
| 175 | 175 | 295 | 470 | | | | | | | | | | | | | 4950 | 17 | 0.99 | 10.87 |
| 200 CE | 200 | 320 | 520 | | | | | | | | | | | | | 4950 | 15 | 1.13 | 11.64 |
| 225 CE | 225 | 345 | 570 | | | | | | | | | | | | | 5000 | 13 | 1.26 | 12.40 |
| 250 CE | 250 | 370 | 620 | | | | | | | | | | | | | 5000 | 12 | 1.39 | 13.16 |
| 275 CE | 275 | 395 | 670 | | | | | | | | | | | | | 5000 | 11 | 1.53 | 13.92 |
| 300 CE | 300 | 420 | 720 | | | | | | | | | | | | | 5000 | 10 | 1.66 | 14.70 |
| IGS5000 -25 | 25 | 165 | 190 | 120 | 65 | 25.5 | 3 | 2.5 | 8 | 5 | 10.5 | M10 x 16 (4x) | 80 | 150 (15.0) | 4980 | 6600 | 120 | 0.48 | 10.78 |
| 38 | 38.1 | 178.1 | 216.2 | | | | | | | | | | | | | 7000 | 80 | 0.58 | 11.52 |
| 50 | 50 | 190 | 240 | | | | | | | | | | | | | 7300 | 60 | 0.67 | 12.20 |
| 63 | 63.5 | 203.5 | 267 | | | | | | | | | | | | | 7600 | 50 | 0.77 | 13.00 |
| 75 | 75 | 215 | 290 | | | | | | | | | | | | | 7700 | 40 | 0.85 | 13.62 |
| 80 | 80 | 220 | 300 | | | | | | | | | | | | | 7800 | 40 | 0.89 | 13.91 |
| 88 | 87.5 | 227.5 | 315 | | | | | | | | | | | | | 7900 | 35 | 0.95 | 14.27 |
| 100 CE | 100 | 240 | 340 | | | | | | | | | | | | | 8000 | 30 | 1.04 | 14.98 |
| 113 CE | 112.5 | 252.5 | 365 | | | | | | | | | | | | | 8200 | 27 | 1.14 | 15.70 |
| 125 CE | 125 | 265 | 390 | | | | | | | | | | | | | 8300 | 25 | 1.23 | 16.41 |
| 138 CE | 137.5 | 277.5 | 415 | | | | | | | | | | | | | 8900 | 22 | 1.19 | 18.18 |
| 150 CE | 150 | 290 | 440 | | | | | | | | | | | | | 8900 | 20 | 1.29 | 18.88 |
| 160 CE | 160 | 300 | 460 | | | | | | | | | | | | | 9000 | 19 | 1.36 | 19.45 |
| 175 CE | 175 | 315 | 490 | | | | | | | | | | | | | 9000 | 17 | 1.47 | 20.30 |
| 200 CE | 200 | 340 | 540 | | | | | | | | | | | | | 9100 | 15 | 1.66 | 21.72 |
| 225 CE | 225 | 365 | 590 | | | | | | | | | | | | | 9200 | 13 | 1.85 | 23.14 |
| 250 CE | 250 | 390 | 640 | | | | | | | | | | | | | 9200 | 12 | 2.04 | 24.56 |
| 275 CE | 275 | 415 | 690 | | | | | | | | | | | | | 9300 | 11 | 2.23 | 25.98 |
| 300 CE | 300 | 440 | 740 | | | | | | | | | | | | | 9300 | 10 | 2.42 | 27.40 |
| IGS7500 -25 CE | 25 | 180 | 205 | | | | | | | | | | | | | 150 | 80 | 27.5 | 3 |
| 38 CE | 38.1 | 193.1 | 231.2 | 9700 | 80 | 1.32 | 16.73 | | | | | | | | | | | | |
| 50 CE | 50 | 205 | 255 | 10000 | 60 | 1.47 | 17.69 | | | | | | | | | | | | |
| 63 CE | 63.5 | 218.5 | 282 | 10300 | 50 | 1.64 | 18.74 | | | | | | | | | | | | |
| 75 CE | 75 | 230 | 305 | 10500 | 40 | 1.79 | 19.65 | | | | | | | | | | | | |
| 80 CE | 80 | 235 | 315 | 10600 | 40 | 1.86 | 20.04 | | | | | | | | | | | | |
| 88 CE | 87.5 | 242.5 | 330 | 10700 | 35 | 1.95 | 20.52 | | | | | | | | | | | | |
| 100 CE | 100 | 255 | 355 | 10900 | 30 | 2.11 | 21.55 | | | | | | | | | | | | |
| 113 CE | 112.5 | 267.5 | 380 | 11000 | 27 | 2.27 | 22.48 | | | | | | | | | | | | |
| 125 CE | 125 | 280 | 405 | 11200 | 25 | 2.43 | 23.52 | | | | | | | | | | | | |
| 138 CE | 137.5 | 292.5 | 430 | 11800 | 22 | 2.33 | 26.50 | | | | | | | | | | | | |
| 150 CE | 150 | 305 | 455 | 11900 | 20 | 2.49 | 27.53 | | | | | | | | | | | | |
| 160 CE | 160 | 315 | 475 | 12000 | 19 | 2.62 | 28.33 | | | | | | | | | | | | |
| 175 CE | 175 | 330 | 505 | 12000 | 17 | 2.82 | 29.49 | | | | | | | | | | | | |
| 200 CE | 200 | 355 | 555 | 12200 | 15 | 3.14 | 31.47 | | | | | | | | | | | | |
| 225 CE | 225 | 380 | 605 | 12300 | 13 | 3.46 | 33.43 | | | | | | | | | | | | |
| 250 CE | 250 | 405 | 655 | 12400 | 12 | 3.78 | 35.39 | | | | | | | | | | | | |
| 275 CE | 275 | 430 | 705 | 12500 | 11 | 4.10 | 37.36 | | | | | | | | | | | | |
| 300 CE | 300 | 455 | 755 | 12600 | 10 | 4.43 | 39.33 | | | | | | | | | | | | |
| IGS10000 -25 CE | 25 | 185 | 210 | 195 | 95 | 33.5 | 3 | 2.5 | 8 | 8 | 15 | M12 x 18 (4x) | 120 | 150 (15.0) | 10600 | | | | |
| 38 CE | 38.1 | 198.1 | 236.2 | | | | | | | | | | | | | 13300 | 80 | 2.16 | 29.90 |
| 50 CE | 50 | 210 | 260 | | | | | | | | | | | | | 13700 | 60 | 2.42 | 31.33 |
| 63 CE | 63.5 | 223.5 | 287 | | | | | | | | | | | | | 14000 | 50 | 2.72 | 32.92 |
| 80 CE | 80 | 240 | 320 | | | | | | | | | | | | | 14300 | 40 | 3.09 | 34.87 |
| 100 CE | 100 | 260 | 360 | | | | | | | | | | | | | 14600 | 30 | 3.53 | 37.22 |
| 125 CE | 125 | 285 | 410 | | | | | | | | | | | | | 14900 | 25 | 4.08 | 40.17 |
| 160 CE | 160 | 320 | 480 | | | | | | | | | | | | | 15900 | 19 | 4.23 | 49.23 |
| 200 CE | 200 | 360 | 560 | | | | | | | | | | | | | 16100 | 15 | 5.12 | 53.95 |
| 250 CE | 250 | 410 | 660 | | | | | | | | | | | | | 16300 | 12 | 6.22 | 59.84 |
| 300 CE | 300 | 460 | 760 | | | | | | | | | | | | | 17200 | 10 | 6.62 | 71.32 |

