











## 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 **Combined Clutches-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.

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 89/393/CEE, 91/386/CEE, 93/44/CEE and 93/68/CEE, 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.

### **Friction parts**

All the COREMO OCMEA **Combined Clutches-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 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 **Combined Clutches-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 **Combined Clutches-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 **Combined Clutches-Brakes** contain rubber diaphragms and 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

### CALCOLO PER PRESSE E CESOIE

#### Leggenda

- $\alpha$  = Angolo di lavoro della manovella
- $\beta$  = Angolo di lavoro della biella
- $r$  = Raggio della manovella m
- $h$  = Corsa di lavoro m
- $L$  = Lunghezza della biella m
- $F$  = Forza in N
- $C_{\omega}$  = Coppia di lavoro Nm
- $C_{fs}$  = Coppia statica della frizione Nm
- $C_b$  = Coppia dinamica del freno Nm
- $n$  = Velocità dell'albero della combinata  $\text{min}^{-1}$
- $n_1$  = Velocità dell'albero eccentrico  $\text{min}^{-1}$
- $J_m$  = Inerzia delle masse rotanti e traslanti della macchina resa all'asse della combinata  $\text{kgm}^2$
- $J_n$  = Inerzia della combinata  $\text{kgm}^2$
- $J_{tot}$  = Inerzia totale  $\text{kgm}^2$
- $\delta$  = Angolo di frenatura
- $Q_c$  = Calore prodotto in continuo kW
- $Q_s$  = Capacità termica della combinata kW
- $C_{fd}$  = Coppia dinamica frizione Nm



$$\alpha = \cos^{-1} \frac{r - h}{r}$$

$$\beta = \sin^{-1} \frac{r \cdot \sin \alpha}{r}$$

$$C_{\omega} = \frac{F \cdot r \cdot \sin(\alpha + \beta)}{\cos \beta}$$

oppure or

$$C_{\omega} = \frac{F \cdot r \cdot \sin(\alpha + \beta)}{\cos \beta} \frac{n}{n_1}$$

$$C_{\omega} = 1.2 + 1.3 C_{fs}$$

$$J_{tot} = J_m + J_n$$

$$\delta = \frac{J_{tot} \cdot n^2 \cdot 3}{9,55 \cdot C_b}$$

$$Q_c = \frac{J_{tot} \cdot n^2 \cdot s}{182,5 \cdot 60 \cdot 10^3}$$

$$Q_s \geq Q_c$$

## SELECTION

### PRESSES AND SHEARS CALCULATION

#### Legend

- $\alpha$  = Working angle of the crank
- $\beta$  = Working angle of the rod
- $r$  = Crank radius m
- $h$  = Working stroke m
- $L$  = Length of the rod m
- $F$  = Force in N
- $C_{\omega}$  = Working torque Nm
- $C_{fs}$  = Clutch static torque Nm
- $C_b$  = Brake dynamic torque Nm
- $n$  = Speed of clutch-brake shaft  $\text{min}^{-1}$
- $n_1$  = Speed of eccentric shaft  $\text{min}^{-1}$
- $J_m$  = Inertia of machine rotating and linearly moving parts referred to clutch-brake shaft  $\text{kgm}^2$
- $J_n$  = Clutch brake combination inertia  $\text{kgm}^2$
- $J_{tot}$  = Total inertia  $\text{kgm}^2$
- $\delta$  = Braking angle
- $Q_c$  = Continuous generated heat kW
- $Q_s$  = Thermal capacity of the unit kW
- $C_{fd}$  = Clutch dynamic torque Nm

Unità combinata tipo	6	12	25	50	100	200	400	500	600	800	1200
$Q_s$	0,08	0,12	0,22	0,35	0,7	0,9	1,5	1,7	2,2	2,5	3,5

