

FIPLOCK® ONE 锁紧扭矩

Tightening torque for FIPLOCK® ONE

以下锁紧扭矩适用于下面 FIPLOCK® ONE 产品系列:

Below please find the tightening torques valid for the following FIPLOCK® ONE articles:

外螺纹接头

External thread

应力释放接头

Stain relief



ASPA

塑料螺纹 / Plastic:
M, PG, NPT, HV
金属螺纹 / Metal:
MMK, MML, PGM



AWPA/AEPA

塑料螺纹 / Plastic:
M, PG, NPT
金属螺纹 / Metal:
MMK, MML, PGM



AAPA

塑料螺纹 / Plastic:
M, PG, NPT
金属螺纹 / Metal:
MMK, MML, PGM



AZPA

塑料螺纹 / Plastic:
M, PG, NPT, C
金属螺纹 / Metal:
MMK, MML, NPTM, PGM

内螺纹接头

Internal thread



AFPA

塑料螺纹 / Plastic:
M, PG, U-A, U-B, U-M
金属螺纹 / Metal:
MM, PGM



AFPD

外螺纹锁紧扭矩

Tightening torque external thread

锁紧扭矩, 单位 NM <i>Tightening torque in NM</i>		
螺纹尺寸 / Thread	塑料螺纹 / Plastic	金属螺纹 / Nickel plated brass
M12	1,5 Nm	7 Nm
M16	3,0 Nm	8 Nm
M20	5,0 Nm	10 Nm
M25	7,0 Nm	11 Nm
M32	9,0 Nm	13 Nm
M40	11,0 Nm	15 Nm
M50	12,0 Nm	15 Nm
M63	12,0 Nm	15 Nm

PG07	1,5 Nm	7 Nm
PG09	3,0 Nm	8 Nm
PG11	5,0 Nm	10 Nm
PG13	7,0 Nm	11 Nm
PG16	9,0 Nm	13 Nm
PG21	11,0 Nm	15 Nm
PG29	12,0 Nm	15 Nm
PG36	12,0 Nm	15 Nm

NPT 1/2	5,0 Nm	8 Nm
NPT 3/4	7,0 Nm	9 Nm
NPT 1"	9,0 Nm	10 Nm
NPT 1 1/4	11,0 Nm	15 Nm
NPT 1 1/2	12,0 Nm	15 Nm
NPT 2"	12,0 Nm	15 Nm

锁紧扭矩, 单位 in-lbf <i>Tightening torque in in-lbf</i>		
螺纹尺寸 / Thread	塑料螺纹 / Plastic	金属螺纹 / Nickel plated brass
M12	13,3 in-lbf	62,0 in-lbf
M16	26,6 in-lbf	70,8 in-lbf
M20	44,3 in-lbf	88,5 in-lbf
M25	62,0 in-lbf	97,4 in-lbf
M32	79,7 in-lbf	115,1 in-lbf
M40	97,4 in-lbf	132,8 in-lbf
M50	106,2 in-lbf	132,8 in-lbf
M63	106,2 in-lbf	132,8 in-lbf

PG07	13,3 in-lbf	44,3 in-lbf
PG09	17,7 in-lbf	53,1 in-lbf
PG11	22,1 in-lbf	53,1 in-lbf
PG13	26,6 in-lbf	53,1 in-lbf
PG16	44,3 in-lbf	62,0 in-lbf
PG21	62,0 in-lbf	88,5 in-lbf
PG29	79,7 in-lbf	88,5 in-lbf
PG36	97,4 in-lbf	132,8 in-lbf

NPT 1/2	44,3 in-lbf	70,8 in-lbf
NPT 3/4	62,0 in-lbf	79,7 in-lbf
NPT 1"	79,7 in-lbf	88,5 in-lbf
NPT 1 1/4	97,4 in-lbf	88,5 in-lbf
NPT 1 1/2	106,2 in-lbf	132,8 in-lbf
NPT 2"	106,2 in-lbf	132,8 in-lbf

应用推荐: 扭矩表中推荐的扭矩值是基于与我们相对应的塑料或金属螺母配合而定。

Application recommendation: Data on the tightening torques are based on values in connection with our corresponding polyamide or metal lock nut.

