



FRENI A PINZA

CALIPER BRAKES



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Thermal Capacity for Emergency Stop

Le pinze freno OMPI sono progettate e realizzate per poter operare secondo le condizioni di lavoro e le caratteristiche tecniche definite nel presente catalogo. Esse coprono una vasta gamma di applicazioni, in grado di soddisfare tutte le esigenze della clientela. E' opportuno quindi selezionare la tipologia di prodotto più adatta alle proprie occorrenze, facendo riferimento ai parametri delle relative specifiche tecniche.

SCELTA DELL'APPLICAZIONE

In fase di progettazione è opportuno selezionare la pinza freno da impiegare in modo da avere una corretta applicazione della stessa, e poter quindi sfruttare al meglio la caratteristiche di ogni tipologia di prodotto disponibile. Si ricorda inoltre che, per ottenere il valore nominale della coppia, occorre avere un completo assestamento del materiale sul disco.

Per ciò che riguarda in particolare le pinze freno usate come stazionamento è consigliabile un calcolo non inferiore a F.S.2.

SUGGERIMENTI PER UN CORRETTO UTILIZZO DEL PRODOTTO

Per prevenire spiacevoli incidenti si invitano gli addetti al rispetto della direttiva CEE 89/656 e 89/686 relativa all'impiego di dispositivi ed equipaggiamenti idonei per la protezione adeguata da carichi e/o pesi. Inoltre si ricorda che:

- Le pinze freno negative contengono molle meccanicamente precaricate, il cui montaggio e manutenzione deve essere eseguita da personale specializzato.
- Le pinze freno idrauliche richiedono l'utilizzo di olio a base minerale SAE ISO 46 in quantità estremamente limitate per il rispetto dell'ambiente.

RISPETTO DELLE NORMATIVE

Il materiale d'attrito impiegato nei freni a pinza è esente da amianto. Si raccomanda il suo corretto smaltimento, una volta usurato, secondo le leggi vigenti nel Paese in cui vengono utilizzati (direttiva CEE 75/442).

Per l'eliminazione e il recupero degli oli usati il riferimento è alla direttiva CEE 75/439.

Questa parte di macchina è destinata ad essere incorporata nella macchina per la quale è stata progettata e non può funzionare in modo indipendente. Si fa divieto di messa in servizio prima di aver dichiarato conforme alle disposizioni vigenti la macchina di destinazione.

OMPI caliper brakes are planned and realized to operate according to the work conditions and the technical features which are mentioned in this catalogue. They cover a wide range of applications in order to satisfy all the customers' needs. We advise you to choose the type of product that better suits your needs and also to refer to the parameters of the respective and specific technics.

CHOICE OF THE APPLICATION

In planning we suggest you to choose the caliper brake you use in order to have its correct application. In this way you can take the greatest advantage from the features of every type of available product. Moreover we remind you that you need to have a total arrangement of the material on the disk in order to get the nominal value of the torque.

As far as the caliper brakes used as stop are concerned we advise you a calculation not lower than F.S.2.

SUGGESTIONS FOR A CORRECT USE OF THE PRODUCT

The staff is advise to respect the E.U. directives 89/656 and 89/686 in order to avoid unpleasant incidents. They concern the use of suitable devices and equipments to be properly protected against loads and/or weights. Moreover we remind you that:

- *The hydraulically released caliper brakes contain mechanically pre-loaded springs whose assemblage and maintenance must be carried out by qualified staff.*
- *They hydraulic caliper brakes require the use of oil on mineral base SAE ISO 46 in extremely limited quantity in order to respect the environment.*

RESPECT OF THE LAWS

The attrition material used in the caliper brakes is free from asbetos. We suggest you to get rid of it correctly once it is worn out according to the current laws of the country where it is used (E.U. directive 75/442). As far as the elimination and recycling of the used oil are concerned we remind you to refer to the E.U. directive 75/439.

This product is intended to be used on the machine it has been designed for and it must not be used independently. It is forbidden to use it to machines that are not in compliance with the current regulation.

SIMBOLI ED UNITÀ DI MISURA

Md = Coppia dinamica [Nm]
Jt = Inerzia totale [Kg*m²]
n = Numero di giri [N°/min]
t = Tempo di frenatura [s]
v = Velocità lineare [m/min]
z = Numero interventi
T = Tensione applicata [N]
D = Diametro bobina [m]
Nc = Potenza dissipata in calore in continuo [N]
Nz = Potenza dissipata in calore per ogni frenata [Kw]

NB: La coppia dinamica Md è quella indicata nelle caratteristiche tecniche di ogni pinza e ne determina la grandezza e le prestazioni. Per poterla calcolare identifichiamo tre applicazioni basilari di cui forniamo le relative basi di calcolo.

SYMBOLS AND UNIT OF MEASUREMENT

Md = Dynamic torque [Nm]
Jt = Total inertia load [Kg*M²]
n = Rotating speed [min]
t = Time [s]
v = Web speed [m/min]
z = Stops/minute
T = Web tension [N]
d = Roll diameter [m]
Nc = Continuous mean power [N]
Nz = Mean braking power [Kw]

NB: The dynamic torque (Md) is the one mentioned in the technical features of every caliper. It produces its size and performances. In order to calculate it we identify three fundamental applications. Here we suggest you their bases of calculation.

FRENATA CICLICA *CYCLIC STOP*

Coppia dinamica
Dynamic torque

$$M_d = \frac{J_t \cdot n}{9,56 \cdot t} = \text{Nm}$$

Potenza dissipata in calore per frenata
Mean breaking power

$$N_z = \frac{J_t \cdot n^2}{182,4 \cdot 10^3 \cdot t} = \text{Kw}$$

Potenza dissipata in calore in continuo
Continuous mean power

$$N_c = \frac{N_z \cdot z \cdot t}{60} = \text{Kw}$$

SLITTAMENTO CONTINUO *TENSIONING*

Velocità lineare
Web speed

$$V = \pi \cdot D \cdot n = \text{m / min.}$$

Potenza dissipata in calore in continuo
Continuous mean power

$$N_c = \frac{T \cdot V}{60 \cdot 10^3} = \text{Kw}$$

Coppia dinamica
Dynamic torque

$$M_d = \frac{T \cdot D}{Z} = \text{Nm}$$

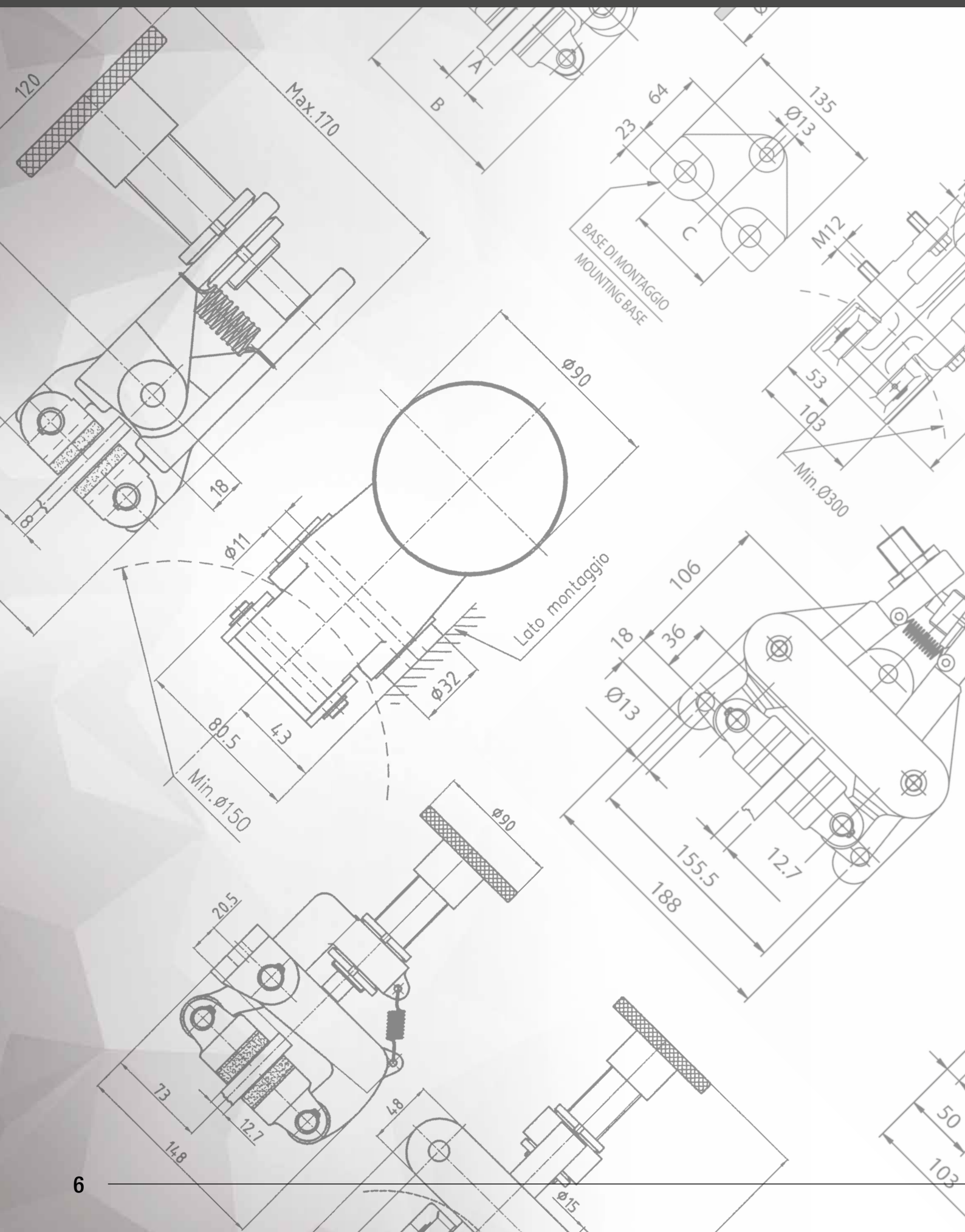
FRENATURA D'EMERGENZA *EMERGENCY STOP*

Coppia dinamica
Dynamic torque

$$M_d = \frac{J_t \cdot n}{9,56 \cdot t} = \text{Nm}$$

Potenza dissipata in calore per frenata
Mean breaking power

$$N_z = \frac{J_t \cdot n^2}{182,4 \cdot 10^3 \cdot t} = \text{Kw}$$





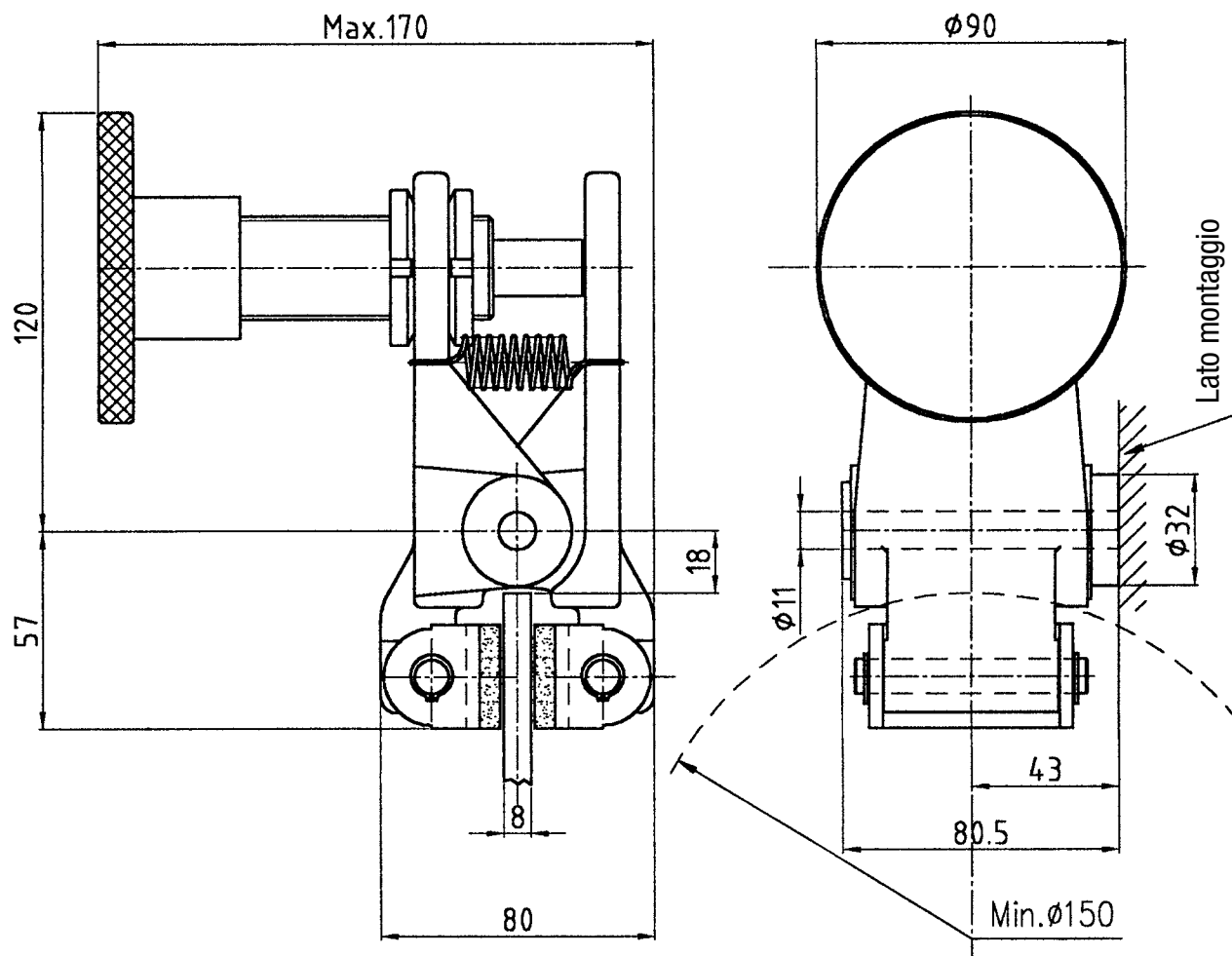
I freni a pinza a comando manuale OMPI risultano essere l'applicazione ideale per macchine di relativa semplicità nelle quali non è indispensabile una frenatura regolabile con continuità.

Questa tipologia di prodotto risulta quindi essere un ottimo mix tra la massima semplicità d'impiego e elevate prestazioni.

O MPI mechanically actuated brakes are the ideal application for machines of relative simplicity where a continuous brake tuning is not essential.

So this type of product is an excellent mix between the maximum simplicity of use and its successful performances.

COD. M1

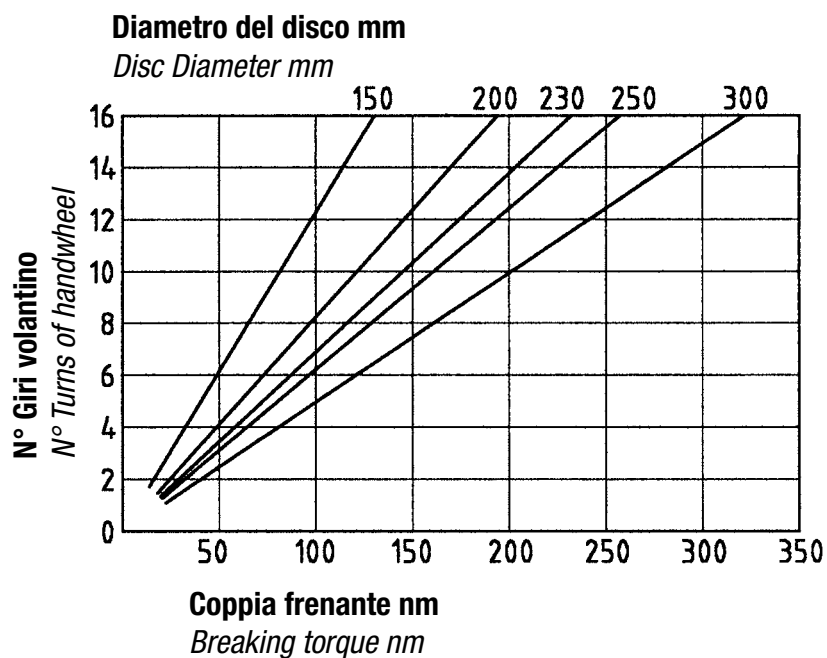


DATI TECNICI

- Md forza frenante:
max 2540 N
- Coppia dinamica:
= $Md \cdot (\text{raggio disco in m} - 0,025) = Nm$
- Peso 3,3 Kg

TECHNICAL DATA

- Md braking force:
max 2540 N
- Dynamic torque:
= $Md \cdot (\text{disc radius in m} - 0,025) = Nm$
- Weight 3,3 Kg

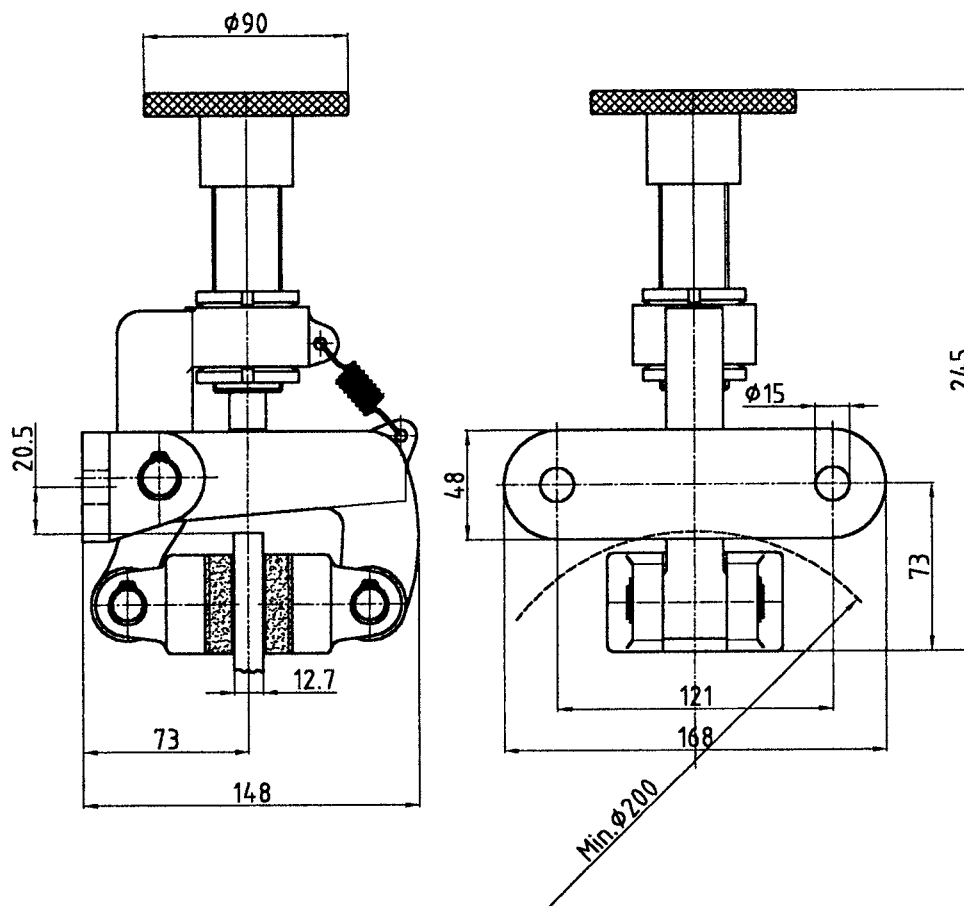


PINZE MANUALI HAND OPERATED BRAKES

FRENO A PINZA - dimensioni e prestazioni
CALIPER BRAKE - dimension and performances

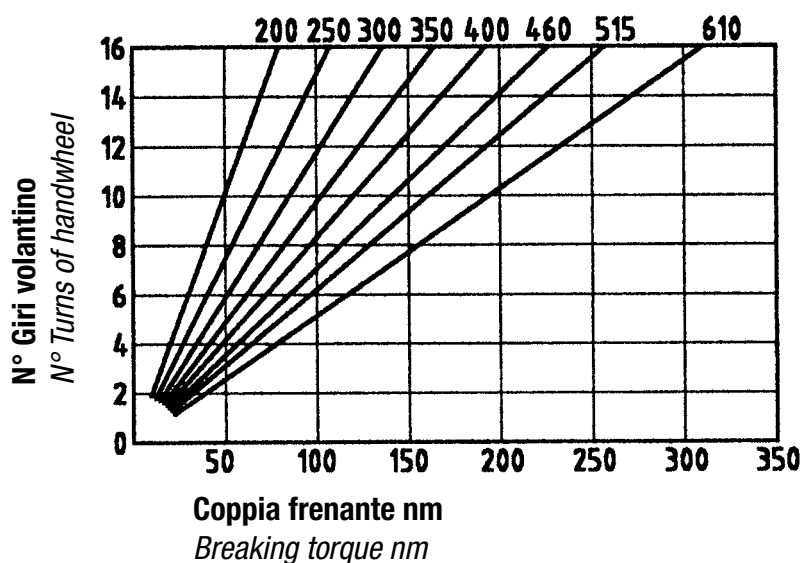
SP/M

COD. M2



Diametro del disco mm

Disc Diameter mm



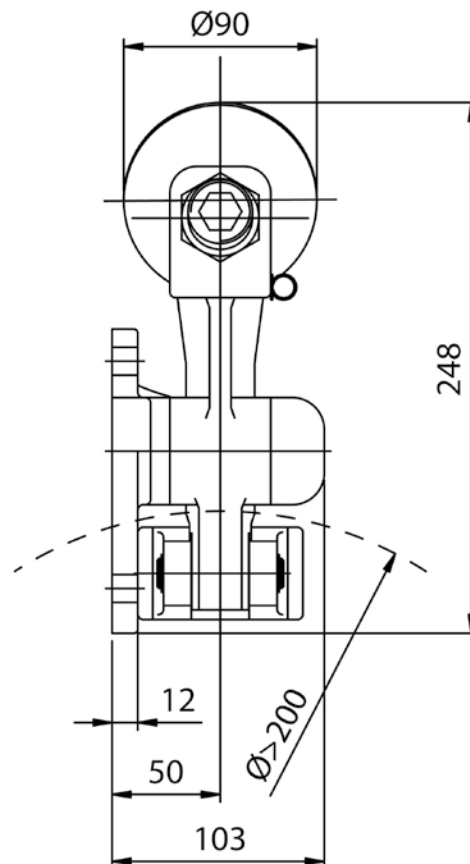
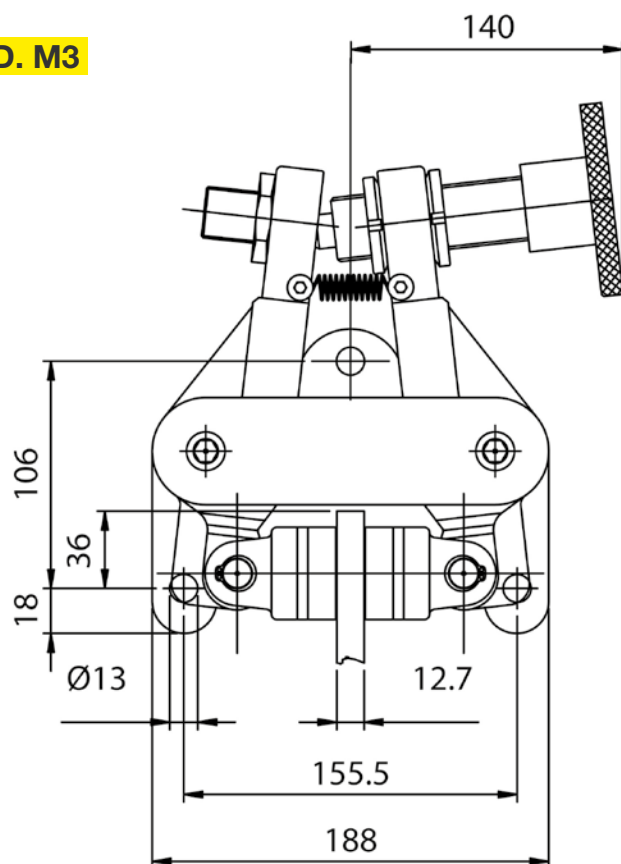
DATI TECNICI

- Md forza frenante:
max 1130 N
- Coppia dinamica:
 $= Md \cdot (\text{raggio disco in m} - 0,032) = \text{Nm}$
- Peso 5,4 Kg

TECHNICAL DATA

- Md braking force:
max 1130 N
- Dynamic torque:
 $= Md \cdot (\text{disc radius in m} - 0,032) = \text{Nm}$
- Weight 5,4 Kg

COD. M3

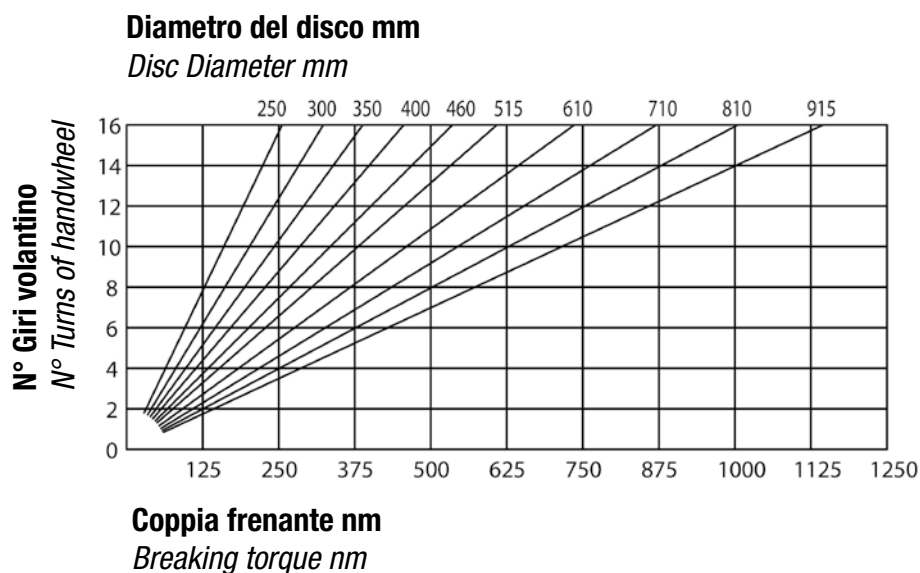


DATI TECNICI

- Md forza frenante:
max 2680 N
- Coppia dinamica:
= $Md \cdot (\text{raggio disco in m} - 0,03) = Nm$
- Peso 9 Kg

TECHNICAL DATA

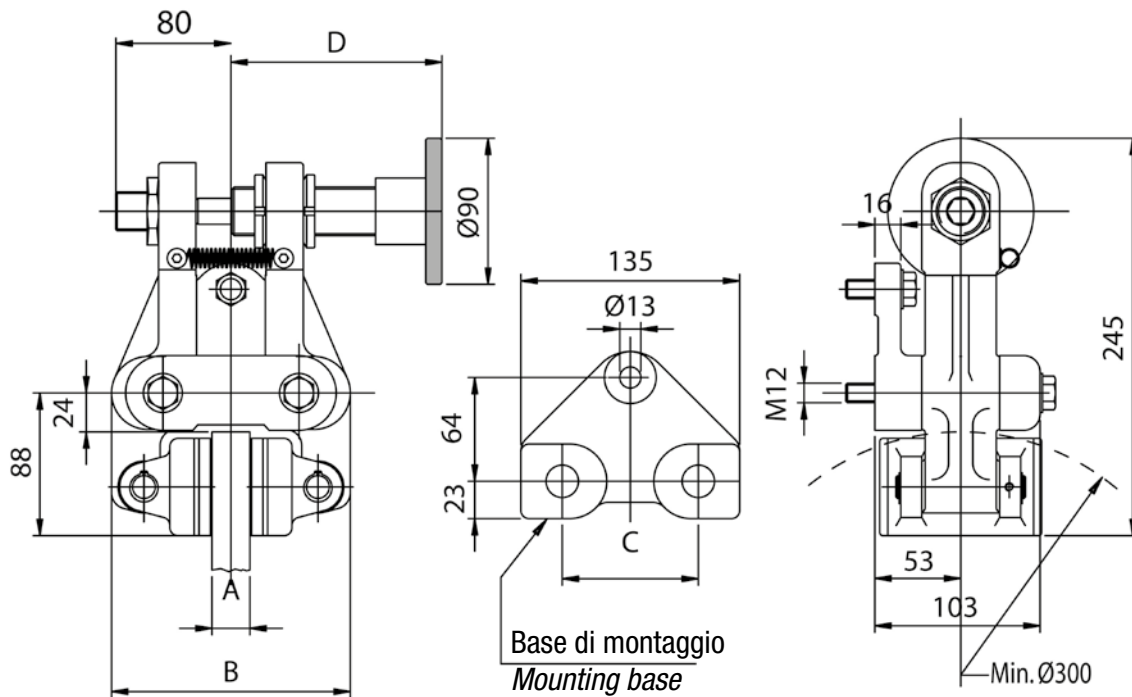
- Md braking force:
max 2680 N
- Dynamic torque:
= $Md \cdot (\text{disc radius in m} - 0,03) = Nm$
- Weight 9 Kg



FRENO A PINZA - dimensioni e prestazioni
CALIPER BRAKE - dimension and performances

SPX/M

COD. M4



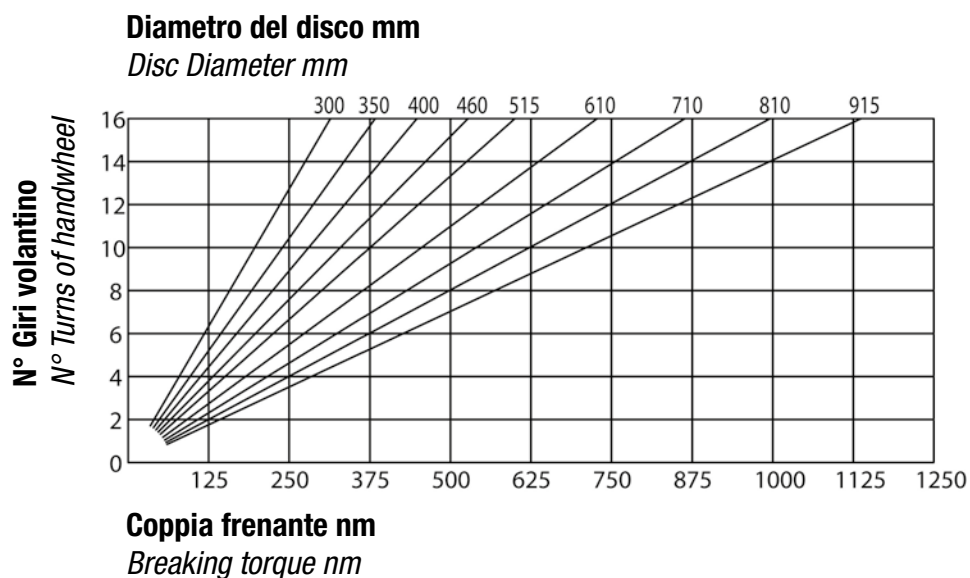
A	12.7	25.4	30	40
B	142	155	160	170
C	75	84	75	84
D	135	135	146	155

DATI TECNICI

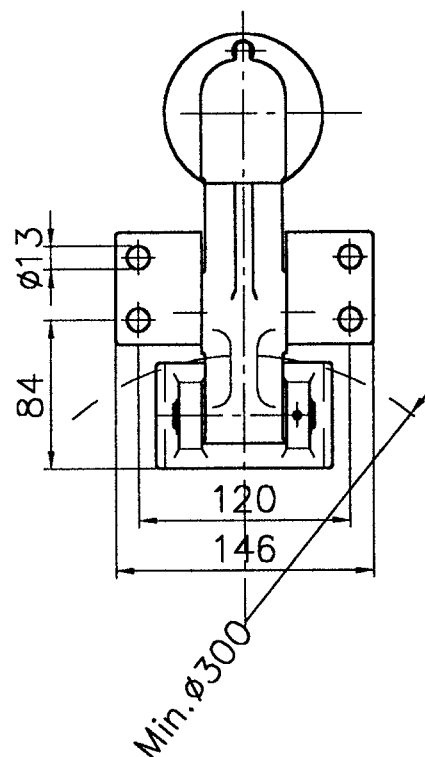
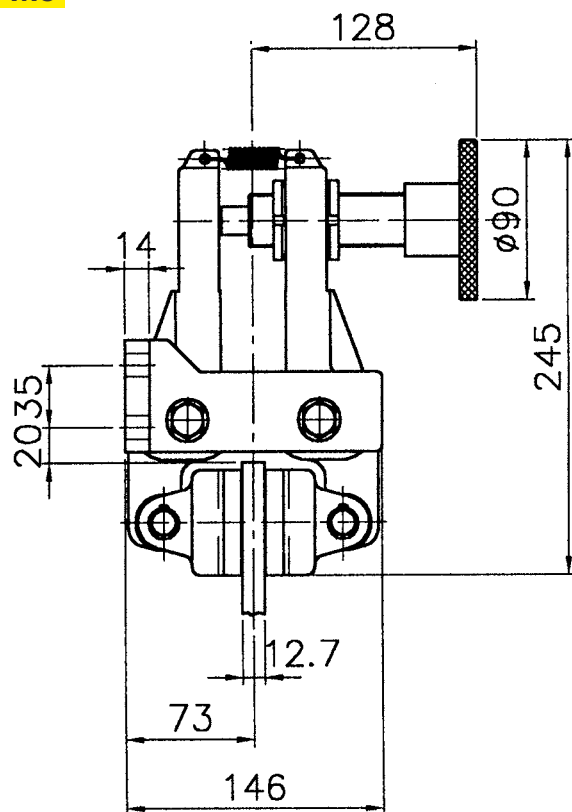
- Md forza frenante:
max 2680 N
- Coppia dinamica:
= $Md \cdot (\text{raggio disco in m } -0,033) = \text{Nm}$
- Peso 9,5 Kg

TECHNICAL DATA

- *Md braking force:*
max 2680 N
- *Dynamic torque:*
 $= Md \cdot (\text{disc radius in m } -0,033) = Nm$
- *Weight 9,5 Kg*



COD. M5

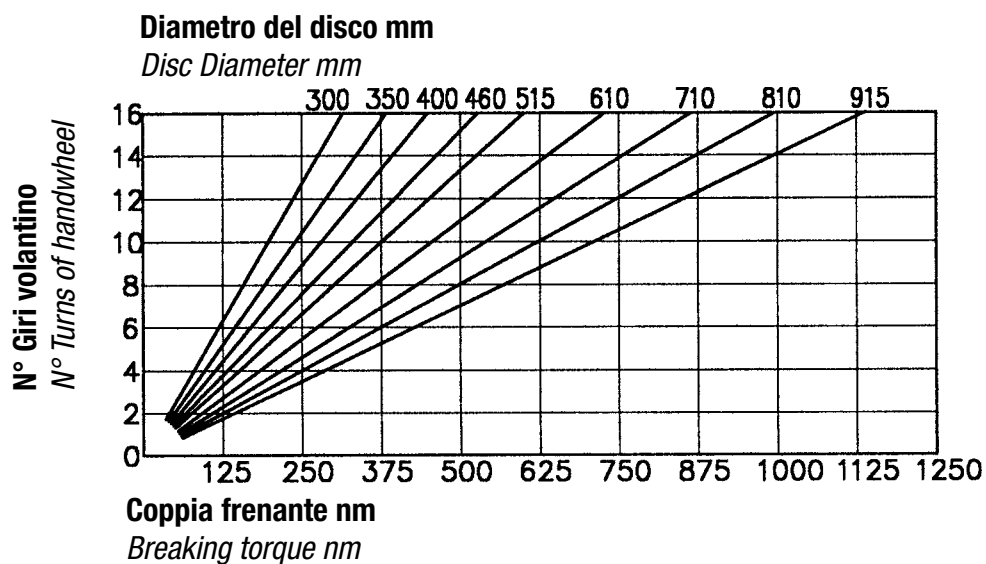


DATI TECNICI

- Md forza frenante:
max 2680 N
- Coppia dinamica:
= $Md \cdot (\text{raggio disco in m} - 0,033) = Nm$
- Peso 9,6 Kg

TECHNICAL DATA

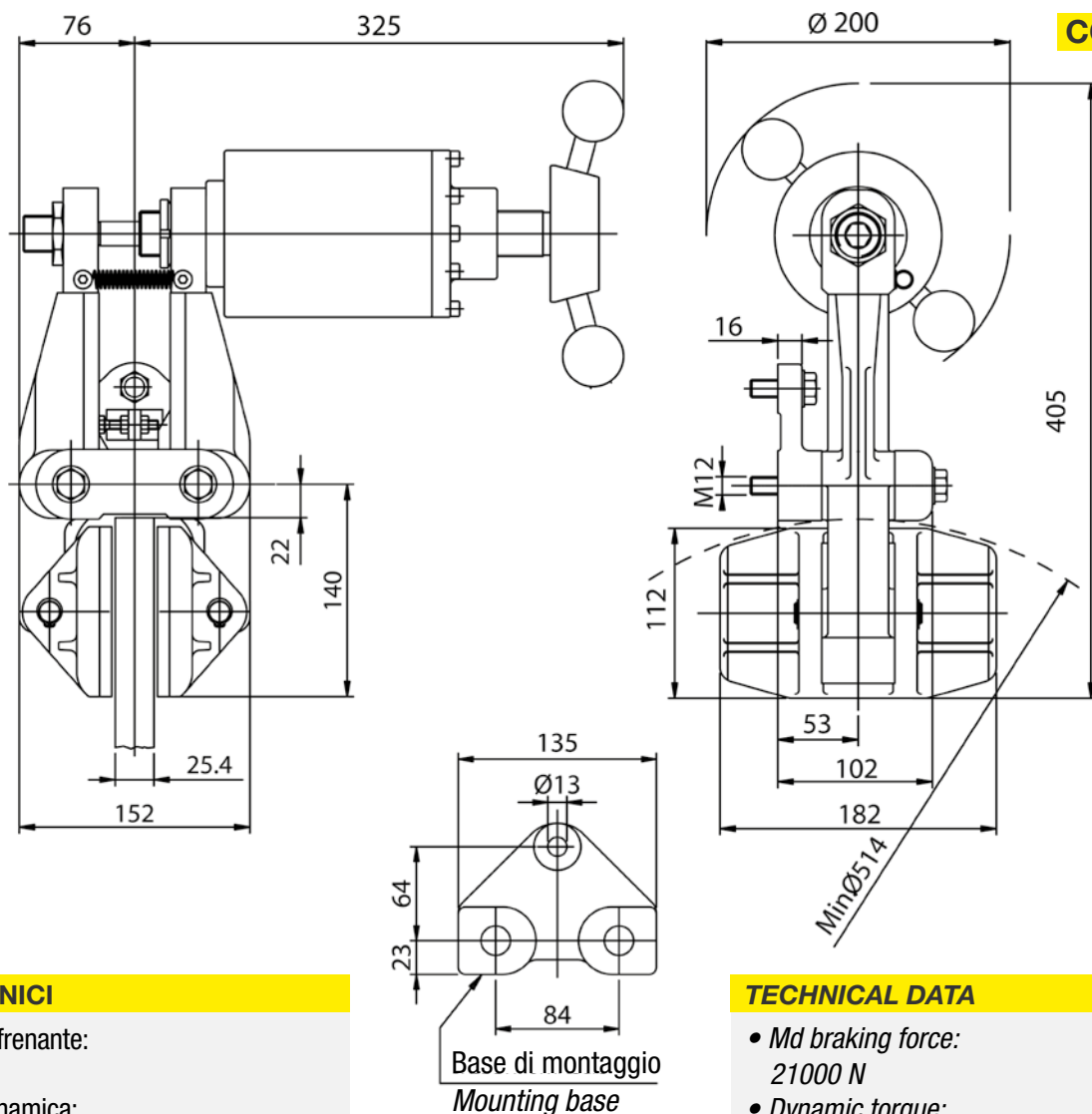
- Md braking force:
max 2680 N
- Dynamic torque:
= $Md \cdot (\text{disc radius in m} - 0,033) = Nm$
- Weight 9,6 Kg



PINZE MANUALI HAND OPERATED BRAKES

FRENO A PINZA - dimensioni e prestazioni
CALIPER BRAKE - dimension and performances

SPL/M

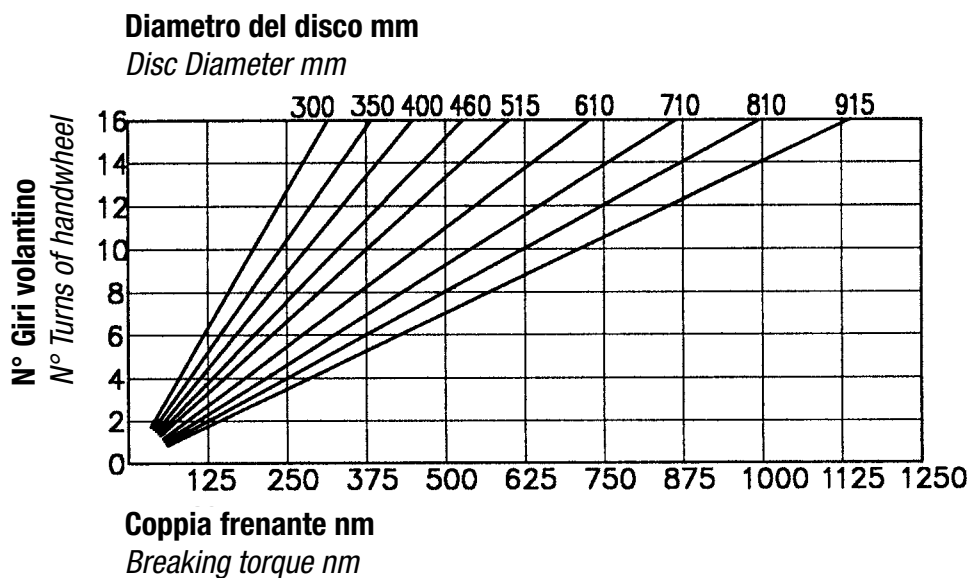


DATI TECNICI

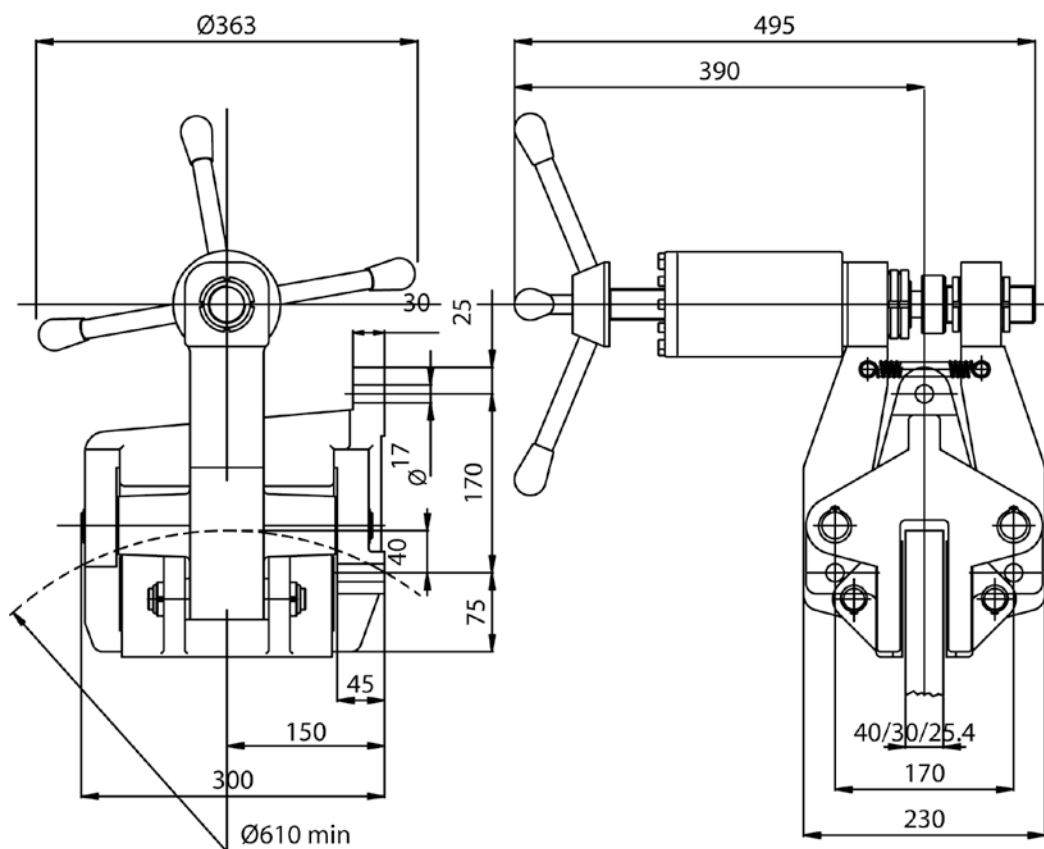
- Md forza frenante:
21000 N
- Coppia dinamica:
= $Md \cdot (\text{raggio disco in m} - 0,062) = Nm$
- Peso 22 Kg

TECHNICAL DATA

- Md braking force:
21000 N
- Dynamic torque:
= $Md \cdot (\text{disc radius in m} - 0,062) = Nm$
- Weight 22 Kg



COD. M7

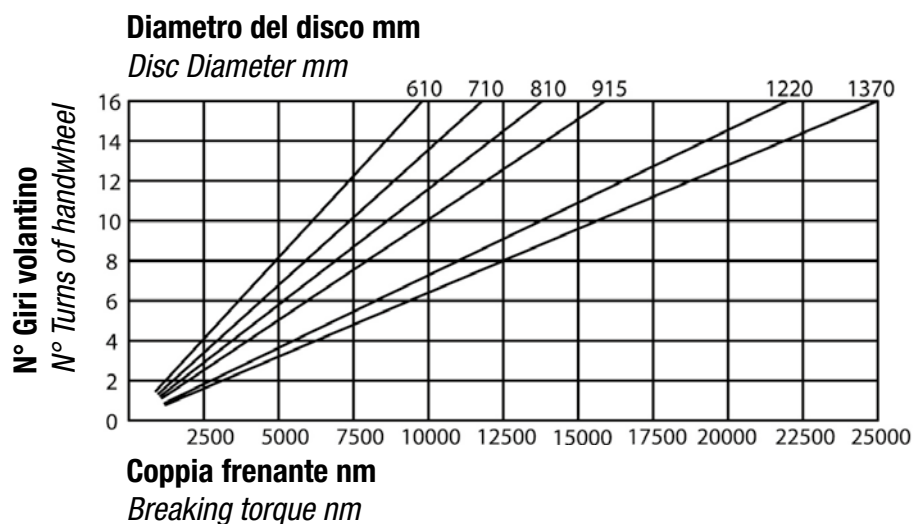


DATI TECNICI

- Md forza frenante:
max 40000 N
- Coppia dinamica:
= $Md \cdot (\text{raggio disco in m} - 0,065) = Nm$
- Peso 66 Kg

TECHNICAL DATA

- Md braking force:
max 40000
- Dynamic torque:
= $Md \cdot (\text{disc radius in m} - 0,065) = Nm$
- Weight 66 Kg



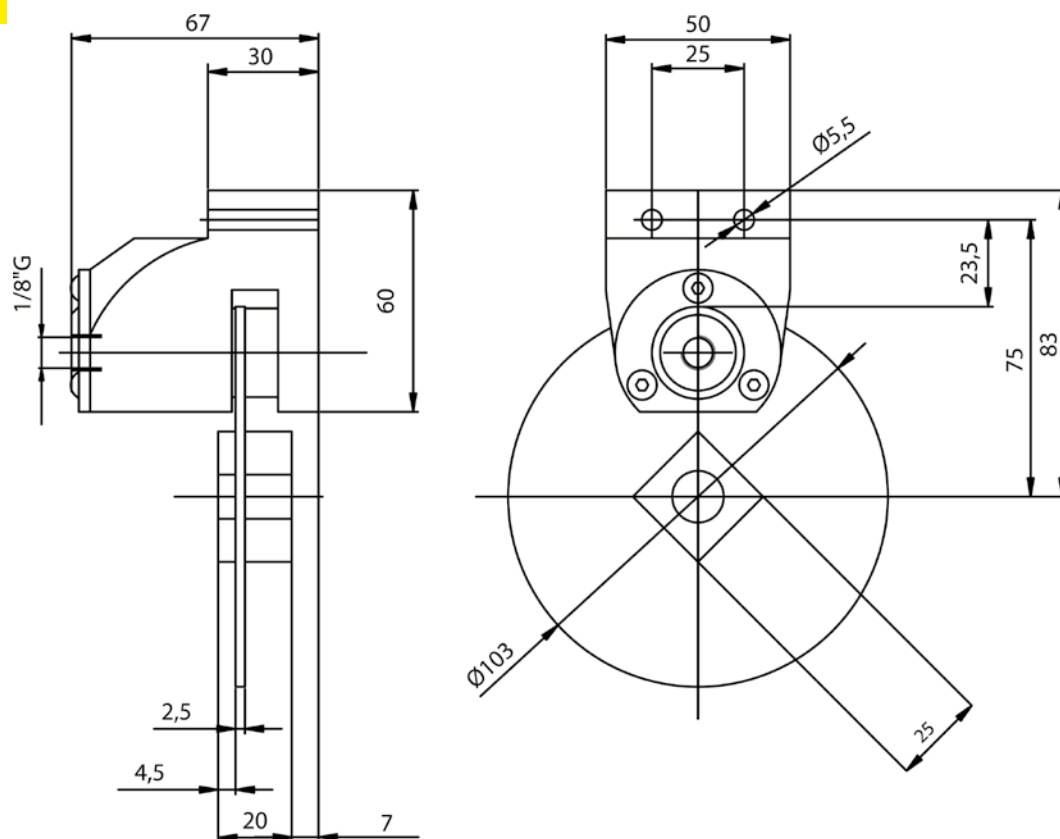
PINZE PNEUMATICHE POSITIVE *PNEUMATIC CALIPER BRAKES air applied*



L' ampia gamma di freni a pinza a comando pneumatico OMPI consente di soddisfare le esigenze più diverse riscontrabili nel campo della progettazione di macchine moderne. Le numerose possibilità di montaggio unite all'efficacia e alla precisione del dispositivo pneumatico consentono di risolvere qualsiasi problema legato alla frenatura.

O MPI wide pneumatic caliper brakes range is perfect to satisfy all the different needs in planning modern machines.
The different possibilities of assemblage connected with the efficiency and precision of the pneumatic device can solve any type of braking problem.

COD. PPZ



DATI TECNICI

- Md forza frenante:
190 N a 6 bar
- Coppia dinamica:
 $= Md \cdot (\text{raggio disco in m} - 0,013) = Nm$
- Pressione max 6 bar
- Volume aria 1 cm³
- Peso 0,65 Kg

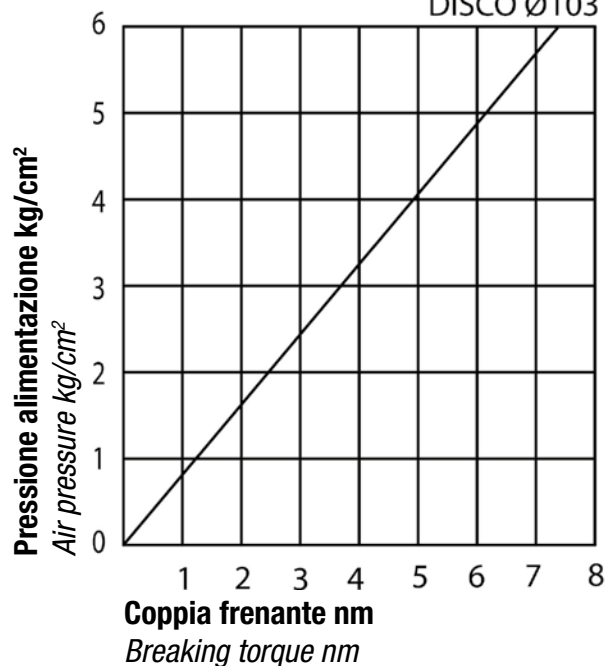
TECHNICAL DATA

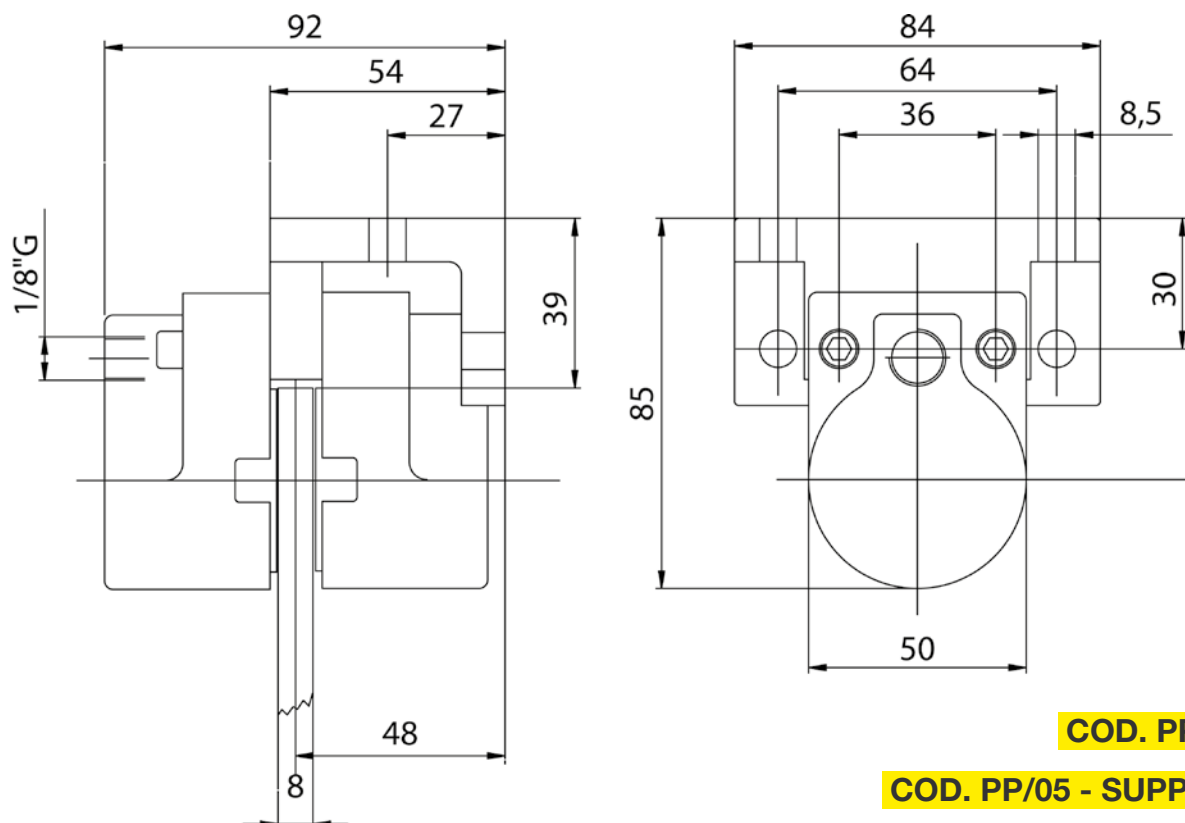
- *Md braking force:*
190 N at 6 bar
- *Dynamic torque:*
 $= Md \cdot (\text{disc radius in m} - 0,013) = Nm$
- *Max pressure 6 bar*
- *Air volume 1 cm³*
- *Weight 0,65 Kg*

Diametro del disco mm

Disc Diameter mm

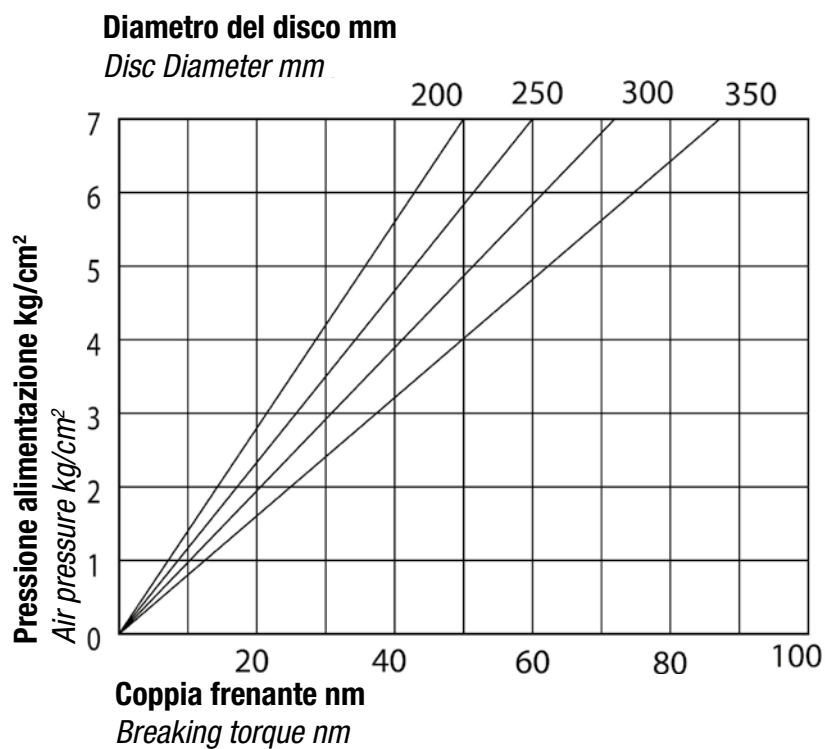
DISCO Ø103





COD. PPO/0,5

COD. PP/05 - SUPPORTO



DATI TECNICI

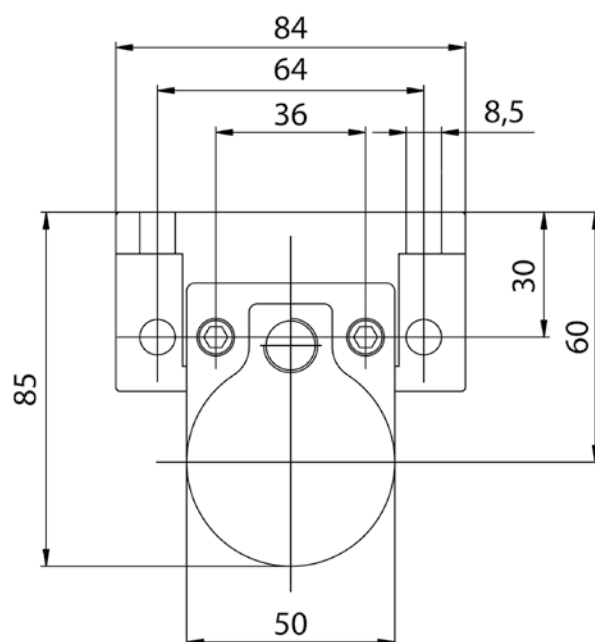
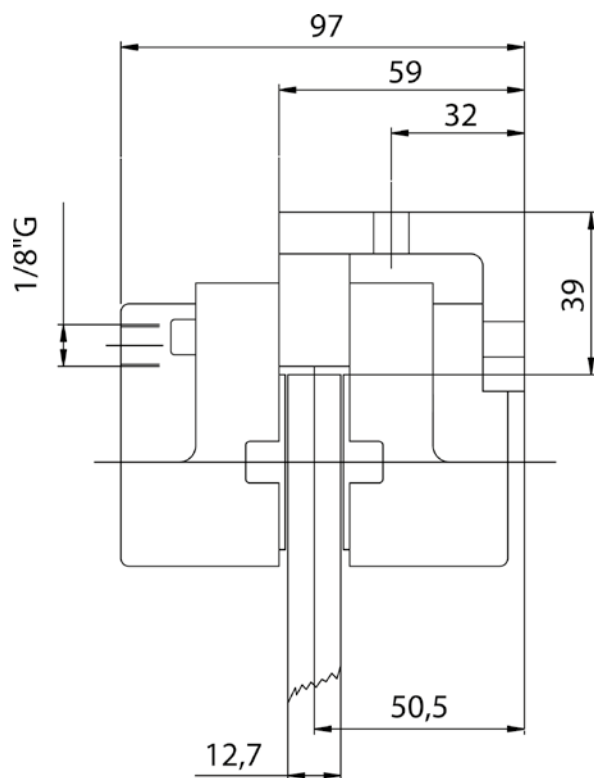
- Md forza frenante:
570 N a 7 bar
- Coppia dinamica:
 $= Md \cdot (\text{raggio disco in m} - 0,022) = Nm$
- Pressione max 7 bar
- Volume aria 0,02 dm³
- Peso 0,750 Kg

TECHNICAL DATA

- Md braking force:
570 N at 7 bar
- Dynamic torque:
 $= Md \cdot (\text{disc radius in m} - 0,022) = Nm$
- Max pressure 7 bar
- Air volume 0,02 dm³
- Weight 0,750 Kg

COD. PPO/0,5-S

COD. PP/05 - SUPPORTO



DATI TECNICI

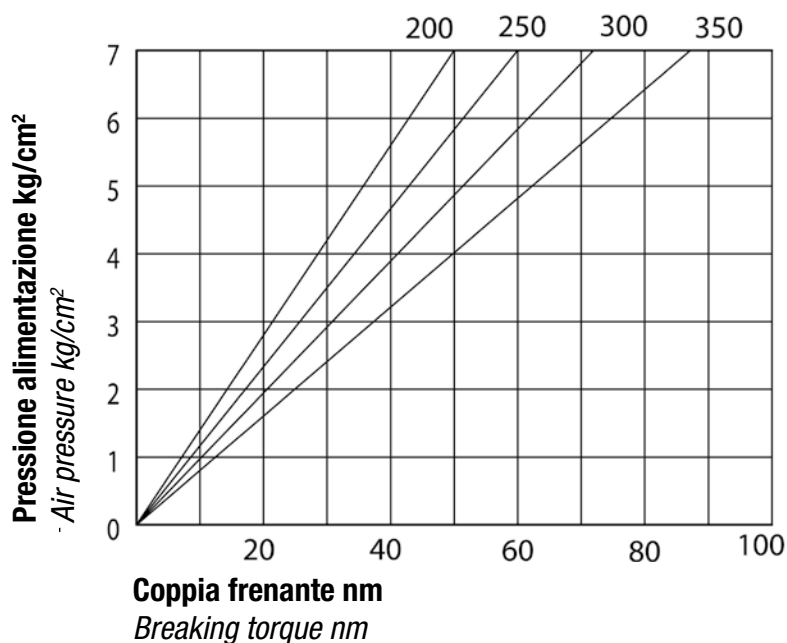
- Md forza frenante:
570 N a 7 bar
- Coppia dinamica:
 $= Md \cdot (\text{raggio disco in m} - 0,022) = Nm$
- Pressione max 7 bar
- Volume aria 0,02 dm³
- Peso 0,750 Kg