## SELEZIONE

AVVIAMENTO DI INERZIA  
ELEVATA / FRENATA DI  
EMERGENZA

C = Coppia dinamica Nm

J = Inerzia  $\text{kgm}^2$ n = Velocità di rotazione  $\text{kgm}^2$ 

t = Tempo di avviamento/frenata s

Q = Calore prodotto kW

$$C = \frac{I \cdot n}{9,55 \cdot t}$$

$$C = \frac{I \cdot n^2}{182,5 \cdot 10^3 \cdot t}$$

AVVIAMENTO/FRENATA  
CICLICA

C = Coppia dinamica Nm

J = Inerzia  $\text{kgm}^2$ n = Velocità di rotazione  $\text{kgm}^2$ 

t = Tempo di avviamento/frenata s

Q = Calore prodotto kW

Qc = Calore prodotto in continuo kW

s = N° di interventi/minuto

$$C = \frac{I \cdot n}{9,55 \cdot t}$$

$$C = \frac{I \cdot n^2}{182,5 \cdot 10^3 \cdot t}$$

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

## SELECTION

HIGH INERTIA START /  
EMERGENCY STOP

C = Dynamic torque Nm

J = Total inertia load  $\text{kgm}^2$ n = Rotating speed  $\text{kgm}^2$ 

t = Starting/braking time s

Q = Generated heat kW

## CYCLIC START/STOP

C = Dynamic torque Nm

J = Inertia  $\text{kgm}^2$ n = Rotating speed  $\text{kgm}^2$ 

t = Starting/braking time s

Q = Generated heat kW

Qc = Continuous generated heat kW

s = No. of start stop/minute

AF

## Unità combinate frizione e freno

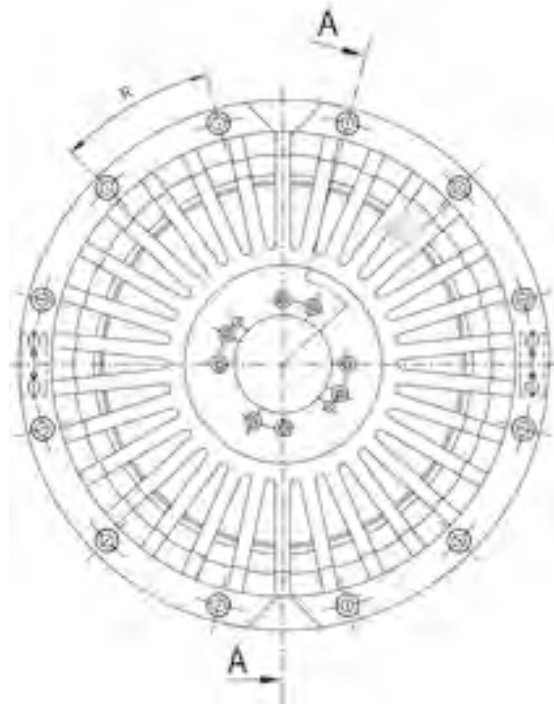
DATI TECNICI  
TECHNICAL DATA

TIPO SIZE	Codice Prodotto Product Number	Coppia Frizione Clutch Torque		Coppia Freno Brake Torque		Velocità Massima Max speed	Capacità Cilindro Cylinder Volume con ferodi nuovi usurati with linings New condition With max wear		Inerzia parti rotanti interne Inertia internal rotating parts	Peso Weight	Molle Springs	Passaggi aria Air supply
		Dinamica Dynamic	Statica Static	Dinamica Dynamic			dm <sup>3</sup>	dm <sup>3</sup>				
		5,5 bar	5,5 bar	Nm	Nm		min <sup>-1</sup>	dm <sup>3</sup>				
6 AF	A0563	65	80	30	3500	0,02	0,05	0,005	2,8	8	1/4"	
12 AF	A0283	135	160	75	3200	0,03	0,08	0,013	5	12	1/4"	
25 AF	A0282	230	270	160	2700	0,07	0,11	0,02	7,8	18	3/8"	
50 AF	A0281	510	660	300	2200	0,10	0,19	0,06	14	18	3/8"	
100 AF	A0280	1060	1280	700	1700	0,17	0,43	0,20	28	18	1/2"	
200 AF	A0279	1920	2300	1400	1400	0,35	0,60	0,58	50	12	1/2"	
400 AF	A0318	4000	4800	2800	1200	0,60	1	1,50	90	20	3/4"	
500 AF	A0388	5000	6000	3400	1100	0,75	1,55	2,15	112	20	3/4"	
600 AF	A0382	7000	8400	4100	1000	0,95	1,90	3,25	146	20	1"	
800 AF	A0389	8600	10300	5600	900	1,35	2,20	5	195	20	1"	
1200 AF	A0383	13000	15600	8600	800	1,80	2,95	9,50	290	20	1 1/2"	

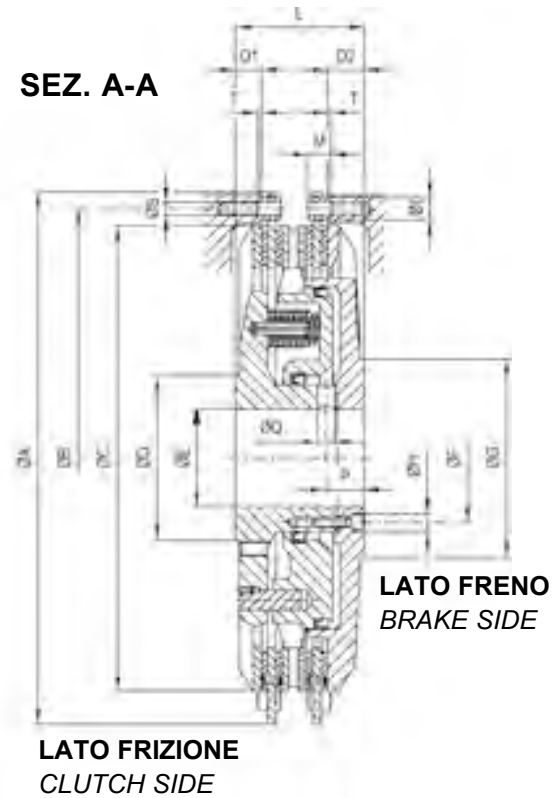
**Attenzione:** La coppia iniziale può essere dal 30% al 50% in meno rispetto al valore nominale, fino all'assettamento del ferodo sul disco.  
**Warning:** The initial torque on new units can be 30% to 50% less than the catalogue value until the friction facing and friction disc are lapped or worn in.



Clutch-Brake Combinations



SEZ. A-A



DIMENSIONI  
DIMENSIONS

TIPO SIZE	ØA	ØB	ØC	ØD	Grezzo Rough		ØF	ØG	ØH	ØI	L	M	O1	O2	P	2 Fori a 180° 2 Holes at 180°		ØS	T
					Max	Max										ØQ	R		
6 AF	148	133	120	50	15	24	36	80	10	9	42	10	5	9	10	4	60°	4,5	2
12 AF	190	173	158	70	20	35	47	80	9,5	10	50	14	7	9	14	6	60°	5,5	2
25 AF	223	205	188	70	22	35	52	80	9,5	10	58	14	8	13	17	7	30°	5,5	2
50 AF	276	255	236	90	25	45	63	105	11,5	12	67	14	11	16	19	9	30°	6,5	2
100 AF	350	325	304	120	40	65	85	125	14	15	82	18	15	18	23	12	30°	8,5	3
200 AF	435	408	380	135	52	80	105	160	14	18	100	19	18	26	27	14	30°	10,5	3
400 AF	535	500	465	155	64	95	115	160	17	25	125	24	28	31	32	14	30°	14,5	3
500 AF	570	536	497	170	65	105	130	180	19	25	140	26	31	33	34	17	30°	14,5	3
600 AF	620	584	543	190	75	110	135	190	19	25	145	26	32	37	37	17	30°	14,5	3
800 AF	680	640	593	230	88	125	152	230	22,5	30	160	28	38	38	40	17	30°	16,5	5
1200 AF	775	725	675	240	88	145	175	240	22,5	35	185	32	41	52	47	23	30°	20,5	5

