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JPE

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VMS METAL GASKET  
FACE SEAL FITTINGS  
VMS 金屬墊片面密封接頭

本體 Body

|                                                                    |                   |
|--------------------------------------------------------------------|-------------------|
| VMS 外螺紋直通接頭<br>VMS MALE CONNECTOR                                  | VMS-(MR/MN) /12   |
| VMS 外螺紋直通接頭 SAE 螺紋 O 型圈密封<br>VMS MALE CONNECTOR SAE THREAD         | VMS-MSAE / 12     |
| VMS 外螺紋內牙直通接頭<br>VMS MALE CONNECTOR FEMALE THREAD                  | VMS-(FR/FN) / 13  |
| VMS 卡套連接直通接頭<br>VMS MALE CONNECTOR TUBE END                        | VMS-J /13         |
| VMS 外螺紋直通接頭穿板卡套式<br>VMS MALE CONNECTOR BULKHEAD TUBE END           | VMS-BJ /14        |
| VMS 直通由任活接頭<br>VMS EQUAL UNION                                     | VMS-U /14         |
| 異徑 VMS 直通由任接頭<br>VMS REDUCING UNION                                | VMS-RU / 15       |
| VMS 穿板直通由任接頭<br>VMS BULKHEAD UNION                                 | VMS-BU / 15       |
| VMS 穿板外螺紋接頭對焊式<br>VMS BULKHEAD MALE CONNECTOR BUTT WELD            | VMSB-TB / 16      |
| VMS 由任內牙螺母<br>VMS COUPLING                                         | VMS-CG / 16       |
| 異徑 VMS 內牙螺母<br>VMS FEMALE REDUCING UNION                           | VMS-DF / 17       |
| VMS 外螺紋直通接頭 /VMS 內螺紋式<br>VMS MALE CONNECTOR / VMS REDUCING BUSHING | VMS-F /17         |
| VMS 外螺紋外牙彎頭<br>VMS MALE ELBOW                                      | VMSE-(MR/MN) / 18 |
| VMS 由任彎頭<br>VMS UNION ELBOW                                        | VMS-UE / 18       |
| VMS 由任三通<br>VMS UNION TEE                                          | VMS-UT / 19       |
| VMS 由任四通<br>VMS UNION CROSS                                        | VMS-UCR / 19      |

焊接組件 WELDED ASSEMBLY

|                                                     |                   |
|-----------------------------------------------------|-------------------|
| VMS 內螺紋外牙直通接頭<br>VMS FEMALE CONNECTOR MALE THREAD   | VMSF-(MR/MN) / 20 |
| VMS 內螺紋內牙直通接頭<br>VMS FEMALE CONNECTOR FEMALE THREAD | VMSF-(FR/FN) / 20 |
| VMS 內螺紋卡套直通接頭<br>VMS FEMALE CONNECTOR TUBE END      | VMSF-J / 21       |
| VMS 內螺紋由任接頭<br>VMS FEMALE EQUAL UNION               | VMSF-U / 21       |

接管 GLAND

|                                                    |                  |
|----------------------------------------------------|------------------|
| VMS 短管對焊焊芯<br>VMS SHORT TUBE BUTT WELD             | VMS-HXBW S / 25  |
| VMS 長管對焊焊芯<br>VMS LONG TUBE BUTT WELD              | VMS-HXBW L / 25  |
| VMS 自動短管對焊焊芯<br>VMS SHORT AUTOMATIC TUBE BUTT WELD | VMS-HXBW SA / 26 |
| VMS 自動長管對焊焊芯<br>VMS LONG AUTOMATIC TUBE BUTT WELD  | VMS-HXBW LA / 26 |
| VMS 套焊焊芯<br>VMS SOCKET WELD                        | VMS-HXSW / 27    |
| VMS 短管套焊焊芯<br>VMS SHORT TUBE SOCKET WELD           | VMS-HXSW S / 27  |
| VMS 外焊焊芯<br>VMS MALE WELD                          | VMS-HXMW / 28    |
| VMS 尾管<br>VMS TUBE ADAPTER                         | VMS-HXTA / 28    |
| VMS 盲孔接管<br>VMS BLIND GLAND                        | VMS-BLG / 29     |

高流量 HIGH-FLOW

|                                                                       |                       |
|-----------------------------------------------------------------------|-----------------------|
| 高流量 VMS 對焊焊芯<br>HIGH-FLOW VMS BUTT WELD                               | <b>HVMS-HXBW / 32</b> |
| 高流量 VMS 外螺紋對焊焊芯<br>HIGH-FLOW VMS MALE BUTT WELD                       | <b>HVMS-TB/ 32</b>    |
| 高流量 VMS 外螺紋自動對焊焊芯<br>HIGH-FLOW VMS MALE AUTOMATIC TUBE BUTT WELD      | <b>HVMS-TBMA / 33</b> |
| 高流量 VMS 穿板外螺紋接頭對焊式<br>HIGH-FLOW VMS BULKHEAD MALE CONNECTOR BUTT WELD | <b>HVMS-TB / 33</b>   |
| 高流量 VMS 由任彎頭<br>HIGH-FLOW VMS UNION ELBOW                             | <b>VMS-N MS / 23</b>  |
| 高流量 VMS 由任三通<br>HIGH-FLOW VMS UNION TEE                               | <b>HVMS-UT / 23</b>   |
| 高流量 VMS 內牙螺母<br>HIGH-FLOW VMS FEMALE NUT                              | <b>HVSM-N F / 24</b>  |
| 高流量 VMS 外牙螺母<br>HIGH-FLOW VMS MALE NUT                                | <b>HVSM-N M / 24</b>  |

