

FRENI IDRAULICI

ID



HYDRAULIC BRAKES





FRENI IDRAULICI

Classificazione

Hydraulic Brakes Range

Pagina

Page

IDRAULICI

Positivi

Hydraulically actuated

IDRAULICI

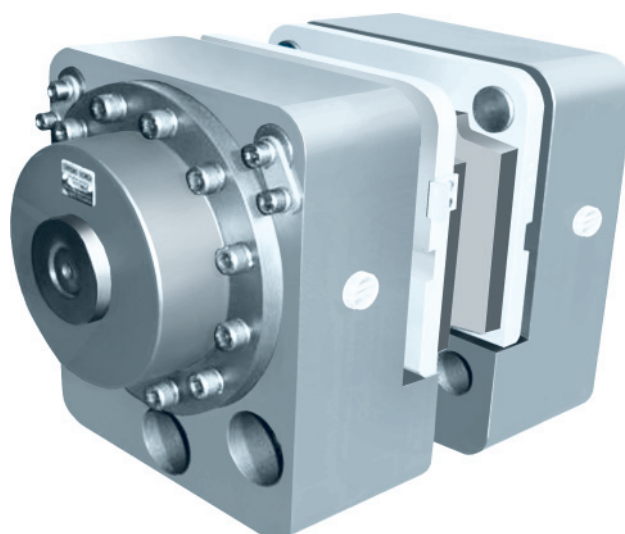
Negativi

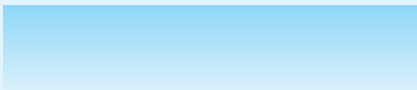
Spring applied hydraulically released

INDICE

INDEX

CORRETTO UTILIZZO DEL PRODOTTO	CORRECT USE OF THE PRODUCT	2 - 3
SELEZIONE	SELECTION	4 - 5
DISCHI	DISCS	6 - 11
A3-ID	A3-ID	14 - 15
D3-ID	D3-ID	16 - 17
F3-ID	F3-ID	18 - 19
G3-ID	G3-ID	20 - 21
ID 800	ID 800	22 - 23
ID 900	ID 900	24 - 25
ID 2000	ID 2000	26 - 27
A2N-ID A3N-ID	A2N-ID A3N-ID	30 - 31
D2N-ID D3N-ID	D2N-ID D3N-ID	32 - 33
E4N-ID	E4N-ID	34 - 35
F2N-ID F3N-ID	F2N-ID F3N-ID	36 - 37
G2N-ID G3N-ID	G2N-ID G3N-ID	38 - 39
ID 800N	ID 800N	40 - 41
ID 900N	ID 900N	42 - 43
ID 1500N	ID 1500N	44 - 45
ID 2000N	ID 2000N	46 - 47
ID 3000N	ID 3000N	48 - 49
ORGANIZZAZIONE DI VENDITA	WORLD WIDE COVERAGE	50





CORRECT USE OF THE PRODUCT



According to EEC rules no. 85/374 we define the correct use of the product in order to comply with safety regulations.

Characteristics of the design

The COREMO OCMEA **Hydraulic Brakes** are designed to operate according to the application, conditions and technical specifications as set out in this catalogue.

We recommend that the maximum data shown are not exceeded.

Application selection

It is essential when selecting to take in consideration an appropriate service factor.

In case of holding duties this factor should be not less than 2. Our Technical Department at COREMO OCMEA is available for informations, suggestions and cooperation for the correct application and use.

Use

The Mounting and Maintenance Instructions must be observed so as to prevent accidents, breakage, etc. Incorrect mounting and maintenance of the unit could also result in reduced life of the product and expensive down time. Warning: the initial torque on new units can be 30% to 50% less than the catalogue value until the linings are settled on the discs.

Precautions for the mounting and maintenance

Operators are advised to wear the correct protective clothing such as gloves, safety glasses, etc.

Rotating parts

The moving parts have to be protected according to the European EEC directives no. 98/37, or the equivalent norms effective in the Countries where they are used.

Spring applied failsafe brakes

Failsafe brakes must be treated with special attention because they have mechanical pre-tensioned springs.

Hydraulic Brakes

Use with mineral oil based hydraulic fluid SAE/ISO 46.

Friction parts

All the COREMO OCMEA **Hydraulic Brakes** are supplied with non asbestos friction material which is in accordance to the Health and Safety regulations.

Even though the linings are asbestos free you should not breathe in the dust produced from the brake linings and if in contact ensure that the hands are clean before eating or drinking.

Oils, greases and lubricating components

Although used in very small quantities we advise those persons who have allergies to use protective creams when maintaining our units and ensuring that the hands are washed before eating or drinking.

Storage

When storing or handling **Hydraulic Brakes** the weight of the product must be observed to ensure correct and safe storage and lifting. We advise that you use the correct protective clothing, safety shoes, helmets, gloves, etc., so as to prevent the risk of accident.

Disposing

All worn linings and other materials used in our **Hydraulic Brakes** are classified as **NON Toxic-Harmful** products, therefore they must be disposed according to the industrial rules and laws of the Country where they are used.

Stocking

The COREMO OCMEA **Hydraulic Brakes** contain contain rubber diaphragms and/or seals; in case of fire they can generate toxic gases, therefore the Fire Brigade or Internal Fire Personnel must use the correct masks when extinguishing.

SELEZIONE

FRENATURA DI INERZIE ELEVATE FRENATURA DI EMERGENZA DOVE

C	Coppia dinamica	Nm
J	Inerzia	kgm ²
n	Velocità di rotazione	min ⁻¹
t	Tempo di frenatura	s
Q	Calore prodotto/frenata	kW

$$C = \frac{J \cdot n}{9.55 \cdot t}$$

$$Q = \frac{J \cdot n^2}{182.5 \cdot 10^3 \cdot t}$$

SELECTION

HIGH INERTIA STOP EMERGENCY STOP WHERE

C	Dynamic torque	Nm
J	Total inertia load	kgm ²
n	Rotating speed	min ⁻¹
t	Time	s
Q	Heat/each stop	kW

FRENATURA CICLICA DOVE

C	Coppia dinamica	Nm
J	Inerzia	kgm ²
n	Velocità di rotazione	min ⁻¹
t	Tempo di frenatura	s
Q	Calore prodotto/frenata	kW
Qc	Calore prodotto in continuo	kW
s	Interventi/minuto	

$$C = \frac{J \cdot n}{9.55 \cdot t}$$

$$Q = \frac{J \cdot n^2}{182.5 \cdot 10^3 \cdot t}$$

$$Qc = \frac{Q \cdot s \cdot t}{60}$$

CYCLIC STOP WHERE

C	Dynamic torque	Nm
J	Total inertia load	kgm ²
n	Rotating speed	min ⁻¹
t	Time	s
Q	Heat/each stop	kW
Qc	Heat continuous	kW
s	Stops/minute	

Tutti i valori relativi alla dissipazione di calore, riportati in questo catalogo, sono riferiti a $\Delta T = 170 \text{ }^\circ\text{C}$

Richiedeteci la selezione per il freno più idoneo

All the data, shown on this catalogue, regarding thermal capacity are referred to $\Delta T = 170 \text{ }^\circ\text{C}$

To select your proper brake consult our technical office

Frenata di emergenza

Emergency stop

Inerzia da frenare	486 kgm ²	<i>total inertia</i>
Velocità di rotazione	250 min ⁻¹	<i>rotating speed</i>
Tempo di frenatura	3 s	<i>braking time</i>
<i>Tipo di freno: negativo</i>		<i>type of brake: failsafe</i>
- Coppia di frenatura	$\frac{486 \times 250}{9.55 \times 3} = 4241 \text{ Nm}$	<i>braking torque</i>
- Calore prodotto ad ogni frenata	$\frac{486 \times 250^2}{182.5 \times 10^3 \times 3} = 55.5 \text{ kW}$	<i>mean braking power</i>

Selezione

Selection

N° 2 freni D3N-ID con 1 disco diametro 514 mm	<i>No. 2 brakes D3N-ID with 1 disc dia. 514 mm</i>
- Coppia di frenatura	2330 Nm x 2 = 4660 Nm <i>braking torque</i>
- Capacità termica del freno	84 kW x 2 = 168 kW <i>brake thermal capacity</i>
- Capacità termica del disco	176 kW <i>disc thermal capacity</i>

VERIFICA		VERIFICATION
- Tempo di frenatura	$\frac{486 \times 250}{9.55 \times 4660} = 2.73 \text{ s}$	<i>mean braking power</i>
- Calore prodotto ad ogni frenata	$\frac{486 \times 250^2}{182.5 \times 10^3 \times 2.73} = 61 \text{ kW}$	<i>mean braking power</i>
Temperatura teorica del disco a temperatura ambiente (20 °C)	59 °C + 20 °C = 79 °C	<i>estimate disc surface temperature at ambient temperature (20 °C)</i>

Frenata Ciclica

Cyclic stop

Inerzia da frenare	700 kgm ²	<i>total inertia</i>
Velocità di rotazione	500 min ⁻¹	<i>rotating speed</i>
Tempo di frenatura	15 s	<i>braking time</i>
<i>Tipo di freno: negativo</i>		<i>type of brake: failsafe</i>
Interventi / ora	1	<i>Stop / hour</i>
- Coppia di frenatura	$\frac{700 \times 500}{9.55 \times 15} = 2443.28 \text{ Nm}$	<i>braking torque</i>
- Calore prodotto ad ogni frenata	$\frac{700 \times 500^2}{182.5 \times 10^3 \times 15} = 63.93 \text{ kW}$	<i>Heat / each stop</i>
Calore prodotto in continuo	$\frac{63.93 \times 1 \times 15}{3600} = 0.27 \text{ kW}$	<i>Heat continuous</i>

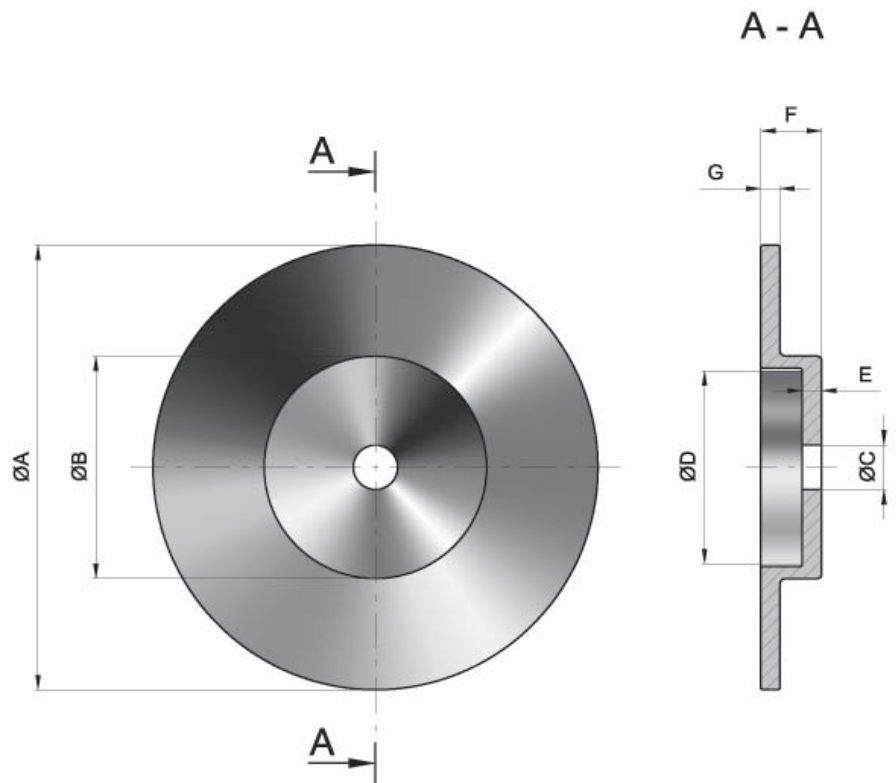
Selezione

Selection

N° 1 freno ID900N-15 con 1 disco diametro 610 mm	<i>No. 1 brake ID900N-15 with 1 disc dia. 610 mm</i>	
- Coppia di frenatura	$15.000 \left[\left(\frac{0.610}{2} \right) - 0.054 \right] = 3765 \text{ Nm}$	<i>braking torque</i>
- Capacità termica del freno	13 kW	<i>brake thermal capacity</i>
- Capacità termica del disco	247.6 kW	<i>disc thermal capacity</i>

VERIFICA		VERIFICATION
- Tempo di frenatura	$\frac{700 \times 500}{9.55 \times 3765} = 9.73 \text{ s}$	<i>braking time</i>
- Calore prodotto ad ogni frenata	$\frac{700 \times 500^2}{182.5 \times 10^3 \times 9.73} = 98.5 \text{ kW}$	<i>heat / each stop</i>
- Calore prodotto in continuo	$\frac{98.5 \times 1 \times 9.73}{3600} = 0.27 \text{ kW}$	<i>heat continuous</i>
Temperatura teorica del disco a temperatura ambiente (30 °C)	100 °C + 30 °C = 130 °C	<i>estimate disc surface temperature at ambient temperature (30 °C)</i>

Dischi



DIMENSIONI DIMENSIONS

TIPO SIZE	Cod. Prodotto Product Number	Ø A	Ø B	Ø C grezzo rough bore	Ø D	E	F	G	Inerzia Inertia	Max Velocità Max speed	Peso Weight
									kgm ²	min ⁻¹	kg
DISCO DISC	A 1302	250	128	20	116	6	36	12.7	0.08	4500	4.2
	A 1303	300	181	30	161	13	41	12.7	0.12	3800	7.3
	A 1311 *	300	150	30	130	13	41	12.7	0.10	3800	7.2
	A 1304	356	210	40	171	16	54	12.7	0.23	3200	12.5
	A 1305	406	260	44	234	16	54	12.7	0.33	2800	15
	A 1306	457	311	44	273	16	54	12.7	0.53	2500	21
	A 1307	514	368	44	336	16	54	12.7	0.83	2200	25
	A 1308	610	464	44	422	16	54	12.7	1.63	1850	37.5
	A 1309	711	565	80	528	19	54	12.7	3.36	1400	55
	A 3158**	610	343	50	280	38	76	25.4	2.9	1850	68
	A 3159**	762	495	100	431	38	76	25.4	7.4	1500	109
	A 3160**	914	648	100	577	38	76	25.4	16	1250	162
A 3161**	1065	800	100	730	38	76	25.4	30	1100	225	

* Per freno tipo D e F

** Non idonei per i freni ID 2000 e ID 2000N

* For D and F caliper brake

** Not suitable for ID 2000 and ID 2000N brakes

Capacità termica in continuo

Continuous thermal capacity

Dischi spessore 12.7 mm.

Discs thickness 12.7 mm.

Discs

DATI TECNICI

GHISA SFEROIDALE

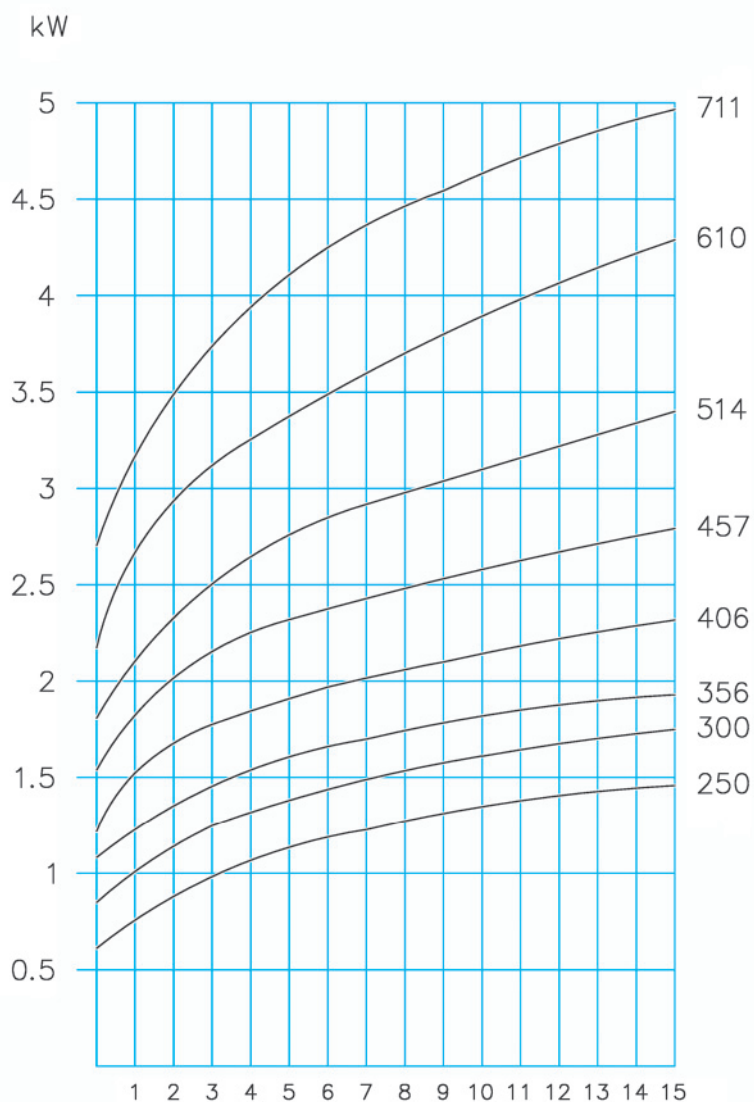
UNI-ISO 1083 - 500.7

TECHNICAL DATA

SG IRON

UNI-ISO 1083 - 500.7

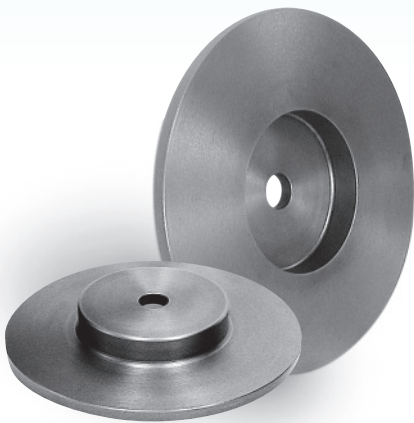
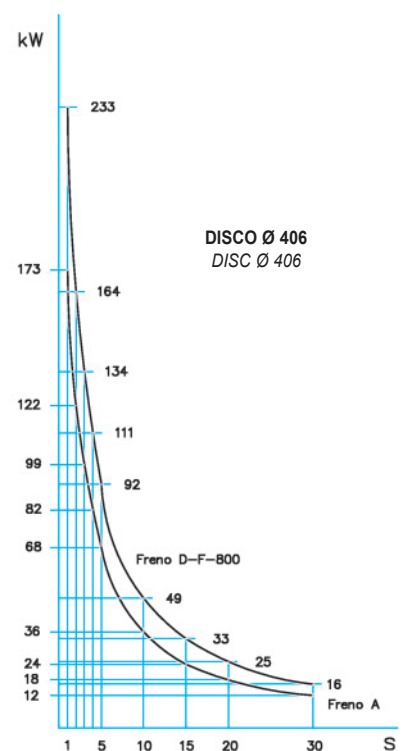
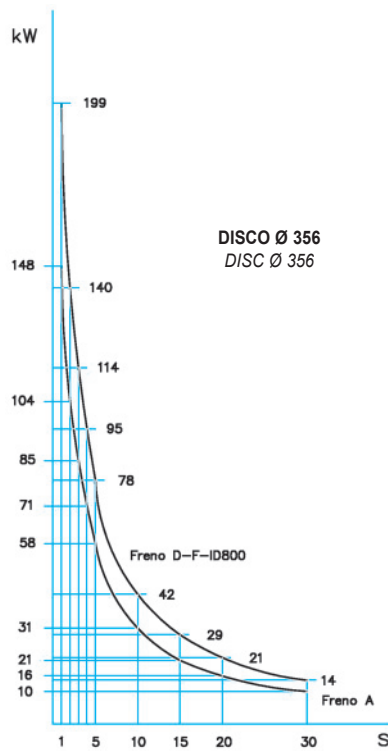
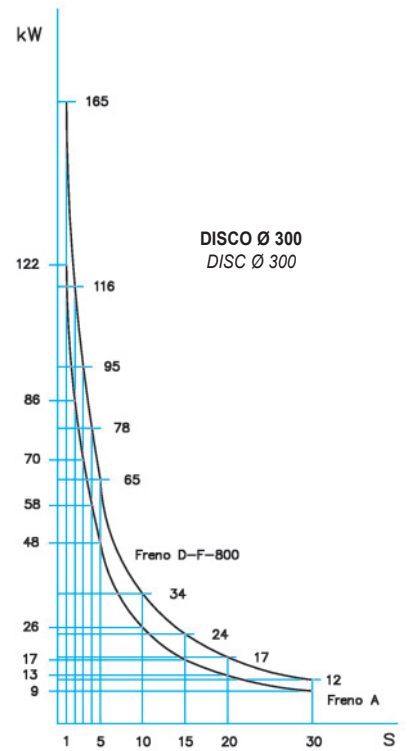
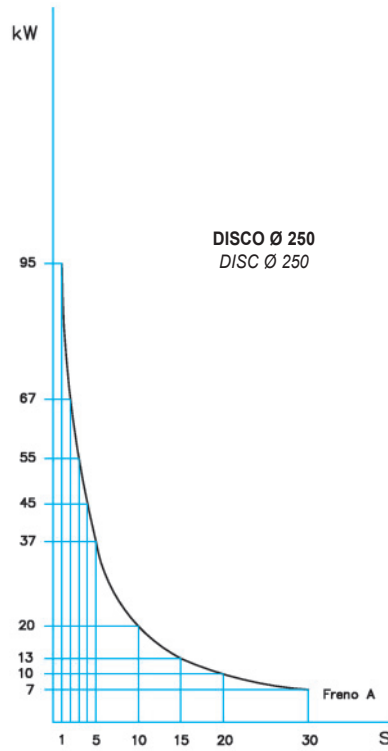
DISSIPAZIONE DI CALORE
IN CONTINUO
CON $\Delta T = 170^{\circ}\text{C}$
CONTINUOUS
THERMAL CAPACITY
WITH $\Delta T = 170^{\circ}\text{C}$