## AF-OC

## Unità combinate frizione e freno

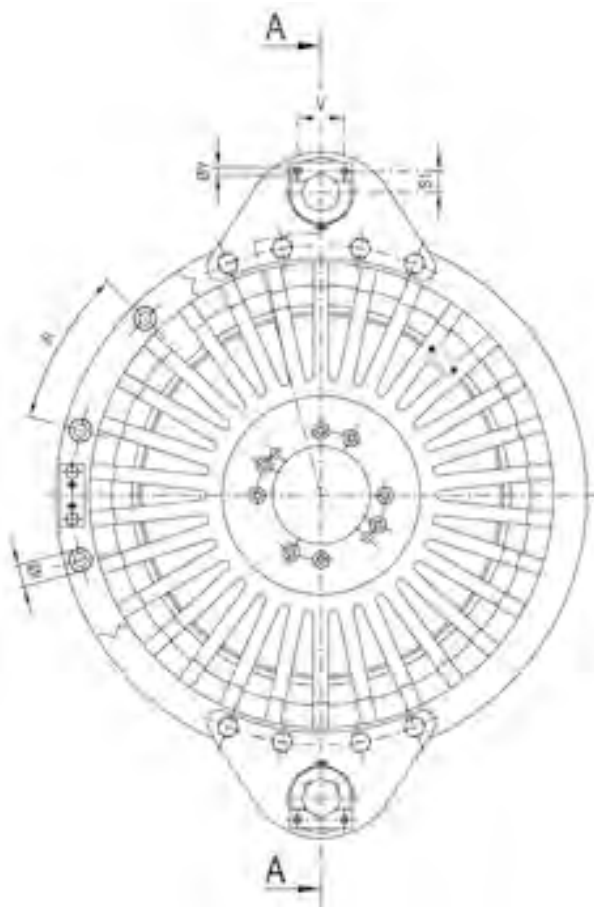

**DATI TECNICI**  
 TECHNICAL DATA

TIPO SIZE	Codice Prodotto Product Number	Coppia Frizione Clutch Torque		Coppia Freno Brake Torque		Velocità Massima Max speed	Capacità Cilindro Cylinder Volume		Inerzia parti rotanti interne Inertia internal rotating parts	Peso Weight	Molle Springs	Passaggi aria Air supply
		Dinamica Dynamic	Statica Static	Dinamica Dynamic	Dinamica Dynamic		con ferodi					
							nuovi	usurati				
							with linings New condition	With max wear				
5.5 bar	5.5 bar	Nm	Nm	Nm	min <sup>-1</sup>	dm <sup>3</sup>	dm <sup>3</sup>	Kgm <sup>2</sup>	Kg	#	gas	
25 AF-OC	A0235	230	270	160	2700	0,07	0,11	0,02	8,4	18	3/8"	
50 AF-OC	A0580	510	660	300	2200	0,10	0,19	0,06	15	18	3/8"	
100 AF-OC	A0236	1060	1280	700	1700	0,17	0,43	0,20	30	18	1/2"	
200 AF-OC	A0231	1920	2300	1400	1400	0,35	0,60	0,58	53	12	1/2"	
400 AF-OC	A0232	4000	4800	2800	1200	0,60	1	1,50	94	20	3/4"	
500 AF-OC	A0233	5000	6000	3400	1100	0,75	1,55	2,15	116	20	3/4"	
600 AF-OC	A0237	7000	8400	4100	1000	0,95	1,90	3,25	150	20	1"	
800 AF-OC	A0234	8600	10300	5600	900	1,35	2,20	5	200	20	1"	
1200 AF-OC	A0238	13000	15600	8600	800	1,80	2,95	9,50	297	20	1 1/2"	

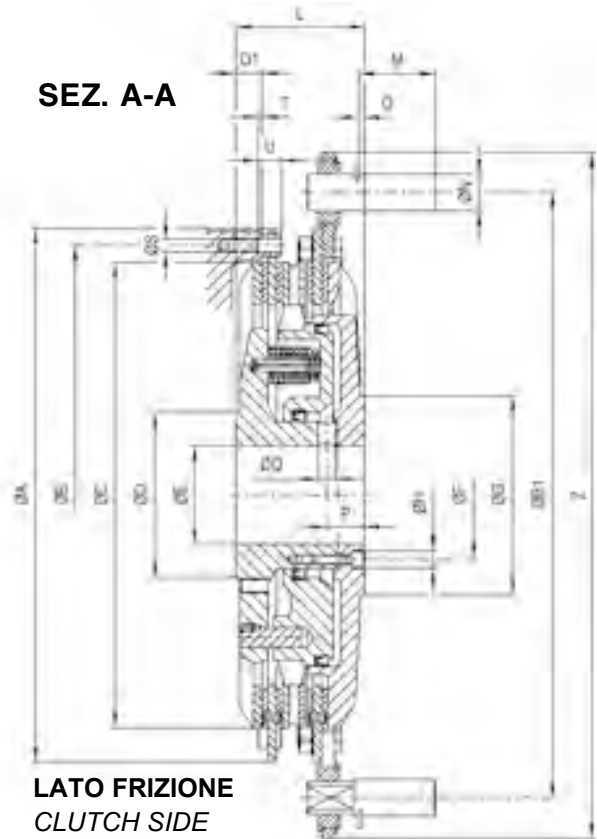
**Attenzione:** La coppia iniziale può essere dal 30% al 50% in meno rispetto al valore nominale, fino all'assettamento del ferodo sul disco.  
**Warning:** The initial torque on new units can be 30% to 50% less than the catalogue value until the friction facing and friction disc are lapped or worn in.

# AF-OC

## Clutch-Brake Combinations



SEZ. A-A



LATO FRIZIONE  
CLUTCH SIDE

LATO FRENO  
BRAKE SIDE

### DIMENSIONI DIMENSIONS

TIPO SIZE	ØA	ØB	ØB1	ØC	ØD	ØE	ØF	ØG	ØH	ØI	L	M	ØN	O	O1	P	ØQ	R	ØS	S1	T	U	V	ØY	Z	
25 AF-OC	223	205	250	188	70	22	35	52	80	9,5	10	58	28	14	1	8	17	7	30°	5,5	10	2	14	25	5,5	300
50 AF-OC	276	255	315	236	90	25	45	63	105	11,5	12	67	45	22	-6	11	19	9	30°	6,5	14	2	14	25	5,5	371
100 AF-OC	350	325	390	304	120	40	65	85	125	14	15	82	45	22	-2	15	23	12	30°	8,5	14	3	18	25	5,5	446
200 AF-OC	435	408	495	380	135	52	80	105	160	14	18	100	60	30	-2	18	27	14	30°	10,5	18	3	19	38	6,5	565
400 AF-OC	535	500	610	465	155	64	95	115	160	17	25	125	80	40	1	28	32	14	30°	14,5	22,5	3	24	38	6,5	706
500 AF-OC	570	536	645	497	170	65	105	130	180	19	25	140	80	40	6	31	34	17	30°	14,5	22,5	3	26	38	6,5	741
600 AF-OC	620	584	695	543	190	75	110	135	190	19	25	145	80	40	8	32	37	17	30°	14,5	22,5	3	26	38	6,5	791
800 AF-OC	680	640	770	593	230	88	125	152	230	22,5	30	160	90	45	0	38	40	17	30°	16,5	26,5	5	28	38	6,5	880
1200 AF-OC	775	725	880	675	240	88	145	175	240	22,5	35	185	110	55	7	41	47	23	30°	20,5	31	5	32	45	8,5	1020

OC

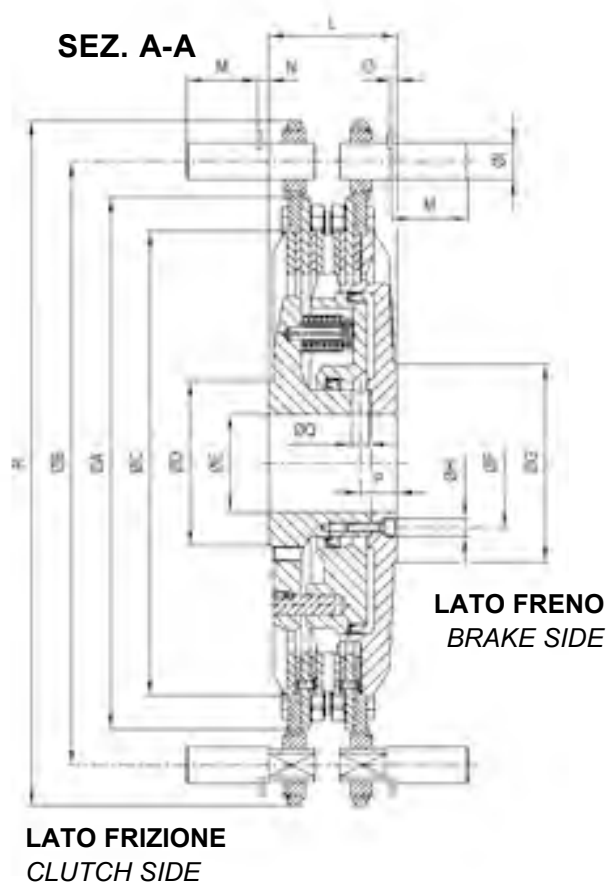
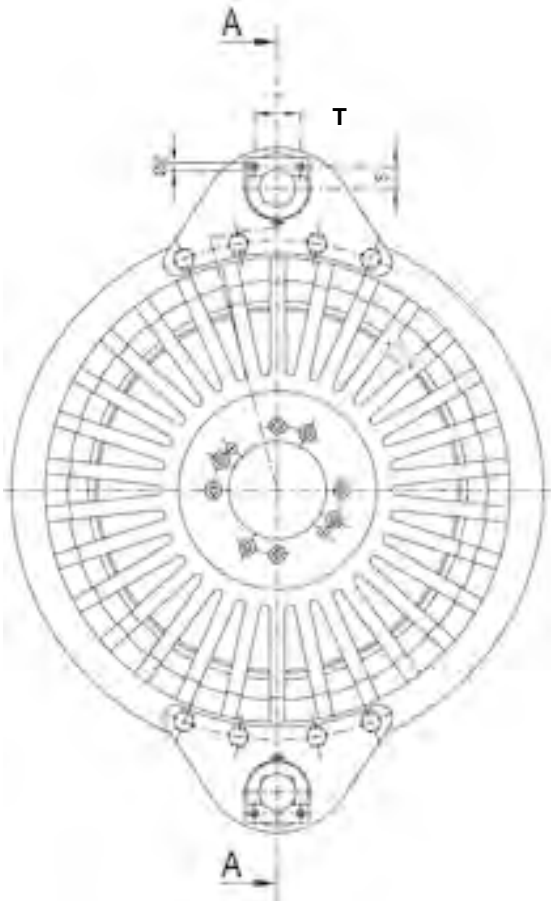
## Unità combinate frizione e freno


