气动盘式制动器
Air disc brakes

应用： QP□.CQP□系列气动盘式制动器，广泛应用于中小型驱动机构的停车制动或减速制动。卷绕机构的张紧制动，如造纸厂卷纸张紧、新闻印刷时新闻纸的张紧控制、钢板(钢丝)卷展开张紧及电线电缆放线、放缆张紧控制等。

Application:

QP□.CQP□ series Pneumatic Disc Brakes are widely used for speed reducing ,stopping/braking of the low or medium torque driving mechanism. The brakes can also be applied as tension brake on winding machineries, such as: paper-web tension control, news paper publishing tension control, steel unwind control, wire and cable reel unwind tension etc.

使用条件
Operating conditions

●适合的环境温度：-20~+60℃。
●最大工作压力：7bar。
●气源要求：通入气包的压缩空气应干燥、洁净，不能含有腐蚀性气体。
●安装方式：适合于水平轴或垂直轴制动方式。水平轴制动方式时，可沿制动盘周围任意角度安装，但最好是水平安装：垂直轴制动方式时，角度不限：一个制动盘，可安装一台制动器，也可安装两台或两台以上制动器，但安装两台或两台以上时建议尽量对称安装。

● *Ambient temperature: .-20℃~+60℃*
● *Operation air pressure (Max.): 7bar.*
● *Air requirement: dry and filtered compressed air, excluded corrosion gas.*
● *Installation: the brake is either horizontally mounted or vertically mounted. While it is used at horizontal shaft, the brake can be positioned within any angel around the disc, but ideally they should be mounted horizontally (in 3 org o'clock position); while it is applied at vertical shaft, no angle is required. Per disc can be fitted either one brake or two and more. When two or more brakes are applied, symmetrically installation is recommended.*

主要特点
Main Design Features

●QP□系列为弹簧制动，气动释放；CQP□系列为气压制动，弹簧释放。
●整体结构简单，体积小，重量轻。
●无石棉制动衬垫，绿色环保。
●制动衬垫安装采用压簧卡装式，更换方便快捷。
●所有动力源无需单独设置，可与已有的空压站并网使用。

● *QP□ series of spring brake , pneumatic release ; CQP□ series air brake , spring release.*
● *Overall structure is simple , small size, light weight .*
● *Non-asbestos brake pads , green .*
● *Install the brake pads mounted using spring loaded card , replace the quick and easy .*
● *No separate power source for all settings, with the existing Air Station and network use.*



QP系列 *Series*

订货标记
Order Mark

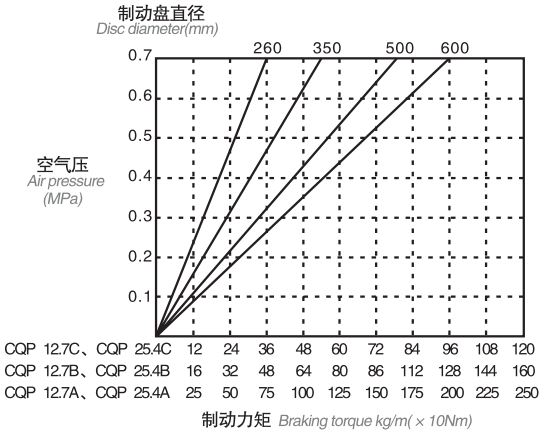
QP(CQP)□ □ × □ – □
- 制动力矩 *Braking torque(Nm)*
- 制动盘厚度 *Disc thickness(mm)*
- 制动盘直径 *Disc diameter(mm)*
- 产品型号 *Type*