螺母 / 堵頭 NUT、CAP、PLUG

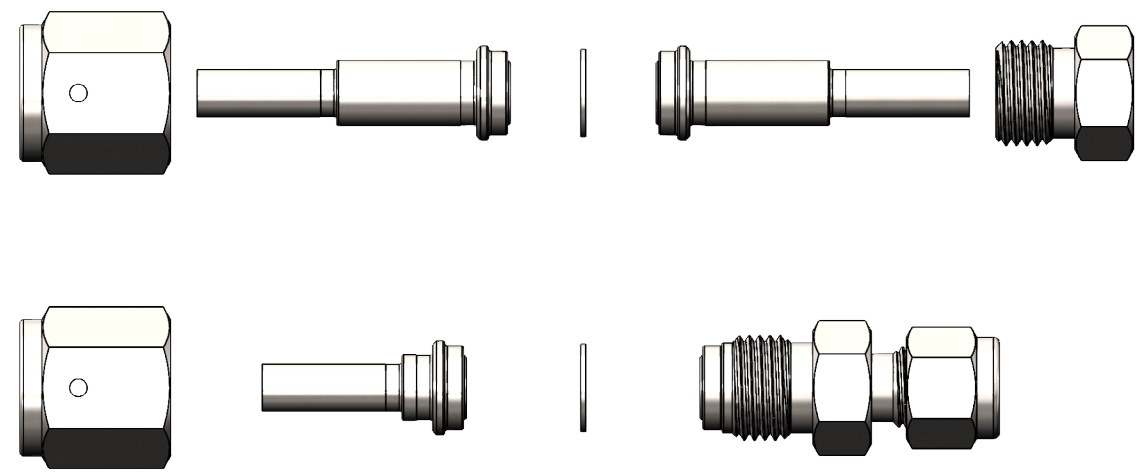
|                                 |                      |
|---------------------------------|----------------------|
| VMS 銅管堵頭<br>VMS CAP             | <b>VMSF-C / 26</b>   |
| VMS 堵塞頭<br>VMS PLUG             | <b>VMSF-P / 26</b>   |
| VMS 內牙螺母<br>VMS FEMALE NUT      | <b>VMS-N F / 26</b>  |
| VMS 外牙螺母<br>VMS MALE NUT        | <b>VMS-N M / 27</b>  |
| VMS 外牙短螺母<br>VMS SHORT MALE NUT | <b>VMS-N MS / 27</b> |

墊片 GASKET

|                      |                |
|----------------------|----------------|
| VMS 墊片<br>VMS GASKET | <b>GK / 30</b> |
|----------------------|----------------|