**DATI TECNICI**  
 TECHNICAL DATA

TIPO SIZE	Codice Prodotto Product Number	Coppia Frizione Clutch Torque		Coppia Freno Brake Torque	Velocità Massima Max speed	Capacità Cilindro Cylinder Volume con ferodi nuovi with linings New condition		Inerzia parti rotanti interne Inertia internal rotating parts	Peso Weight	Molle Springs	Passaggi aria Air supply	
		Dinamica Dynamic	Statica Static	Dinamica Dynamic		con ferodi usurati With max wear	dm <sup>3</sup>					dm <sup>3</sup>
		5.5 bar	5.5 bar	Nm		Nm	min <sup>-1</sup>					dm <sup>3</sup>
<b>25 OC</b>	A0241	230	270	160	2700	0,07	0,11	0,02	8,4	18	3/8"	
<b>50 OC</b>	A0162	510	660	300	2200	0,10	0,19	0,06	15	18	3/8"	
<b>100 OC</b>	A0163	1060	1280	700	1700	0,17	0,43	0,20	31	18	1/2"	
<b>200 OC</b>	A0242	1920	2300	1400	1400	0,35	0,60	0,58	55	12	1/2"	
<b>400 OC</b>	A0164	4000	4800	2800	1200	0,60	1	1,50	98	20	3/4"	
<b>500 OC</b>	A0165	5000	6000	3400	1100	0,75	1,55	2,15	120	20	3/4"	
<b>600 OC</b>	A0384	7000	8400	4100	1000	0,95	1,90	3,25	143	20	1"	
<b>800 OC</b>	A0166	8600	10300	5600	900	1,35	2,20	5	204	20	1"	
<b>1200 OC</b>	A0385	13000	15600	8600	800	1,80	2,95	9,50	284	20	1 1/2"	

**Attenzione:** La coppia iniziale può essere dal 30% al 50% in meno rispetto al valore nominale, fino all'assettamento 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.

Clutch-Brake Combinations



DIMENSIONI  
DIMENSIONS

TIPO SIZE	ØA	ØB	ØC	ØD	ØE		ØF	ØG	ØH	ØI	L	M	N	O	P	ØQ	R	S	T	ØZ
					Grezzo Rough	Max Max														
25 OC	223	250	188	70	22	35	52	80	9,5	14	58	28	4	1	17	7	300	10	25	5,5
50 OC	276	315	236	90	25	45	63	105	11,5	22	67	45	11	-6	19	9	371	14	25	5,5
100 OC	350	390	304	120	40	65	85	125	14	22	82	45	6	-2	23	12	446	14	25	5,5
200 OC	435	495	380	135	52	80	105	160	14	30	100	60	10	-2	27	14	565	18	38	6,5
400 OC	535	610	465	155	64	95	115	160	17	40	125	80	2	1	32	14	706	22,5	38	6,5
500 OC	570	645	497	170	65	105	130	180	19	40	140	80	-4	6	34	17	741	22,5	38	6,5
600 OC	620	695	543	190	75	110	135	190	19	40	145	80	-3	8	37	17	791	22,5	38	6,5
800 OC	680	770	593	230	88	125	152	230	22,5	45	160	90	0	0	40	17	880	26,5	38	6,5
1200 OC	775	880	675	240	88	145	175	240	22,5	55	185	110	4	7	47	23	1020	31	45	8,5



