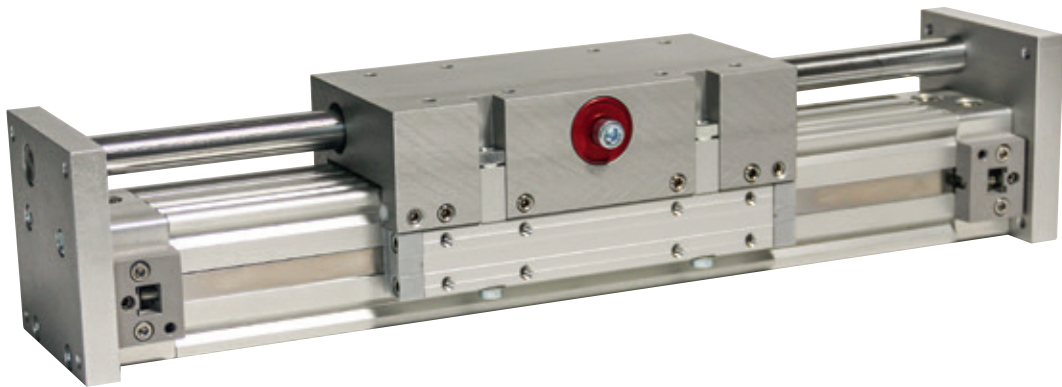


ZFB 导流缸,带被动锁闭装置

ZFB导流缸,带被动锁闭装置



ZFB Guiding cylinder with passive locking unit
ZFB 导流缸,带被动锁闭装置

ZFB Guiding cylinder with passive safety unit

Technical information

- Special guiding cylinder with external passive locking unit for arrest in case of pressure drop.
- The locking unit can be installed on any ZS standard cylinder.
- The passive locking cartridge applies its locking force in case the pressure in the working pressure circuit drops.
- The locking force is applied to an external sliding guide.
- The locking force is greater than the action force of the cylinder.

Addition for using the ZFB Guiding cylinder

The locking forces Fb listed in the dimensional table on page 35 refer to pure static loading.

Slipping may occur if these maximum values are exceeded. The acting forces in dynamic load scenarios must under no circumstances exceed the static locking forces.

In addition, the locking forces may be slightly lowered if the shaft is not dry.

When using rodless pneumatic cylinders, we generally recommend controlling the same using a 5/3-way valve with an open center position.

With respect to time, the valve circuit must be controlled in such a way that the yoke is loaded with pressurized air on both sides in case of an intermediate stop before the locking cartridge is depressurized.

When releasing, the cylinder should be pressurized on both sides in order to prevent any sudden movements of the yoke (risk of accidents).

ZFB 导流缸,带被动锁闭装置

技术信息

- 特制导流缸, 当出现压降时, 外部被动锁闭装置启动锁闭
- 锁闭装置可装于任何ZS标准气缸上
- 当工作回路中运行气压下降时, 被动锁闭筒可施加锁闭力
- 锁闭力施加在外部滑动导轨上
- 锁闭力大于气缸的作用力

ZFB导流缸使用方法补充

第35页测量值表上列有锁闭力Fb, 请参见纯静态负荷加载。

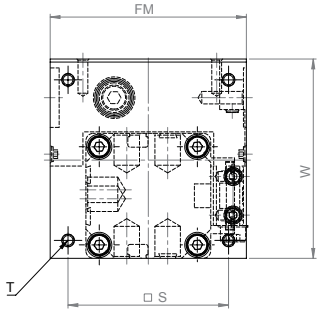
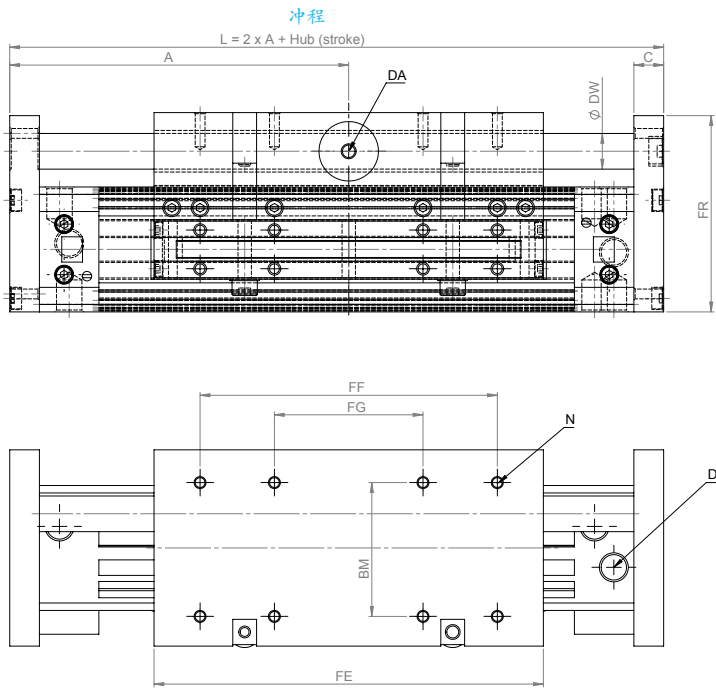
如果超过最大值, 则将出现滑动情况。
无论在何种情况下, 动态负荷作用力均不得超过静态锁闭力。

此外, 如轴不干燥, 则锁闭力会稍有下降。

使用无杆气缸时, 我们通常用开放式中心位置5位3通阀进行控制。

就时间而言, 锁闭筒减压前, 如果中途出现停滞情况, 活塞杆两侧加载压缩空气以控制阀门回路。

释放时, 应对气缸两侧加压, 防止活塞杆突然运动 (事故风险)。



Measurements table

测量值表

Piston-Ø 活塞-Ø	Ø 18 mm	Ø 25 mm	Ø 32 mm	Ø 40 mm	Ø 50 mm	Ø 63 mm
A	86	110	130	162	195	230
BM	35	45	55	70	85	105
C	6	10	10	12	15	15
D x thread depth D x 螺纹深度	M5 x 6 mm	G1/8" x 8 mm	G1/8" x 8 mm	G1/4" x 12 mm	G1/4" x 12 mm	G3/8" x 12 mm
DA	M5	M5	M5	G1/8"	G1/8"	G1/8"
DW	Ø 6	Ø 12	Ø 12	Ø 16	Ø 20	Ø 20
FE	103	131	171	220	280	333
FF	75	100	140	180	220	280
FG	- - -	50	70	90	110	140
FM	50	66	80	97	116	136
FR	47	66	78	92,5	114,5	138
L	L = 2 x A + Stroke 冲程 max.最大 3000 mm					
N x thread depth N x 螺纹深度	M4 x 7,5 mm	M4 x 8 mm	M5 x 10 mm	M6 x 12 mm	M8 x 16 mm	M8 x 16 mm
S	42	54	68	80	100	120
T	M3	M4	M5	M6	M8	M8
W	48	67	79	93,5	115,5	139
Cushioning length 缓冲长度	15	18	24	34	40	49
Fb	180 N	600 N	600 N	1000 N	1400 N	2000 N

Example for order:
ZFB Ø 25 Guiding cylinder with passive safety unit (release under pressure)
with stroke 100 mm

订单示例:
ZFB Ø 25导流缸,带被动锁闭装置 (压力下释放)
冲程100 mm

Order number 订单编号

3	2	5	4	-	0	0	0	0	-	0	1	0	0
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