TECHNICAL DATA

- Md braking force:
570 N at 7 bar
- Dynamic torque:
 $= Md \cdot (\text{disc radius in m} - 0,022) = Nm$
- Max pressure 7 bar
- Air volume 0,02 dm³
- Weight 0,750 Kg

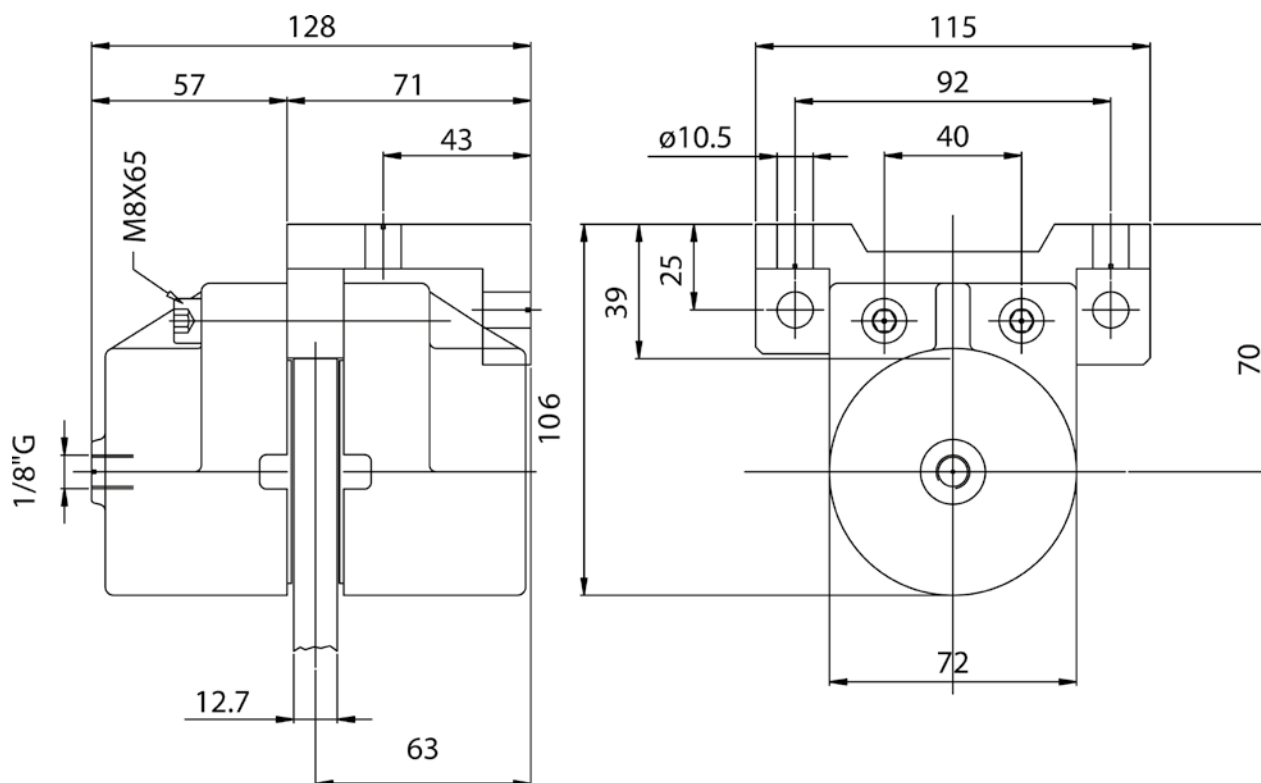
Diametro del disco mm

Disc Diameter mm



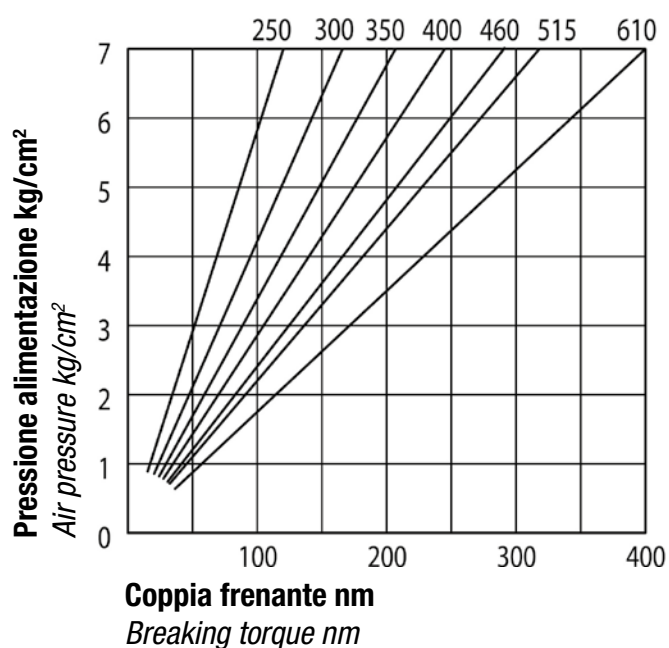
COD. PPO/O

COD. PP0/1 - SUPPORTO



Diametro del disco mm

Disc Diameter mm



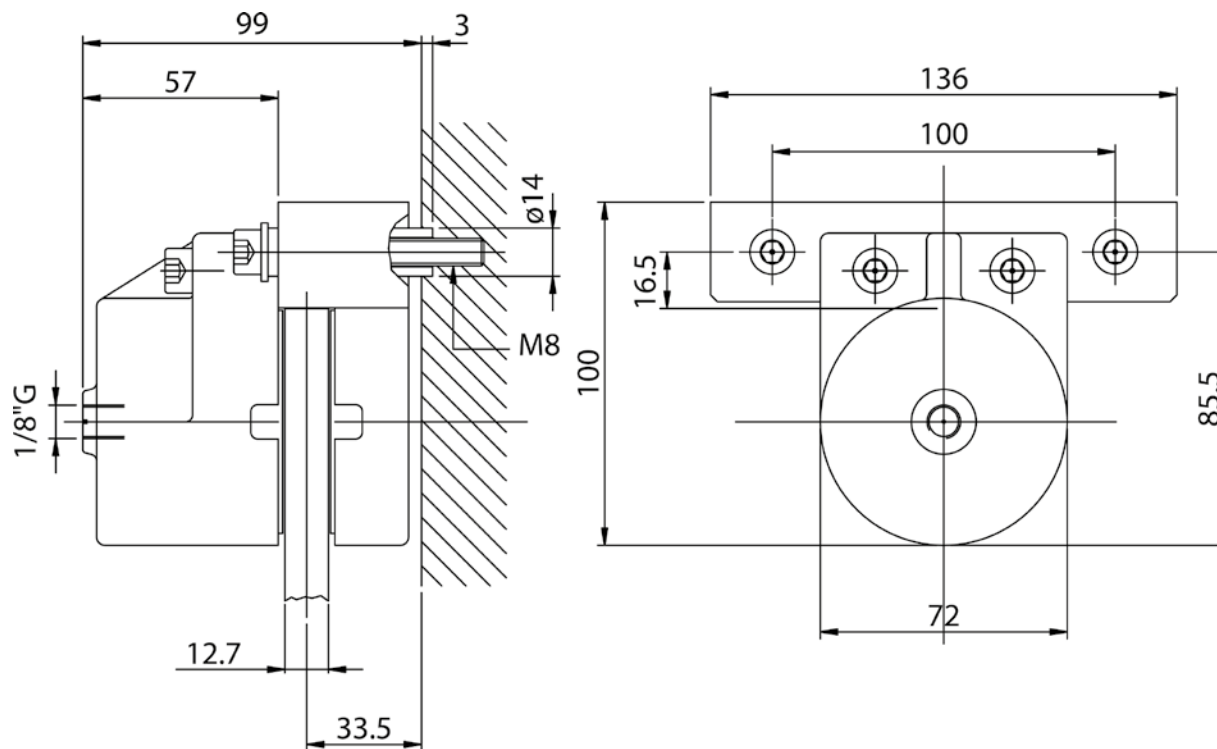
DATI TECNICI

- Md forza frenante:
1473 N a 7 bar
- Coppia dinamica:
 $= Md \cdot (\text{raggio disco in m} - 0,033) = Nm$
- Pressione max 7 bar
- Volume aria 0,04 dm³
- Peso 1,4 Kg

TECHNICAL DATA

- Md braking force:
1473 N at 7 bar
- Dynamic torque:
 $= Md \cdot (\text{disc radius in m} - 0,033) = Nm$
- Max pressure 7 bar
- Air volume 0,04 dm³
- Weight 1,4 Kg

COD. PPO/2



DATI TECNICI

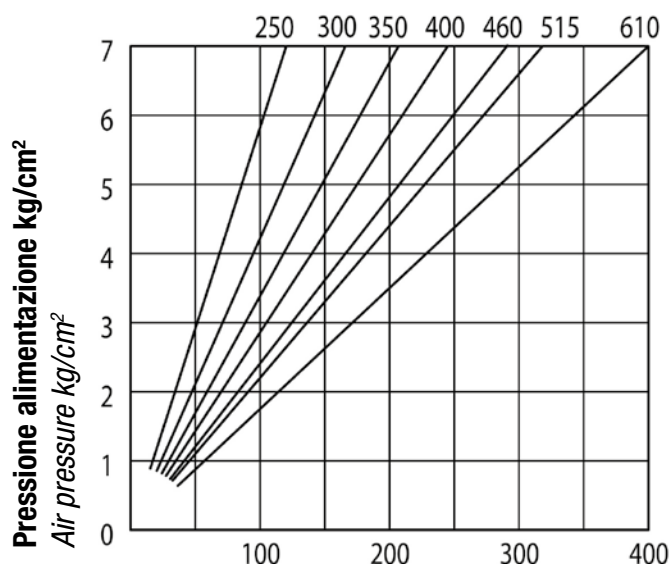
- Md forza frenante:
1473 N a 7 bar
- Coppia dinamica:
 $= Md \cdot (\text{raggio disco in m} - 0,033) = Nm$
- Pressione max 7 bar
- Volume aria 0,02 dm³
- Peso 0,9 Kg

TECHNICAL DATA

- Md braking force:
1473 N at 7 bar
- Dynamic torque:
 $= Md \cdot (\text{disc radius in m} - 0,033) = Nm$
- Max pressure 7 bar
- Air volume 0,02 dm³
- Weight 0,9 Kg

Diametro del disco mm

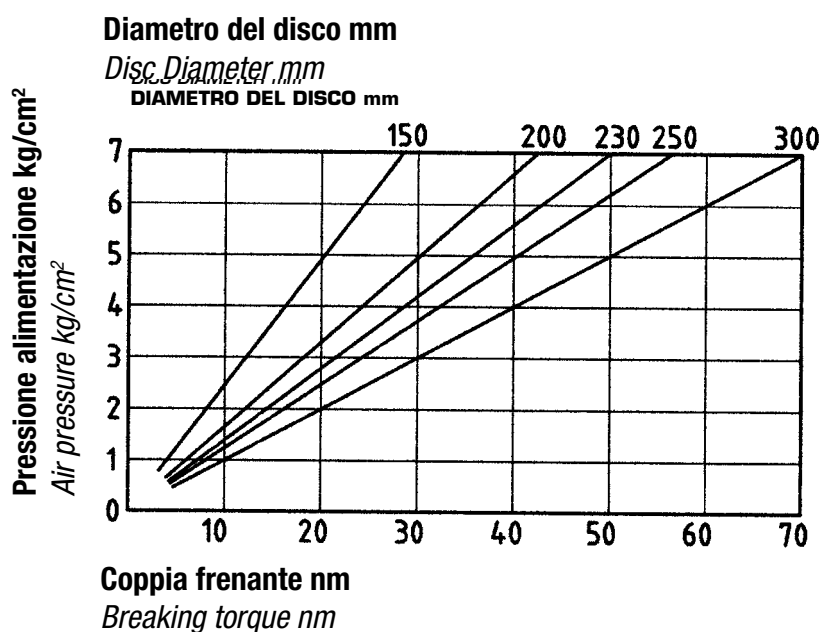
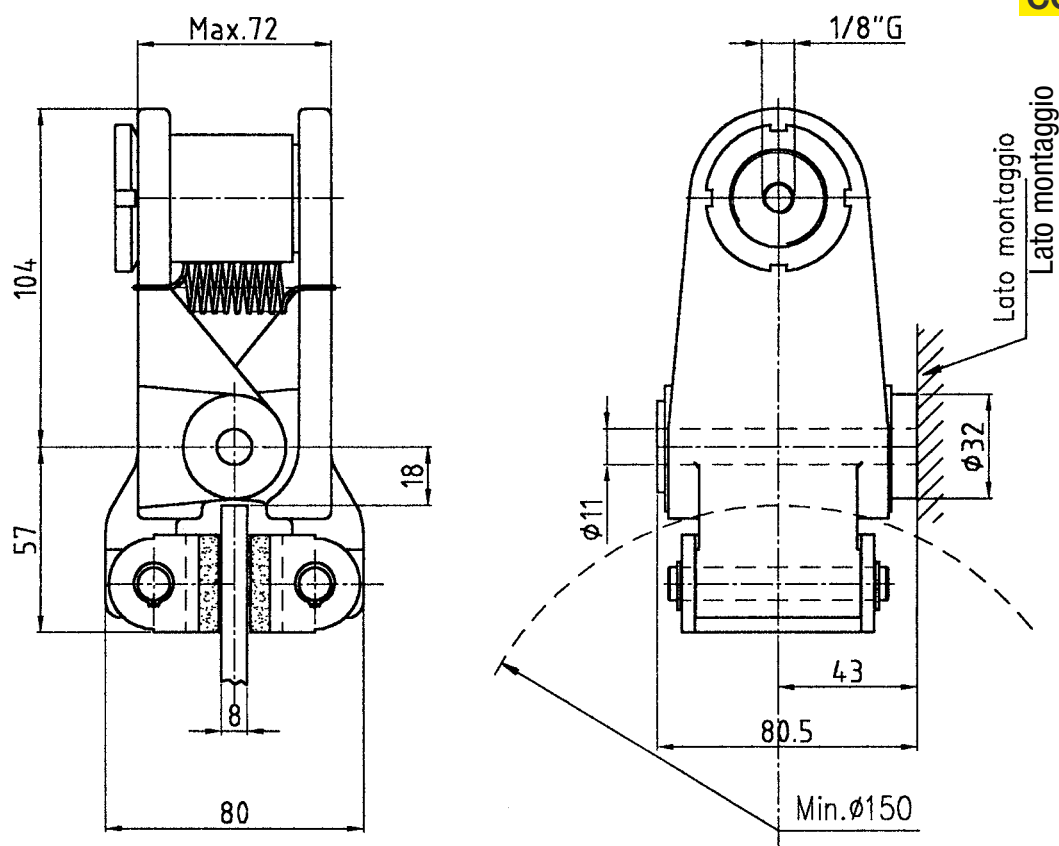
Disc Diameter mm



Coppia frenante nm

Braking torque nm

COD. PPO



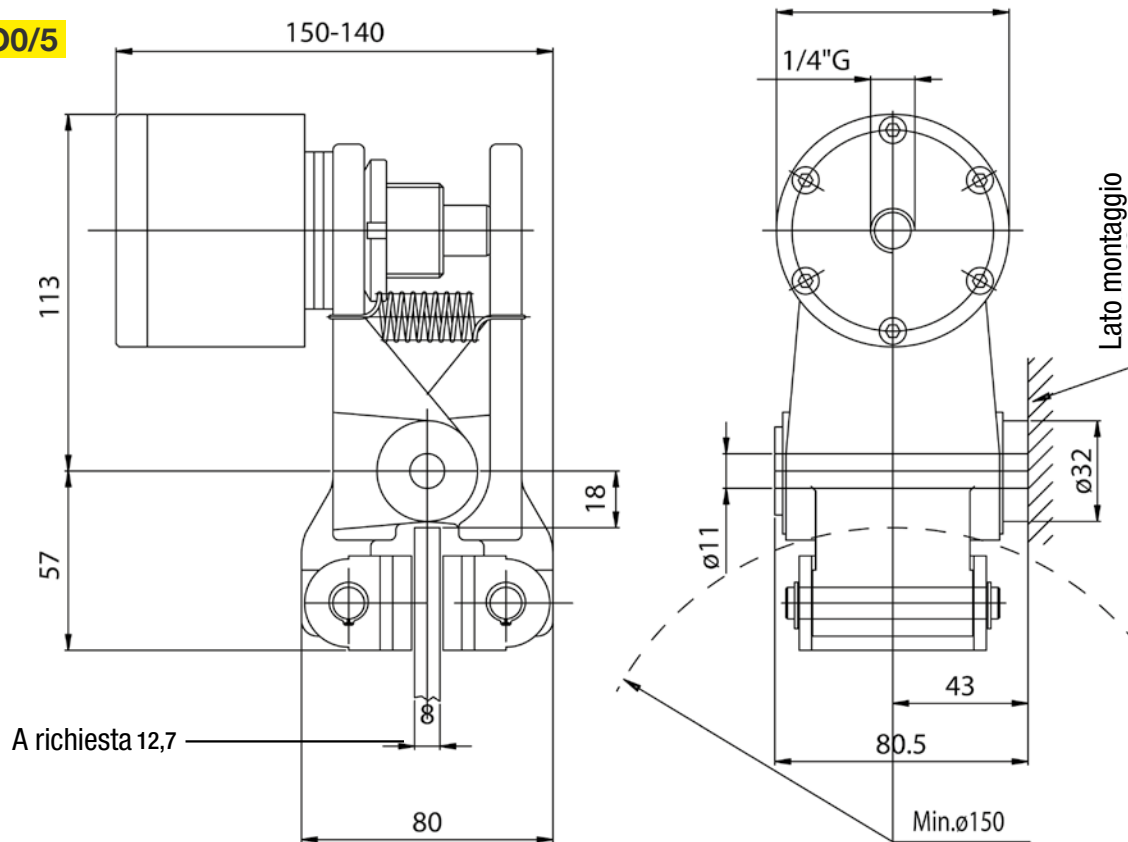
DATI TECNICI

- Md forza frenante:
560 N a 7 bar
- Coppia dinamica:
= $Md \cdot (\text{raggio disco in m} - 0,025) = Nm$
- Pressione max 7 bar
- Volume aria 0,002 dm³
- Peso 2,3 Kg

TECHNICAL DATA

- *Md braking force:*
560 N at 7 bar
- *Dynamic torque:*
= $Md \cdot (\text{disc radius in m} - 0,025) = Nm$
- *Max pressure 7 bar*
- *Air volume 0,002 dm³*
- *Weight 2,3 Kg*

COD. PPO0/5

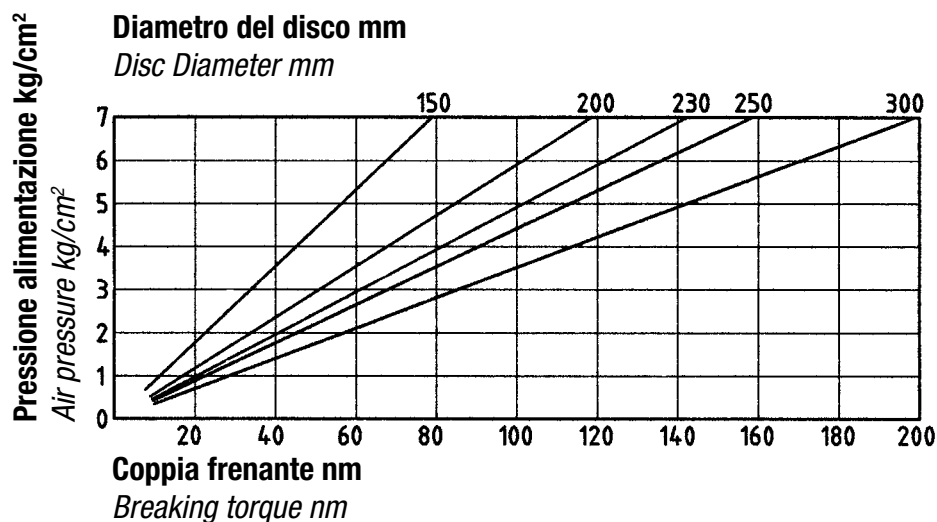


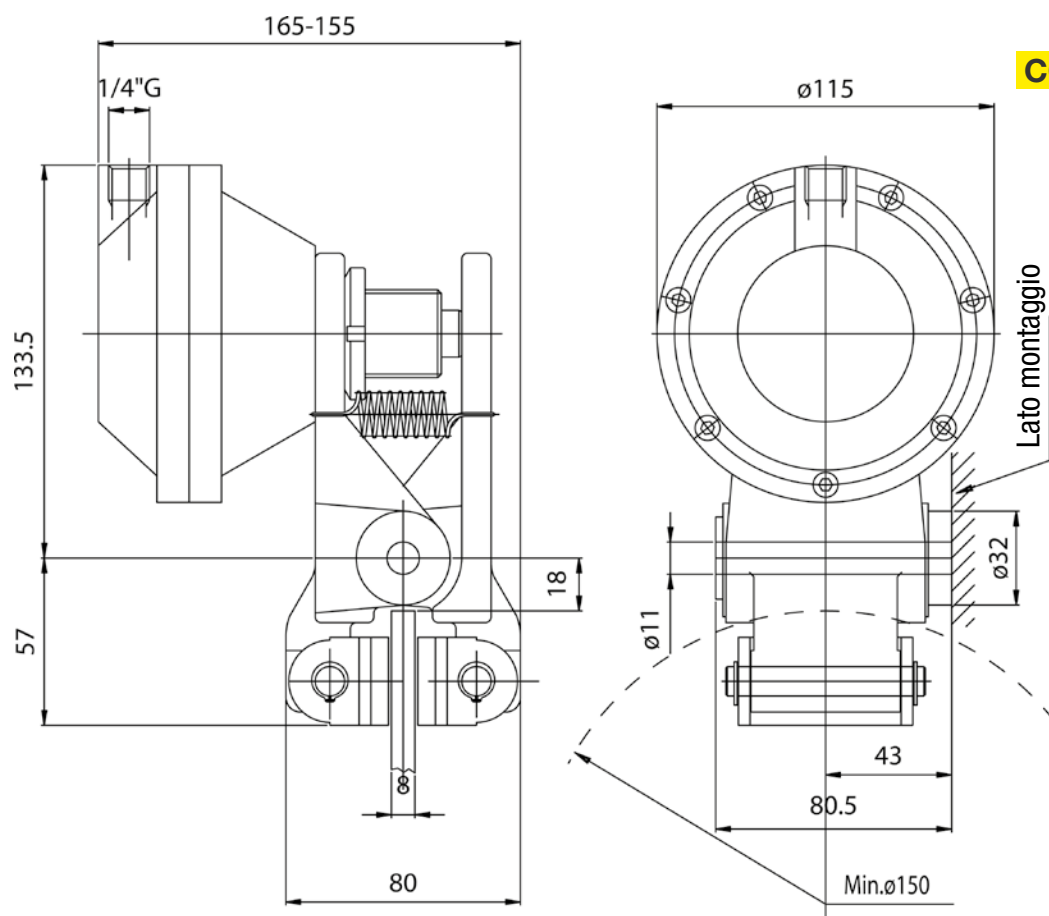
DATI TECNICI

- Md forza frenante:
1579 N a 7 bar
- Coppia dinamica:
 $= Md \cdot (\text{raggio disco in m} - 0,025) = Nm$
- Pressione max 7 bar
- Volume aria 0,007 dm³
- Peso 3,1 Kg

TECHNICAL DATA

- Md braking force:
1579 N at 7 bar
- Dynamic torque:
 $= Md \cdot (\text{disc radius in m} - 0,025) = Nm$
- Max pressure 7 bar
- Air volume 0,007 dm³
- Weight 3,1 Kg





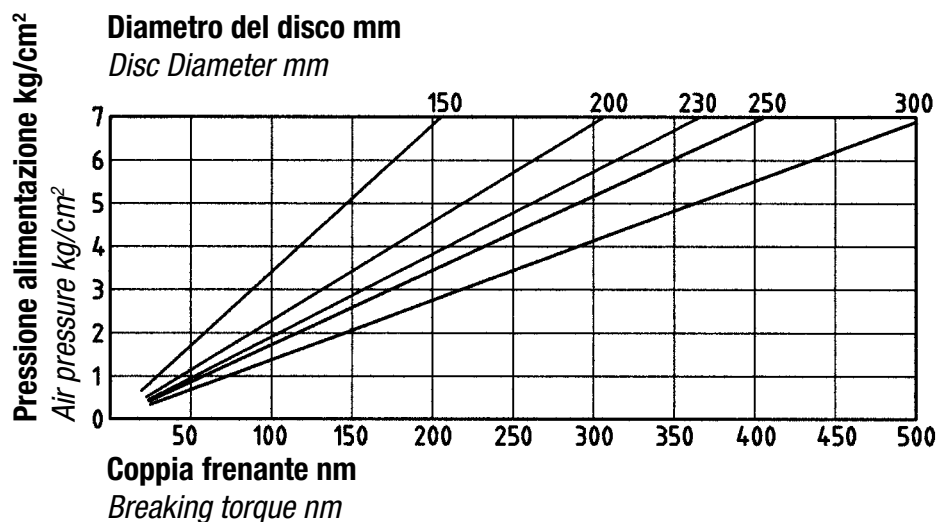
COD. PPO0/6

DATI TECNICI

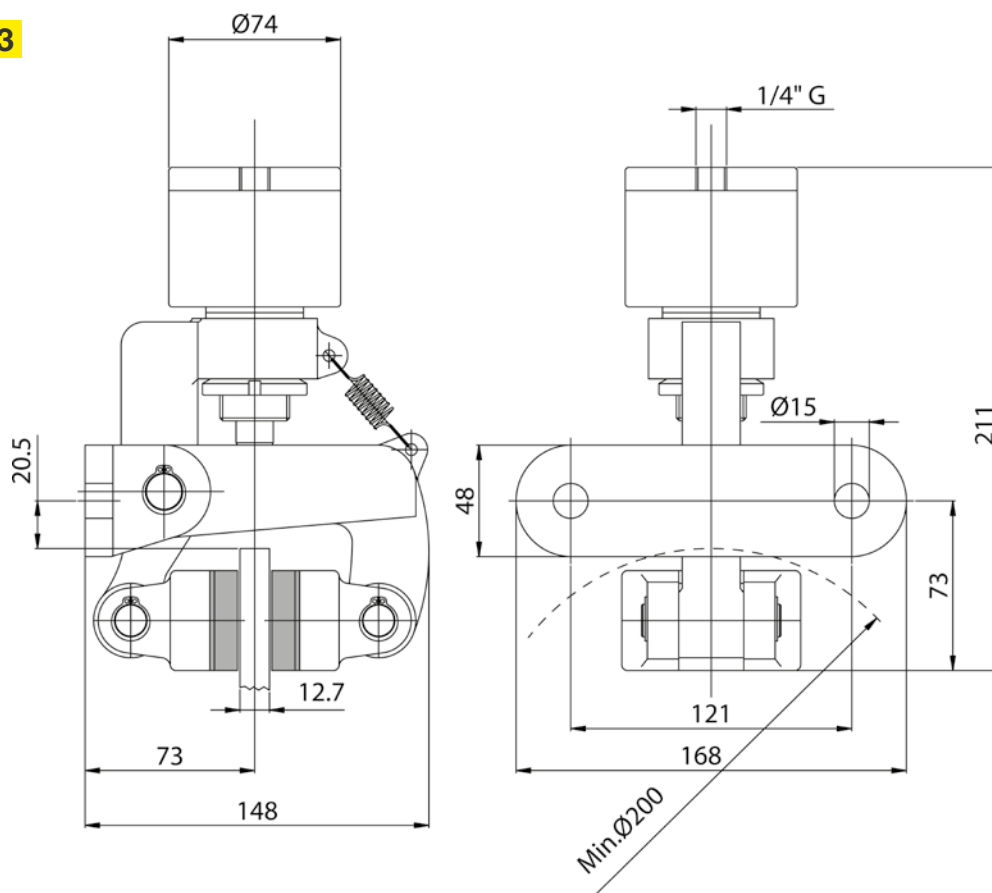
- Md forza frenante:
4025 N a 7 bar
- Coppia dinamica:
 $= Md \cdot (\text{raggio disco in m } -0,025) = Nm$
- Pressione max 7 bar
- Volume aria 0,12 dm³
- Peso 4,4 Kg

TECHNICAL DATA

- *Md braking force:*
4025 N at 7 bar
- *Dynamic torque:*
 $= Md \cdot (\text{disc radius in m } -0,025) = Nm$
- *Max pressure 7 bar*
- *Air volume 0,12 dm³*
- *Weight 4,4 Kg*



COD. PP/03

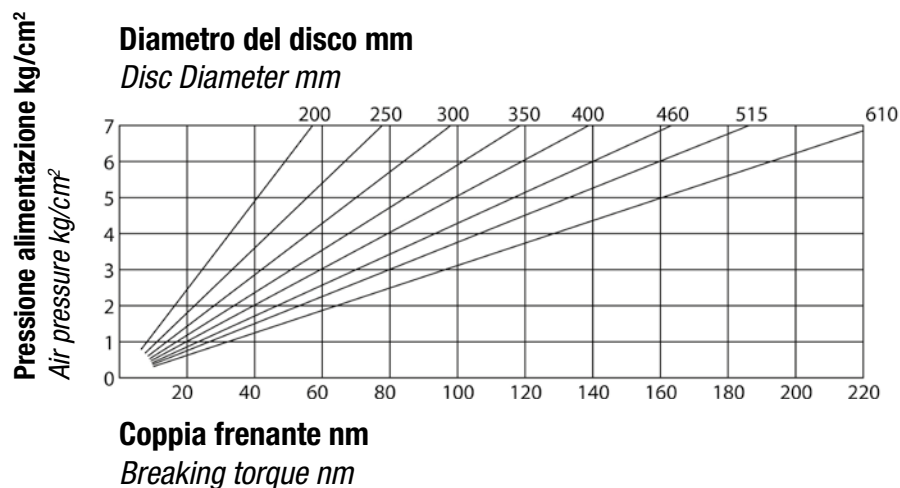


DATI TECNICI

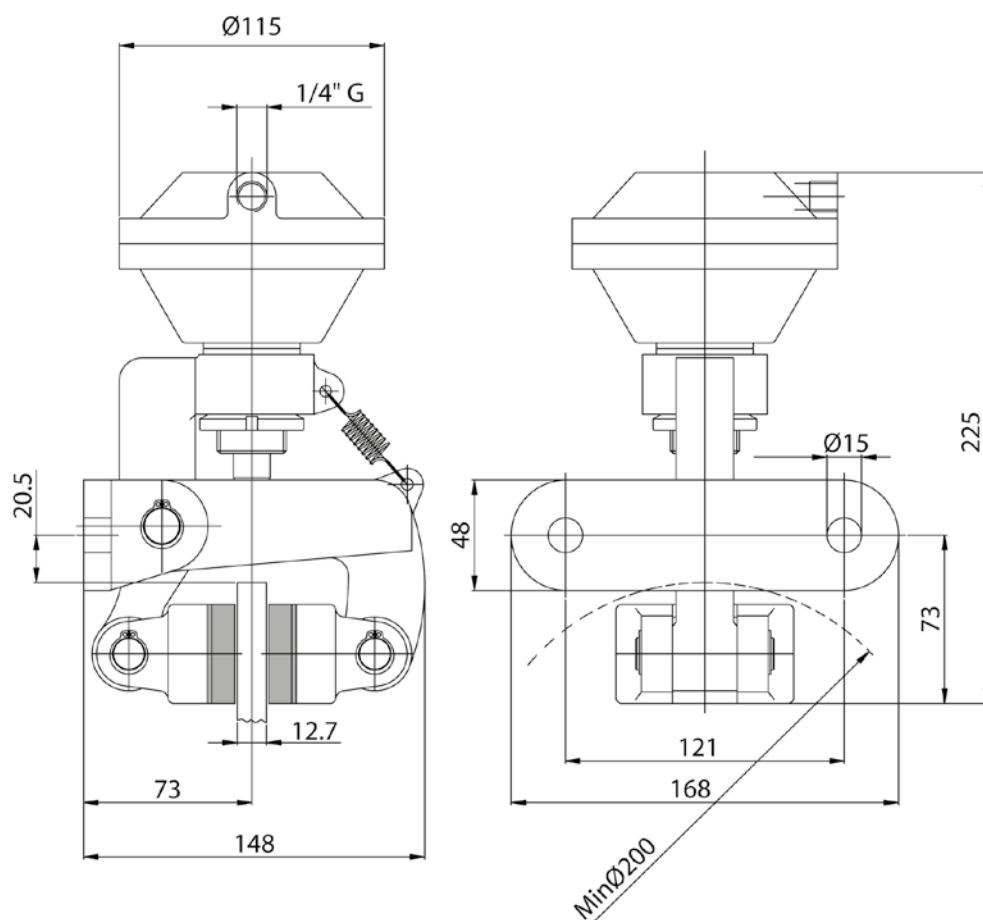
- Md forza frenante:
816 N a 7 bar
- Coppia dinamica:
 $= Md \cdot (\text{raggio disco in m} - 0,032) = Nm$
- Pressione max 7 bar
- Volume aria 0,007 dm³
- Peso 5,1 Kg

TECHNICAL DATA

- *Md braking force:*
816 N at 7 bar
- *Dynamic torque:*
 $= Md \cdot (\text{disc radius in m} - 0,032) = Nm$
- *Max pressure 7 bar*
- *Air volume 0,007 dm³*
- *Weight 5,1 Kg*



COD. PPO/1

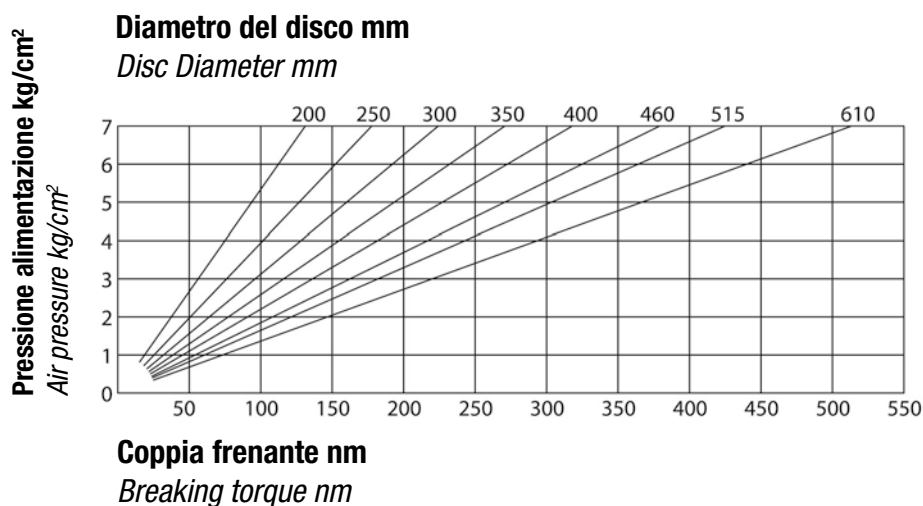


DATI TECNICI

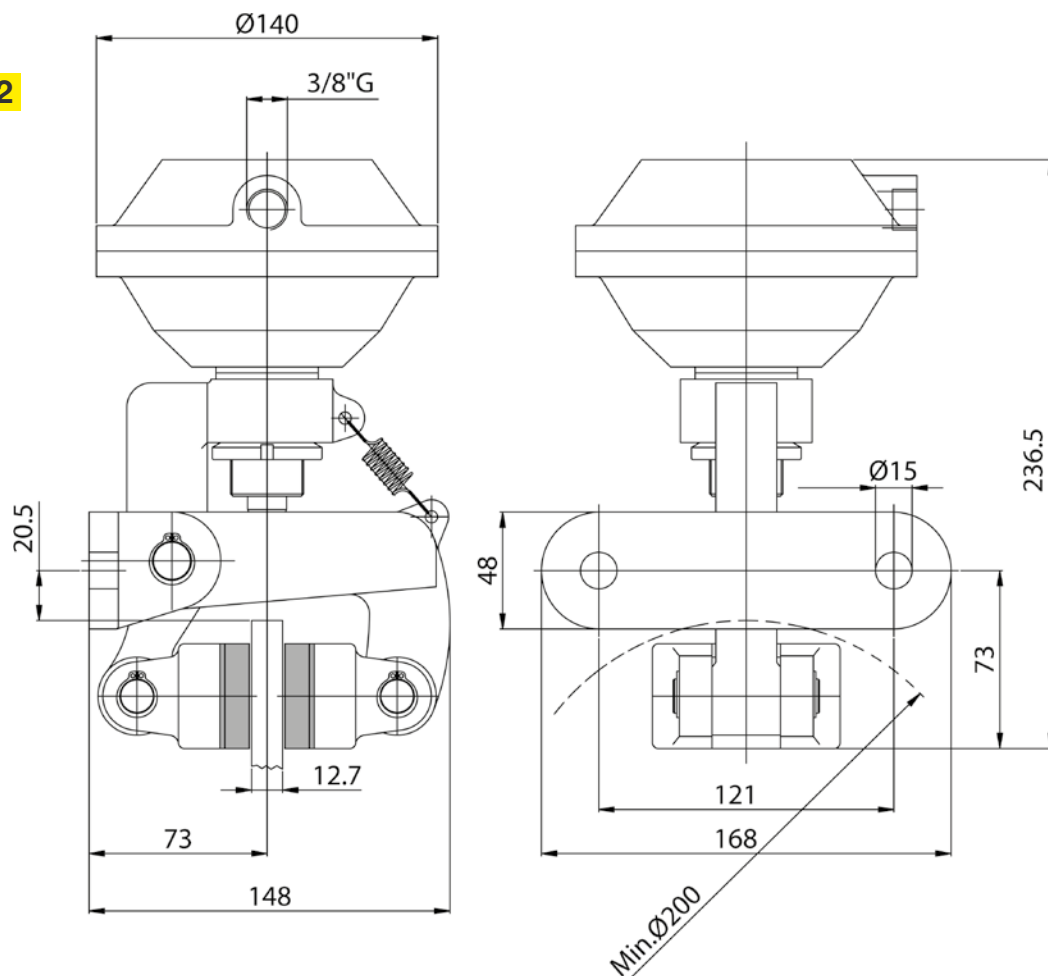
- Md forza frenante:
1866 N a 7 bar
- Coppia dinamica:
 $= Md \cdot (\text{raggio disco in m} - 0,032) = Nm$
- Pressione max 7 bar
- Volume aria 0,12 dm³
- Peso 6,5 Kg

TECHNICAL DATA

- Md braking force:
1866 N at 7 bar
- Dynamic torque:
 $= Md \cdot (\text{disc radius in m} - 0,032) = Nm$
- Max pressure 7 bar
- Air volume 0,12 dm³
- Weight 6,5 Kg



COD. PPO/2

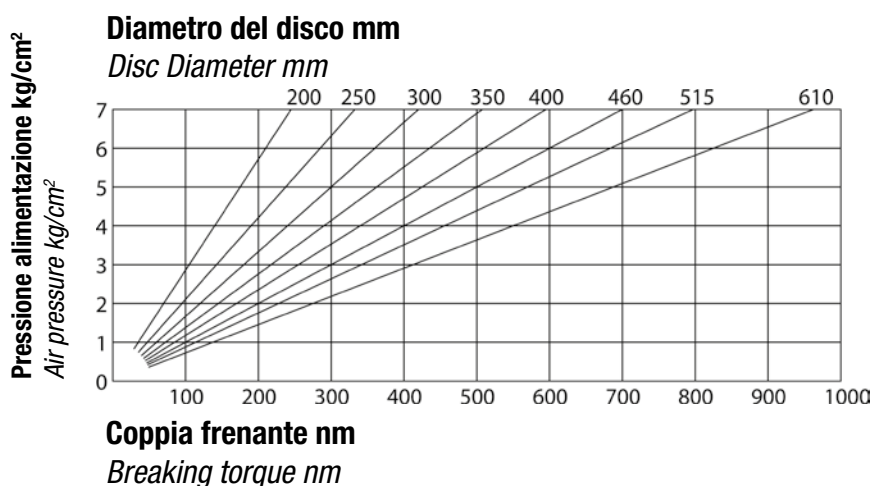


DATI TECNICI

- Md forza frenante:
3500 N a 7 bar
- Coppia dinamica:
 $= Md \cdot (\text{raggio disco in m} - 0,032) = Nm$
- Pressione max 7 bar
- Volume aria 0,25 dm³
- Peso 7,5 Kg

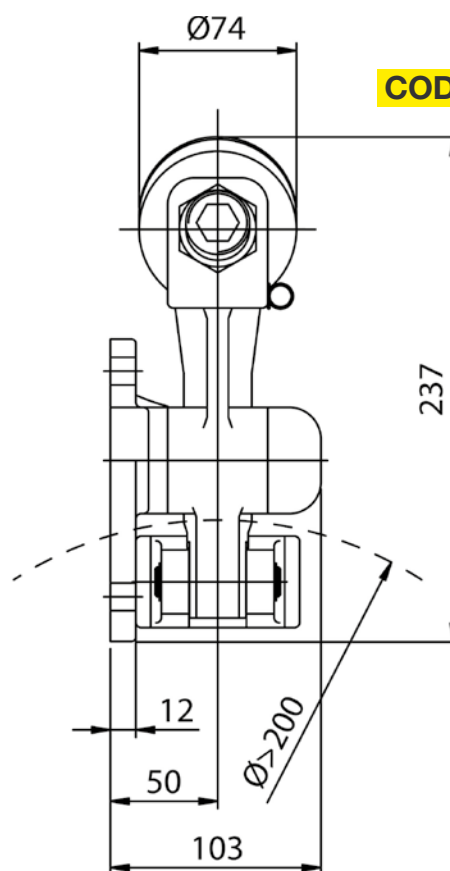
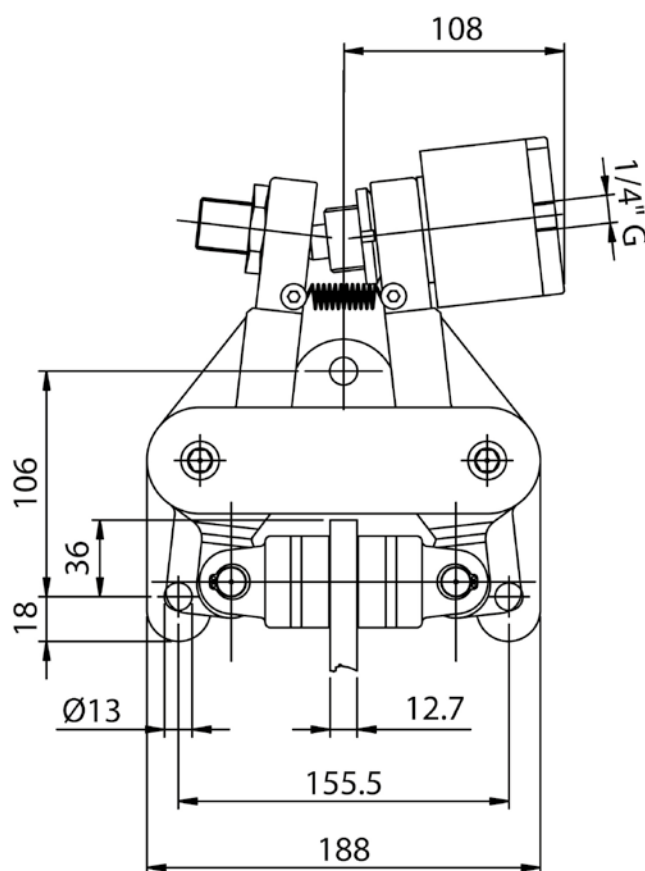
TECHNICAL DATA

- Md braking force:
3500 N at 7 bar
- Dynamic torque:
 $= Md \cdot (\text{disc radius in m} - 0,032) = Nm$
- Max pressure 7 bar
- Air volume 0,25 dm³
- Weight 7,5 Kg



PINZE PNEUMATICHE POSITIVE *PNEUMATIC CALIPER BRAKES air applied*
FRENO A PINZA - dimensioni e prestazioni
CALIPER BRAKE - dimension and performances

SPG/05



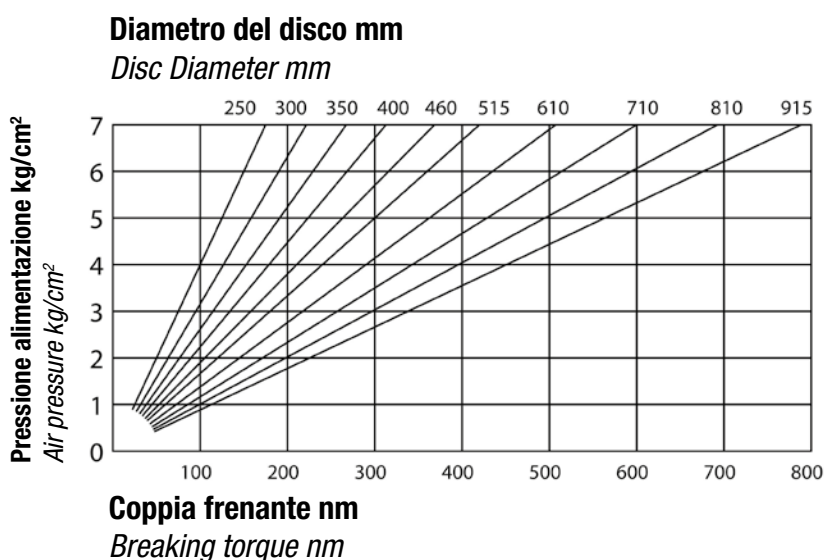
COD. PPG/05

DATI TECNICI

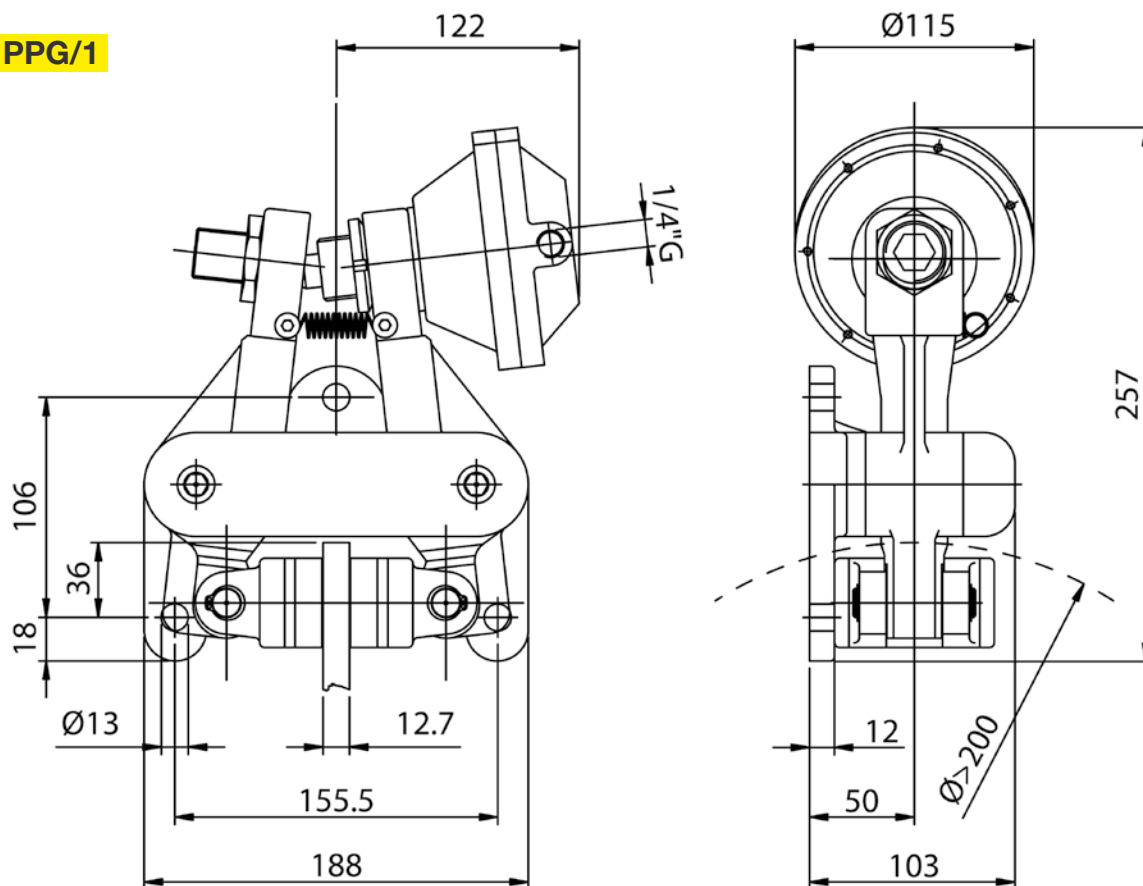
- Md forza frenante:
1843 N a 7 bar
- Coppia dinamica:
 $= Md \cdot (\text{raggio disco in m} - 0,03) = Nm$
- Pressione max 7 bar
- Volume aria 0,007 dm³
- Peso 8,9 Kg

TECHNICAL DATA

- Md braking force:
1843 N at 7 bar
- Dynamic torque:
 $= Md \cdot (\text{disc radius in m} - 0,03) = Nm$
- Max pressure 7 bar
- Air volume 0,007 dm³
- Weight 8,9 Kg



COD. PPG/1

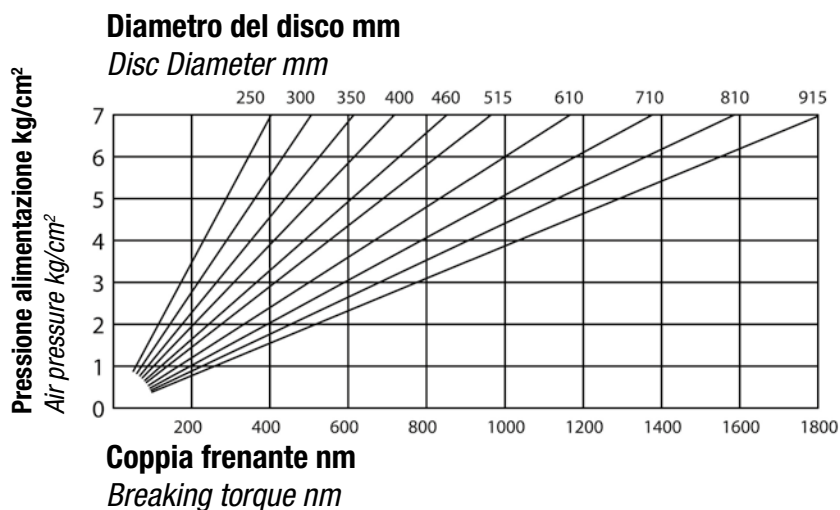


DATI TECNICI

- Md forza frenante:
4232 N a 7 bar
- Coppia dinamica:
 $= Md \cdot (\text{raggio disco in m} - 0,03) = Nm$
- Pressione max 7 bar
- Volume aria 0,12 dm³
- Peso 10,2 Kg

TECHNICAL DATA

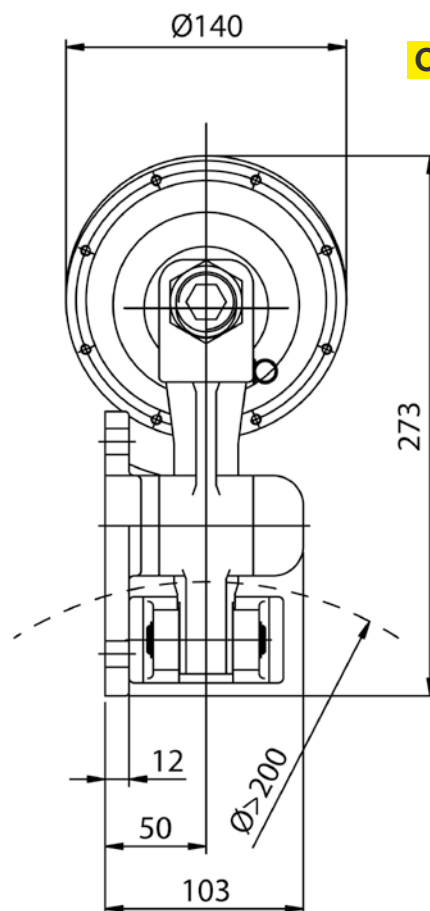
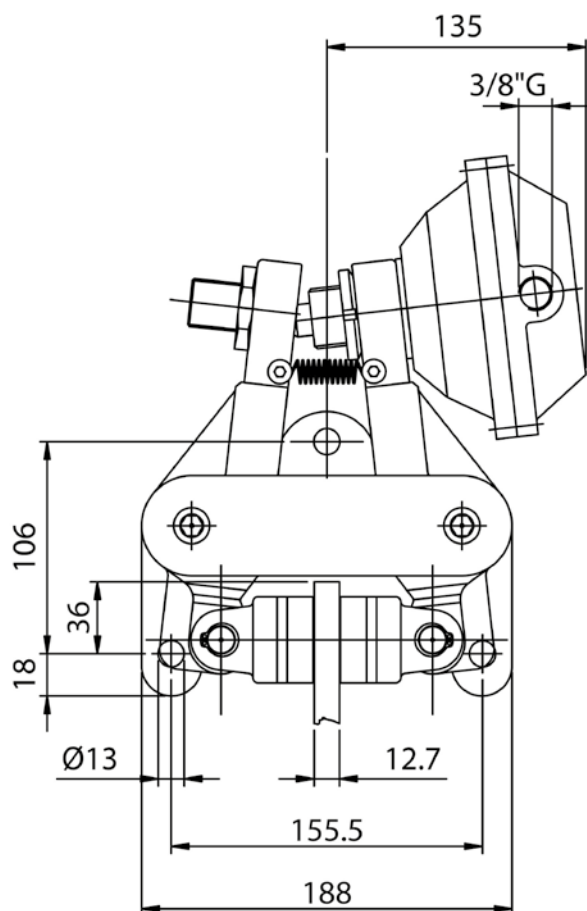
- Md braking force:
4232 N at 7 bar
- Dynamic torque:
 $= Md \cdot (\text{disc radius in m} - 0,03) = Nm$
- Max pressure 7 bar
- Air volume 0,12 dm³
- Weight 10,2 Kg



PINZE PNEUMATICHE POSITIVE *PNEUMATIC CALIPER BRAKES* *air applied*
FRENO A PINZA - dimensioni e prestazioni
CALIPER BRAKE - dimension and performances

SPG/2

COD. PPG/2

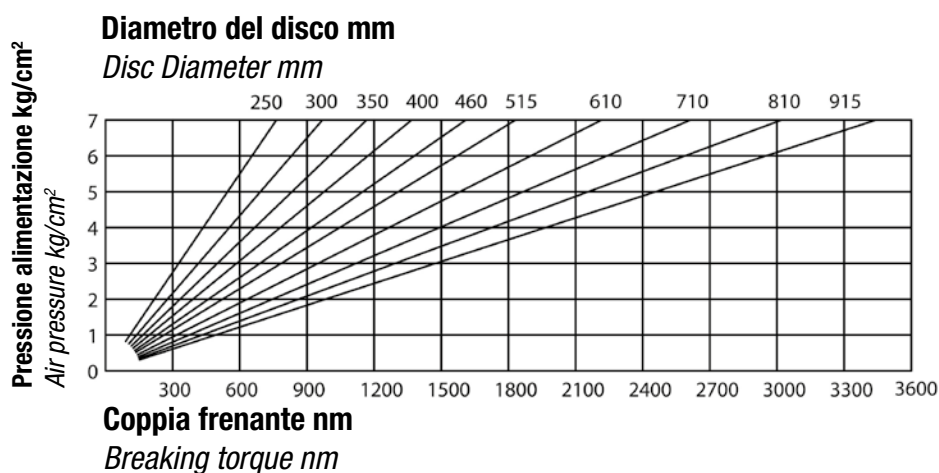


DATI TECNICI

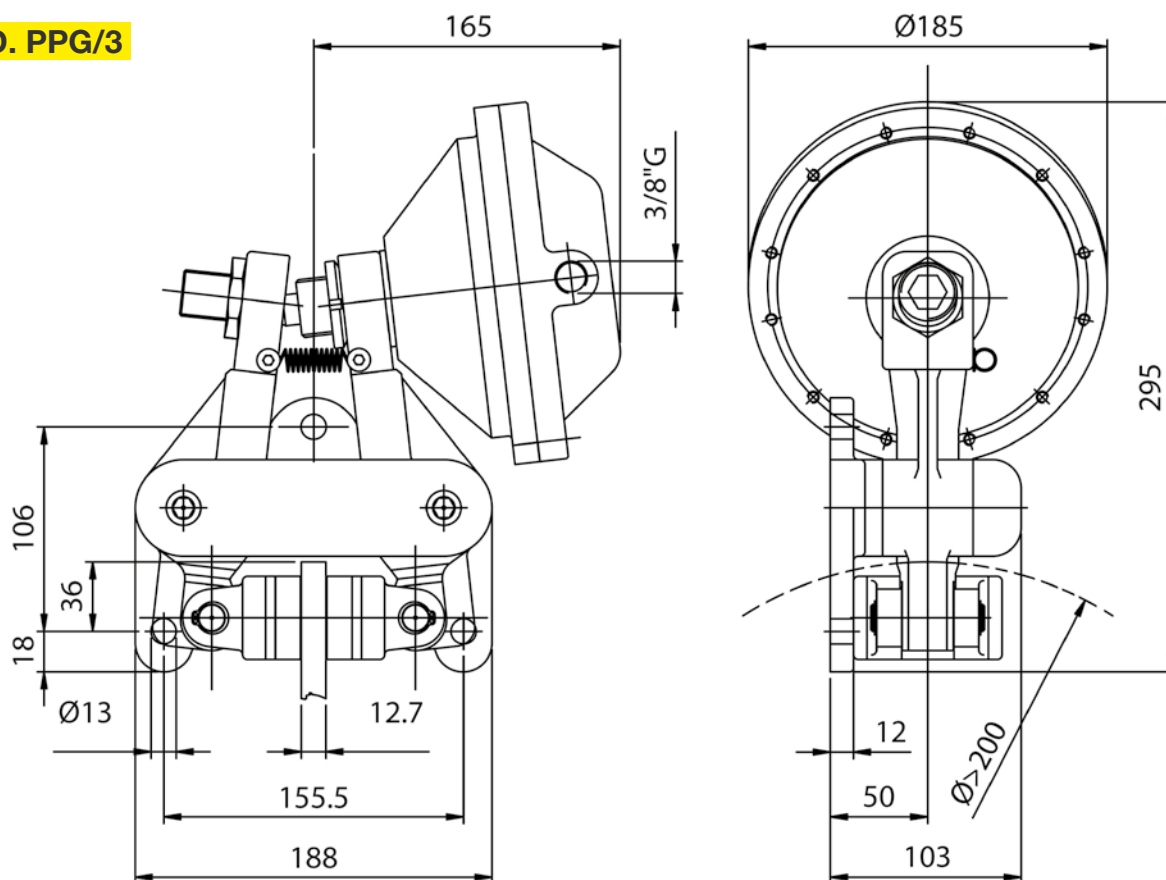
- Md forza frenante:
1843 N a 7 bar
- Coppia dinamica:
 $= Md \cdot (\text{raggio disco in m} - 0,03) = Nm$
- Pressione max 7 bar
- Volume aria 0,007 dm³
- Peso 8,9 Kg

TECHNICAL DATA

- *Md braking force:*
1843 N at 7 bar
- *Dynamic torque:*
 $= Md \cdot (\text{disc radius in m} - 0,03) = Nm$
- *Max pressure 7 bar*
- *Air volume 0,007 dm³*
- *Weight 8,9 Kg*



COD. PPG/3

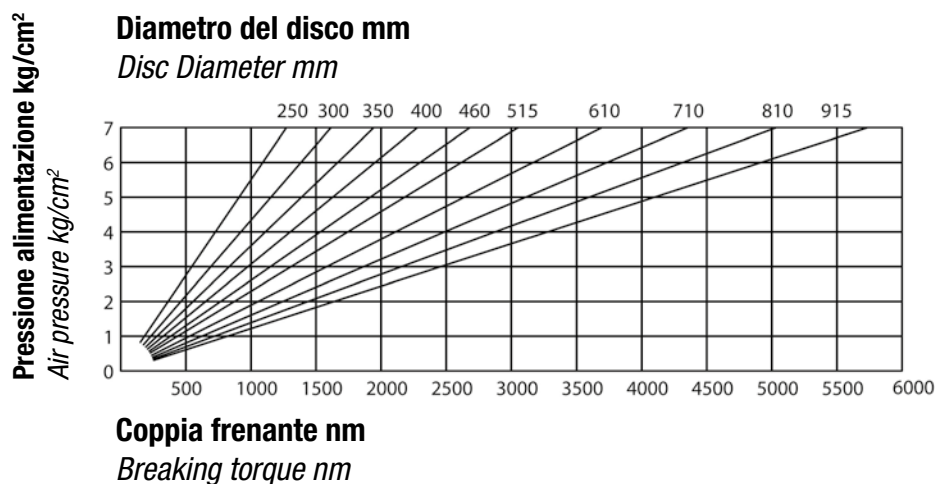


DATI TECNICI

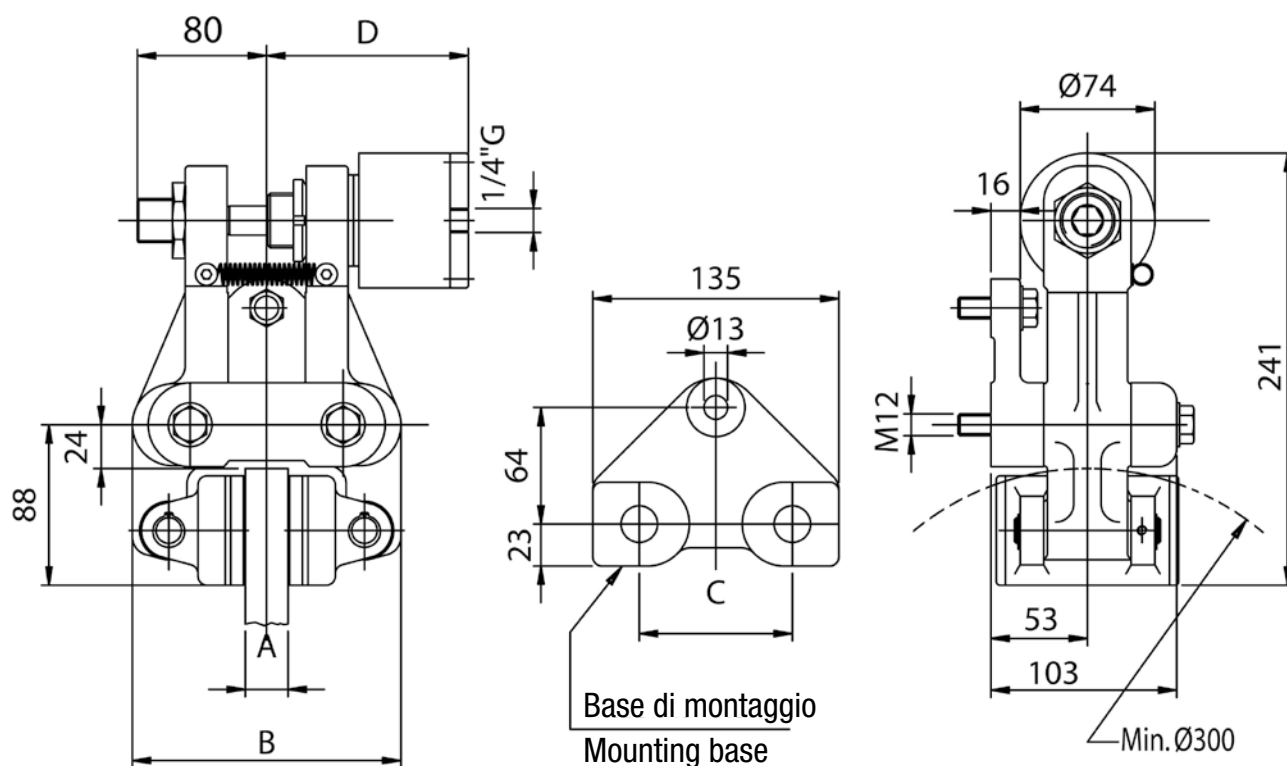
- Md forza frenante:
13416 N a 7 bar
- Coppia dinamica:
 $= Md \cdot (\text{raggio disco in m} - 0,03) = Nm$
- Pressione max 7 bar
- Volume aria 0,4 dm³
- Peso 15 Kg