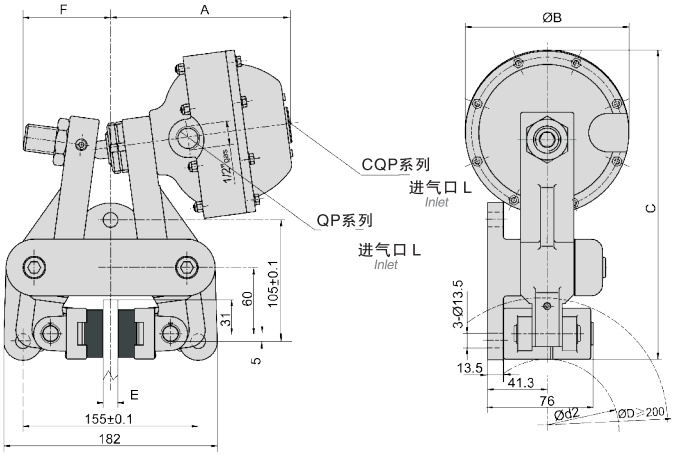
QP.CQP系列气动盘式制动器

QP.CQP series air disc brakes

CQP系列空压与制动力矩的关系

The relationship between air pressure and brake torque of CQP series





QP系列气动盘式制动器基本参数和尺寸 *Technical date and dinensions*

型 号 Type	A	B	C	D	E	F	L	d2	制动推力 Braking impulse(N)	最小释放压力 Minimum release pressure(MPa)	重 量 Weight (kg)
QP–12.7C	161.5	141	263	≥200	12.7	83.5	RC1/4	D-110	3000	0.5	9
QP–12.7B	189	176	280	≥200	12.7	83.5	RC1/4	D-110	5500	0.5	9.5
QP–12.7A	194	190	298	≥200	12.7	83.5	RC3/8	D-110	11000	0.5	11
QP–25.4C	161.5	141	263	≥200	25.4	79	RC1/4	D-110	3000	0.5	9
QP–25.4B	189	176	280	≥200	25.4	79	RC1/4	D-110	5500	0.5	9.5
QP–25.4A	194	190	298	≥200	25.4	79	RC3/8	D-110	11000	0.5	11

制动盘有效半径R=0.001×（制动盘半径-31）
制动力矩NM=制动推力×R

Brake disc effective radius R = 0.001 × (brake disc radius -31)
NM = brake braking torque thrust × R

CQP系列气动盘式制动器基本参数和尺寸 *Technical date and dinensions*

型 号 Type	A	B	C	D	E	F	L	d2	压缩比 Compression ratio	气缸容积 Cylinder volume (dm^3)	最大压力 Maximum pressure (Mpa)	重 量 Weight (kg)
CQP–12.7C	173	118	251	≥200	12.7	72.5	RC1/4	D-110	1.83	0.1	0.7	8.5
CQP–12.7B	173	141	263	≥200	12.7	72.5	RC1/4	D-110	1.83	0.2	0.7	9
CQP–12.7A	173	176	280	≥200	12.7	72.5	RC1/4	D-110	1.83	0.4	0.7	9.5
CQP–25.4C	175	118	251	≥200	25.4	72	RC1/4	D-110	1.83	0.1	0.7	8.5
CQP–25.4B	175	141	263	≥200	25.4	72	RC1/4	D-110	1.83	0.2	0.7	9
CQP–25.4A	175	176	280	≥200	25.4	72	RC1/4	D-110	1.83	0.4	0.7	9.5

注：1、气包的安装位置有左式和右式，订货时注明。
2、可生产不同盘厚、不同安装尺寸的气动钳盘制动器。
3、具体型号、结构外形尺寸保留更改的权利。

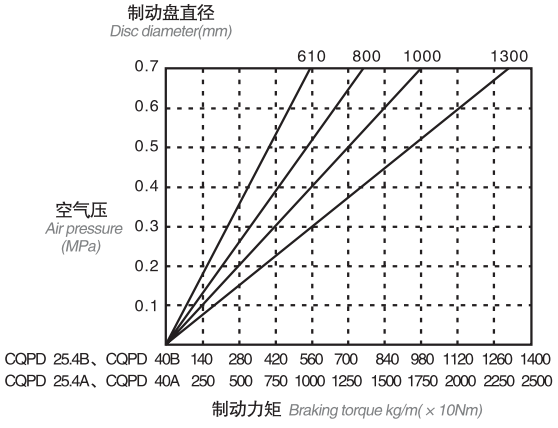
Note : 1、air bag is installed with left-and right-hand side , specify when ordering .
2 、can produce different plate thickness , different installation size pneumatic clamp disc brake .
3 、the specific model , the structure to retain the right to change dimensions .