# TYPICAL COMPONENTS OF VMS

## 典型的 VMS 組件

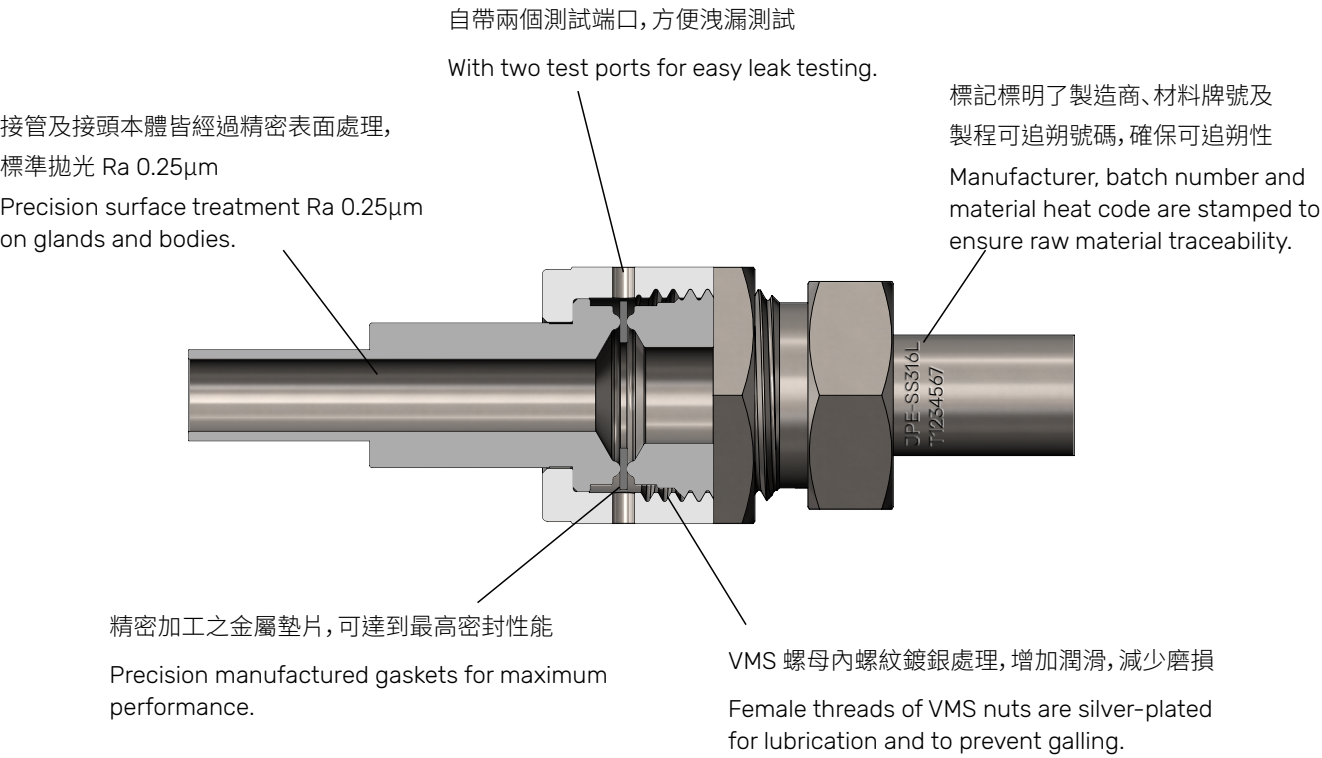


### 特徵

#### CHARACTERISTICS

JPE VMS 金屬墊片密封接頭由數個精密加工零件組成, 在外螺紋螺母或接頭本體與內螺紋螺母接合, 墊片被兩邊的凸緣壓緊迫時, VMS 組件即可完成密封。此外 JPE 可提供純淨 316L 不銹鋼, 可應用於半導體、生物化學、製藥業等高純度氣體或流體領域, 從而可在真空負壓至正壓範圍內提供無洩漏服務。

JPE VMS Vacuum Metal Seal fittings are composed of several precision manufactured parts. The seal is completed when the gasket is compressed by two beads during the engagement of a male nut or body hex and a female nut. 316L VAR stainless steel is also available for applications in semiconductor, biochemical, and pharmaceutical industries, providing leak-tight service from vacuum to positive pressure.



### 鍍層

#### PLATING

VMS 內螺紋螺帽有鍍層處理 ( 鍍銀 ), 清洗時必須避免鍍層受損, 電解拋光或鈍化可能會使鍍層脫離。如果鍍層受損或脫離, 則會發生螺紋磨損, 造成管接頭組件損壞導致洩漏風險。

VMS female nut are silver plated. Avoid cleaning processes, electropolishing, and passivation that might remove the plating. If the plating is damaged or removed, thread galling might occur, damaging fitting components and resulting in leak.

### 壓力額定值

#### PRESSURE RATINGS

所有壓力額定值計算根據 ASME B31.3 工藝管線和 ASME B31.1 電力管線規定的計算值。  
工作壓力額定值是由室溫下墊片材料確定。

All ratings comply with calculations in accordance with ASME B31.3 Process Piping and ASME31.3 Power Piping. Working pressure ratings are determined by the gasket materials at room temperature.

溫度額定值

TEMPERATURE RATINGS

| 零件<br>COMPONENTS | 材料<br>MATERIAL                        | 溫度 , °C( °F )<br>TEMPERATURE , °C( °F ) |
|------------------|---------------------------------------|-----------------------------------------|
| 接頭本體<br>FITTINGS | 316L 不鏽鋼 316L stainless steel         | 537(1000)                               |
|                  | 316L VAR 不鏽鋼 316L VAR stainless steel |                                         |
| 墊片<br>GASKET     | 316L 不鏽鋼 316L stainless steel         | 537(1000)                               |
|                  | 鎳 Nickel                              | 315(600)                                |

測試

TESTING

VMS 接頭設計已進行過氦氣洩漏測試, 在使用鍍銀墊片最大洩漏率為 4.1×10-9 mbar•l/s, 在使用無鍍銀的墊片最大洩漏率為 4.1×10-11 mbar•l/s。

The VMS fitting design has been helium tested at a maximum leak rate of 4.1×10-9 mbar•l/s with silver plated gasket, and at 4.1×10-9 mbar•l/s with unplated gasket.

清潔

CLEANING

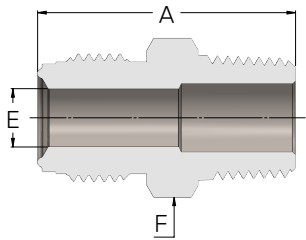
零件進行標準清潔以去除油漬、油脂和微小顆粒。若想瞭解更多資訊, 參見 JPE 標準清潔和包裝規範 (CP-23)。

Components are cleaned to remove oil, grease, and tiny particles. For more information, please see JPE standard Cleaning and Packaging (CP-23)