TECHNICAL DATA

- Md braking force:
13416 N at 7 bar
- Dynamic torque:
 $= Md \cdot (\text{disc radius in m} - 0,03) = Nm$
- Max pressure 7 bar
- Air volume 0,4 dm³
- Weight 15 Kg



COD. PPX/05



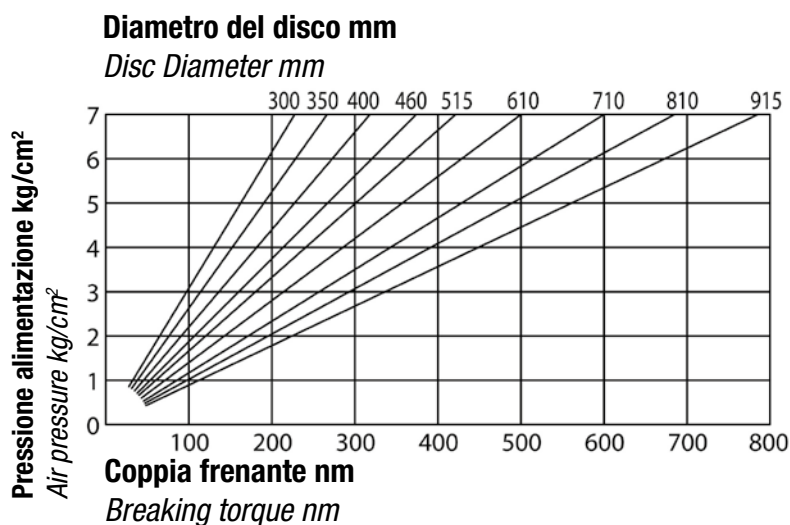
A	12.7	25.4	30	40
B	142	155	160	170
C	75	84	75	84
D	107	107	116	125

DATI TECNICI

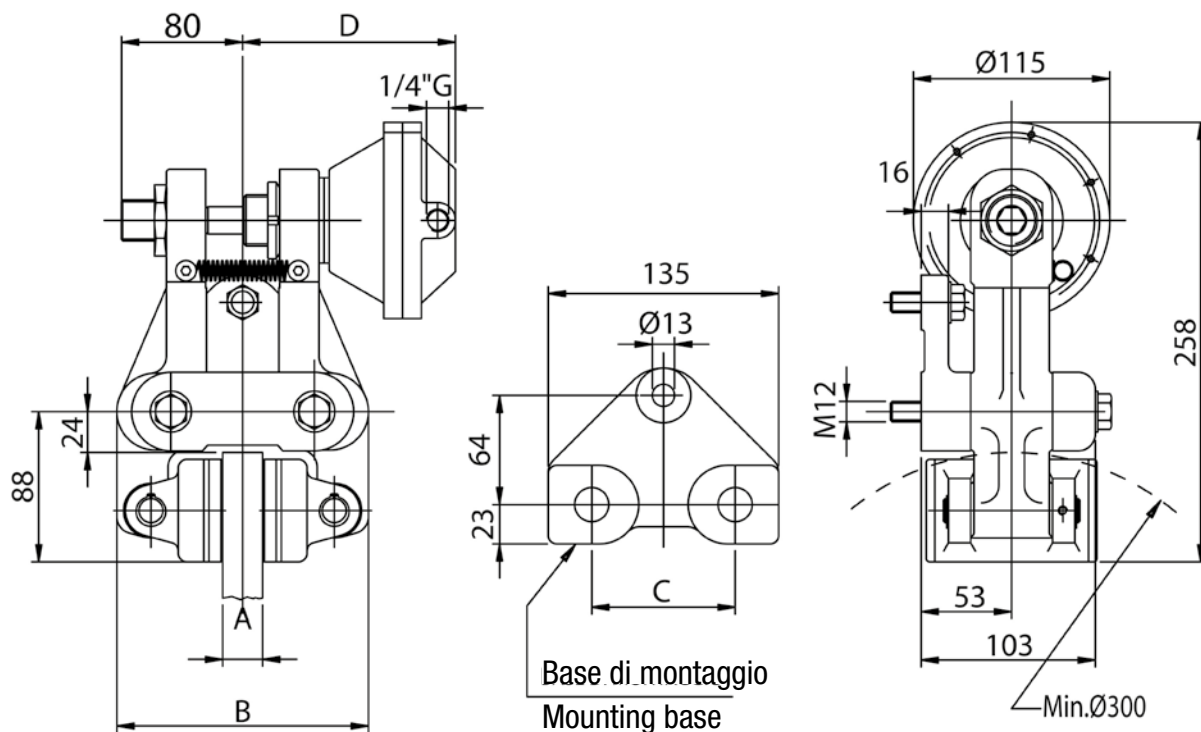
- Md forza frenante:
1843 N a 7 bar
- Coppia dinamica:
 $= Md \cdot (\text{raggio disco in m} - 0,033) = Nm$
- Pressione max 7 bar
- Volume aria 0,007 dm³
- Peso 9,3 Kg

TECHNICAL DATA

- Md braking force:
1843 N at 7 bar
- Dynamic torque:
 $= Md \cdot (\text{disc radius in m} - 0,033) = Nm$
- Max pressure 7 bar
- Air volume 0,007 dm³
- Weight 9,3 Kg



COD. PPX1



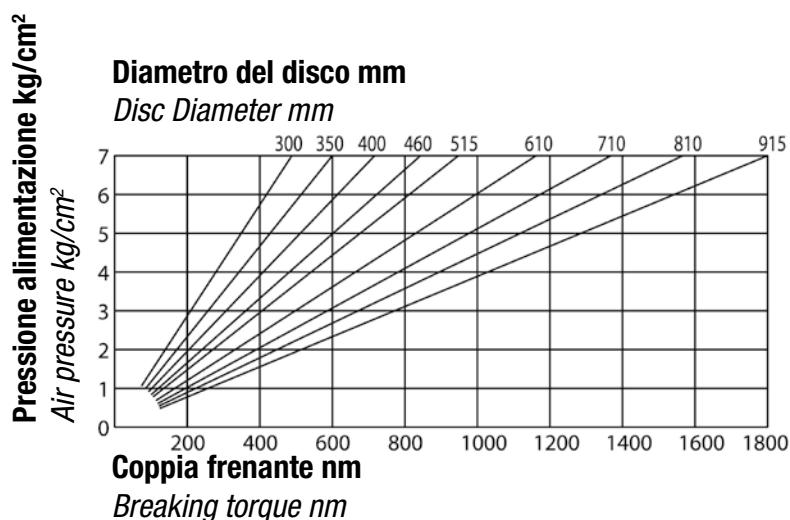
A	12.7	25.4	30	40
B	142	155	160	170
C	75	84	75	84
D	135	135	146	155

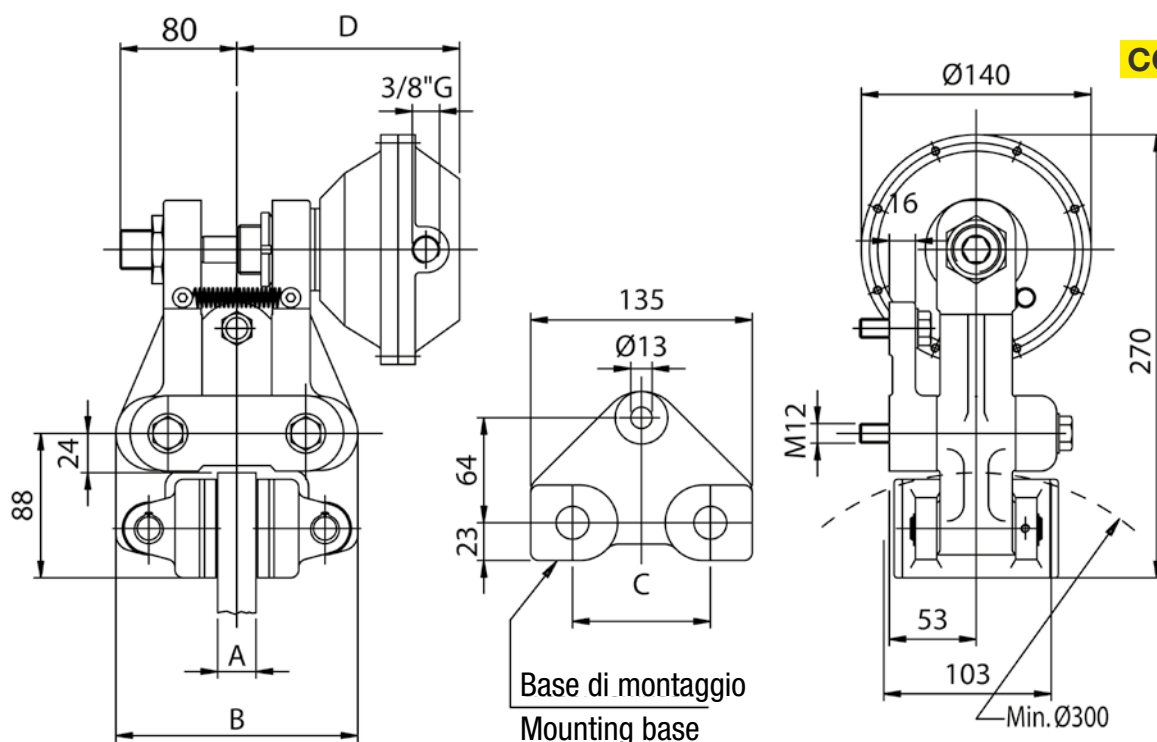
DATI TECNICI

- Md forza frenante:
4232 N a 7 bar
- Coppia dinamica:
 $= Md \cdot (\text{raggio disco in m} - 0,033) = Nm$
- Pressione max 7 bar
- Volume aria 0,12 dm³
- Peso 10,6 Kg

TECHNICAL DATA

- Md forza frenante:
4232 N a 7 bar
- Coppia dinamica:
 $= Md \cdot (\text{raggio disco in m} - 0,033) = Nm$
- Pressione max 7 bar
- Volume aria 0,12 dm³
- Peso 10,6 Kg





COD. PPX2

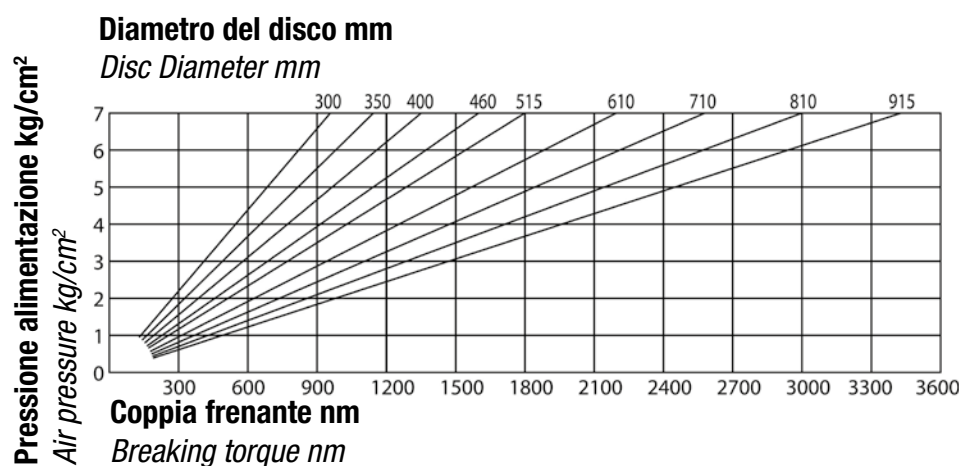
A	12.7	25.4	30	40
B	142	155	160	170
C	75	84	75	84
D	135	135	146	155

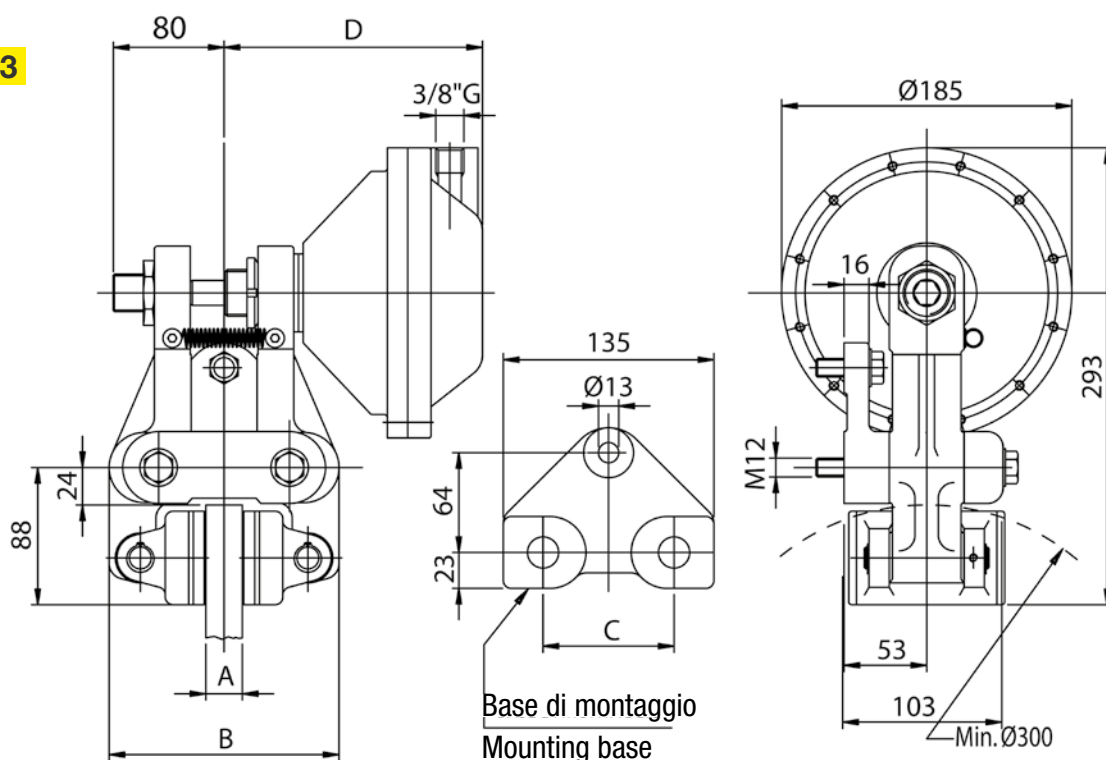
DATI TECNICI

- Md forza frenante:
8050 N a 7 bar
- Coppia dinamica:
 $= Md \cdot (\text{raggio disco in m} - 0,033) = Nm$
- Pressione max 7 bar
- Volume aria 0,25 dm³
- Peso 11,7 Kg

TECHNICAL DATA

- *Md braking force:*
8050 N at 7 bar
- *Dynamic torque:*
 $= Md \cdot (\text{disc radius in m} - 0,033) = Nm$
- *Max pressure 7 bar*
- *Air volume 0,25 dm³*
- *Weight 11,7 Kg*



COD. PPX3

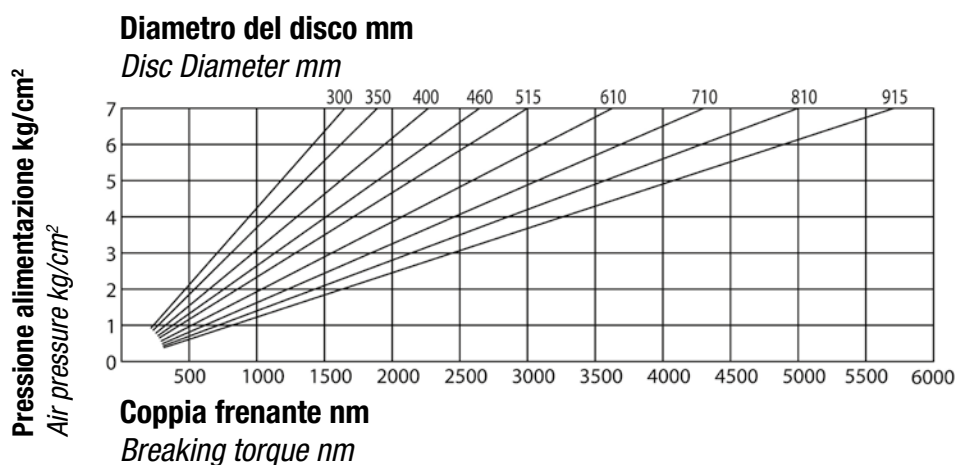
A	12.7	25.4	30	40
B	142	155	160	170
C	75	84	75	84
D	135	135	146	155

DATI TECNICI

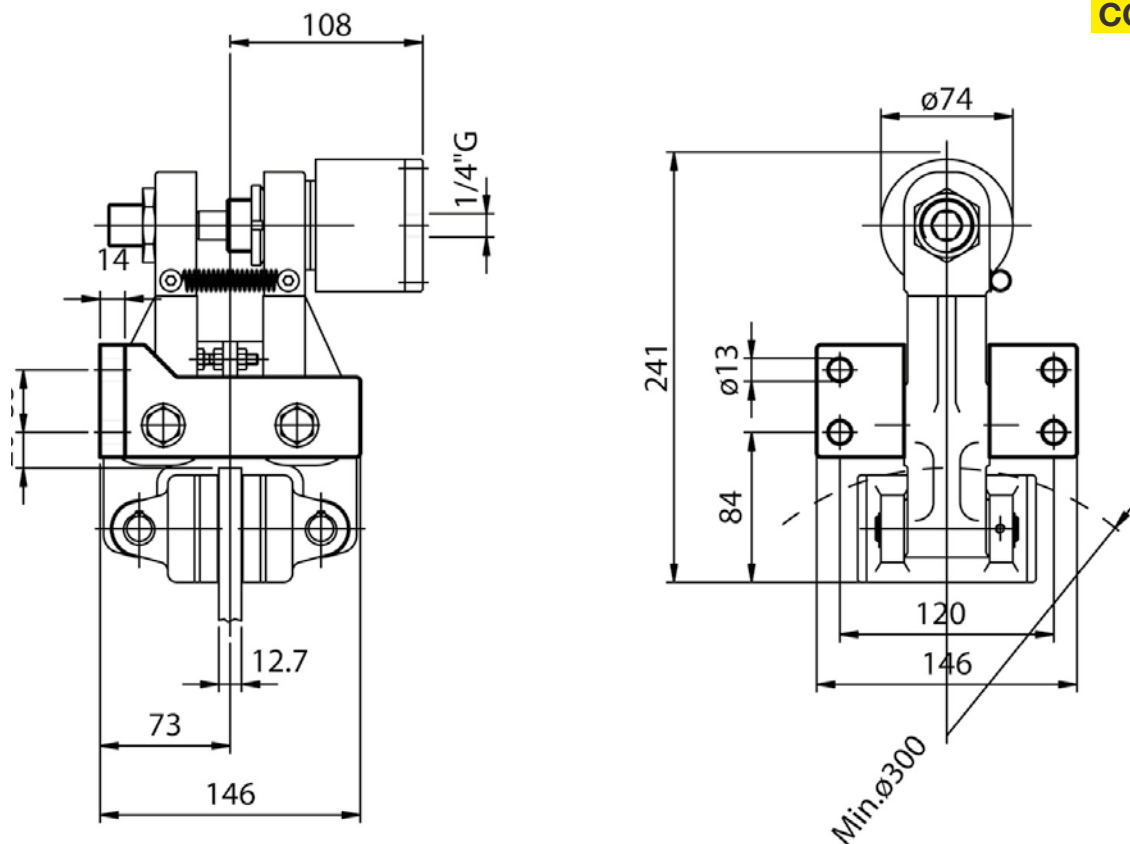
- Md forza frenante:
13416 N a 7 bar
- Coppia dinamica:
= $M_d \cdot (\text{raggio disco in m} - 0,033) = \text{Nm}$
- Pressione max 7 bar
- Volume aria 0,4 dm³
- Peso 15,4 Kg

TECHNICAL DATA

- *Md braking force:*
13416 N at 7 bar
- *Dynamic torque:*
 $= Md \cdot (\text{disc radius in m} - 0,033) = Nm$
- *Max pressure 7 bar*
- *Air volume 0,4 dm3*
- *Weight 15,4 Kg*



COD. PPH1

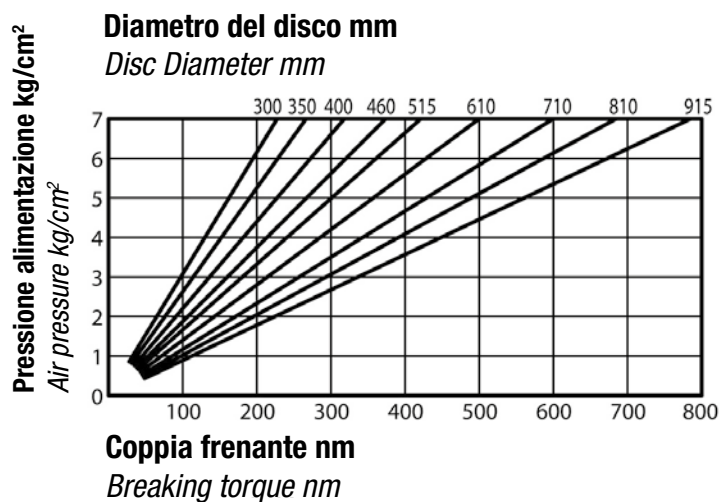


DATI TECNICI

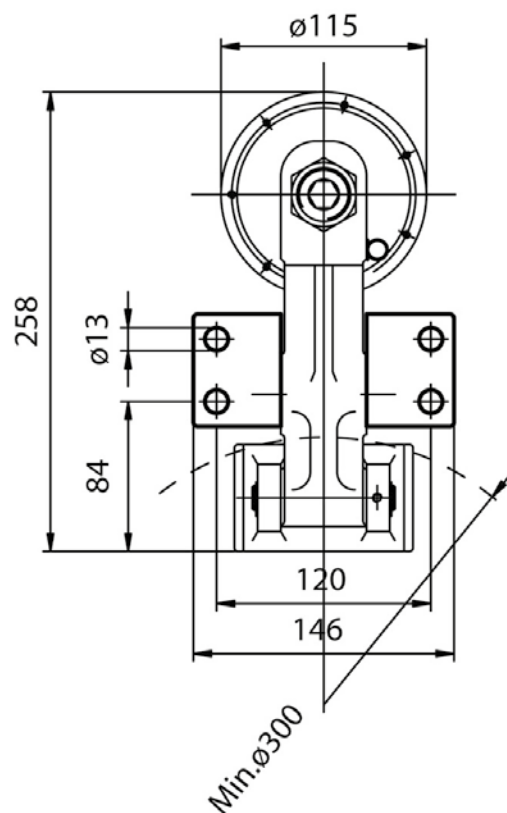
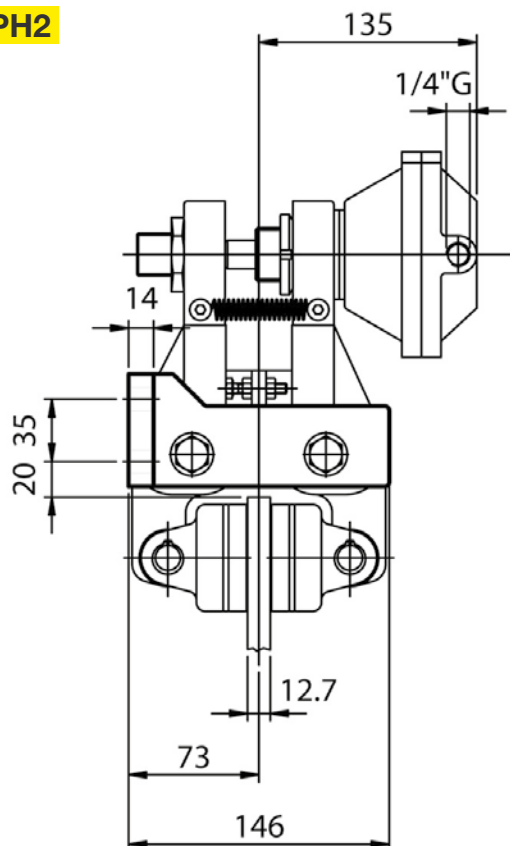
- Md forza frenante:
1843 N a 7 bar
- Coppia dinamica:
 $= Md \cdot (\text{raggio disco in m} - 0,033) = Nm$
- Pressione max 7 bar
- Volume aria 0,007 dm³
- Peso 9,4 Kg

TECHNICAL DATA

- Md braking force:
1843 N at 7 bar
- Dynamic torque:
 $= Md \cdot (\text{disc radius in m} - 0,033) = Nm$
- Max pressure 7 bar
- Air volume 0,007 dm³
- Weight 9,4 Kg



COD. PPH2

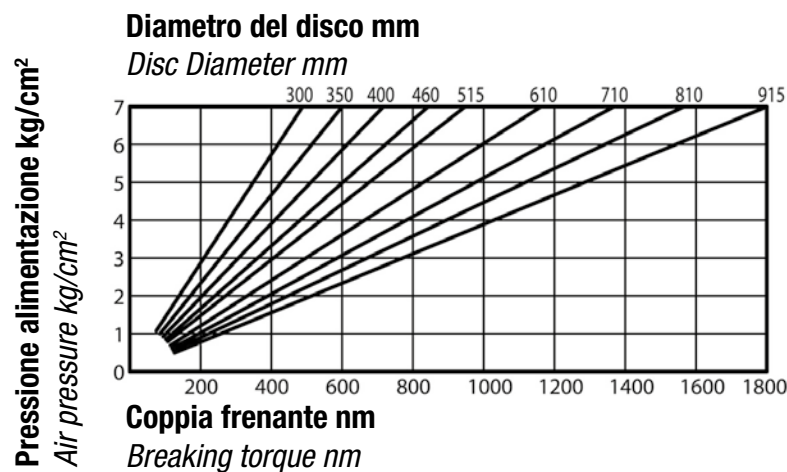


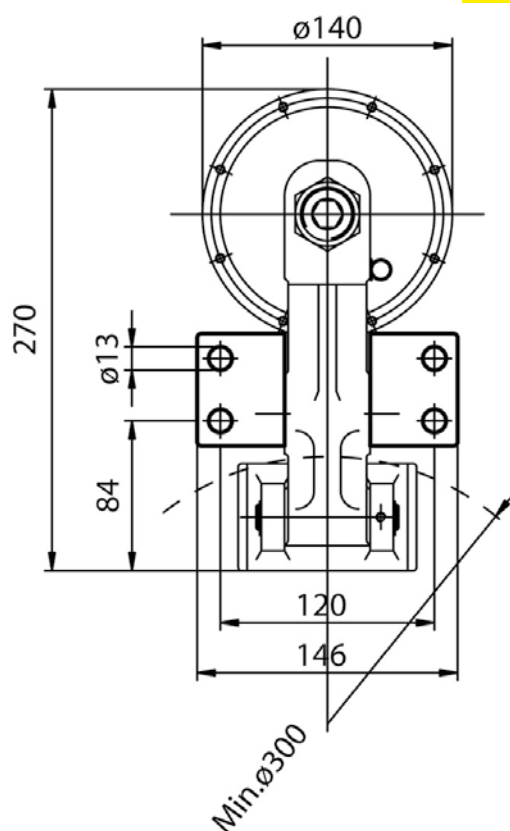
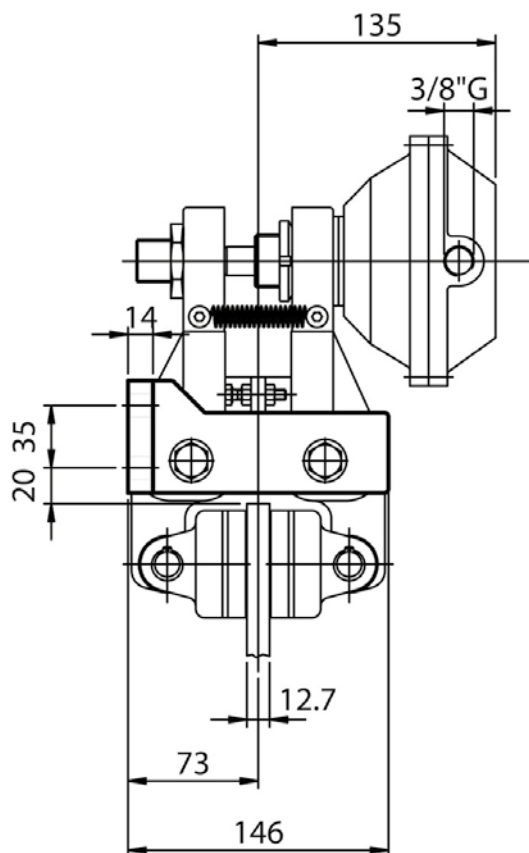
DATI TECNICI

- Md forza frenante:
4232 N a 7 bar
- Coppia dinamica:
 $= Md \cdot (\text{raggio disco in m} - 0,033) = Nm$
- Pressione max 7 bar
- Volume aria 0,12 dm³
- Peso 10,7 Kg

TECHNICAL DATA

- Md braking force:
4232 N at 7 bar
- Dynamic torque:
 $= Md \cdot (\text{disc radius in m} - 0,033) = Nm$
- Max pressure 7 bar
- Air volume 0,12 dm³
- Weight 10,7 Kg



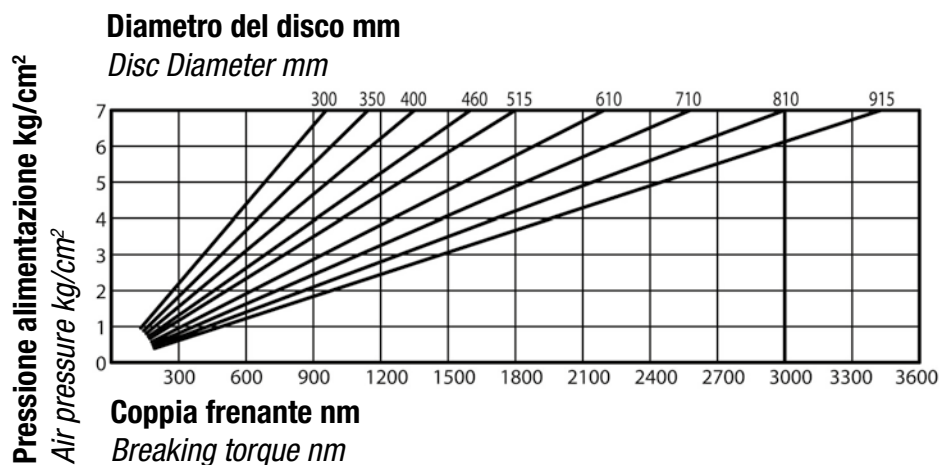
COD. PPH3

DATI TECNICI

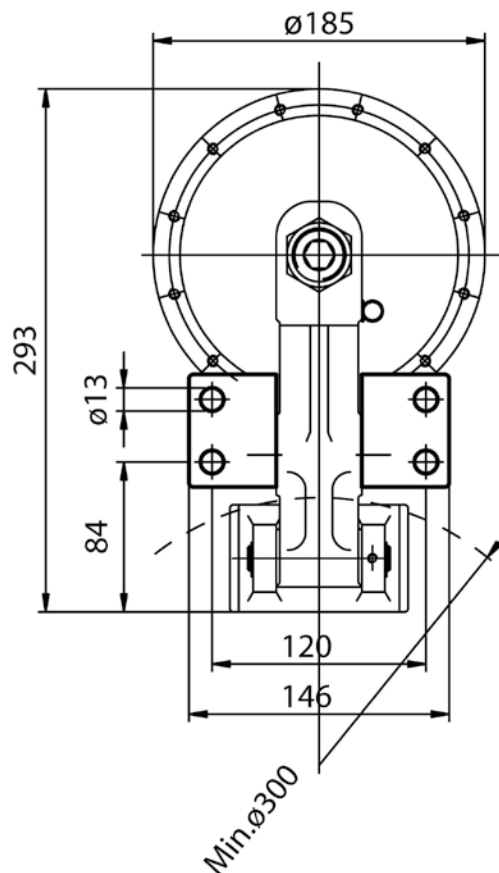
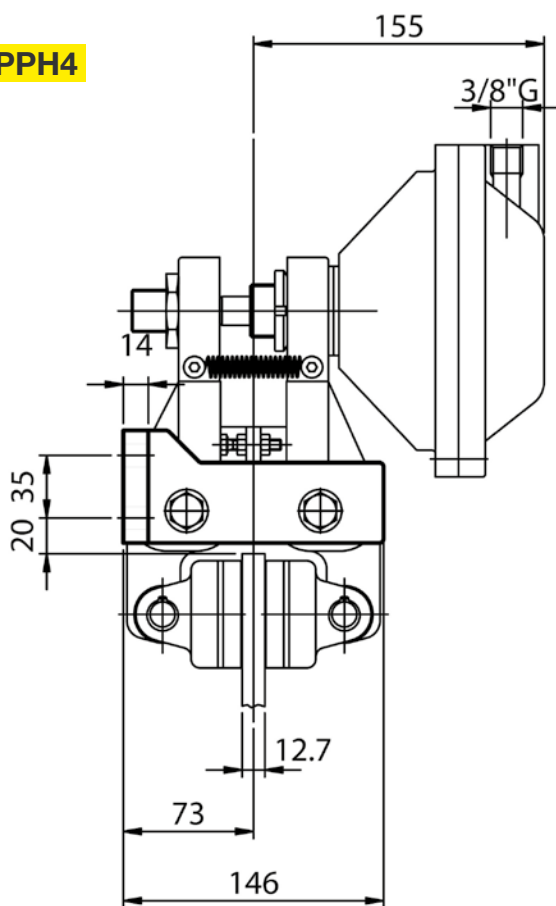
- Md forza frenante:
8050 N a 7 bar
- Coppia dinamica:
= Md · (raggio disco in m -0,033) = Nm
- Pressione max 7 bar
- Volume aria 0,25 dm3
- Peso 11,8 Kg

TECHNICAL DATA

- *Md braking force:*
8050 N at 7 bar
- *Dynamic torque:*
 $= Md \cdot (\text{disc radius in m} - 0,033) = Nm$
- *Max pressure 7 bar*
- *Air volume 0,25 dm³*
- *Weight 11,8 Kg*



COD. PPH4

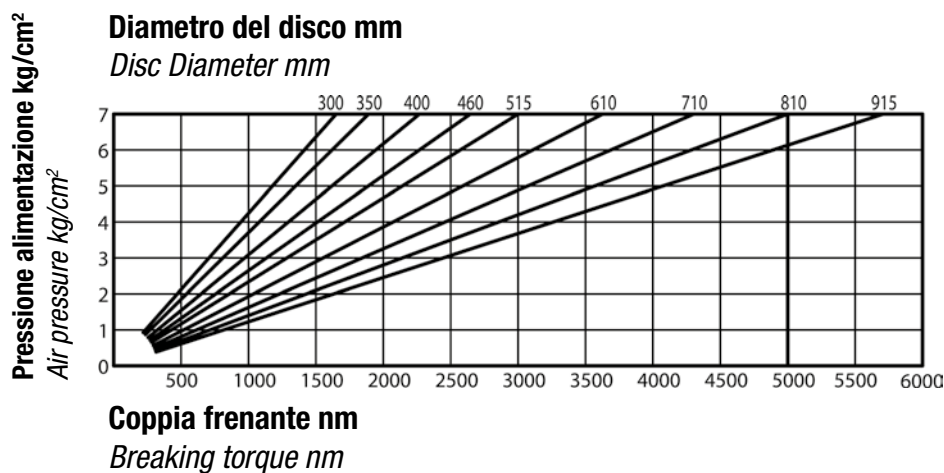


DATI TECNICI

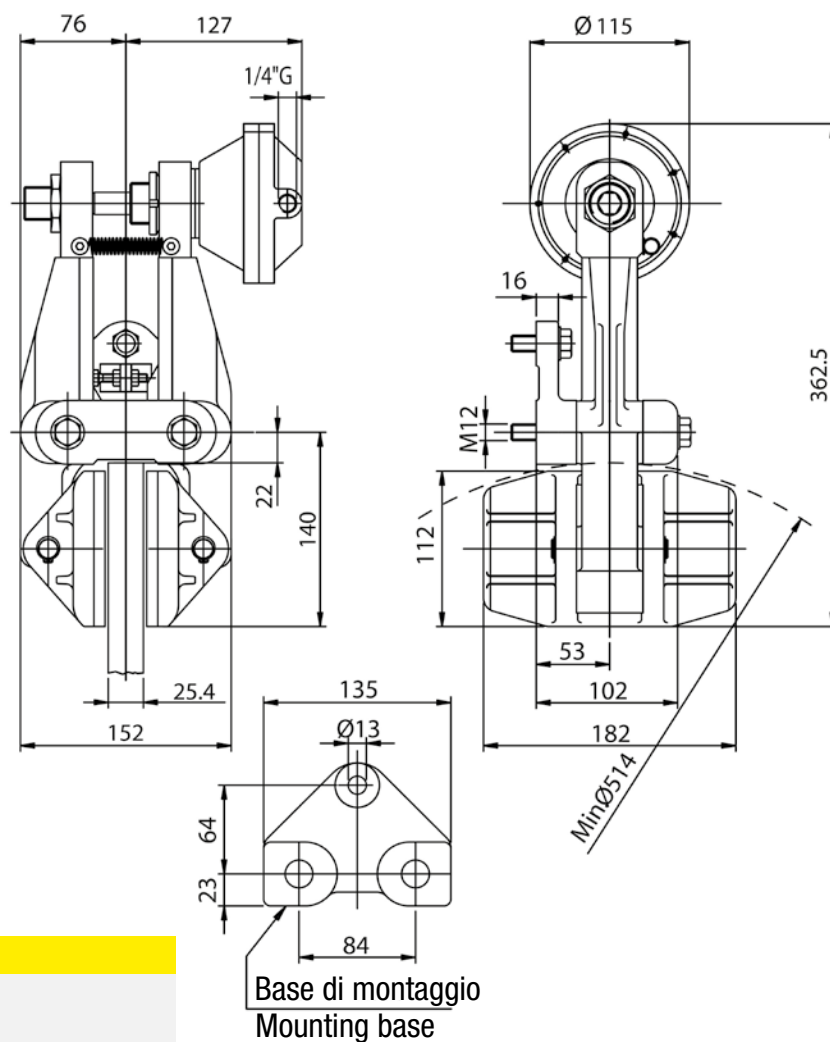
- Md forza frenante:
13416 N a 7 bar
- Coppia dinamica:
 $= Md \cdot (\text{raggio disco in m} - 0,033) = Nm$
- Pressione max 7 bar
- Volume aria 0,4 dm³
- Peso 15,5 Kg

TECHNICAL DATA

- Md braking force:
13416 N at 7 bar
- Dynamic torque:
 $= Md \cdot (\text{disc radius in m} - 0,033) = Nm$
- Max pressure 7 bar
- Air volume 0,4 dm³
- Weight 15,5 Kg



COD. PPL1

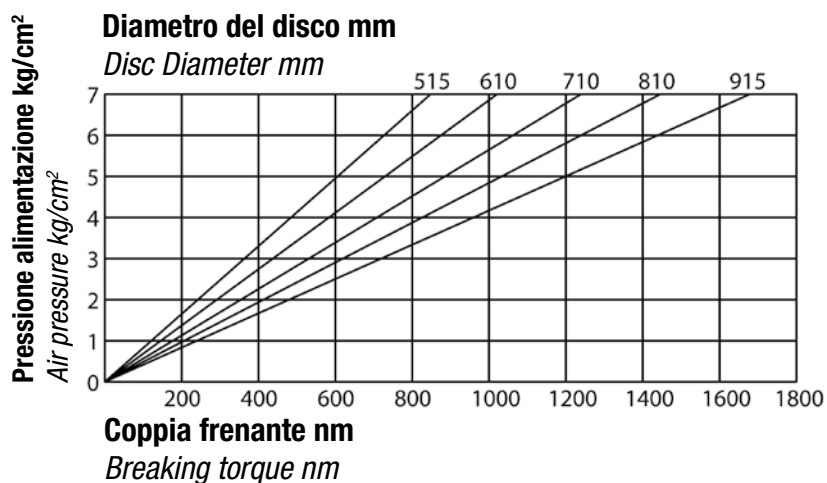


DATI TECNICI

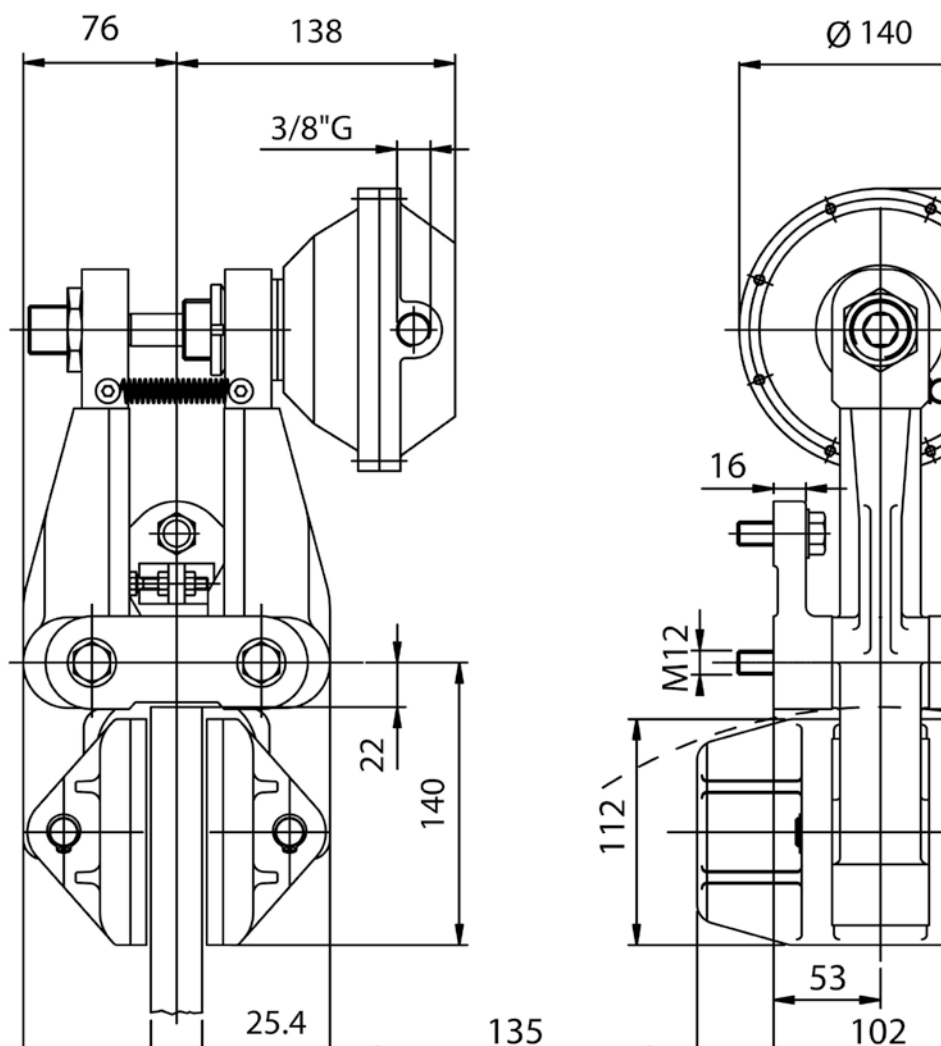
- Md forza frenante:
4232 N a 7 bar
- Coppia dinamica:
 $= Md \cdot (\text{raggio disco in m} - 0,062) = Nm$
- Pressione max 7 bar
- Volume aria 0,12 dm³
- Peso 16,2 Kg

TECHNICAL DATA

- *Md braking force:*
4232 N at 7 bar
- *Dynamic torque:*
 $= Md \cdot (\text{disc radius in m} - 0,062) = Nm$
- *Max pressure 7 bar*
- *Air volume 0,12 dm³*
- *Weight 16,2 Kg*



COD. PPL2



DATI TECNICI

- Md forza frenante:
8050 N a 7 bar
- Coppia dinamica:
 $= Md \cdot (\text{raggio disco in m} - 0,062) = Nm$
- Pressione max 7 bar
- Volume aria 0,25 dm³
- Peso 17,3 Kg

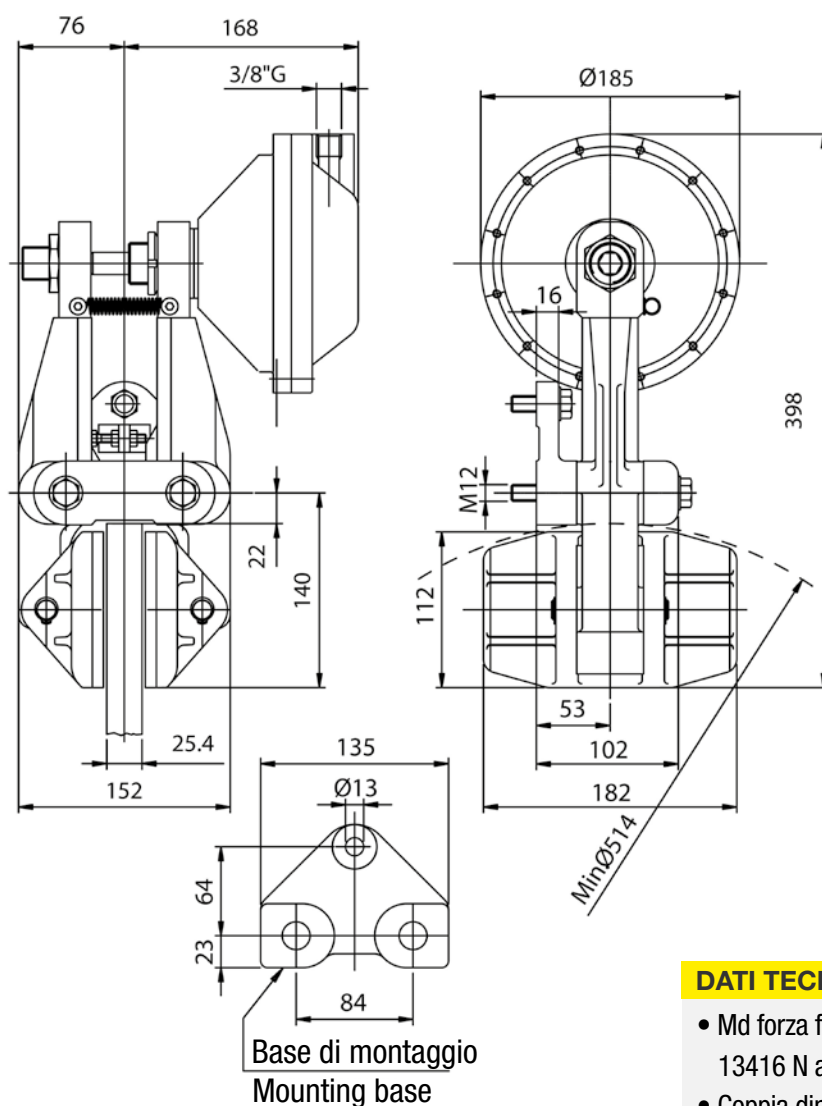
TECHNICAL DATA

- Md braking force:
8050 N at 7 bar
- Dynamic torque:
 $= Md \cdot (\text{disc radius in m} - 0,062) = Nm$
- Max pressure 7 bar
- Air volume 0,25 dm³
- Weight 17,3 Kg

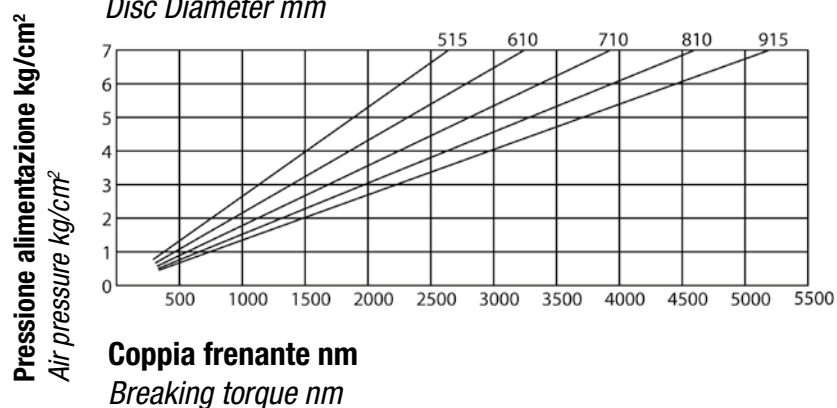
PINZE PNEUMATICHE POSITIVE *PNEUMATIC CALIPER BRAKES* *air applied*
FRENO A PINZA - dimensioni e prestazioni
CALIPER BRAKE - dimension and performances

SPL/3

COD. PPL 3



Diametro del disco mm
Disc Diameter mm



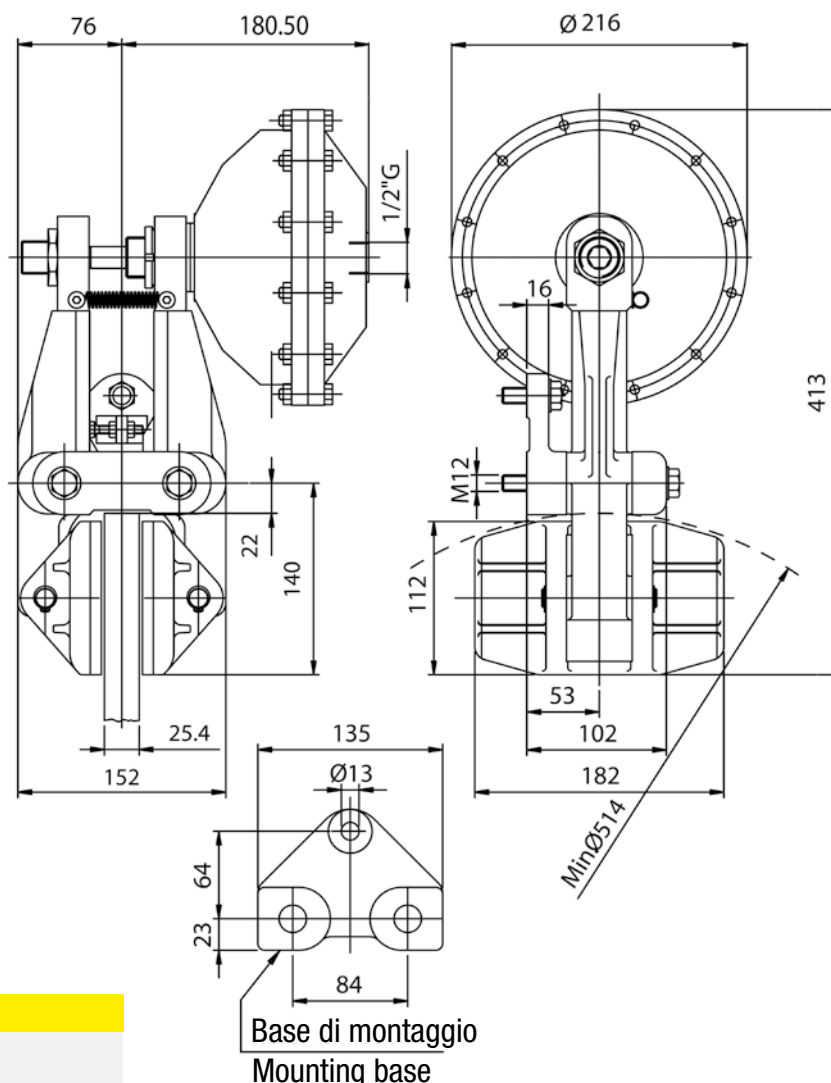
DATI TECNICI

- Md forza frenante:
13416 N a 7 bar
- Coppia dinamica:
= $Md \cdot (\text{raggio disco in m} - 0,062) = Nm$
- Pressione max 7 bar
- Volume aria 0,4 dm³
- Peso 21 Kg

TECHNICAL DATA

- *Md braking force:*
13416 N at 7 bar
- *Dynamic torque:*
= $Md \cdot (\text{disc radius in m} - 0,062) = Nm$
- *Max pressure 7 bar*
- *Air volume 0,4 dm³*
- *Weight 21 Kg*

COD. PPL 3,5

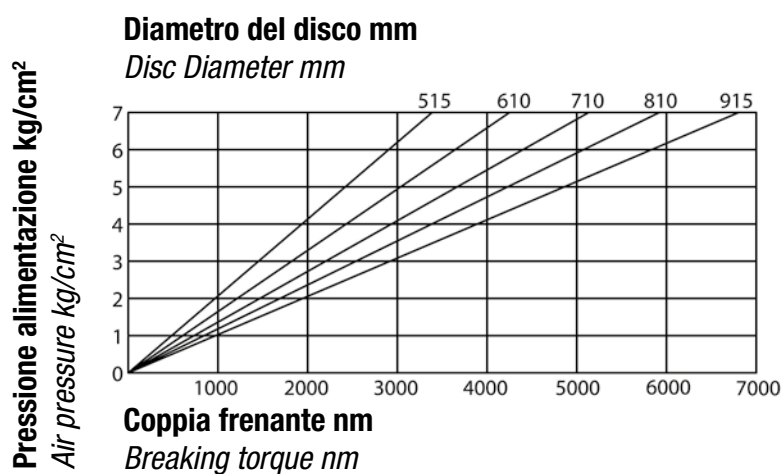


DATI TECNICI

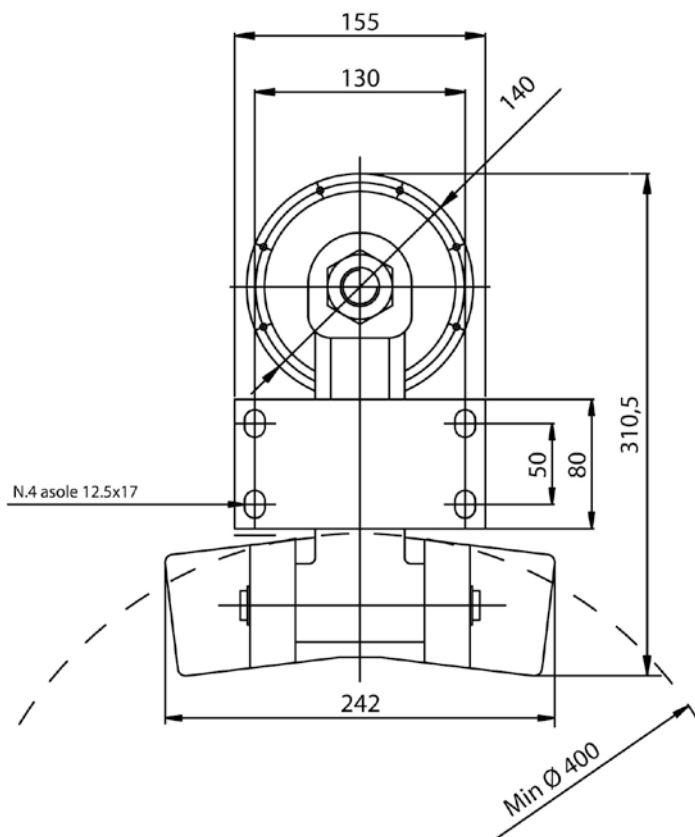
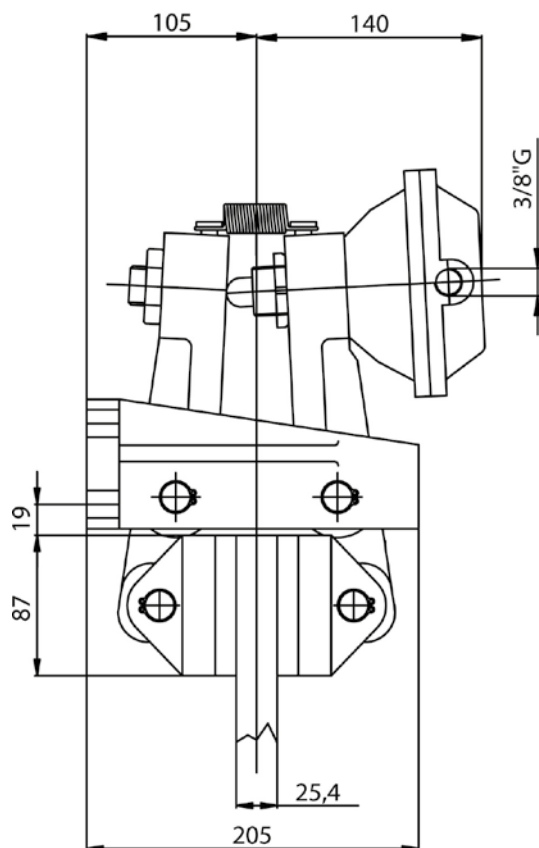
- Md forza frenante:
17400 N a 7 bar
- Coppia dinamica:
 $= Md \cdot (\text{raggio disco in m} - 0,062) = \text{Nm}$
- Pressione max 7 bar
- Volume aria 0,4 dm³
- Peso 19,5 Kg

TECHNICAL DATA

- Md braking force:
17400 N at 7 bar
- Dynamic torque:
 $= Md \cdot (\text{disc radius in m} - 0,062) = \text{Nm}$
- Max pressure 7 bar
- Air volume 0,4 dm³
- Weight 19,5 Kg

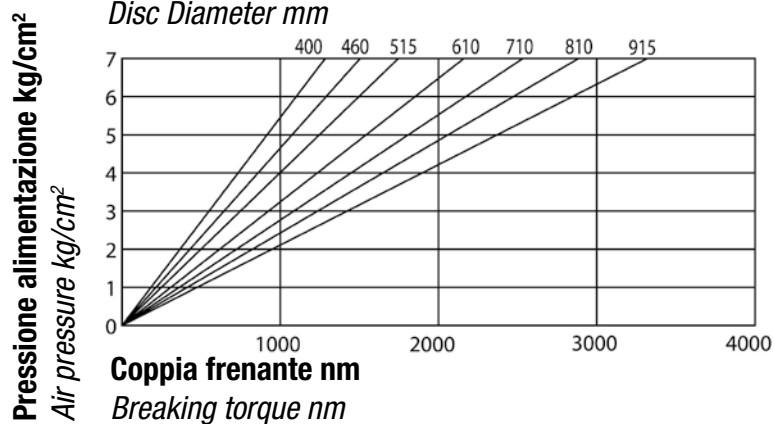


COD. PPF2



Diametro del disco mm

Disc Diameter mm

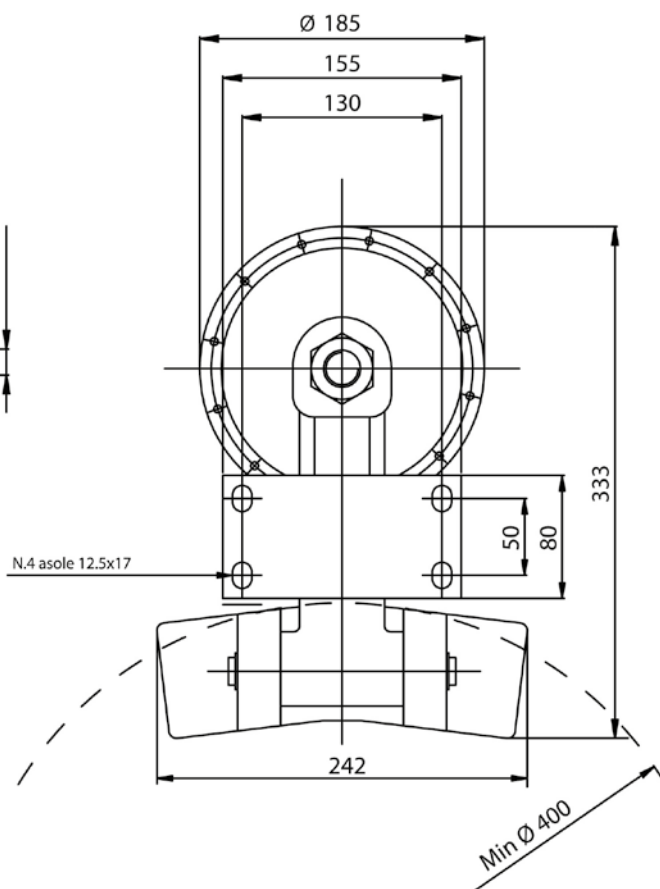
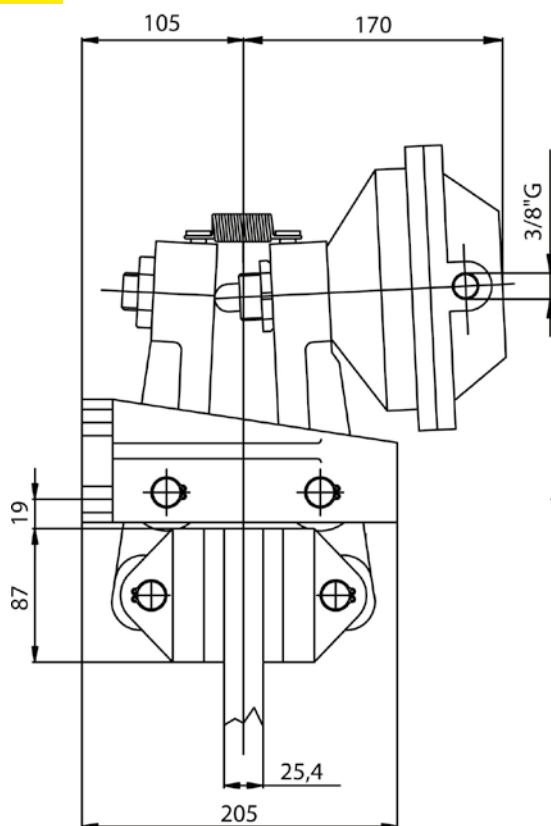