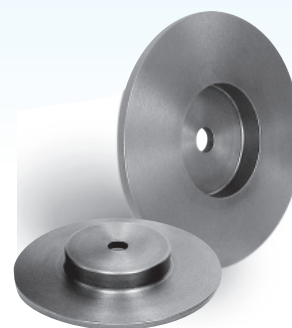
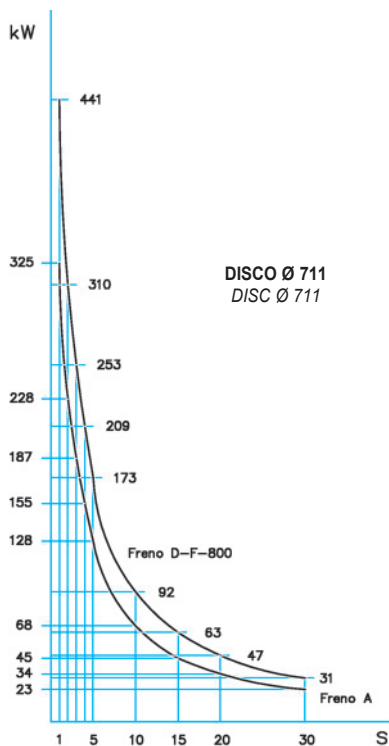
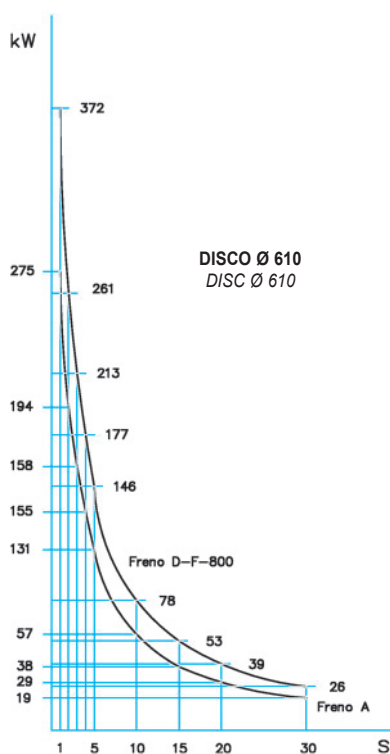
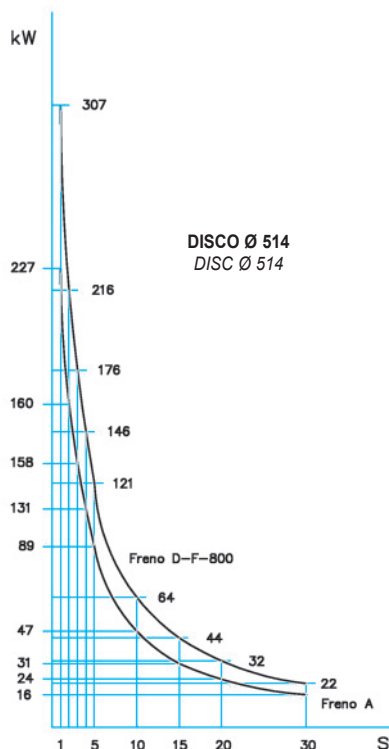
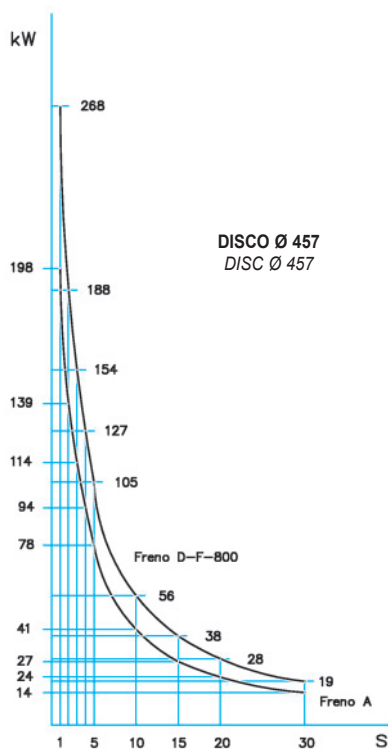
VELOCITÀ DISCO $\text{min}^{-1} \times 100$
DISC SPEED $\text{min}^{-1} \times 100$

DIAMETRO DISCO mm
DISC DIAMETER mm

Spessore 12,7 mm.



Thickness 12,7 mm.



**DISSIPAZIONE DI CALORE
PER FRENATURA
DI EMERGENZA
CON $\Delta T = 170^{\circ}C$**
*THERMAL CAPACITY
FOR EMERGENCY STOP
WITH $\Delta T = 170^{\circ}C$*

Dischi

Capacità termica in continuo Continuous thermal capacity

Dischi spessore 25.4 mm.

Discs thickness 25.4 mm.

DATI TECNICI

GHISA SFEROIDALE

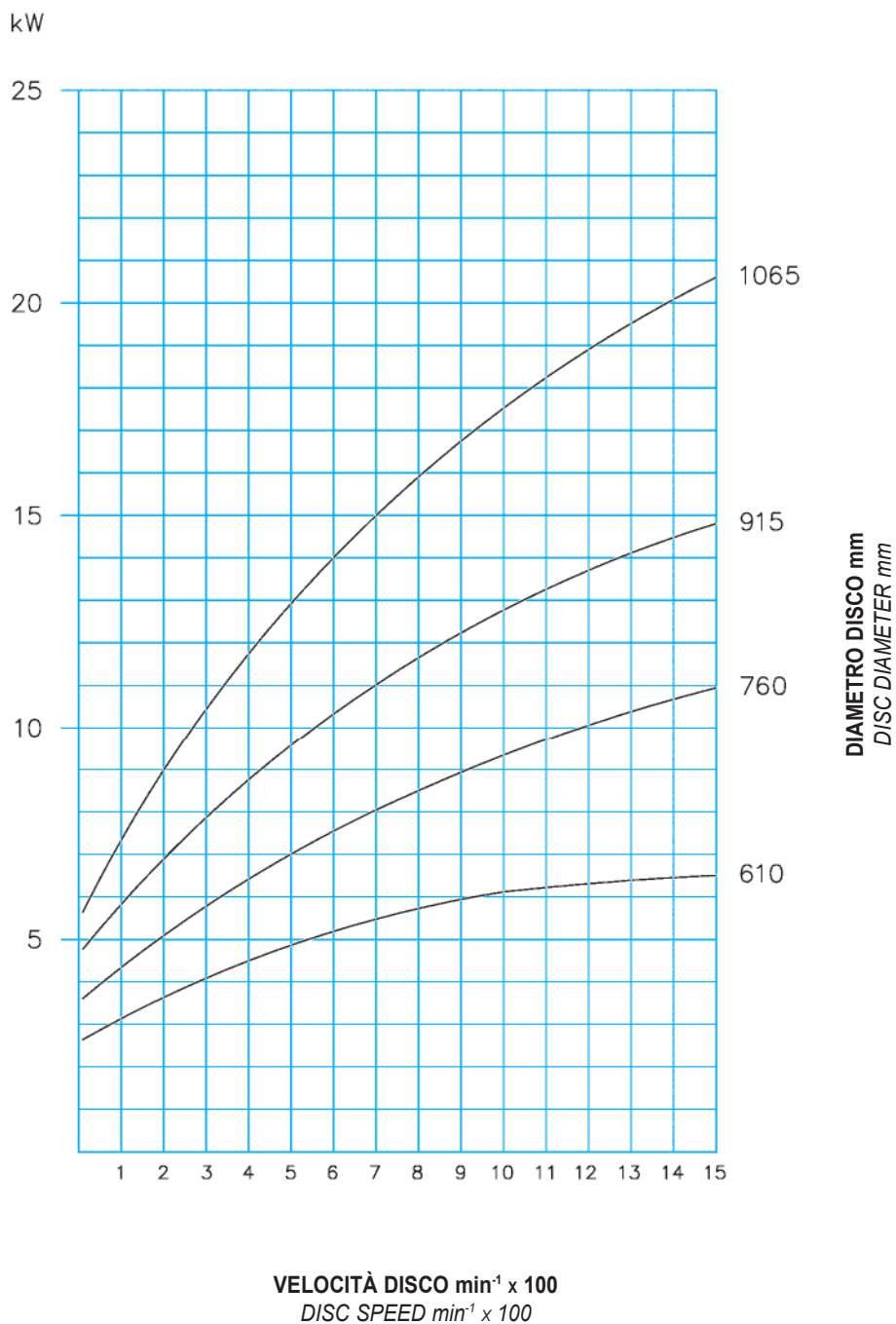
UNI-ISO 1083 - 500.7

TECHNICAL DATA

SG IRON

UNI-ISO 1083 - 500.7

DISSIPAZIONE DI CALORE
IN CONTINUO
CON $\Delta T = 170^{\circ}\text{C}$
CONTINUOUS
THERMAL CAPACITY
WITH $\Delta T = 170^{\circ}\text{C}$



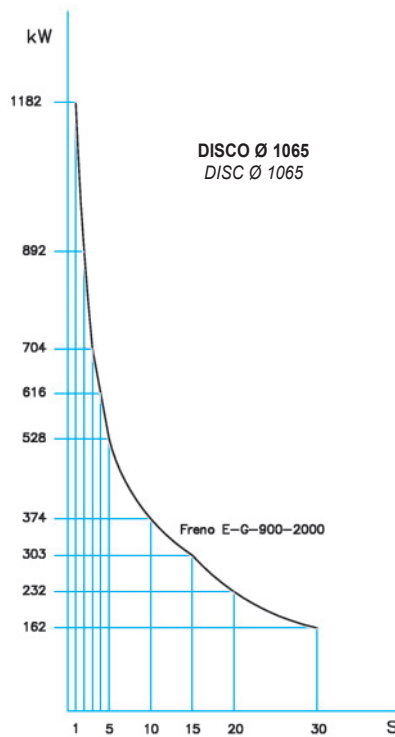
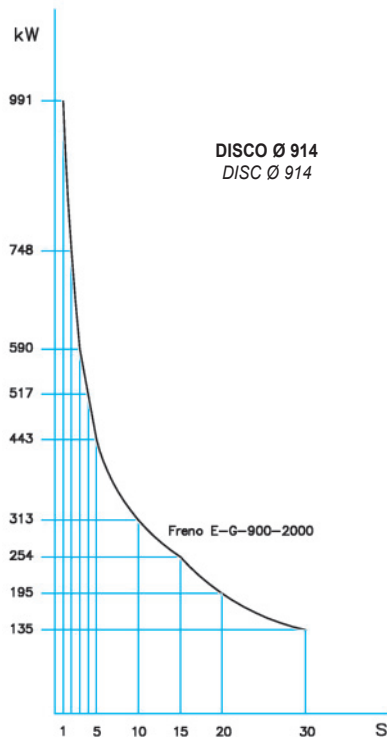
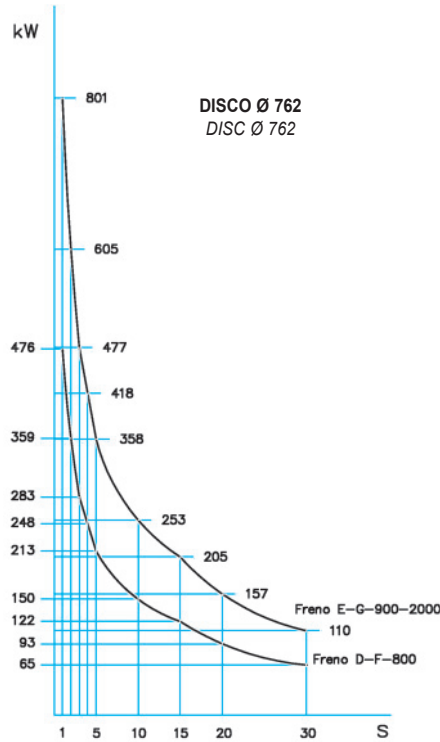
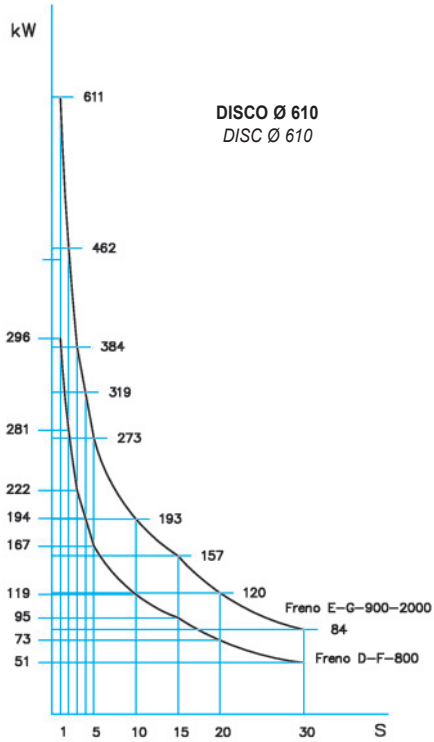
VELOCITÀ DISCO $\text{min}^{-1} \times 100$
DISC SPEED $\text{min}^{-1} \times 100$

Capacità termica frenata d'emergenza

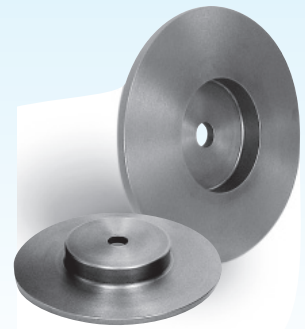
Thermal capacity - Emergency stop

Dischi spessore 25.4 mm.

Discs thickness 25.4 mm.

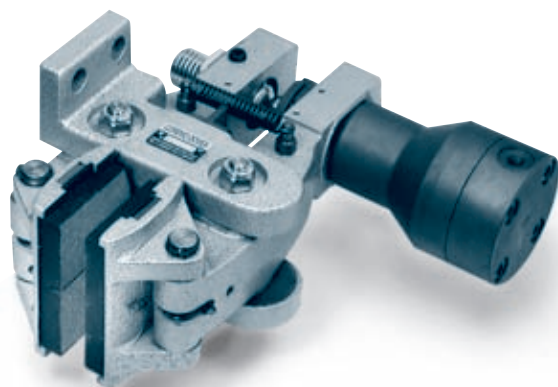


Discs



**DISSIPAZIONE DI CALORE
PER FRENATURA
DI EMERGENZA
CON $\Delta T = 170^{\circ}C$
THERMAL CAPACITY
FOR EMERGENCY STOP
WITH $\Delta T = 170^{\circ}C$**

IDRAULICI Positivi



HYDRAULIC *Hydraulically actuated*

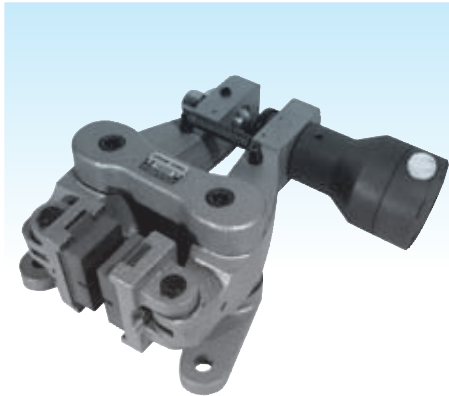
Se la Vostra macchina permette solo azionamenti idraulici, la serie dei freni COREMO a comando idraulico vi offre molte soluzioni per la frenatura. Sono disponibili tutti i modelli già commercializzati da anni per la serie pneumatica.

If your machine is hydraulically actuated, Coremo hydraulic brakes range offers many solutions to solve braking problems. All types are available fully matching with pneumatic range.

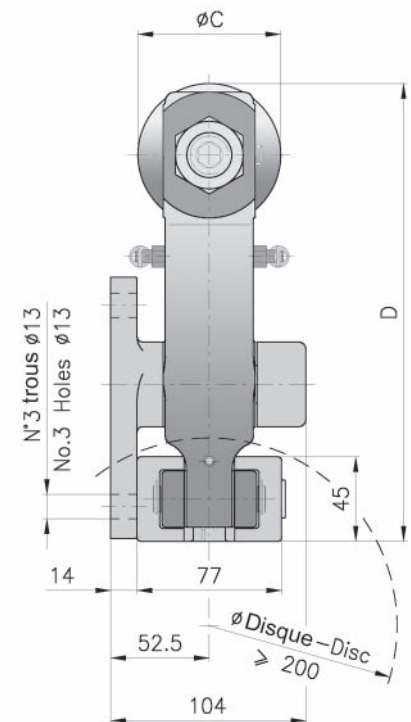
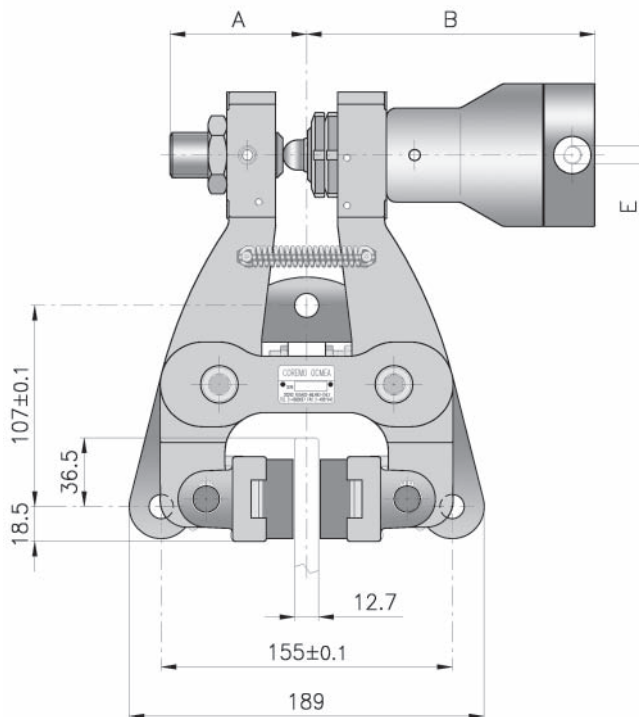
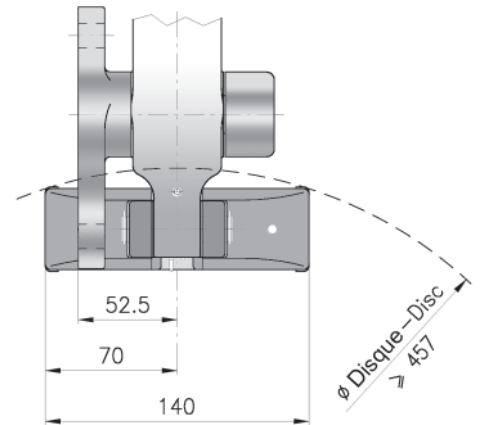
A3-ID

Disponibile anche per disco spessore 25.4 mm.

Available also for disc thickness 25.4 mm.



Versione pattino doppio
Double pad version



DIMENSIONI DIMENSIONS

TIPO SIZE	Cod. Prodotto Product Number		A	B	ϕC	D	E	Volume olio Oil Volume dm ³	Peso Weight kg
	S.P.	S.U.							
A3-ID	A3298	A3300	73	153.5	76	243.5	1/8" gas	0.025	12.6
S.P. = Produzione Standard / Standard Production S.U. = Con segnalatore di usura / With Wear Indicator									

Attenzione: La coppia iniziale può essere dal 30% al 50% in meno rispetto al valore nominale, fino all'assestamento del ferodo sul disco.
Warning: The initial torque on new units can be 30% to 50% less than the catalogue value until the friction facing and friction disc are lapped or worn in.