## Unità combinate frizione e freno



### DATI TECNICI TECHNICAL DATA

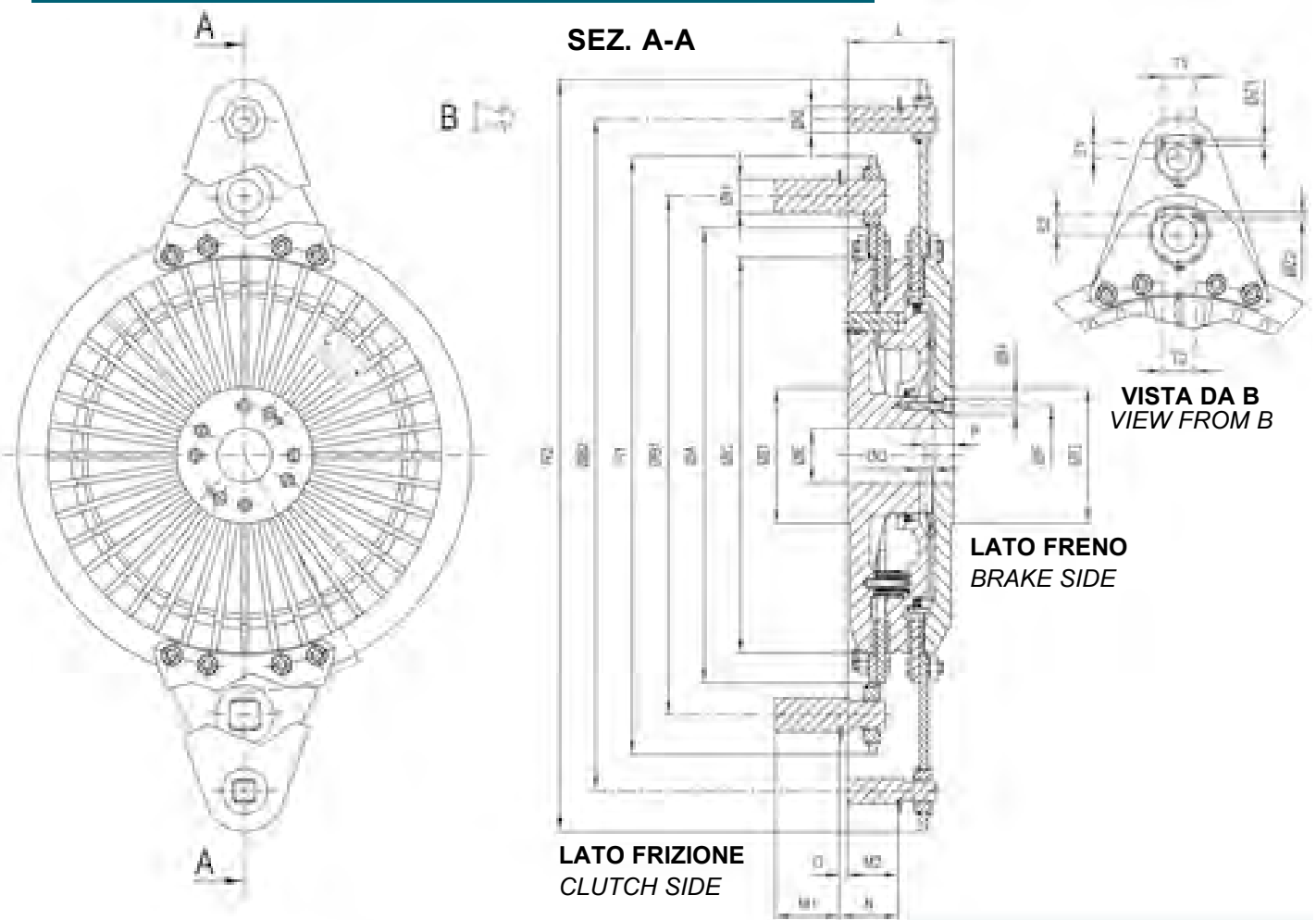
TIPO SIZE	Codice Prodotto Product Number	Coppia Frizione Clutch Torque		Coppia Freno Brake Torque		Velocità Massima Max speed	Capacità Cilindro Cylinder Volume con ferodi nuovi with linings New condition		Inerzia parti rotanti interne Inertia internal rotating parts	Peso Weight	Molle Springs	Passaggi aria Air supply
		Dinamica Dynamic	Statica Static	Dinamica Dynamic	Statica Static		con ferodi usurati with linings With max wear	Statica Static				
		5.5 bar	5.5 bar	Nm	Nm		Nm	min <sup>-1</sup>				
25 LL	A0523	230	270	160	2700	0,07	0,11	0,02	8,8	18	3/8"	
50 LL	A0176	510	660	300	2200	0,10	0,19	0,06	15,3	18	3/8"	
100 LL	A0177	1060	1280	700	1700	0,17	0,43	0,20	30	18	1/2"	
200 LL	A0178	1920	2300	1400	1400	0,35	0,60	0,58	55	12	1/2"	
400 LL	A0179	4000	4800	2800	1200	0,60	1	1,50	100	20	3/4"	
500 LL	A0180	5000	6000	3400	1100	0,75	1,55	2,15	122	20	3/4"	
600 LL	A0181	7000	8400	4100	1000	0,95	1,90	3,25	158	20	1"	
800 LL	A0182	8600	10300	5600	900	1,35	2,20	5	212	20	1"	
1200 LL	A0183	13000	15600	8600	800	1,80	2,95	9,50	322	20	1 1/2"	

**Attenzione:** La coppia iniziale può essere dal 30% al 50% in meno rispetto al valore nominale, fino all'assestamento del ferodo sul disco.  
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Clutch-Brake Combinations



DIMENSIONI  
DIMENSIONS

TIPO SIZE	ØA	ØB1	ØB2	ØC	ØD	ØE	ØF	ØG	ØH	ØI1	ØI2	L	M1	M2	N	O	P	ØQ	R1	R2	S1	S2	T1	T2	ØZ1	ØZ2
	Grezzo Max Rough Max																	2 Fori a 180° 2 Holes at 180°								
25 LL	223	250	325	188	70	22	35	52	80	9,5	14	58	28	28	32	4	17	7	300	391	10	10	25	25	5,5	5,5
50 LL	276	315	410	236	90	25	45	63	105	11,5	22	67	45	28	47	11	19	9	371	474	10	14	25	25	5,5	5,5
100 LL	350	390	490	304	120	40	65	85	125	14	22	82	45	40	50	6	23	12	446	550	12	14	25	25	5,5	5,5
200 LL	435	495	635	380	135	52	80	105	160	14	30	100	60	45	58	10	27	14	565	721	14	18	25	38	5,5	6,5
400 LL	535	610	790	465	155	64	95	115	160	17	40	125	80	60	62	2	32	14	706	880	18	22,5	38	38	6,5	6,5
500 LL	570	645	830	497	170	65	105	130	180	19	40	140	80	60	68	-4	34	17	741	920	18	22,5	38	38	6,5	6,5
600 LL	620	695	885	543	190	75	110	135	190	19	40	145	80	60	73	-3	37	17	791	985	18	22,5	38	38	6,5	6,5
800 LL	680	770	990	593	230	88	125	152	230	22,5	45	160	90	80	88	0	40	17	880	1110	22,5	26,5	38	38	6,5	6,5
1200 LL	775	880	1135	675	240	88	145	175	240	22,5	55	185	110	90	97	4	47	23	1020	1255	26,5	31	38	45	6,5	8,5

FF

## Frizione

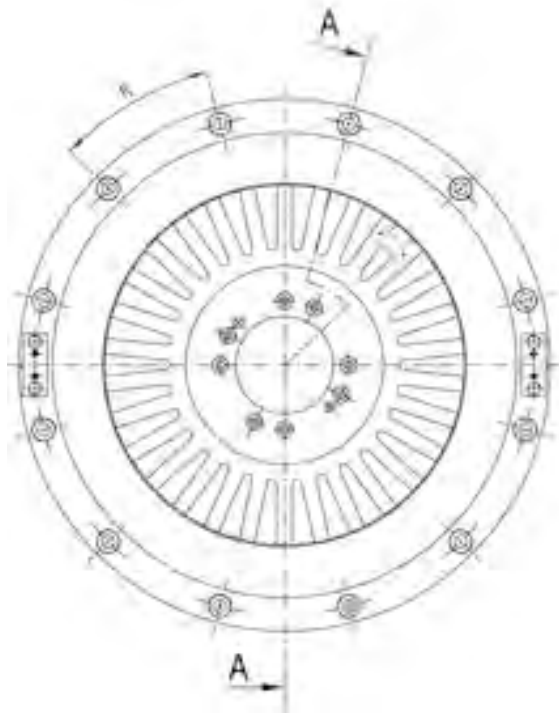

**DATI TECNICI**  
**TECHNICAL DATA**

TIPO SIZE	Codice Prodotto Product Number	Coppia Frizione Clutch Torque		Velocità Massima Max speed	Capacità Cilindro Cylinder Volume		Inerzia parti rotanti interne Inertia internal rotating parts	Peso Weight	Molle Springs	Passaggi aria Air supply
		Dinamica Dynamic	Statica Static		con ferodi nuovi	usurati				
		5.5 bar	5.5 bar		with linings New condition	With max wear				
		Nm	Nm	min <sup>-1</sup>	dm <sup>3</sup>	dm <sup>3</sup>	Kgm <sup>2</sup>	Kg	#	gas
<b>6 FF</b>	A0565	80	96	3500	0,02	0,05	0,0045	2,4	3	1/4"
<b>12 FF</b>	A0221	190	230	3200	0,03	0,08	0,012	4,2	3	1/4"
<b>25 FF</b>	A0222	360	430	2700	0,07	0,11	0,018	6,8	3	3/8"
<b>50 FF</b>	A0223	800	960	2200	0,10	0,19	0,05	11,8	3	3/8"
<b>100 FF</b>	A0224	1600	2000	1700	0,17	0,43	0,16	23	3	1/2"
<b>200 FF</b>	A0225	2950	3500	1400	0,35	0,60	0,50	42	3	1/2"
<b>400 FF</b>	A0226	6100	7300	1200	0,60	1	1,33	76	4	3/4"
<b>500 FF</b>	A0227	7500	9000	1100	0,75	1,55	1,93	96	4	3/4"
<b>600 FF</b>	A0228	10000	12000	1000	0,95	1,90	2,70	125	4	1"
<b>800 FF</b>	A0229	12800	15400	900	1,35	2,20	4,25	170	4	1"
<b>1200 FF</b>	A0230	19800	23700	800	1,80	2,95	8,50	245	4	1 1/2"