CE The gas spring models for which the CE symbol is indicated have an internal gas volume > 1 litre. They fall into Category II of the 2014/68/EU Pressure Equipment Directive (PED).

All the other gas spring models in this table are in accordance with Article 4.3 of the 2014/68/EU Pressure Equipment Directive (PED).

I modelli di cilindri per i quali è indicato il simbolo CE hanno un volume interno del gas > 1 litro. Rientrano nella Categoria II della Direttiva Apparecchi a Pressione (PED) 2014/68/UE.

Tutti i gli altri modelli di cilindri in questa tabella sono in accordo con l'Articolo 4.3 della Direttiva Apparecchi a Pressione (PED) 2014/68/UE.

"L-VERSION" (FOR LINKED SYSTEM) / "VERSIONE L" (PER COLLEGAMENTO A SISTEMA)

When the IGS gas springs are to be used in a linked system, make sure to order the "L-version" by adding "-L" after the gas spring code. The "L-version" gas springs are supplied already discharged and without valve, ready for the connection to linked system.

Example: **"IGS5000-50-L"**

Quando i cilindri IGS devono essere collegati a sistema, assicuratevi di ordinare la "versione L" aggiungendo la dicitura "-L" dopo il codice dei cilindri. I cilindri "versione L" sono forniti già scarichi e senza valvola, pronti per il collegamento a sistema.

