



● **WS系列 WS Series**

型号 Part number system



● 注: 连接器根据接触对数量, 其每一对的额定电流按下表规定的下降计算。

Remarks: The rated current decreases according to the number of contacts, more contacts, less rated current.

| 接触对芯数 Number of contact | 1~3 | 4~10 | 11~20 | 21~30 | 31~40 | 41~50 | 51~61 |
|--|-----|------|-------|-------|-------|-------|-------|
| 下降率 (%) Rated current decrease rate | 0 | 10 | 20 | 30 | 40 | 50 | 60 |

★ 焊接芯件参数表见97-98页

Solder contact spec see page 97-98

★ 接触件可以是插针或插孔

Each side can be male or female contact

★ 压接芯件参数表见99-102页

Crimp contact spec see page 99-102

材料和技术参数 Material and spec

| | |
|---------------------------|--|
| 接插方式 Coupling | 螺纹连接 Threaded |
| 外壳材料 Shell material | 锌合金(镀铬) Zinc alloy with chrome plating |
| 绝缘体 Insert material | 热塑塑料PPS, 耐高温260℃ PPS, max temperature 260 °C |
| 接触件材料 Contact material | 铜(镀金) Brass with gold plating |
| 接线方式 Termination | 焊接: $\phi 1$ 、 $\phi 2.5$ 、 $\phi 3.5$ 、 $\phi 5.5$ mm; 螺丝压接: $\phi 2.5$ 、 $\phi 3$ 、 $\phi 3.5$ mm; 压接: $\phi 1$ 、 $\phi 1.5$ 、 $\phi 2.5$ 、 $\phi 3.5$ 、 $\phi 5.5$ 、 $\phi 10$ mm Solder: $\phi 1$ 、 $\phi 2.5$ 、 $\phi 3.5$ 、 $\phi 5.5$ mm; Screw: $\phi 2.5$ 、 $\phi 3$ 、 $\phi 3.5$ mm; Crimp: $\phi 1$ 、 $\phi 1.5$ 、 $\phi 2.5$ 、 $\phi 3.5$ 、 $\phi 5.5$ 、 $\phi 10$ mm |
| 接插次数 Mating cycle | 500 |
| 温度范围 Temperature range | -40℃ ~ +85℃ |

WS系列配套表 WS Series Mating diagram

◆ 方形法兰插座
Square flange receptacle



Z

◆ 后螺母插座
Round flange receptacle



ZM

◆ 前螺母插座
Front-nut-mount receptacle



ZMQ

◆ 2孔法兰插座
2-hole flange receptacle with cap



ZG

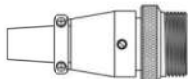
◆ 直式对接双压板电缆插座
In-line receptacle with cable clamping plates



ZYB

ZY

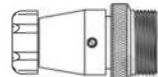
◆ 直式对接电缆护套插座
In-line receptacle with PVC sleeve



ZQB

ZQ

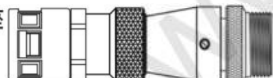
◆ 直式对接金属软管插座
In-line receptacle for metal hose



ZPB

ZP

◆ 直式对接塑料软管插座
In-line receptacle for plastic-hose



ZDB

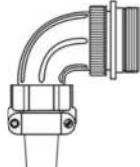
ZD

◆ 弯式对接金属软管插座
In-line receptacle with angled back shell for metal-hose



ZR

◆ 弯式对接双压板电缆插座
In-line receptacle with angled back shell and cable clamping plates