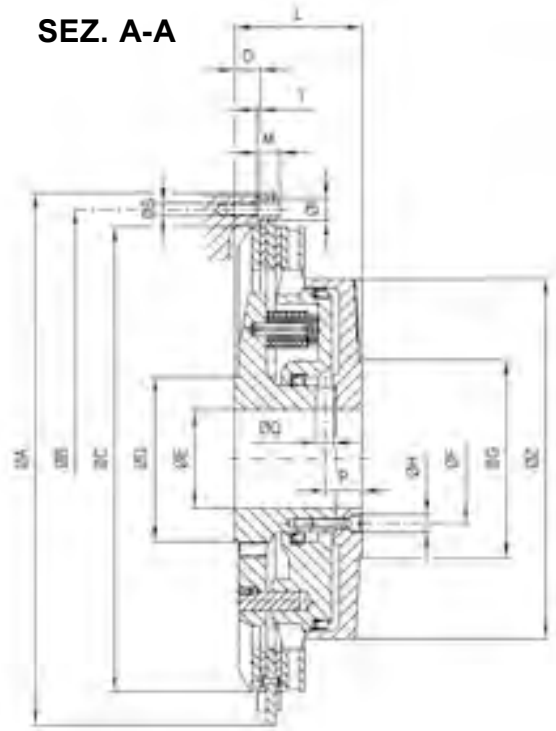
**Attenzione:** La coppia iniziale può essere dal 30% al 50% in meno rispetto al valore nominale, fino all'assettamento del ferodo sul disco.  
**Warning:** The initial torque on new units can be 30% to 50% less than the catalogue value until the friction facing and friction disc are lapped or worn in.



Clutch



SEZ. A-A



DIMENSIONI  
DIMENSIONS

TIPO SIZE	ØA	ØB	ØC	ØD	Grezzo Max Rough Max					2 Fori a 180° 2 Holes at 180°									
					ØE	ØF	ØG	ØH	ØI	L	M	O	P	ØQ	R	ØS	T	ØZ	
6 FF	148	133	120	50	15	24	36	80	10	9	42	10	5	10	4	60°	4,5	2	95
12 FF	190	173	158	70	20	35	47	80	9,5	10	50	14	7	14	6	60°	5,5	2	122
25 FF	223	205	188	70	22	35	52	80	9,5	10	58	14	8	17	7	30°	5,5	2	148
50 FF	276	255	236	90	25	45	63	105	11,5	12	67	14	11	19	9	30°	6,5	2	190
100 FF	350	325	304	120	40	65	85	125	14	15	82	18	15	23	12	30°	8,5	3	243
200 FF	435	408	380	135	52	80	105	160	14	18	100	19	18	27	14	30°	10,5	3	295
400 FF	535	500	465	155	64	95	115	160	17	25	125	24	28	32	14	30°	14,5	3	372
500 FF	570	536	497	170	65	105	130	180	19	25	140	26	31	34	17	30°	14,5	3	402
600 FF	620	584	543	190	75	110	135	190	19	25	145	26	32	37	17	30°	14,5	3	438
800 FF	680	640	593	230	88	125	152	230	22,5	30	160	28	38	40	17	30°	16,5	5	482
1200 FF	775	725	675	240	88	145	175	240	22,5	35	185	32	41	47	23	30°	20,5	5	548