ORDERING INFORMATION 選型表

| BS6 -                                                                       | VMS                                          | 01-      | MN                                   | 01                                |
|-----------------------------------------------------------------------------|----------------------------------------------|----------|--------------------------------------|-----------------------------------|
| 產品大類及材質                                                                     | 產品名稱                                         | VMS 尺寸   | 連接方式                                 | 卡套尺寸 (英制) 卡套尺寸 (公制) 螺紋            |
| CLASSIFICATION & MATERIAL                                                   | PRODUCT NAME                                 | VMS SIZE | CONNECTION TYPE                      | SIZE (FRACTIONAL) (METRIC) THREAD |
| BS6:接頭類 SS316L SS316L FITTING                                               | VMS:VMS 外螺紋直通接頭 VMS MALE CONNECTOR           | 01:1/8"  | MR:外螺紋 BSPT MALE BSPT THREAD         | 01:1/8" 6:6mm 01:1/8"             |
| BS6LV: 接頭類 SS316L VAR 高純度不銹鋼 FITTING SS316L VAR HIGH PURITY STAINLESS STEEL | VMS-U:VMS 直通由任活接頭 VMS EQUAL UNION            | 02:1/4"  | MN:外螺紋 NPT MALE NPT THREAD           | 02:1/4" 8:8mm 02:1/4"             |
|                                                                             | VMS-RU:異徑 VMS 直通由任接頭 VMS REDUCING UNION      | 04:1/2"  | MSAE:SAE 螺紋 O 型圈密封 SAE THREAD O TYPE | 03:3/8" 10:10mm 03:3/8"           |
|                                                                             | VMS-BU:VMS 穿板直通由任接頭 VMS BULKHEAD UNION       | 06:3/4"  | FR:內螺紋 BSPT FEMALE BSPT THREAD       | 04:1/2" 12:12mm 04:1/2"           |
|                                                                             | VMSB:VMS 穿板外螺紋接頭 VMS BULKHEAD MALE CONNECTOR | 08:1"    | FN:內螺紋 NPT FEMALE NPT THREAD         | 06:3/4" 18:18mm 06:3/4"           |
|                                                                             | VMS-CG:VMS 由任內牙螺母 VMS COUPLING               |          | J:卡套式 JPE TUBE END                   | 08:1" 25:25mm 08:1"               |
|                                                                             | VMS-DF:異徑 VMS 內牙螺母 VMS FEMALE REDUCING UNION |          | BJ:穿板卡套式 BULKHEAD JPE TUBE END       |                                   |
|                                                                             | VMSE:VMS 外螺紋彎頭 VMS MALE ELBOW                |          | BW:對焊 BUTT WELDING                   |                                   |
|                                                                             | VMS-UE:VMS 由任彎頭 VMS UNION ELBOW              |          | F:VMS 內螺紋 VMS FEMALE THREAD          |                                   |
|                                                                             | VMS-UT:VMS 由任三通接頭 VMS UNION TEE              |          | TB: 卡套管對焊式 TUBE BUTT WELD            |                                   |
|                                                                             | VMS-UCR:VMS 由任四通 VMS UNION CROSS             |          |                                      |                                   |
|                                                                             | VMSF:VMS 內螺紋接頭 VMS FEMALE CONNECTOR          |          |                                      |                                   |
|                                                                             | VMSF-U:VMS 內螺紋由任接頭 VMS FEMALE EQUAL UNION    |          |                                      |                                   |

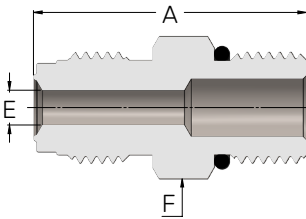
VMS-MR/MN  
VMS 外螺紋直通接頭  
VMS MALE CONNECTOR



| VMS 尺寸<br>VMS SIZE | BSPT / NPT<br>錐管螺紋尺寸<br>BSPT / NPT<br>TAPERED<br>THREAD SIZE | 編號<br>PART<br>NO. | 通孔徑<br>ORIFICE<br>E | F      | A    | 工作壓力<br>WORKING PRESSURE<br>psig(bar) |             |
|--------------------|--------------------------------------------------------------|-------------------|---------------------|--------|------|---------------------------------------|-------------|
|                    |                                                              |                   |                     |        |      | NI                                    | SS          |
| 1/8                | 1/8                                                          | VMS01-MN01        | 2.3                 | 7/16"  | 27.3 | 9000(620)                             | 9000 (620)  |
| 1/4                | 1/8                                                          | VMS02-MN01        | 4.6                 | 5/8"   | 33.4 | 9000(620)                             | 9000 (620)  |
| 1/4                | 1/4                                                          | VMS02-MN02        | 4.6                 | 5/8"   | 36.4 | 8000(551)                             | 10000 (689) |
| 1/2                | 1/4                                                          | VMS04-MN02        | 7.0                 | 15/16" | 41.1 | 3500(241)                             | 4300 (296)  |
| 1/2                | 3/8                                                          | VMS04-MN03        | 9.5                 | 15/16" | 42.1 | 3500(241)                             | 4300 (296)  |
| 1/2                | 1/2                                                          | VMS04-MN04        | 10.2                | 15/16" | 45.1 | 3500(241)                             | 4300 (296)  |
| 3/4                | 3/4                                                          | VMS06-MN06        | 15.0                | 1 3/8" | 56.4 | 3000(206)                             | 3700 (254)  |

PS:若選用英制錐管螺紋 BSPT 則編號改 MR. 例:VMS02-MR02  
PS:For BSPT, please change part NO to MR. Example:VMS02-MR02