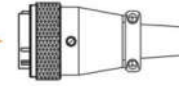
ZS

◆ 弯式对接塑料软管插座
In-line receptacle with angled back shell for plastic-hose



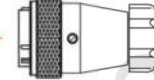
ZC

TQ



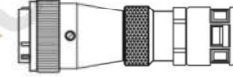
◆ 直式电缆护套插头
Plug with PVC sleeve

TP



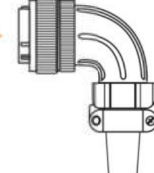
◆ 直式金属软管插头
Plug for metal-hose

TD



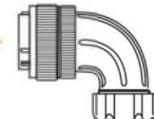
◆ 直式塑料软管插头
Plug for plastic-hose

TS



◆ 弯式双压板电缆插头
Plug with angled back shell and cable clamping plates

TR



◆ 弯式金属软管插头
Plug with angled back shell for metal-hose

TC



◆ 弯式塑料软管插头
Plug with angled back shell for plastic-hose



◆ 插座塑料防尘盖
Plastic receptacle cap

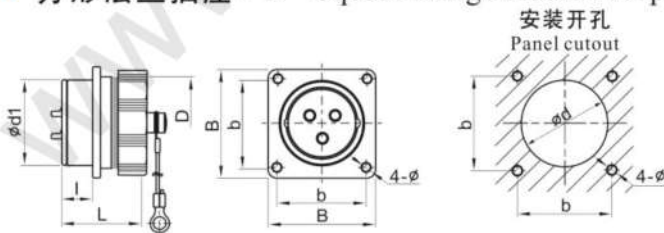
★ 接触件可以是插针或插孔
Each side can be male or female contact

★ 焊接芯件参数表见97-98页
Solder contact spec see page 97-98

★ 压接芯件参数表见99-102页
Crimp contact spec see page 99-102

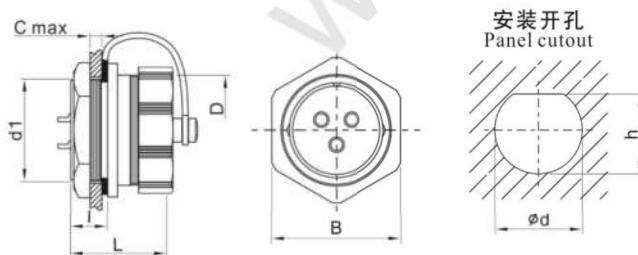


● 方形法兰插座: Z Square flange mount receptacle: Z



| 尺寸 Dimension(mm) | WS16 | WS20 | WS24 | WS28 | WS32 | WS40 | WS48 | WS55 |
|---------------------|-------|-------|-------|-------|---------|---------|---------|---------|
| $\phi d1$ | 15.8 | 19.8 | 23.8 | 27.8 | 31.8 | 39.8 | 47.8 | 54.8 |
| D | M18X1 | M22X1 | M26X1 | M30X1 | M35X1.5 | M44X1.5 | M52X1.5 | M59X1.5 |
| l | 9.7 | 9.8 | 10 | 9.8 | 14.4 | 14.2 | 14.2 | 14 |
| L | 21.6 | 23 | 23 | 23 | 34 | 34 | 34 | 34 |
| b | 20 | 22 | 26 | 30 | 32 | 40 | 48 | 52 |
| B | 26 | 29 | 32 | 36 | 42 | 50 | 58 | 64 |
| ϕd | 16.5 | 20.5 | 24.5 | 28.5 | 32.5 | 40.5 | 48.5 | 55.5 |
| ϕ | 3.2 | 3.2 | 3.2 | 3.2 | 3.5 | 4.5 | 4.5 | 4.5 |

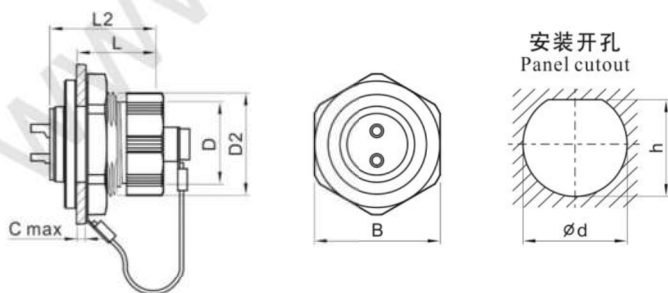
● 后螺母插座: ZM Round flange receptacle: ZM



| 尺寸 Dimension(mm) | WS16 | WS20 | WS24 | WS28 |
|---------------------|-------|-------|-------|-------|
| $d1$ | M16X1 | M20X1 | M24X1 | M28X1 |
| D | M18X1 | M22X1 | M26X1 | M30X1 |
| C | 5 | 5 | 5 | 5 |
| l | 9.7 | 9.9 | 10 | 10.2 |
| L | 22 | 23 | 23 | 23 |
| B | 21.2 | 25.5 | 29.2 | 33.3 |
| ϕd | 15.7 | 19.7 | 23.9 | 27.7 |
| h | 15.3 | 19.3 | 23.2 | 26.9 |