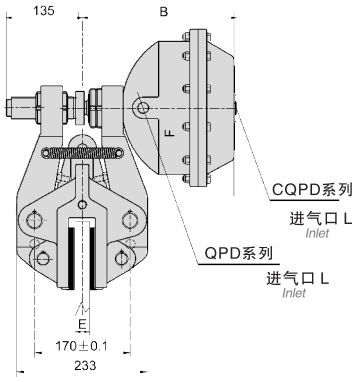
QPD.CQPD系列气动盘式制动器

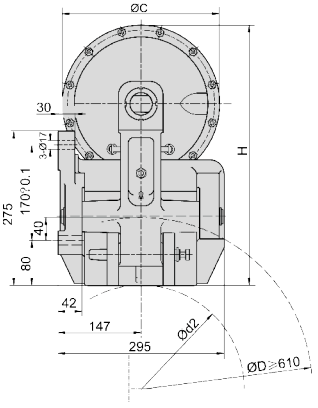
QPD.CQPD series air disc brakes

CQPD系列空压与制动力矩的关系

The relationship between air pressure and brake torque of CQPD series







QPD系列气动盘式制动器基本参数和尺寸 *Technical date and dinensions*

型 号 Type	B	C	D	E	H	L	d2	制动推力 Braking impulse(N)	最小释放压力 Minimum release pressure(MPa)	重 量 Weight (kg)
QPD–25.4B	220	190	≥610	25.4	417.5	RC3/8	D-250	14150	0.5	61
QPD–25.4A	299	280	≥610	25.4	462.5	RC1/2	D-250	32000	0.5	70
QPD–40B	220	190	≥610	40	417.5	RC3/8	D-250	14150	0.5	61
QPD–40A	299	280	≥610	40	462.5	RC1/2	D-250	32000	0.5	70

制动盘有效半径R=0.001×（制动盘半径-65）
制动力矩NM=制动推力×R

Brake disc effective radius R = 0.001 × (brake disc radius -65)
NM = brake braking torque thrust × R

CQPD系列气动盘式制动器基本参数和尺寸 *Technical date and dinensions*

型 号 Type	B	C	D	E	H	L	d2	压缩比 Compression ratio	气缸容积 Cylinder volume (dm^3)	最大压力 Maximum pressure (Mpa)	重 量 Weight (kg)
CQPD–25.4B	220	190	≥610	25.4	417.5	RC3/8	D-250	2.82	0.7	0.7	57
CQPD–25.4A	299	280	≥610	25.4	462.5	RC1/2	D-250	2.82	3	0.7	63
CQPD–40B	220	190	≥610	40	417.5	RC3/8	D-250	2.82	0.7	0.7	57
CQPD–40A	299	280	≥610	40	462.5	RC1/2	D-250	2.82	3	0.7	63