SS

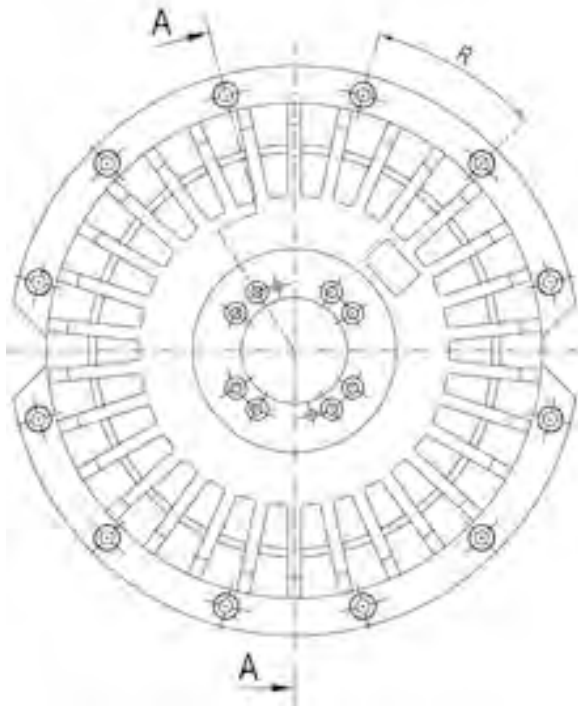
## Freno


**DATI TECNICI**  
**TECHNICAL DATA**

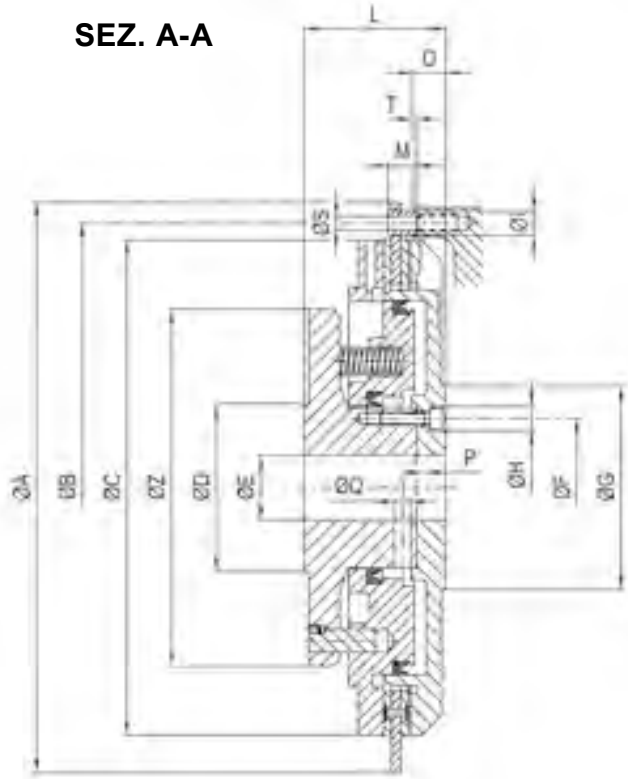
TIPO SIZE	Codice Prodotto Product Number	Coppia Freno Brake Torque		Pressione Min. di apertura Min. Release Pressure	Velocità Massima Max speed	Capacità Cilindro Cylinder Volume con ferodi nuovi with linings New condition		Inerzia parti rotanti interne Inertia internal rotating parts	Peso Weight	Molle Springs	Passaggi aria Air supply
		Dinamica Dynamic	Dinamica Dynamic			con ferodi usurati With max wear	con ferodi usurati				
			Nm	bar	min <sup>-1</sup>	dm <sup>3</sup>	dm <sup>3</sup>	Kgm <sup>2</sup>	Kg	#	gas
<b>6 SS</b>	A0564	40		3,5	3500	0,02	0,05	0,0045	2,4	8	1/4"
<b>12 SS</b>	A0207	95		3,5	3200	0,03	0,08	0,012	4,2	12	1/4"
<b>25 SS</b>	A0208	200		4	2700	0,07	0,11	0,018	6,8	18	3/8"
<b>50 SS</b>	A0209	380		3,5	2200	0,10	0,19	0,05	11,8	18	3/8"
<b>100 SS</b>	A0210	900		4	1700	0,17	0,43	0,16	23	18	1/2"
<b>200 SS</b>	A0211	1700		4	1400	0,35	0,60	0,46	42	12	1/2"
<b>400 SS</b>	A0212	3400		4	1200	0,60	1	1,25	76	20	3/4"
<b>500 SS</b>	A0213	3900		3,5	1100	0,75	1,55	1,83	96	20	3/4"
<b>600 SS</b>	A0214	4700		3,5	1000	0,95	1,90	2,60	125	20	1"
<b>800 SS</b>	A0215	6500		3,5	900	1,35	2,20	4,25	170	20	1"
<b>1200 SS</b>	A0216	10000		3,5	800	1,80	2,95	7,75	245	20	1 1/2"

**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.

Brake



SEZ. A-A

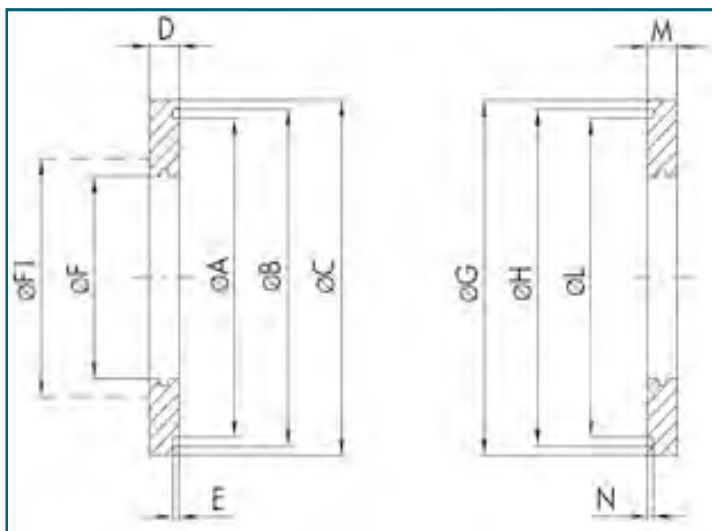


DIMENSIONI  
DIMENSIONS

TIPO SIZE	ØA	ØB	ØC	ØD	Grezzo Max Rough Max		ØF	ØG	ØH	ØI	L	M	O	P	2 Fori a 180° 2 Holes at 180°		ØS	T	ØZ
					ØE										ØQ	R			
<b>6 SS</b>	148	133	120	50	15	24	36	80	10	9	42	10	9	10	4	60°	4,5	2	95
<b>12 SS</b>	190	173	158	70	20	35	47	80	9,5	10	50	14	9	14	6	60°	5,5	2	107
<b>25 SS</b>	223	205	188	70	22	35	52	80	9,5	10	58	14	13	17	7	30°	5,5	2	142
<b>50 SS</b>	276	255	236	90	25	45	63	105	11,5	12	67	14	16	19	9	30°	6,5	2	172
<b>100 SS</b>	350	325	304	120	40	65	85	125	14	15	82	18	18	23	12	30°	8,5	3	215
<b>200 SS</b>	435	408	380	135	52	80	105	160	14	18	100	19	26	27	14	30°	10,5	3	265
<b>400 SS</b>	535	500	465	155	64	95	115	160	17	25	125	24	31	32	14	30°	14,5	3	355
<b>500 SS</b>	570	536	497	170	65	105	130	180	19	25	140	26	33	34	17	30°	14,5	3	385
<b>600 SS</b>	620	584	543	190	75	110	135	190	19	25	145	26	37	37	17	30°	14,5	3	428
<b>800 SS</b>	680	640	593	230	88	125	152	230	22,5	30	160	28	38	40	17	30°	16,5	5	470
<b>1200 SS</b>	775	725	675	240	88	145	175	240	22,5	35	185	32	52	47	23	30°	20,5	5	530

## LATO FRIZIONE CLUTCH SIDE

## LATO FRENO BRAKE SIDE

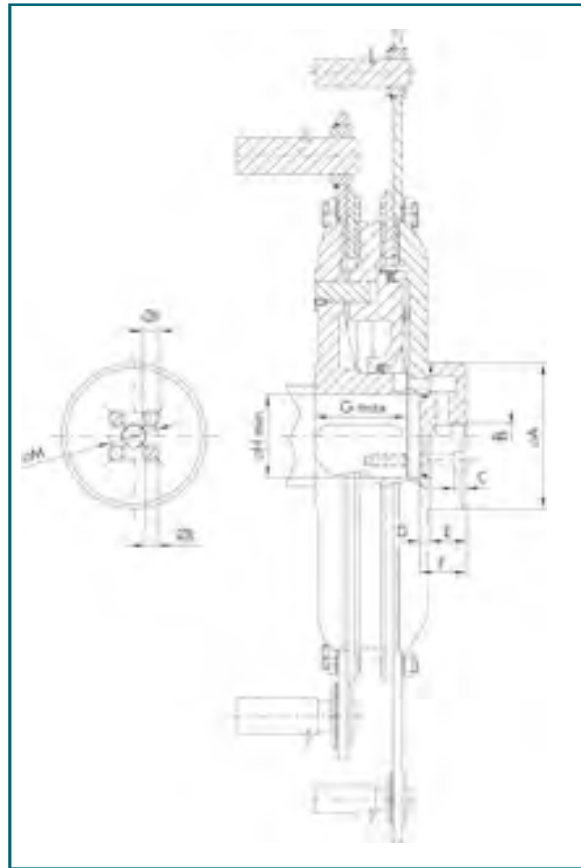


## DIMENSIONI FLANGE DI TENUTA SEALING FLANGES DIMENSIONS

TIPO SIZE	ØA	ØB	ØC	D	E	"O" Ring N°	ØF1	ØG	ØH	ØL	M	N	"O" Ring N°
6	40	46	50	6	2	3156	Ø F+10	63	60	54	6	2	3212
12	51	57	70	6	2	3200	Ø F+10	80	74	68	6	2	3268
25	51	57	70	6	2	3200	Ø F+10	80	74	68	6	2	3268
50	63	71	75	8	2,9	167	Ø F+12	90	86	78	8	2,9	4312
100	82	90	95	10	2,9	4325	Ø F+12	118	112	104	10	2,9	4412
200	104	112	118	12	2,9	4412	Ø F+16	145	137	129	12	2,9	4512
400	142	150	158	14	2,9	4562	Ø F+16	158	150	142	14	2,9	4562
500	151	159	168	14	2,9	4600	Ø F+16	168	159	151	14	2,9	4600
600	164	172	178	14	2,9	4650	Ø F+20	178	172	164	14	2,9	4650
800	183	191	198	14	2,9	4725	Ø F+20	198	191	183	14	2,9	4725
1200	215	223	228	16	2,9	4850	Ø F+20	228	223	215	16	2,9	4850