DATI TECNICI

Forza tangenziale F:

A3-ID 15987 N a 100 bar

Coppia dinamica
= $F \cdot (\text{raggio del disco in m} - 0.03) = \text{Nm}$

Pressione max: 100 bar

Usura max totale: 16 mm

Spessore del ferodo nuovo: 16 mm

Dissipazione del calore in continuo
Qc: 1.7 kW

Dissipazione di calore in continuo
con pattino doppio
Qc: 2.7 kW

Tipo di olio:
olio a base minerale SAE/ISO 46

Volume olio per uno spostamento
di 2 mm per ciascun ferodo: 0.009 dm³

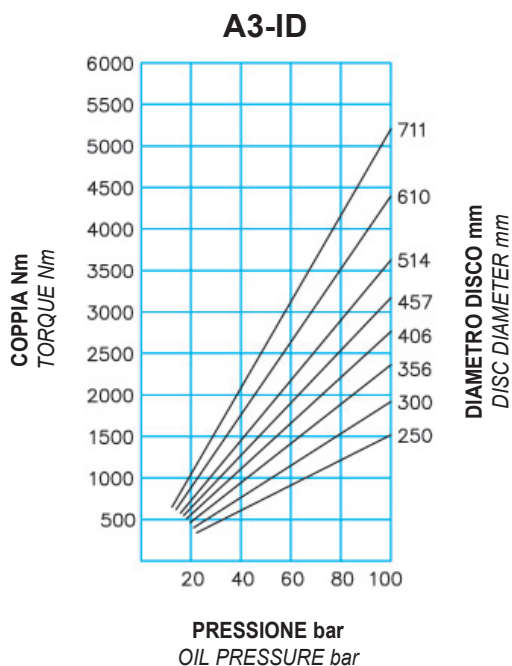
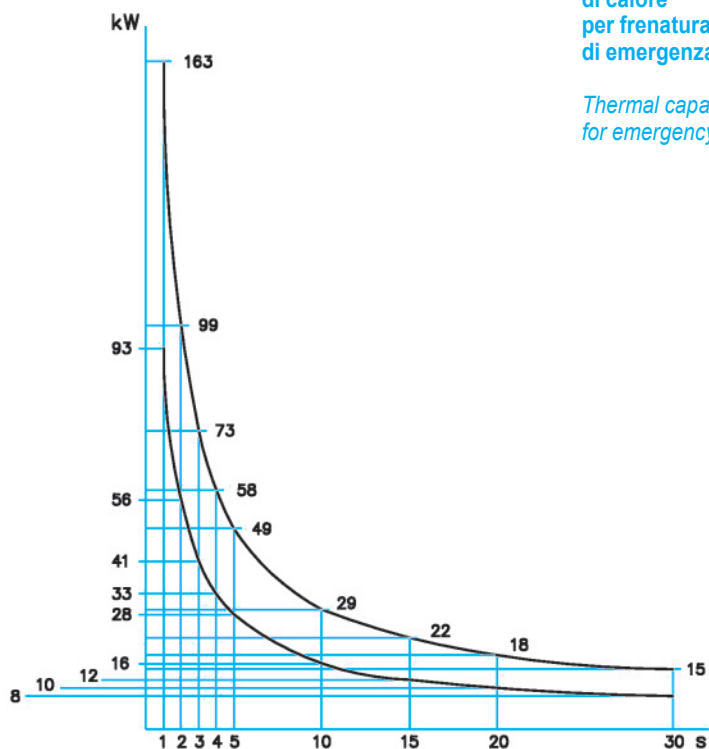


DIAGRAMMA CHART



Dissipazione
di calore
per frenatura
di emergenza

Thermal capacity
for emergency stop

TECHNICAL DATA

Braking force F:

A3-ID 15987 N at 100 bar

Dynamic torque
= $F \cdot (\text{disc radius in m} - 0.03) = \text{Nm}$

Max pressure: 100 bar

Max total wear: 16 mm

Thickness of new lining: 16 mm

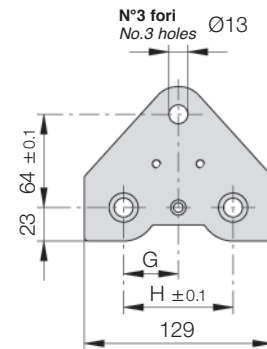
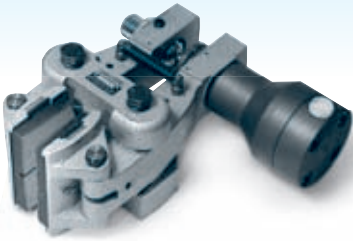
Continuous thermal capacity
Qc: 1.7 kW

Continuous thermal capacity
for double pad version
Qc: 2.7 kW

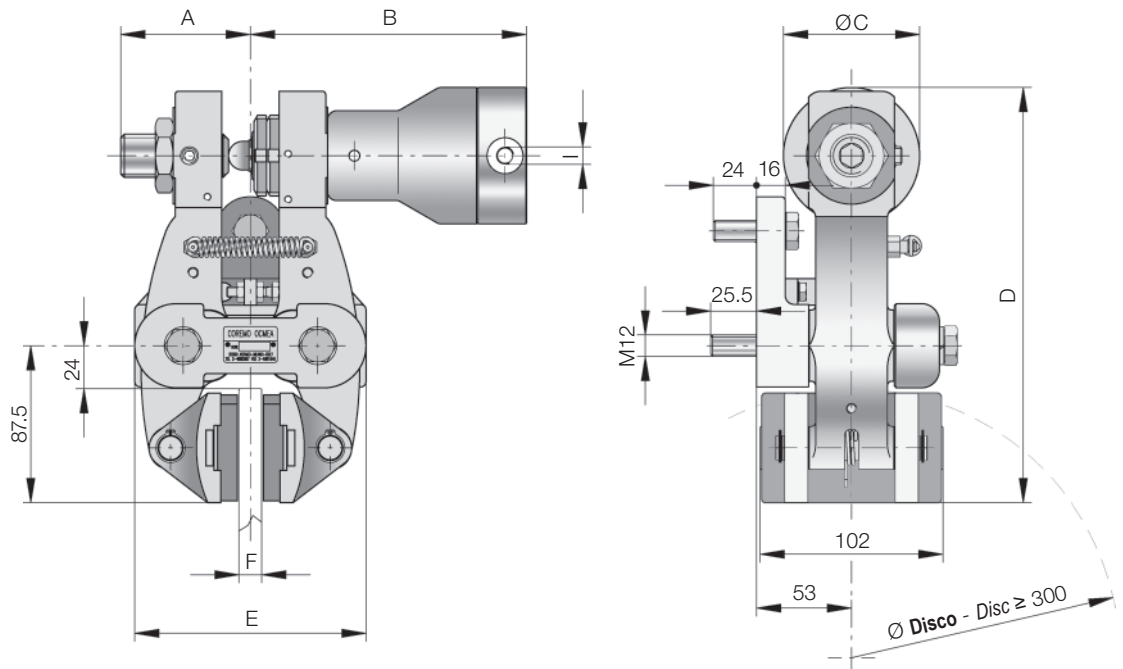
Hydraulic fluid:
Mineral oil based SAE/ISO 46

Total oil displacement for 2 mm
movement of each pad: 0.009 dm³

D3-ID



Vista base di montaggio
View on caliper base



DIMENSIONI DIMENSIONS

TIPO SIZE	Codice Prodotto Product Number	A	B	ØC	D	E	F	G	H	I	Volume olio Oil Volume dm ³	Peso Weight kg
D3-ID	A2686	72	154	76	231.5	129	12.7	37.5	75	1/8"gas	0.025	11.3
	A2694	71.5	156	76	235	132	25.4	42	84	1/8"gas	0.025	11.3
	A2702	83	163	76	231.5	140	30	37.5	75	1/8"gas	0.025	11.3
	A2710	79	167.5	76	231.5	149	40	42	84	1/8"gas	0.025	11.3

Attenzione: La coppia iniziale può essere dal 30% al 50% in meno rispetto al valore nominale, fino all'assestamento del ferodo sul disco.
Warning: The initial torque on new units can be 30% to 50% less than the catalogue value until the friction facing and friction disc are lapped or worn in.

DATI TECNICI

Forza tangenziale F:

D3-ID 14868 N a 100 bar

Coppia dinamica
= $F \cdot (\text{raggio del disco in m} - 0.033) = \text{Nm}$

Pressione max: 100 bar

Usura max totale: 12 mm

Spessore del ferodo nuovo: 11 mm

Dissipazione del calore in continuo
Qc: 3.4 kW

Tipo di olio:

olio a base minerale SAE/ISO 46

Volume olio per uno spostamento
di 2 mm per ciascun ferodo: 0.008 dm³

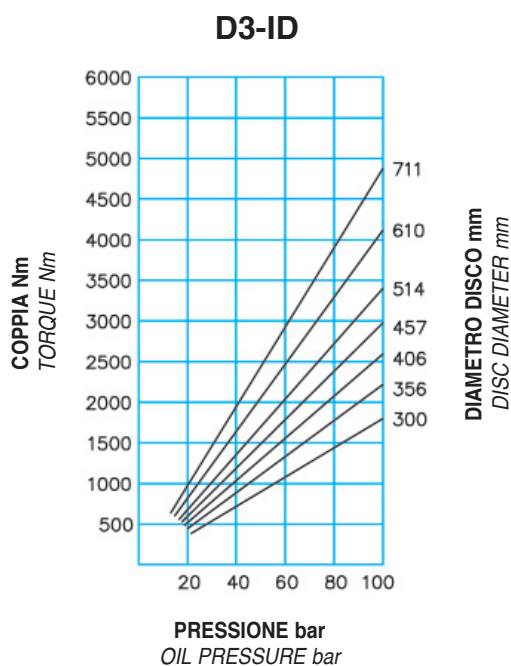
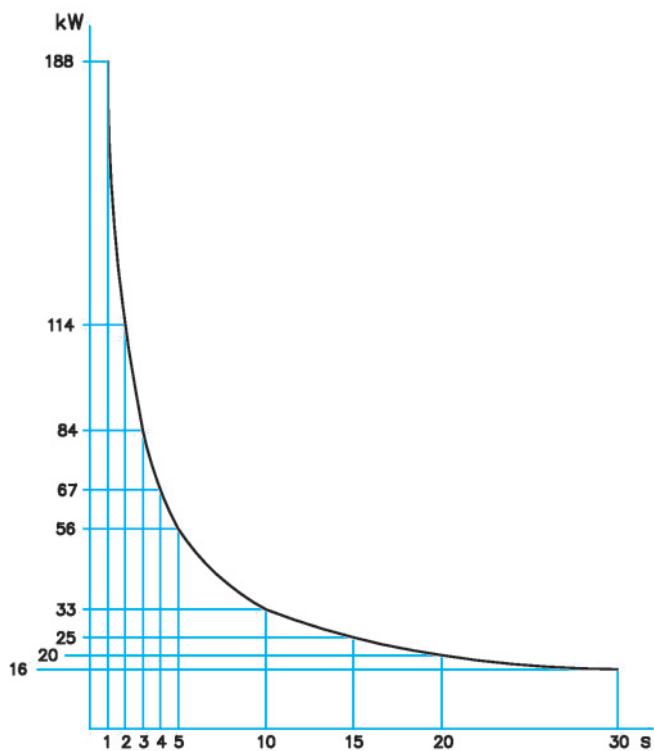


DIAGRAMMA CHART



Dissipazione
di calore
per frenatura
di emergenza

Thermal capacity
for emergency stop

TECHNICAL DATA

Braking force F:

D3-ID 14868 N at 100 bar

Dynamic torque
= $F \cdot (\text{disc radius in m} - 0.033) = \text{Nm}$

Max pressure: 100 bar

Max total wear: 12 mm

Thickness of new lining: 11 mm

Continuous thermal capacity
Qc: 3.4 kW

Hydraulic fluid:

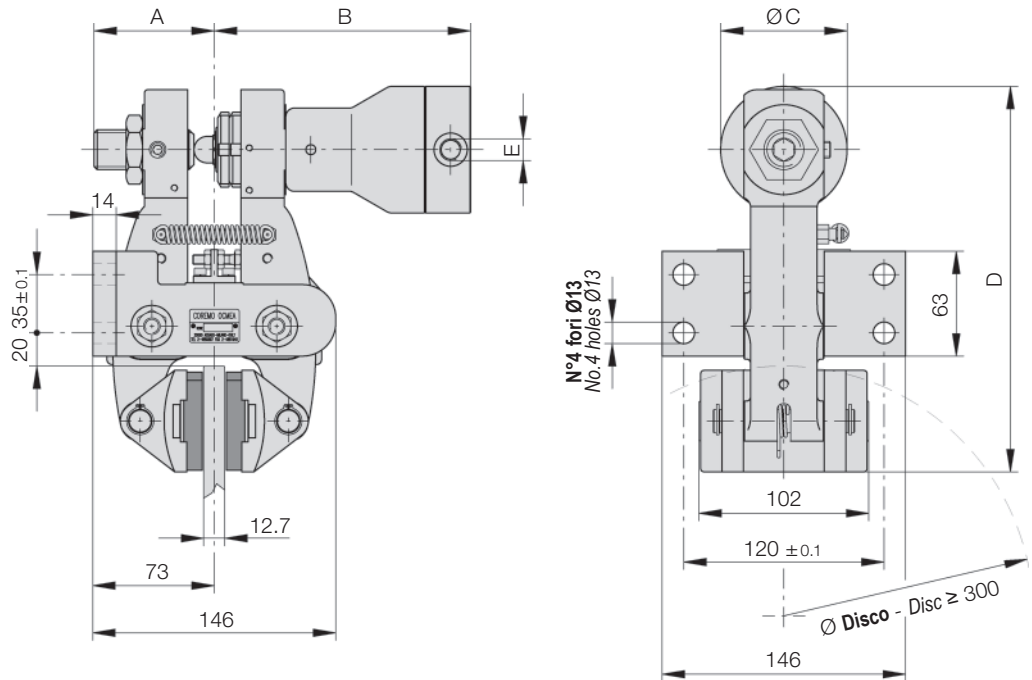
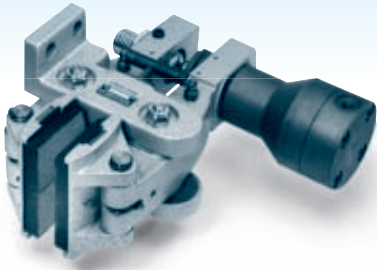
Mineral oil based SAE/ISO 46

Total oil displacement for 2 mm
movement of each pad: 0.008 dm³

F3-ID

Disponibile anche per disco spessore 25.4 - 30 - 40 mm.

Available also for disc thickness 25.4 - 30 - 40 mm.



DIMENSIONI DIMENSIONS

TIPO SIZE	Cod. Prodotto Product Number	A	B	ØC	D	E	Volume olio Oil Volume dm ³	Peso Weight kg
F3-ID	A2814	72	154	76	231.5	1/8" gas	0.025	11

Attenzione: La coppia iniziale può essere dal 30% al 50% in meno rispetto al valore nominale, fino all'assestamento del ferodo sul disco.
Warning: The initial torque on new units can be 30% to 50% less than the catalogue value until the friction facing and friction disc are lapped or worn in.

DATI TECNICI

Forza tangenziale F:

F3-ID 14868 N a 100 bar

Coppia dinamica
= $F \cdot (\text{raggio del disco in m} - 0.033) = \text{Nm}$

Pressione max: 100 bar

Usura max totale: 12 mm

Spessore del ferodo nuovo: 11 mm

Dissipazione del calore in continuo
Qc: 3.4 kW

Tipo di olio:

olio a base minerale SAE/ISO 46

Volume olio per uno spostamento
di 2 mm per ciascun ferodo: 0.008 dm³

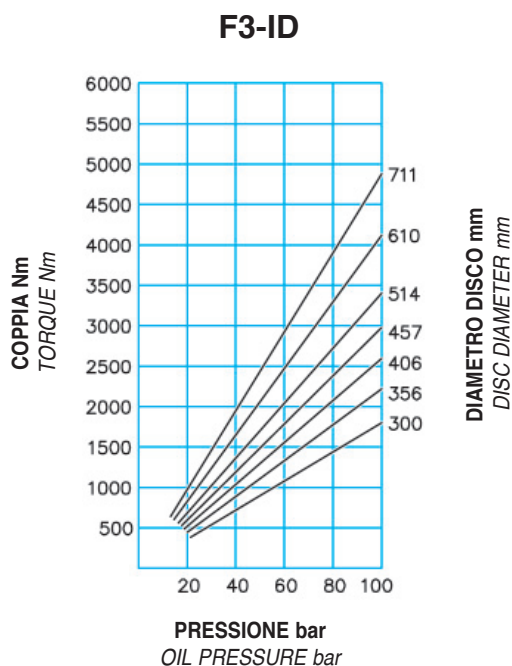
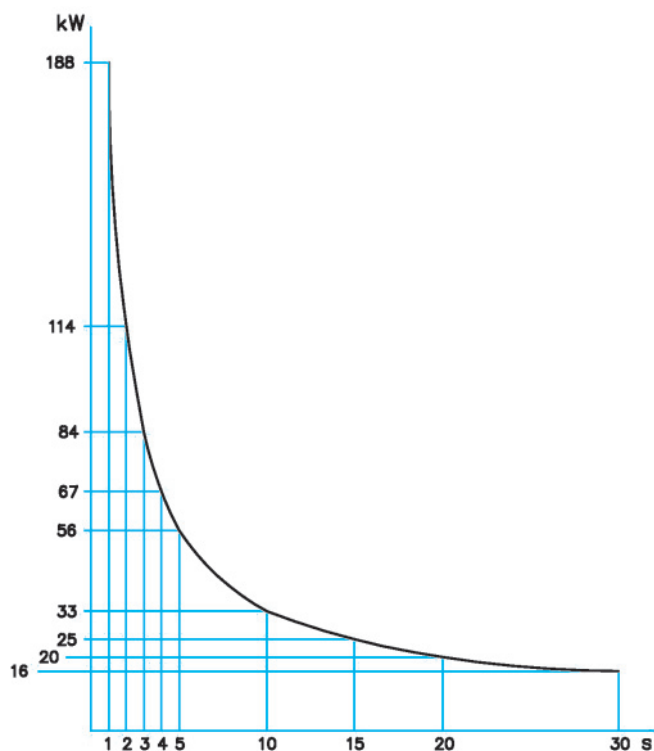


DIAGRAMMA CHART



Dissipazione
di calore
per frenatura
di emergenza

Thermal capacity
for emergency stop

TECHNICAL DATA

Braking force F:

F3-ID 14868 N at 100 bar

Dynamic torque
= $F \cdot (\text{disc radius in m} - 0.033) = \text{Nm}$

Max pressure: 100 bar

Max total wear: 12 mm

Thickness of new linings: 11 mm

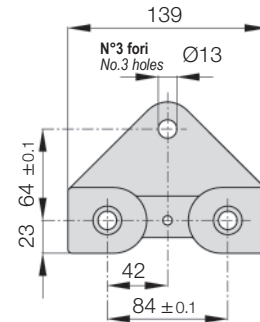
Continuous thermal capacity
Qc: 3.4 kW

Hydraulic fluid:

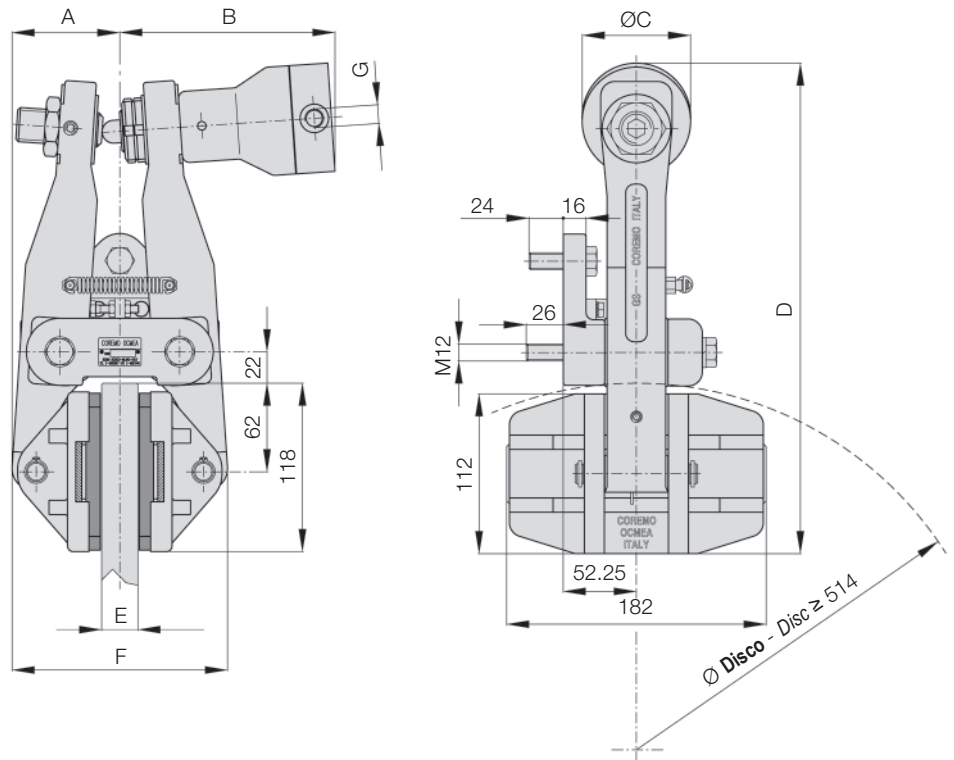
Mineral oil based SAE/ISO 46

Total oil displacement for 2 mm
movement of each pad: 0.008 dm³

G3-ID



Vista base di montaggio
View on caliper base



DIMENSIONI DIMENSIONS

TIPO SIZE	Cod. Prodotto Product Number	A	B	ØC	D	E	F	G	Volume olio Oil Volume dm ³	Peso Weight kg
G3-ID	A2169	75.5	156	76	344	25.4	151	1/8"gas	0.025	17.2
	A2854	85	163.5	76	343	40	165.5	1/8"gas	0.025	17.2

Attenzione: La coppia iniziale può essere dal 30% al 50% in meno rispetto al valore nominale, fino all'assestamento del ferodo sul disco.
Warning: The initial torque on new units can be 30% to 50% less than the catalogue value until the friction facing and friction disc are lapped or worn in.