VMS-MSAE  
VMS 外螺紋直通接頭 SAE 螺紋 O 型圈密封  
VMS MALE CONNECTOR SAE THREAD



| VMS 尺寸<br>VMS SIZE | SAE<br>直管螺紋尺寸<br>SAE PARALLEL<br>THREAD SIZE | 編號<br>PART<br>NO. | 通孔徑<br>ORIFICE<br>E | F      | A    | 工作壓力<br>WORKING PRESSURE<br>psig(bar) |            |
|--------------------|----------------------------------------------|-------------------|---------------------|--------|------|---------------------------------------|------------|
|                    |                                              |                   |                     |        |      | NI                                    | SS         |
| 1/4                | 9/16-18                                      | VMS02-MSAE6       | 4.6                 | 3/4"   | 35.4 | 4500 (310)                            | 4500 (310) |
| 1/2                | 9/16-18                                      | VMS04-MSAE6       | 7.5                 | 15/16" | 40.1 | 3500 (241)                            | 4300 (296) |
| 1/2                | 7/8-14                                       | VMS04-MSAE10      | 10.2                | 1"     | 44.1 | 3500 (241)                            | 3500 (241) |

| SAE 螺紋尺寸<br>SAE THREAD<br>SIZE | 代號<br>DESIGNATOR | O-RINGS 代號<br>O-RINGS<br>DESIGNATOR | SAE<br>螺紋端工作壓力 MAX.<br>SAE THREAD<br>END WORKING<br>PRESSURE MAX. |     | SAE<br>螺紋端安裝扭力 ^<br>N·m +10%/-0%<br>SAE THREAD END<br>TORQUE^<br>N·m +10%/-0% |
|--------------------------------|------------------|-------------------------------------|-------------------------------------------------------------------|-----|-------------------------------------------------------------------------------|
|                                |                  |                                     | PSIG                                                              | BAR |                                                                               |
| 3/8-24                         | SAE3             | AS903                               | 9130                                                              | 630 | 15                                                                            |
| 7/16-20                        | SAE4             | AS904                               |                                                                   |     | 35                                                                            |
| 1/2-20                         | SAE5             | AS905                               |                                                                   |     | 40                                                                            |
| 9/16-18                        | SAE6             | AS906                               |                                                                   |     | 45                                                                            |
| 3/4-16                         | SAE8             | AS908                               | 6090                                                              | 420 | 85                                                                            |
| 7/8-14                         | SAE10            | AS910                               |                                                                   |     | 115                                                                           |
| 1-1/16-12                      | SAE12            | AS912                               |                                                                   |     | 170                                                                           |
| 1-3/16-12                      | SAE14            | AS914                               |                                                                   |     | 215                                                                           |
| 1-5/16-12                      | SAE16            | AS916                               |                                                                   |     | 270                                                                           |

- 除非另有說明, 否則所有尺寸單位均為 mm。
- 數值若是分數, 表示其單位是 inch.
- 上述尺寸僅供參考, 修改不另行通知。

- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
- FRACTIONAL NUMBERS MEAN INCH SIZE.
- DIMENSIONS SHOWN ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE.

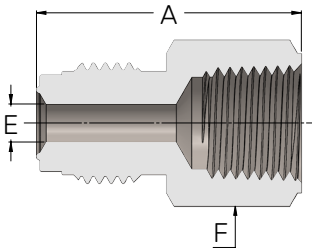
\*A:此安裝扭力為建議數據, 僅提供參考。某些因素會影響安裝扭力值, 例:潤滑油、表面塗層等。

\*A:The torque data is for reference only. It will be influenced by some factors, e.g.lube oil or coating etc.

※ 工作壓力額定值的選用基礎 WORKING PRESSURE RATING SELECTION BASIS

- 對於有 VMS 接頭又有管螺紋端的接頭, 其工作壓力值應由較低的端接來決定。
- 對於兩端有不同規格的接頭, 其工作壓力值應由較低的端接來決定。
- If there are a VMS fitting end and a thread end, working pressure rating is decided by the lower one.
- If there are two different end types, working pressure rating is decided by the lower one.

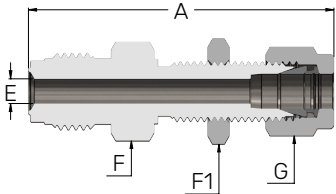
VMS-FR/FN  
VMS 外螺紋內牙直通接頭  
VMS MALE CONNECTOR FEMALE THREAD



| VMS 尺寸<br>VMS SIZE | BSPT / NPT<br>錐管螺紋尺寸<br>BSPT / NPT<br>TAPERED<br>THREAD SIZE | 編號<br>PART<br>NO. | 通孔徑<br>ORIFICE<br>E | F       | A    | 工作壓力<br>WORKING PRESSURE<br>psig(bar) |           |
|--------------------|--------------------------------------------------------------|-------------------|---------------------|---------|------|---------------------------------------|-----------|
|                    |                                                              |                   |                     |         |      | NI                                    | SS        |
| 1/8                | 1/8                                                          | VMS01-FN01        | 2.3                 | 9/16"   | 30.2 | 6500 (447)                            | 6500(447) |
| 1/4                | 1/8                                                          | VMS02-FN01        | 4.6                 | 5/8"    | 35.8 | 8000(551)                             | 8000(551) |
| 1/4                | 1/4                                                          | VMS02-FN02        | 4.6                 | 3/4"    | 39.1 | 6600(454)                             | 6600(454) |
| 1/2                | 3/8                                                          | VMS04-FN03        | 10.2                | 15/16"  | 44.7 | 3500(241)                             | 4300(296) |
| 1/2                | 1/2                                                          | VMS04-FN04        | 10.2                | 1 1/16" | 50.5 | 3500(241)                             | 4300(296) |
| 3/4                | 3/4                                                          | VMS06-FN06        | 15.7                | 1 3/8"  | 59.9 | 3000(206)                             | 3700(254) |