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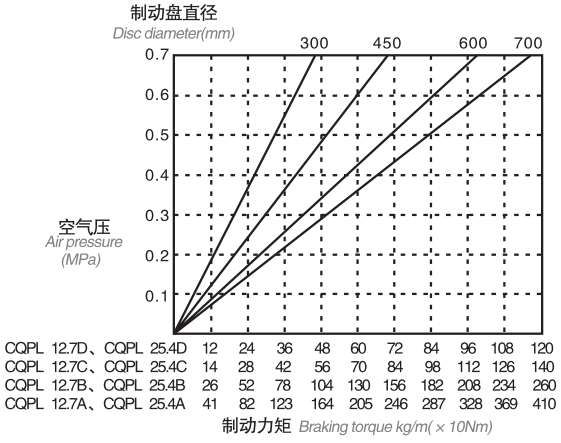
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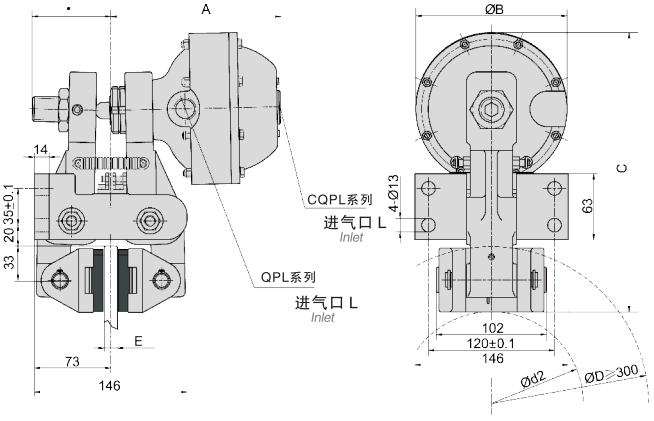
QPL,CQPL系列气动盘式制动器

QPL, CQPL series air disc brakes

CQPL系列空压与制动力矩的关系

The relationship between air pressure and brake torque of CQPL series





QPL系列气动盘式制动器基本参数和尺寸 *Technical date and dinensions*

型 号 Type	A	B	C	D	E	F	L	d2	制动推力 Braking impulse(N)	最小释放压力 Minimum release pressure(MPa)	重 量 Weight (kg)
QPL–12.7C	161.5	141	264	≥300	12.7	72.5	RC1/4	D-110	3000	0.5	12
QPL–12.7B	189	176	281.5	≥300	12.7	72.5	RC1/4	D-110	5500	0.5	13
QPL–12.7A	194	190	288.5	≥300	12.7	72.5	RC3/8	D-110	10400	0.5	15.1
QPL–25.4C	162	141	265.5	≥300	25.4	72	RC1/4	D-110	3000	0.5	12
QPL–25.4B	189.5	176	283	≥300	25.4	72	RC1/4	D-110	5500	0.5	13
QPL–25.4A	194.5	190	290	≥300	25.4	72	RC3/8	D-110	10400	0.5	15.1

制动盘有效半径R=0.001 ×（制动盘半径-31）
制动力矩NM=制动推力 ×R

Brake disc effective radius R = 0.001 ×（brake disc radius -31)
NM = brake braking torque thrust × R

CQPL系列气动盘式制动器基本参数和尺寸 *Technical date and dinensions*

型 号 Type	A	B	C	D	E	F	L	d2	压缩比 Compression ratio	气缸容积 Cylinder volume (dm^3)	最大压力 Maximum pressure (Mpa)	重 量 Weight (kg)
CQPL–12.7D	125	118	252.5	≥300	12.7	72.5	RC1/4	D-110	1.86	0.1	0.7	9.5
CQPL–12.7C	127	141	264	≥300	12.7	72.5	RC1/4	D-110	1.86	0.2	0.7	10.3
CQPL–12.7B	139.5	176	281.5	≥300	12.7	72.5	RC1/4	D-110	1.86	0.4	0.7	11.5
CQPL–12.7A	194	190	288.5	≥300	12.7	72.5	RC3/8	D-110	1.86	0.7	0.7	14.3
CQPL–25.4D	125.5	118	252.5	≥300	25.4	72	RC1/4	D-110	1.86	0.1	0.7	9.5
CQPL–25.4C	127	141	264	≥300	25.4	72	RC1/4	D-110	1.86	0.2	0.7	10.3
CQPL–25.4B	140	176	281.5	≥300	25.4	72	RC1/4	D-110	1.86	0.4	0.7	11.5
CQPL–25.4A	194.5	190	288.5	≥300	25.4	72	RC3/8	D-110	1.86	0.7	0.7	14.3

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