DATI TECNICI

Forza tangenziale F:

G3-ID 14868 N a 100 bar

Coppia dinamica
= $F \cdot (\text{raggio del disco in m} - 0.062) = \text{Nm}$

Pressione max: 100 bar

Usura max totale: 10 mm

Spessore del ferodo nuovo: 8 mm

Dissipazione del calore in continuo

Qc: 14 kW

Tipo di olio:

olio a base minerale SAE/ISO 46

Volume olio per uno spostamento
di 2 mm per ciascun ferodo: 0.008 dm³

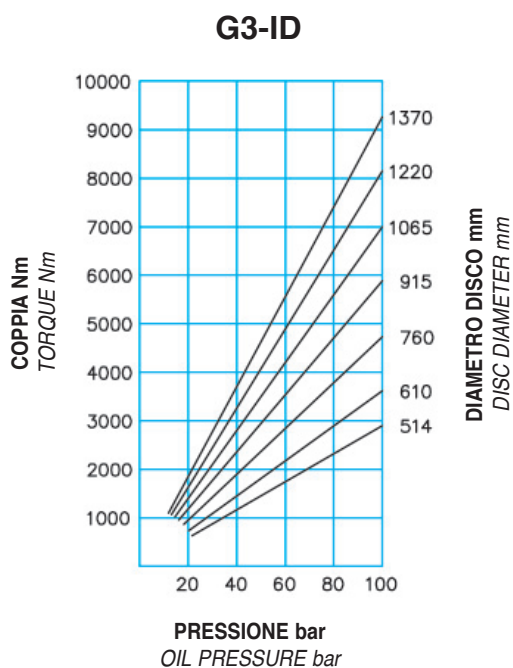
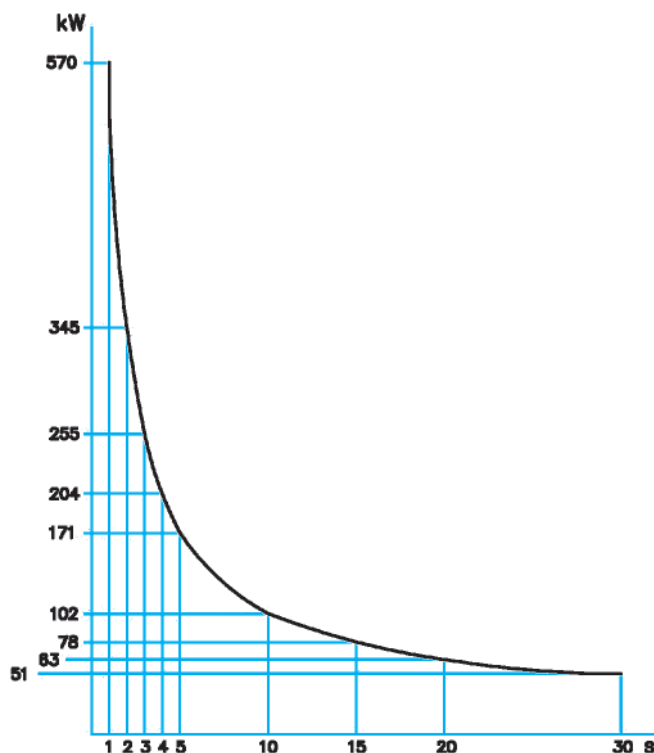


DIAGRAMMA CHART



Dissipazione
di calore
per frenatura
di emergenza

Thermal capacity
for emergency stop

TECHNICAL DATA

Braking force F:

G3-ID 14868 N at 100 bar

Dynamic torque
= $F \cdot (\text{disc radius in m} - 0.062) = \text{Nm}$

Max pressure: 100 bar

Max total wear: 10 mm

Thickness of new lining: 8 mm

Continuous thermal capacity

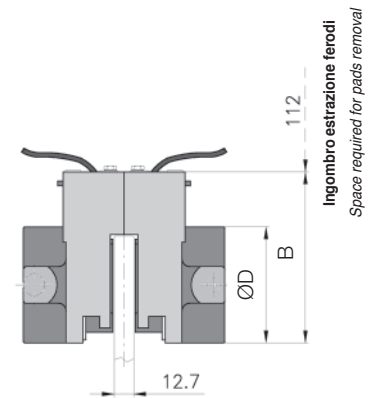
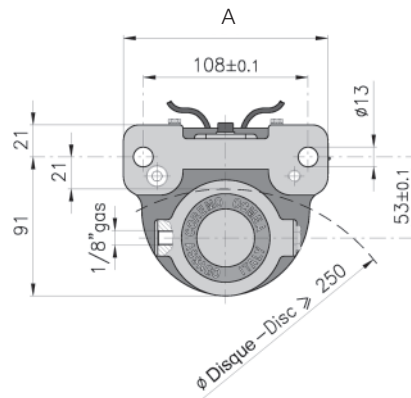
Qc: 14 kW

Hydraulic fluid:

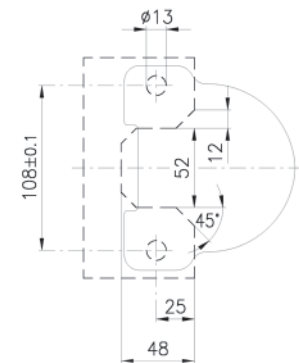
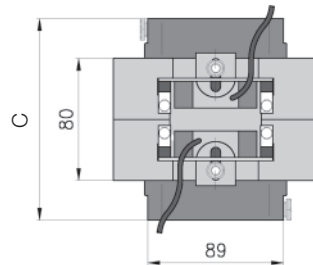
Mineral oil based SAE/ISO 46

Total oil displacement for 2 mm
movement of each pad: 0.008 dm³

ID 800



Dimensioni della base di montaggio
Caliper base dimensions



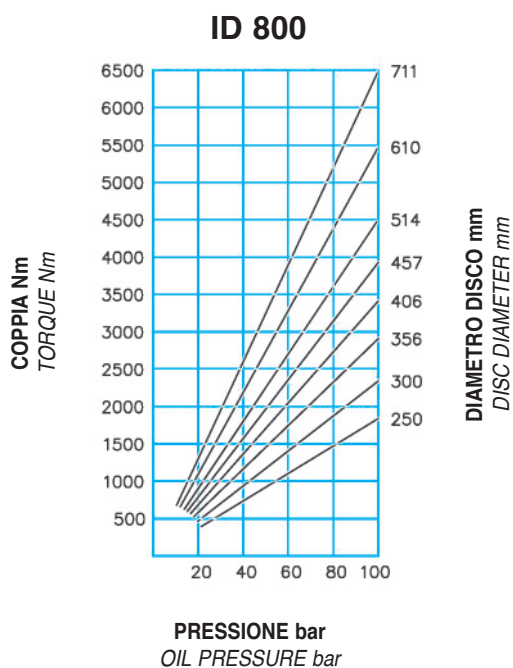
Per i dischi con spessore > 12.7 mm interporre tra i due corpi un distanziale = spessore disco - 12.7 mm
With disc having thickness > than 12.7 mm insert a spacer = disc thickness - 12.7 mm, in between two halves

DIMENSIONI DIMENSIONS

TIPO TYPE	Codice prodotto Product Number	A	B	C	ØD	Volume olio Oil Volume dm ³	Peso Weight kg
ID 800	A3668	134	112	132	89	0.045	6.5

Attenzione: La coppia iniziale può essere dal 30% al 50% in meno rispetto al valore nominale, fino all'assestamento del ferodo sul disco.
Warning: The initial torque on new units can be 30% to 50% less than the catalogue value until the friction facing and friction disc are lapped or worn in.

DATI TECNICI



Forza tangenziale F:

ID 800 20200 N a 100 bar

Coppia dinamica

= $F \cdot (\text{raggio del disco in m} - 0.034) = \text{Nm}$

Pressione max: 100 bar

Usura max totale: 10 mm

Spessore del ferodo nuovo: 17.5 mm

Dissipazione del calore in continuo

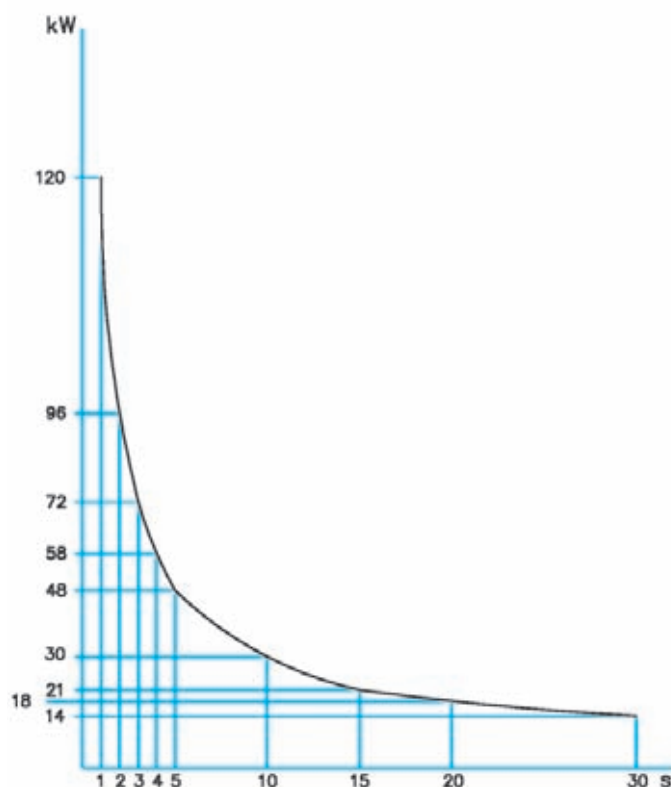
Qc: 2.5 kW

Tipo di olio:

olio a base minerale SAE/ISO 46

Volume olio per uno spostamento di 2 mm per ciascun ferodo: 0.01 dm³

DIAGRAMMA CHART



TECHNICAL DATA

Braking force F:

ID 800 20200 N at 100 bar

Dynamic torque:

$F \cdot (\text{disc radius in m} - 0.034) = \text{Nm}$

Max pressure: 100 bar

Max total wear: 10 mm

Thickness of new lining: 17.5 mm

Continuous thermal capacity

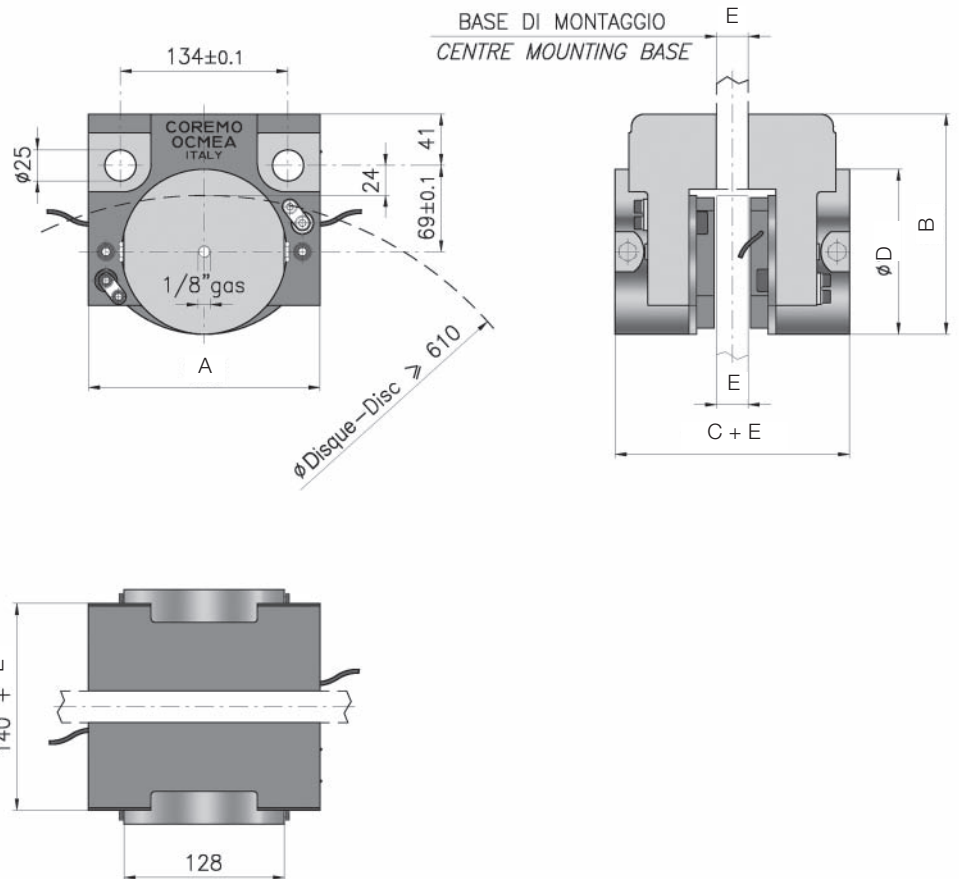
Qc: 2.5 kW

Hydraulic fluid:

Mineral oil based SAE/ISO 46

Total oil displacement for 2 mm movement of each pad: 0.01 dm³

ID 900



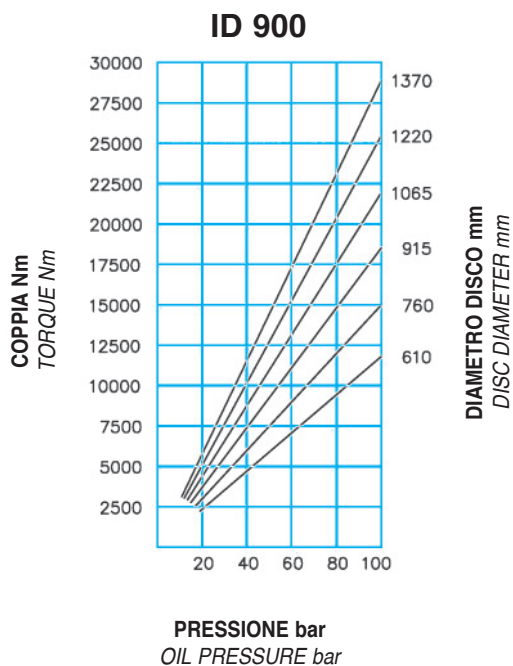
Lo spessore del supporto centrale deve essere uguale allo spessore del disco
The thickness of center mounting bracket must be same as disc thickness

DIMENSIONI DIMENSIONS

TIPO TYPE	Codice prodotto Product Number	A	B	C	ϕD	Volume olio Oil Volume dm ³	Peso Weight kg
ID 900	A2213	185	176	162	132	0.2	26

Attenzione: La coppia iniziale può essere dal 30% al 50% in meno rispetto al valore nominale, fino all'assestamento del ferodo sul disco.
Warning: The initial torque on new units can be 30% to 50% less than the catalogue value until the friction facing and friction disc are lapped or worn in.

DATI TECNICI



Forza tangenziale F:

ID 900 45500 N a 100 bar

Coppia dinamica
= $F \cdot (\text{raggio del disco in m} - 0.054) = \text{Nm}$

Pressione max: 100 bar

Usura max totale: 16 mm

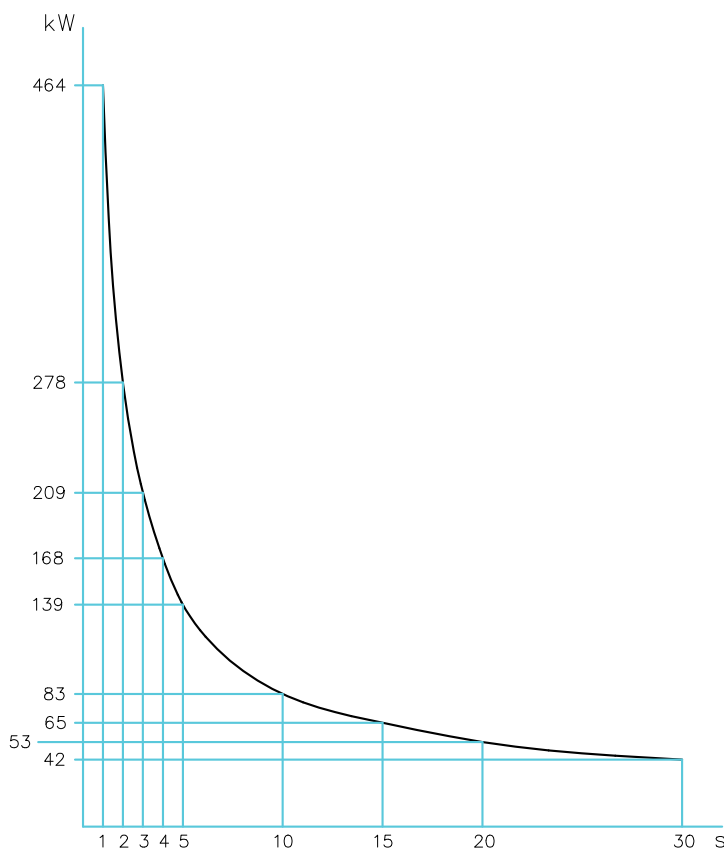
Spessore del ferodo nuovo: 14 mm

Dissipazione del calore in continuo
Qc: 10 kW

Tipo di olio:
olio a base minerale SAE/ISO 46

Volume olio per uno spostamento
di 2 mm per ciascun ferodo: 0.044 dm³

DIAGRAMMA CHART



TECHNICAL DATA

Braking force F:

ID 900 45500 N at 100 bar

Dynamic torque
= $F \cdot (\text{disc radius in m} - 0.054) = \text{Nm}$

Max pressure: 100 bar

Max total wear: 16 mm

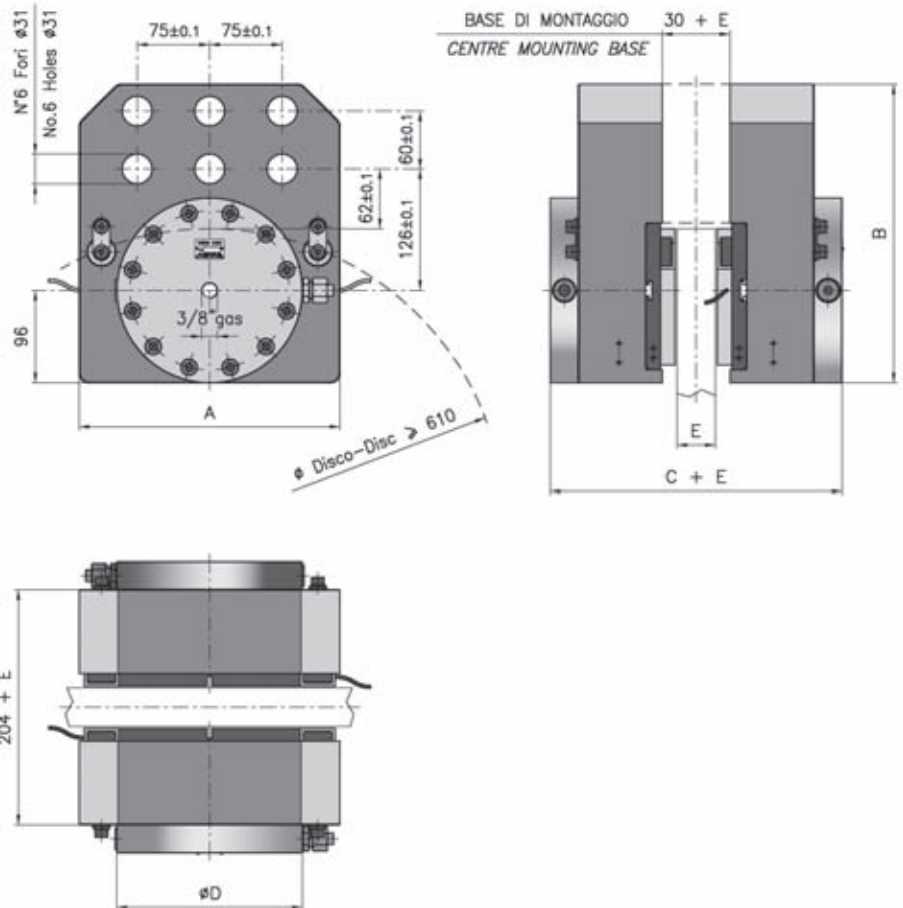
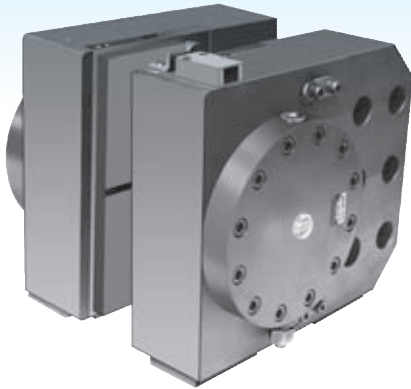
Thickness of new lining: 14 mm

Continuous thermal capacity
Qc: 10 kW

Hydraulic fluid:
Mineral oil based SAE/ISO 46

Total oil displacement for 2 mm
movement of each pad: 0.044 dm³

ID 2000



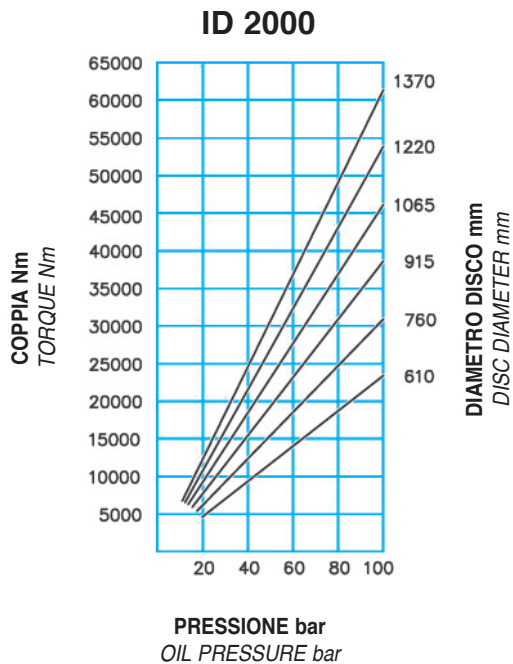
Lo spessore del supporto centrale deve essere uguale allo spessore del disco + 30 mm
 The thickness of center mounting bracket must be same as disc thickness + 30 mm

DIMENSIONI DIMENSIONS

TIPO TYPE	Codice prodotto Product Number	A	B	C	ØD	Volume olio Oil Volume dm ³	Peso Weight kg
ID 2000	A3087	270	310	262	192	0.65	114

Attenzione: La coppia iniziale può essere dal 30% al 50% in meno rispetto al valore nominale, fino all'assestamento del ferodo sul disco.
Warning: The initial torque on new units can be 30% to 50% less than the catalogue value until the friction facing and friction disc are lapped or worn in.