PS:若選用英制錐管螺紋 BSPT 則編號改 FR. 例:VMS02-FR02  
PS:For BSPT, please change part NO to FR. Example:VMS02-FR02

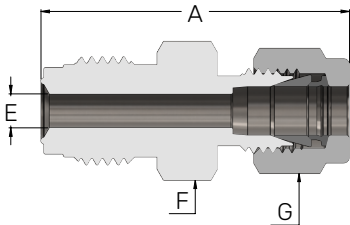
VMS-BJ  
VMS 外螺紋直通接頭穿板卡套式  
VMS MALE CONNECTOR BULKHEAD TUBE END



| VMS 尺寸<br>VMS SIZE | 卡套管外徑<br>TUBE O.D. | 編號<br>PART<br>NO. | 通孔徑<br>ORIFICE<br>E | F      | F <sub>1</sub> | G      | A    | 工作壓力<br>WORKING PRESSURE<br>psig(bar) |            |
|--------------------|--------------------|-------------------|---------------------|--------|----------------|--------|------|---------------------------------------|------------|
|                    |                    |                   |                     |        |                |        |      | NI                                    | SS         |
| 1/4                | 1/4                | VMS02-BJ02        | 4.6                 | 5/8"   | 17             | 9/16"  | 57.2 | 8000 (551)                            | 10000(689) |
| 1/2                | 3/8                | VMS04-BJ03        | 7.7                 | 15/16" | 19             | 11/16" | 64.8 | 3500(241)                             | 4300(296)  |
| 1/2                | 1/2                | VMS04-BJ04        | 10.0                | 15/16" | 24             | 7/8"   | 69   | 3500(241)                             | 4300(296)  |

\*JPE 接頭配合使用的卡套管最大壓力額定值, 請見目錄 - 儀表卡套接頭 ( 配管技術資料 P.2)  
\*FOR PRESSURE RATINGS OF TUBES TO BE USED WITH JPE TUBE FITTINGS, PLEASE REFER TO PAGE 2 OF THE INSTRUMENT TUBE FITTINGS CATALOG (TUBE DATA)

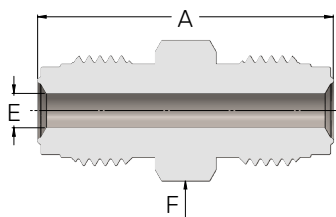
VMS-J  
VMS 卡套連接直通接頭  
VMS MALE CONNECTOR TUBE END



| VMS 尺寸<br>VMS SIZE | 卡套管外徑<br>TUBE O.D. | 編號<br>PART<br>NO. | 通孔徑<br>ORIFICE<br>E | F      | G      | A    | 工作壓力<br>WORKING PRESSURE<br>psig(bar) |            |
|--------------------|--------------------|-------------------|---------------------|--------|--------|------|---------------------------------------|------------|
|                    |                    |                   |                     |        |        |      | NI                                    | SS         |
| 1/4                | 1/8                | VMS02-J01         | 2.5                 | 5/8"   | 7/16"  | 39.3 | 8000 (551)                            | 10000(689) |
| 1/4                | 1/4                | VMS02-J02         | 4.6                 | 5/8"   | 9/16"  | 41.2 | 8000(551)                             | 10000(689) |
| 1/2                | 3/8                | VMS04-J03         | 7.7                 | 15/16" | 11/16" | 47.8 | 3500(241)                             | 4300(296)  |
| 1/2                | 1/2                | VMS04-J04         | 10                  | 15/16" | 7/8"   | 50   | 3500(241)                             | 4300(296)  |

\*JPE 接頭配合使用的卡套管最大壓力額定值, 請見目錄 - 儀表卡套接頭 ( 配管技術資料 P.2)  
\*FOR PRESSURE RATINGS OF TUBES TO BE USED WITH JPE TUBE FITTINGS, PLEASE REFER TO PAGE 2 OF THE INSTRUMENT TUBE FITTINGS CATALOG (TUBE DATA)

VMS-U  
VMS 直通由任活接頭  
VMS EQUAL UNION

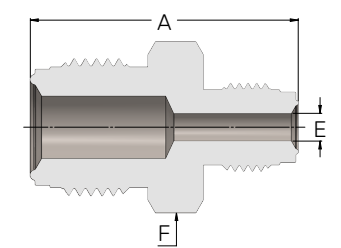


| VMS 尺寸<br>VMS SIZE | 編號<br>PART<br>NO. | 通孔徑<br>ORIFICE<br>E | F      | A    | 工作壓力<br>WORKING PRESSURE<br>psig(bar) |            |
|--------------------|-------------------|---------------------|--------|------|---------------------------------------|------------|
|                    |                   |                     |        |      | NI                                    | SS         |
| 1/8                | VMS-U01           | 2.3                 | 10     | 28.6 | 9000 (620)                            | 11200(771) |
| 1/4                | VMS-U02           | 4.6                 | 5/8"   | 38.8 | 8000(551)                             | 10000(689) |
| 1/2                | VMS-U04           | 10.2                | 15/16" | 47.2 | 3500(241)                             | 4300(296)  |
| 3/4                | VMS-U06           | 15.7                | 1 3/8" | 62.8 | 3000(206)                             | 3700(254)  |

- 除非另有說明, 否則所有尺寸單位均為 mm。
- 數值若是分數, 表示其單位是 inch.
- 上述尺寸僅供參考, 修改不另行通知。
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
- FRACTIONAL NUMBERS MEAN INCH SIZE.
- DIMENSIONS SHOWN ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE.