DATI TECNICI

- Md forza frenante:
8090 N a 7 bar
- Coppia dinamica:
= $Md \cdot (\text{raggio disco in m} - 0,045) = Nm$
- Pressione max 7 bar
- Volume aria 0,25 dm³
- Peso 22 Kg

TECHNICAL DATA

- *Md braking force:*
8090 N at 7 bar
- *Dynamic torque:*
= $Md \cdot (\text{disc radius in m} - 0,045) = Nm$
- *Max pressure 7 bar*
- *Air volume 0,25 dm³*
- *Weight 22 Kg*

COD. PPF3

DATI TECNICI

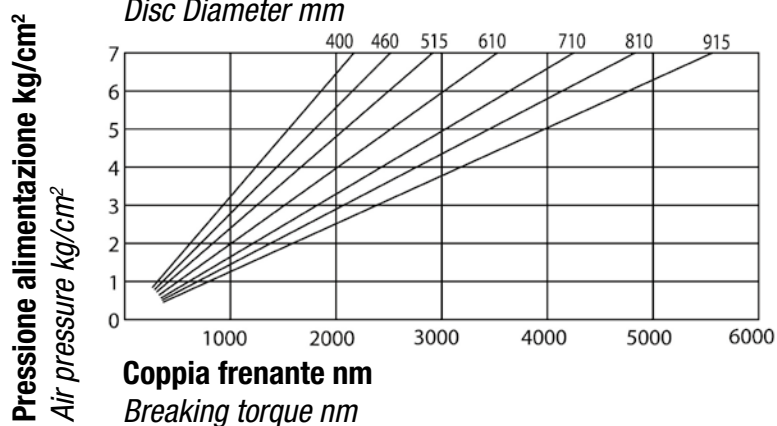
- Md forza frenante:
13450 N a 7 bar
- Coppia dinamica:
 $= Md \cdot (\text{raggio disco in m} - 0,045) = Nm$
- Pressione max 7 bar
- Volume aria 0,4 dm³
- Peso 26 Kg

TECHNICAL DATA

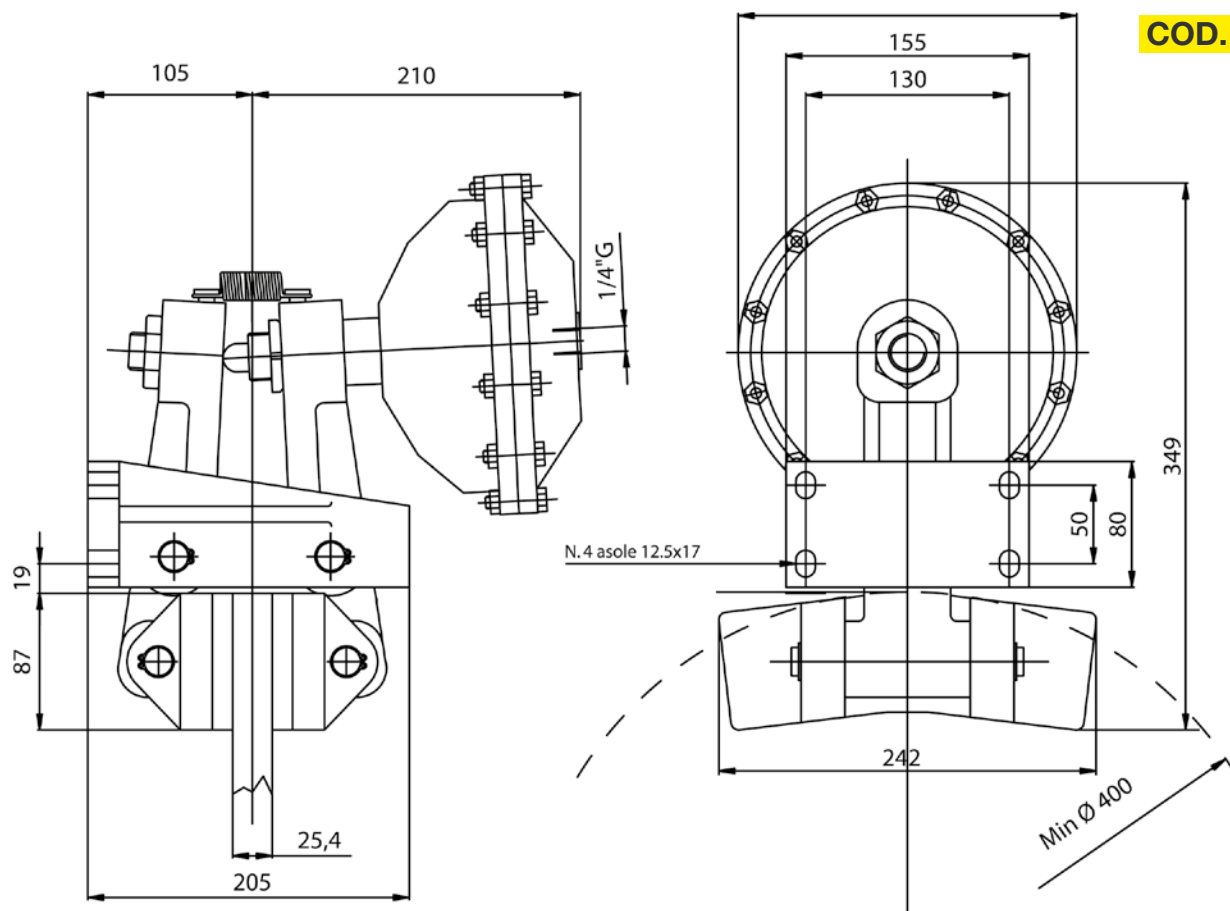
- *Md braking force:*
13450 N at 7 bar
- *Dynamic torque:*
 $= Md \cdot (\text{disc radius in m } 0,045) = Nm$
- *Max pressure 7 bar*
- *Air volume 0,4 dm³*
- *Weight 26 Kg*

Diametro del disco mm

Disc Diameter mm



COD. PPF2

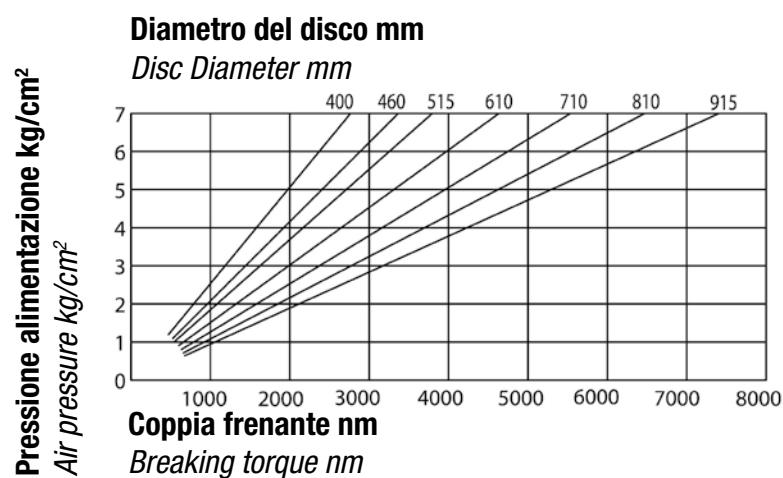


DATI TECNICI

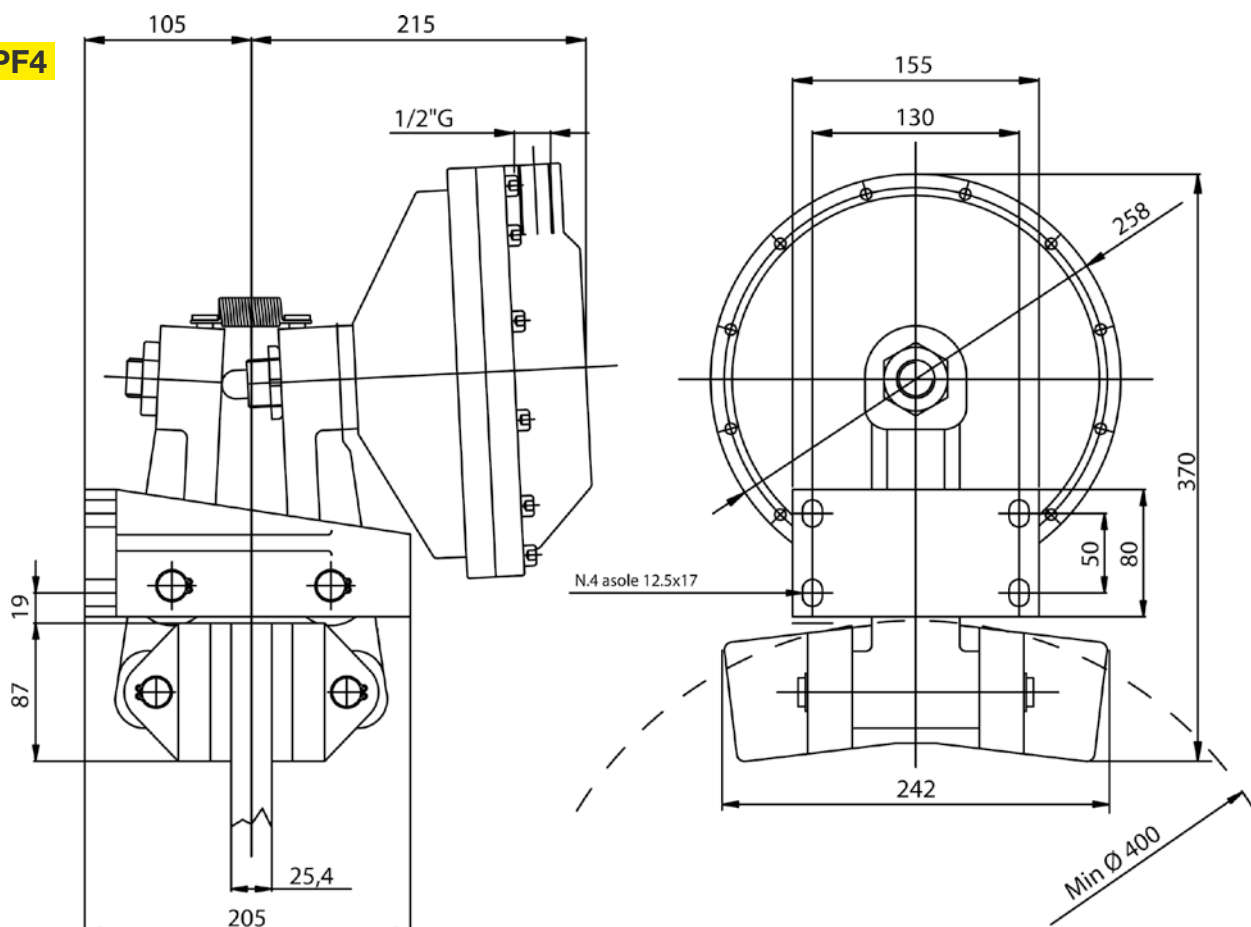
- Md forza frenante:
17870 N a 7 bar
- Coppia dinamica:
 $= Md \cdot (\text{raggio disco in m} - 0,045) = Nm$
- Pressione max 7 bar
- Volume aria 0,4 dm³
- Peso 24 Kg

TECHNICAL DATA

- Md braking force:
17870 N at 7 bar
- Dynamic torque:
 $= Md \cdot (\text{disc radius in m} - 0,045) = Nm$
- Max pressure 7 bar
- Air volume 0,4 dm³
- Weight 24 Kg



COD. PPF4

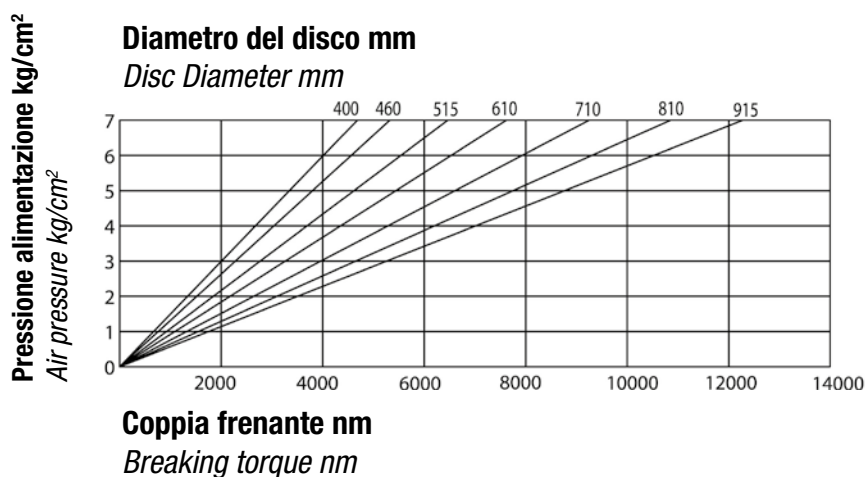


DATI TECNICI

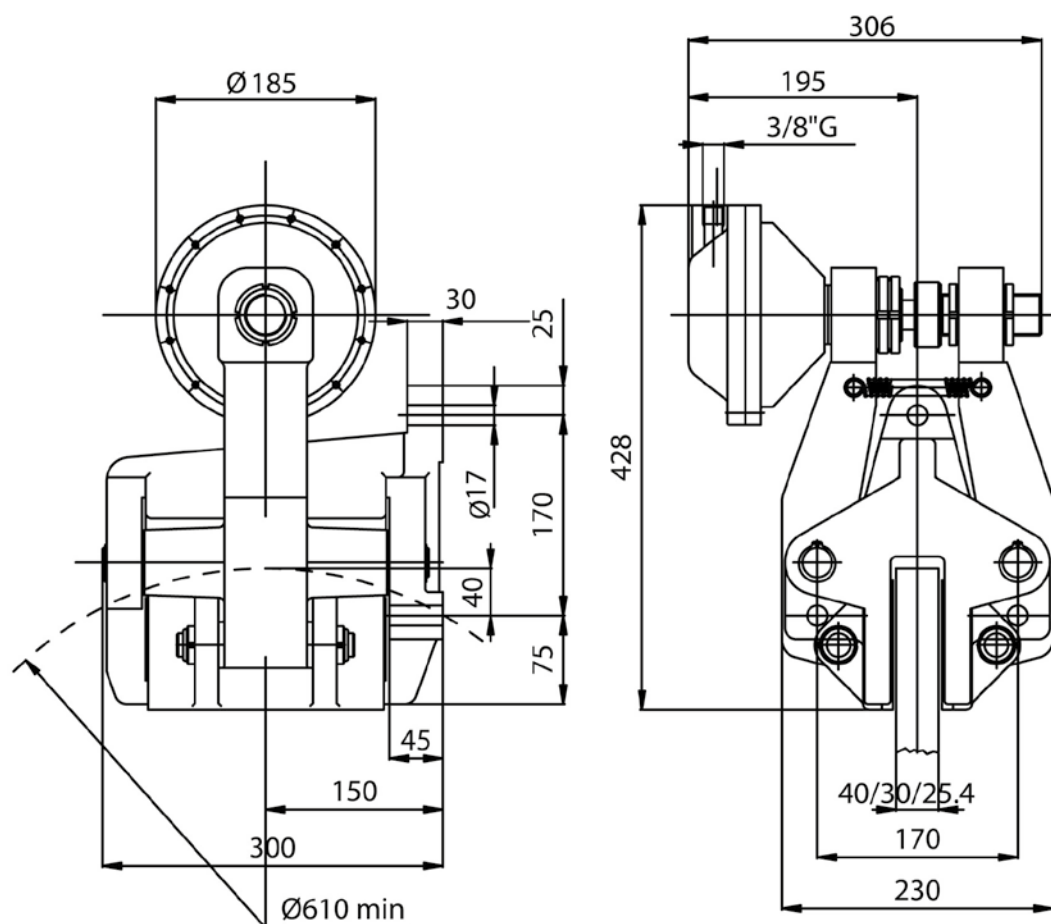
- Md forza frenante:
29800 N a 7 bar
- Coppia dinamica:
 $= Md \cdot (\text{raggio disco in m} - 0,045) = Nm$
- Pressione max 7 bar
- Volume aria 1 dm³
- Peso 35 Kg

TECHNICAL DATA

- Md braking force:
29800 N at 7 bar
- Dynamic torque:
 $= Md \cdot (\text{disc radius in m} - 0,045) = Nm$
- Max pressure 7 bar
- Air volume 1 dm³
- Weight 35 Kg



COD. PPR3

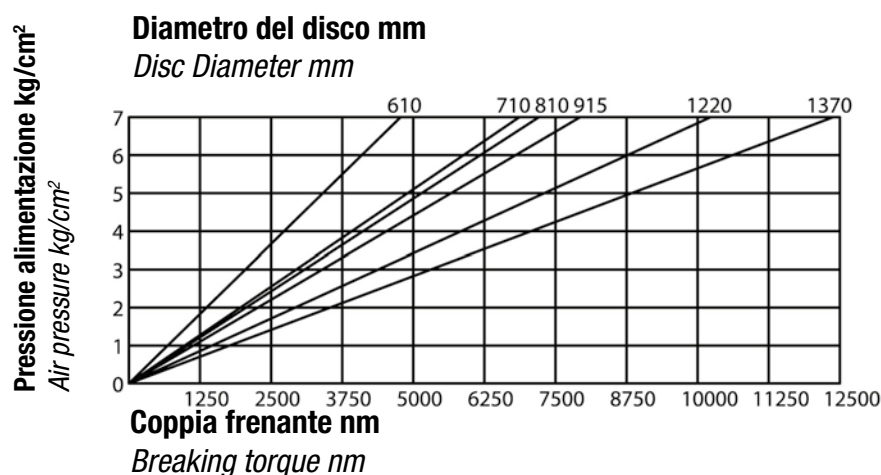


DATI TECNICI

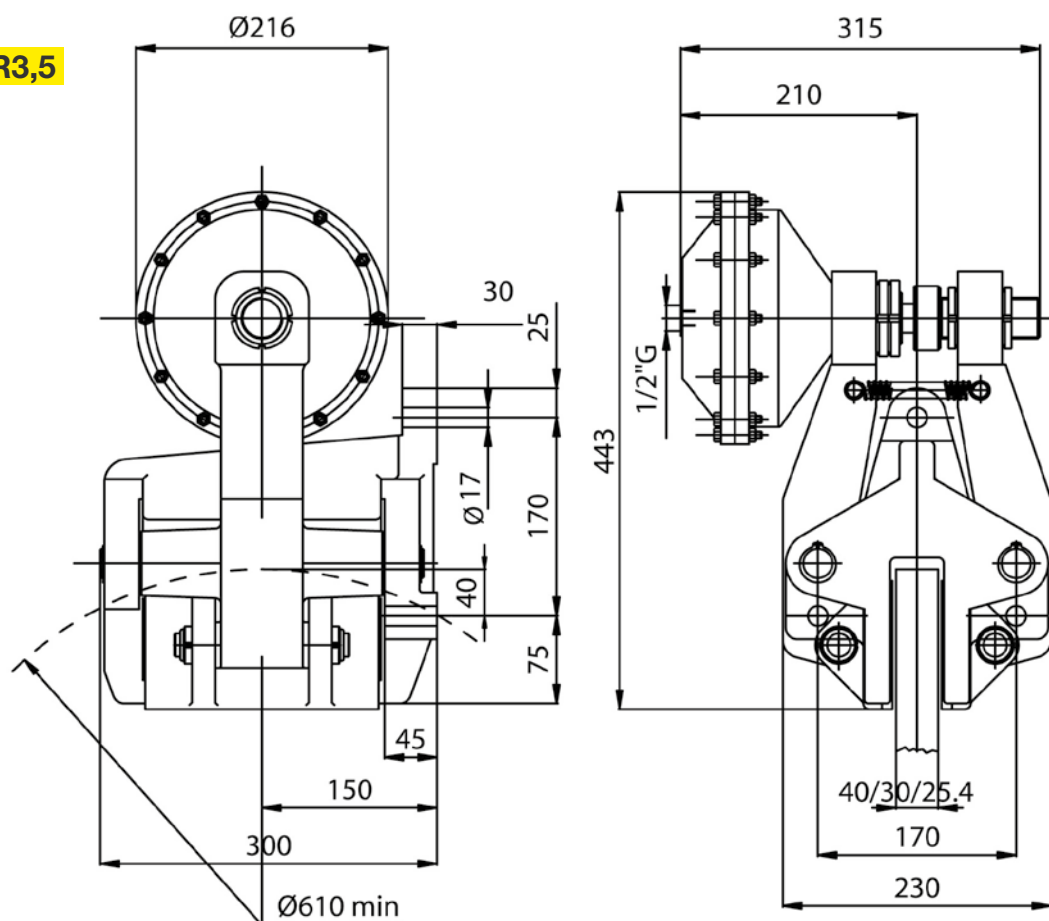
- Md forza frenante:
20000 N a 7 bar
- Coppia dinamica:
= $Md \cdot (\text{raggio disco in m} - 0,065) = Nm$
- Pressione max 7 bar
- Volume aria 0,4 dm³
- Peso 50 Kg

TECHNICAL DATA

- Md braking force:
20000 N at 7 bar
- Dynamic torque:
= $Md \cdot (\text{disc radius in m} - 0,065) = Nm$
- Max pressure 7 bar
- Air volume 0,4 dm³
- Weight 50 Kg



COD. PPR3,5

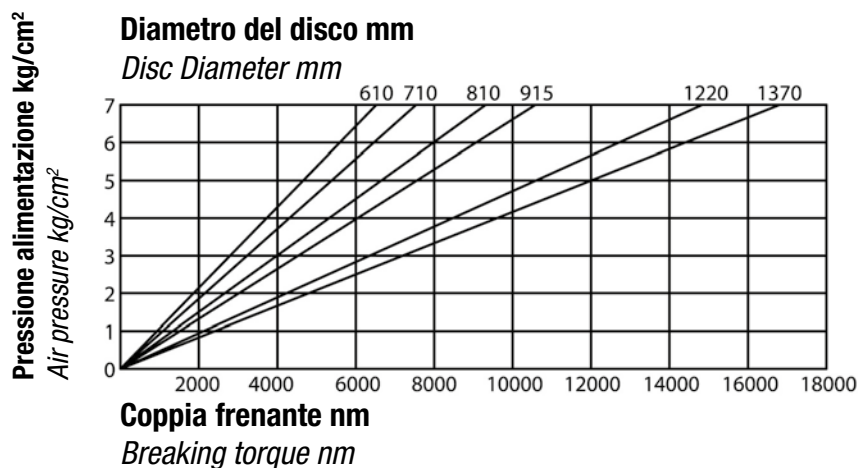


DATI TECNICI

- Md forza frenante:
27000 N a 7 bar
- Coppia dinamica:
 $= Md \cdot (\text{raggio disco in m} - 0,065) = Nm$
- Pressione max 7 bar
- Volume aria 0,8 dm²
- Peso 48 Kg

TECHNICAL DATA

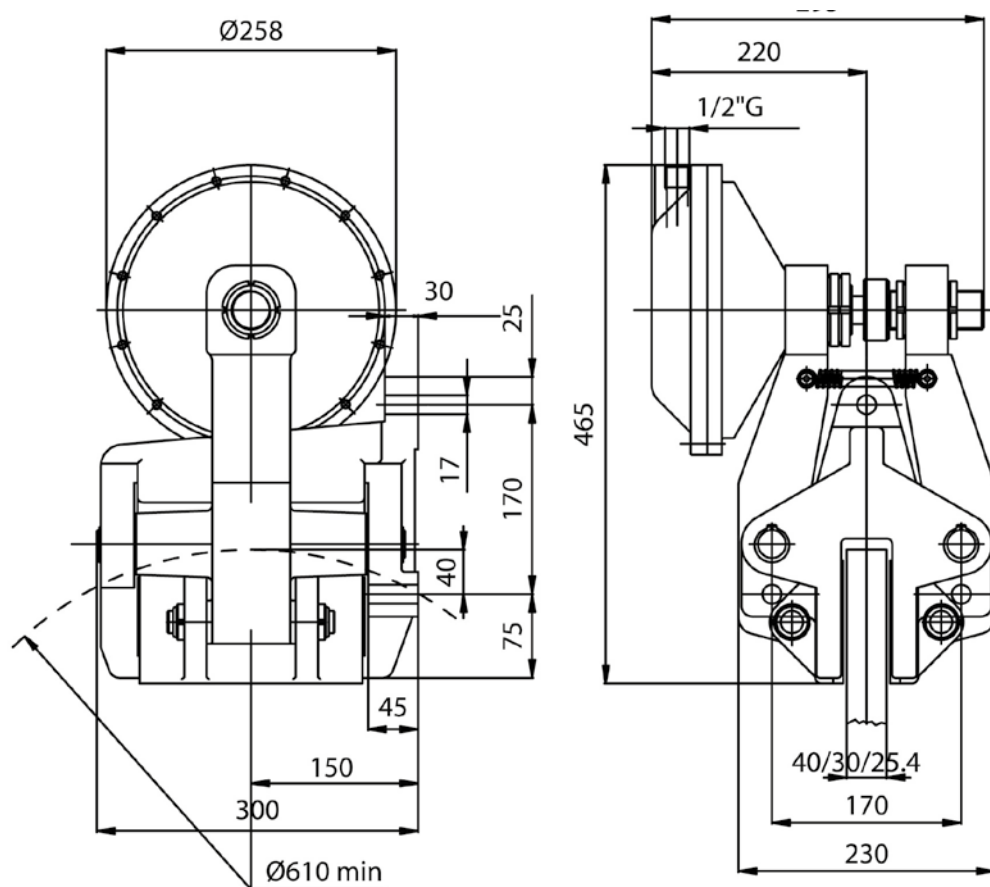
- Md braking force:
27000 N at 7 bar
- Dynamic torque:
 $= Md \cdot (\text{disc radius in m} - 0,065) = Nm$
- Max pressure 7 bar
- Air volume 0,8 dm²
- Weight 48 Kg



PINZE PNEUMATICHE POSITIVE *PNEUMATIC CALIPER BRAKES air applied*
FRENO A PINZA - dimensioni e prestazioni
CALIPER BRAKE - dimension and performances

SPR/4

COD. PPR

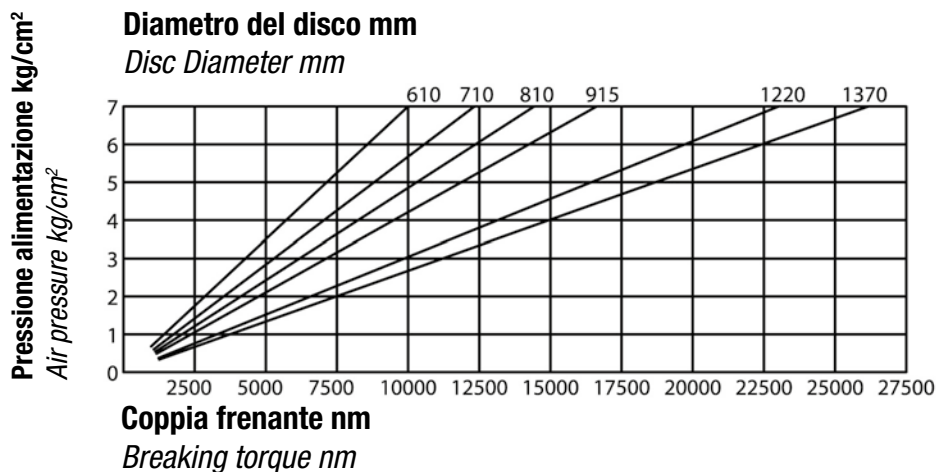


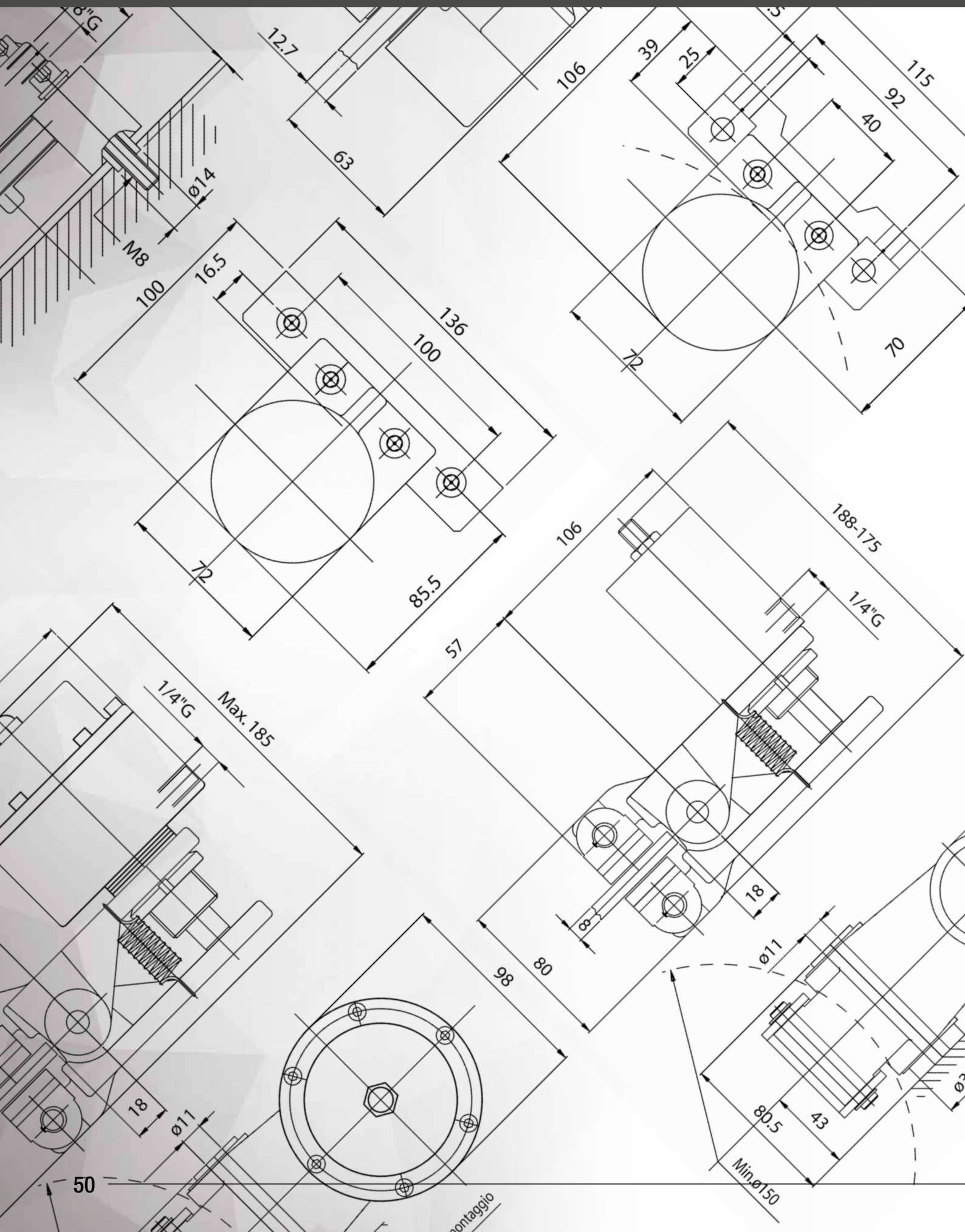
DATI TECNICI

- Md forza frenante:
42000 N a 7 bar
- Coppia dinamica:
 $= Md \cdot (\text{raggio disco in m} - 0,065) = Nm$
- Pressione max 7 bar
- Volume aria 1 dm³
- Peso 59 Kg

TECHNICAL DATA

- Md braking force:
42000 N at 7 bar
- Dynamic torque:
 $= Md \cdot (\text{disc radius in m} - 0,065) = Nm$
- Max pressure 7 bar
- Air volume 1 dm³
- Weight 59 Kg





PINZE PNEUMATICHE NEGATIVE PNEUMATIC CALIPER BRAKES SPRING APPLIED

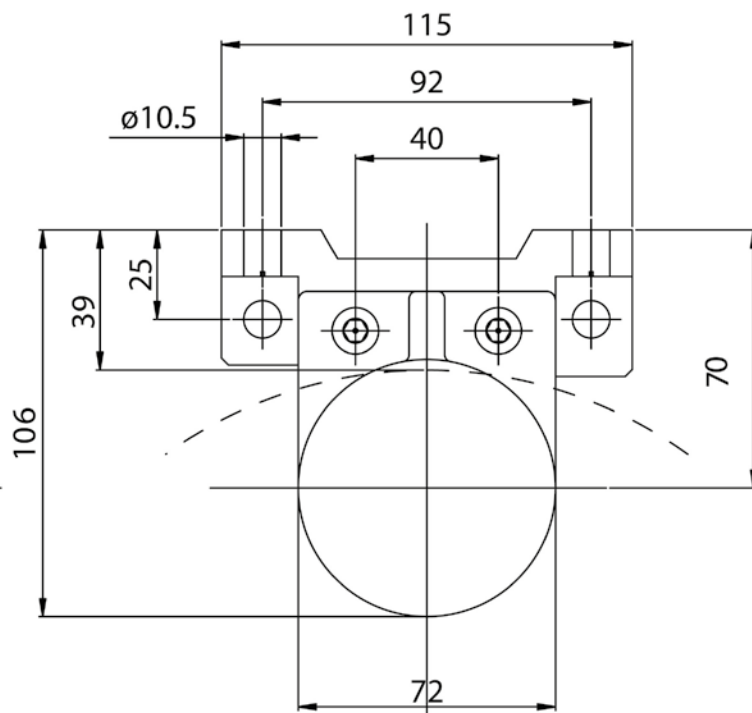
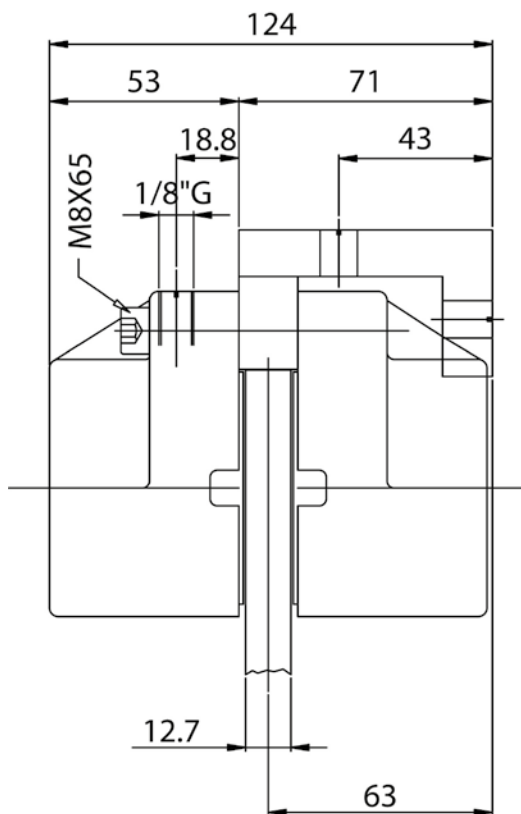


I freni negativi OMPI permettono di soddisfare l'esigenza di frenare e bloccare le parti in moto rotatorio delle macchine senza nessuna fonte di energia esterna. In questa tipologia di prodotto, infatti, la forza frenante è garantita dalle molle presenti all'interno del freno, ed è quindi un'applicazione di notevole interesse.

O MPI pneumatic caliper brakes can satisfy the need of braking and stop the rotation parts of the machines without any source of external energy. In fact, in this type of product the braking force is given from the springs of the brake; we consider that it is an application of remarkable interest.

COD. NOO1

COD. PP0/1 - SUPPORTO



DATI TECNICI

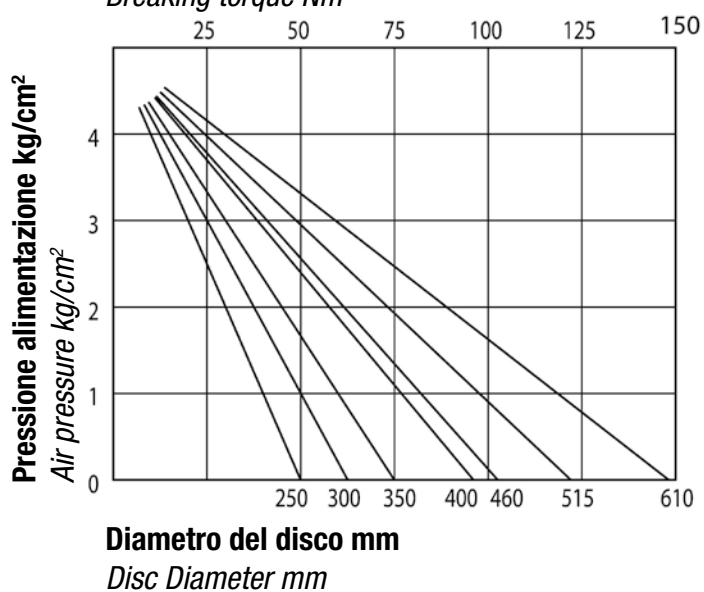
- Md forza frenante:
540 N
- Coppia dinamica:
 $= Md \cdot (\text{raggio disco in m} - 0,033) = Nm$
- Pressione minima apertura 5 bar
- Volume aria 0,05 dm³
- Peso 1,4 Kg

TECHNICAL DATA

- Md braking force:
540 N
- Dynamic torque:
 $= Md \cdot (\text{disc radius in m} - 0,033) = Nm$
- Least pressure opening 5 bar
- Air volume 0,05 dm³
- Weight 1,4 Kg

Coppia frenante Nm

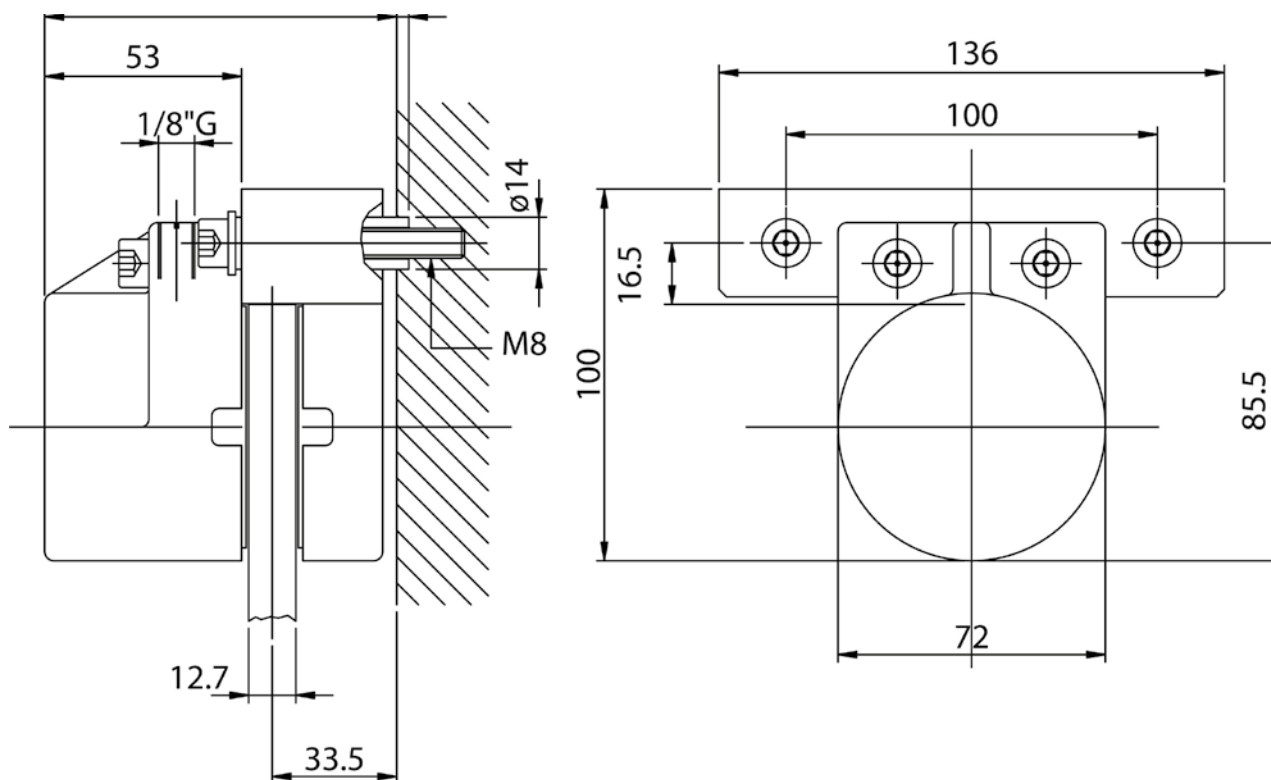
Breaking torque Nm



Diametro del disco mm

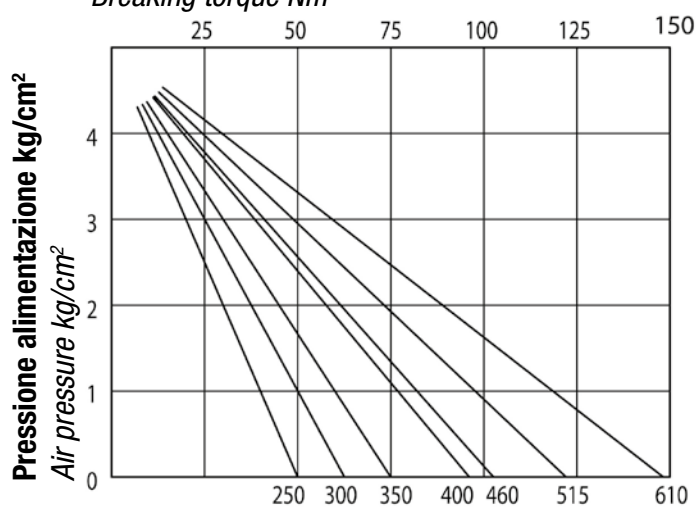
Disc Diameter mm

COD. N00018



Coppia frenante Nm

Breaking torque Nm



Diametro del disco mm

Disc Diameter mm

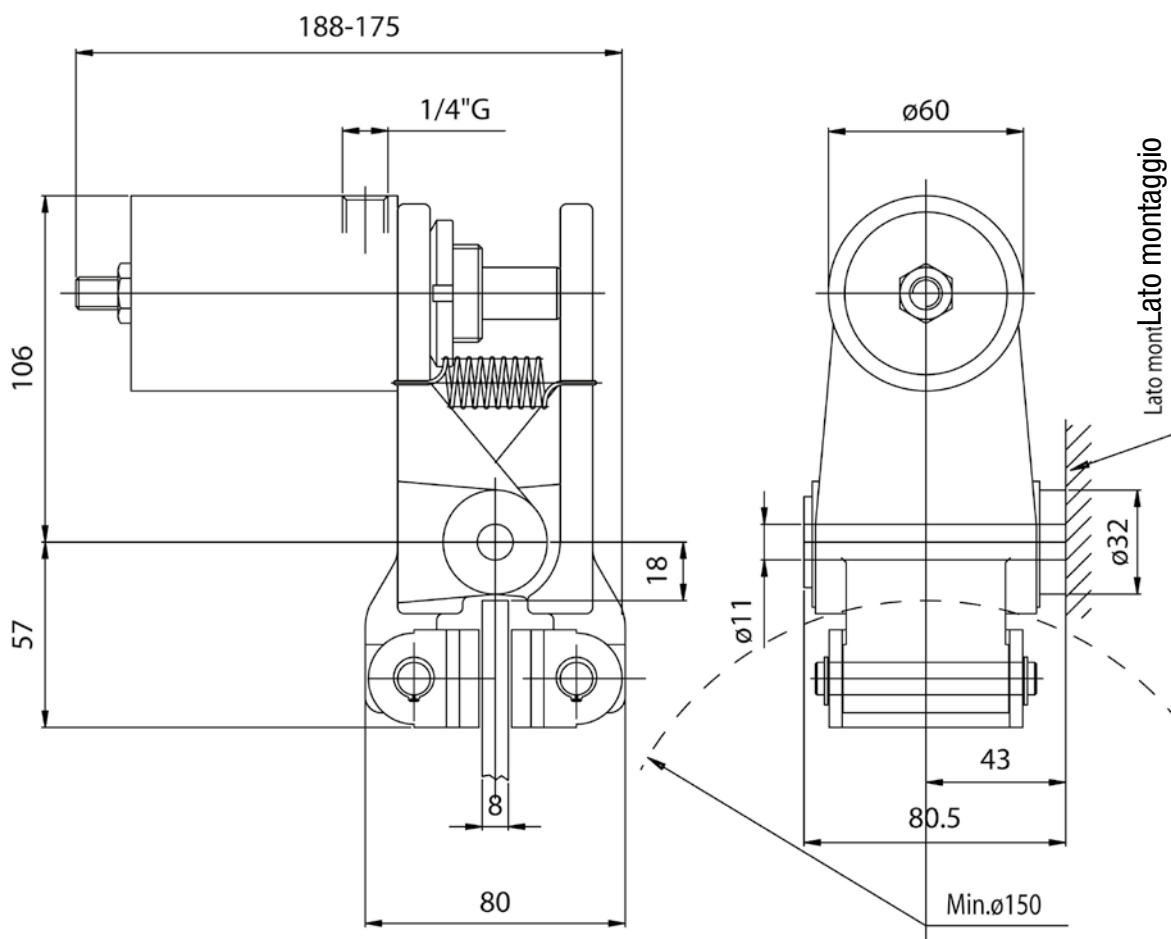
DATI TECNICI

- Md forza frenante:
540 N
- Coppia dinamica:
 $= Md \cdot (\text{raggio disco in m} - 0,033) = Nm$
- Pressione minima apertura 5 bar
- Volume aria 0,025 dm³
- Peso 0,9 Kg

TECHNICAL DATA

- *Md braking force:*
540 N
- *Dynamic torque:*
 $= Md \cdot (\text{disc radius in m} - 0,033) = Nm$
- *Least pressure opening 5 bar*
- *Air volume 0,025 dm³*
- *Weight 0,9 Kg*

COD. NO02



DATI TECNICI

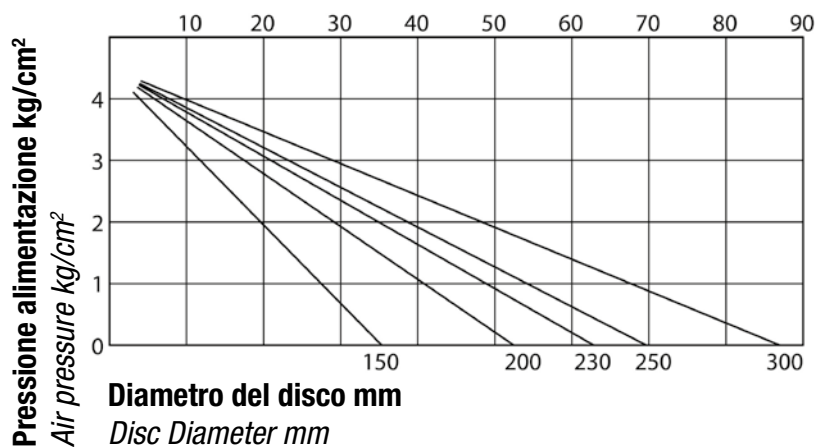
- Md forza frenante:
max 690 N
- Coppia dinamica:
 $= Md \cdot (\text{raggio disco in m} - 0,025) = Nm$
- Pressione minima apertura 5 bar
- Volume aria 0,04 dm³
- Peso 3,2 Kg

TECHNICAL DATA

- *Md braking force:*
max 690 N
- *Dynamic torque:*
 $= Md \cdot (\text{disc radius in m} - 0,025) = Nm$
- *Least pressure opening 5 bar*
- *Air volume 0,04 dm³*
- *Weight 3,2 Kg*

Coppia frenante Nm

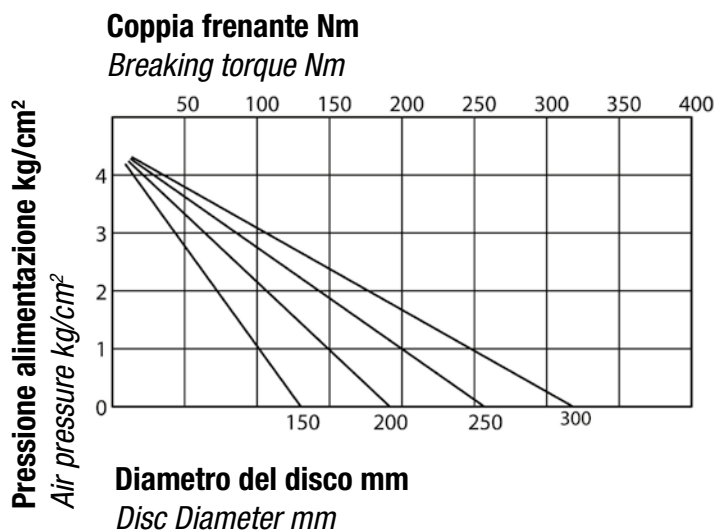
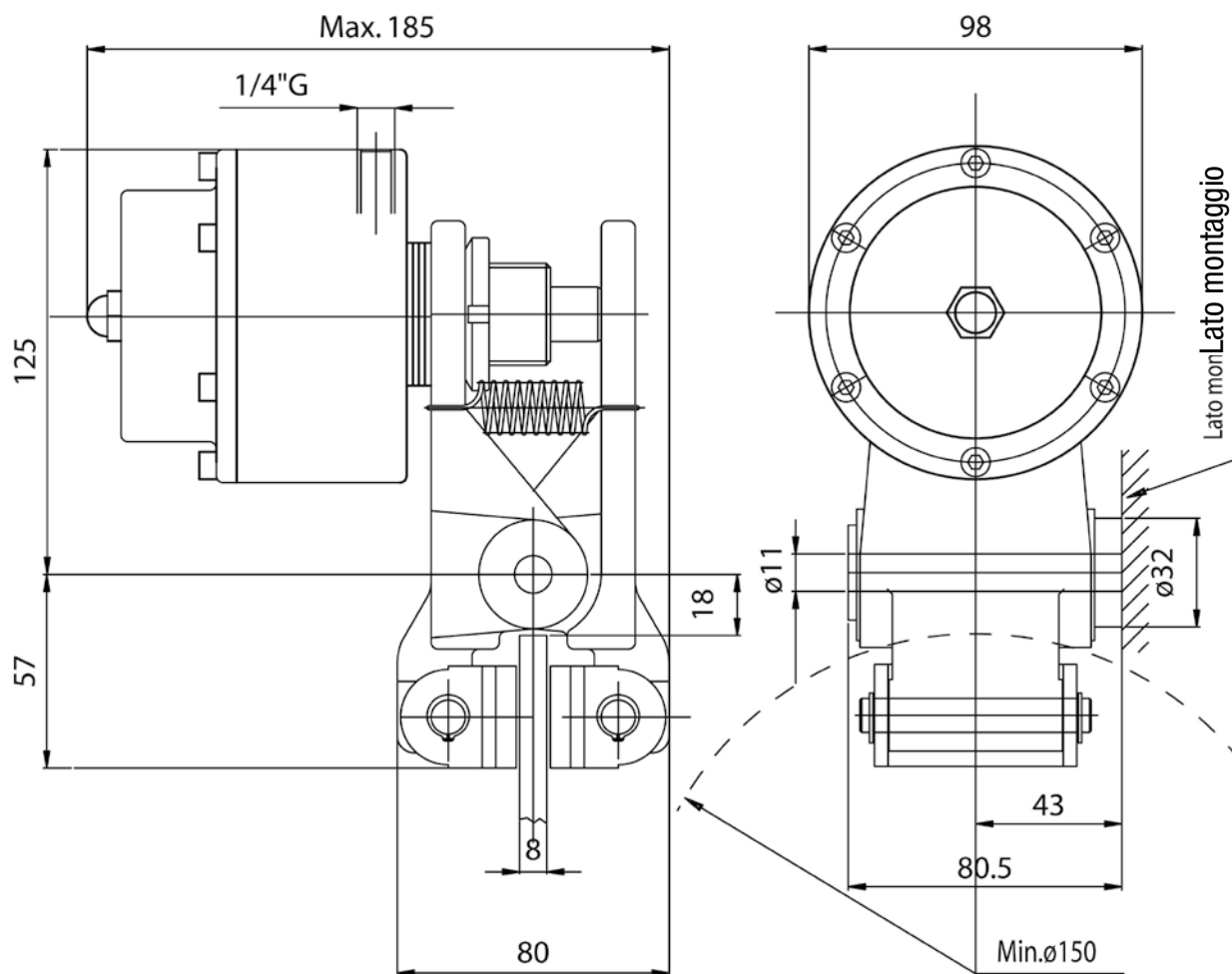
Breaking torque Nm



Diametro del disco mm

Disc Diameter mm

COD. NO0014



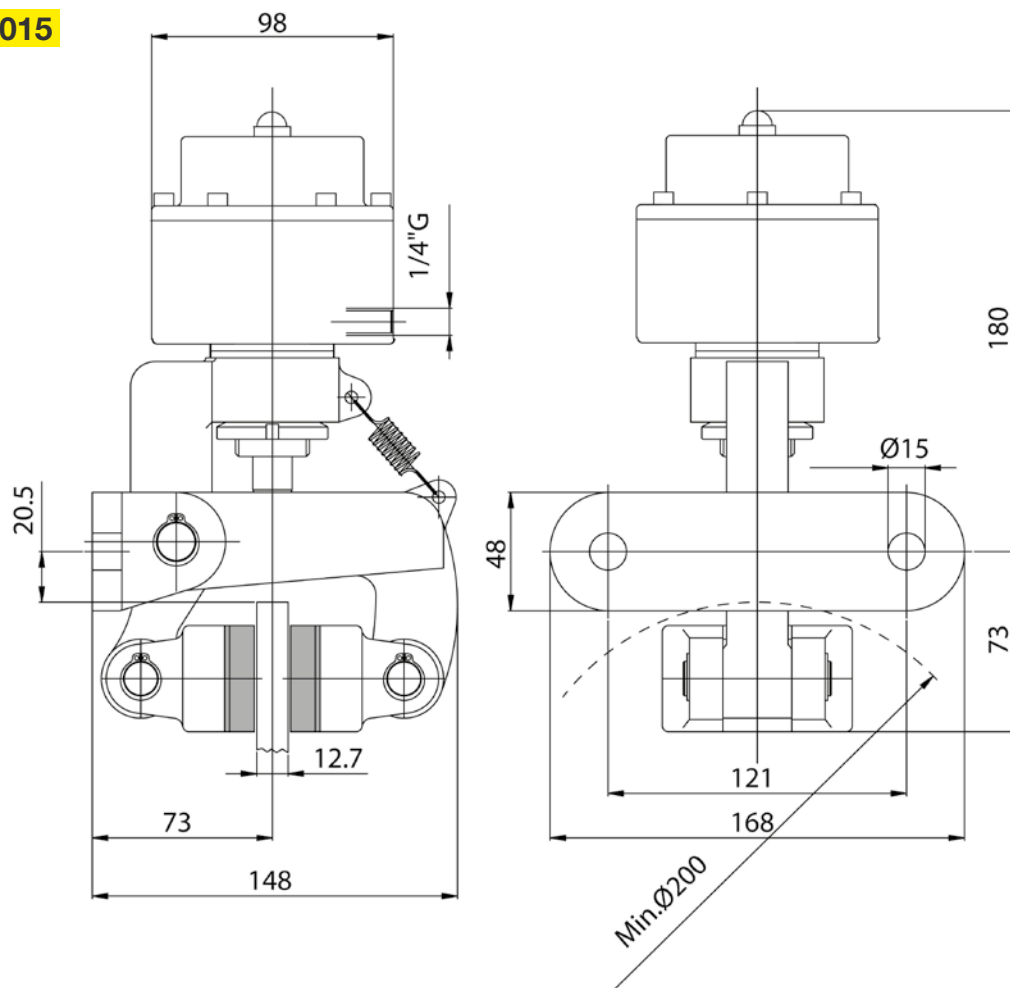
DATI TECNICI

- Md forza frenante:
540 N
- Coppia dinamica:
 $= Md \cdot (\text{raggio disco in m} - 0,033) = Nm$
- Pressione minima apertura 5 bar
- Volume aria 0,025 dm³
- Peso 0,9 Kg

TECHNICAL DATA

- Md braking force:
540 N
- Dynamic torque:
 $= Md \cdot (\text{disc radius in m} - 0,033) = Nm$
- Least pressure opening 5 bar
- Air volume 0,025 dm³
- Weight 0,9 Kg

COD. N00015

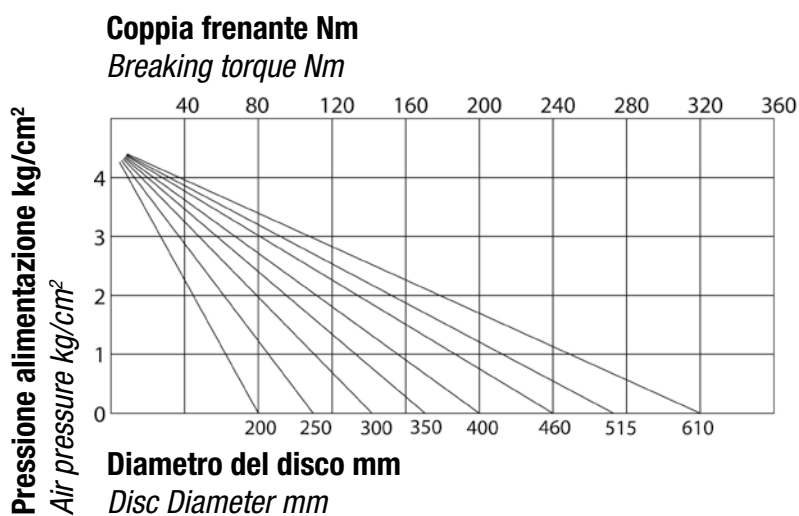


DATI TECNICI

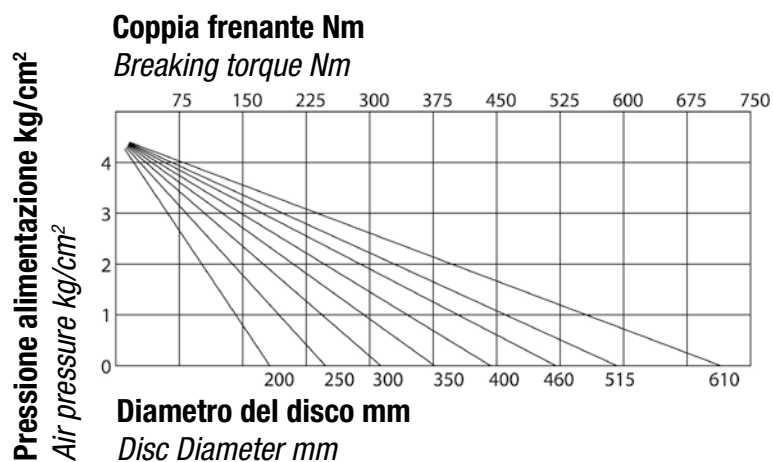
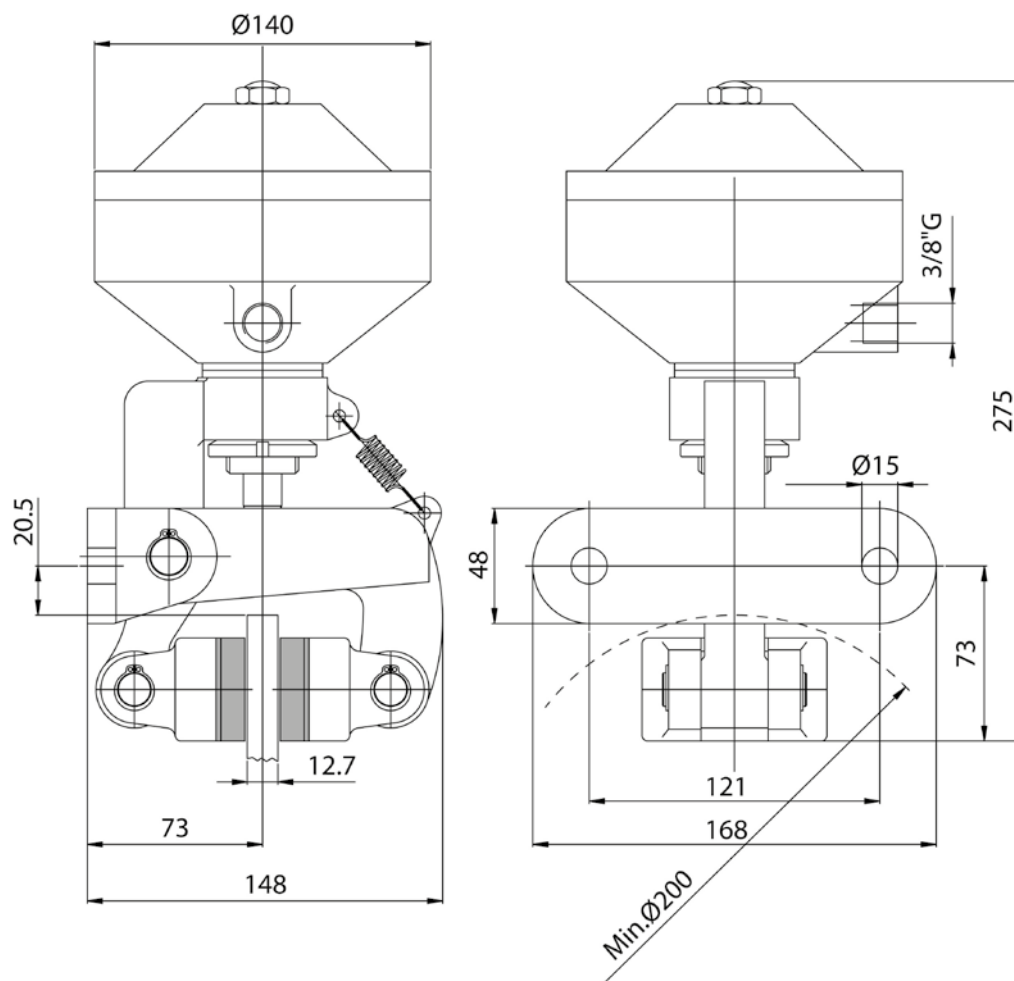
- Md forza frenante:
max 1200 N
- Coppia dinamica:
= $Md \cdot (\text{raggio disco in m} - 0,032) = Nm$
- Pressione minima apertura 5 bar
- Volume aria 0,07 dm³
- Peso 6 Kg