DATI TECNICI



Forza tangenziale F:

ID 2000 100000 N a 100 bar

Coppia dinamica
= $F \cdot (\text{raggio del disco in m} - 0.071) = \text{Nm}$

Pressione max: 100 bar

Usura max totale: 18 mm

Spessore del ferodo nuovo: 15 mm

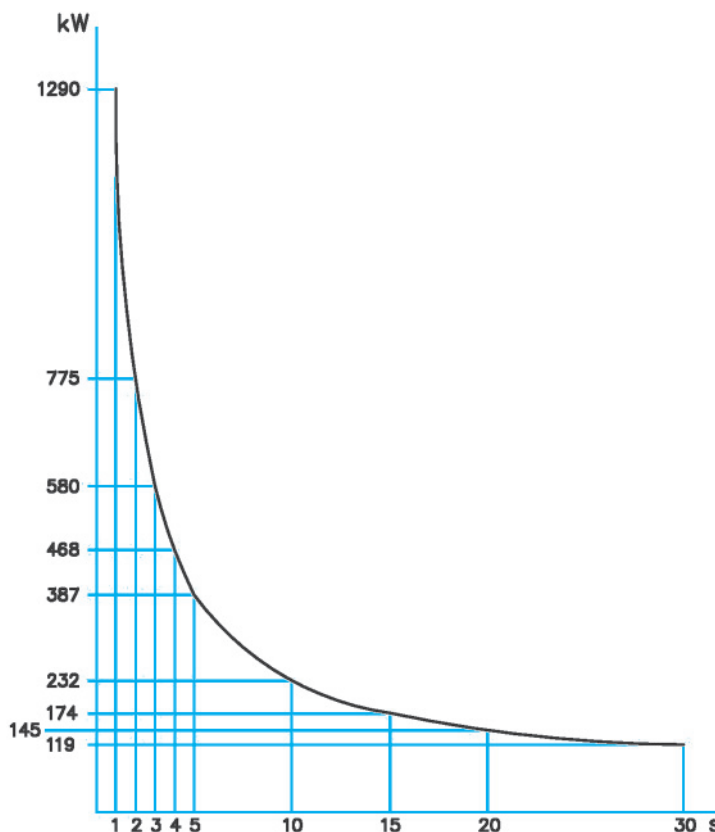
Dissipazione del calore in continuo
Qc: 29 kW

Tipo di olio:

olio a base minerale SAE/ISO 46

Volume olio per uno spostamento
di 2 mm per ciascun ferodo: 0.054 dm³

DIAGRAMMA CHART



Dissipazione
di calore
per frenatura
di emergenza

Thermal capacity
for emergency stop

TECHNICAL DATA

Braking force F:

ID 2000 100000 N at 100 bar

Dynamic torque

= $F \cdot (\text{disc radius in m} - 0.071) = \text{Nm}$

Max pressure: 100 bar

Max total wear: 18 mm

Thickness of new lining: 15 mm

Continuous thermal capacity

Qc: 29 kW

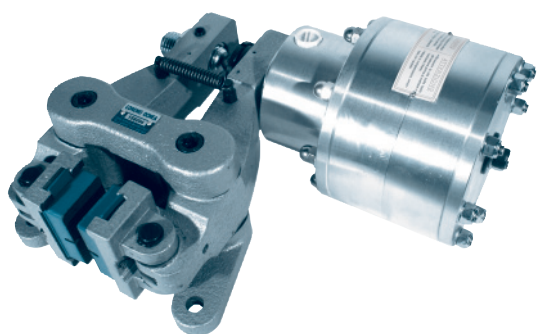
Hydraulic fluid:

Mineral oil based SAE/ISO 46

Total oil displacement for 2 mm
movement of each pad: 0.054 dm³



IDRAULICI Negativi



HYDRAULIC *Failsafe brakes*

**Per poter rispondere
in modo efficace
alle normative di sicurezza,
abbiamo previsto
una gamma di freni a molle
a comando idraulico.**

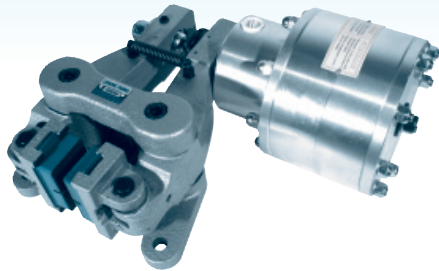
*To reply properly to safety laws,
our spring applied - hydraulically released
brakes range is available.*

Spring applied hydraulically released

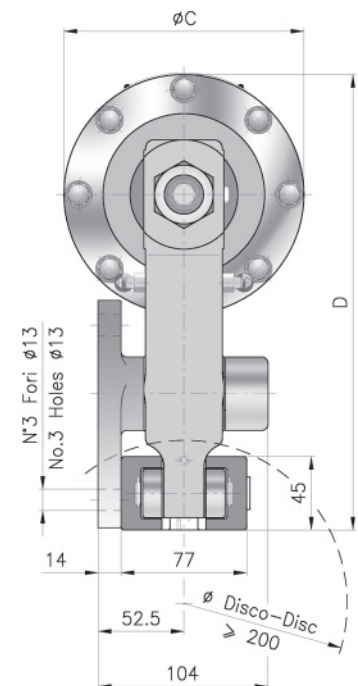
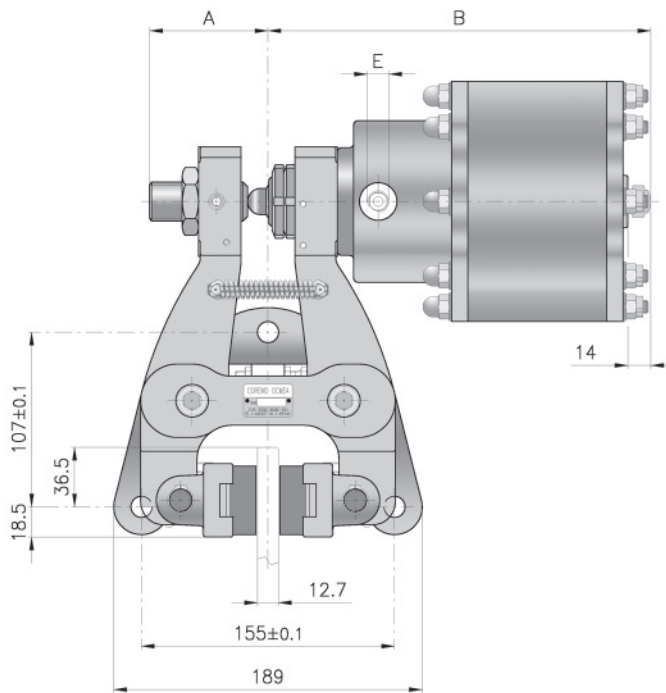
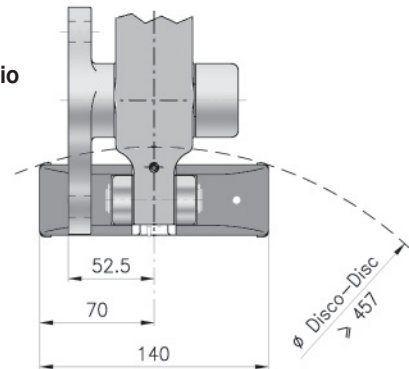
AN-ID

Disponibile anche per disco spessore 25.4 mm.

Available also for disc thickness 25.4 mm.



Versione pattino doppio
Double pad version



DIMENSIONI DIMENSIONS

TIPO SIZE	Codici Prodotto Product Number		A	B	ØC	D	E	Volume olio Oil Volume dm ³	Peso Weight kg
	S.P.	S.U.							
A2N-ID	A3306	A3308	72.5	234.5	147	279	1/4"gas	0.08	15.2
A3N-ID	A3314	A3316	72.5	234.5	147	279	1/4"gas	0.08	17.5
<p>S.P. = Produzione Standard / Standard Production S.U. = Con segnalatore di usura / With Wear Indicator</p>									

Attenzione: La coppia iniziale può essere dal 30% al 50% in meno rispetto al valore nominale, fino all'assestamento del ferodo sul disco.
Warning: The initial torque on new units can be 30% to 50% less than the catalogue value until the friction facing and friction disc are lapped or worn in.

DATI TECNICI

Forza tangenziale F:

A2N-ID 5480 N
A3N-ID 10970 N

Coppia dinamica
= $F \cdot (\text{raggio del disco in m} - 0.03) = Nm$

Usura max totale: 16 mm
Spessore del ferodo nuovo: 16 mm

Dissipazione del calore in continuo
Qc: 1.7 kW

Dissipazione di calore in continuo
con pattino doppio Qc: 2.7 kW

Pressione minima di apertura: 50 bar
Pressione max: 100 bar

I valori di coppia indicati sono ottenuti con n. 4 molle per 2N-ID, n. 8 molle per 3N-ID. Coppie proporzionalmente inferiori possono ottenere con n. 2 molle per 2N-ID, n. 6-4-2 molle per 3N-ID. Il grafico rappresenta l'andamento della coppia per ogni millimetro di usura dei ferodi.

Per ripristinare il valore nominale della coppia intervenire sul sistema di regolazione.

Tipo di olio:

olio a base minerale SAE/ISO 46
Volume olio per uno spostamento di 2 mm per ciascun ferodo: 0.018 dm³

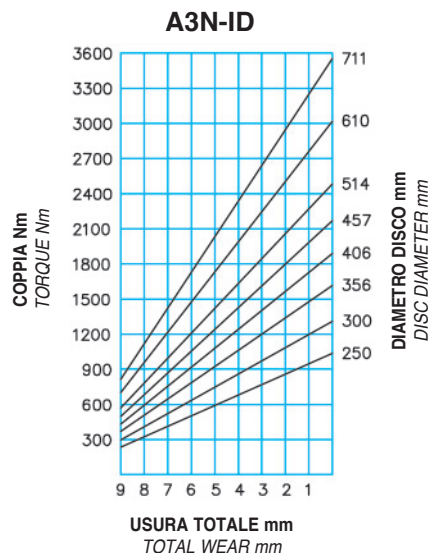
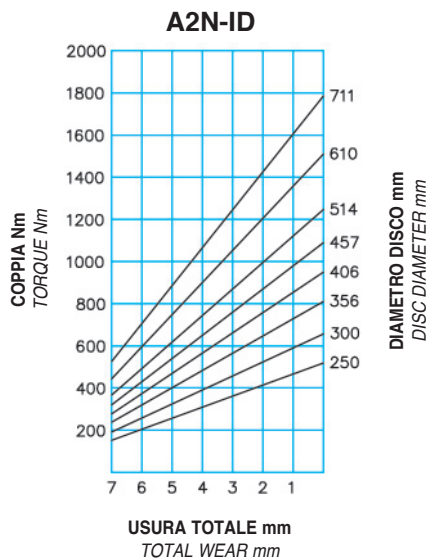
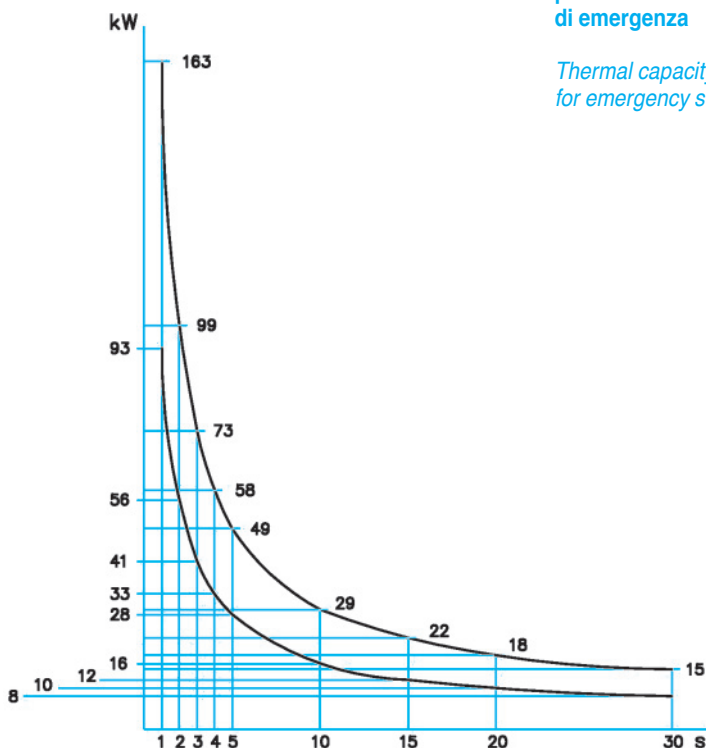


DIAGRAMMA CHART

Dissipazione di calore per frenatura di emergenza

Thermal capacity for emergency stop



TECHNICAL DATA

Braking force F:

A2N-ID 5480 N
A3N-ID 10970 N

Dynamic torque
= $F \cdot (\text{disc radius in m} - 0.03) = Nm$

Max total wear: 16 mm

Thickness of new lining: 16 mm

Continuous thermal capacity
Qc: 1.7 kW

Continuous thermal capacity for double pad version Qc: 2.7 kW

Minimum release pressure: 50 bar
Max pressure: 100 bar

The torque values specified are obtained with n. 4 springs for 2N-ID, n. 8 springs for 3N-ID.

Torque proportionally less are achievable with n. 2 springs for 2N-ID, n. 6-4-2 springs for 3N-ID.

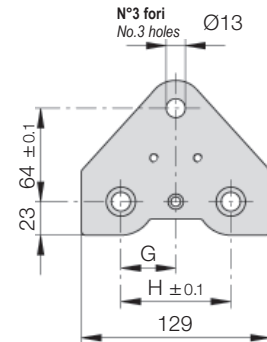
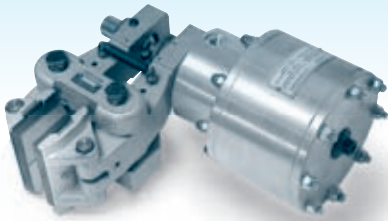
The diagram shows the torque variation for each millimeter of linings wear.

Adjust according to ensure the correct torque value is achieved

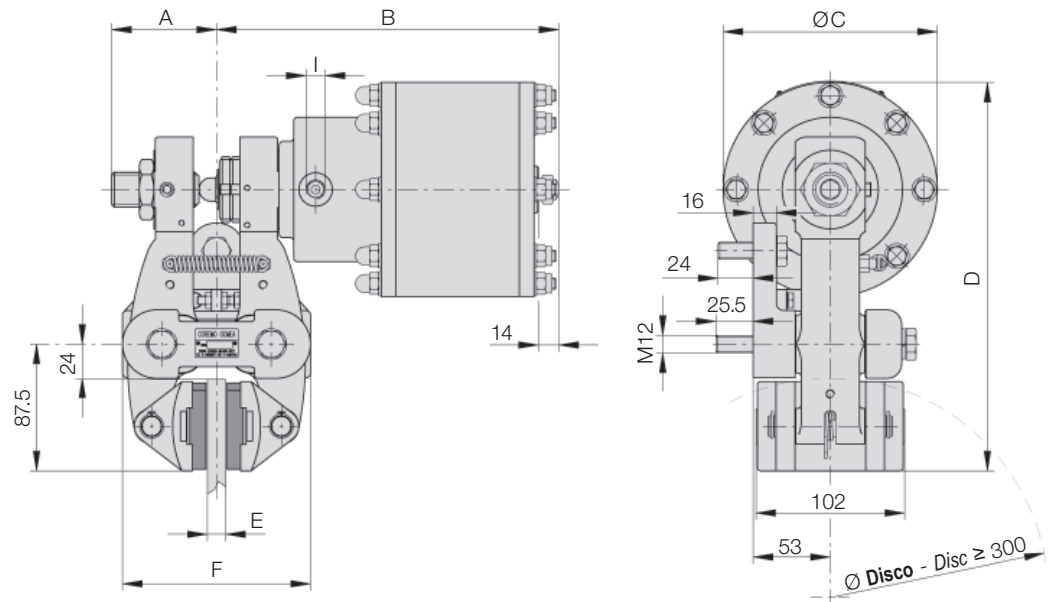
Hydraulic fluid:

Mineral oil based SAE/ISO 46
Total oil displacement for 2 mm movement of each pad: 0.018 dm³

DN-ID



Vista base di montaggio
View on caliper base



DIMENSIONI DIMENSIONS

TIPO SIZE	Cod. Prodotto Product Number	A	B	ØC	D	E	F	G	H	I	Volume olio Oil Volume dm ³	Peso Weight kg
D2N-ID	A2622	72	235	147	267	12.7	129	37.5	75	1/4" gas	0.08	13.8
	A2630	71.5	235.5	147	270	25.4	132	42	84	1/4" gas	0.08	13.8
	A2638	83	244	147	267	30	140	37.5	75	1/4" gas	0.08	13.8
	A2646	78.5	248.5	147	267	40	149	42	84	1/4" gas	0.08	13.8
D3N-ID	A2654	72	235	147	267	12.7	129	37.5	75	1/4" gas	0.08	16.1
	A2662	71.5	236.5	147	273	25.4	132	42	84	1/4" gas	0.08	16.1
	A2670	83	244	147	267	30	140	37.5	75	1/4" gas	0.08	16.1
	A2678	78.5	248.5	147	267	40	149	42	84	1/4" gas	0.08	16.1

Attenzione: La coppia iniziale può essere dal 30% al 50% in meno rispetto al valore nominale, fino all'assestamento del ferodo sul disco.
Warning: The initial torque on new units can be 30% to 50% less than the catalogue value until the friction facing and friction disc are lapped or worn in.

DATI TECNICI

Forza tangenziale F:

D2N-ID 5200 N
D3N-ID 10400 N

Coppia dinamica
= $F \cdot (\text{raggio del disco in m} - 0.033) = \text{Nm}$

Usura max totale: 12 mm
Spessore del ferodo nuovo: 11 mm
Dissipazione del calore in continuo
Qc: 3.4 kW

Pressione minima di apertura: 50 bar
Pressione max: 100 bar

I valori di coppia indicati sono ottenuti
con n. 4 molle per 2N-ID,
n. 8 molle per 3N-ID.

Coppie proporzionalmente inferiori
si possono ottenere con n. 2 molle per
2N-ID, n. 6-4-2 molle per 3N-ID.

Il grafico rappresenta l'andamento
della coppia per ogni millimetro
di usura dei ferodi.

Per ripristinare il valore nominale
della coppia intervenire sul sistema
di regolazione.

Tipo di olio:

olio a base minerale SAE/ISO 46

Volume olio per uno spostamento

di 2 mm per ciascun ferodo: 0.017 dm³

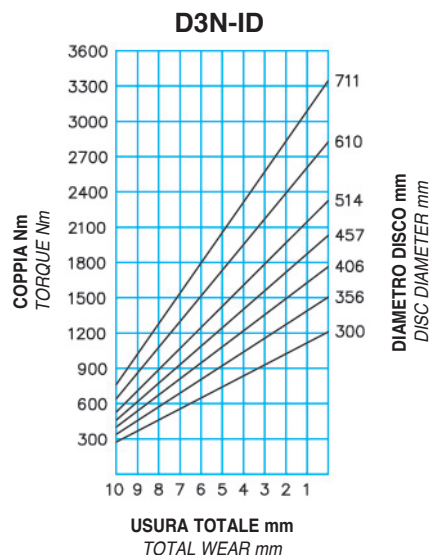
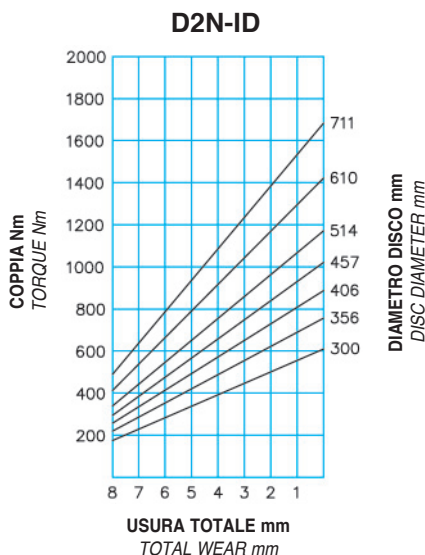
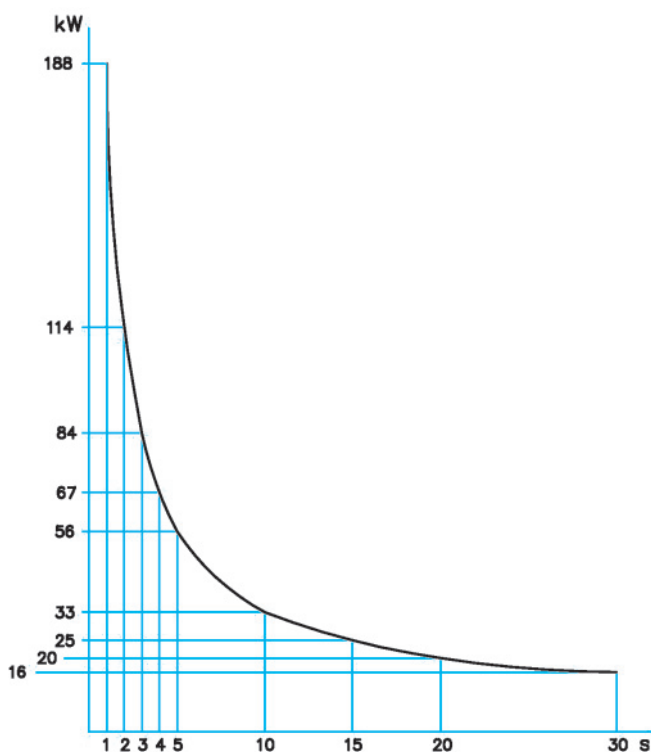


DIAGRAMMA CHART



Dissipazione
di calore
per frenatura
di emergenza

Thermal capacity
for emergency stop

TECHNICAL DATA

Braking force F:

D2N-ID 5200 N
D3N-ID 10400 N

Dynamic torque
= $F \cdot (\text{disc radius in m} - 0.033) = \text{Nm}$

Max total wear: 12 mm

Thickness of new lining: 11 mm

Continuous thermal capacity

Qc: 3.4kW

Minimum release pressure: 50 bar

Max pressure: 100 bar

The torque values specified
are obtained with n. 4 springs for 2N-ID,
n. 8 springs for 3N-ID.

Torque proportionally less
are achievable with n. 2 springs for 2N-ID,
n. 6-4-2 springs for 3N-ID.

The diagram shows the torque variation
for each millimeter of linings wear.

Adjust according to ensure the correct
torque value is achieved.