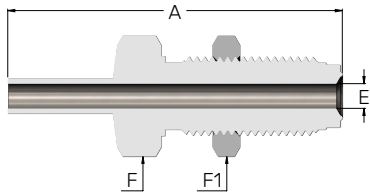
- 除非另有說明, 否則所有尺寸單位均為 mm。
- 數值若是分數, 表示其單位是 inch.
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VMS-RU  
異徑 VMS 直通由任接頭  
VMS REDUCING UNION



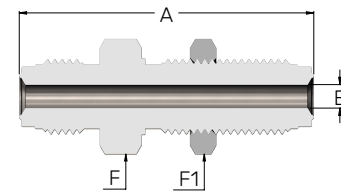
| VMS 尺寸<br>VMS SIZE | VMS 尺寸<br>VMS SIZE | 編號<br>PART NO. | 通孔徑<br>ORIFICE E | F      | A    | 工作壓力<br>WORKING PRESSURE<br>psig(bar) |            |
|--------------------|--------------------|----------------|------------------|--------|------|---------------------------------------|------------|
|                    |                    |                |                  |        |      | NI                                    | SS         |
| 1/8                | 1/4                | VMS-RU0102     | 2.3              | 5/8"   | 34.7 | 8000 (551)                            | 10000(689) |
| 1/4                | 1/2                | VMS-RU0204     | 4.6              | 15/16" | 43.5 | 3500(551)                             | 4300(296)  |

VMSB-TB  
VMS 穿板外螺紋接頭對焊式  
VMS BULKHEAD MALE CONNECTOR BUTT WELD



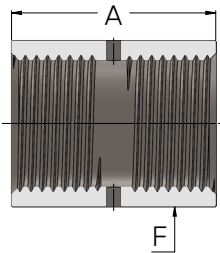
| VMS 尺寸<br>VMS SIZE | 卡套管外徑<br>TUBE O.D. | 編號<br>PART NO. | 通孔徑<br>ORIFICE E | F    | F1   | A    | 面板<br>孔徑<br>PANEL<br>ORIFICE | 面板<br>厚度<br>PANEL<br>THICKNESS | 工作壓力<br>WORKING PRESSURE<br>psig(bar) |           |
|--------------------|--------------------|----------------|------------------|------|------|------|------------------------------|--------------------------------|---------------------------------------|-----------|
|                    |                    |                |                  |      |      |      |                              |                                | NI                                    | SS        |
| 1/4                | 1/4                | VMSB02-TB02    | 4.6              | 3/4" | 3/4" | 60.9 | 15                           | 11.2                           | 5100(351)                             | 5100(351) |

VMS-BU  
VMS 穿板直通由任接頭  
VMS BULKHEAD UNION



| VMS 尺寸<br>VMS SIZE | 編號<br>PART NO. | 通孔徑<br>ORIFICE E | F       | F1      | A    | 面板<br>孔徑<br>PANEL<br>ORIFICE | 面板<br>厚度<br>PANEL<br>THICKNESS | 工作壓力<br>WORKING PRESSURE<br>psig(bar) |            |
|--------------------|----------------|------------------|---------|---------|------|------------------------------|--------------------------------|---------------------------------------|------------|
|                    |                |                  |         |         |      |                              |                                | NI                                    | SS         |
| 1/4                | VMS-BU02       | 4.6              | 3/4"    | 3/4"    | 56.4 | 15                           | 11.2                           | 8000 (551)                            | 10000(689) |
| 1/2                | VMS-BU04       | 10.2             | 1 1/16" | 1 1/16" | 65.7 | 23.1                         | 12.7                           | 3500(241)                             | 4300(296)  |

VMS-CG  
VMS 由任內牙螺母  
VMS COUPLING

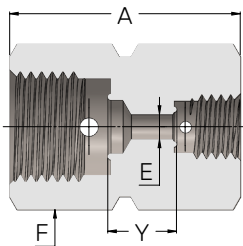


| VMS 尺寸<br>VMS SIZE | 編號<br>PART NO. | F       | A    |
|--------------------|----------------|---------|------|
| 1/8                | VMS-CG01       | 7/16"   | 16.8 |
| 1/4                | VMS-CG02       | 3/4"    | 30.2 |
| 1/2                | VMS-CG04       | 1 1/16" | 33.3 |
| 3/4                | VMS-CG06       | 1 1/2"  | 42.7 |

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- FRACTIONAL NUMBERS MEAN INCH SIZE.
- DIMENSIONS SHOWN ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE.