TECHNICAL DATA

- Md braking force:
max 1200 N
- Dynamic torque:
= $Md \cdot (\text{disc radius in m} - 0,032) = Nm$
- Least pressure opening 5 bar
- Air volume 0,07 dm³
- Weight 6 Kg



COD. NO03



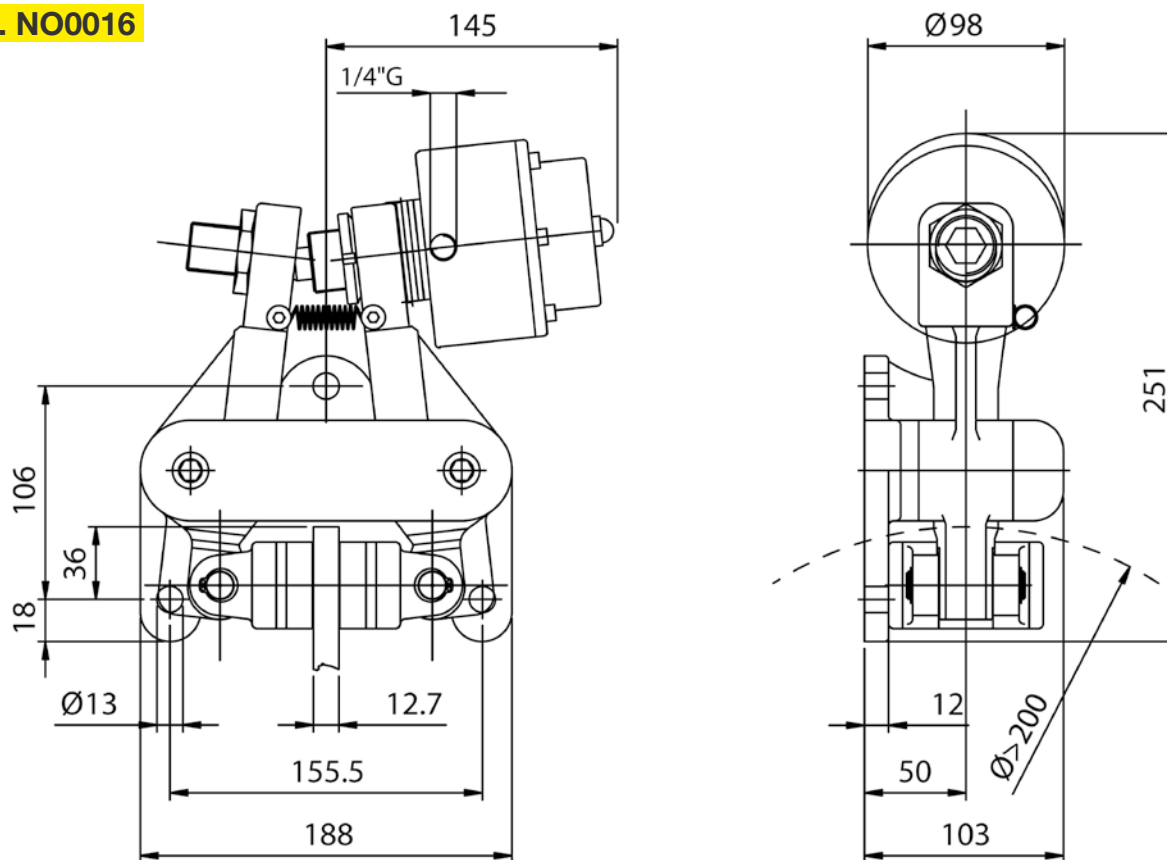
DATI TECNICI

- Md forza frenante:
540 N
- Coppia dinamica:
= $Md \cdot (\text{raggio disco in m} - 0,033) = \text{Nm}$
- Pressione minima apertura 5 bar
- Volume aria 0,025 dm³
- Peso 0,9 Kg

TECHNICAL DATA

- Md braking force:
540 N
- Dynamic torque:
= $Md \cdot (\text{disc radius in m} - 0,033) = \text{Nm}$
- Least pressure opening 5 bar
- Air volume 0,025 dm³
- Weight 0,9 Kg

COD. NO0016

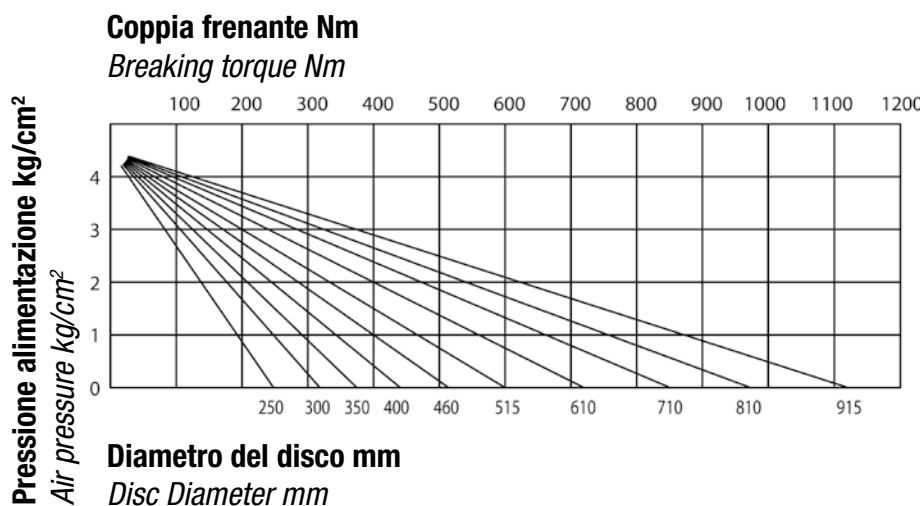


DATI TECNICI

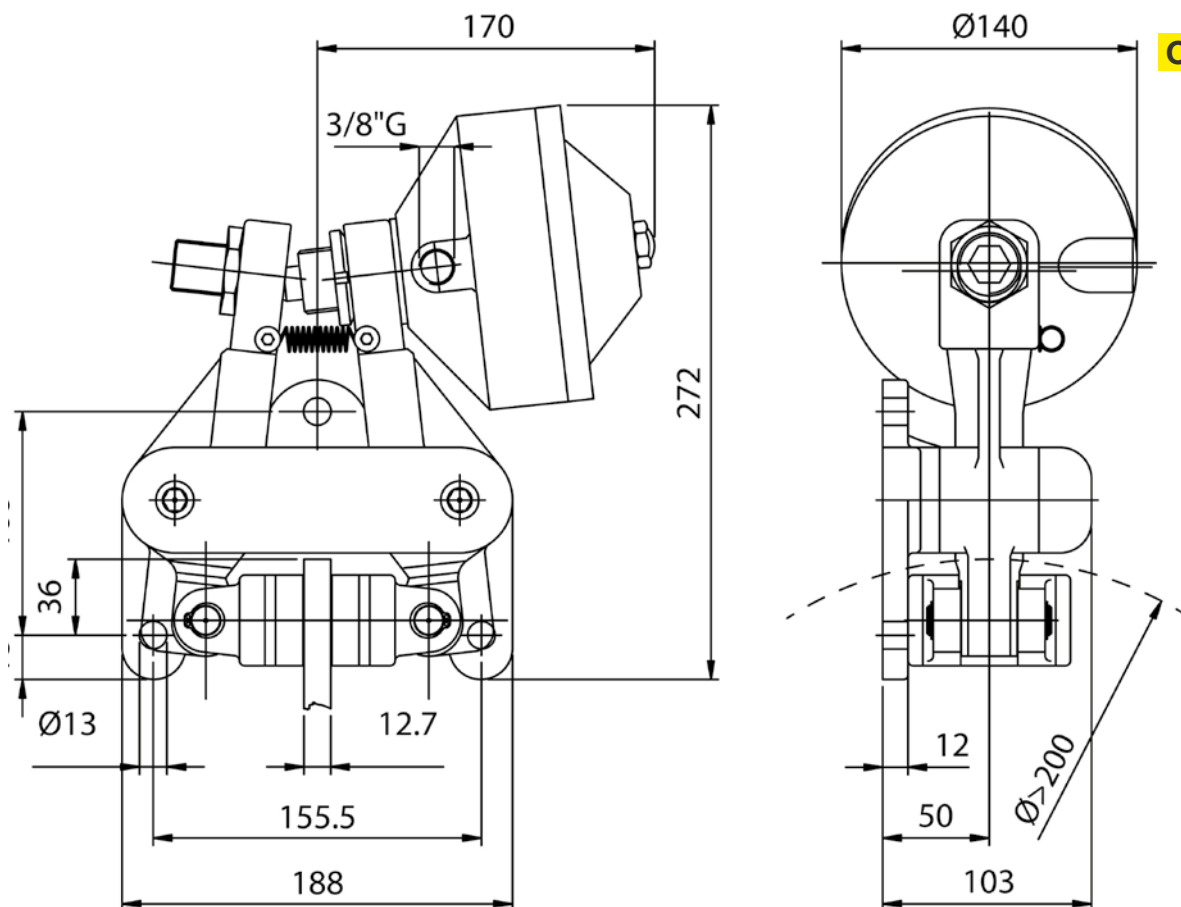
- Md forza frenante:
2600 N
- Coppia dinamica:
 $= Md \cdot (\text{raggio disco in m} - 0,030) = Nm$
- Pressione minima apertura 5 bar
- Volume aria 0,07 dm³
- Peso 9,750 Kg

TECHNICAL DATA

- *Md braking force:*
2600 N
- *Dynamic torque:*
 $= Md \cdot (\text{disc radius in m} - 0,030) = Nm$
- *Least pressure opening 5 bar*
- *Air volume 0,07 dm³*
- *Weight 9,750 Kg*



COD. NO04

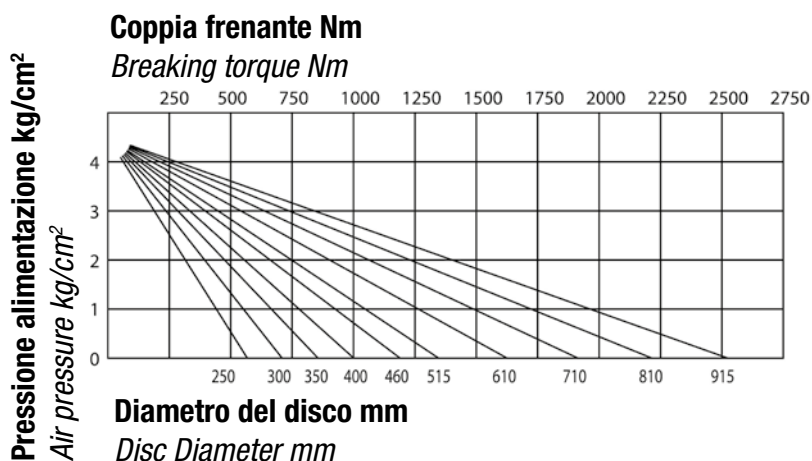


DATI TECNICI

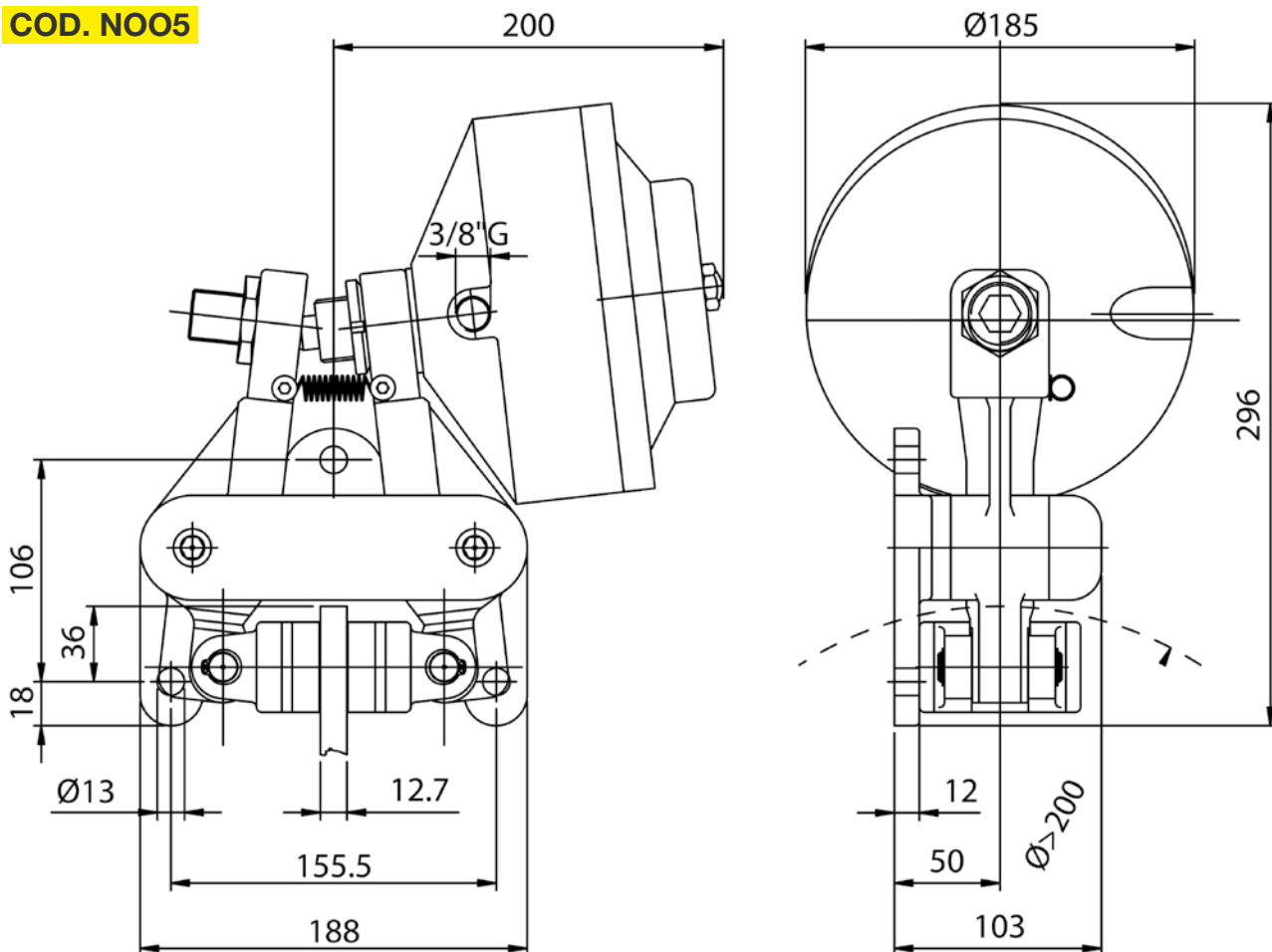
- Md forza frenante:
max 5900 N
- Coppia dinamica:
 $= Md \cdot (\text{raggio disco in m} - 0,03) = Nm$
- Pressione minima apertura 5 bar
- Volume aria 0,3 dm³
- Peso 13,6 Kg

TECHNICAL DATA

- Md braking force:
max 5900 N
- Dynamic torque:
 $= Md \cdot (\text{disc radius in m} - 0,03) = Nm$
- Least pressure opening 5 bar
- Air volume 0,3 dm³
- Weight 13,6 Kg



COD. NO05

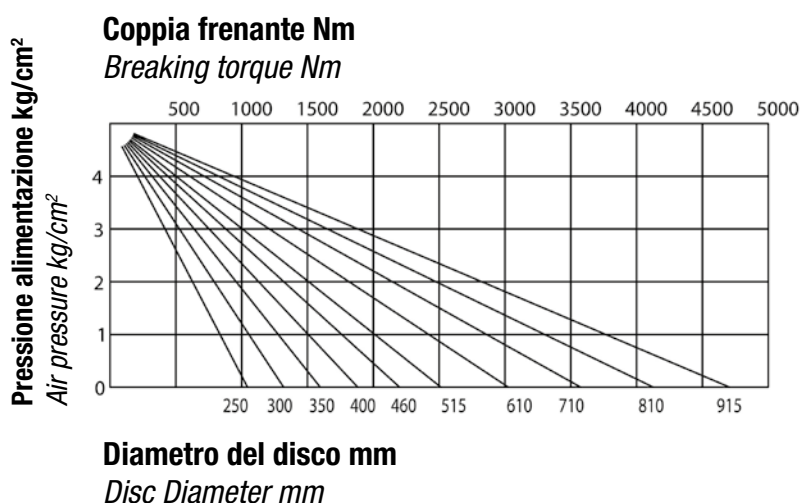


DATI TECNICI

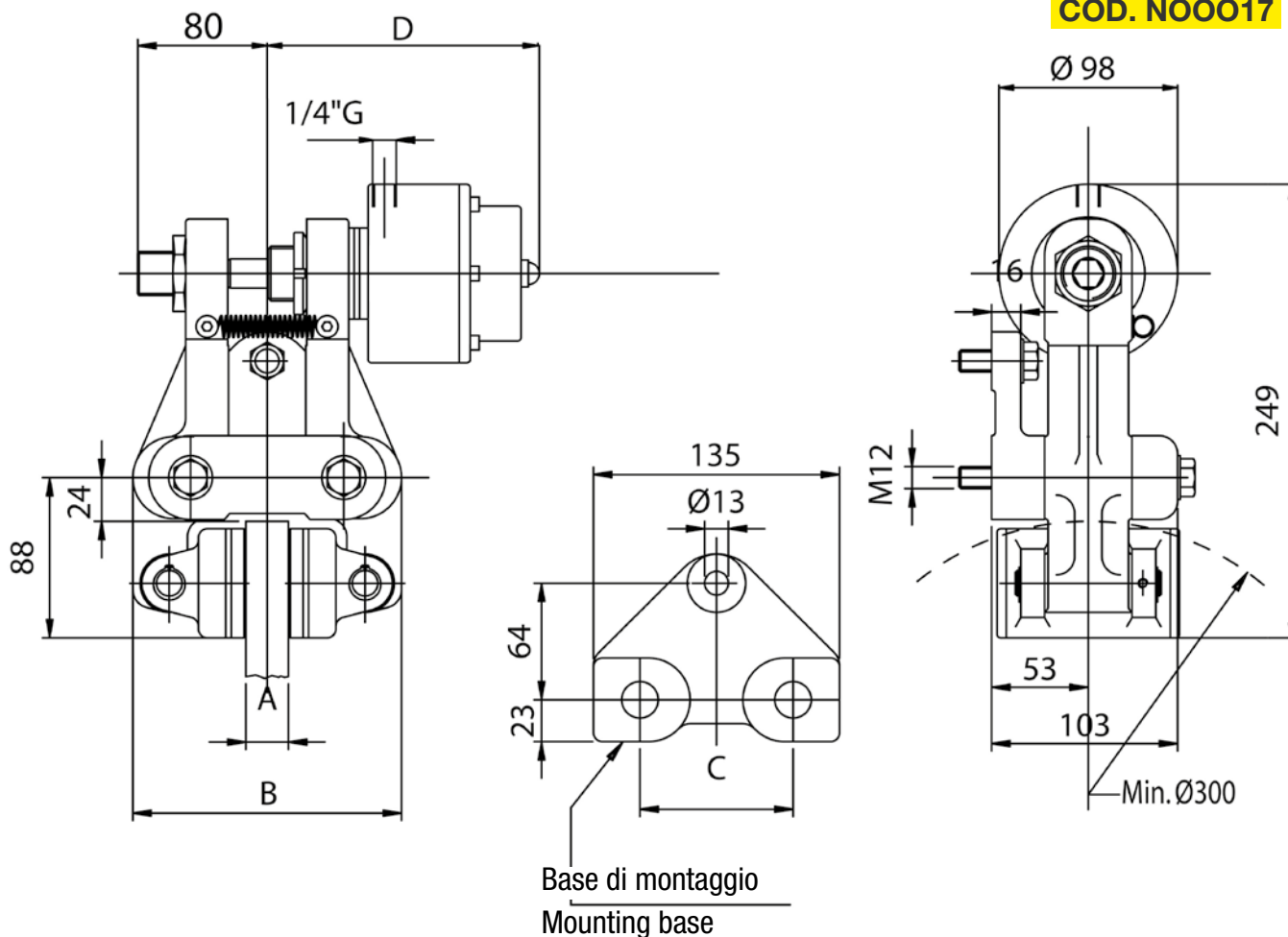
- Md forza frenante:
max 11000 N
- Coppia dinamica:
= $Md \cdot (\text{raggio disco in m} - 0,03) = Nm$
- Pressione minima apertura 5 bar
- Volume aria 0,7 dm³
- Peso 18,3 Kg

TECHNICAL DATA

- *Md braking force:*
max 11000 N
- *Dynamic torque:*
= $Md \cdot (\text{disc radius in m} - 0,03) = Nm$
- *Least pressure opening 5 bar*
- *Air volume 0,7 dm³*
- *Weight 18,3 Kg*



COD. NO0017



A	12.7	25.4	30	40
B	142	155	160	170
C	75	84	75	84
D	140	140	151	160

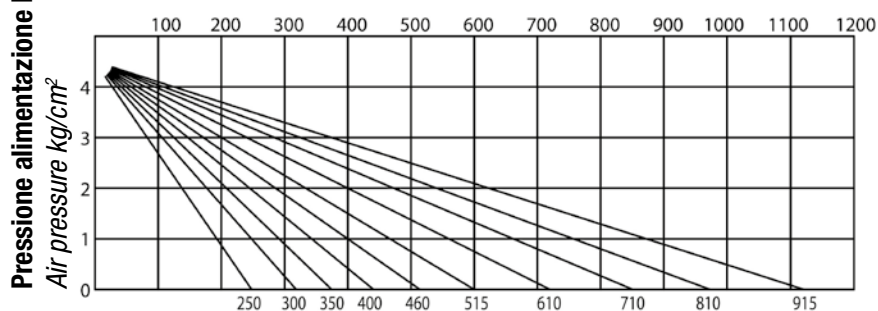
DATI TECNICI

- Md forza frenante:
max 2600 N
- Coppia dinamica:
= $Md \cdot (\text{raggio disco in m} - 0,033) = Nm$
- Pressione minima apertura 5 bar
- Volume aria 0,08 dm
- Peso 10 Kg

TECHNICAL DATA

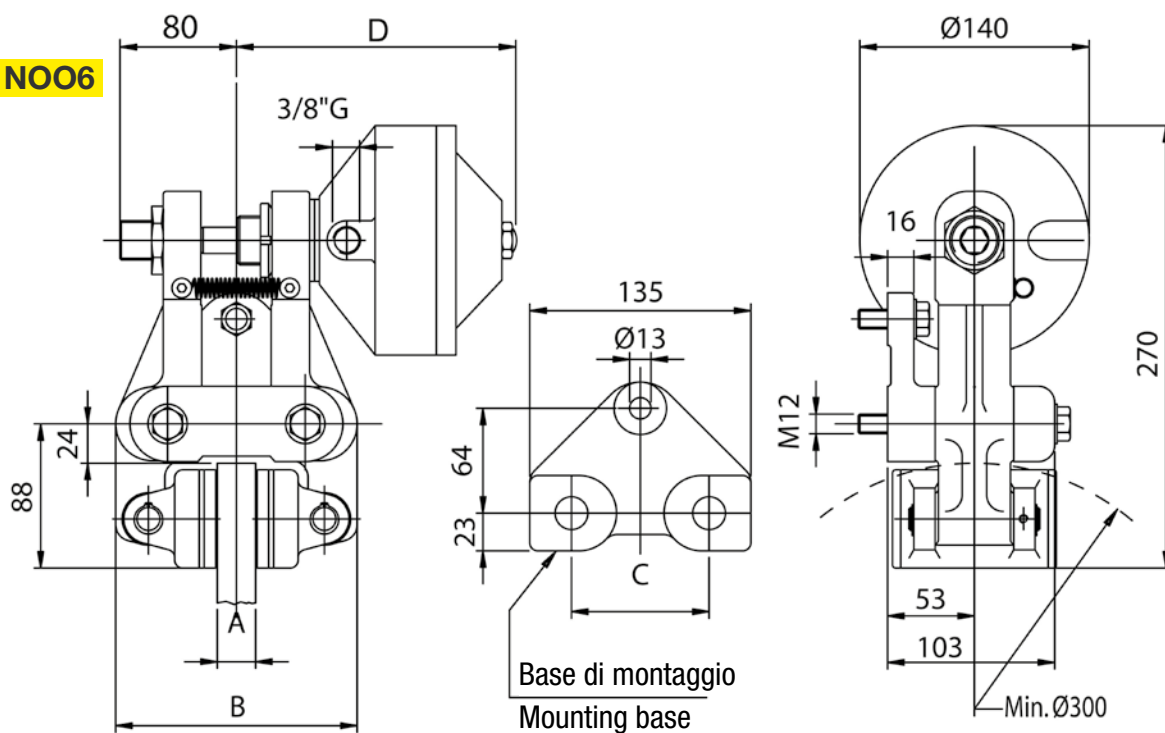
- Md braking force:
max 2600 N
- Dynamic torque:
= $Md \cdot (\text{disc radius in m} - 0,033) = Nm$
- Least pressure opening 5 bar
- Air volume 0,08 dm
- Weight 10 Kg

Coppia frenante Nm
Breaking torque Nm



Diametro del disco mm
Disc Diameter mm

COD. NO06



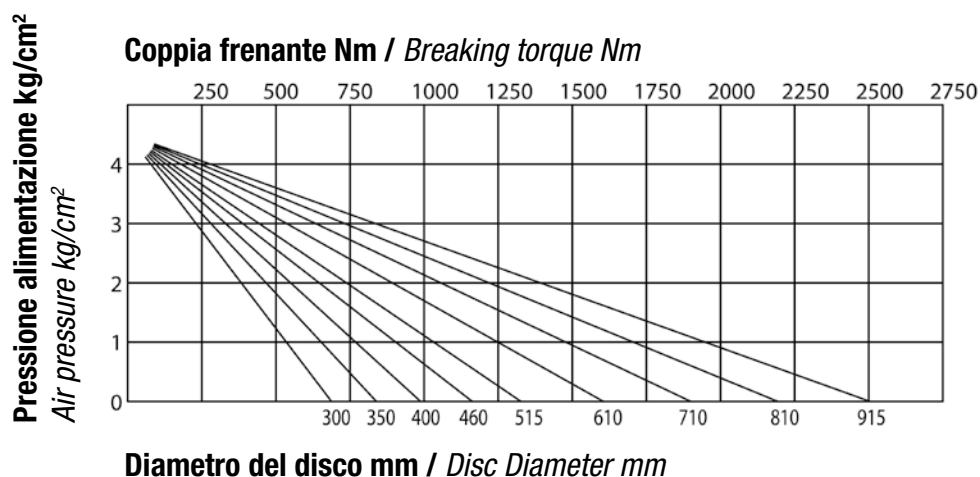
A	12.7	25.4	30	40
B	142	155	160	170
C	75	84	75	84
D	175	175	186	195

DATI TECNICI

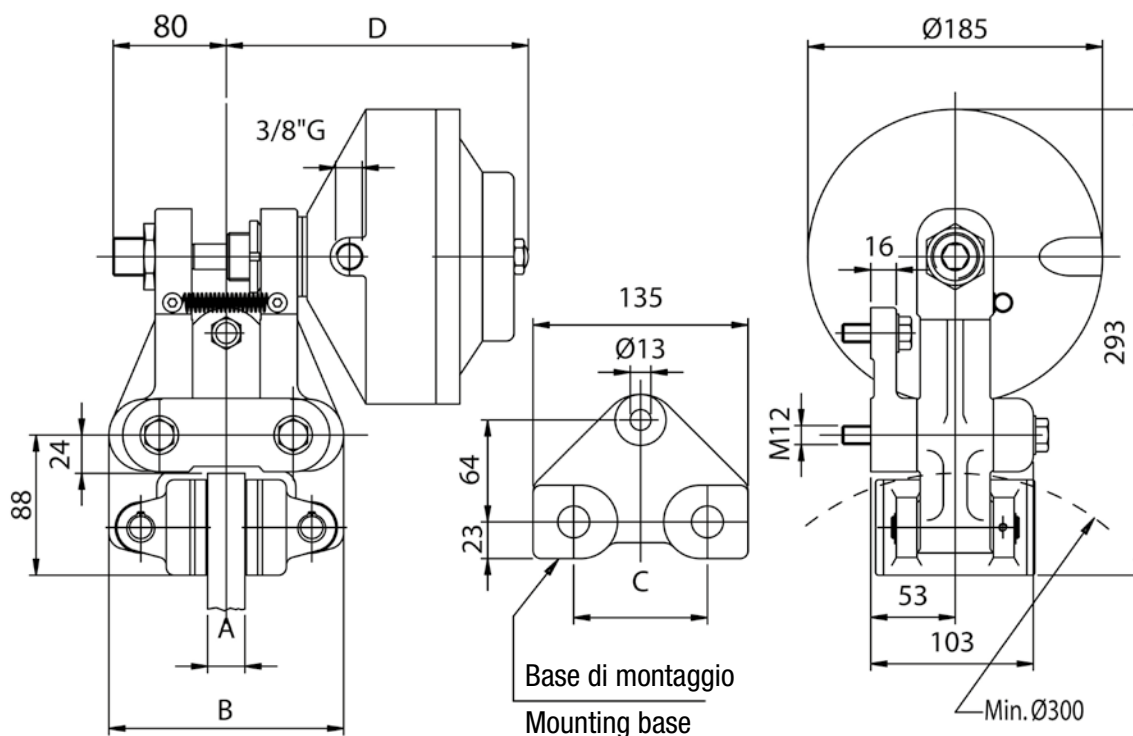
- Md forza frenante:
max 5900 N
- Coppia dinamica:
 $= Md \cdot (\text{raggio disco in m} - 0,033) = Nm$
- Pressione minima apertura 5 bar
- Volume aria 0,3 dm³
- Peso 13,4 Kg

TECHNICAL DATA

- Md braking force:
max 5900 N
- Dynamic torque:
 $= Md \cdot (\text{disc radius in m} - 0,033) = Nm$
- Least pressure opening 5 bar
- Air volume 0,3 dm³
- Weight 13,4 Kg



COD. NO07



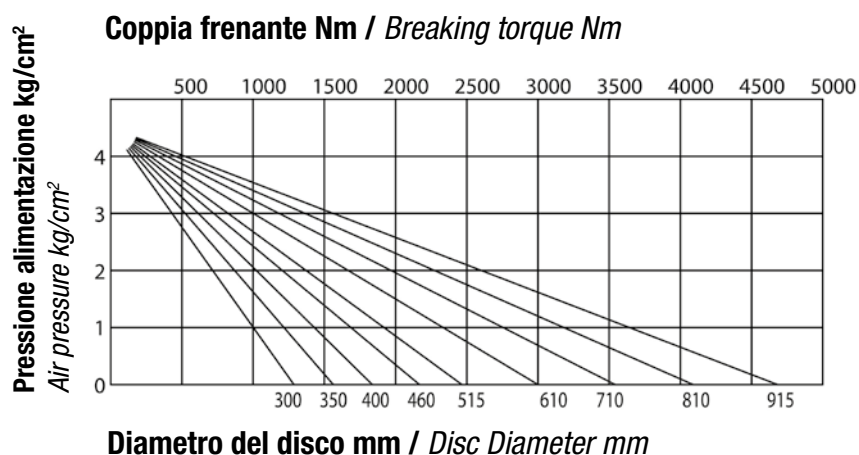
A	12.7	25.4	30	40
B	142	155	160	170
C	75	84	75	84
D	190	190	201	210

DATI TECNICI

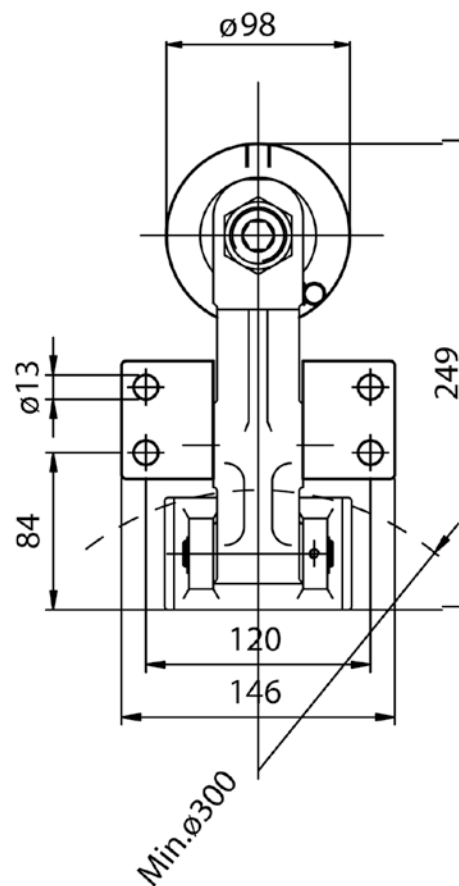
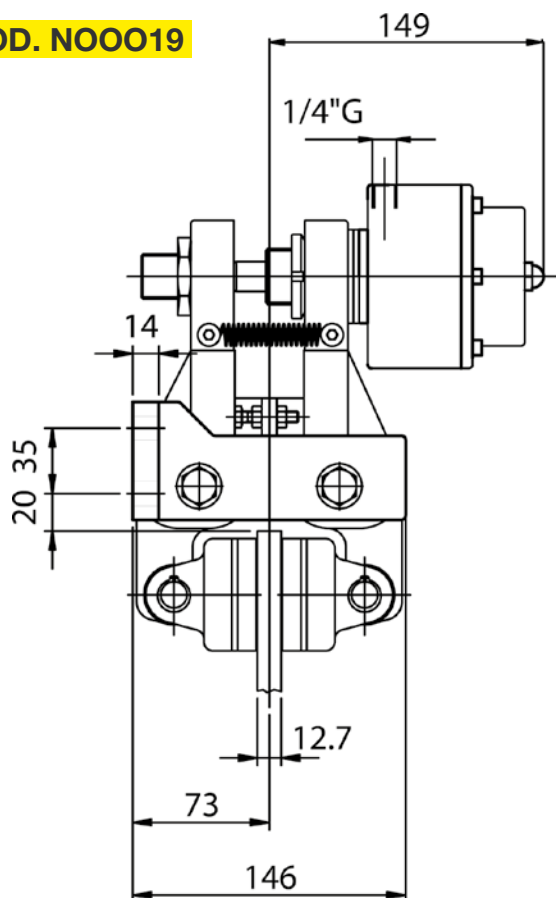
- Md forza frenante:
max 11000 N
- Coppia dinamica:
= $Md \cdot (\text{raggio disco in m} - 0,033) = Nm$
- Pressione minima apertura 5 bar
- Volume aria 0,7 dm³
- Peso 18,7 Kg

TECHNICAL DATA

- Md braking force:
max 11000 N
- Dynamic torque:
= $Md \cdot (\text{disc radius in m} - 0,033) = Nm$
- Least pressure opening 5 bar
- Air volume 0,7 dm³
- Weight 18,7 Kg



COD. NOOO19

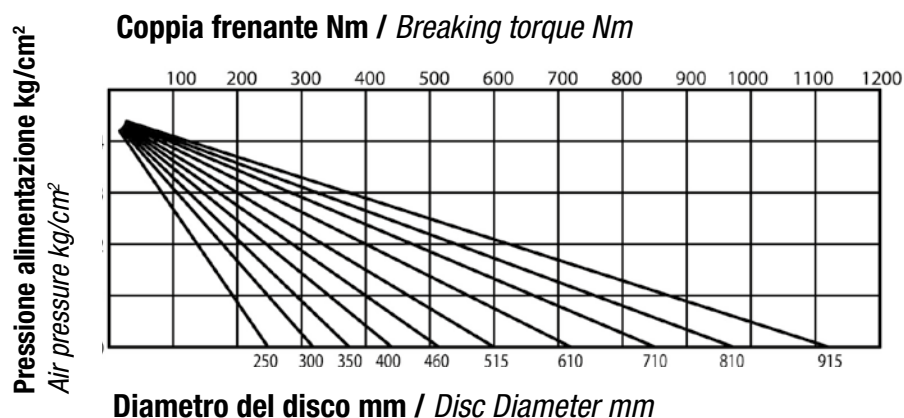


DATI TECNICI

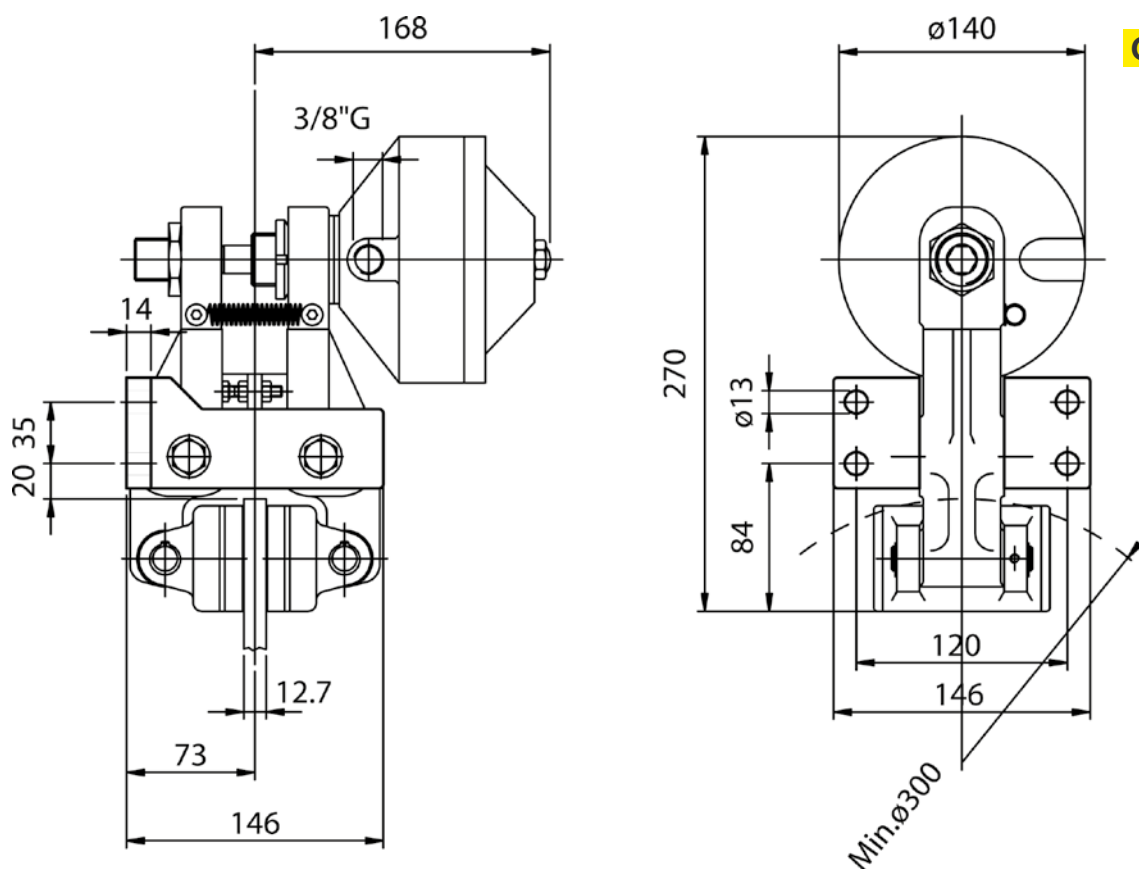
- Md forza frenante:
max 2600 N
- Coppia dinamica:
 $= Md \cdot (\text{raggio disco in m} - 0,033) = Nm$
- Pressione minima apertura 5 bar
- Volume aria 0,08 dm³
- Peso 10 Kg

TECHNICAL DATA

- Md braking force:
max 2600 N
- Dynamic torque:
 $= Md \cdot (\text{disc radius in m} - 0,033) = Nm$
- Least pressure opening 5 bar
- Air volume 0,08 dm³
- Weight 10 Kg



COD. NO08

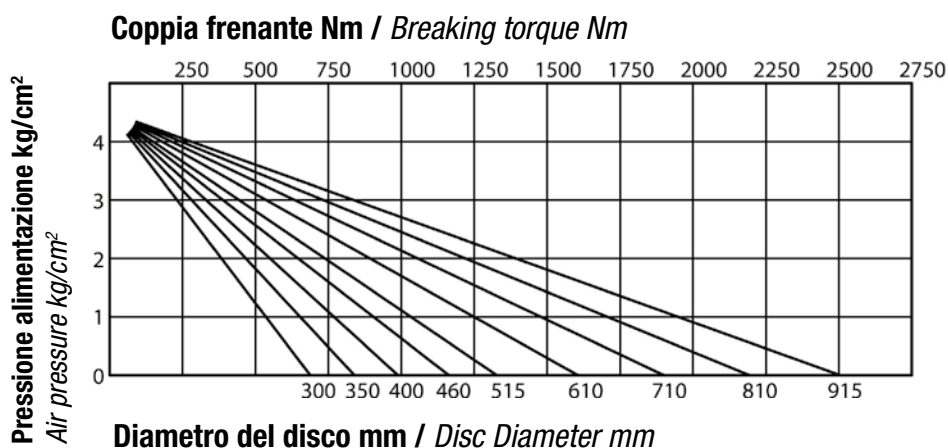


DATI TECNICI

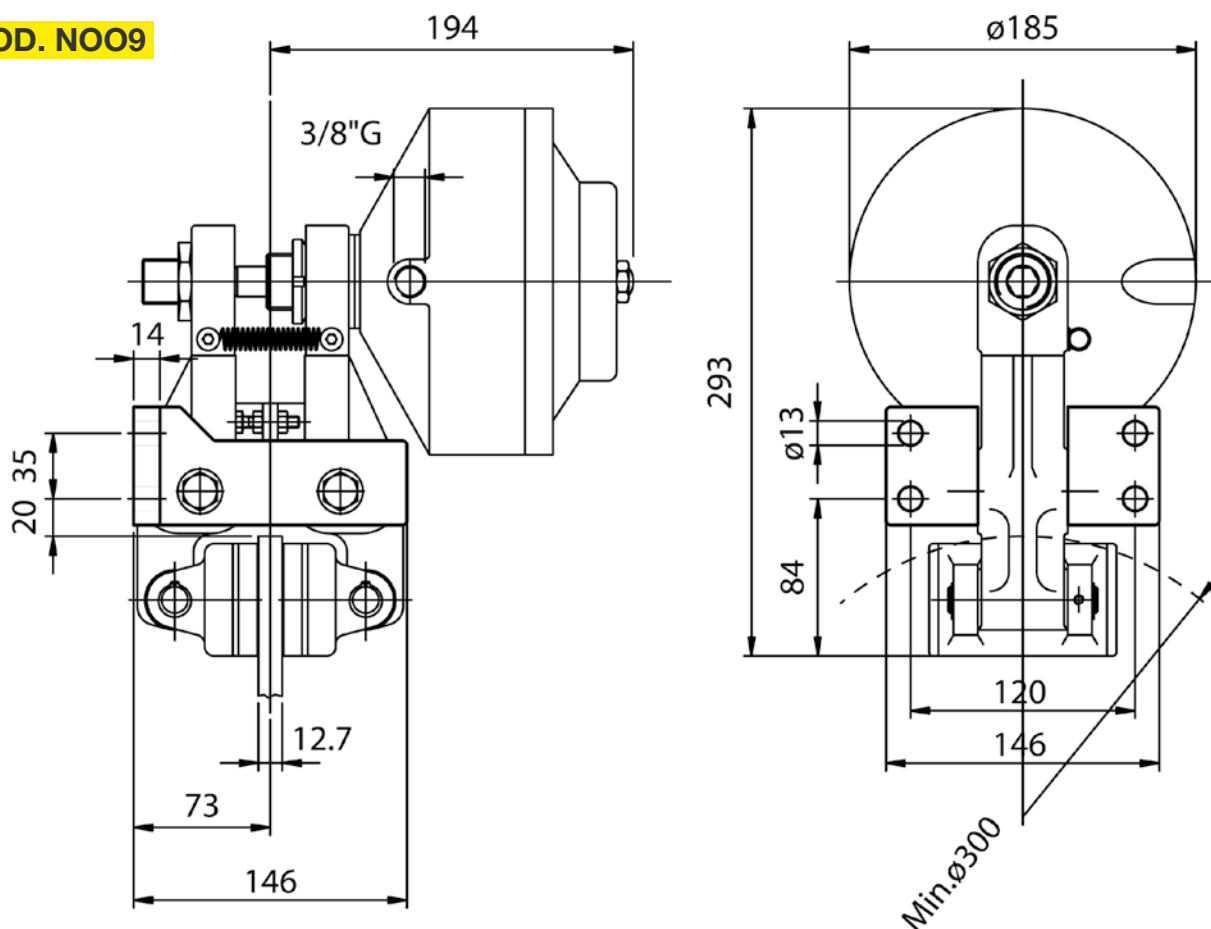
- Md forza frenante:
max 5900 N
- Coppia dinamica:
= $Md \cdot (\text{raggio disco in m} - 0,033) = \text{Nm}$
- Pressione minima apertura 5 bar
- Volume aria 0,3 dm³
- Peso 13,5 Kg

TECHNICAL DATA

- Md braking force:
max 5900 N
- Dynamic torque:
= $Md \cdot (\text{disc radius in m} - 0,033) = \text{Nm}$
- Least pressure opening 5 bar
- Air volume 0,3 dm³
- Weight 13,5 Kg



COD. NO09

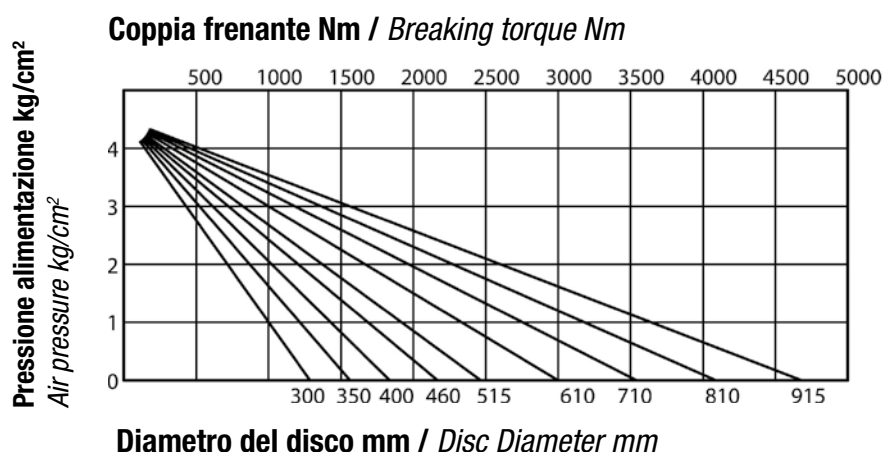


DATI TECNICI

- Md forza frenante:
max 11000 N
- Coppia dinamica:
 $= Md \cdot (\text{raggio disco in m} - 0,033) = Nm$
- Pressione minima apertura 5 bar
- Volume aria 0,7 dm³
- Peso 18,8 Kg

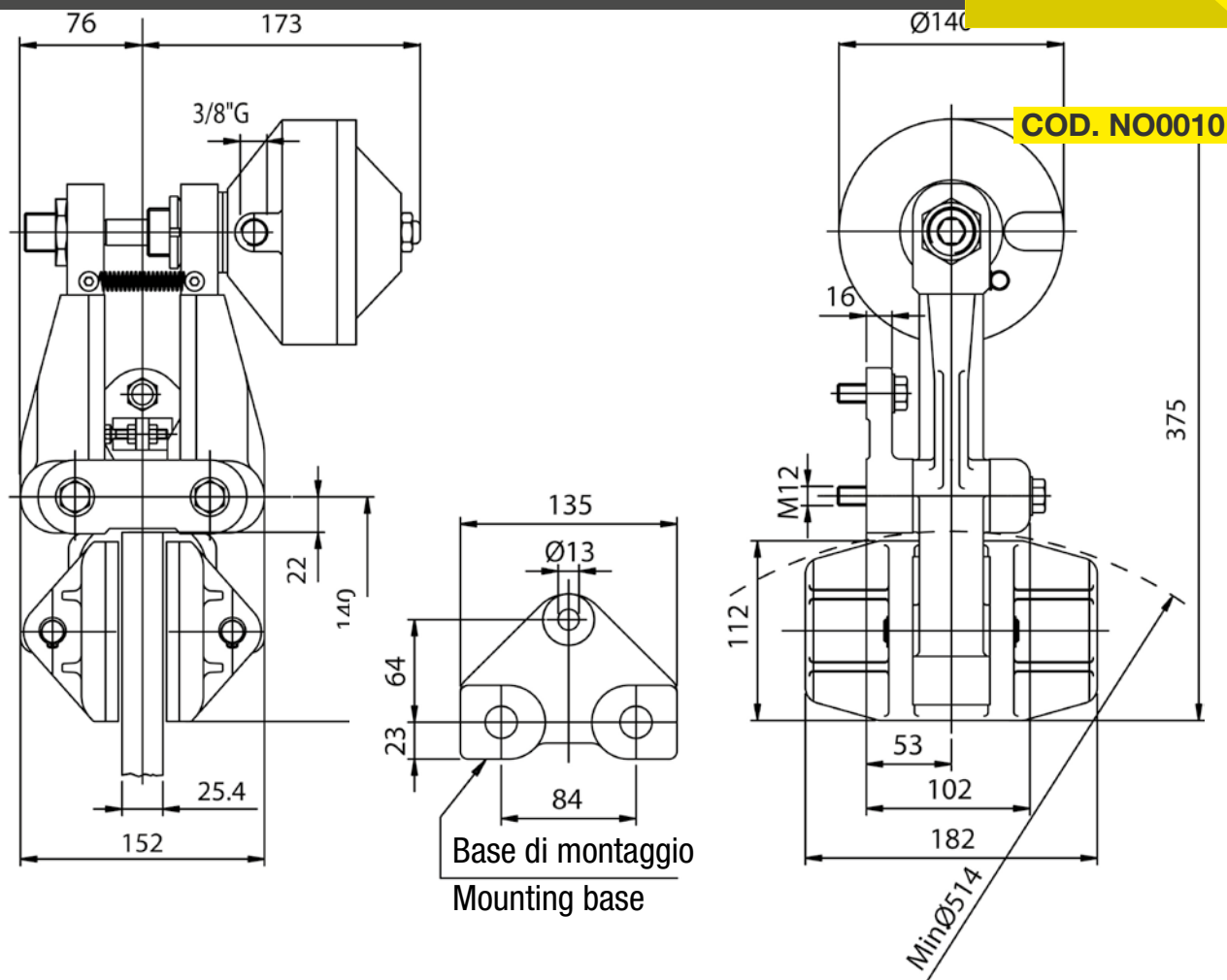
TECHNICAL DATA

- Md braking force:
max 11000 N
- Dynamic torque:
 $= Md \cdot (\text{disc radius in m} - 0,033) = Nm$
- Least pressure opening 5 bar
- Air volume 0,7 dm³
- Weight 18,8 Kg



PINZE PNEUMATICHE NEGATIVE *PNEUMATIC CALIPER BRAKES spring applied*
FRENO A PINZA - dimensioni e prestazioni
CALIPER BRAKE - dimension and performances

SPL/N2

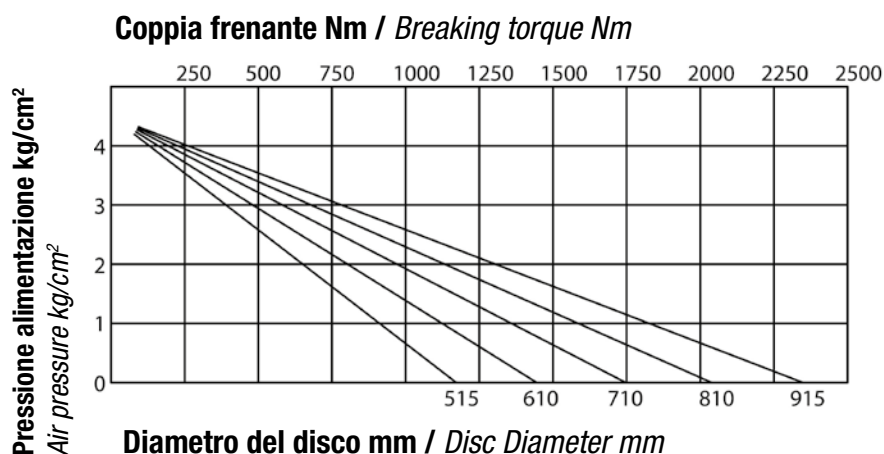


DATI TECNICI

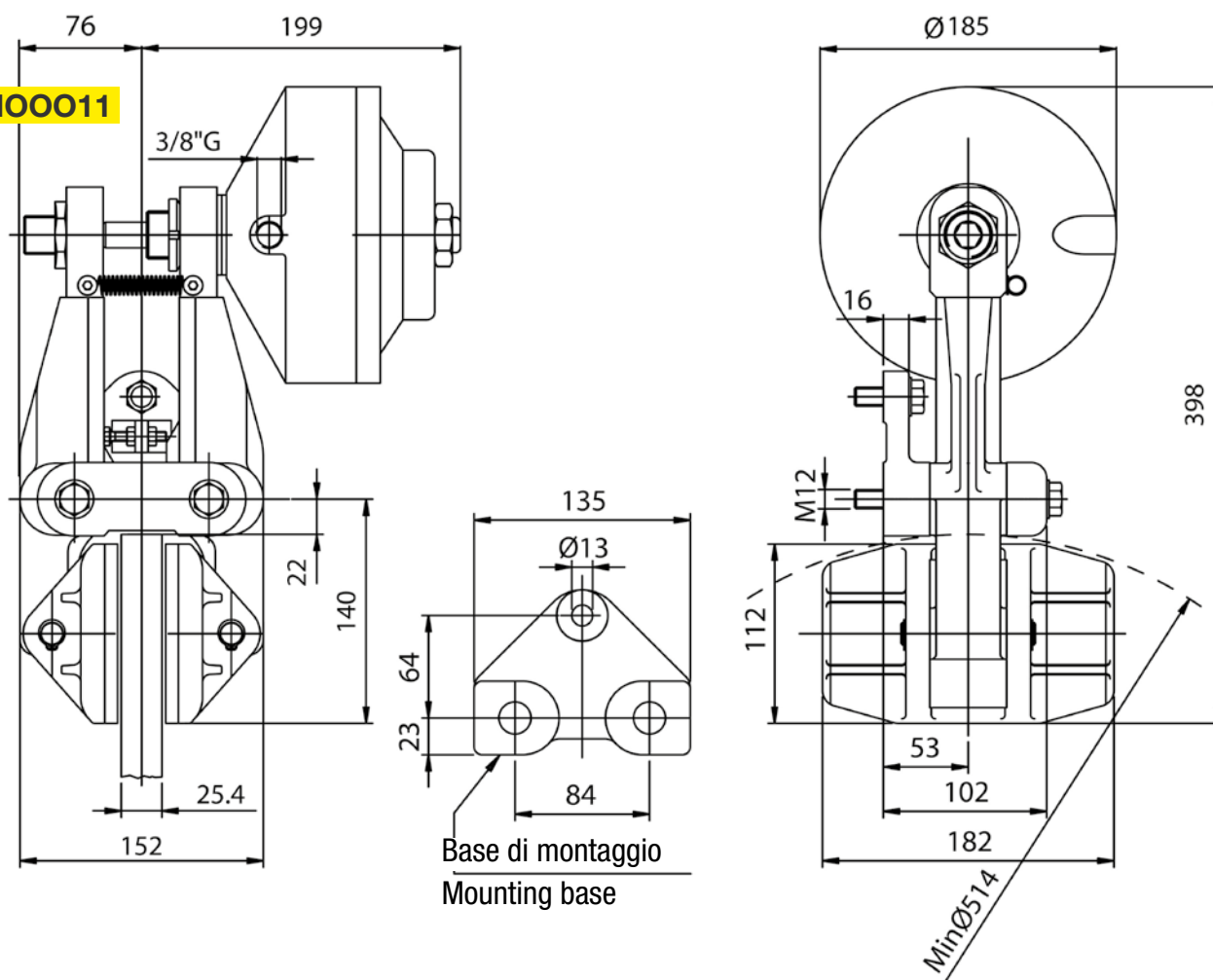
- Md forza frenante:
max 5900 N
- Coppia dinamica:
 $= Md \cdot (\text{raggio disco in m} - 0,062) = Nm$
- Pressione minima apertura 5 bar
- Volume aria 0,3 dm³
- Peso 19 Kg

TECHNICAL DATA

- Md braking force:
max 5900 N
- Dynamic torque:
 $= Md \cdot (\text{disc radius in m} - 0,062) = Nm$
- Least pressure opening 5 bar
- Air volume 0,3 dm³
- Weight 19 Kg



COD. NOOO11

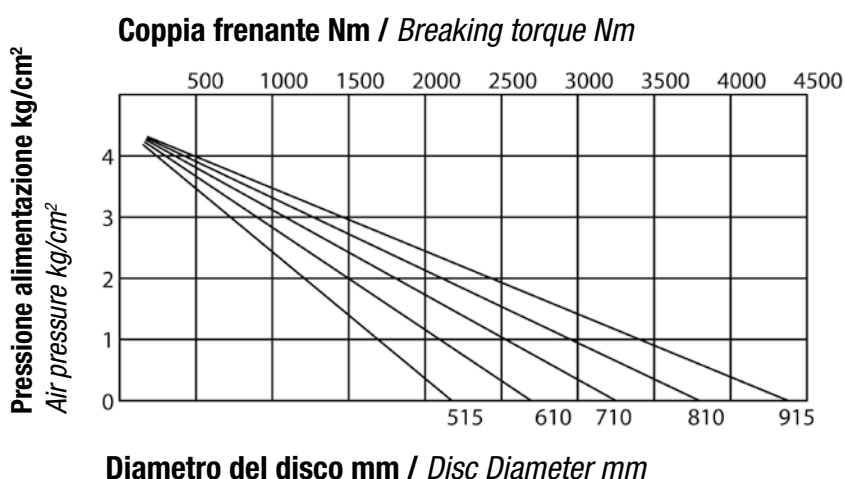


DATI TECNICI

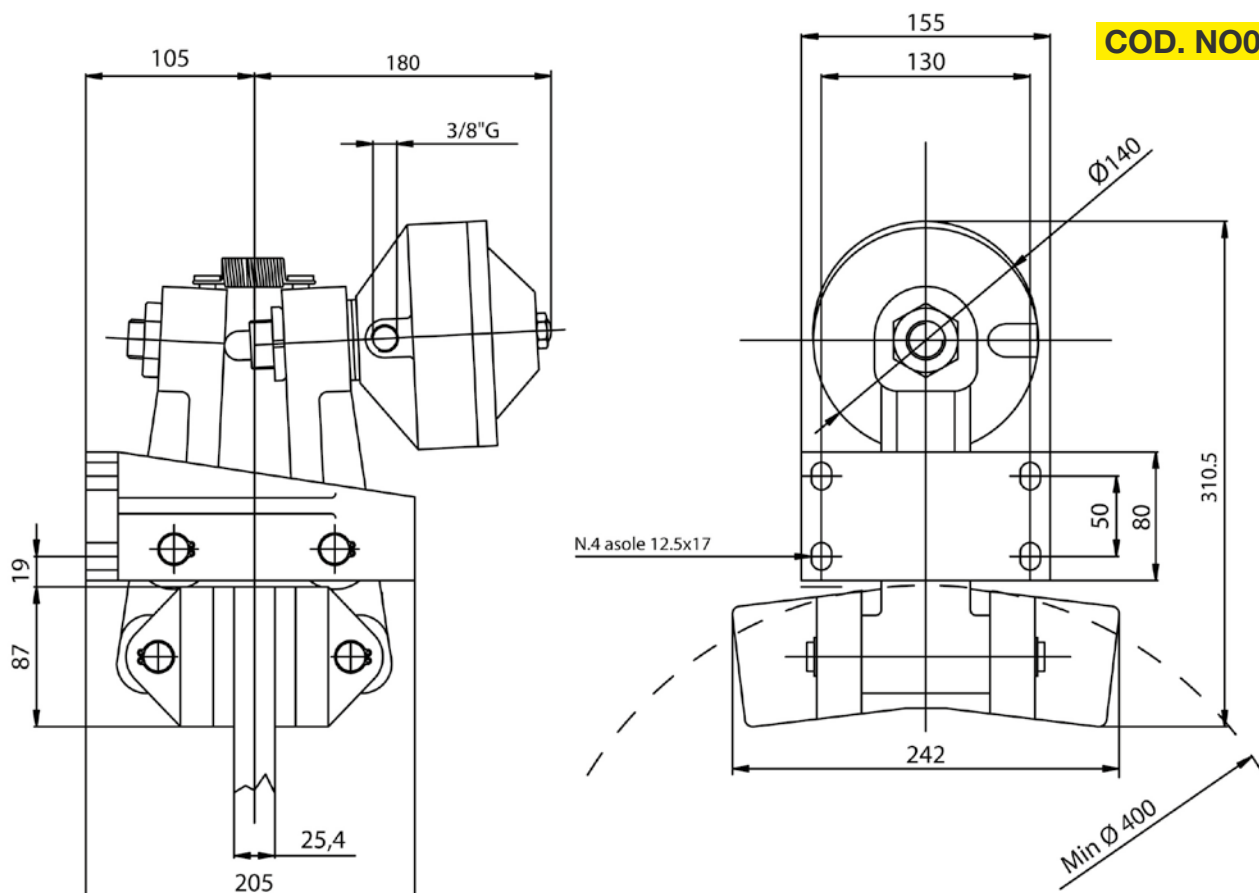
- Md forza frenante:
11000 N
- Coppia dinamica:
 $= Md \cdot (\text{raggio disco in m} - 0,062) = Nm$
- Pressione minima apertura 5 bar
- Volume aria 0,7 dm³
- Peso 24,3 Kg