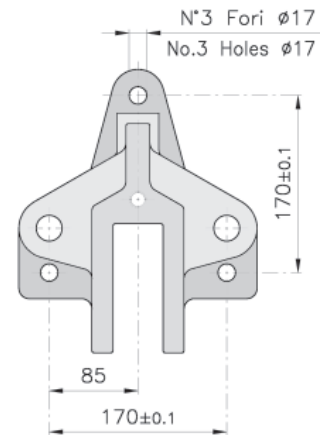
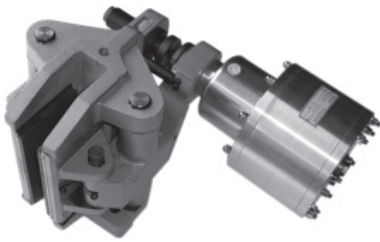
Hydraulic fluid:

Mineral oil based SAE/ISO 46

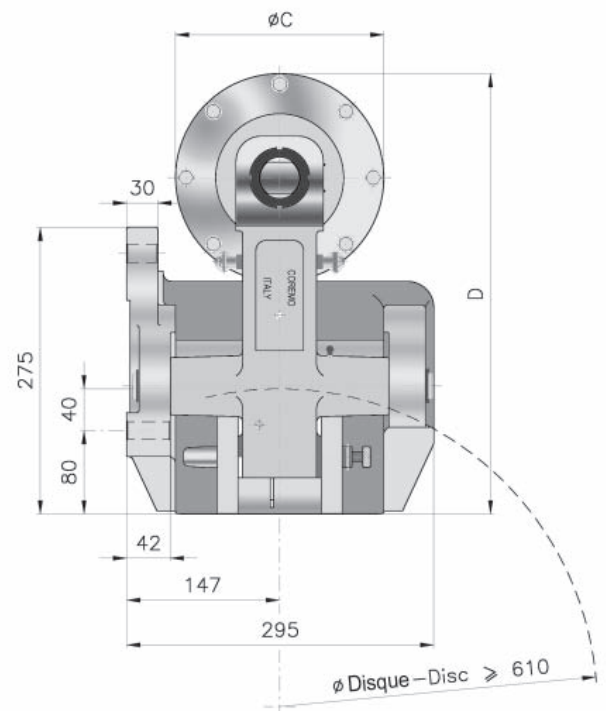
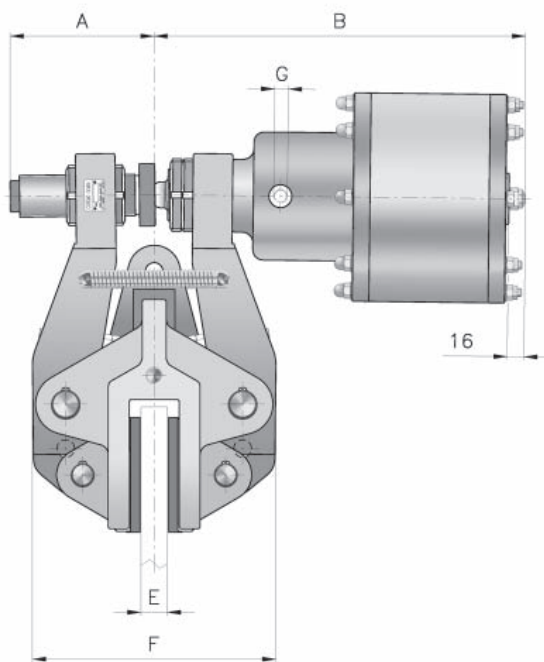
Total oil displacement for 2 mm

movement of each pad: 0.017 dm³

E4N-ID



Vista base di montaggio
View on caliper base



DIMENSIONI DIMENSIONS

TIPO SIZE	Cod. Prodotto Product Number	A	B	ØC	D	E	F	G	Volume olio Oil Volume dm ³	Peso Weight kg
E4N-ID	A3011	138	357	200	423	25.4	234	1/4"gas	0.2	74
	A3048	140.5	354.5	200	423	40	233	1/4"gas	0.2	74

Attenzione: La coppia iniziale può essere dal 30% al 50% in meno rispetto al valore nominale, fino all'assestamento del ferodo sul disco.
Warning: The initial torque on new units can be 30% to 50% less than the catalogue value until the friction facing and friction disc are lapped or worn in.

DATI TECNICI

Forza tangenziale F:

E4N-ID 42000 N

Coppia dinamica
 $= F \cdot (\text{raggio del disco in m} - 0.065) = \text{Nm}$

Usura max totale: 12 mm

Spessore del ferodo nuovo: 13 mm

Dissipazione del calore in continuo
Qc: 20 kW

Pressione minima di apertura: 60 bar

Pressione max: 100 bar

I valori di coppia indicati sono ottenuti con n. 16 molle.

Coppie proporzionalmente inferiori si possono ottenere con n. 14 - 12 - 10 molle. Il grafico rappresenta l'andamento della coppia per ogni millimetro di usura dei ferodi.

Per ripristinare il valore nominale della coppia intervenire sul sistema di regolazione.

Tipo di olio:

olio a base minerale SAE/ISO 46

Volume olio per uno spostamento di 2 mm per ciascun ferodo: 0.054 dm³

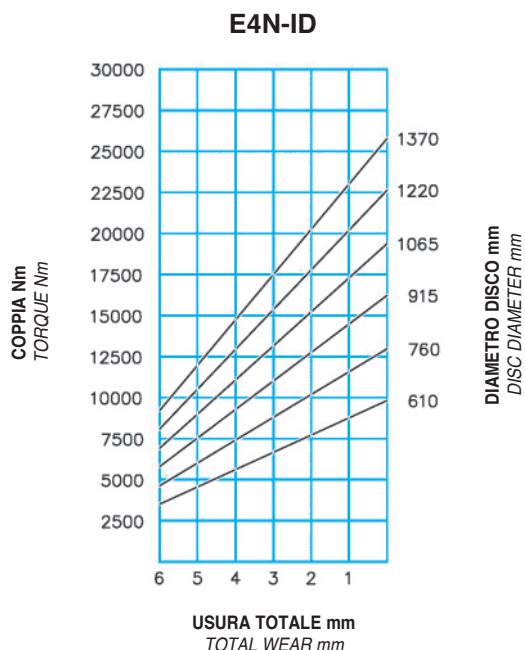
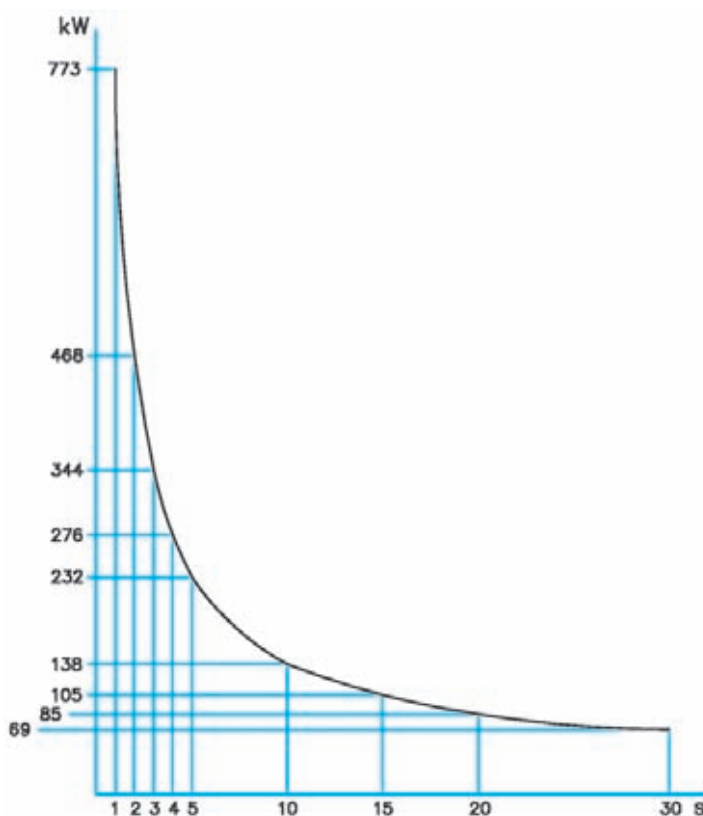


DIAGRAMMA CHART



Dissipazione di calore per frenatura di emergenza

Thermal capacity for emergency stop

TECHNICAL DATA

Braking force F:

E4N-ID 42000 N

Dynamic torque
 $= F \cdot (\text{disc radius in m} - 0.065) = \text{Nm}$

Max total wear: 12 mm

Thickness of new lining: 13 mm

Continuous thermal capacity
Qc: 20 kW

Minimum release pressure: 60 bar

Max pressure: 100 bar

The torque values specified are obtained with n. 16 springs.

Torque proportionally less are achievable with n. 14 - 12 - 10 springs.

The diagram shows the torque variation for each millimeter of linings wear. Adjust according to ensure the correct torque value is achieved.

Hydraulic fluid:

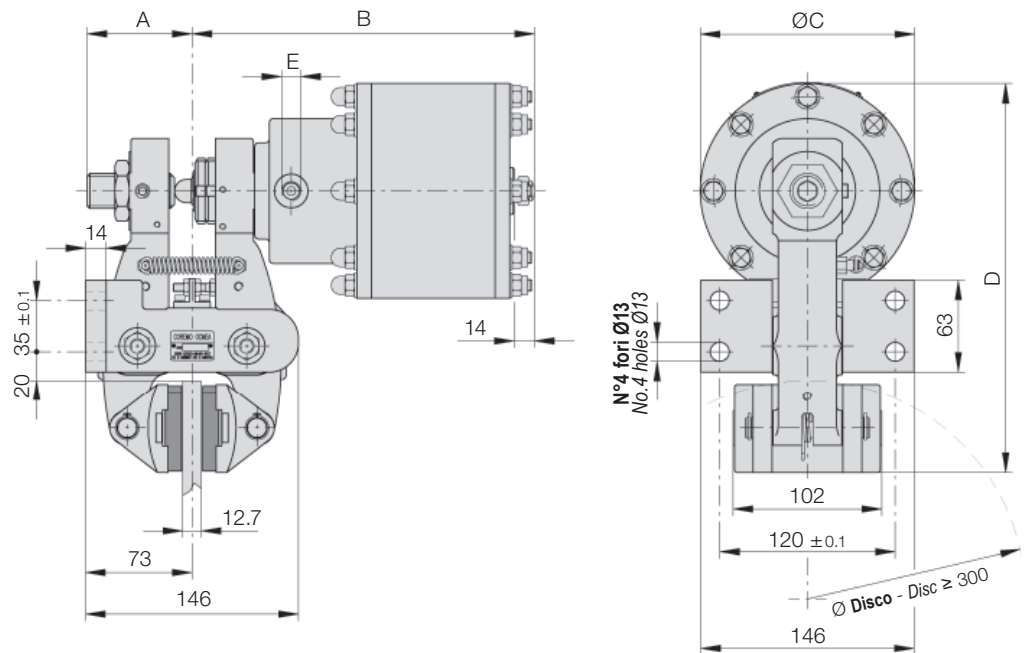
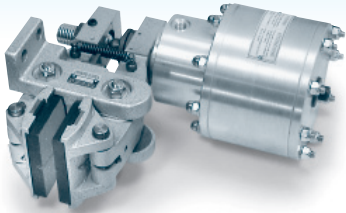
Mineral oil based SAE/ISO 46

Total oil displacement for 2 mm movement of each pad: 0.054 dm³

FN-ID

Disponibile anche per disco spessore 25.4 - 30 - 40 mm.

Available also for disc thickness 25.4 - 30 - 40 mm.



DIMENSIONI DIMENSIONS

TIPO SIZE	Cod. Prodotto Product Number	A	B	ØC	D	E	Volume olio Oil Volume dm ³	Peso Weight kg
F2N-ID	A2822	72	235	147	267	1/4"gas	0.08	13.5
F3N-ID	A2830	72	235	147	267	1/4"gas	0.08	15.8

Attenzione: La coppia iniziale può essere dal 30% al 50% in meno rispetto al valore nominale, fino all'assestamento del ferodo sul disco.
Warning: The initial torque on new units can be 30% to 50% less than the catalogue value until the friction facing and friction disc are lapped or worn in.

DATI TECNICI

Forza tangenziale F:

F2N-ID	5200 N
F3N-ID	10400 N

Coppia dinamica

$$= F \cdot (\text{raggio del disco in m} - 0.033) = \text{Nm}$$

Usura max totale: 12 mm

Spessore del ferodo nuovo: 11 mm

Dissipazione del calore in continuo
Qc: 3.4 kW

Pressione minima di apertura: 50 bar

Pressione max: 100 bar

I valori di coppia indicati sono ottenuti con n. 4 molle per 2N-ID, n. 8 molle per 3N-ID.

Coppie proporzionalmente inferiori si possono ottenere con n. 2 molle per 2N-ID, n. 6-4-2 molle per 3N-ID.

Il grafico rappresenta l'andamento della coppia per ogni millimetro di usura dei ferodi.

Per ripristinare il valore nominale della coppia intervenire sul sistema di regolazione.

Tipo di olio:

olio a base minerale SAE/ISO 46

Volume olio per uno spostamento

di 2 mm per ciascun ferodo: 0.017 dm³

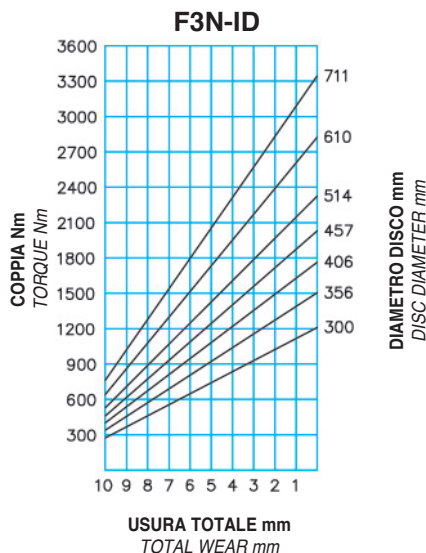
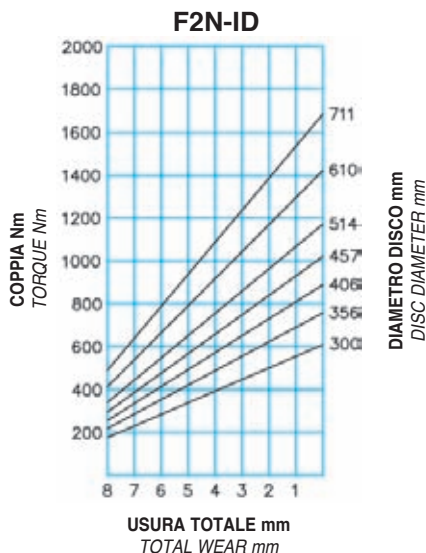
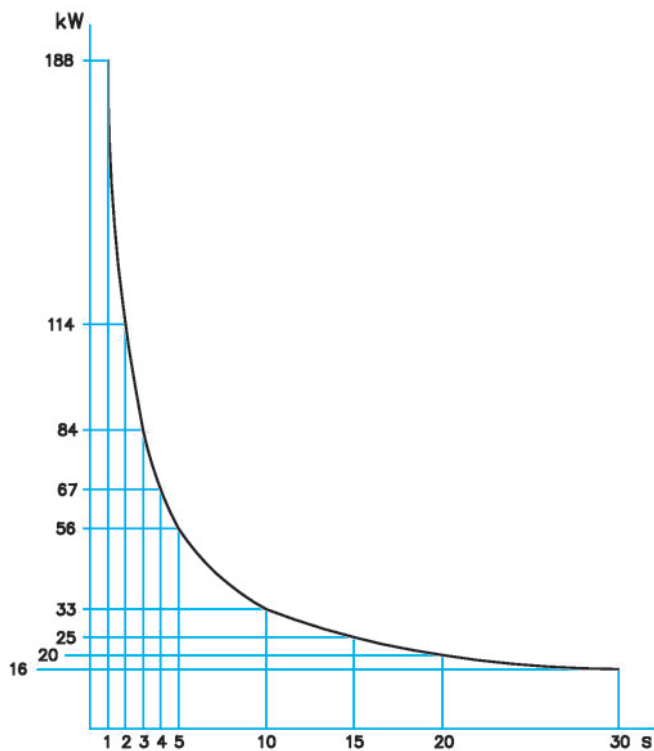


DIAGRAMMA CHART



TECHNICAL DATA

Braking force F:

F2N-ID	5200 N
F3N-ID	10400 N

Dynamic torque

$$= F \cdot (\text{disc radius in m} - 0.033) = \text{Nm}$$

Max total wear: 12 mm

Thickness of new lining: 11 mm

Continuous thermal capacity

Qc: 3.4 kW

Minimum release pressure: 50 bar

Max pressure: 100 bar

The torque values specified

are obtained with

n. 4 springs for 2N-ID,

n. 8 springs for 3N-ID.

Torque proportionally less

are achievable with

n. 2 springs for 2N-ID,

n. 6-4-2 springs for 3N-ID.

The diagram shows the torque variation

for each millimeter of linings wear.

Adjust according to ensure the correct

torque value is achieved.

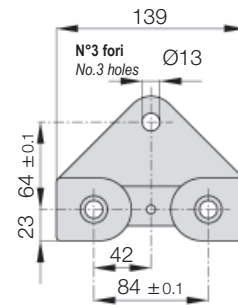
Hydraulic fluid:

Mineral oil based SAE/ISO 46

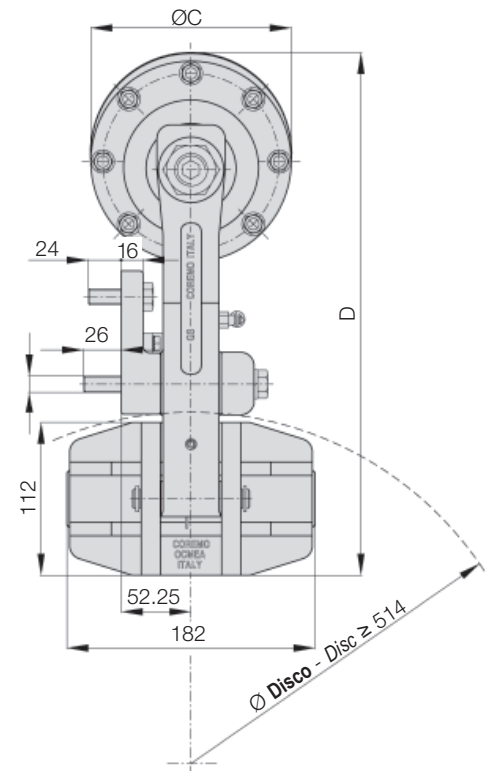
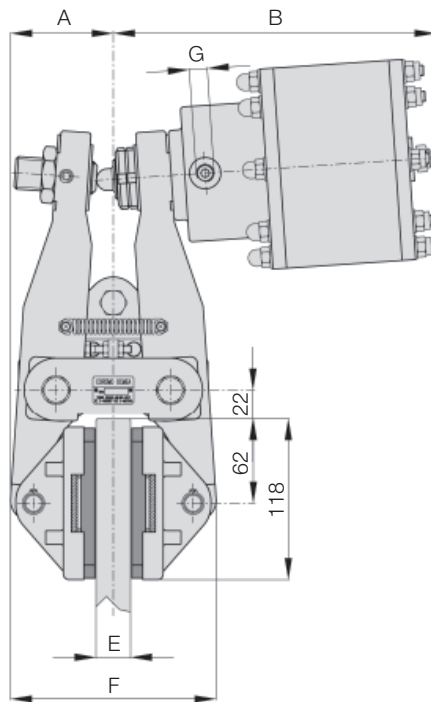
Total oil displacement for 2 mm

movement of each pad: 0.017 dm³

GN-ID



Vista base di montaggio
View on caliper base



DIMENSIONI DIMENSIONS

TIPO SIZE	Codice Prodotto Product Number	A	B	ØC	D	E	F	G	Volume olio Oil Volume dm ³	Peso Weight kg
G2N-ID	A2886	75.5	234	147	377	25.4	151	1/4"gas	0.08	19.7
	A2890	85.5	242	147	377	40	165.5	1/4"gas	0.08	19.7
G3N-ID	A2172	75.5	237	147	382	25.4	151	1/4"gas	0.08	22
	A2894	85.5	245	147	382	40	165.5	1/4"gas	0.08	22

Attenzione: La coppia iniziale può essere dal 30% al 50% in meno rispetto al valore nominale, fino all'assestamento del ferodo sul disco.
Warning: The initial torque on new units can be 30% to 50% less than the catalogue value until the friction facing and friction disc are lapped or worn in.

DATI TECNICI

Forza tangenziale F:

G2N-ID 5200 N

G3N-ID 10400 N

Coppia dinamica

= $F \cdot (\text{raggio del disco in m} - 0.062) = \text{Nm}$

Usura max totale: 10 mm

Spessore del ferodo nuovo: 8 mm

Dissipazione del calore in continuo

Qc: 14 kW

Pressione minima di apertura: 50 bar

Pressione max: 100 bar

I valori di coppia indicati sono ottenuti con n. 4 molle per 2N-ID, n. 8 molle per 3N-ID.

Coppie proporzionalmente inferiori si possono ottenere con

n. 2 molle per 2N-ID,

n. 6-4-2 molle per 3N-ID.

Il grafico rappresenta l'andamento della coppia per ogni millimetro di usura dei ferodi.

Per ripristinare il valore nominale della coppia intervenire sul sistema di regolazione.

Tipo di olio:

olio a base minerale SAE/ISO 46

Volume olio per uno spostamento

di 2 mm per ciascun ferodo: 0.017 dm³

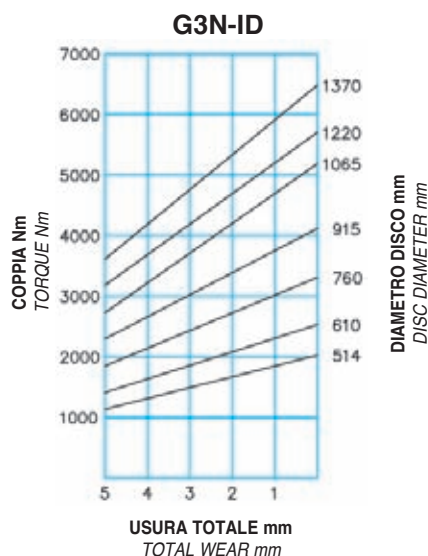
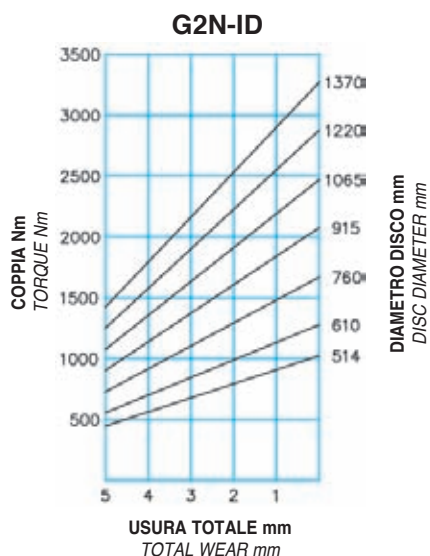
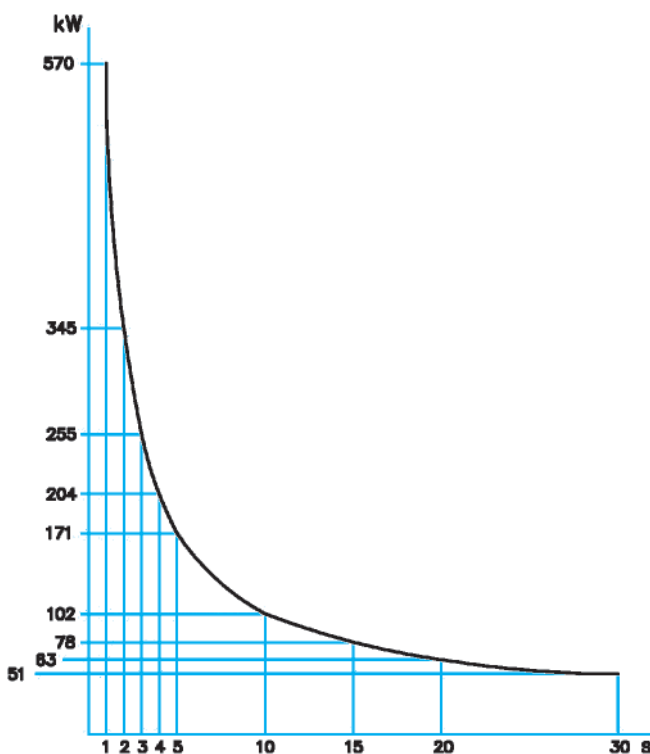


DIAGRAMMA CHART

Dissipazione di calore per frenatura di emergenza

Thermal capacity for emergency stop



TECHNICAL DATA

Braking force F:

G2N-ID 5200 N

G3N-ID 10400 N

Dynamic torque

= $F \cdot (\text{disc radius in m} - 0.062) = \text{Nm}$

Max total wear: 10 mm

Thickness of new lining: 8 mm

Continuous thermal capacity

Qc: 14 kW

Minimum release pressure: 50 bar

Max pressure: 100 bar

The torque values specified

are obtained with

n. 4 springs for 2N-ID,

n. 8 springs for 3N-ID.