应力释放接头扭矩

Tightening torque strain relief

锁紧扭矩，单位 NM Tightening torque in NM				
螺纹尺寸 Thread	接头处 / Fittings		收缩头处 / Domed cap nuts	
	塑料螺纹 Plastic	金属螺纹 Nickel plated brass	塑料螺纹 Plastic	金属螺纹 Nickel plated brass
M12	1,5 Nm	8,00 Nm	1,5 Nm	8,00 Nm
M16	3,0 Nm	10,00 Nm	3,0 Nm	10,00 Nm
M20	6,0 Nm	12,00 Nm	6,0 Nm	12,00 Nm
M25	8,0 Nm	12,00 Nm	8,0 Nm	12,00 Nm
M32	10,0 Nm	18,00 Nm	10,0 Nm	18,00 Nm
M40	13,0 Nm	18,00 Nm	13,0 Nm	18,00 Nm
M50	15,0 Nm	20,00 Nm	15,0 Nm	20,00 Nm
M63	16,0 Nm	20,00 Nm	16,0 Nm	20,00 Nm
PG07	3,0 Nm	6,25 Nm	1,7 Nm	6,25 Nm
PG09	4,0 Nm	6,25 Nm	2,5 Nm	6,25 Nm
PG11	4,0 Nm	6,25 Nm	2,5 Nm	6,25 Nm
PG13	4,0 Nm	6,25 Nm	2,5 Nm	6,25 Nm
PG16	6,0 Nm	7,50 Nm	3,3 Nm	7,50 Nm
PG21	8,0 Nm	10,00 Nm	5,0 Nm	10,00 Nm
PG29	13,0 Nm	10,00 Nm	5,0 Nm	10,00 Nm
PG36	13,0 Nm	10,00 Nm	5,0 Nm	10,00 Nm
PG48	13,0 Nm	10,00 Nm	5,0 Nm	10,00 Nm
NPT 3/8	1,5 Nm	6,00 Nm	1,5 Nm	6,00 Nm
NPT 1/2	1,5 Nm	8,00 Nm	1,5 Nm	8,00 Nm
NPT 3/4	6,0 Nm	12,00 Nm	6,0 Nm	12,00 Nm
NPT 1"	8,0 Nm	12,00 Nm	8,0 Nm	12,00 Nm

锁紧扭矩，单位 in-lbf Tightening torque in in-lbf				
螺纹尺寸 Thread	接头处 / Fittings		收缩头处 / Domed cap nuts	
	塑料螺纹 Plastic	金属螺纹 Nickel plated brass	塑料螺纹 Plastic	金属螺纹 Nickel plated brass
M12	13,3 in-lbf	70,8 in-lbf	13,3 in-lbf	70,8 in-lbf
M16	26,6 in-lbf	88,5 in-lbf	26,6 in-lbf	88,5 in-lbf
M20	53,1 in-lbf	106,2 in-lbf	53,1 in-lbf	106,2 in-lbf
M25	70,8 in-lbf	106,2 in-lbf	70,8 in-lbf	106,2 in-lbf
M32	88,5 in-lbf	159,3 in-lbf	88,5 in-lbf	159,3 in-lbf
M40	115,1 in-lbf	159,3 in-lbf	115,1 in-lbf	159,3 in-lbf
M50	132,8 in-lbf	177,0 in-lbf	132,8 in-lbf	177,0 in-lbf
M63	141,6 in-lbf	177,0 in-lbf	141,6 in-lbf	177,0 in-lbf
PG07	26,6 in-lbf	55,3 in-lbf	15,1 in-lbf	55,3 in-lbf
PG09	35,4 in-lbf	55,3 in-lbf	22,1 in-lbf	55,3 in-lbf
PG11	35,4 in-lbf	55,3 in-lbf	22,1 in-lbf	55,3 in-lbf
PG13	35,4 in-lbf	55,3 in-lbf	22,1 in-lbf	55,3 in-lbf
PG16	53,1 in-lbf	66,4 in-lbf	26,6 in-lbf	66,4 in-lbf
PG21	70,8 in-lbf	159,3 in-lbf	44,3 in-lbf	159,3 in-lbf
PG29	115,1 in-lbf	159,3 in-lbf	44,3 in-lbf	159,3 in-lbf
PG36	115,1 in-lbf	159,3 in-lbf	44,3 in-lbf	159,3 in-lbf
PG48	115,1 in-lbf	159,3 in-lbf	44,3 in-lbf	159,3 in-lbf
NPT 3/8	13,3 in-lbf	70,8 in-lbf	13,3 in-lbf	70,8 in-lbf
NPT 1/2	13,3 in-lbf	70,8 in-lbf	13,3 in-lbf	70,8 in-lbf
NPT 3/4	53,1 in-lbf	106,2 in-lbf	53,1 in-lbf	106,2 in-lbf
NPT 1"	70,8 in-lbf	106,2 in-lbf	70,8 in-lbf	106,2 in-lbf