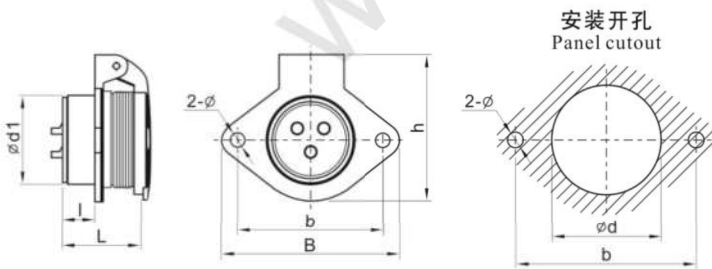


● 前螺母插座: ZMQ IP67 Front-nut-mount receptacle: ZMQ IP67



| 尺寸 Dimension(mm) | WS16 | WS20 | WS24 | WS28 |
|---------------------|-------|-------|-------|-------|
| ϕD | M18X1 | M22X1 | M26X1 | M30X1 |
| D2 | M22X1 | M26X1 | M30X1 | M34X1 |
| L | 16 | 17 | 17 | 17 |
| L2 | 21.6 | 23 | 23 | 23 |
| C | 5 | 5 | 5 | 5 |
| B | 26.8 | 30.8 | 34.8 | 38.8 |
| ϕd | 22 | 26 | 30 | 34 |
| h | 20.6 | 24.6 | 28.6 | 32.6 |

● 2孔法兰插座: ZG 2-hole flange receptacle with cap: ZG



| 尺寸 Dimension(mm) | WS16 | WS20 | WS24 | WS28 | WS32 | WS40 | WS48 | WS55 |
|---------------------|------|------|------|------|------|------|------|------|
| $\phi d1$ | 15.8 | 19.8 | 23.8 | 27.8 | 31.8 | 39.8 | 47.8 | 54.8 |
| l | 10 | 10 | 10 | 10 | 15.4 | 14.7 | 14.3 | 14 |
| L | 22 | 23 | 23 | 23 | 34 | 34 | 34 | 34 |
| b | 30 | 35 | 40 | 45 | 55 | 65 | 80 | 85 |
| B | 38 | 44 | 50 | 55 | 67 | 77 | 92 | 98 |
| h | 32.5 | 36.5 | 40.5 | 45.5 | 52.5 | 63.5 | 74.5 | 80 |
| ϕd | 16.5 | 20.5 | 24.5 | 28.5 | 32.5 | 40.5 | 48.5 | 55.5 |
| ϕ | 3.5 | 4.5 | 4.5 | 4.5 | 5.5 | 5.5 | 5.5 | 6.5 |



● 直式对接电缆护套插座B: ZQB In-line receptacle with PVC sleeve B: ZQB



| 尺寸 Dimension(mm) | WS16 | WS20 | WS24 | WS28 |
|---------------------|-------|-------|-------|-------|
| D | M18X1 | M22X1 | M26X1 | M30X1 |
| L | 44.3 | 48.3 | 53.5 | 56 |
| ød max | 10 | 11.6 | 12.4 | 15.7 |

护盖可订购尺寸见P93 Optional cap size see P93

● 直式对接电缆护套插座: ZQ In-line receptacle with PVC sleeve: ZQ



| 尺寸 Dimension(mm) | WS32 | WS40 | WS48 | WS55 |
|---------------------|---------|---------|---------|---------|
| D | M35X1.5 | M44X1.5 | M52X1.5 | M59X1.5 |
| L | 70 | 77 | 85 | 97 |
| ød max | 19.5 | 24 | 24 | 30 |

护盖可订购尺寸见P93 Optional cap size see P93

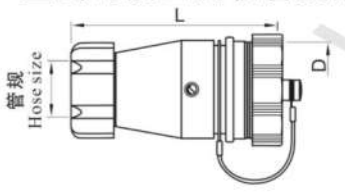
● 直式对接金属软管插座B: ZPB In-line receptacle for metal-hose B: ZPB



| 尺寸 Dimension(mm) | WS16 | WS20 | WS24 | WS28 |
|---------------------|-------|-------|-------|-------|
| D | M18X1 | M22X1 | M26X1 | M30X1 |
| L | 49.5 | 58 | 62 | 65 |
| 管规 Hose size | 1/4" | 3/8" | 3/8" | 1/2" |