Torque proportionally less

are achievable with

n. 2 springs for 2N-ID,

n. 6-4-2 springs for 3N-ID.

The diagram shows the torque variation

for each millimeter of linings wear.

Adjust according to ensure the correct

torque value is achieved.

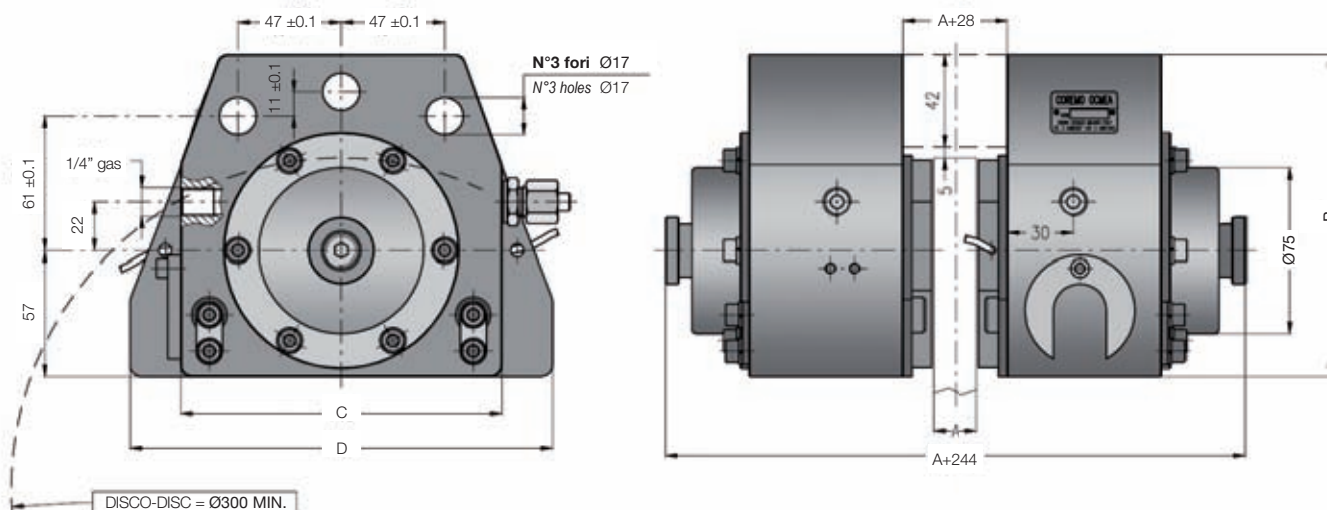
Hydraulic fluid:

Mineral oil based SAE/ISO 46

Total oil displacement for 2 mm

movement of each pad: 0.017 dm³

ID 800N



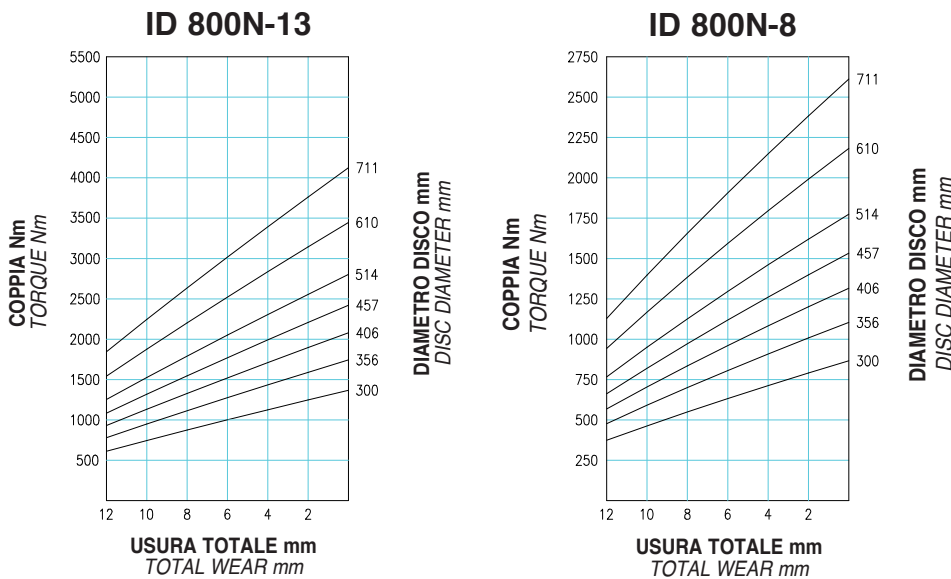
Lo spessore del supporto centrale deve essere uguale allo spessore del disco + 28 mm
 The thickness of center mounting bracket must be same as disc thickness + 28 mm

DIMENSIONI DIMENSIONS

TIPO TYPE	Codice prodotto Product Number	A	B	C	D	Volume olio Oil Volume dm ³	Peso Weight kg
ID 800N-13	A3827	Spess. disco Disc thick.	146	146	192	0.05	24.6
ID 800N-8	A3830		146	146	192	0.05	24.6

Attenzione: La coppia iniziale può essere dal 30% al 50% in meno rispetto al valore nominale, fino all'assestamento del ferodo sul disco.
Warning: The initial torque on new units can be 30% to 50% less than the catalogue value until the friction facing and friction disc are lapped or worn in.

DATI TECNICI



Forza tangenziale F:

ID 800N-13	13000 N
ID 800N-8	8000 N

Coppia dinamica
 $= F \cdot (\text{raggio del disco in m} - 0.048) = \text{Nm}$
 (ID 800N-13)

Pressione minima di apertura: 100 bar
 (ID 800N-8)

Pressione max: 200 bar

Usura max totale: 12 mm

Spessore del ferodo nuovo: 9 mm

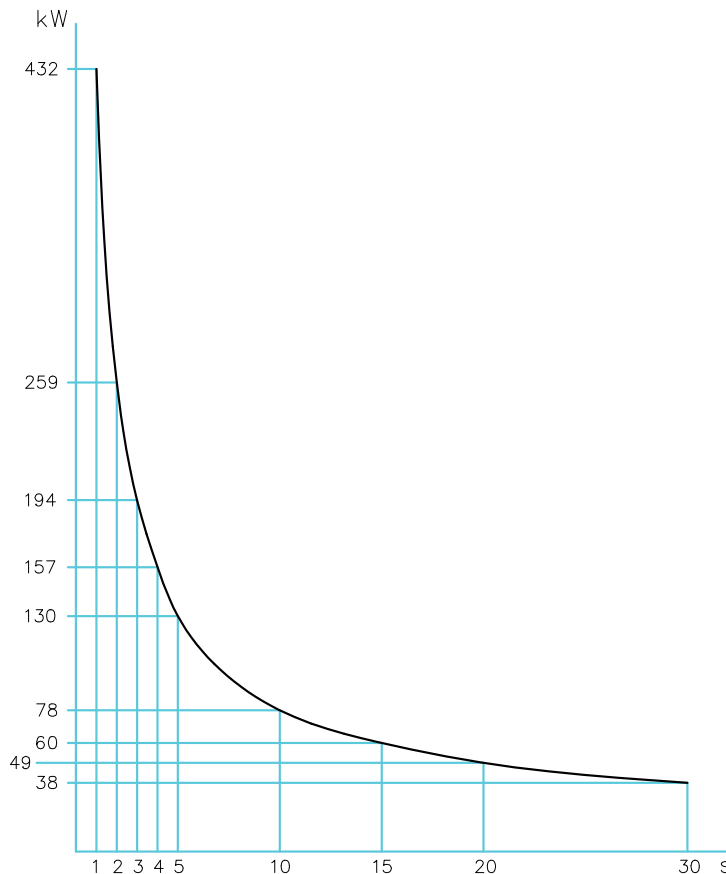
Dissipazione del calore in continuo
 $Q_c: 9.5 \text{ kW}$

Tipo di olio:

olio a base minerale SAE/ISO 46

Volume olio per uno spostamento
 di 2 mm per ciascun ferodo: 0.008 dm^3

DIAGRAMMA CHART



Dissipazione
di calore
per frenatura
di emergenza

Thermal capacity
for emergency stop

TECHNICAL DATA

Braking force F:

ID 800N-13	13000 N
ID 800N-8	8000 N

Dynamic torque:

$F \cdot (\text{disc radius in m} - 0.048) = \text{Nm}$
 (ID 800N-13)

Min. release pressure: 100 bar

(ID 800N-8)

Min. release pressure: 65 bar

Max pressure: 200 bar

Max total wear: 12 mm

Thickness of new lining: 9 mm

Continuous thermal capacity

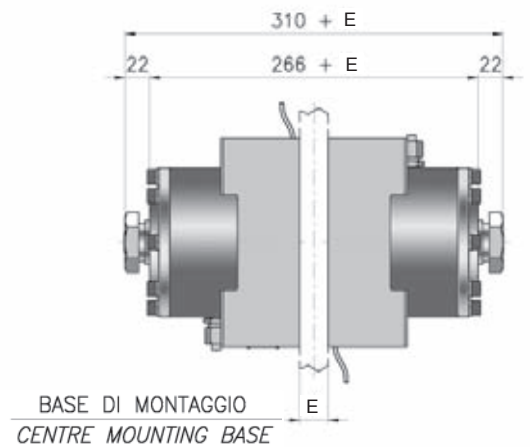
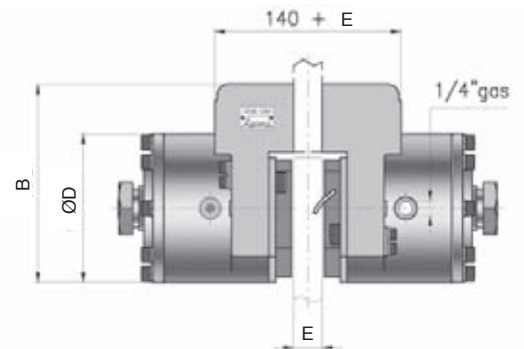
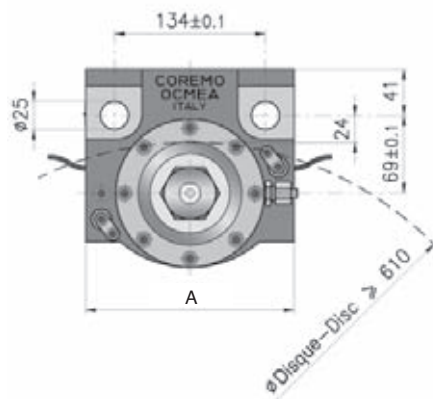
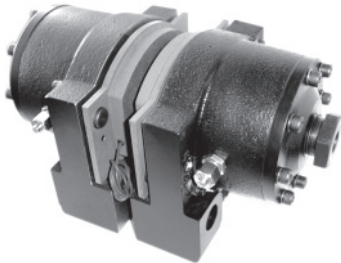
$Q_c: 9.5 \text{ kW}$

Hydraulic fluid:

Mineral oil based SAE/ISO 46

Total oil displacement for 2 mm
 movement of each pad: 0.008 dm^3

ID 900N



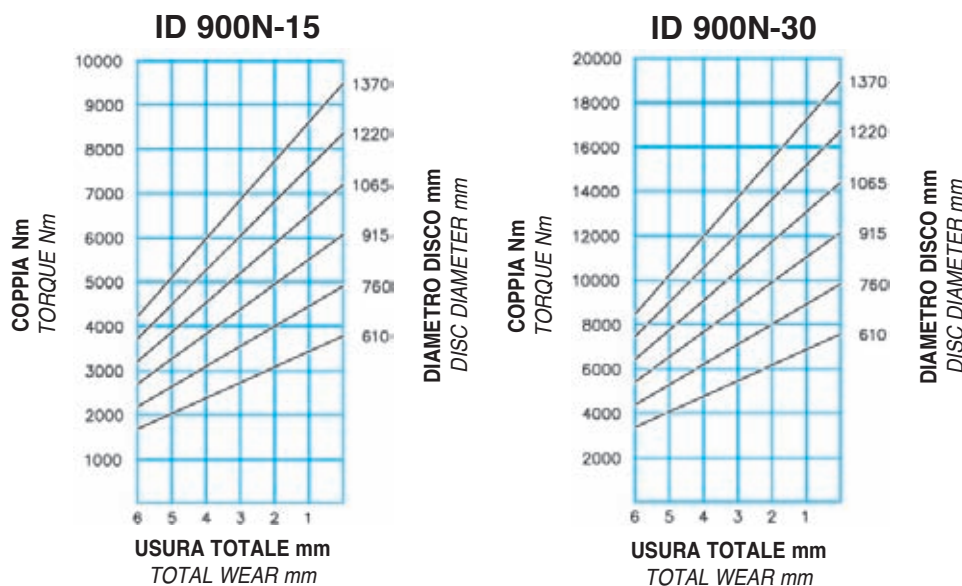
Lo spessore del supporto centrale deve essere uguale allo spessore del disco
The thickness of center mounting bracket must be same as disc thickness

DIMENSIONI DIMENSIONS

TIPO TYPE	Codice prodotto Product Number	A	B	C	ØD	Volume olio Oil Volume dm ³	Peso Weight kg
ID 900N-15	A3045	185	176	310	132	0.3	34
ID 900N-30	A3042	185	176	310	132	0.3	34

Attenzione: La coppia iniziale può essere dal 30% al 50% in meno rispetto al valore nominale, fino all'assestamento del ferodo sul disco.
Warning: The initial torque on new units can be 30% to 50% less than the catalogue value until the friction facing and friction disc are lapped or worn in.

DATI TECNICI



Forza tangenziale F:

ID 900N-15 15000 N
ID 900N-30 30000 N

Coppia dinamica
= $F \cdot (\text{raggio del disco in m} - 0.054) = \text{Nm}$
(ID 900N-15)

Pressione minima di apertura: 60 bar
(ID 900N-30)

Pressione minima di apertura: 90 bar
Pressione max: 100 bar

Usura max totale: 16 mm

Spessore del ferodo nuovo: 14 mm

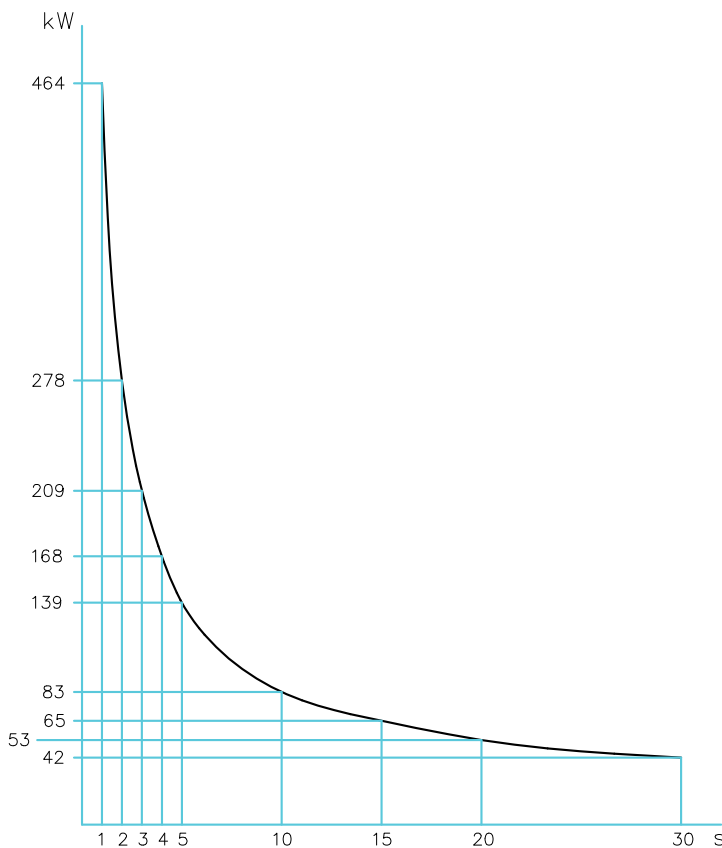
Dissipazione del calore in continuo
Qc: 10 kW

Tipo di olio:

olio a base minerale SAE/ISO 46

Volume olio per uno spostamento
di 2 mm per ciascun ferodo: 0.02 dm³

DIAGRAMMA CHART



Dissipazione
di calore
per frenatura
di emergenza

Thermal capacity
for emergency stop

TECHNICAL DATA

Braking force F:

ID 900N-15 15000 N
ID 900N-30 30000 N

Dynamic torque:

$F \cdot (\text{disc radius in m} - 0.054) = \text{Nm}$
(ID 900N-15)

Min. release pressure: 60 bar

(ID 900N-30)

Min. release pressure: 90 bar

Max pressure: 100 bar

Max total wear: 16 mm

Thickness of new lining: 14 mm

Continuous thermal capacity

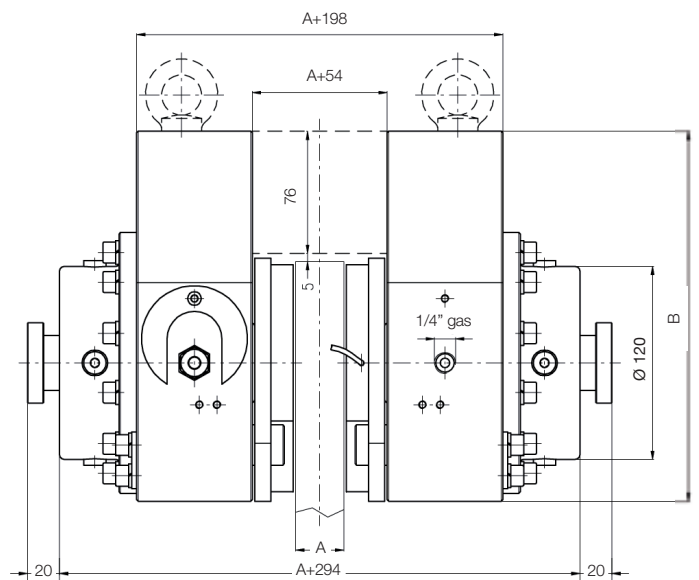
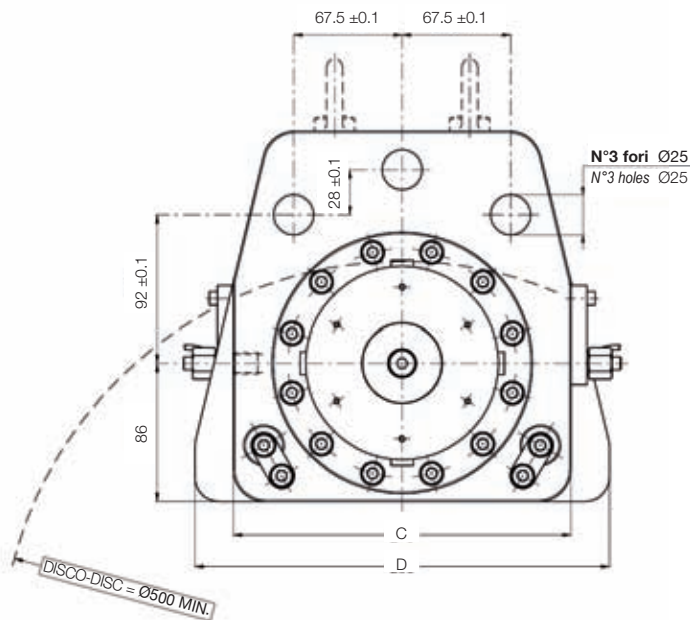
Qc: 10 kW

Hydraulic fluid:

Mineral oil based SAE/ISO 46

Total oil displacement for 2 mm
movement of each pad: 0.02 dm³

ID1500N



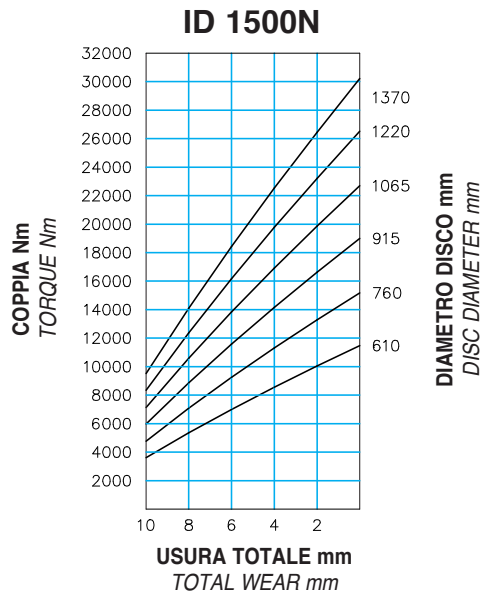
Lo spessore del supporto centrale deve essere uguale allo spessore del disco + 54 mm
The thickness of center mounting bracket must be same as disc thickness + 54 mm

DIMENSIONI DIMENSIONS

TIPO TYPE	Codice prodotto Product Number	A	B	C	D	Volume olio Oil Volume dm ³	Peso Weight kg
ID 1500N	A3955	Spess. dsco Disc thick.	230	210	258	0.15	67

Attenzione: La coppia iniziale può essere dal 30% al 50% in meno rispetto al valore nominale, fino all'assestamento del ferodo sul disco.
Warning: The initial torque on new units can be 30% to 50% less than the catalogue value until the friction facing and friction disc are lapped or worn in.

