MM LINE

cmatic®
PNEUMATIC FITTINGS

英制/NPT 80bar雾化用快插接头
Misting Push-in Fittings, 80 bar Inch/NPT

MM是全新雾化用接头系列。
Cmatic将所有经验和专业知识用于高压接头领域，由此创造性的开发了新的用途，用于产生喷雾。
加压至70 bar的水从特殊喷嘴中流出，形成拥有数以百万计水滴的超细雾，在特定区域周围形成水雾效果。这项技术可以节省大量能源且无污染，能够在工业和非工业环境中进行气味控制、除尘、内部和外部环境降温以及加湿。

MM is our new line of misting Fittings.
Cmatic are now using all their know-how and experience in high pressure connections for a completely new purpose. To create "Misting".
Water at 70 bar pressure is channelled through hoses and sprayed through nozzles as millions of very fine mist drops, creating that way a refreshing effect all around a specific area.
Misting, as a cost effective, energy saving and non polluting technique is used both in industrial and commercial fields to control odours and humidity, to set dusts, to cool down indoor and outdoor temperatures.

MM

1	2	3
本体 Body	卡爪 Gripping Collet	密封圈 Seals
镀镍黄铜UNI EN 12164 CW614N - UNI EN 12165 CW617N Brass UNI EN 12164 CW614N - UNI EN 12165 CW617N Nickel Plated	UNI EN 12164 CW614N镀镍黄铜 Brass UNI EN 12164 CW614N Nickel Plated	NBR NBR

-20°C - 80°C

最大80 bar

	1/4 NPTF	3/8 NPTF
1/4	●	
3/8	●	●

技术规格

建议的连接管路：
PA12 HR
可接受的管路公差：
+/– 0.07 mm，最大直径Ø 3/8”

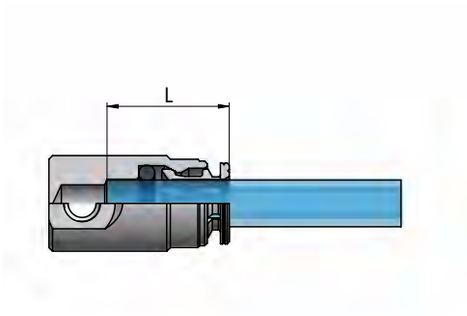
应用领域：
雾化设备

DATA SHEET

Recommended tubings:
PA12 HR
Acceptable Tolerances on the tubings:
+/– 0,07 mm up to Ø 3/8”

Application fields:
Misting circuits

管路插入深度 Tubing insertion depth



管径Øe	L
1/4	17
3/8	18.5

安装说明

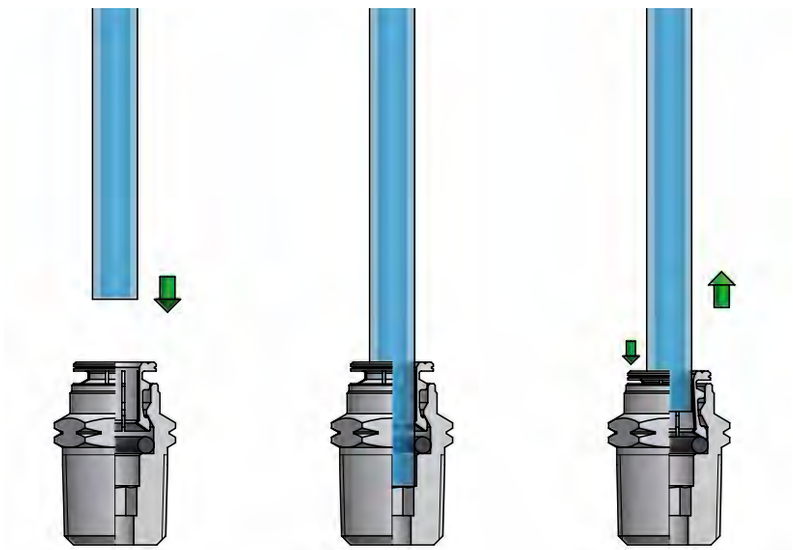
1.沿管路垂直切割（使用TCUT管路切刀),确认内外管壁没有毛刺，同时注意避免管路截面呈椭圆形。
2.将管路插入接头，到底为止。

拔出管路:
垂直按压释放环，同时拔出管路即可。

ASSEMBLY INSTRUCTIONS

1. Cut the tube square (by means of a hose cutter i.e. our TCUT) making sure that no burrs are left and that the tube is not oval.
2. Insert the tube into the fitting until it bottoms.