护盖可订购尺寸见第93页 Optional cap size see P93

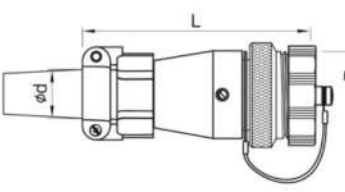
● 直式对接金属软管插座: ZP In-line receptacle for metal-hose: ZP



| 尺寸 Dimension(mm) | WS32 | WS40 | WS48 | WS55 |
|---------------------|---------|---------|--------------------------|---------|
| D | M35X1.5 | M44X1.5 | M52X1.5 | M59X1.5 |
| L | 75 | 99 | 103 | 106 |
| 管规 Hose size | 3/4" | 1" | I: 1" (不标) II: 1 1/4" | 1 1/4" |

护盖可订购尺寸见第93页 Optional cap size see P93

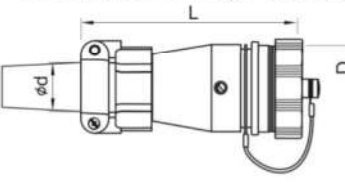
● 直式对接双压板电缆插座B: ZYB In-line receptacle with cable clamping plates B: ZYB



| 尺寸 Dimension(mm) | WS16 | WS20 | WS24 | WS28 |
|---------------------|-------|-------|-------|-------|
| D | M18X1 | M22X1 | M26X1 | M30X1 |
| L | 48.5 | 54.5 | 55.5 | 65.3 |
| ød max | 10 | 13 | 13 | 17 |

护盖可订购尺寸见第93页 Optional cap size see P93
电缆护套尺寸见第93页 PVC sleeve dimension see P93

● 直式对接双压板电缆插座: ZY In-line receptacle with cable clamping plates: ZY

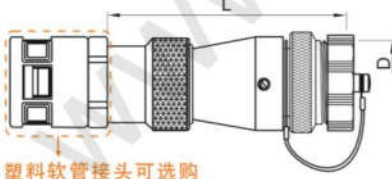


| 尺寸 Dimension(mm) | WS32 | WS40 | WS48 | WS55 |
|---------------------|---------|---------|----------------------|---------|
| D | M35X1.5 | M44X1.5 | M52X1.5 | M59X1.5 |
| L | 89.2 | 94.8 | 101.8 | 124.7 |
| ød max | 19 | 23 | I: 23 (不标) II: 31 | 31 |

护盖可订购尺寸见第93页 Optional cap size see P93
电缆护套尺寸见第93页 PVC sleeve dimension see P93



● 直式对接塑料软管插座B: ZDB In-line receptacle for plastic-hose B: ZDB

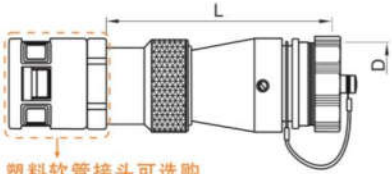


塑料软管接头可选购
Optional plastic hose adapter

| 尺寸 Dimension(mm) | WS16 | WS20 | WS24 | WS28 |
|----------------------|-------|-------|-------|-------|
| D | M18X1 | M22X1 | M26X1 | M30X1 |
| L | 55.5 | 64.5 | 69 | 75.5 |
| 接头规格 Adapter size | PG7 | PG11 | PG11 | PG16 |
| 管规 Hose size | 1/4" | 3/8" | 3/8" | 1/2" |

护盖可选购尺寸见第93页 Optional cap size see P93

● 直式对接塑料软管插座: ZD In-line receptacle for plastic-hose: ZD

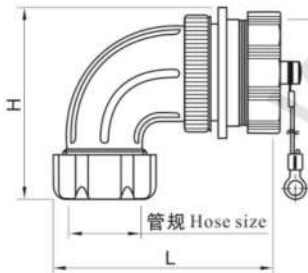


塑料软管接头可选购
Optional plastic hose adapter

| 尺寸 Dimension(mm) | WS32 | WS40 | WS48 | WS55 |
|----------------------|---------|---------|--------------------------|---------|
| D | M35X1.5 | M44X1.5 | M52X1.5 | M59X1.5 |
| L | 89.5 | 96.5 | 105 | 119.5 |
| 接头规格 Adapter size | PG21 | PG29 | I: PG29 (不标) II: PG36 | PG36 |
| 管规 Hose size | 3/4" | 1" | I: 1" (不标) II: 1 1/4" | 1 1/4" |