TECHNICAL DATA

- Md braking force:
11000 N
- Dynamic torque:
 $= Md \cdot (\text{disc radius in m} - 0,062) = Nm$
- Least pressure opening 5 bar
- Air volume 0,7 dm³
- Weight 24,3 Kg



COD. NO0020

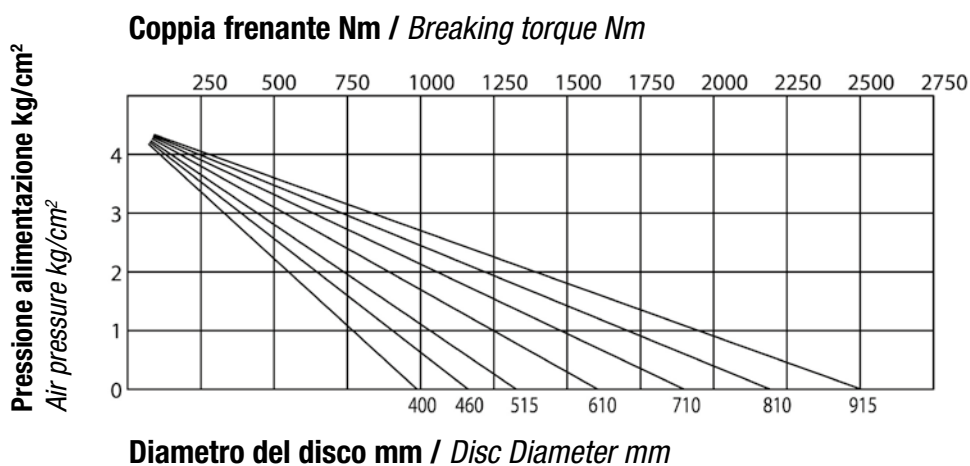


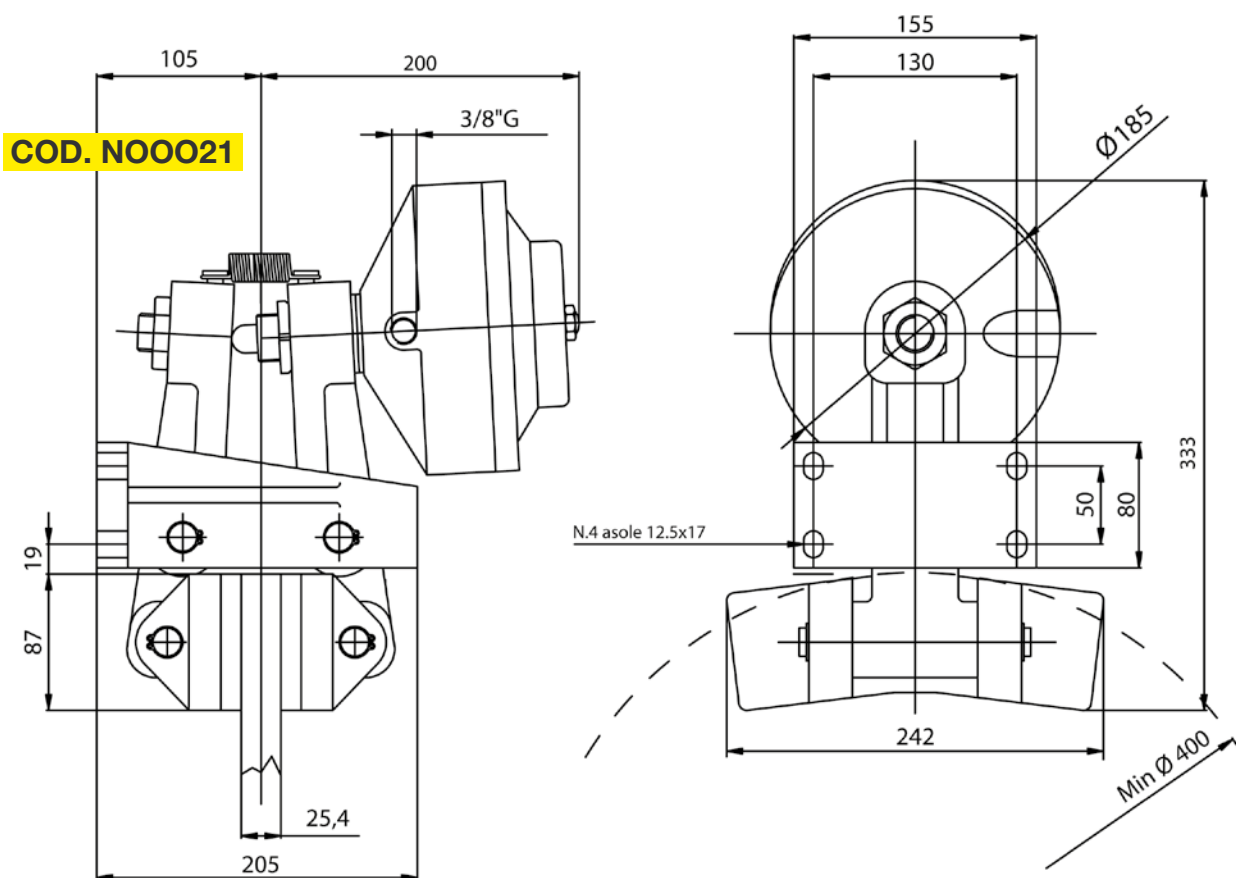
DATI TECNICI

- Md forza frenante:
5900 N
- Coppia dinamica:
= $Md \cdot (\text{raggio disco in m} - 0,045) = \text{Nm}$
- Pressione minima apertura 5 bar
- Volume aria 0,3 dm³
- Peso 23,5 Kg

TECHNICAL DATA

- Md braking force:
5900 N
- Dynamic torque:
= $Md \cdot (\text{disc radius in m} - 0,045) = \text{Nm}$
- Least pressure opening 5 bar
- Air volume 0,3 dm³
- Weight 23,5 Kg



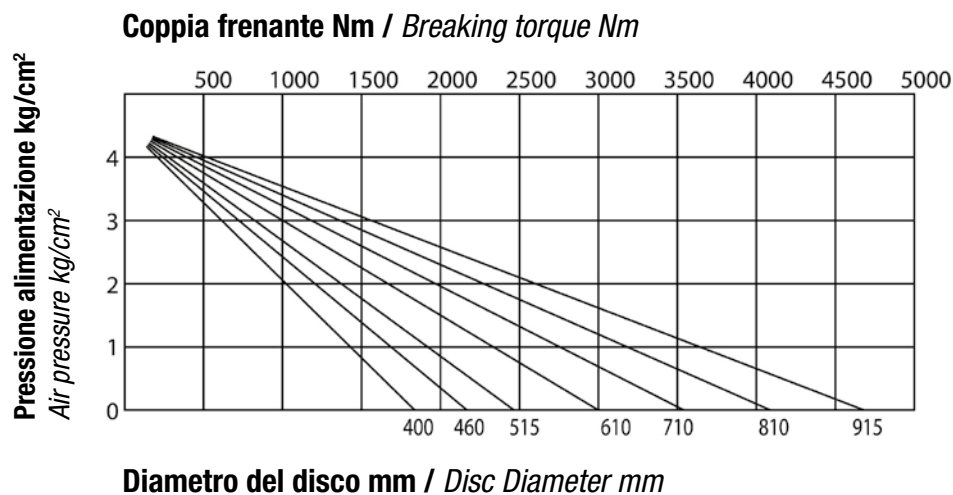


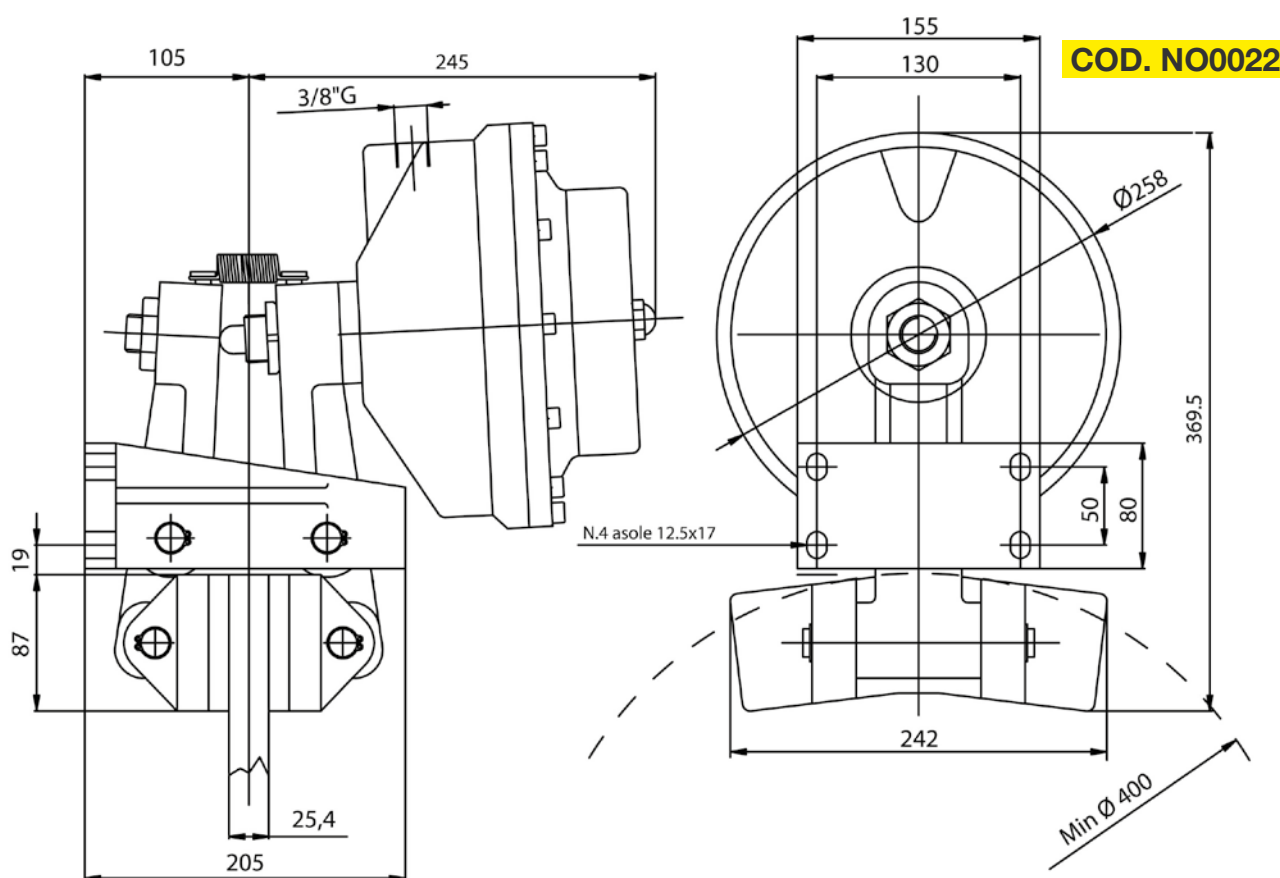
DATI TECNICI

- Md forza frenante:
11000 N
- Coppia dinamica:
 $= Md \cdot (\text{raggio disco in m} - 0,045) = Nm$
- Pressione minima apertura 5 bar
- Volume aria 0,7 dm³
- Peso 27 Kg

TECHNICAL DATA

- Md braking force:
11000 N
- Dynamic torque:
 $= Md \cdot (\text{disc radius in m} - 0,045) = Nm$
- Least pressure opening 5 bar
- Air volume 0,7 dm³
- Weight 27 Kg



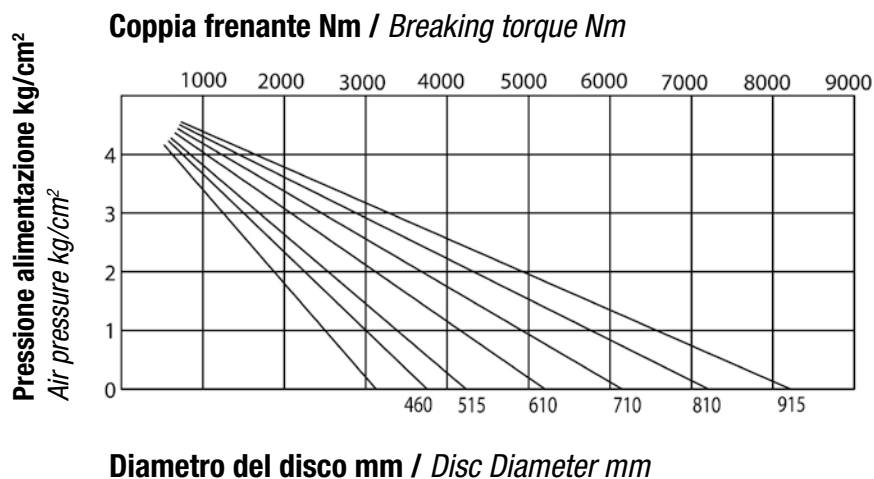


DATI TECNICI

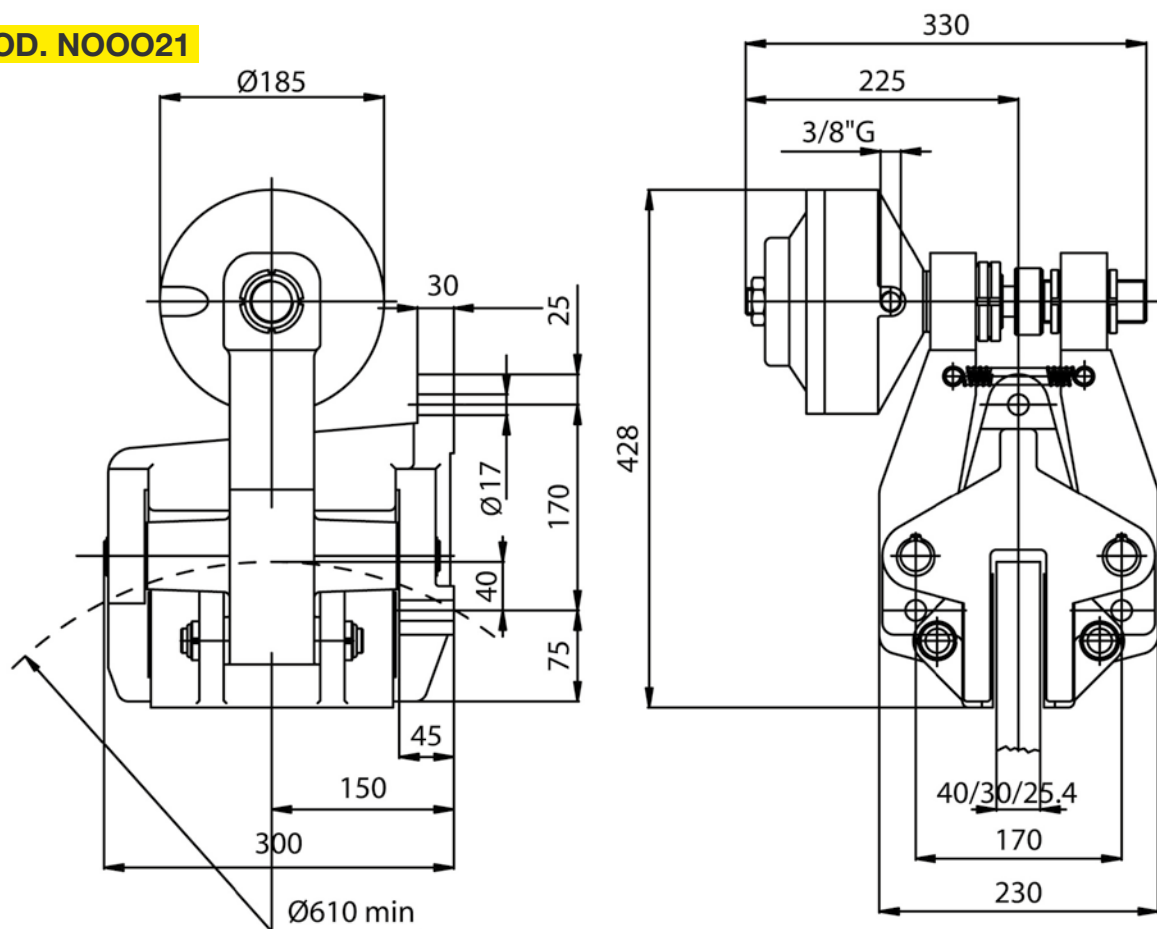
- Md forza frenante:
20000 N
- Coppia dinamica:
 $= Md \cdot (\text{raggio disco in m} - 0,045) = Nm$
- Pressione minima apertura 5 bar
- Volume aria 3 dm³
- Peso 42 Kg

TECHNICAL DATA

- Md braking force:
20000 N
- Dynamic torque:
 $= Md \cdot (\text{disc radius in m} - 0,045) = Nm$
- Least pressure opening 5 bar
- Air volume 3 dm³
- Weight 42 Kg



COD. NO0021

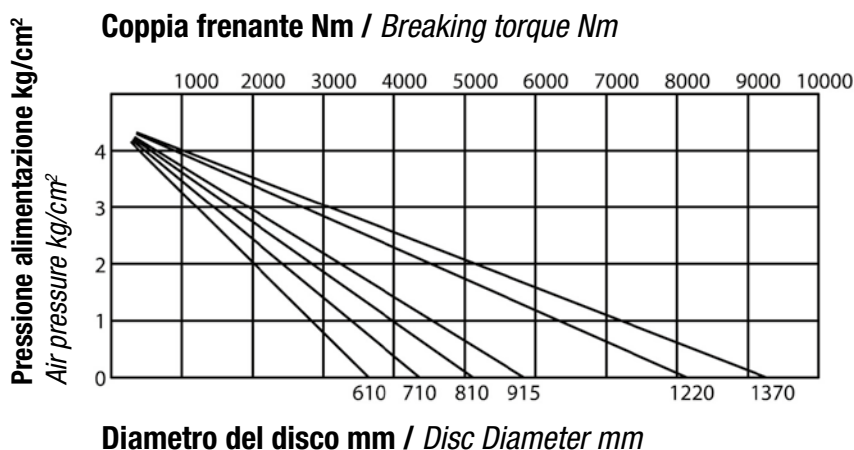


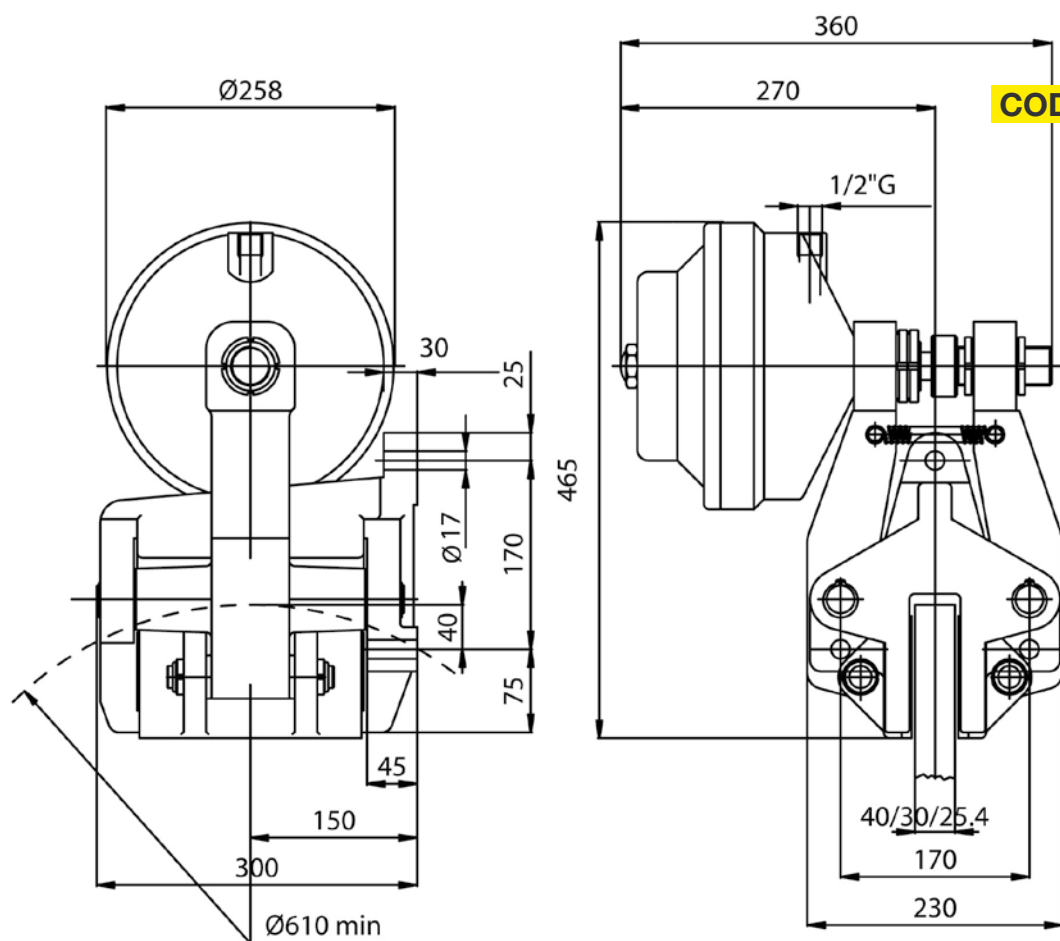
DATI TECNICI

- Md forza frenante:
14800 N
- Coppia dinamica:
 $= Md \cdot (\text{raggio disco in m} - 0,065) = Nm$
- Pressione minima apertura 5 bar
- Volume aria 0,7 dm³
- Peso 53 Kg

TECHNICAL DATA

- Md braking force:
14800 N
- Dynamic torque:
 $= Md \cdot (\text{disc radius in m} - 0,065) = Nm$
- Least pressure opening 5 bar
- Air volume 0,7 dm³
- Weight 53 Kg



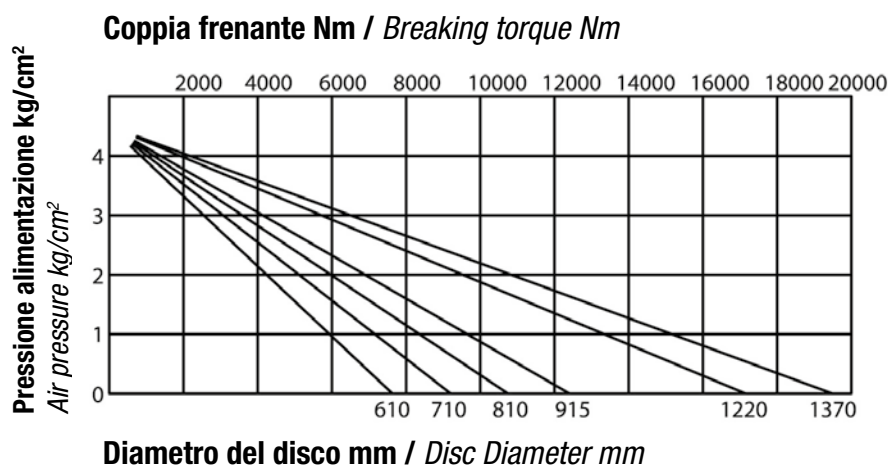


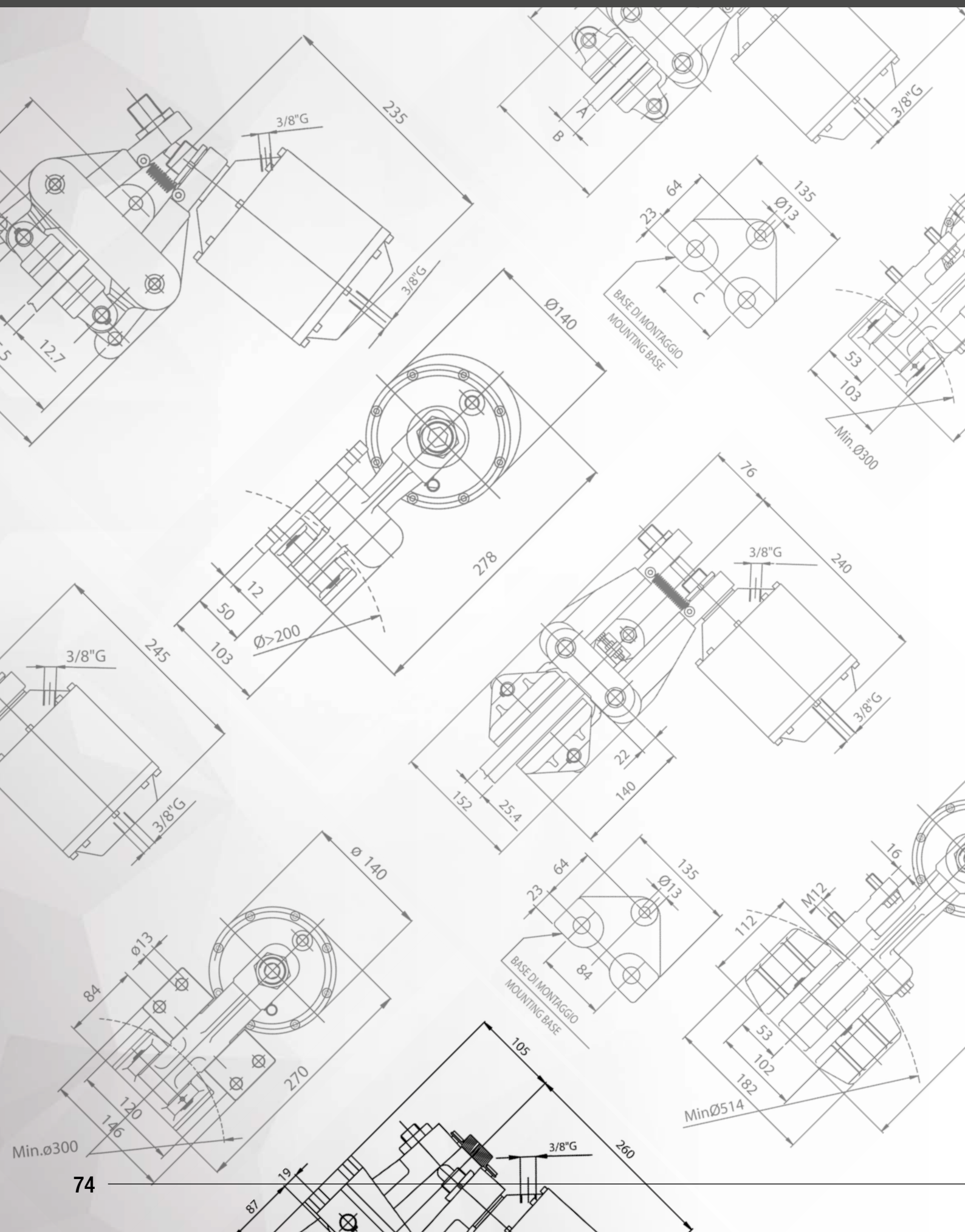
DATI TECNICI

- Md forza frenante:
max 31180 N
- Coppia dinamica:
= $Md \cdot (\text{raggio disco in m} - 0,065) = Nm$
- Pressione minima apertura 5 bar
- Volume aria 3 dm³
- Peso 67 Kg

TECHNICAL DATA

- *Md braking force:*
max 31180 N
- *Dynamic torque:*
= $Md \cdot (\text{disc radius in m} - 0,065) = Nm$
- *Least pressure opening 5 bar*
- *Air volume 3 dm³*
- *Weight 67 Kg*





DUPLEX POSITIVI E NEGATIVI

DUPLEX air applied and spring applied



I

freni combinati duplex consentono la doppia funzione-positiva e negativa.

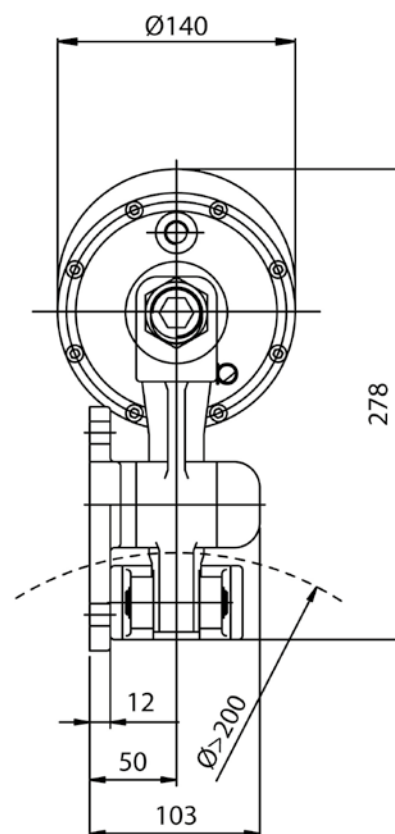
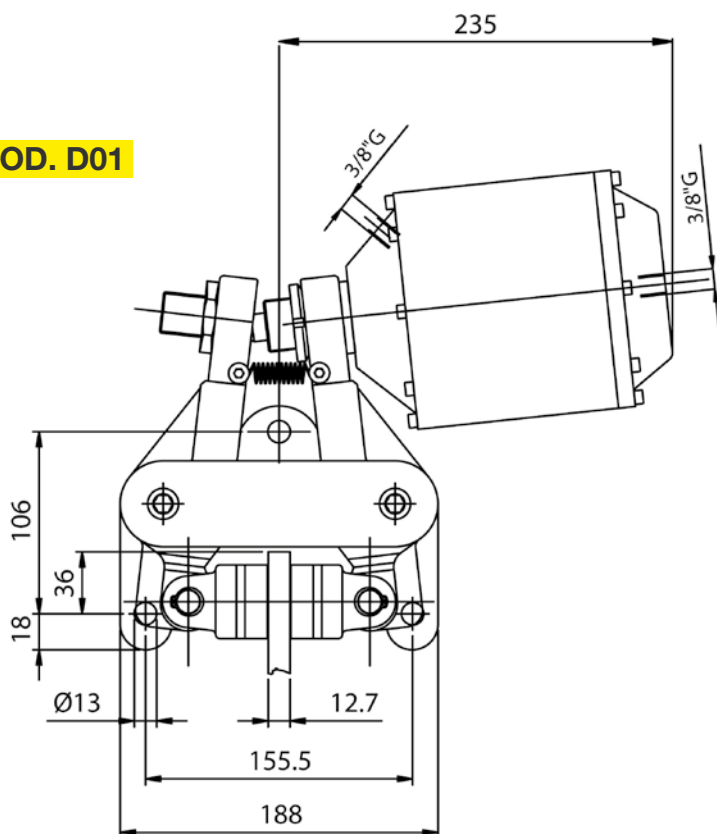
Risparmiando con una unica pinza costi e spazi.

T

he combined caliper brakers "duplex" has got the air applied-spring applied.

Double function so that with a single caliper brake you save costs and spaces.

COD. D01



DATI TECNICI

- Md forza frenante: Positivo 8050 N
Negativo a molle max 5900 N
- Coppia dinamica:
= $Md \cdot (\text{raggio disco in m} - 0,03) = Nm$
- Positivo: Pressione max 7 bar
Volume aria 0,4 dm²
- Negativo: Pressione minima apertura
5 bar Volume aria 0,3 dm²
- Peso 16 Kg

TECHNICAL DATA

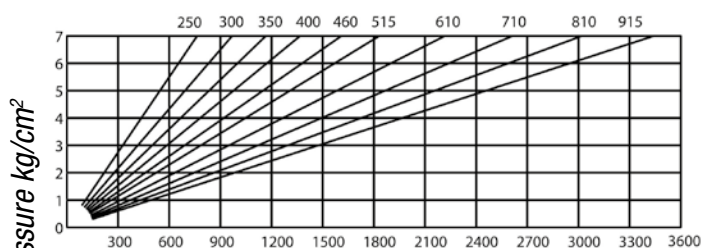
- Md braking force: Air applied 8050 N
Spring applied max 5900 N
- Dynamic torque:
= $Md \cdot (\text{disc radius in m} - 0,03) = Nm$
- Air applied : Max pressure 7 bar
Air volume 0,4 dm²
- Spring applied : Least pressure opening
5 bar Air volume 0,3 dm²
- Weight 16 Kg

Pressione alimentazione kg/cm²
Air pressure kg/cm²

Diametro del disco mm

Disc Diameter mm

POSITIVO - AIR APPLIED



Coppia frenante Nm

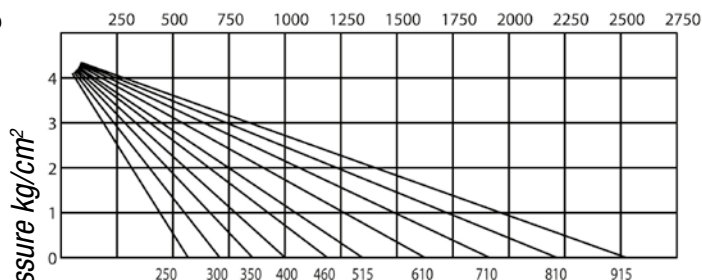
Breaking torque Nm

Pressione alimentazione kg/cm²
Air pressure kg/cm²

Diametro del disco mm

Disc Diameter mm

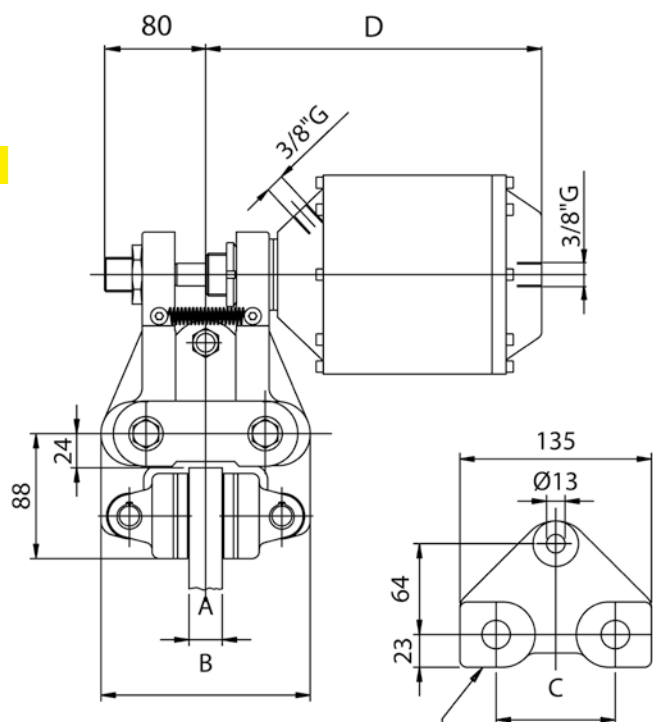
NEGATIVO - SPRING APPLIED



Coppia frenante Nm

Breaking torque Nm

COD. D02



Base di montaggio
Mounting base

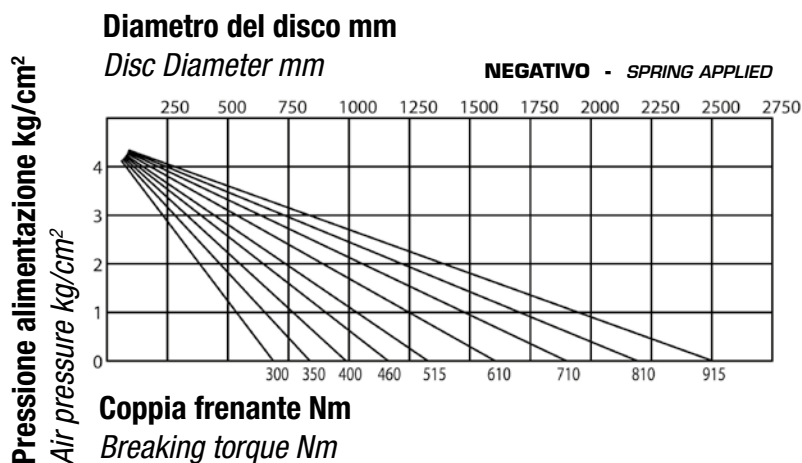
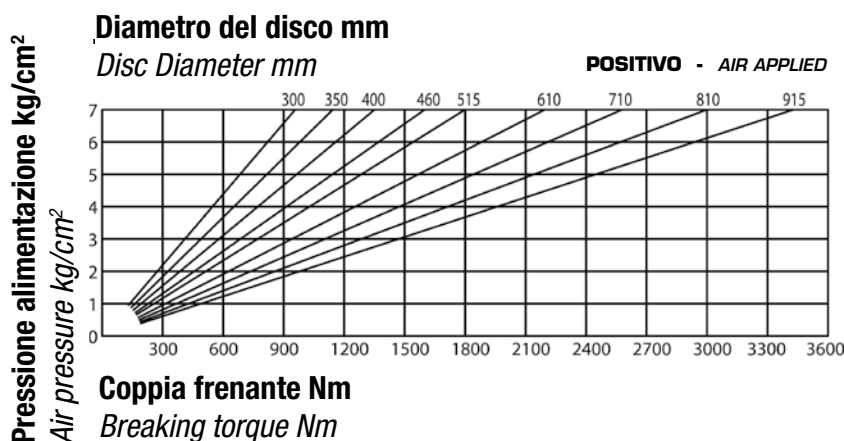
A	12.7	25.4	30	40
B	142	155	160	170
C	75	84	75	84
D	245	245	256	265

DATI TECNICI

- Md forza frenante: Positivo 8050 N
Negativo a molle max 5900 N
- Coppia dinamica:
 $= Md \cdot (\text{raggio disco in m} - 0,03) = Nm$
- Positivo: Pressione max 7 bar
Volume aria 0,4 dm²
- Negativo: Pressione minima apertura
5 bar Volume aria 0,3 dm²
- Peso 16,4 Kg

TECHNICAL DATA

- Md braking force: Air applied 8050 N
Spring applied max 5900 N
- Dynamic torque:
 $= Md \cdot (\text{disc radius in m} - 0,03) = Nm$
- Air applied : Max pressure 7 bar
Air volume 0,4 dm²
- Spring applied : Least pressure opening
5 bar Air volume 0,3 dm²
- Weight 16,4 Kg



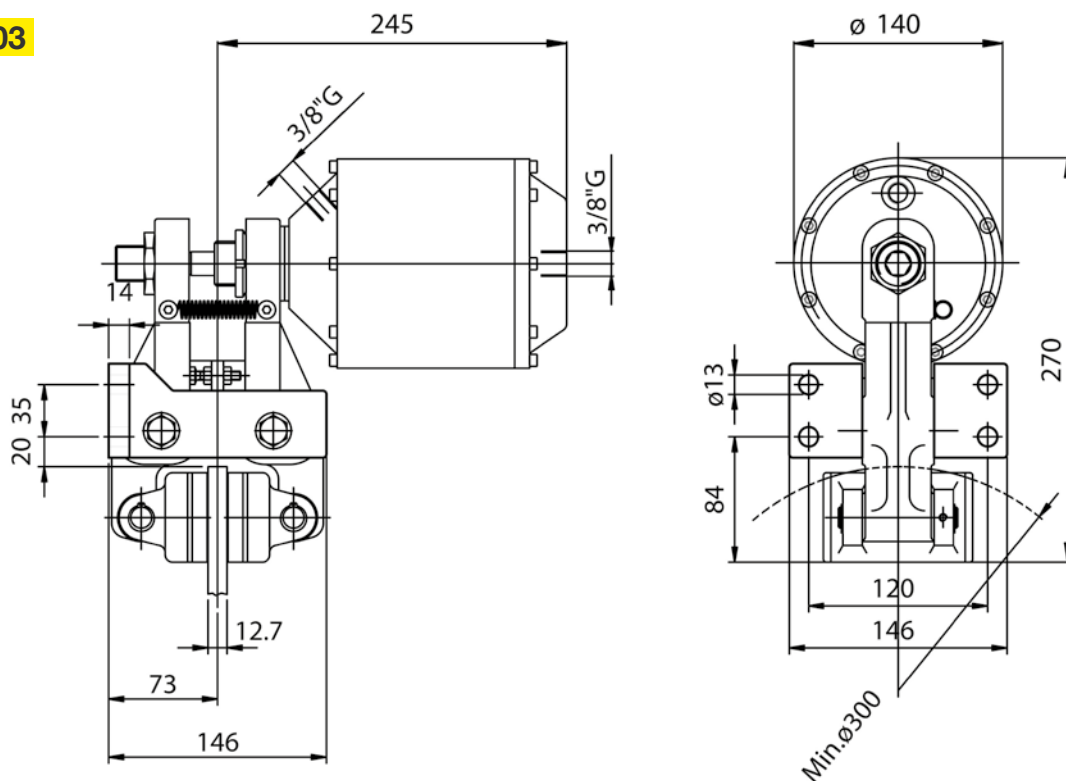
SPH DUPLEX 2

DUPLEX POSITIVI E NEGATIVI *DUPLEX air applied and spring applied*

FRENO A PINZA - dimensioni e prestazioni

CALIPER BRAKE - dimension and performances

COD. D03



DATI TECNICI

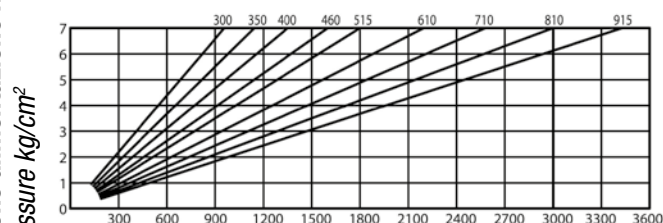
- Md forza frenante: Positivo 8050 N
Negativo a molle max 5900 N
- Coppia dinamica:
 $= Md \cdot (\text{raggio disco in m} - 0,03) = Nm$
- Positivo: Pressione max 7 bar
Volume aria 0,4 dm²
- Negativo: Pressione minima apertura
5 bar Volume aria 0,3 dm²
- Peso 16,4 Kg

Pressione alimentazione kg/cm²
Air pressure kg/cm²

Diametro del disco mm

Disc Diameter mm

POSITIVO - AIR APPLIED



Coppia frenante Nm

Breaking torque Nm

TECHNICAL DATA

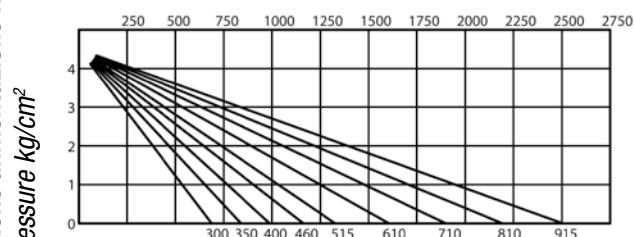
- Md braking force: Air applied 8050 N
Spring applied max 5900 N
- Dynamic torque:
 $= Md \cdot (\text{disc radius in m} - 0,03) = Nm$
- Air applied : Max pressure 7 bar
Air volume 0,4 dm²
- Spring applied : Least pressure opening
5 bar Air volume 0,3 dm²
- Weight 16,4 Kg

Pressione alimentazione kg/cm²
Air pressure kg/cm²

Diametro del disco mm

Disc Diameter mm

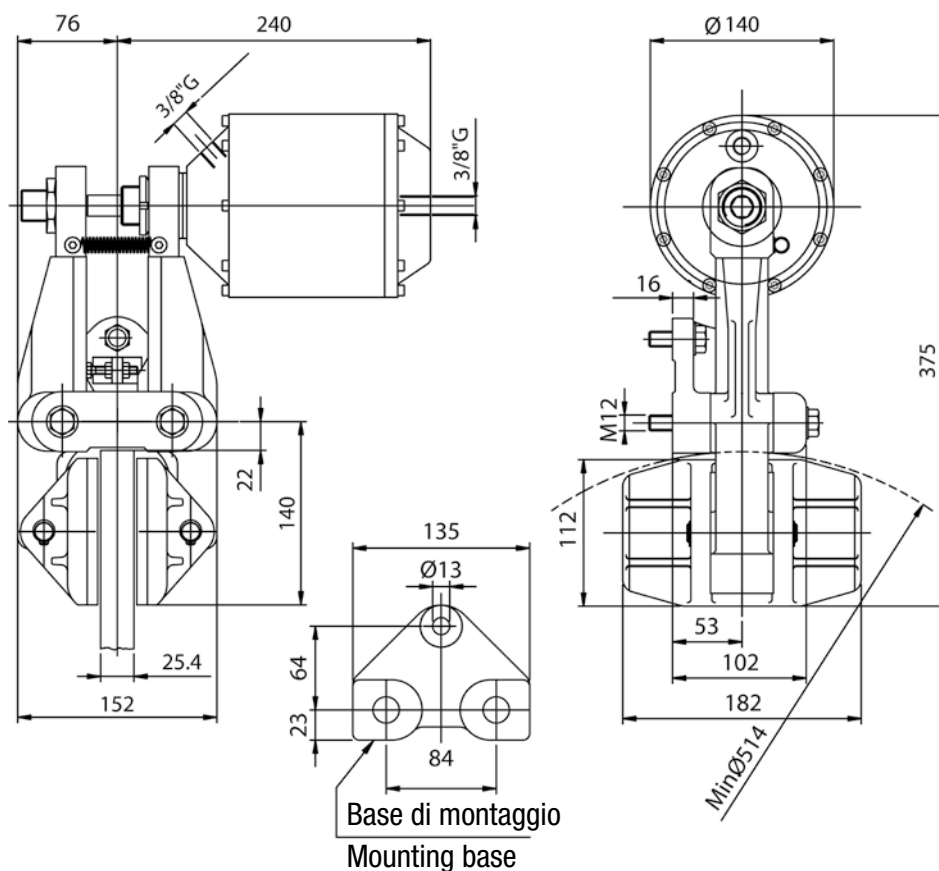
NEGATIVO - SPRING APPLIED



Coppia frenante Nm

Breaking torque Nm

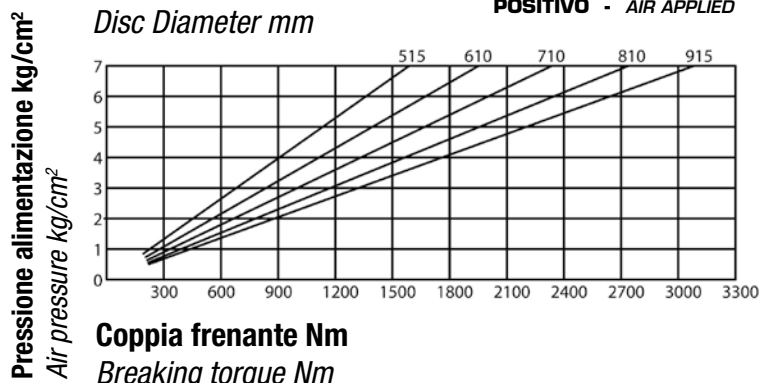
COD. D04



Diametro del disco mm

Disc Diameter mm

POSITIVO - AIR APPLIED



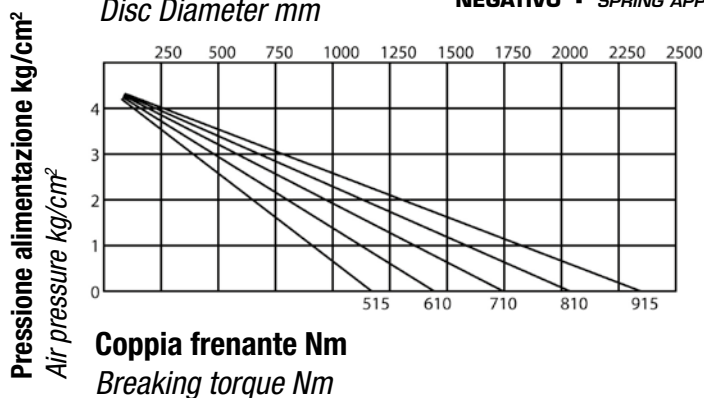
DATI TECNICI

- Md forza frenante: Positivo 8050 N
Negativo a molle max 5900 N
- Coppia dinamica:
= $Md \cdot (\text{raggio disco in m} - 0,062) = Nm$
- Positivo: Pressione max 7 bar
Volume aria 0,4 dm²
- Negativo: Pressione minima apertura
5 bar Volume aria 0,3 dm²
- Peso 22,4 Kg

Diametro del disco mm

Disc Diameter mm

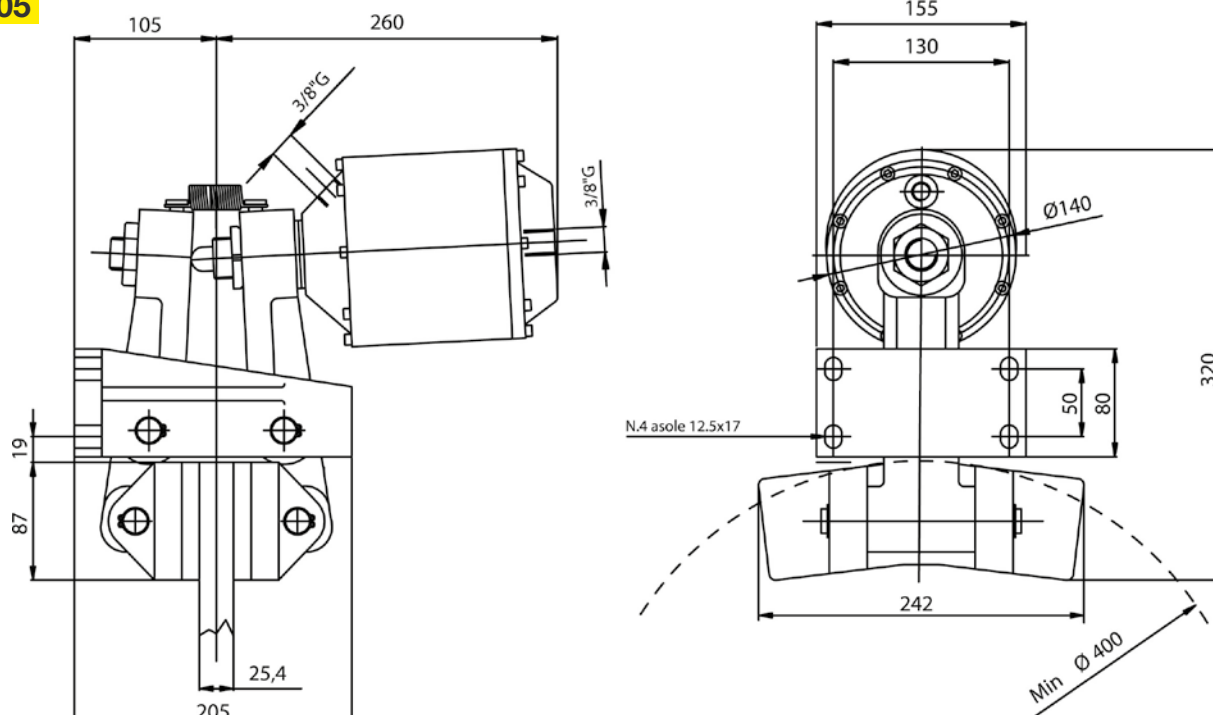
NEGATIVO - SPRING APPLIED



TECHNICAL DATA

- *Md braking force: Air applied 8050 N
Spring applied max 5900 N*
- *Dynamic torque:*
= $Md \cdot (\text{disc radius in m} - 0,062) = Nm$
- *Air applied : Max pressure 7 bar
Air volume 0,4 dm²*
- *Spring applied : Least pressure opening
5 bar Air volume 0,3 dm²*
- *Weight 22,4 Kg*

COD. D05



DATI TECNICI

- Md forza frenante: Positivo 8050 N
Negativo a molle max 5900 N
- Coppia dinamica:
= $Md \cdot (\text{raggio disco in m} - 0,045) = Nm$
- Positivo: Pressione max 7 bar
Volume aria 0,4 dm²
- Negativo: Pressione minima apertura
5 bar Volume aria 0,3 dm²
- Peso 27,5 Kg

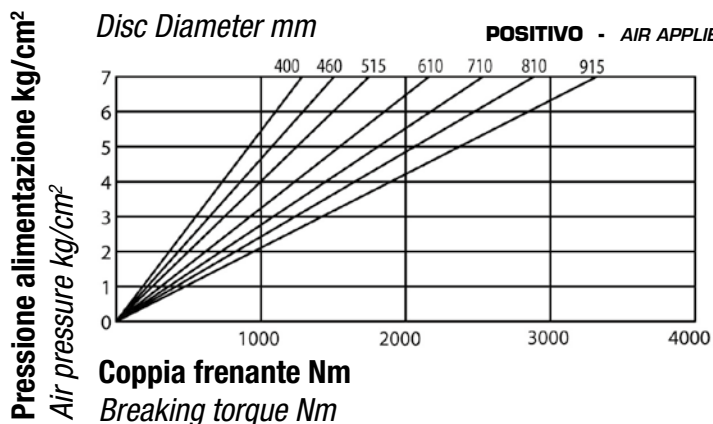
TECHNICAL DATA

- *Md braking force: Air applied 8050 N
Spring applied max 5900 N*
- *Dynamic torque:*
= $Md \cdot (\text{disc radius in m} - 0,045) = Nm$
- *Air applied : Max pressure 7 bar
Air volume 0,4 dm²*
- *Spring applied : Least pressure opening
5 bar Air volume 0,3 dm²*
- *Weight 27,5 Kg*

Diametro del disco mm

Disc Diameter mm

POSITIVO - AIR APPLIED



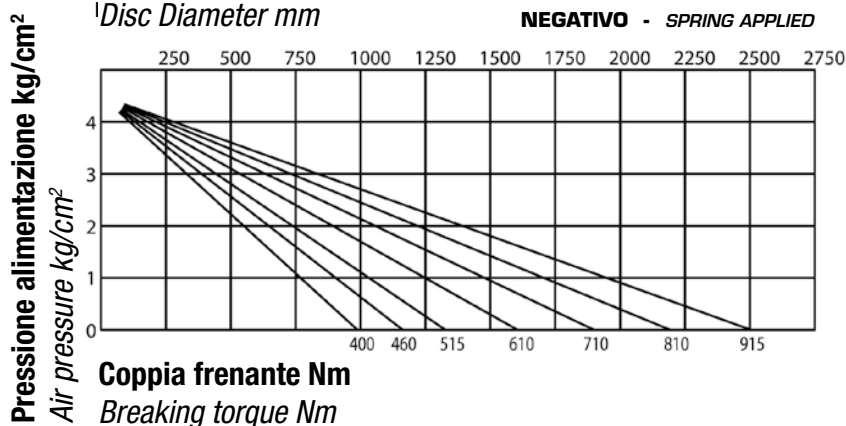
Coppia frenante Nm

Breaking torque Nm

Diametro del disco mm

Disc Diameter mm

NEGATIVO - SPRING APPLIED



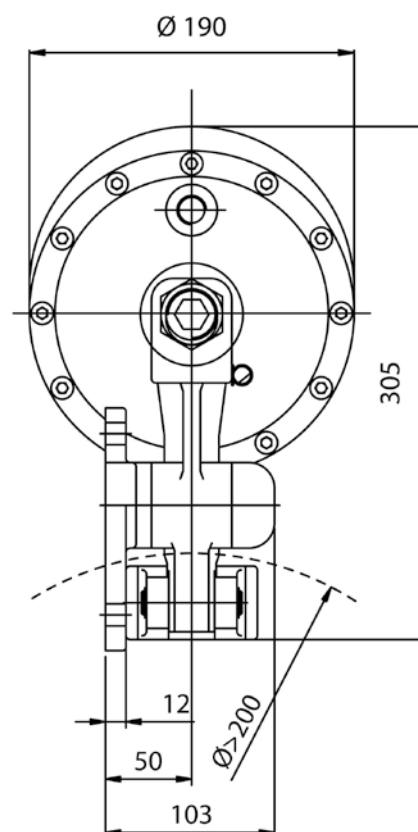
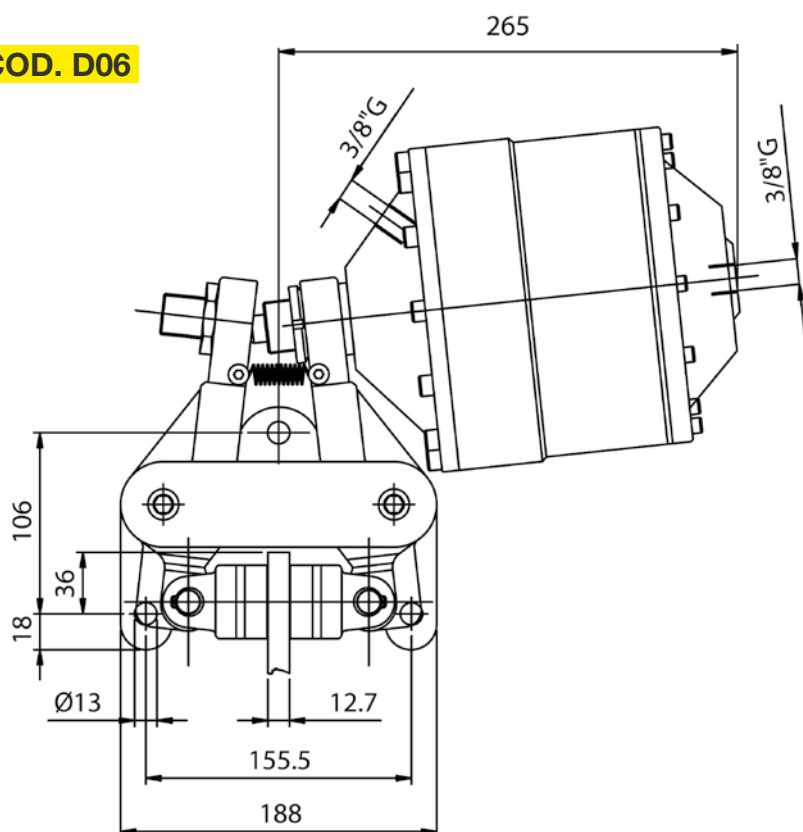
Coppia frenante Nm

Breaking torque Nm

PINZE PNEUMATICHE NEGATIVE *PNEUMATIC CALIPER BRAKES spring applied*
FRENO A PINZA - dimensioni e prestazioni
CALIPER BRAKE - dimension and performances

**SPG
 DUPLEX 3**

COD. D06

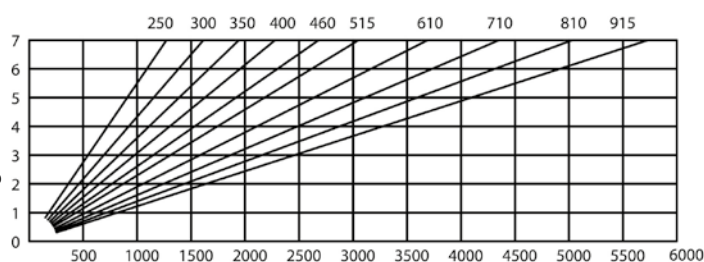


Pressione alimentazione kg/cm²
Air pressure kg/cm²

Diametro del disco mm

Disc Diameter mm

POSITIVO - AIR APPLIED



Coppia frenante Nm

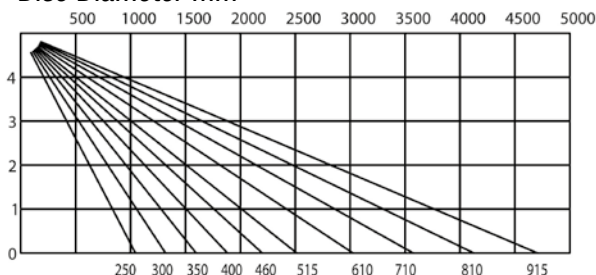
Breaking torque Nm

Pressione alimentazione kg/cm²
Air pressure kg/cm²

Diametro del disco mm

Disc Diameter mm

NEGATIVO - SPRING APPLIED



Coppia frenante Nm

Breaking torque Nm

DATI TECNICI

- Md forza frenante: Positivo 13400 N
 Negativo a molle max 11000 N
- Coppia dinamica:
 $= Md \cdot (\text{raggio disco in m} - 0,03) = Nm$
- Positivo: Pressione max 7 bar
 Volume aria 0,4 dm²
- Negativo: Pressione minima apertura
 5 bar Volume aria 0,3 dm²
- Peso 20 Kg

TECHNICAL DATA

- Md braking force: Air applied 13400 N
 Spring applied max 11000 N
- Dynamic torque:
 $= Md \cdot (\text{disc radius in m} - 0,03) = Nm$
- Air applied : Max pressure 7 bar
 Air volume 0,4 dm²
- Spring applied : Least pressure opening
 5 bar Air volume 0,3 dm²
- Weight 20 Kg