Tube release
While pressing on the release ring, pull out the tube from the fitting.



完成连接后，请确保管路上不承受外力；此外，请确保管路连接的最小弯曲半径符合本样册第335页之规定。

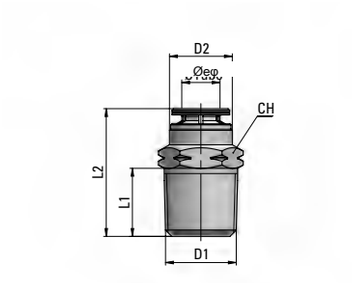
为了避免管路意外松脱，任何物体均不要接触释放环。作用在释放环上任何外力，包括侧向力，均可能导致管路意外松脱。
螺纹拧紧时，请参考第六页列出的建议扭矩。

Once the tubing is connected to the fitting, make sure that the tubing is not subject to any tensile strength and that the min. recommended bending radius stated in the tubing section of this catalogue is complied with (see page 333).
To prevent any accidental tube release, no components have to come in touch with the release ring and exercise any unwanted pressure on the same. Indeed however lateral, any load on the release ring may cause the tube disconnection.
To tighten threads, please check out our tightening torque chart illustrated at page 6.

MM 11

锥螺纹直管接头

Taper Straight, male

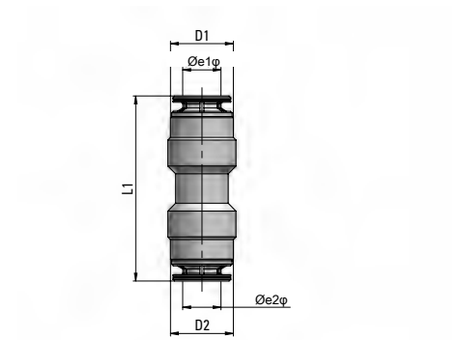


类型	管径Øe	D1 NPT	D2	L1	L2	CH	g ⚖
11 1/4 1/4	**1/4**	**1/4**	12	13	24.5	14	16.5
11 3/8 1/4	**3/8**	**1/4**	16	13	29.5	16	19.5
11 3/8 3/8	**3/8**	**3/8**	16	13	28.5	18	30.1

MM 26

对接接头

Union

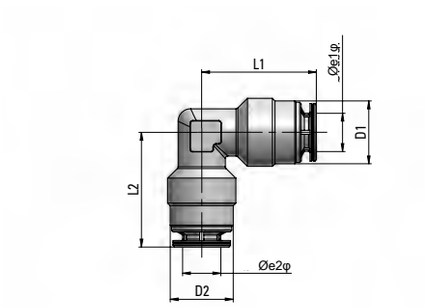


类型	管径1Øe	管径2Øe	D1	D2	L1	g ⚖
26 1/4 1/4	**1/4**	**1/4**	12	12	35.5	17
26 1/4 3/8	**1/4**	**3/8**	12	16	38	24.1
26 3/8 3/8	**3/8**	**3/8**	16	16	39.6	26.8

MM 28

直角对接接头

Union Elbow

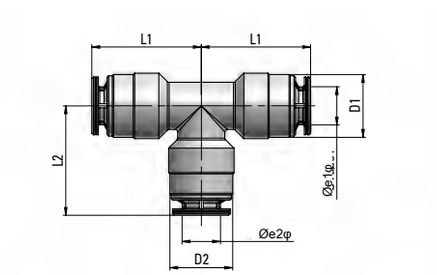


类型	管径1Øe	管径2Øe	D1	D2	L1	L2	g ⚖
28 1/4 1/4	**1/4**	**1/4**	12	12	22	22	18
28 3/8 3/8	**3/8**	**3/8**	16	16	26	26	33.7