护盖可选购尺寸见第93页 Optional cap size see P93

● 弯式对接金属软管插座: ZR In-line receptacle with angled back shell for metal-hose: ZR



| 尺寸 Dimension(mm) | | WS20 | WS24 | WS28 | WS32 | WS40 | WS48 | WS55 |
|---------------------|---|-------|-------|-------|---------|---------|---------|---------|
| D | — | M22X1 | M26X1 | M30X1 | M35X1.5 | M44X1.5 | M52X1.5 | M59X1.5 |
| L | — | 60 | 60 | 63 | 81 | 88 | 96 | 107 |
| H | — | 48 | 51 | 52 | 58 | 70 | 82 | 90 |
| 管规 Hose size | — | 3/8" | 3/8" | 1/2" | 3/4" | 1" | 1" | 1 1/4" |

护盖可选购尺寸见第93页 Optional cap size see P93

● 弯式对接双压板电缆插座: ZS In-line receptacle with angled back shell and cable clamping plates: ZS



| 尺寸 Dimension(mm) | | WS20 | WS24 | WS28 | WS32 | WS40 | WS48 | WS55 |
|---------------------|---|-------|-------|-------|---------|---------|---------|---------|
| D | — | M22X1 | M26X1 | M30X1 | M35X1.5 | M44X1.5 | M52X1.5 | M59X1.5 |
| L | — | 60.6 | 60.4 | 64.7 | 82 | 89.2 | 96 | 114.2 |
| H | — | 54.4 | 56.8 | 64 | 72 | 83.3 | 94.5 | 112.3 |
| ød max | — | 13 | 13 | 17 | 19 | 23 | 23 | 31 |

护盖可选购尺寸见第93页 Optional cap size see P93



● 弯式对接塑料软管插座: ZC In-line receptacle with angled back shell for plastic-hose: ZC



塑料软管接头可选购
Optional plastic hose adapter

| 尺寸 Dimension(mm) | | WS20 | WS24 | WS28 | WS32 | WS40 | WS48 | WS55 |
|----------------------|---|-------|-------|-------|---------|---------|---------|---------|
| D | — | M22X1 | M26X1 | M30X1 | M35X1.5 | M44X1.5 | M52X1.5 | M59X1.5 |
| L | — | 60 | 61 | 63 | 82 | 88.5 | 95 | 112 |
| H | — | 88 | 88 | 98 | 110 | 120 | 135 | 140 |
| 接头规格 Adapter size | — | PG11 | PG11 | PG16 | PG21 | PG29 | PG29 | PG36 |
| 管规 Hose size | — | 3/8" | 3/8" | 1/2" | 3/4" | 1" | 1" | 1 1/4" |

护盖可选购尺寸见第93页 Optional cap size see P93

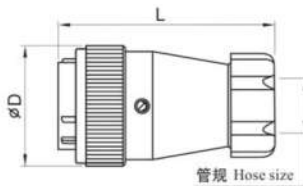
● 直式电缆护套插头: TQ Plug with PVC sleeve: TQ



| 尺寸 Dimension(mm) | WS16 | WS20 | WS24 | WS28 | WS32 | WS40 | WS48 | WS55 |
|---------------------|------|------|------|------|------|------|------|------|
| ∅D | 21.5 | 26.4 | 29.8 | 34 | 39.3 | 49.3 | 57.2 | 64.5 |
| L | 44 | 49.5 | 53.5 | 56 | 70 | 75.5 | 85.5 | 97 |
| ∅d max | 10 | 11.6 | 12.4 | 16 | 19.5 | 24 | 24 | 30 |

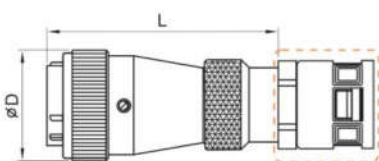
电缆护套尺寸见第93页 PVC sleeve dimension see P93

● 直式金属软管插头: TP Plug for metal-hose: TP



| 尺寸 Dimension(mm) | WS16 | WS20 | WS24 | WS28 | WS32 | WS40 | WS48 | WS55 |
|---------------------|------|------|------|------|------|------|-------------------------|--------|
| ∅D1 | 21.5 | 26.4 | 29.8 | 34 | 39.3 | 49.3 | 57.2 | 64.5 |
| L | 48 | 57 | 58 | 61 | 74 | 82 | 90 | 100 |
| 管规 Hose size | 1/4" | 3/8" | 3/8" | 1/2" | 3/4" | 1" | I: 1"(不标) II: 1 1/4" | 1 1/4" |