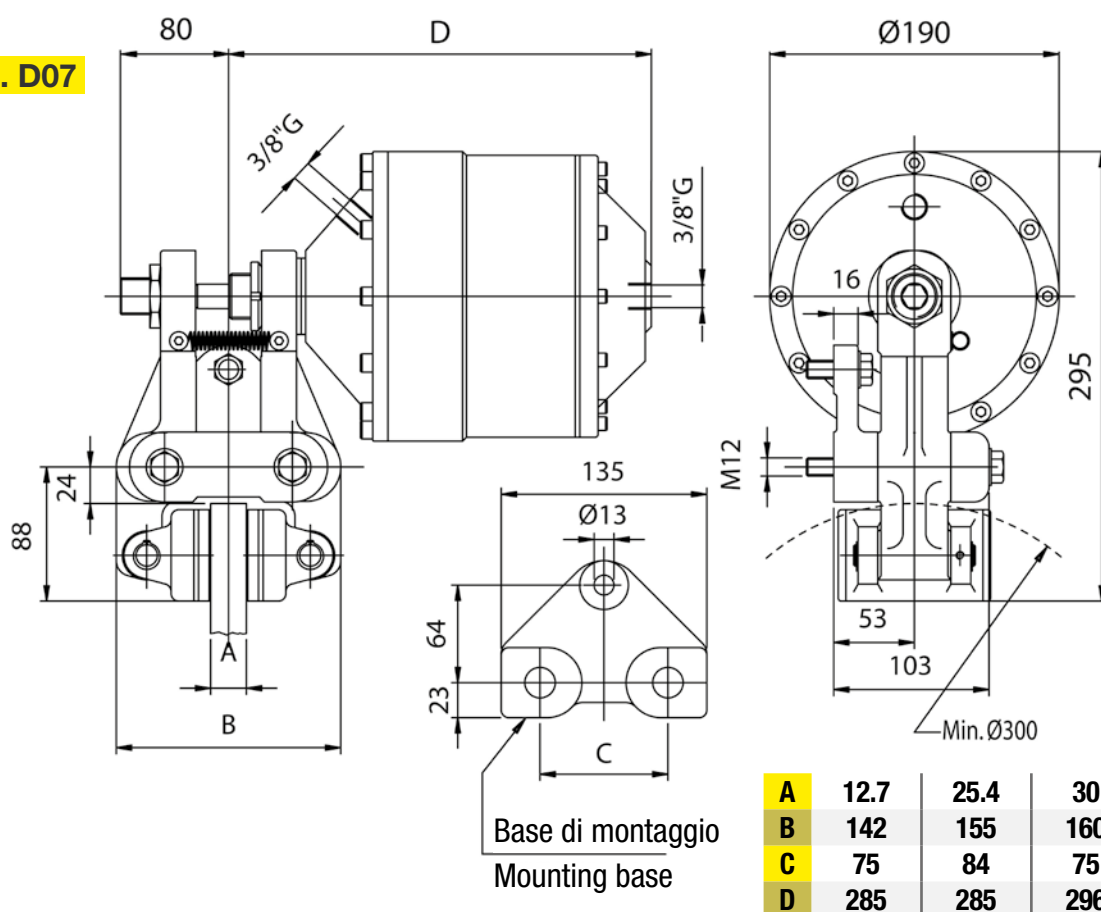
SPX DUPLEX 3

DUPLEX POSITIVI E NEGATIVI *DUPLEX air applied and spring applied*

FRENO A PINZA - dimensioni e prestazioni

CALIPER BRAKE - dimension and performances

COD. D07



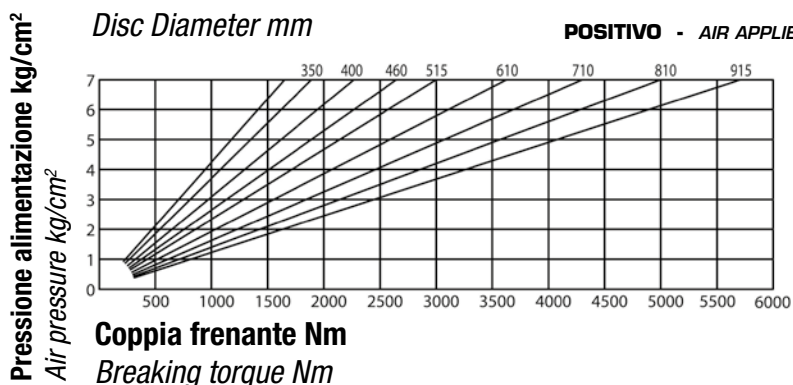
DATI TECNICI

- Md forza frenante: Positivo 13400 N
Negativo a molle max 11000 N
- Coppia dinamica:
= $Md \cdot (\text{raggio disco in m} - 0,03) = Nm$
- Positivo: Pressione max 7 bar
Volume aria 0,4 dm²
- Negativo: Pressione minima apertura
5 bar Volume aria 0,3 dm²
- Peso 21 Kg

• Diametro del disco mm

Disc Diameter mm

POSITIVO - AIR APPLIED



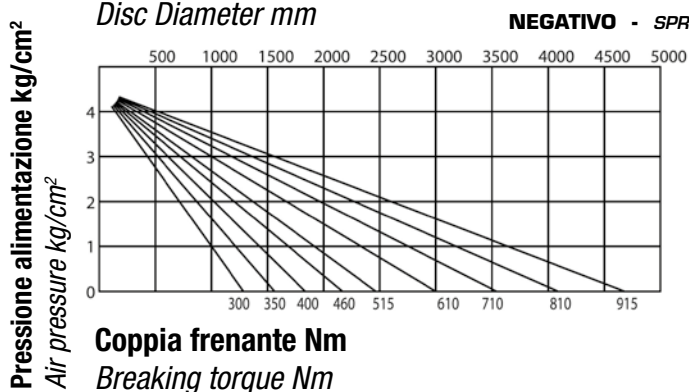
TECHNICAL DATA

- Md braking force: Air applied 13400 N
Spring applied max 11000 N
- Dynamic torque:
= $Md \cdot (\text{disc radius in m} - 0,03) = Nm$
- Air applied : Max pressure 7 bar
Air volume 0,4 dm²
- Spring applied : Least pressure opening
5 bar Air volume 0,3 dm²
- Weight 21 Kg

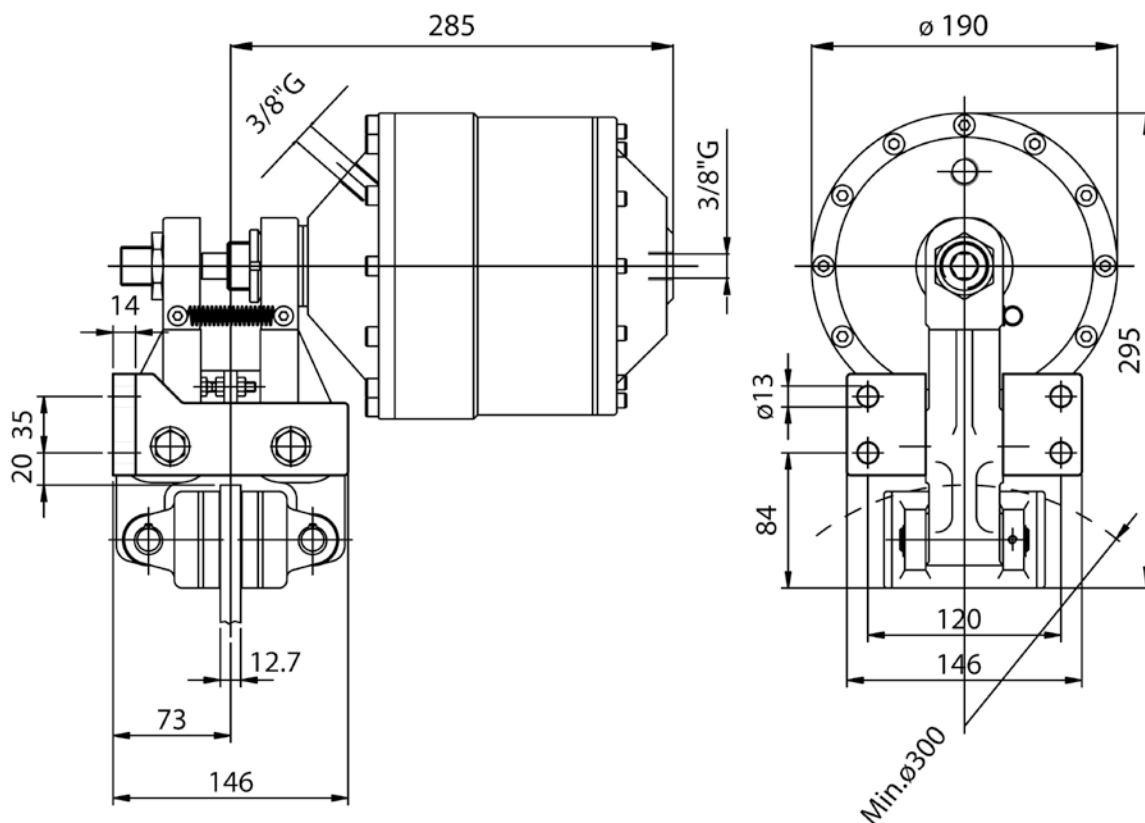
Diametro del disco mm

Disc Diameter mm

NEGATIVO - SPRING APPLIED



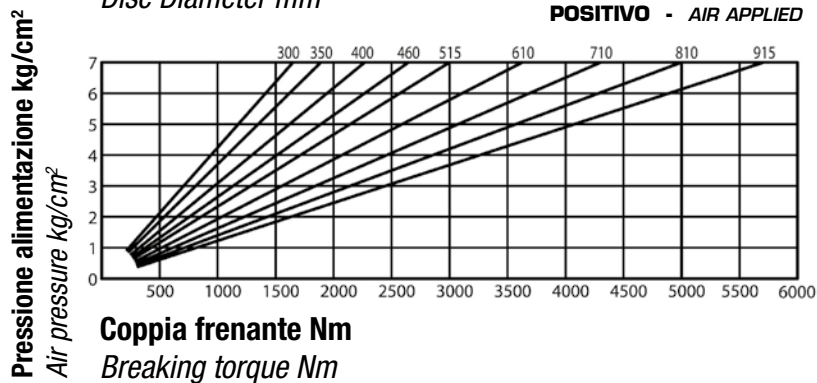
COD. D08



Diametro del disco mm

Disc Diameter mm

POSITIVO - AIR APPLIED



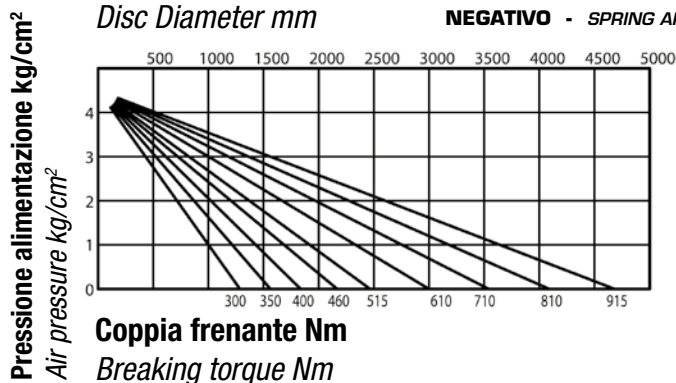
DATI TECNICI

- Md forza frenante: Positivo 13400 N
Negativo a molle max 11000 N
- Coppia dinamica:
= $Md \cdot (\text{raggio disco in m} - 0,03) = \text{Nm}$
- Positivo: Pressione max 7 bar
Volume aria 0,4 dm²
- Negativo: Pressione minima apertura
5 bar Volume aria 0,3 dm²
- Peso 21 Kg

Diametro del disco mm

Disc Diameter mm

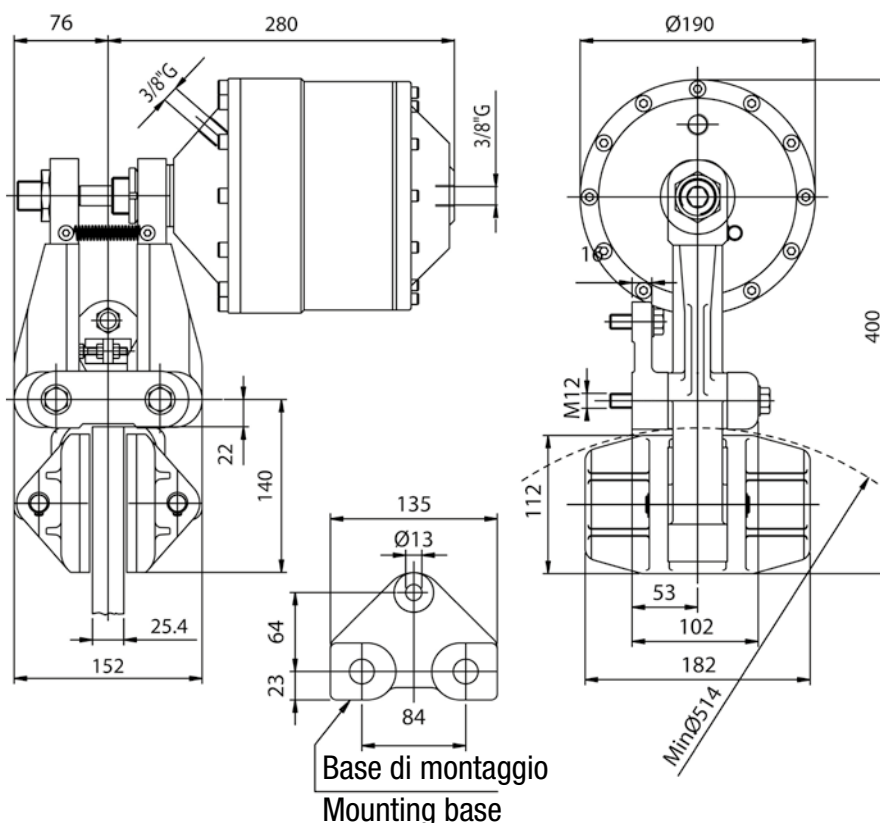
NEGATIVO - SPRING APPLIED



TECHNICAL DATA

- Md braking force: Air applied 13400 N
Spring applied max 11000 N
- Dynamic torque:
= $Md \cdot (\text{disc radius in m} - 0,03) = \text{Nm}$
- Air applied : Max pressure 7 bar
Air volume 0,4 dm²
- Spring applied : Least pressure opening
5 bar Air volume 0,3 dm²
- Weight 21 Kg

COD. D09



DATI TECNICI

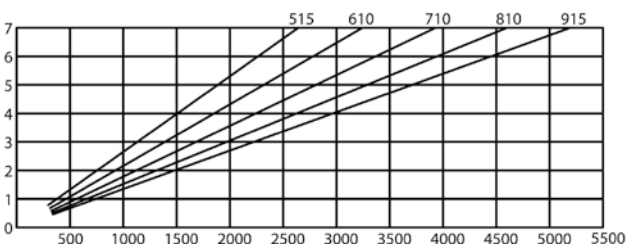
- Md forza frenante: Positivo 13400 N
Negativo a molle max 11000 N
- Coppia dinamica:
 $= Md \cdot (\text{raggio disco in m} - 0,062) = Nm$
- Positivo: Pressione max 7 bar
Volume aria 0,4 dm²
- Negativo: Pressione minima apertura
5 bar Volume aria 0,3 dm²
- Peso 27 Kg

Pressione alimentazione kg/cm²
Air pressure kg/cm²

Diametro del disco mm

Disc Diameter mm

POSITIVO - AIR APPLIED



Coppia frenante Nm

Breaking torque Nm

TECHNICAL DATA

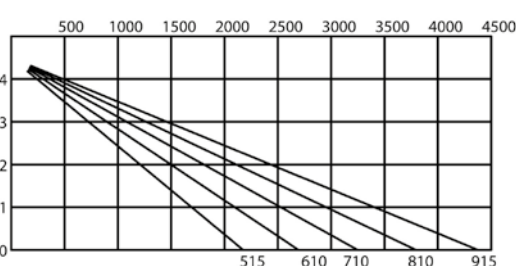
- Md braking force: Air applied 13400 N
Spring applied max 11000 N
- Dynamic torque:
 $= Md \cdot (\text{disc radius in m} - 0,062) = Nm$
- Air applied : Max pressure 7 bar
Air volume 0,4 dm²
- Spring applied : Least pressure opening
5 bar Air volume 0,3 dm²
- Weight 27 Kg

Pressione alimentazione kg/cm²
Air pressure kg/cm²

Diametro del disco mm

Disc Diameter mm

NEGATIVO - SPRING APPLIED



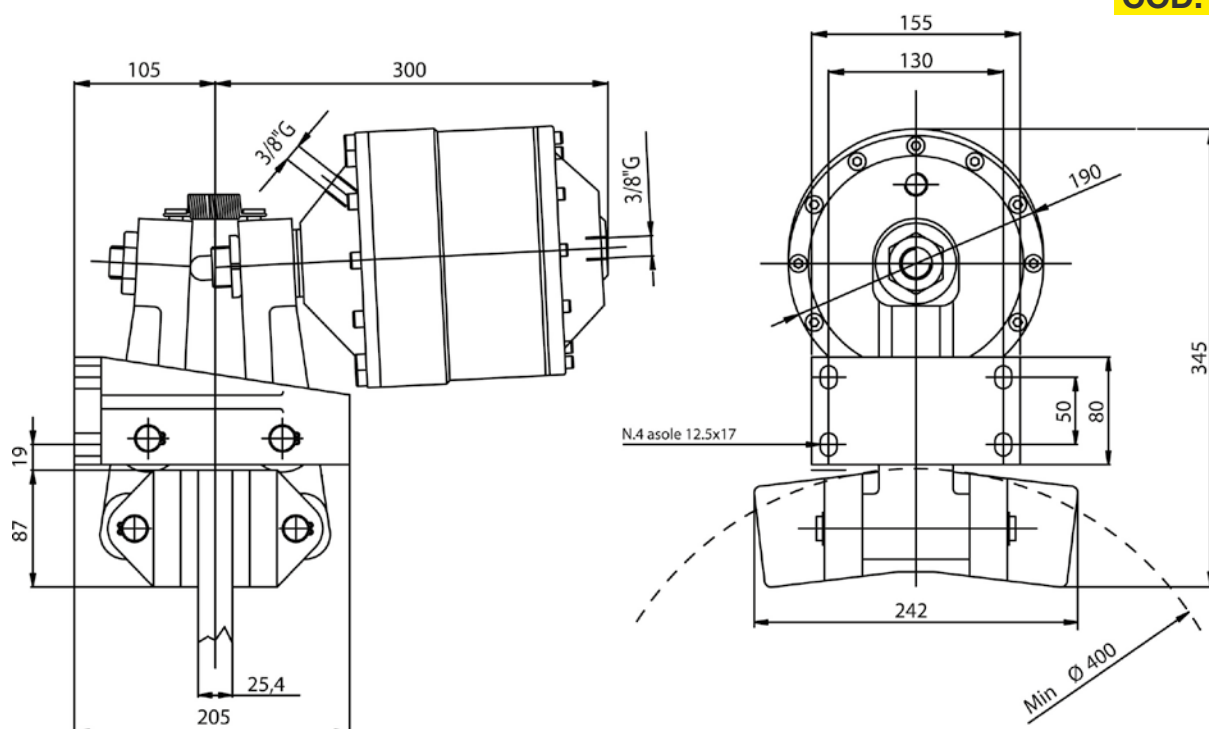
Coppia frenante Nm

Breaking torque Nm

PINZE PNEUMATICHE NEGATIVE PNEUMATIC CALIPER BRAKES spring applied
FRENO A PINZA - dimensioni e prestazioni
CALIPER BRAKE - dimension and performances

**SPF
 DUPLEX 3**

COD. D010

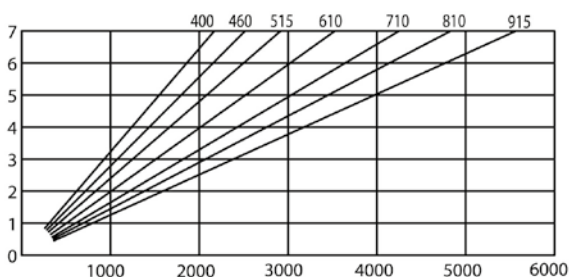


Diametro del disco mm

Disc Diameter mm

POSITIVO - AIR APPLIED

Pressione alimentazione kg/cm²
Air pressure kg/cm²



Coppia frenante Nm

Breaking torque Nm

DATI TECNICI

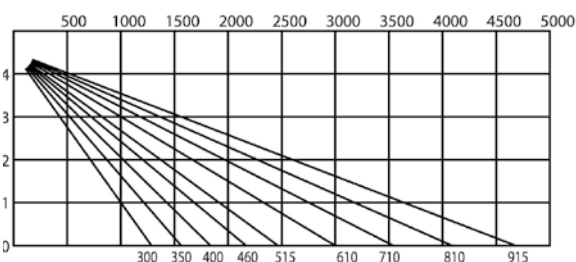
- Md forza frenante: Positivo 13400 N
Negativo a molle max 11000 N
- Coppia dinamica:
= $Md \cdot (\text{raggio disco in m} - 0,045) = Nm$
- Positivo: Pressione max 7 bar
Volume aria 0,4 dm²
- Negativo: Pressione minima apertura
5 bar Volume aria 0,3 dm²
- Peso 32 Kg

Diametro del disco mm

Disc Diameter mm

NEGATIVO - SPRING APPLIED

Pressione alimentazione kg/cm²
Air pressure kg/cm²

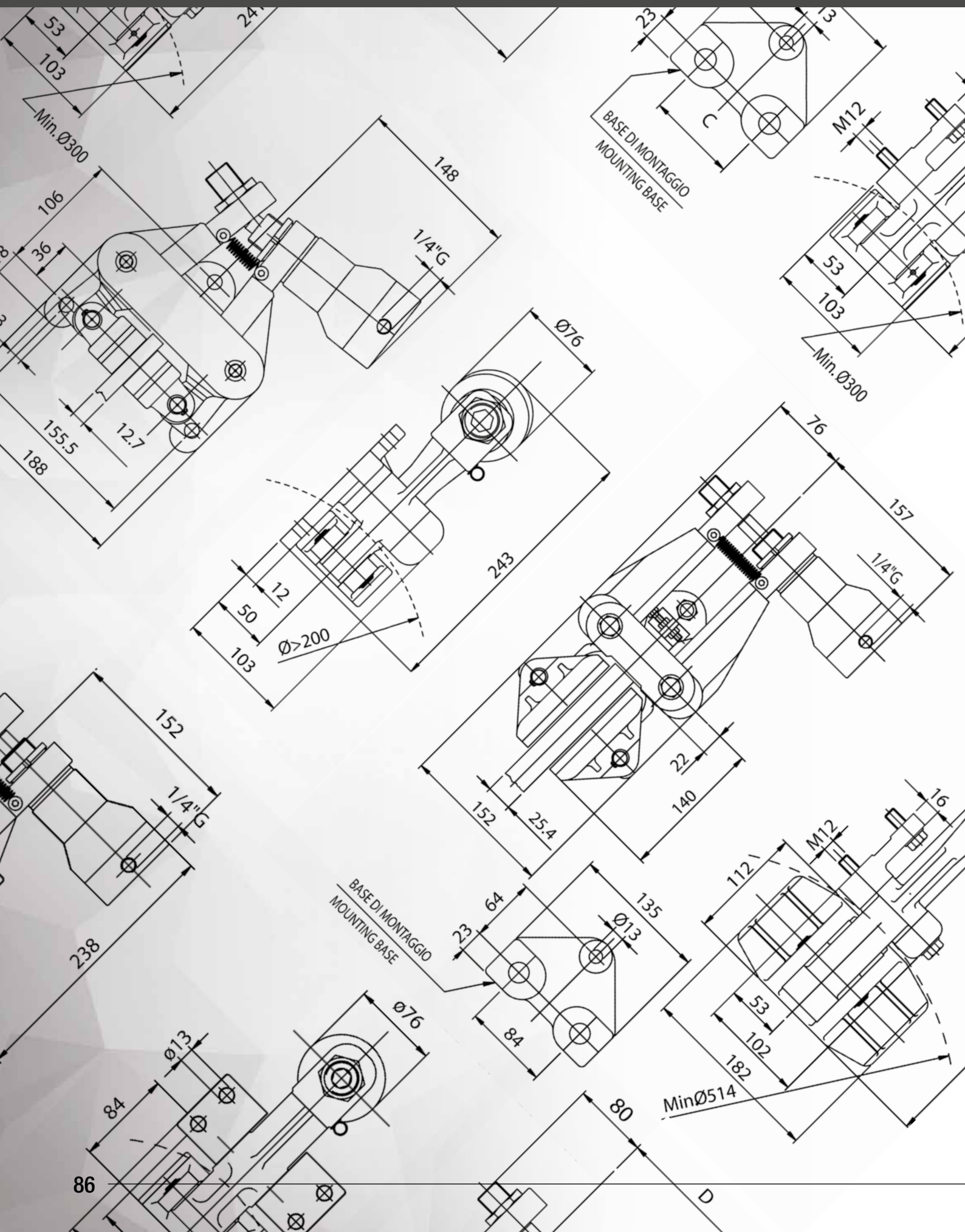


Coppia frenante Nm

Breaking torque Nm

TECHNICAL DATA

- Md braking force: Air applied 13400 N
Spring applied max 11000 N
- Dynamic torque:
= $Md \cdot (\text{disc radius in m} - 0,045) = Nm$
- Air applied : Max pressure 7 bar
Air volume 0,4 dm²
- Spring applied : Least pressure opening
5 bar Air volume 0,3 dm²
- Weight 32 Kg



PINZE IDRAULICHE POSITIVE HYDRAULICALLY ACTUATED CALIPER BRAKES - oil applied

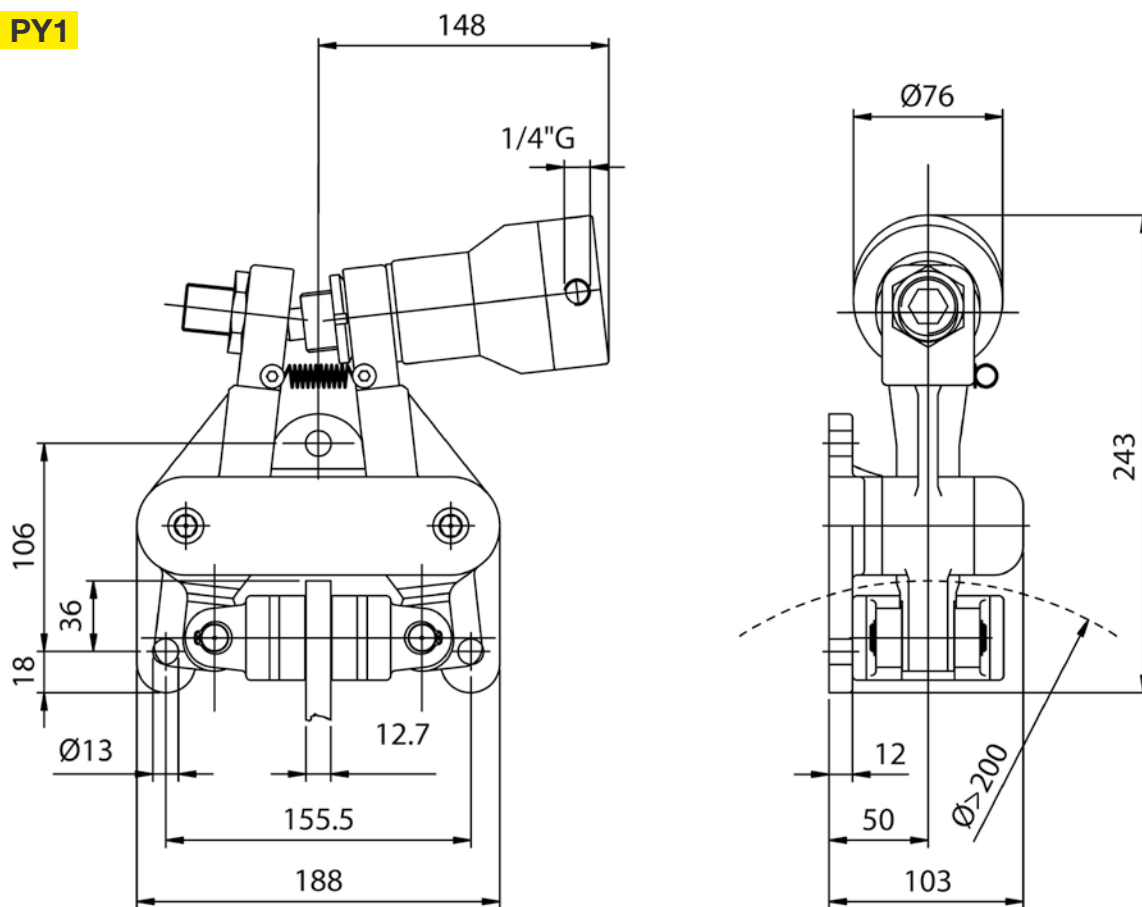


La serie di freni a pinza a comando idraulico OMPI consente un'ampia gamma di soluzioni per i problemi di frenatura, soprattutto per quei casi in cui la macchina permette esclusivamente azionamenti idraulici. L'ampia possibilità di utilizzazione di questa tipologia di prodotto ne fanno il suo punto di forza.

O MPI hydraulic caliper brakes offer a wide range of solutions to braking problems, in particular when the machines are exclusively hydraulically actuated.

So the peculiar feature of this type of product is its large use.

COD. PY1

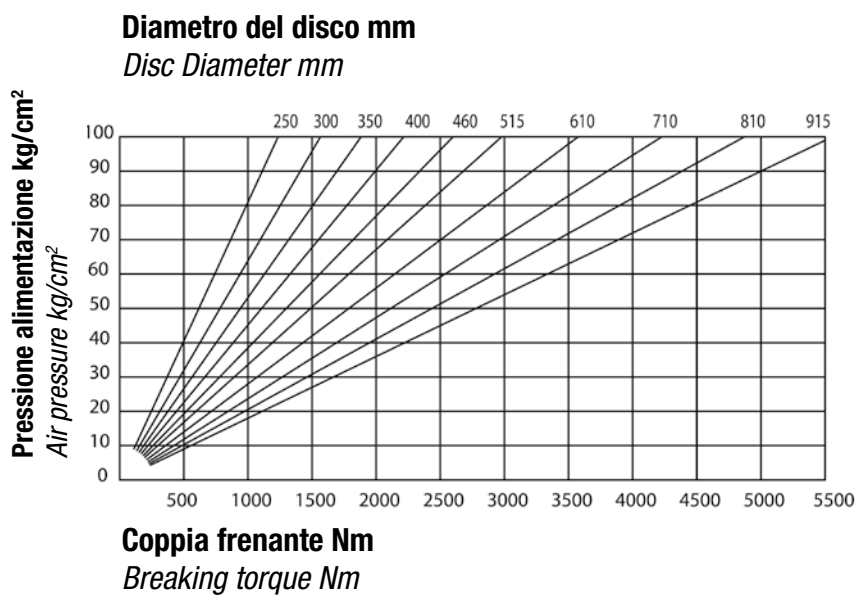


DATI TECNICI

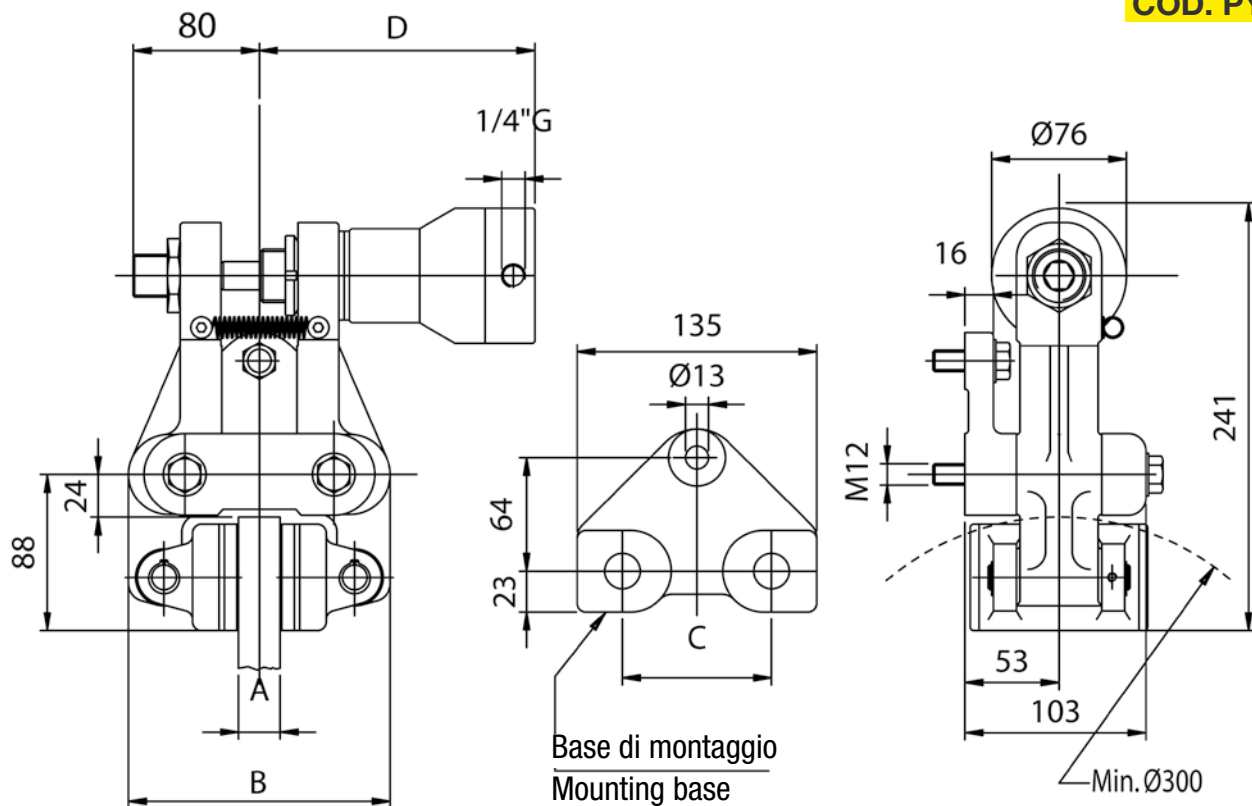
- Md forza frenante:
13000 N a 100 bar
- Coppia dinamica:
 $= Md \cdot (\text{raggio disco in m} - 0,030) = Nm$
- Pressione max 100 bar
- Volume olio 0,03 dm³
- Peso 10,8 Kg

TECHNICAL DATA

- *Md braking force:*
13000 N at 100 bar
- *Dynamic torque:*
 $= Md \cdot (\text{disc radius in m} - 0,030) = Nm$
- *Max pressure 100 bar*
- *Oil volume 0,03 dm³*
- *Weight 10,8 Kg*



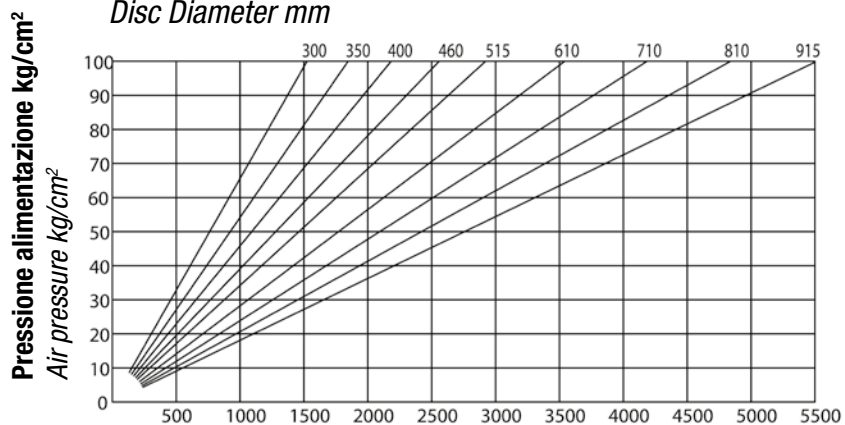
COD. PY2



A	12.7	25.4	30	40
B	142	155	160	170
C	75	84	75	84
D	146	146	157	166

Diametro del disco mm

Disc Diameter mm



Coppia frenante Nm

Breaking torque Nm

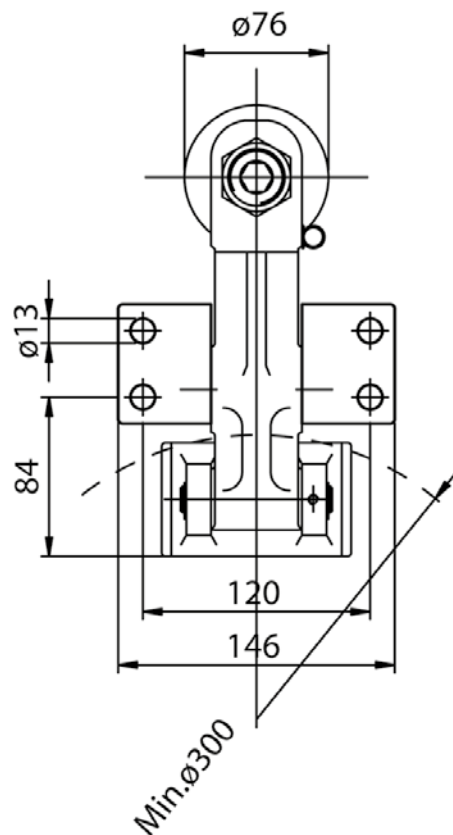
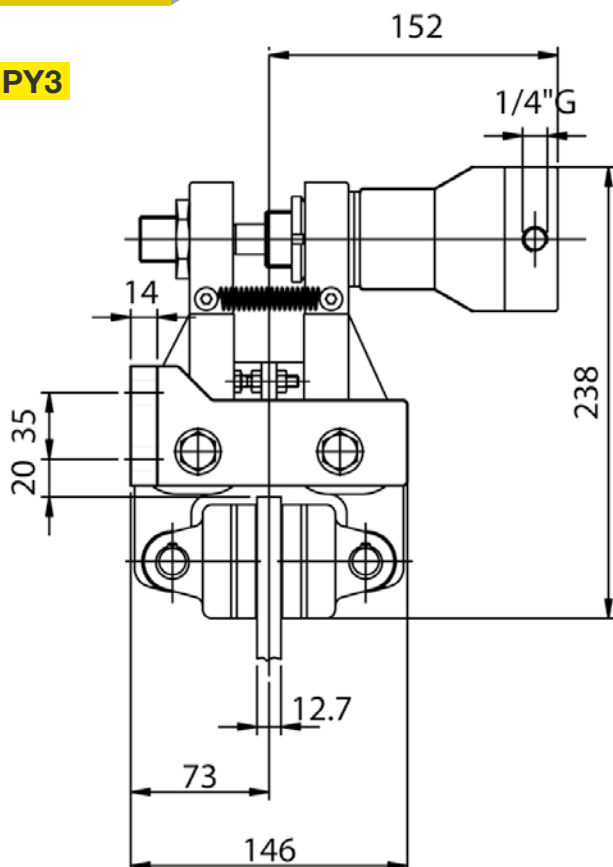
DATI TECNICI

- Md forza frenante:
13000 N a 100 bar
- Coppia dinamica:
 $= Md \cdot (\text{raggio disco in m} - 0,033) = Nm$
- Pressione max 100 bar
- Volume olio 0,03 dm³
- Peso 11,2 Kg

TECHNICAL DATA

- *Md braking force:*
13000 N at 100 bar
- *Dynamic torque:*
 $= Md \cdot (\text{disc radius in m} - 0,033) = Nm$
- *Max pressure 100 bar*
- *Oil volume 0,03 dm³*
- *Weight 11,2 Kg*

COD. PY3

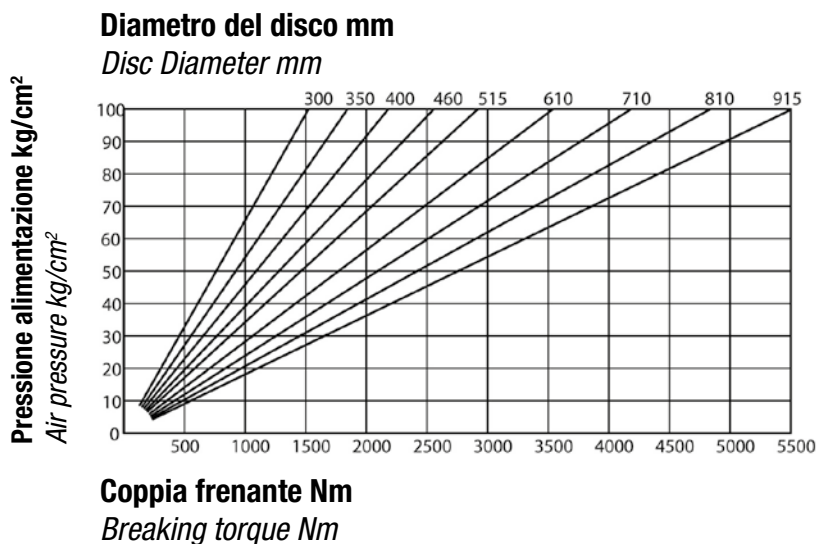


DATI TECNICI

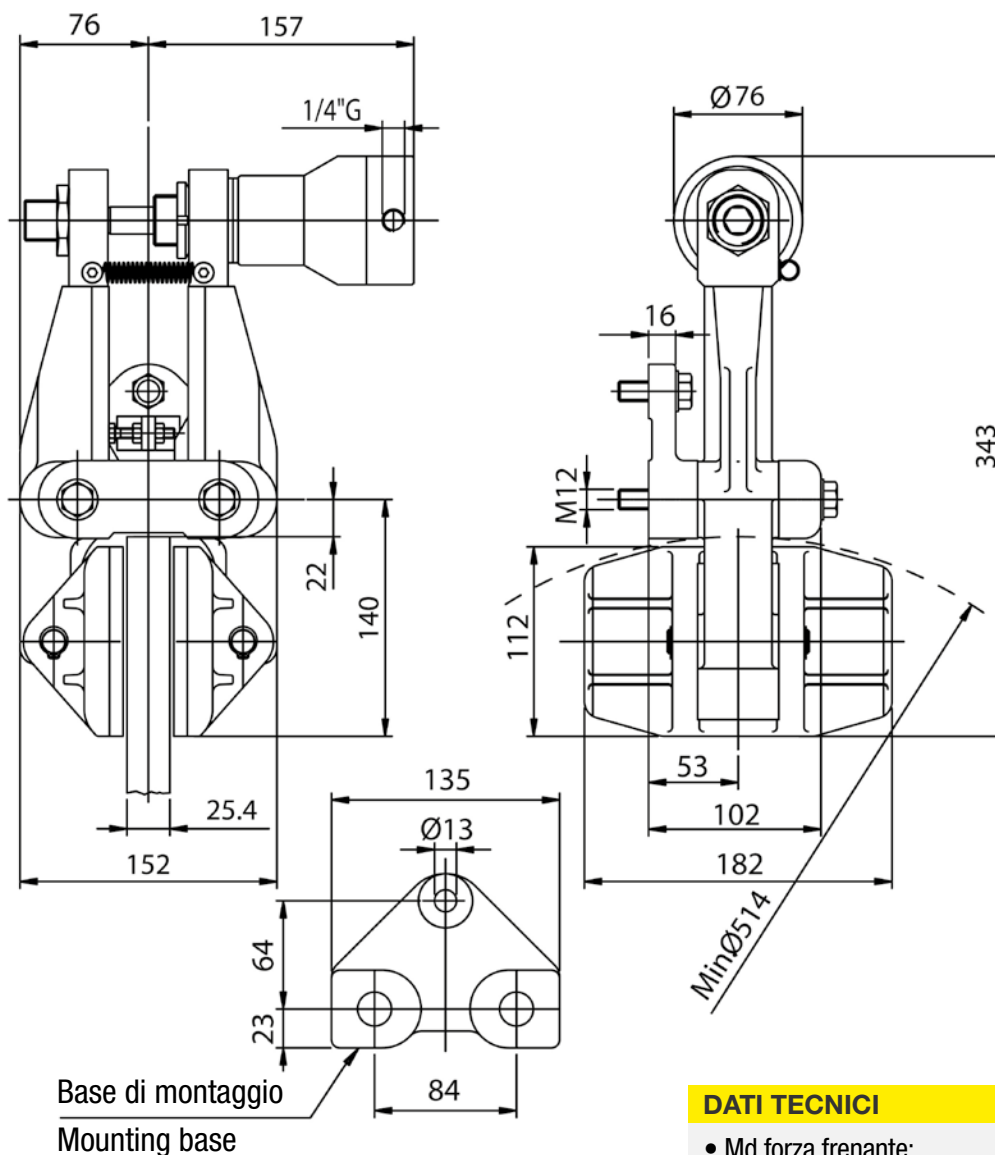
- Md forza frenante:
13000 N a 100 bar
- Coppia dinamica:
 $= Md \cdot (\text{raggio disco in m} - 0,033) = Nm$
- Pressione max 100 bar
- Volume olio 0,03 dm³
- Peso 11,3 Kg

TECHNICAL DATA

- Md braking force:
13000 N at 100 bar
- Dynamic torque:
 $= Md \cdot (\text{disc radius in m} - 0,033) = Nm$
- Max pressure 100 bar
- Oil volume 0,03 dm³
- Weight 11,3 Kg



COD. PY4

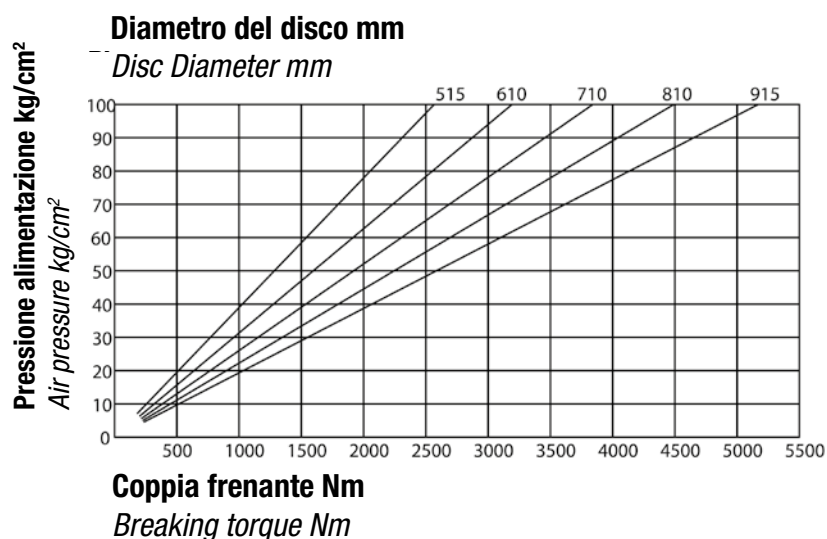


DATI TECNICI

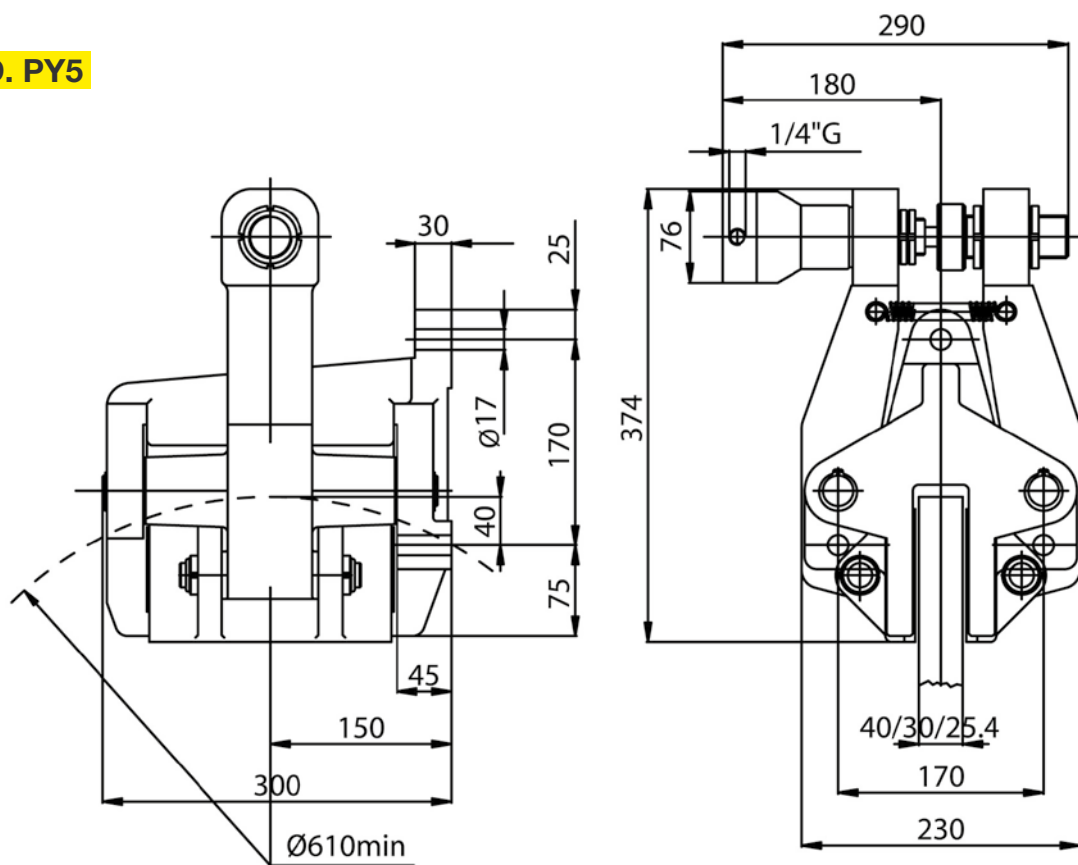
- Md forza frenante:
13000 N a 100 bar
- Coppia dinamica:
 $= Md \cdot (\text{raggio disco in m} - 0,062) = Nm$
- Pressione max 100 bar
- Volume olio 0,03 dm³
- Peso 16,8 Kg

TECHNICAL DATA

- Md braking force:
13000 N at 100 bar
- Dynamic torque:
 $= Md \cdot (\text{disc radius in m} - 0,062) = Nm$
- Max pressure 100 bar
- Oil volume 0,03 dm³
- Weight 16,8 Kg



COD. PY5



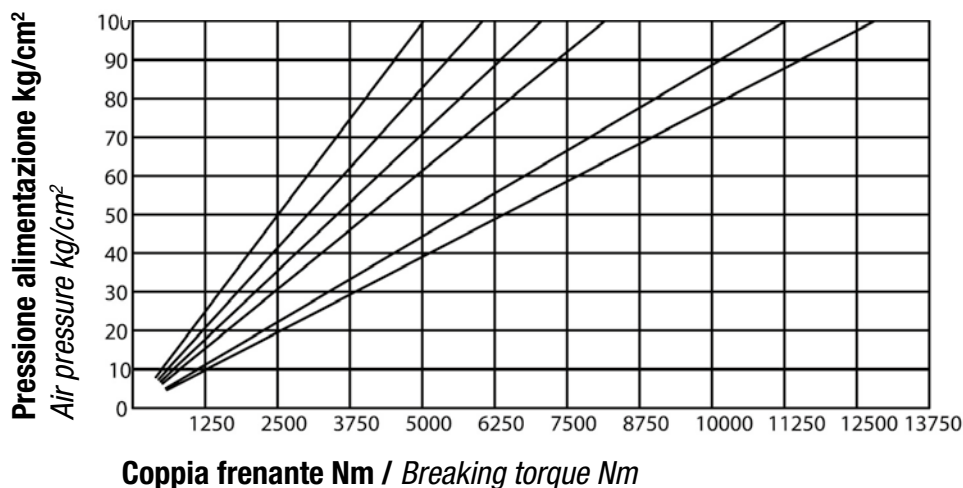
DATI TECNICI

- Md forza frenante:
20500 N a 100 bar
- Coppia dinamica:
 $= Md \cdot (\text{raggio disco in m} - 0,065) = Nm$
- Pressione max 100 bar
- Volume olio 0,03 dm³
- Peso 46 Kg

TECHNICAL DATA

- Md braking force:
20500 N at 100 bar
- Dynamic torque:
 $= Md \cdot (\text{disc radius in m} - 0,065) = Nm$
- Max pressure 100 bar
- Oil volume 0,03 dm³
- Weight 46 Kg

Diametro del disco mm / Disc Diameter mm



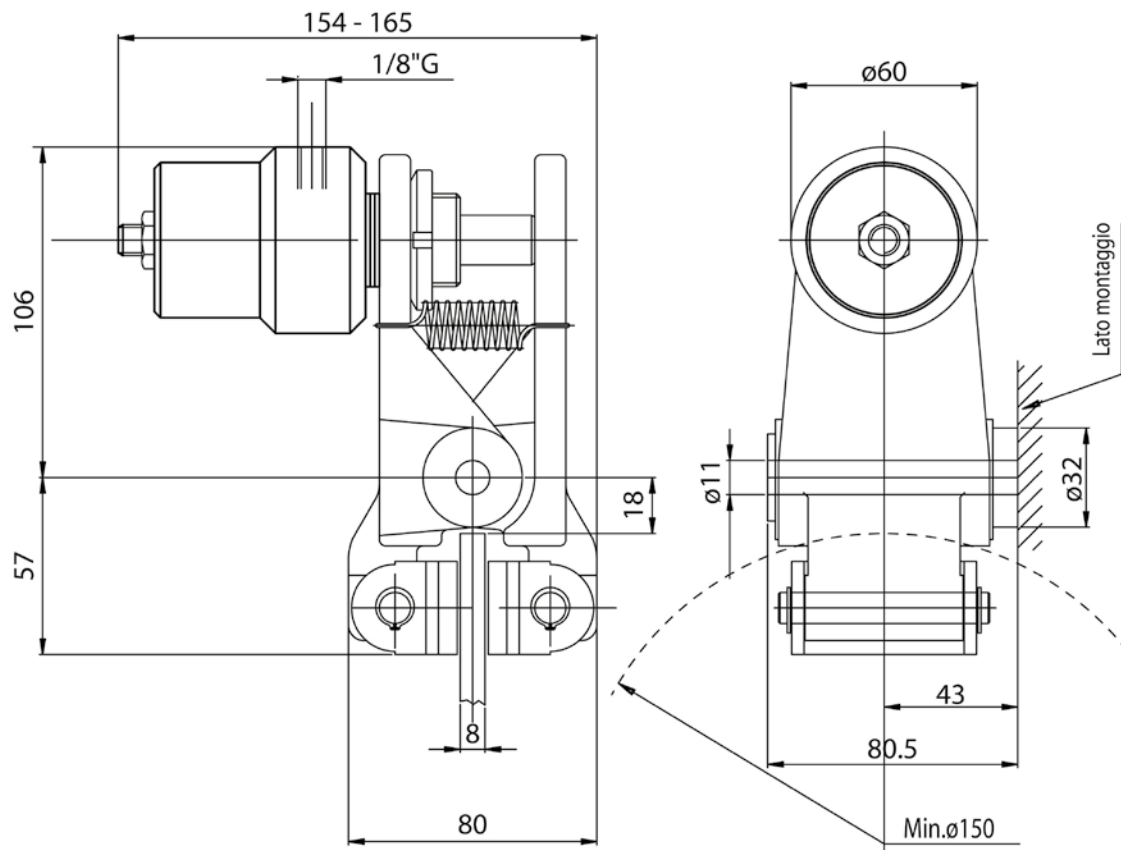
PINZE IDRAULICHE NEGATIVE HYDRAULICALLY RELEASED CALIPER BRAKES - *spring applied*



Per poter rispondere in modo efficace alle normative di sicurezza, si è prevista una gamma di freni a molla a comando idraulico. L'ampia possibilità di utilizzazione di questa tipologia di prodotto ne fanno il suo punto di forza.

A range of hydraulically released caliper brakes is the better solution in order to respect efficaciously the safety laws.
The success of this type of product is due to its uncountable uses.