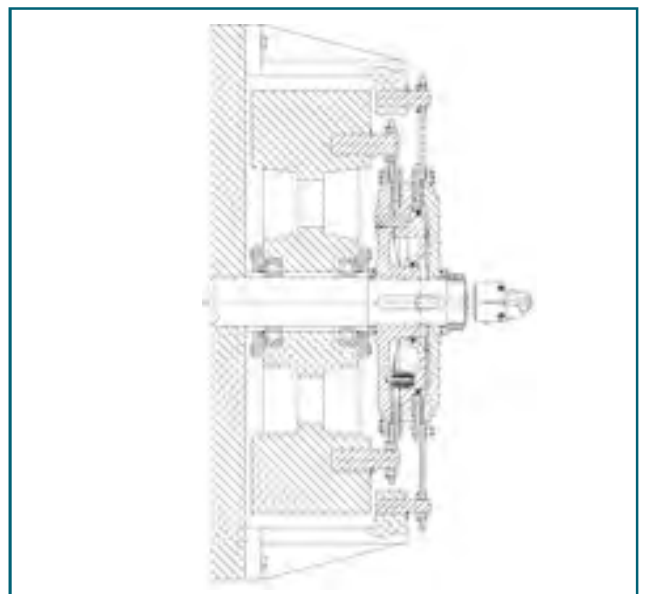
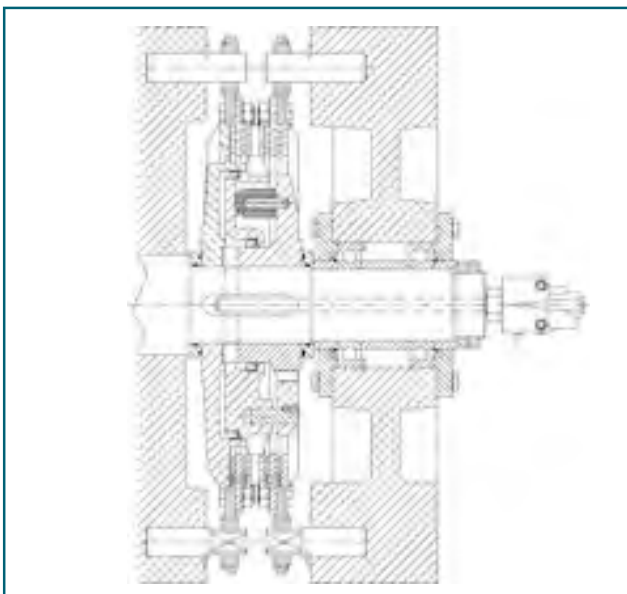
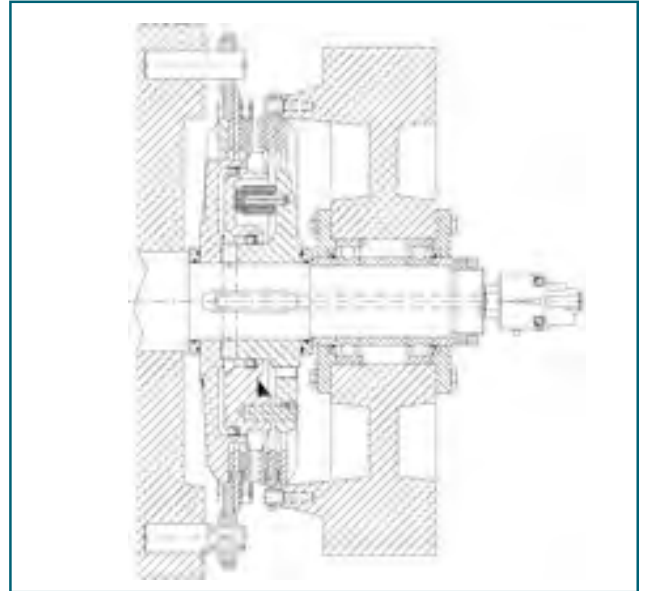
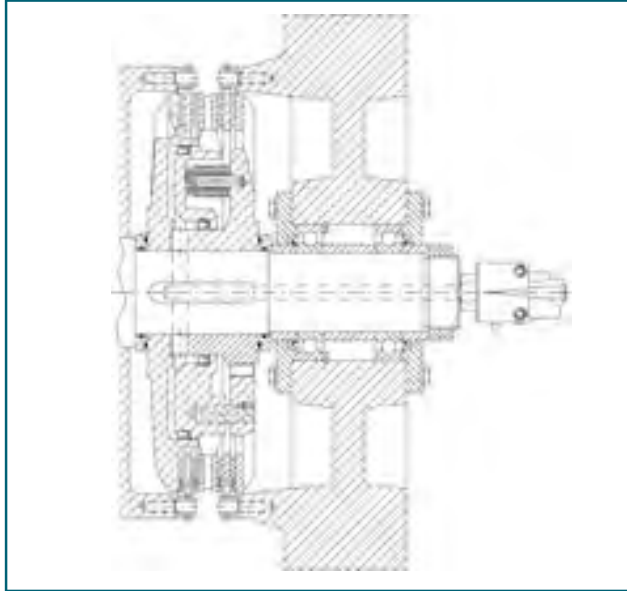
**LATO FRIZIONE**  
*CLUTCH SIDE*

**LATO FRENO**  
*BRAKE SIDE*



## DIMENSIONI FLANGE ADDUTTRICI MANIFOLDS DIMENSIONS

TIPO SIZE	ØA	B	C	D	E	F	G	ØH		ØI	ØL	ØM
	gas							max	min			
12	69	1/4"	6	11	23	34	40	33	9,5	5,5	23,5	
25	79	1/4"	6	11	23	34	45	33	9,5	5,5	23,5	
50	89	3/8"	7	11	28	39	55	44	11	6,5	32	
100	117	3/8"	9	11	30	41	65	49	14	8,5	36	
100	117	1/2"	9	11	30	41	65	54	14	8,5	40	
200	145	1/2"	11	11	35	46	80	60	17	11	44	
200	145	3/4"	11	11	35	46	80	67	17	11	50	
400	158	3/4"	13	11	40	51	100	70	19	13	53	
500	168	3/4"	15	11	40	51	115	83	22	15	60	
500	168	1"	15	11	40	51	115	85	22	15	62	
600	178	1"	15	11	45	56	117	85	22	15	62	
800	195	1"	17	11	45	56	130	90	25	17	66	
1200	228	1 1/2"	19	11	48	59	150	110	28	19	85	





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