DATI TECNICI



Forza tangenziale F:

ID 1500N 50000 N

Coppia dinamica

= $F \cdot (\text{raggio del disco in m} - 0.0725) = \text{Nm}$

Pressione minima di apertura: 120 bar

Pressione max: 200 bar

Usura max totale: 18 mm

Spessore del ferodo nuovo: 14 mm

Dissipazione del calore in continuo

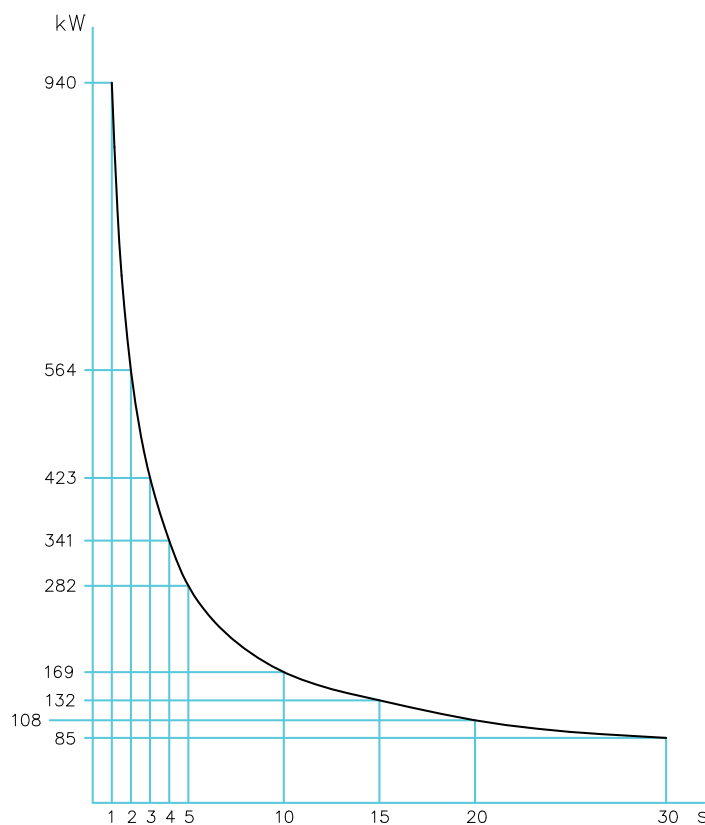
Qc: 21 kW

Tipo di olio:

olio a base minerale SAE/ISO 46

Volume olio per uno spostamento di 2 mm per ciascun ferodo: 0.025 dm³

DIAGRAMMA CHART



Dissipazione di calore per frenatura di emergenza

Thermal capacity for emergency stop

TECHNICAL DATA

Braking force F:

ID 1500N 50000 N

Dynamic torque:

$F \cdot (\text{disc radius in m} - 0.0725) = \text{Nm}$

Min. release pressure: 120 bar

Max pressure: 200 bar

Max total wear: 18 mm

Thickness of new lining: 14 mm

Continuous thermal capacity

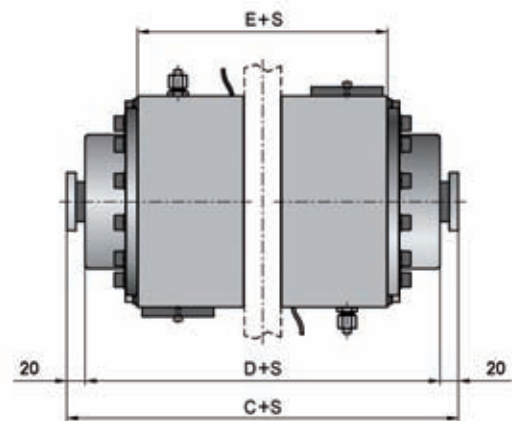
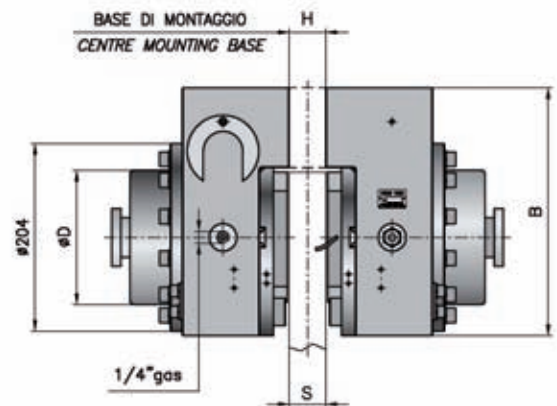
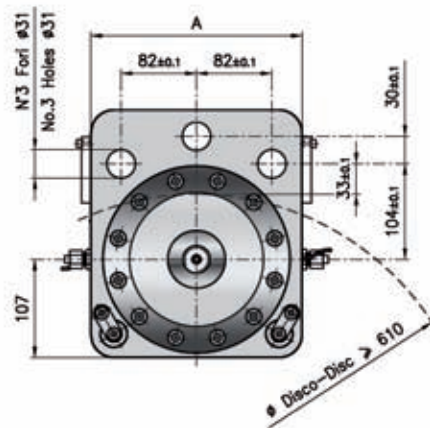
Qc: 21 kW

Hydraulic fluid:

Mineral oil based SAE/ISO 46

Total oil displacement for 2 mm movement of each pad: 0.025 dm³

ID 2000N



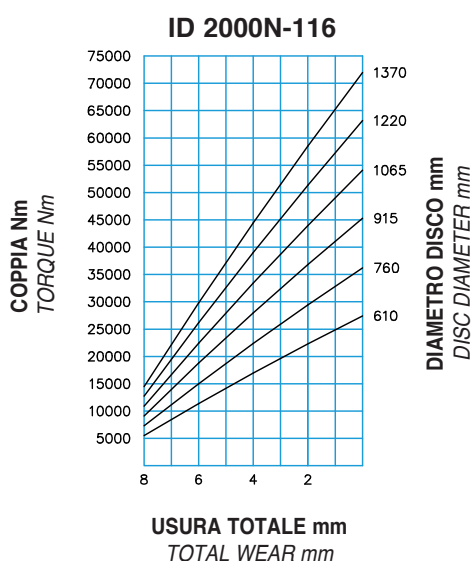
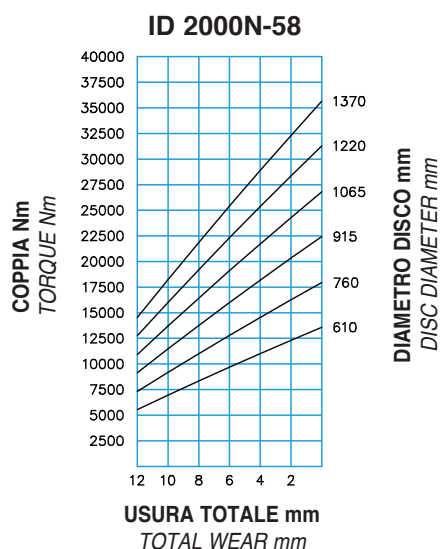
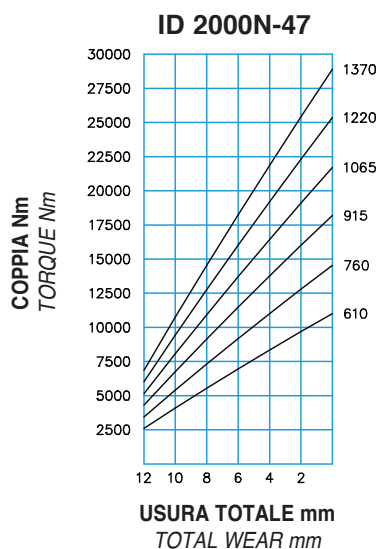
Lo spessore del supporto centrale deve essere uguale allo spessore del disco
 The thickness of center mounting bracket must be same as disc thickness

Solo per il freno ID2000N-116: lo spessore del supporto centrale deve essere uguale allo spessore del disco MENO 2 mm
 Only for brake ID 2000N-116: the thickness of center mounting bracket must be same as disc thickness MINUS 2 mm.

DIMENSIONI DIMENSIONS

TIPO TYPE	Codice Prodotto Product Number	A	B	C	D	E	ØF	H	Volume olio Oil Volume dm ³	Peso Weight kg
ID 2000N-47	A3151	230	270	386	346	232	146	S	0.3	115
ID 2000N-58	A3148	230	270	386	346	232	146	S	0.3	116
ID 2000N-116	A3500	230	270	384	344	230	146	S-2	0.3	116

Attenzione: La coppia iniziale può essere dal 30% al 50% in meno rispetto al valore nominale, fino all'assestamento del ferodo sul disco.
Warning: The initial torque on new units can be 30% to 50% less than the catalogue value until the friction facing and friction disc are lapped or worn in.



DATI TECNICI

Forza tangenziale F:

ID 2000N-47	47000 N
ID 2000N-58	58000 N
ID 2000N-116	116000 N

Coppia dinamica

$$= F \cdot (\text{raggio del disco in m} - 0.071) = \text{Nm}$$

(ID 2000N-47)

Pressione minima di apertura: 85 bar

(ID 2000N-58)

Pressione minima di apertura: 100 bar

(ID 2000N-116)

Pressione minima di apertura: 200 bar

Usura max totale: 18 mm

Spessore del ferodo nuovo: 15 mm

Dissipazione del calore in continuo

Qc: 25 kW

Tipo di olio:

olio a base minerale SAE/ISO 46

Volume olio per uno spostamento

di 2 mm per ciascun ferodo: 0.037 dm³

TECHNICAL DATA

Braking force F:

ID 2000N-47	47000 N
ID 2000N-58	58000 N
ID 2000N-116	116000 N

Dynamic torque:

$$F \cdot (\text{disc radius in m} - 0.071) = \text{Nm}$$

(ID 2000N-47)

Min. release pressure: 85 bar

(ID 2000N-58)

Min. release pressure: 100 bar

(ID 2000N-116)

Min. release pressure: 200 bar

Max pressure: 220 bar

Max total wear: 18 mm

Thickness of new lining: 15 mm

Continuous thermal capacity

Qc: 25 kW

Hydraulic fluid:

Mineral oil based SAE/ISO 46

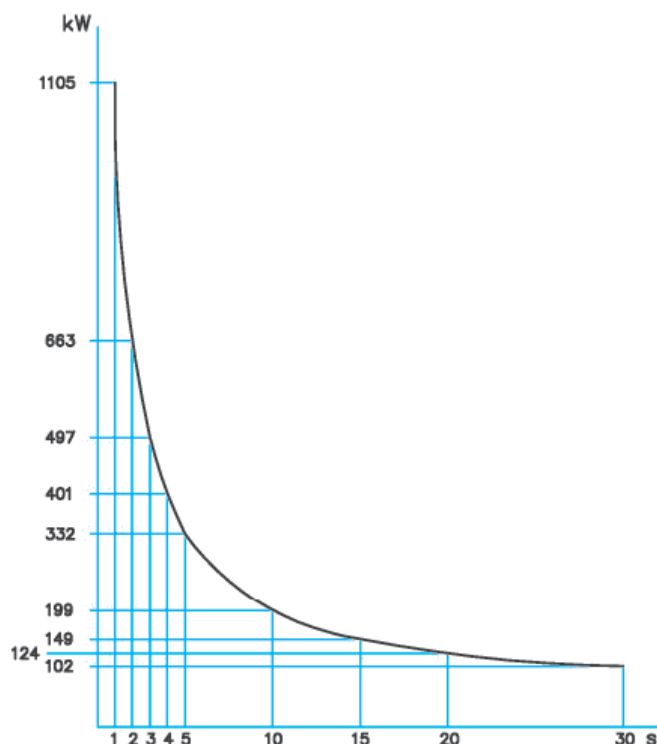
Total oil displacement for 2 mm

movement of each pad: 0.037 dm³

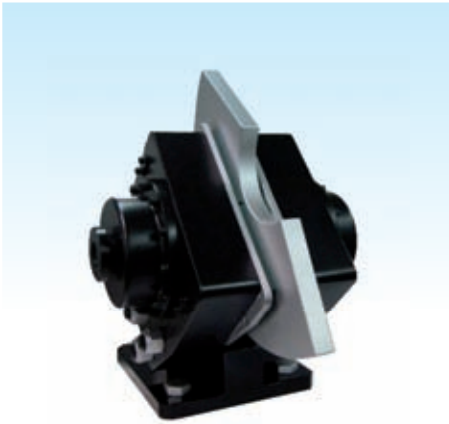
DIAGRAMM CHART

Dissipazione
di calore
per frenatura
di emergenza

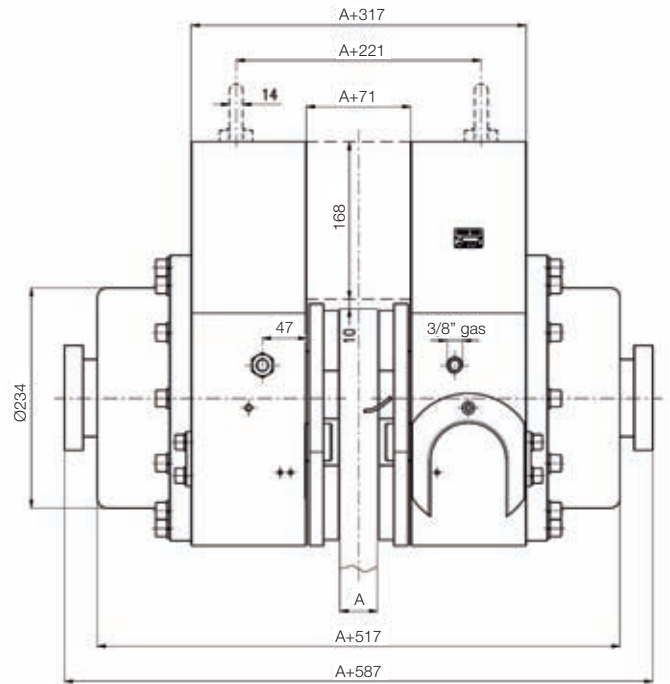
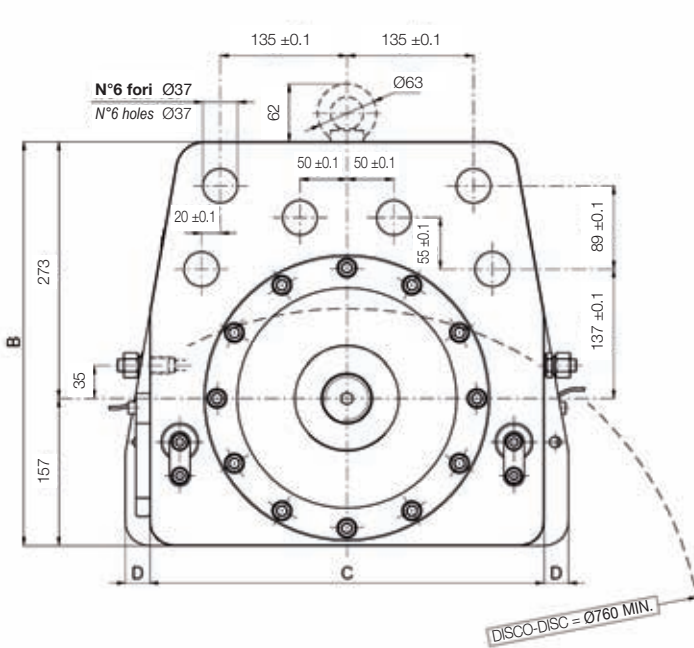
Thermal capacity
for emergency stop



ID 3000N



Lo spessore del supporto centrale deve essere uguale allo spessore del disco + 71 mm
 The thickness of center mounting bracket must be same as disc thickness + 71 mm



DIMENSIONI DIMENSIONS

TIPO TYPE	Codice prodotto Product Number	A	B	C	D	Volume olio Oil Volume dm ³	Peso Weight kg
ID 3000N-200	A3898	Spess. disco Disc thick.	430	420	26	1.3	422
ID 3000N-270	A3902		430	420	26	1.3	424

Attenzione: La coppia iniziale può essere dal 30% al 50% in meno rispetto al valore nominale, fino all'assestamento del ferodo sul disco.
Warning: The initial torque on new units can be 30% to 50% less than the catalogue value until the friction facing and friction disc are lapped or worn in.

DATI TECNICI

Forza tangenziale F:

ID 3000N-200 200000 N

ID 3000N-270 270000 N

Coppia dinamica

$$= F \cdot (\text{raggio del disco in m} - 0.124) = \text{Nm}$$

(ID 3000N-200)

Pressione minima di apertura: 115 bar

(ID 3000N-270)

Pressione minima di apertura: 150 bar

Pressione max: 200 bar

Usura max totale: 20 mm

Spessore del ferodo nuovo: 16 mm

Dissipazione del calore in continuo

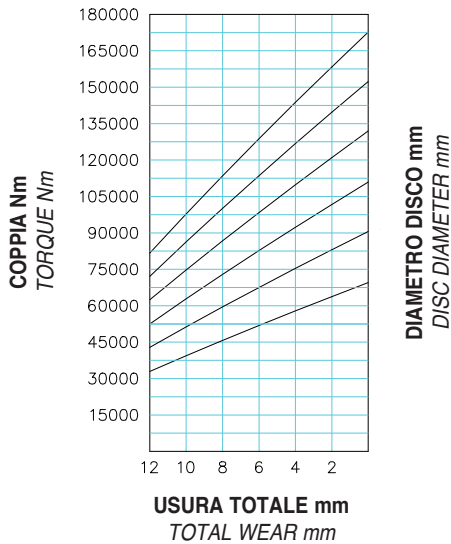
Qc: 80 kW

Tipo di olio:

olio a base minerale SAE/ISO 46

Volume olio per uno spostamento di 2 mm per ciascun ferodo: 0.11 dm³

ID 3000N-270



ID 3000N-200

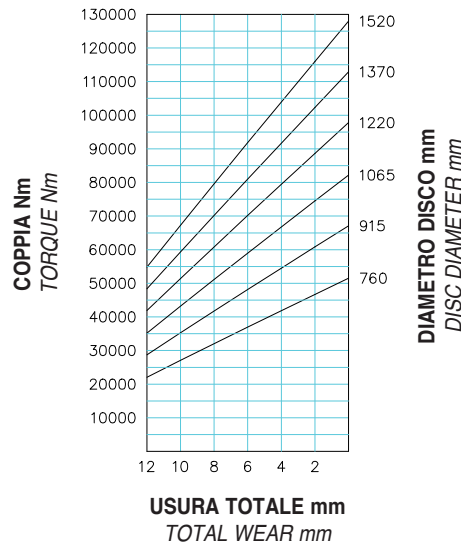
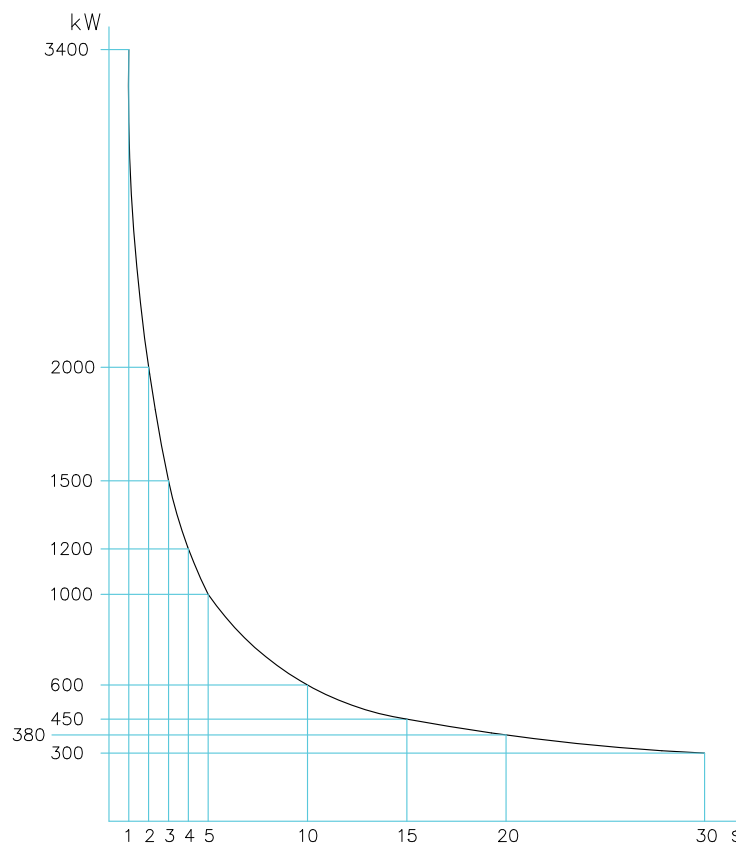


DIAGRAMMA CHART



Dissipazione di calore per frenatura di emergenza

Thermal capacity for emergency stop

TECHNICAL DATA

Braking force F:

ID 3000N-200 200000 N

ID 3000N-270 270000 N

Dynamic torque:

$$F \cdot (\text{disc radius in m} - 0.124) = \text{Nm}$$

(ID 3000N-200)

Min. release pressure: 115 bar

(ID 3000N-270)

Min. release pressure: 150 bar

Max pressure: 200 bar

Max total wear: 20 mm

Thickness of new lining: 16 mm

Continuous thermal capacity

Qc: 80 kW

Hydraulic fluid:

Mineral oil based SAE/ISO 46

Total oil displacement for 2 mm movement of each pad: 0.11 dm³

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