● 直式塑料软管插头: TD Plug for plastic-hose: TD

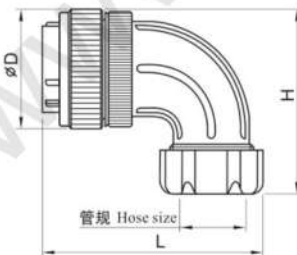


塑料软管接头可选购
Optional plastic hose adapter

| 尺寸 Dimension(mm) | WS16 | WS20 | WS24 | WS28 | WS32 | WS40 | WS48 | WS55 |
|----------------------|------|------|------|------|------|------|-------------------------|--------|
| ∅D | 21.5 | 26 | 30 | 34 | 39.3 | 49.3 | 57.2 | 64.5 |
| L | 56 | 64.5 | 68.5 | 75 | 88.5 | 95.5 | 105 | 119 |
| 接头规格 Adapter size | PG7 | PG11 | PG11 | PG16 | PG21 | PG29 | I: PG29(不标) II: PG36 | PG36 |
| 管规 Hose size | 1/4" | 3/8" | 3/8" | 1/2" | 3/4" | 1" | I: 1"(不标) II: 1 1/4" | 1 1/4" |

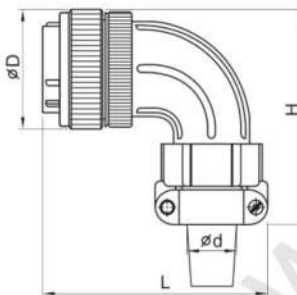


● 弯式金属软管插头: TR Plug with angled back shell for metal-hose: TR



| 尺寸 Dimension(mm) | | WS20 | WS24 | WS28 | WS32 | WS40 | WS48 | WS55 |
|---------------------|---|------|------|------|------|------|------|--------|
| øD | — | 25.6 | 30 | 33.8 | 38.2 | 49.3 | 55.8 | 63 |
| H | — | 48 | 51 | 52 | 58 | 70 | 82 | 90 |
| L | — | 60 | 60 | 63 | 81 | 88 | 96 | 107 |
| 管规 Hose size | — | 3/8" | 3/8" | 1/2" | 3/4" | 1" | 1" | 1 1/4" |

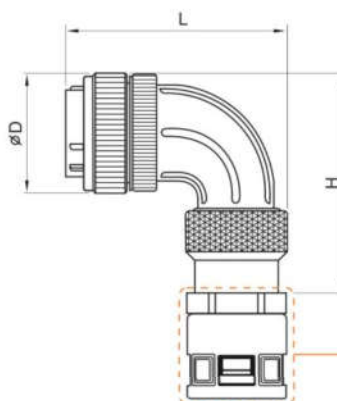
● 弯式双压板电缆插头: TS Plug with angled back shell with cable clamping plates: TS



| 尺寸 Dimension(mm) | | WS20 | WS24 | WS28 | WS32 | WS40 | WS48 | WS55 |
|---------------------|---|------|------|------|------|------|------|------|
| øD | — | 27.3 | 30 | 33.8 | 38.2 | 49.3 | 55.8 | 63 |
| H | — | 53 | 57 | 61 | 66 | 78 | 91 | 100 |
| L | — | 60 | 61 | 64 | 80 | 88 | 96 | 107 |
| ød max | — | 11.6 | 12.4 | 15.7 | 19.5 | 24 | 24 | 30 |

电缆护套尺寸见第93页 PVC sleeve dimension see P93

● 弯式塑料软管插头: TC Plug with right angle back shell for plastic-hose: TC



| 尺寸 Dimension(mm) | | WS20 | WS24 | WS28 | WS32 | WS40 | WS48 | WS55 |
|----------------------|---|------|------|------|------|------|------|--------|
| øD | — | 27.5 | 31 | 35 | 39 | 49.3 | 57 | 65 |
| H | — | 57 | 62 | 65 | 71.5 | 82 | 96 | 107 |
| L | — | 59.5 | 60 | 63 | 80.5 | 88 | 94 | 112 |
| 接头规格 Adapter size | — | PG11 | PG11 | PG16 | PG21 | PG29 | PG29 | PG36 |
| 管规 Hose size | — | 3/8" | 3/8" | 1/2" | 3/4" | 1" | 1" | 1 1/4" |

Optional plastic hose adapter
塑料软管接头可选购

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