应用推荐：扭矩表中推荐的扭矩值是基于与我们相对应的塑料或金属螺母配合而定。

Application recommendation: Data on the tightening torques are based on values in connection with our corresponding polyamide or metal lock nut.

内螺纹锁紧扭矩

Tightening torque internal thread

锁紧扭矩, 单位 NM <i>Tightening torque in NM</i>		
螺纹尺寸 / Thread	塑料螺纹 / Plastic	金属螺纹 / Nickel plated brass
M12	1,5 Nm	7,0 Nm
M16	3,0 Nm	8,0 Nm
M20	5,0 Nm	10,0 Nm
M25	7,0 Nm	11,0 Nm
M32	9,0 Nm	13,0 Nm
M40	11,0 Nm	15,0 Nm
M50	12,0 Nm	15,0 Nm
M63	12,0 Nm	15,0 Nm

PG07	1,5 Nm	5,0 Nm
PG09	2,0 Nm	6,0 Nm
PG11	2,5 Nm	6,0 Nm
PG13	3,0 Nm	6,0 Nm
PG16	5,0 Nm	7,0 Nm
PG21	7,0 Nm	10,0 Nm
PG29	9,0 Nm	10,0 Nm
PG36	11,0 Nm	15,0 Nm

1/4" - 32 UNEF	1,0 Nm	6,0 Nm
5/16" - 32 UNEF	1,0 Nm	6,0 Nm
3/8" - 32 UNEF	1,0 Nm	6,0 Nm
7/16" - 28 UNEF	1,0 Nm	6,0 Nm
1/2" - 28 UNEF	1,5 Nm	8,0 Nm
9/16" - 24 UNEF	1,5 Nm	8,0 Nm
5/8" - 24 UNEF	1,5 Nm	8,0 Nm
11/16" - 24 UNEF	3,0 Nm	10,0 Nm
3/4" - 20 UNEF	3,0 Nm	10,0 Nm
13/16" - 20 UNEF	6,0 Nm	12,0 Nm
7/8" - 20 UNEF	6,0 Nm	12,0 Nm
15/16" - 20 UNEF	6,0 Nm	12,0 Nm
1" - 20 UNEF	8,0 Nm	12,0 Nm
1-1/16" - 18 UNEF	8,0 Nm	12,0 Nm
1-1/8" - 18 UNEF	8,0 Nm	12,0 Nm
1-3/16" - 18 UNEF	8,0 Nm	12,0 Nm
1-1/4" - 18 UNEF	8,0 Nm	12,0 Nm
1-5/16" - 18 UNEF	10,0 Nm	18,0 Nm
1-3/8" - 18 UNEF	10,0 Nm	18,0 Nm
1-7/16" - 18 UNEF	10,0 Nm	18,0 Nm
1-1/2" - 18 UNEF	10,0 Nm	18,0 Nm
1-9/16" - 18 UNEF	10,0 Nm	18,0 Nm
1-5/8" - 18 UNEF	13,0 Nm	18,0 Nm
1-11/16" - 18 UNEF	13,0 Nm	18,0 Nm
1-3/4" - 18 UNS	13,0 Nm	18,0 Nm
2" - 18 UNS	15,0 Nm	20,0 Nm
2-1/4" - 16 UNS	15,0 Nm	20,0 Nm
2-1/2" - 16 UNS	16,0 Nm	20,0 Nm