MM 29

正T型三通接头

Union Tee

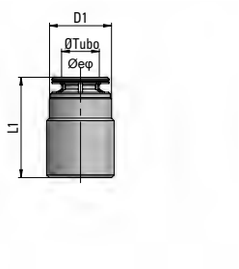


类型	管径1Øe	管径2Øe	D1	D2	L1	L2	g ⚖
29 1/4 1/4	**1/4**	**1/4**	12	12	21	21	23.6
29 3/8 3/8	**3/8**	**3/8**	16	16	25.5	25.5	47.4

MM 40

终端接头

Terminal

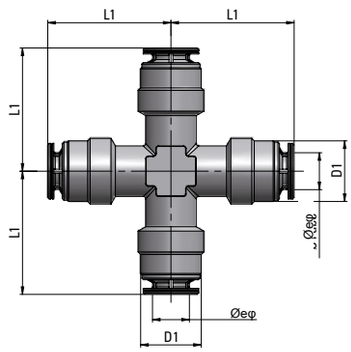


类型	管径Øe	D1	L1	g
40 00 1/4	**1/4**	12	19.5	11.9
40 00 3/8	**3/8**	16	22	19.8

MM 46

十字型接头

Cross Fitting

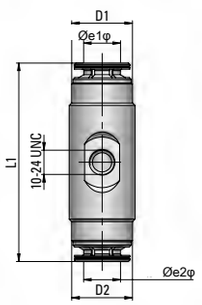


类型	管径Øe	D1	L1	g
46 1/4 1/4	**1/4**	12	24.5	41.6
46 3/8 3/8	**3/8**	16	30	70.7

MM 60

带喷嘴的对接接头

Union with Nozzle Port

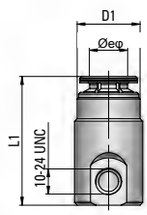


类型	管径1Øe	管径2Øe	D1	D2	L1	g
60 1/4 1/4	**1/4**	**1/4**	12	12	36.5	23.2
60 3/8 3/8	**3/8**	**3/8**	16	16	41.5	38.6

MM 61

带喷嘴的终端接头

Terminal with Nozzle Port



类型	管径Øe	D1	L1	g
61 00 1/4	**1/4**	12	24.5	15.8
61 00 3/8	**3/8**	16	27	25.4

喷嘴

Nozzle

类型	D1 UNC	D2	g ⚖
99 10-24 ø0.15	10-24	0.15	9.9
99 10-24 ø0.20	10-24	0.20	9.9
99 10-24 ø0.30	10-24	0.30	9.9
99 10-24 ø0.40	10-24	0.40	9.9

贲嘴孔径为0.15和0.20，通常用于冷却（民用和畜牧业领域），喷嘴孔径为0.30和0.40，主要用于除尘、除味和加湿。

The Nozzles with hole 0.15 and 0.20 are generally used for cooling purposes (both in civil and in animal applications), while 0.30 and 0.40 are used primarily for dust, odors suppression and for moisturizing.

在压强变化时不同孔径下的水流量

Water flow rate per Nozzle size and water pressure

孔径 单位mm	35 bar 500 psi	45 bar 640 psi	**70 bar** **1000 psi**	84 bar 1200 psi	
0.15	0.0330 0.0087	0.0380 0.0100	**0.0460** **0.0122**	0.0510 0.0133	L/min USGpm
0.2	0.0568 0.0153	0.0643 0.0175	**0.0787** **0.0208**	0.0980 0.0258	L/min USGpm
0.3	0.0790 0.0205	0.0867 0.0235	**0.1080** **0.0290**	0.1590 0.0420	L/min USGpm
0.4	0.1048 0.0282	0.1190 0.0322	**0.1483** **0.0398**	0.1950 0.0515	L/min USGpm