COD. PNY0

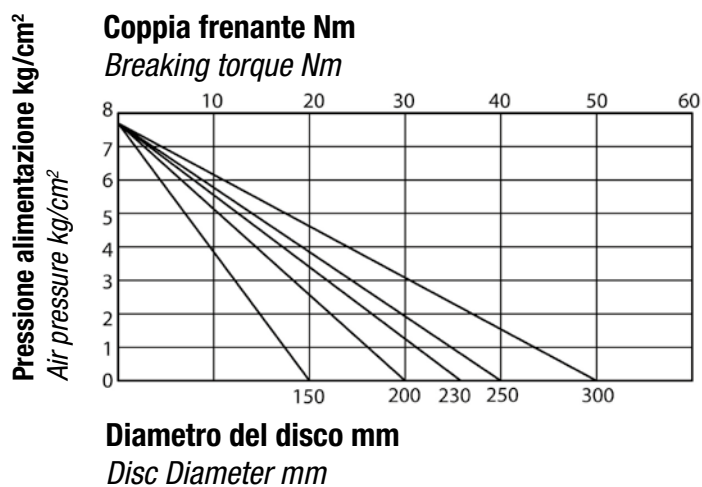


DATI TECNICI

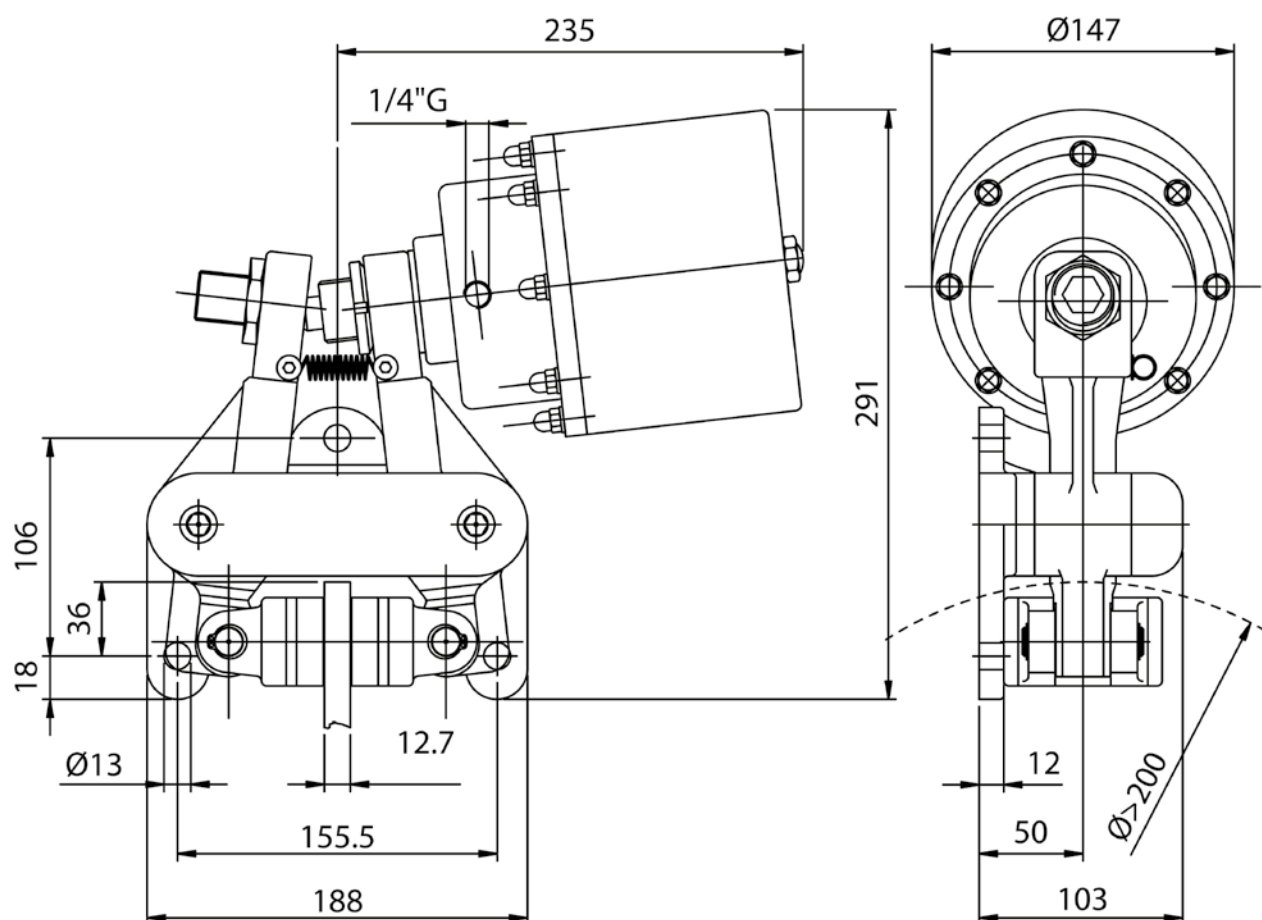
- Md forza frenante:
500 N
- Coppia dinamica:
 $= Md \cdot (\text{raggio disco in m} - 0,025) = Nm$
- Pressione massima 7 bar
- Volume olio 0,05 dm²
- Peso 3 Kg

TECHNICAL DATA

- Md braking force:
500 N
- Dynamic torque:
 $= Md \cdot (\text{disc radius in m} - 0,025) = Nm$
- Max pressure 7 bar
- Oil volume 0,05 dm²
- Weight 3 Kg

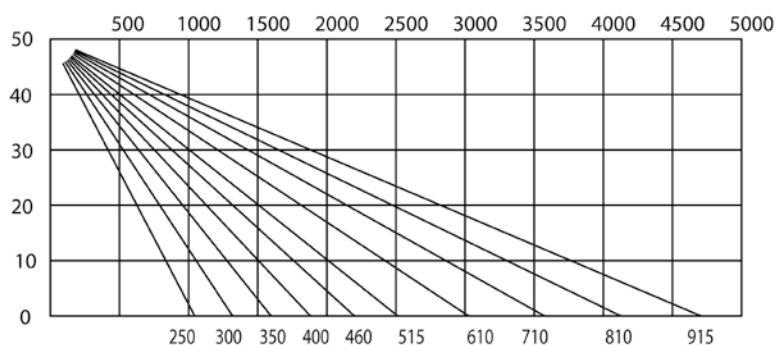


COD. PNY1



Pressione alimentazione kg/cm²
Air pressure kg/cm²

Diametro del disco mm
Disc Diameter mm



Coppia frenante Nm
Breaking torque Nm

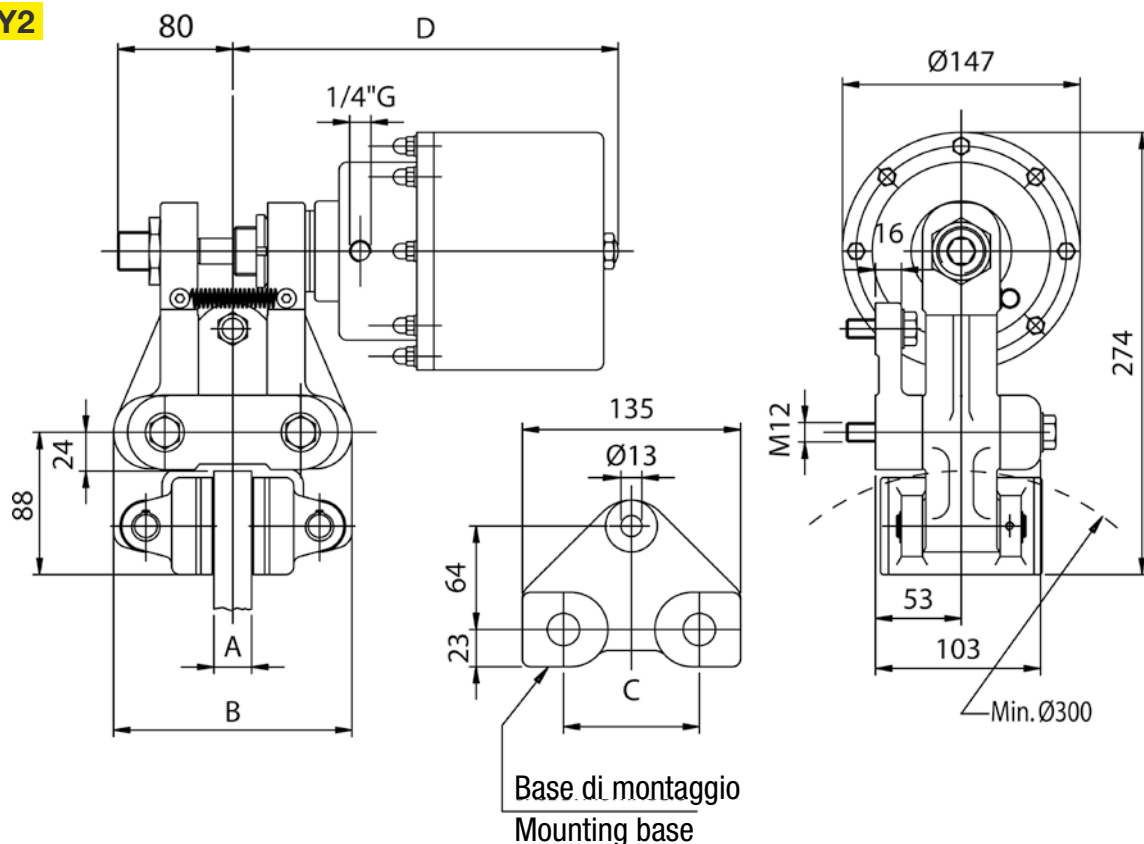
DATI TECNICI

- Md forza frenante:
13000 N a 100 bar
- Coppia dinamica:
= $Md \cdot (\text{raggio disco in m} - 0,062) = Nm$
- Pressione max 100 bar
- Volume olio 0,03 dm³
- Peso 16,8 Kg

TECHNICAL DATA

- Md braking force:
13000 N at 100 bar
- Dynamic torque:
= $Md \cdot (\text{disc radius in m} - 0,062) = Nm$
- Max pressure 100 bar
- Oil volume 0,03 dm³
- Weight 16,8 Kg

COD. PNY2



DATI TECNICI

- Md forza frenante:
max 11000 N
- Coppia dinamica:
 $= Md \cdot (\text{raggio disco in m} - 0,033) = Nm$
- Pressione minima apertura 50 bar
- Volume olio 0,09 dm³
- Peso 16,2 Kg

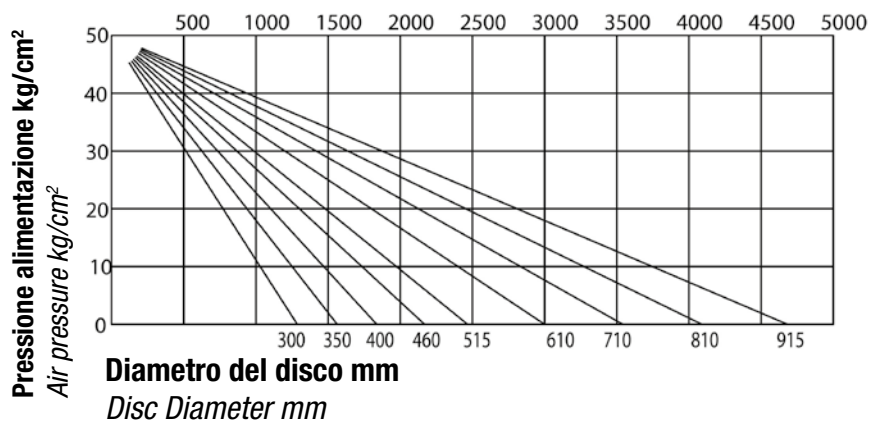
A	12.7	25.4	30	40
B	142	155	160	170
C	75	84	75	84
D	232	232	242	252

TECHNICAL DATA

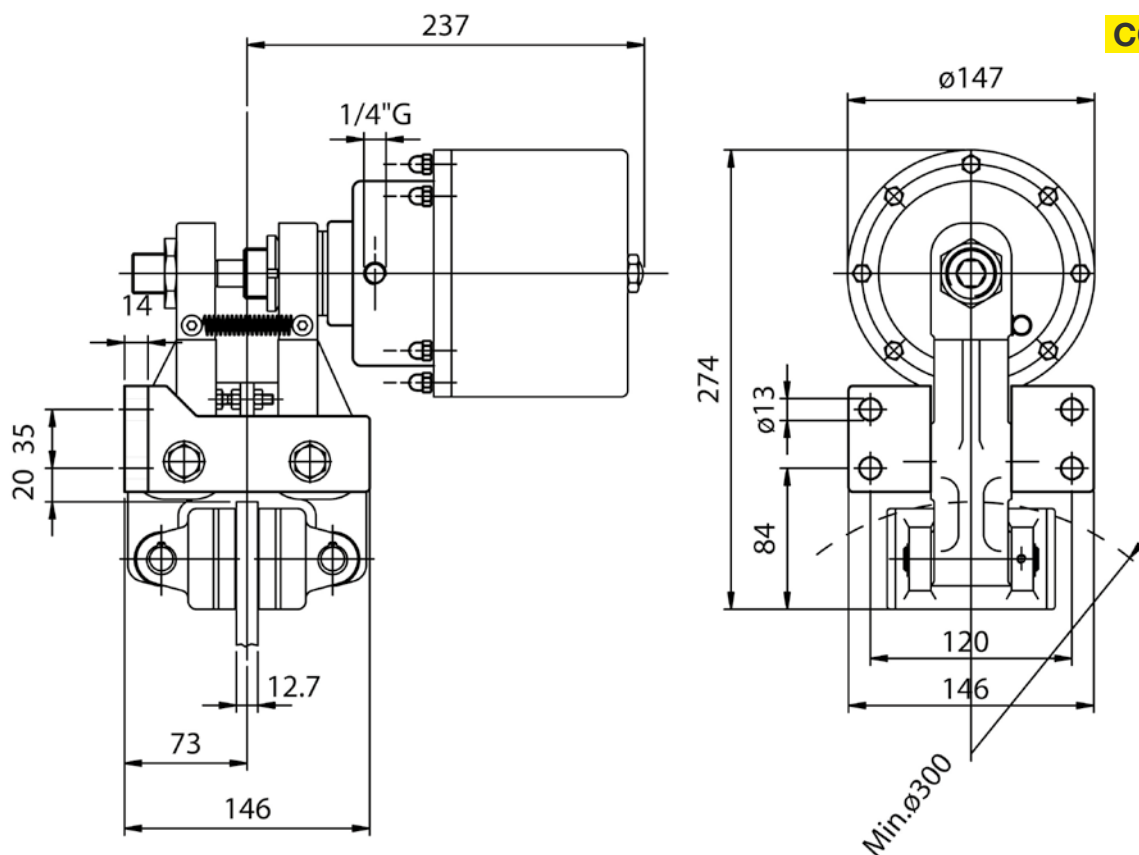
- Md braking force:
max 11000 N
- Dynamic torque:
 $= Md \cdot (\text{disc radius in m} - 0,033) = Nm$
- Least pressure opening 50 bar
- Oil volume 0,09 dm³
- Weight 16,2 Kg

Coppia frenante Nm

Breaking torque Nm



COD. PNY3



DATI TECNICI

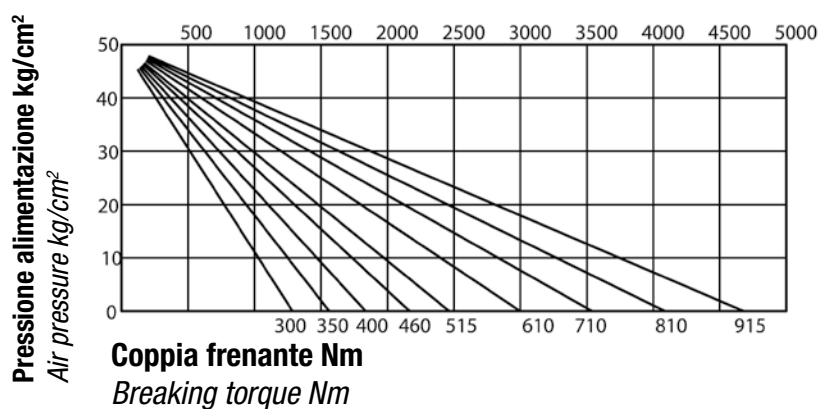
- Md forza frenante:
max 11000 N
- Coppia dinamica:
= $Md \cdot (\text{raggio disco in m} - 0,033) = Nm$
- Pressione minima apertura 50 bar
- Volume olio 0,09 dm³
- Peso 16,3 Kg

TECHNICAL DATA

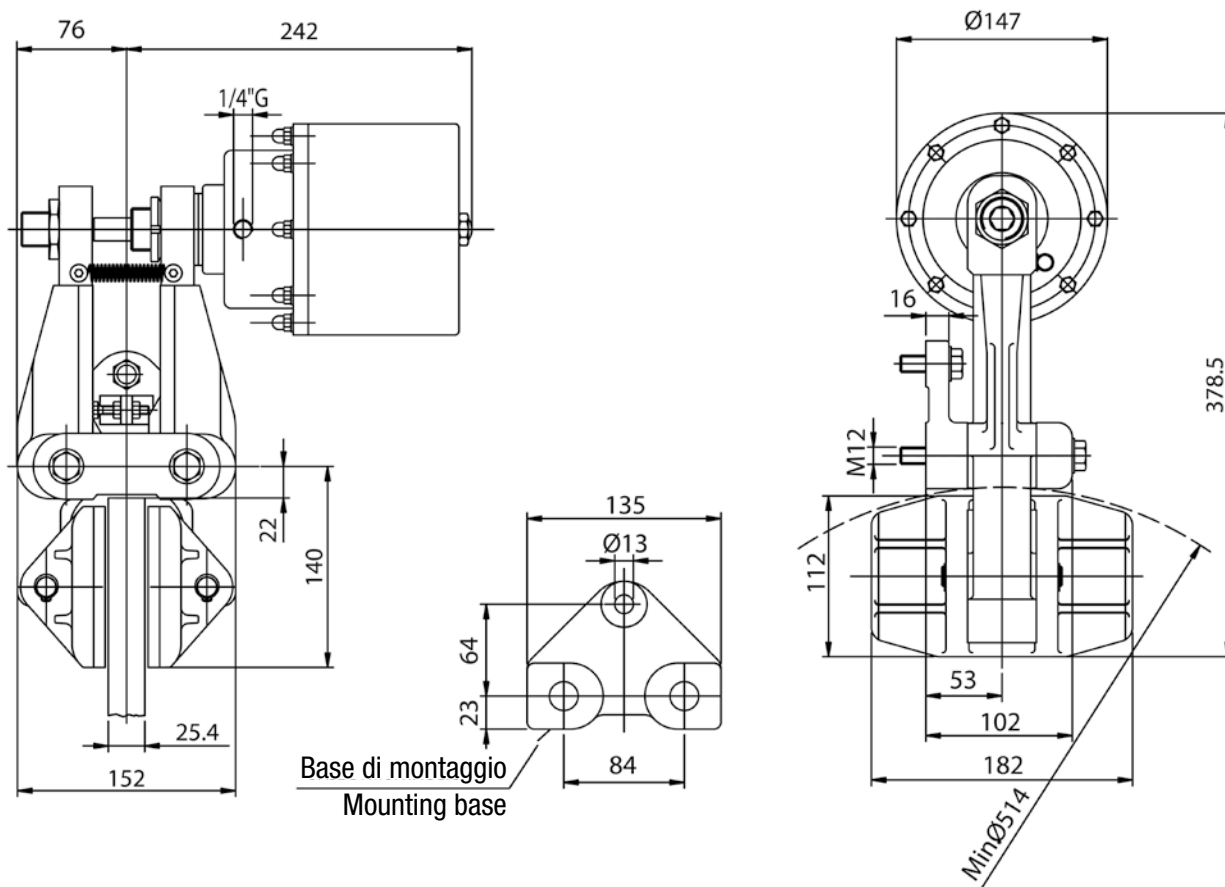
- Md braking force:
max 11000 N
- Dynamic torque:
= $Md \cdot (\text{disc radius in m} - 0,033) = Nm$
- Least pressure opening 50 bar
- Oil volume 0,09 dm³
- Weight 16,3 Kg

Diametro del disco mm

Disc Diameter mm



COD. PNY4



DATI TECNICI

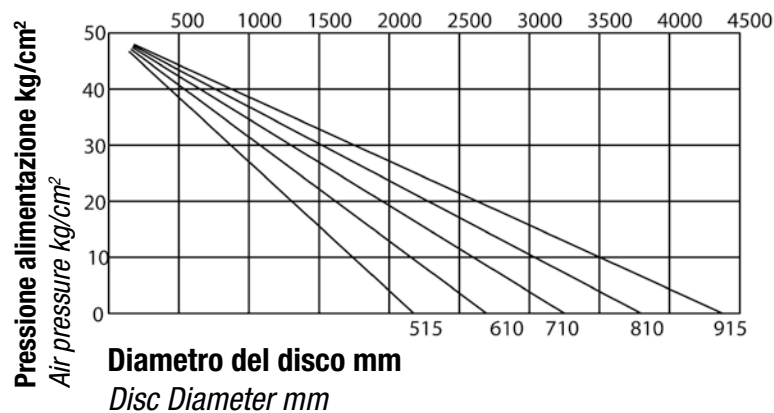
- Md forza frenante:
max 11000 N
- Coppia dinamica:
 $= Md \cdot (\text{raggio disco in m} - 0,062) = Nm$
- Pressione minima apertura 50 bar
- Volume olio 0,09 dm³
- Peso 21,8 Kg

TECHNICAL DATA

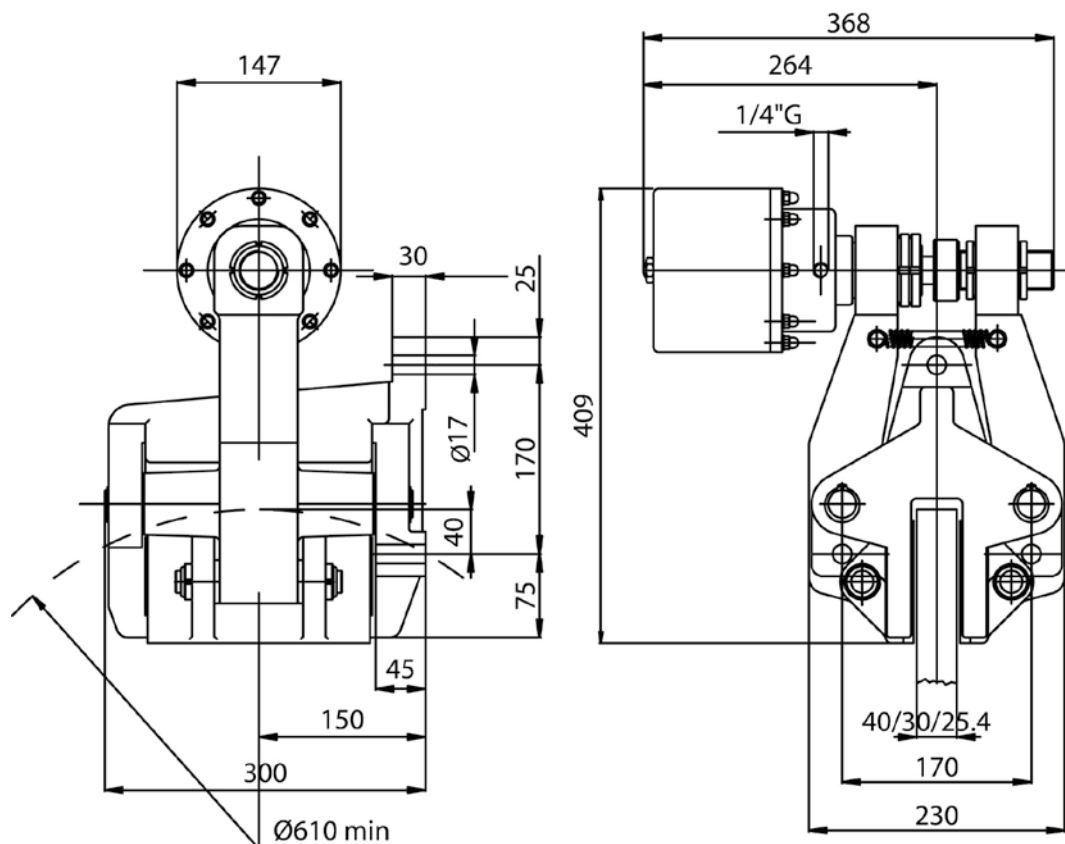
- Md braking force:
max 11000 N
- Dynamic torque:
 $= Md \cdot (\text{disc radius in m} - 0,062) = Nm$
- Least pressure opening 50 bar
- Oil volume 0,09 dm³
- Weight 21,8 Kg

Coppia frenante Nm

Breaking torque Nm

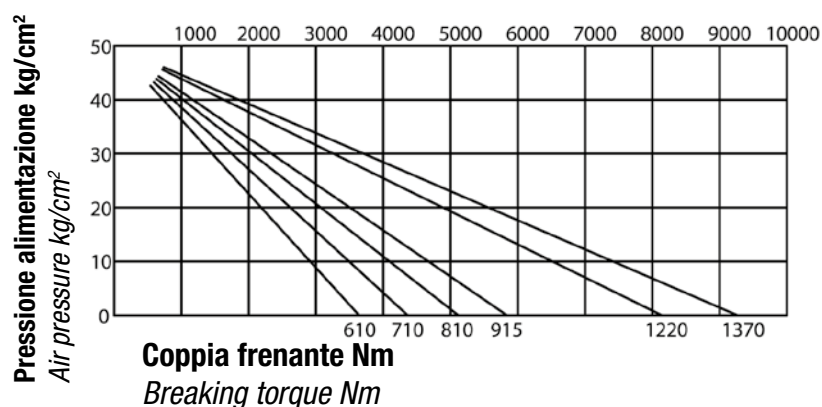


COD. PNY5



Diametro del disco mm

Disc Diameter mm



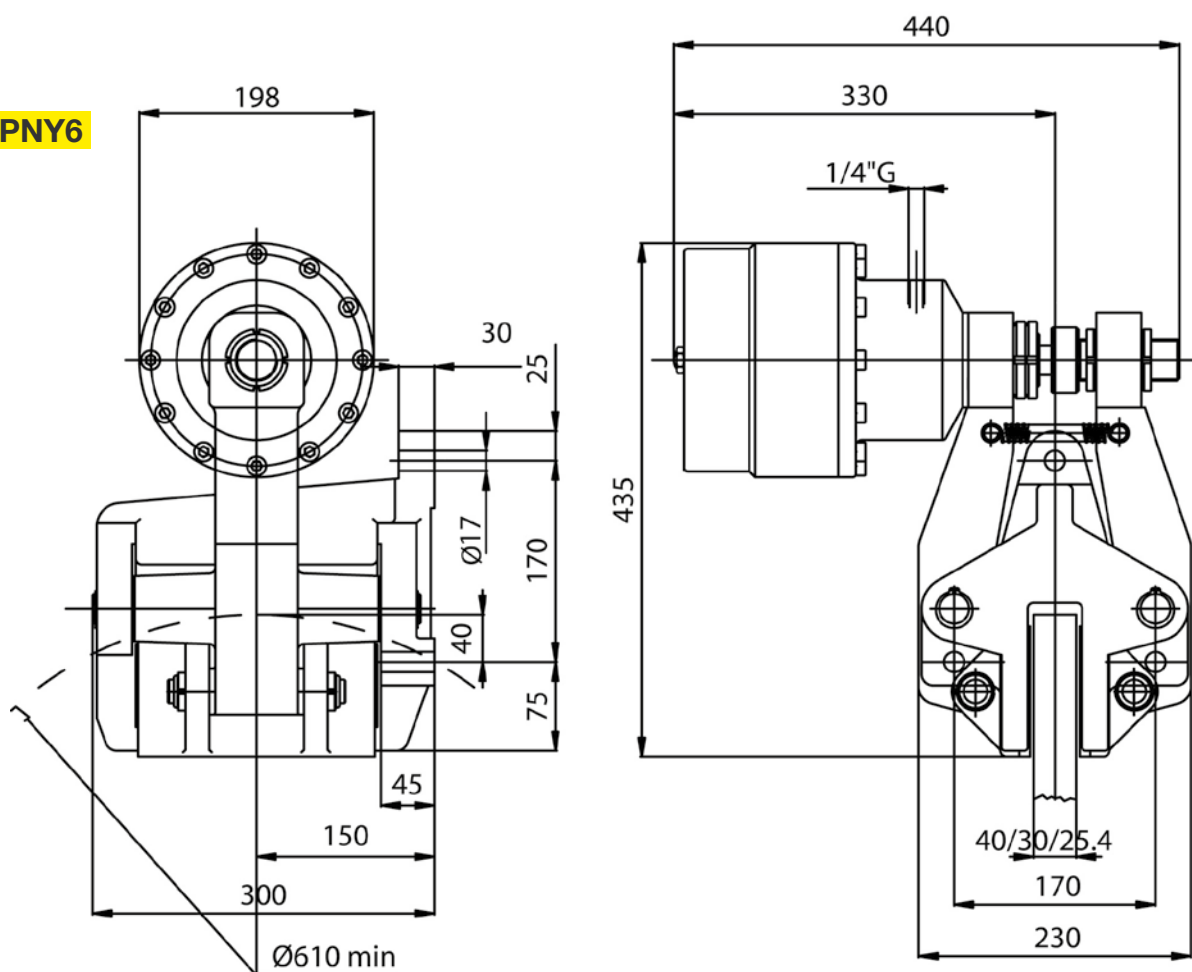
TECHNICAL DATA

- *Md braking force:*
max 14800 N
- *Dynamic torque:*
 $= Md \cdot (\text{disc radius in m} - 0,065) = Nm$
- *Least pressure opening 50 bar*
- *Oil volume 0,09 dm³*
- *Weight 51 Kg*

DATI TECNICI

- *Md forza frenante:*
max 14800 N
- *Coppia dinamica:*
 $= Md \cdot (\text{raggio disco in m} - 0,065) = Nm$
- *Pressione minima apertura 50 bar*
- *Volume olio 0,09 dm³*
- *Peso 51 Kg*

COD. PNY6



DATI TECNICI

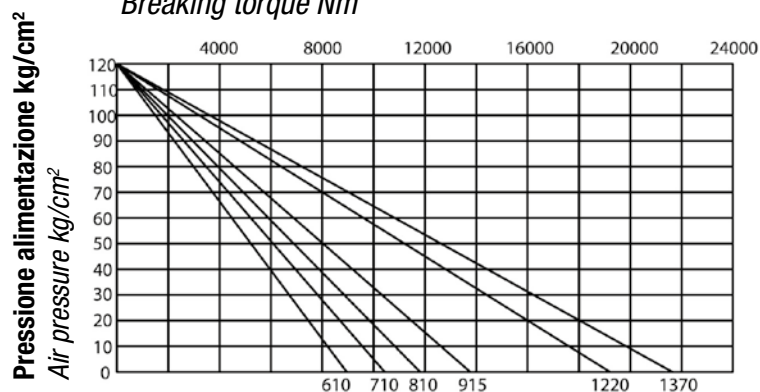
- Md forza frenante:
max 35000 N
- Coppia dinamica:
= $Md \cdot (\text{raggio disco in m} - 0,065) = Nm$
- Pressione minima apertura 120 bar
- Volume olio 0,15 dm²
- Peso 60 Kg

TECHNICAL DATA

- Md braking force:
max 35000 N
- Dynamic torque:
= $Md \cdot (\text{disc radius in m} - 0,065) = Nm$
- Least pressure opening 120 bar
- Oil volume 0,15 dm²
- Weight 60 Kg

Coppia frenante Nm

Breaking torque Nm

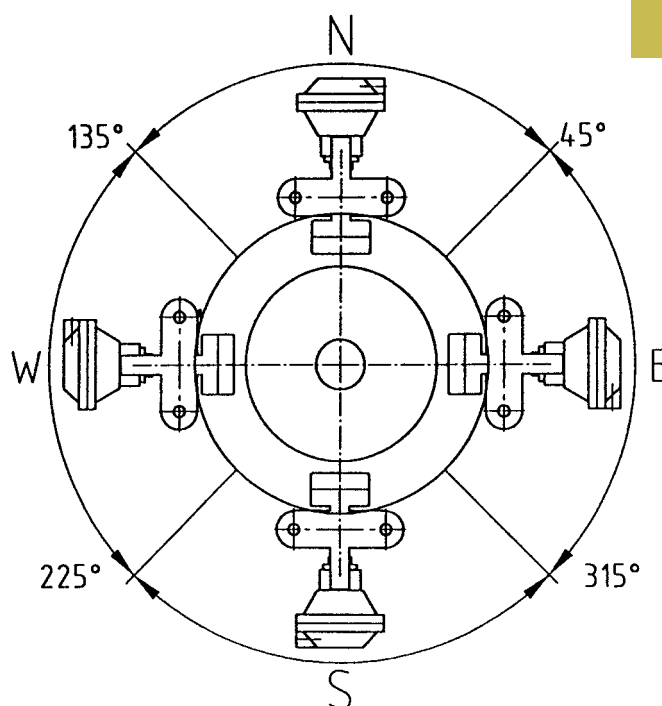


Diametro del disco mm

Disc Diameter mm

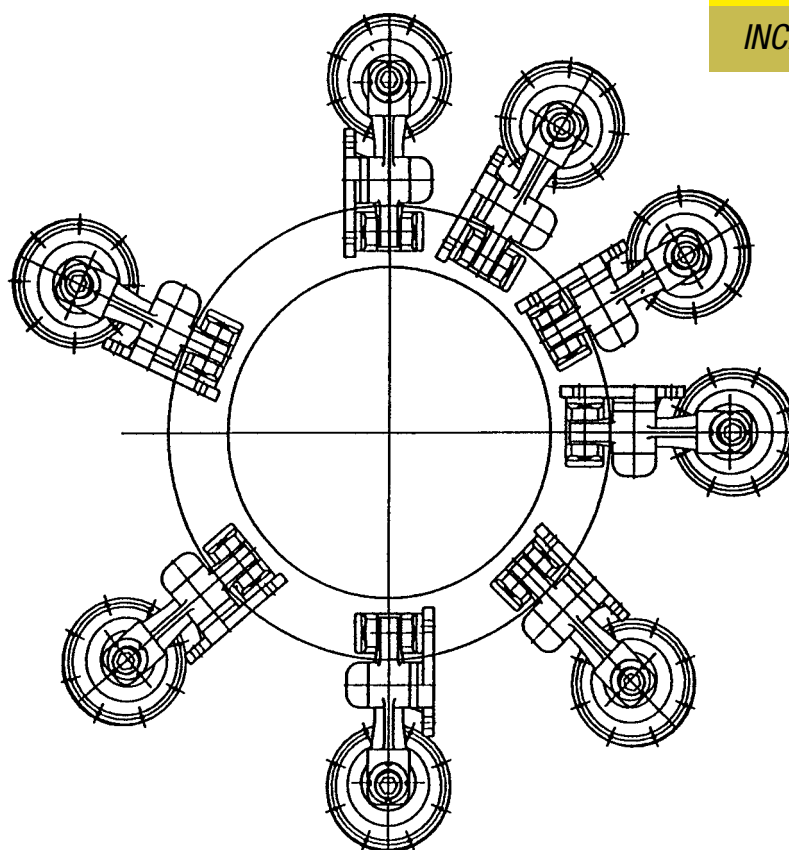
ESEMPI DI MONTAGGIO

EXAMPLES OF MOUNTING



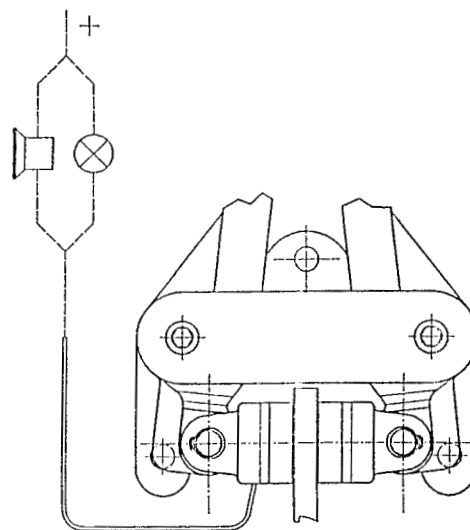
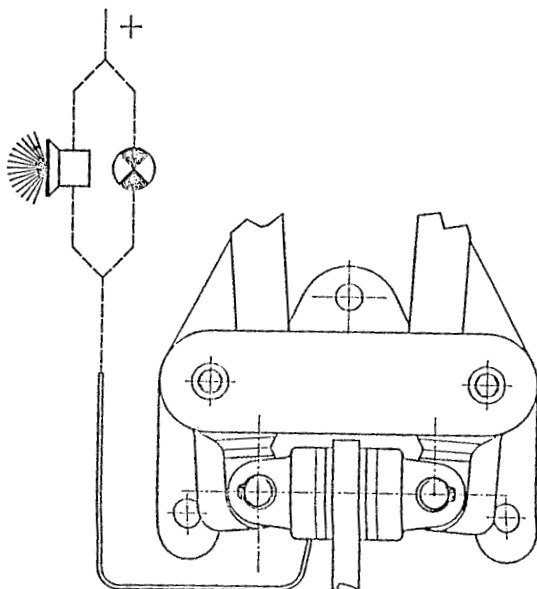
BILANCIAMENTO

INCLINED MOUNTING KIT



SEGNALATORE USURA

WEAR INDICATOR



- Applicabile a tutti i modelli
- Escluso i mod. SPC e SPO

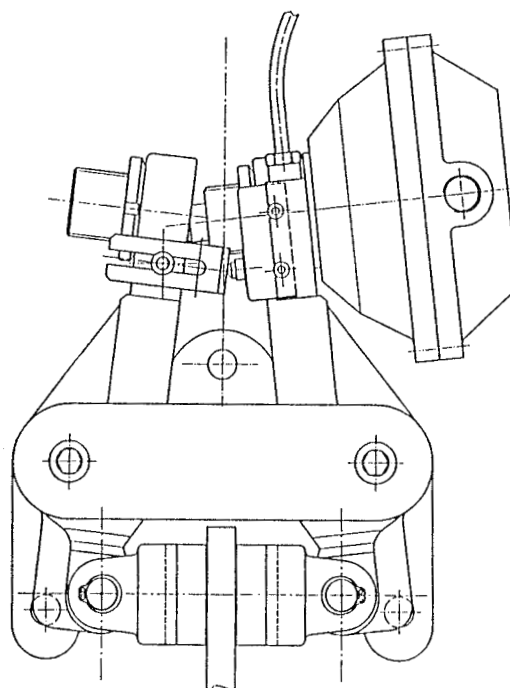
- It can be applied on all the models
- Except on SPC and SPO

INDICATORE APERTO-CHIUSO

ON-OFF INDICATOR

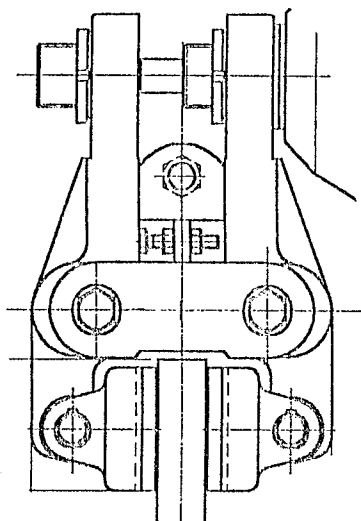
- Applicabile a tutti i modelli
- Escluso i mod. SPC, SPO e SP

- It can be applied on all the models
- Except on SPC, SPO and SP

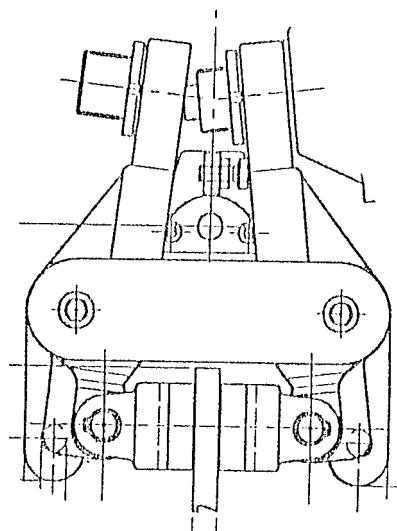


BILANCIAMENTO

INCLINED MOUNTING KIT



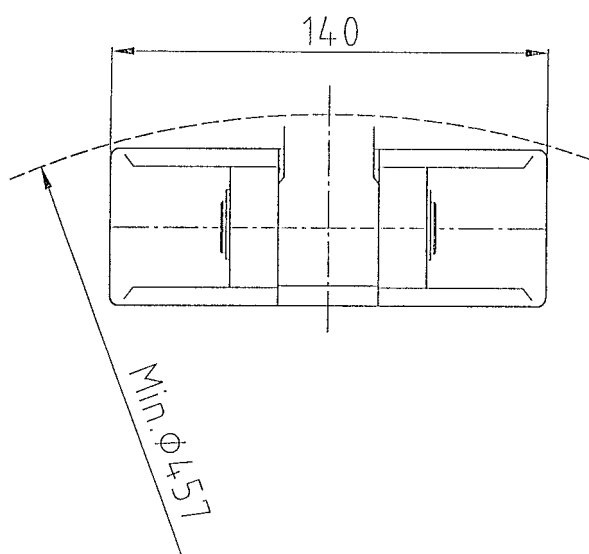
SPX



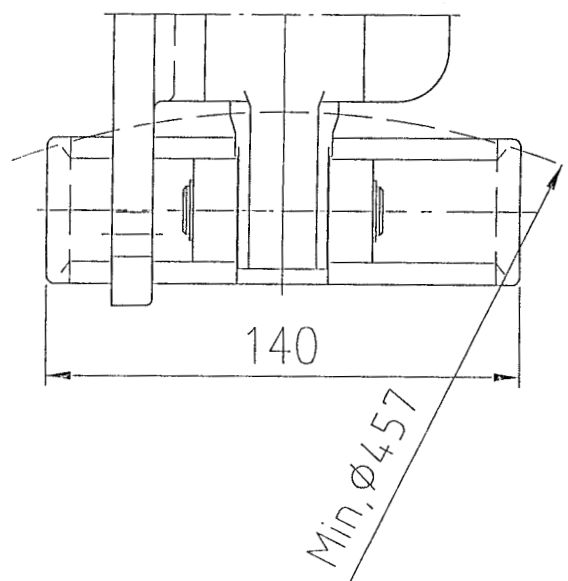
SPG

VERSIONE PATTINO DOPPIO

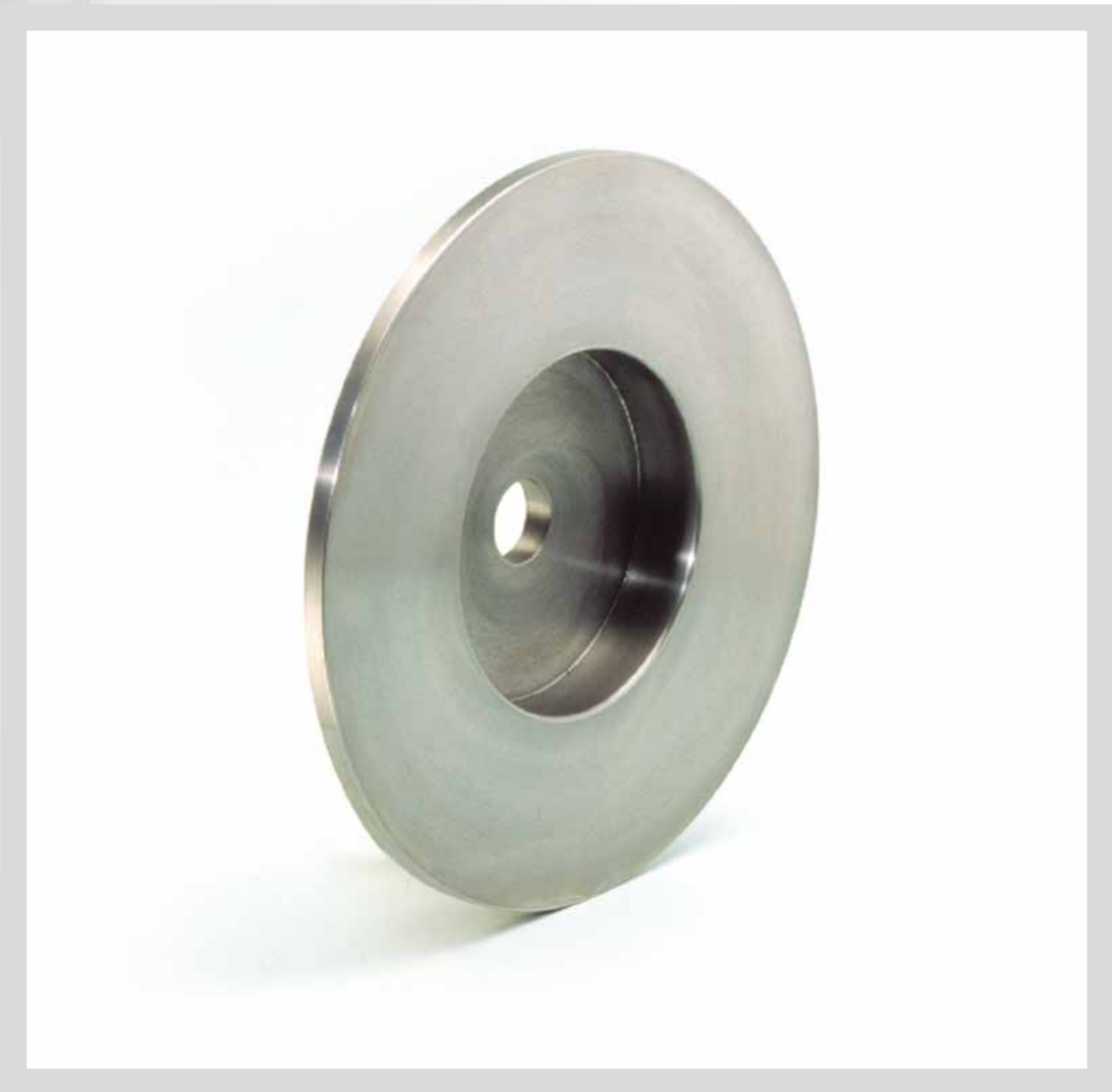
DOUBLE PAD VERSION

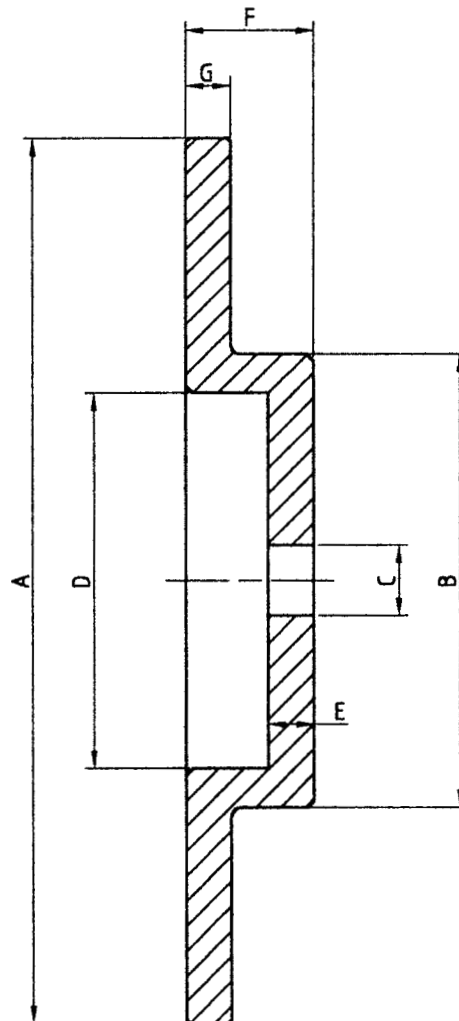


SP



SPG

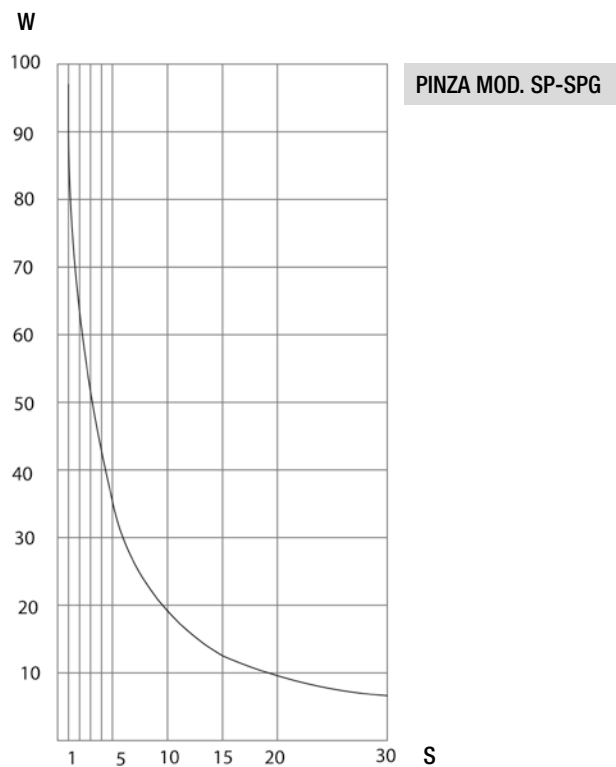




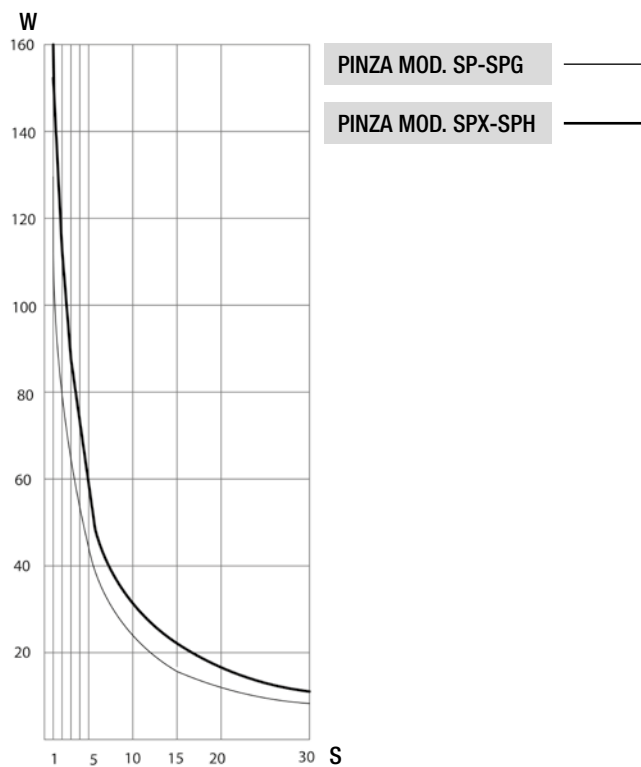
	A	B	C Grezzo Rough	D	E	F	G	Inerzia Inertia	Peso Weight	Giri Max Max speed
Tipo/Type	mm	mm	mm	mm	mm	mm	mm	kg m ²	kg	n/min
D 25	250	128	20	118	6	36	12,7	0,04	4,1	5100
D 30	300	181	30	163	13	41	12,7	0,09	7,4	4200
D 31	300	150	30	130	16	41	12,7	0,09	7	4200
D 35	356	210	40	173	16	54	12,7	0,20	12	3600
D 40	406	260	44	236	16	54	12,7	0,32	14	3100
D 45	457	311	44	276	16	54	12,7	0,56	20	2760
D 50	514	368	44	340	16	54	12,7	0,87	24	2450
D 60	610	464	44	430	16	54	12,7	1,81	35	2000
D 70	711	565	80	528	16	54	12,7	3,40	55	1700

CAPACITÀ TERMICA THERMAL CAPACITY

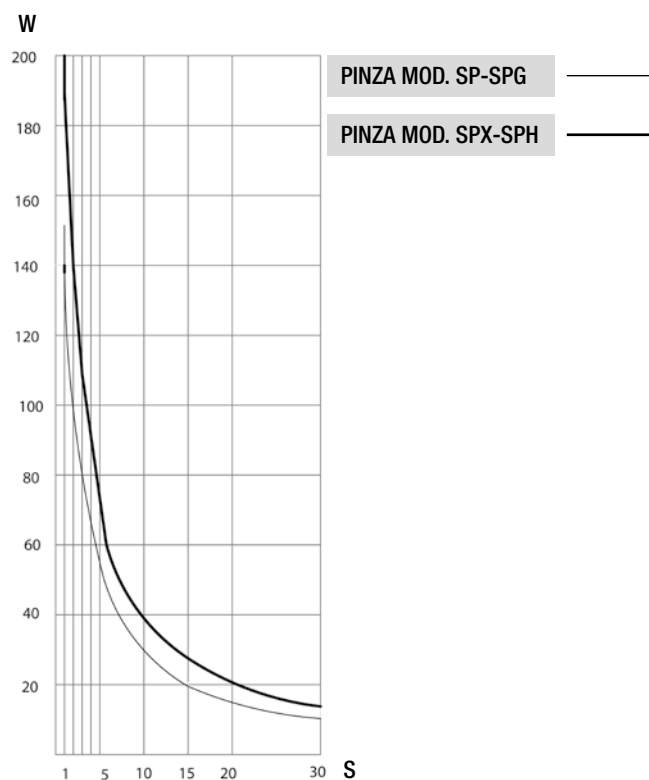
DISCO $\dot{\iota}$ 250



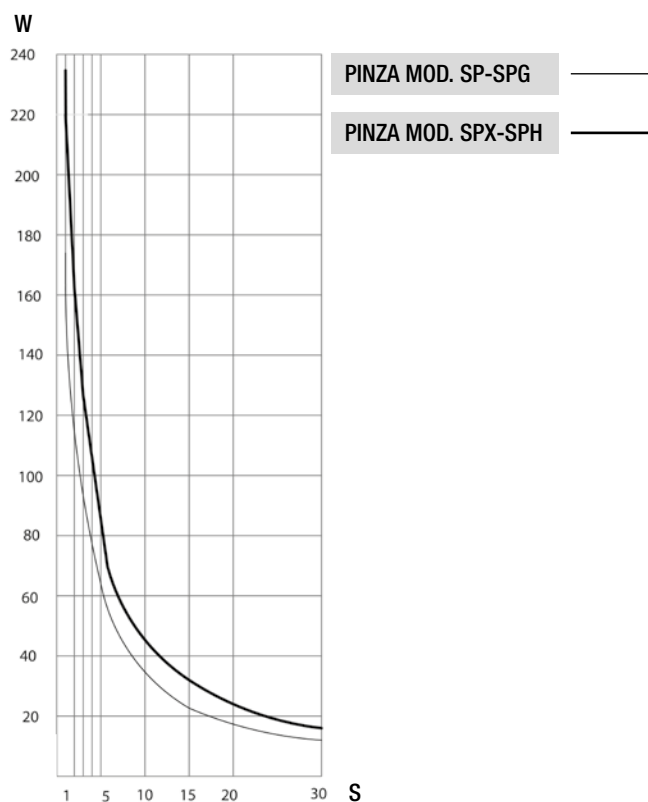
DISCO $\dot{\iota}$ 300



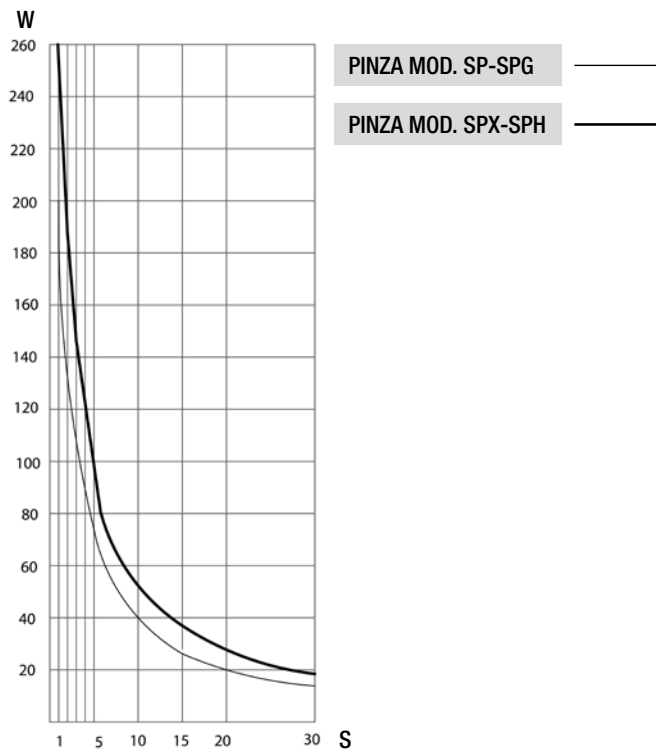
DISCO $\dot{\iota}$ 356



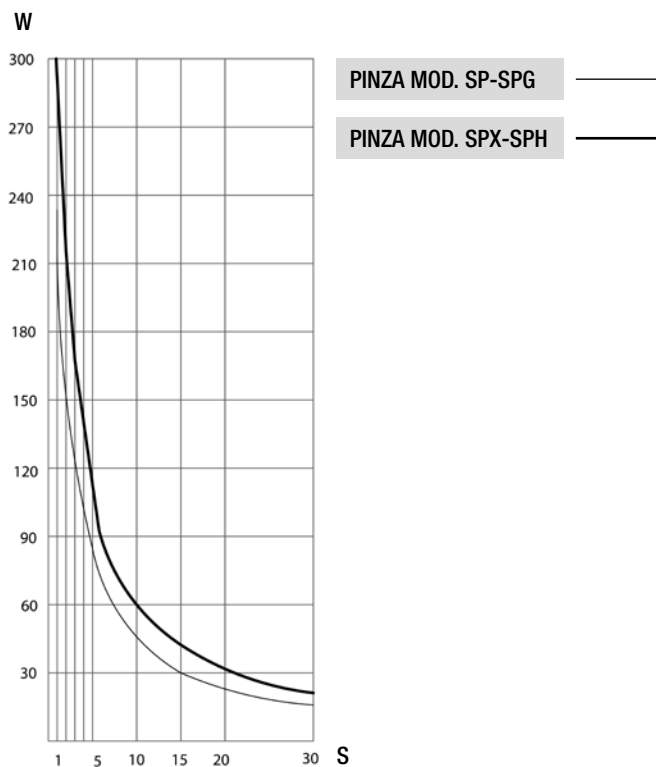
DISCO $\dot{\iota}$ 406



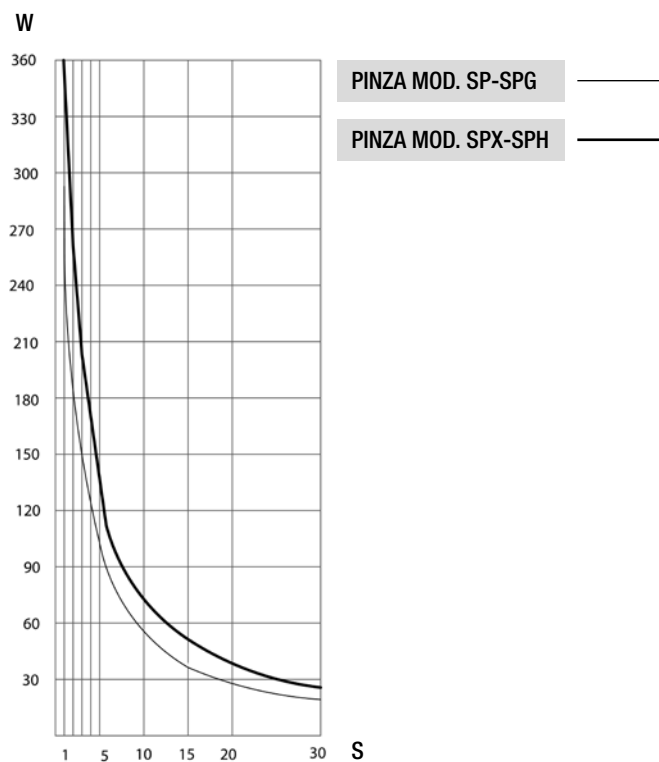
DISCO $\dot{\iota}$ 457



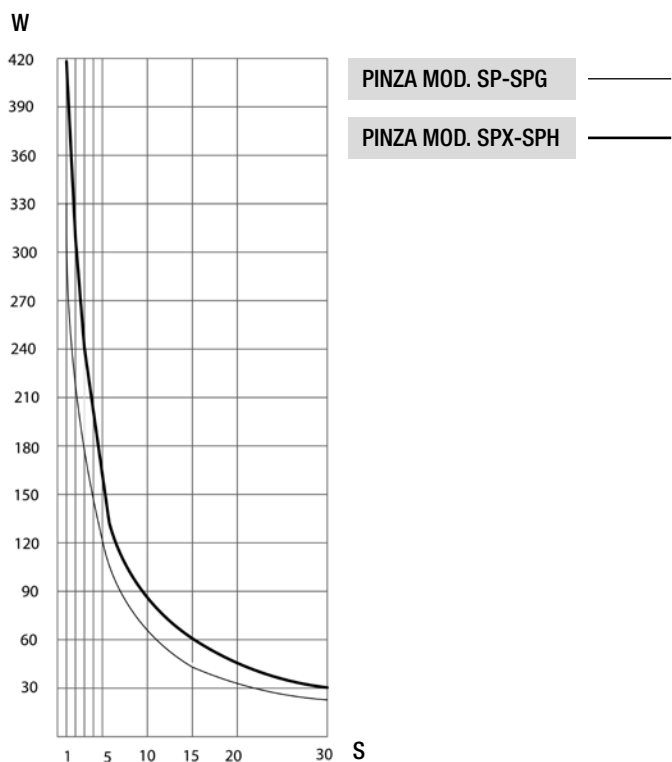
DISCO $\dot{\iota}$ 514



DISCO $\dot{\iota}$ 610



DISCO $\dot{\iota}$ 711



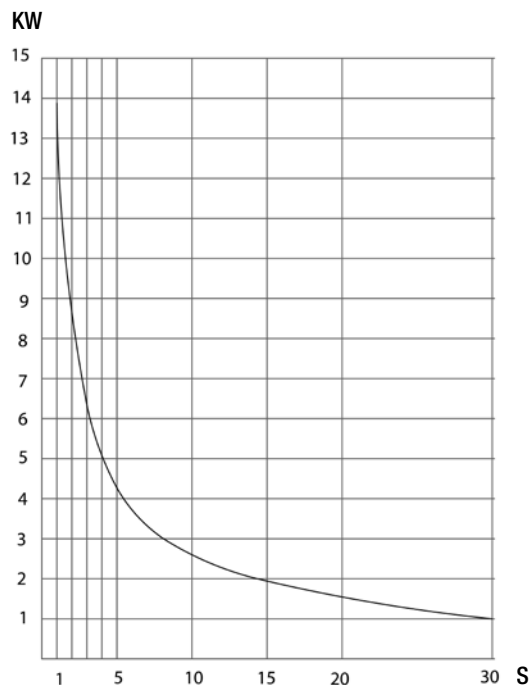
DISSIPAZIONE DI CALORE PER FRENATURA D'EMERGENZA
THERMAL CAPACITY FOR EMERGENCY STOP



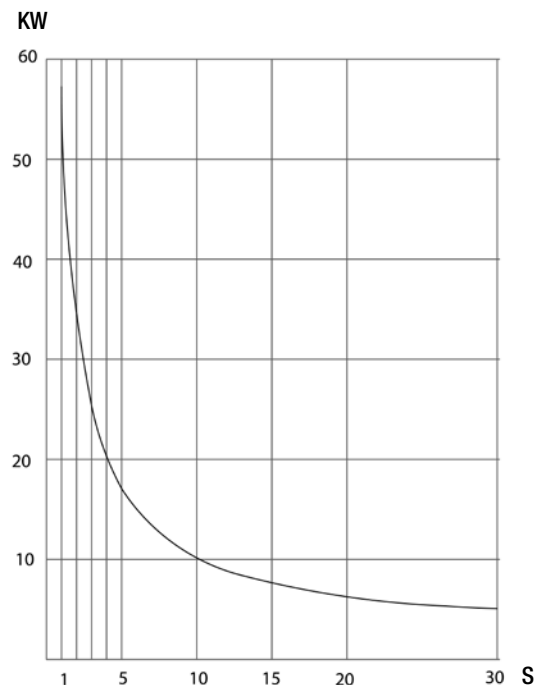
DISSIPAZIONE DI CALORE PER FRENATURA D'EMERGENZA

THERMAL CAPACITY FOR EMERGENCY STOP

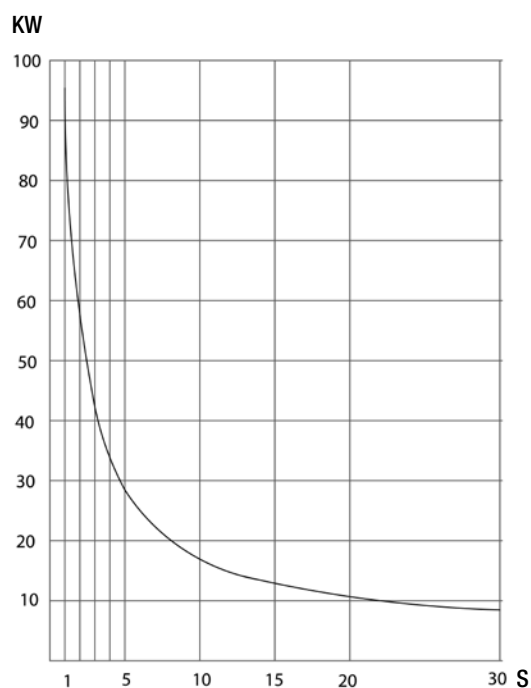
MOD. SPZ



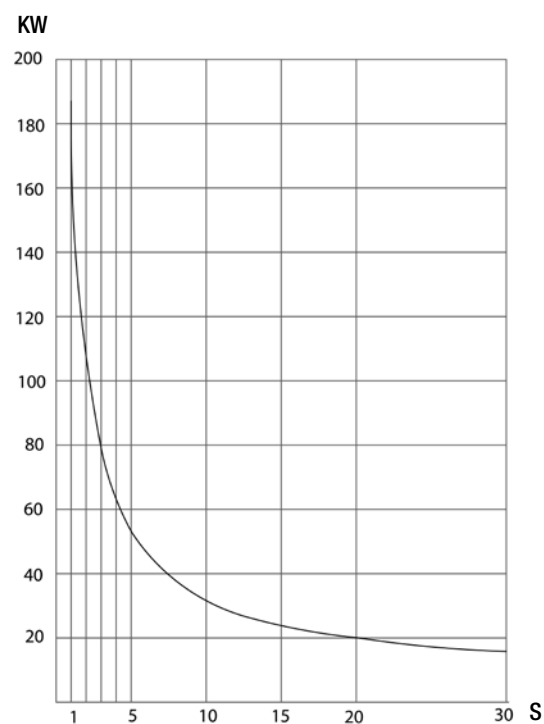
MOD. SPO



MOD. SP-SPG



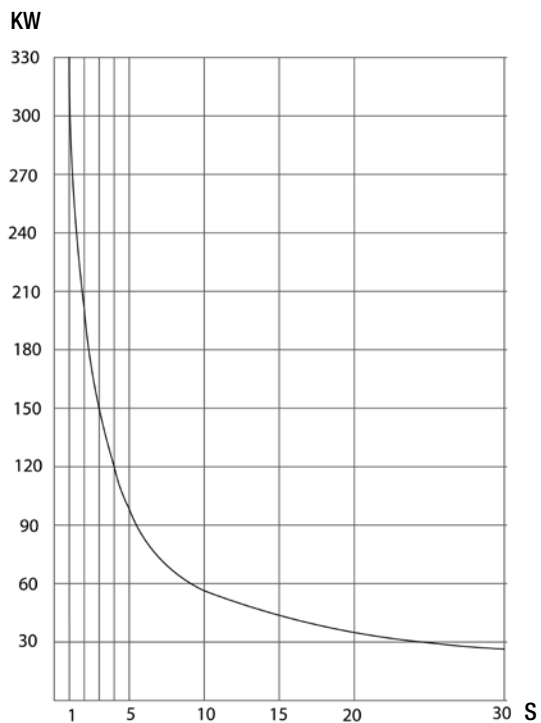
MOD. SPH-SPX



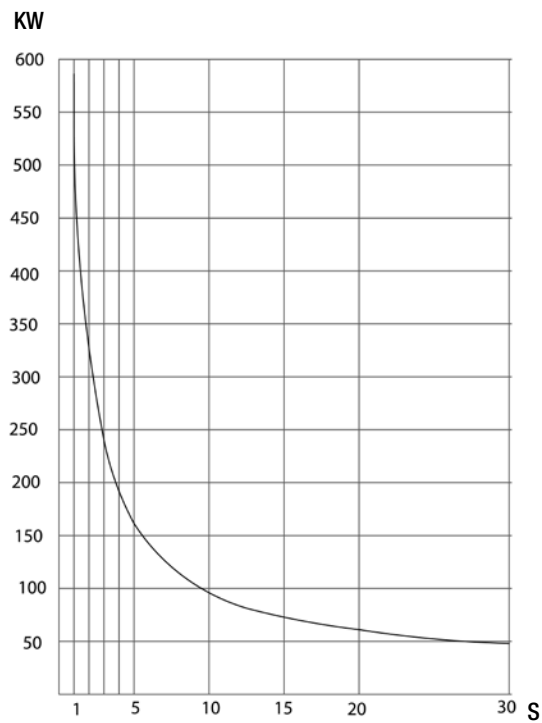
DISSIPAZIONE DI CALORE PER FRENATURA D'EMERGENZA

THERMAL CAPACITY FOR EMERGENCY STOP

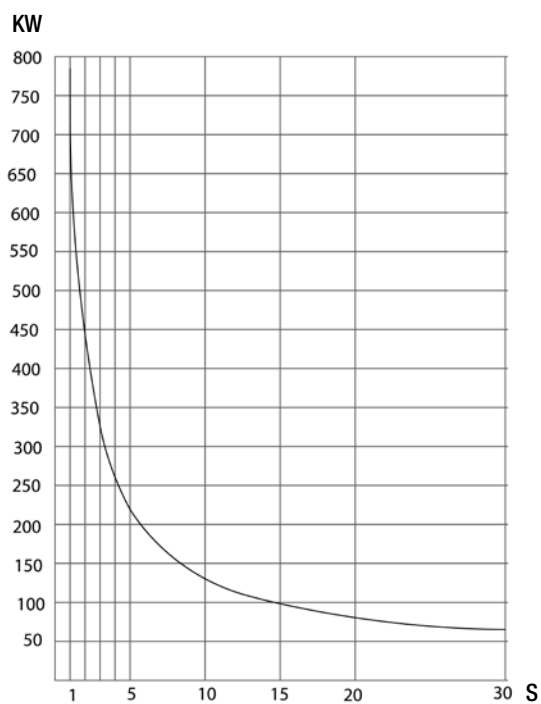
MOD. SPF



MOD. SPL



MOD. SPR

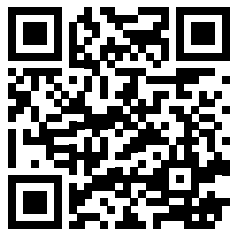




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