锁紧扭矩, 单位 in-lbf <i>Tightening torque in in-lbf</i>		
螺纹尺寸 / Thread	塑料螺纹 / Plastic	金属螺纹 / Nickel plated brass
M12	13,3 in-lbf	62,0 in-lbf
M16	26,6 in-lbf	70,8 in-lbf
M20	44,3 in-lbf	88,5 in-lbf
M25	62,0 in-lbf	97,4 in-lbf
M32	79,7 in-lbf	115,1 in-lbf
M40	97,4 in-lbf	132,8 in-lbf
M50	106,2 in-lbf	132,8 in-lbf
M63	106,2 in-lbf	132,8 in-lbf

PG07	13,3 in-lb	44,3 in-lbf
PG09	17,7 in-lb	53,1 in-lbf
PG11	22,1 in-lb	53,1 in-lbf
PG13	26,6 in-lb	53,1 in-lbf
PG16	44,3 in-lb	62,0 in-lbf
PG21	62,0 in-lb	88,5 in-lbf
PG29	79,7 in-lb	88,5 in-lbf
PG36	97,4 in-lb	132,8 in-lbf

1/4" - 32 UNEF	8,9 in-lbf	53,1 in-lbf
5/16" - 32 UNEF	8,9 in-lbf	53,1 in-lbf
3/8" - 32 UNEF	8,9 in-lbf	53,1 in-lbf
7/16" - 28 UNEF	8,9 in-lbf	53,1 in-lbf
1/2" - 28 UNEF	13,3 in-lbf	70,8 in-lbf
9/16" - 24 UNEF	13,3 in-lbf	70,8 in-lbf
5/8" - 24 UNEF	13,3 in-lbf	70,8 in-lbf
11/16" - 24 UNEF	26,6 in-lbf	88,5 in-lbf
3/4" - 20 UNEF	26,6 in-lbf	88,5 in-lbf
13/16" - 20 UNEF	53,1 in-lbf	106,2 in-lbf
7/8" - 20 UNEF	53,1 in-lbf	106,2 in-lbf
15/16" - 20 UNEF	53,1 in-lbf	106,2 in-lbf
1" - 20 UNEF	70,8 in-lbf	106,2 in-lbf
1-1/16" - 18 UNEF	70,8 in-lbf	106,2 in-lbf
1-1/8" - 18 UNEF	70,8 in-lbf	106,2 in-lbf
1-3/16" - 18 UNEF	70,8 in-lbf	106,2 in-lbf
1-1/4" - 18 UNEF	70,8 in-lbf	106,2 in-lbf
1-5/16" - 18 UNEF	88,5 in-lbf	159,3 in-lbf
1-3/8" - 18 UNEF	88,5 in-lbf	159,3 in-lbf
1-7/16" - 18 UNEF	88,5 in-lbf	159,3 in-lbf
1-1/2" - 18 UNEF	88,5 in-lbf	159,3 in-lbf
1-9/16" - 18 UNEF	88,5 in-lbf	159,3 in-lbf
1-5/8" - 18 UNEF	115,1 in-lbf	159,3 in-lbf
1-11/16" - 18 UNEF	115,1 in-lbf	159,3 in-lbf
1-3/4" - 18 UNS	115,1 in-lbf	159,3 in-lbf
2" - 18 UNS	132,8 in-lbf	177,0 in-lbf
2-1/4" - 16 UNS	132,8 in-lbf	177,0 in-lbf
2-1/2" - 16 UNS	141,6 in-lbf	177,0 in-lbf