Esempio: **"IGS5000-50-L"**



REPAIR KIT / KIT DI RIPARAZIONE

| Gas spring code Codice cilindro | Repair kit code Codice kit di riparazione |
|------------------------------------|--|
| IGS3000-13 - IGS3000-50 | KR/IGS3000-1 |
| IGS3000-63 - IGS3000-300 | KR/IGS3000-2 |
| IGS5000-25, IGS5000-38 | KR/IGS5000-1 |
| IGS5000-50 - IGS5000-300 | KR/IGS5000-2 |
| IGS7500-25, IGS7500-38 | KR/IGS7500-1 |
| IGS7500-50 - IGS7500-300 | KR/IGS7500-2 |
| IGS10000-25, IGS10000-38 | KR/IGS10000-1 |
| IGS10000-50 - IGS10000-300 | KR/IGS10000-2 |

Download repair instructions from www.bordignon.com /

Scarica le istruzioni per la riparazione da www.bordignon.com

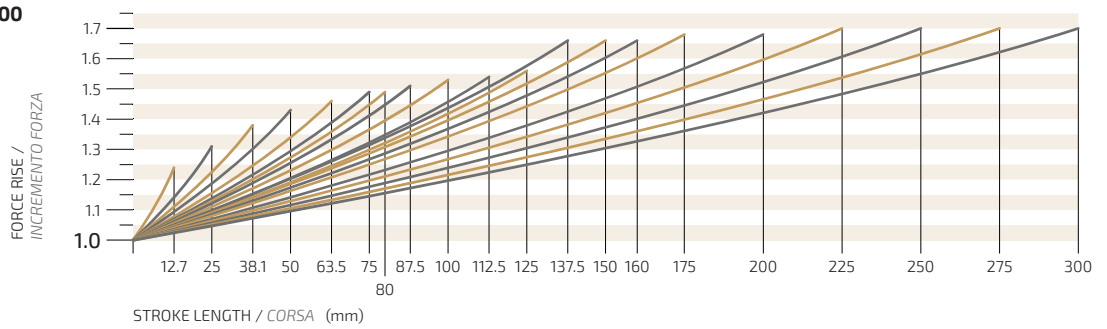
FORCE RISE VS. USED STROKE LENGTH CHARTS

GRAFICI INCREMENTO FORZA VS. CORSA UTILIZZATA

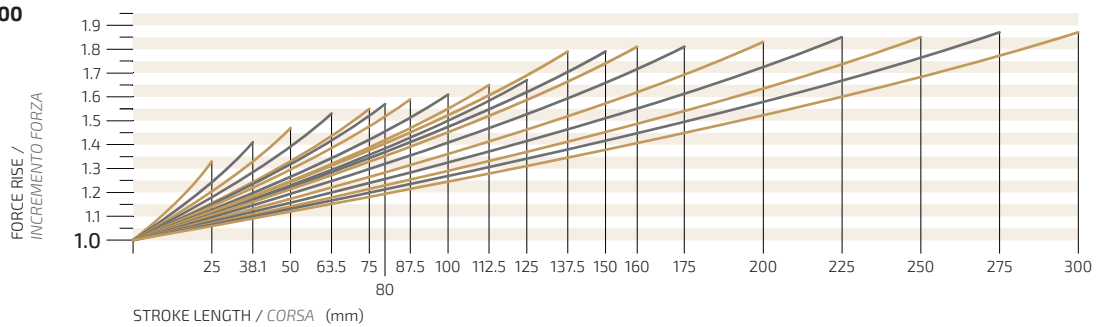
The force curves in the charts below are obtained from reference values measured in static conditions. The actual forces generated under use conditions may vary, since they depend on the specific parameters of the application, such as the working speed (cycles per minute).

Gli andamenti delle forze illustrati nei grafici seguenti sono ottenuti da valori di riferimento misurati in condizioni statiche. Le forze reali sviluppate in fase di utilizzo possono variare, in quanto dipendono dagli specifici parametri dell'applicazione, come ad esempio la velocità di lavoro (cicli al minuto).

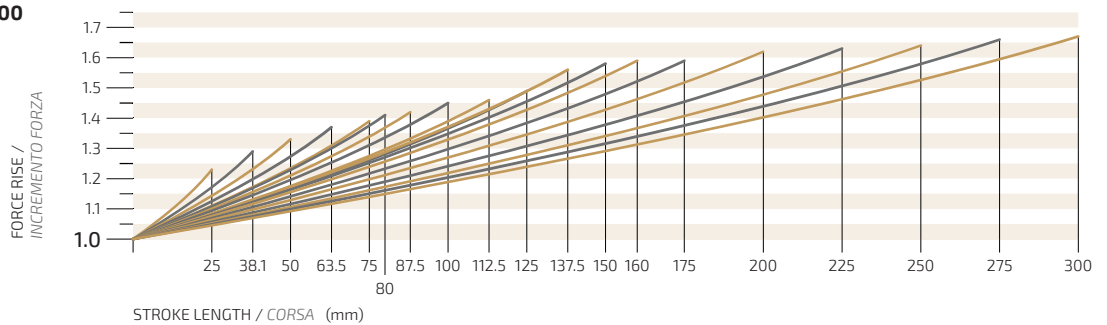
IGS3000



IGS5000



IGS7500



IGS10000