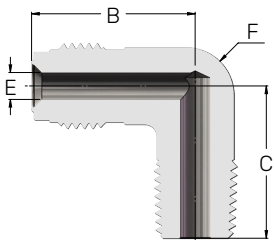
- 除非另有說明, 否則所有尺寸單位均為 mm。
- 數值若是分數, 表示其單位是 inch.
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VMS-DF  
異徑 VMS 內牙螺母  
VMS FEMALE REDUCING UNION



| VMS 尺寸<br>VMS SIZE | VMS 尺寸<br>VMS SIZE | 編號<br>PART NO. | 通孔徑<br>ORIFICE E | F       | Y   | A    | 工作壓力<br>WORKING PRESSURE<br>psig(bar) |            |
|--------------------|--------------------|----------------|------------------|---------|-----|------|---------------------------------------|------------|
|                    |                    |                |                  |         |     |      | NI                                    | SS         |
| 1/8                | 1/4                | VMS-DF0102     | 3.3              | 3/4"    | 9.1 | 29.5 | 8000(551)                             | 10000(689) |
| 1/4                | 1/2                | VMS-DF0204     | 6.4              | 1 1/16" | 8.9 | 35.8 | 3500(241)                             | 4300(296)  |

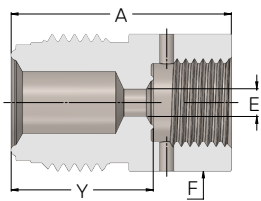
VMSE-MR/MN  
VMS 外螺紋外牙彎頭  
VMS MALE ELBOW



| VMS 尺寸<br>VMS SIZE | BSPT / NPT<br>錐管螺紋尺寸<br>BSPT / NPT<br>TAPERED<br>THREAD SIZE | 編號<br>PART NO. | 通孔徑<br>ORIFICE E | F      | B    | C    | 工作壓力<br>WORKING PRESSURE<br>psig(bar) |            |
|--------------------|--------------------------------------------------------------|----------------|------------------|--------|------|------|---------------------------------------|------------|
|                    |                                                              |                |                  |        |      |      | NI                                    | SS         |
| 1/4                | 1/8                                                          | VMSE02-MN01    | 4.6              | 1/2"   | 27.2 | 22.1 | 8000(551)                             | 10000(689) |
| 1/4                | 1/4                                                          | VMSE02-MN02    | 4.6              | 1/2"   | 27.2 | 26.7 | 8000(551)                             | 8000(551)  |
| 1/2                | 3/8                                                          | VMSE04-MN03    | 9.5              | 13/16" | 36.8 | 32.0 | 3500(241)                             | 4300(296)  |
| 1/2                | 1/2                                                          | VMSE04-MN04    | 10.2             | 13/16" | 36.8 | 36.8 | 3500(241)                             | 4300(296)  |

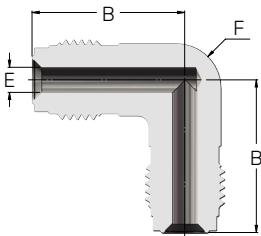
PS:若選用英制錐管螺紋 BSPT 則編號改 MR, 例:VMSE02-MR02  
PS:For BSPT, please change part NO to MR. Example:VMSE02-MR02

VMS-F  
VMS 外螺紋直通接頭 /VMS 內螺紋式  
VMS MALE CONNECTOR / VMS REDUCING BUSHING



| VMS 尺寸<br>VMS SIZE | VMS 尺寸<br>VMS SIZE | 編號<br>PART NO. | 通孔徑<br>ORIFICE E | F       | Y    | A    | 工作壓力<br>WORKING PRESSURE<br>psig(bar) |            |
|--------------------|--------------------|----------------|------------------|---------|------|------|---------------------------------------|------------|
|                    |                    |                |                  |         |      |      | NI                                    | SS         |
| 1/8                | 1/4                | VMS01-F02      | 2.3              | 3/4"    | 17.5 | 30.2 | 8000(551)                             | 10000(689) |
| 1/4                | 1/2                | VMS02-F04      | 4.6              | 1 1/16" | 21.6 | 35.8 | 3500(241)                             | 4300(296)  |
| 1/4                | 1/8                | VMS02-F01      | 2.3              | 5/8"    | 19.3 | 26.9 | 8000(551)                             | 10000(689) |
| 1/2                | 1/4                | VMS04-F02      | 4.6              | 15/16"  | 23.1 | 35.8 | 3500(241)                             | 4300(296)  |

VMS-UE  
VMS 由任彎頭  
VMS UNION ELBOW

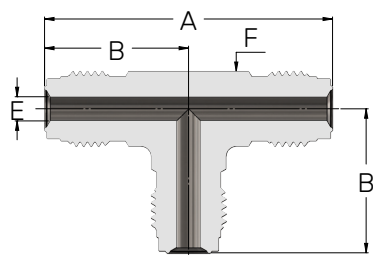


| VMS 尺寸<br>VMS SIZE | 編號<br>PART NO. | 通孔徑<br>ORIFICE E | F      | B    | 工作壓力<br>WORKING PRESSURE<br>psig(bar) |             |
|--------------------|----------------|------------------|--------|------|---------------------------------------|-------------|
|                    |                |                  |        |      | NI                                    | SS          |
| 1/8                | VMS-UE01       | 2.3              | 7/16"  | 22.6 | 9000 (620)                            | 11200 (771) |
| 1/4                | VMS-UE02       | 4.6              | 1/2"   | 27.2 | 8000 (551)                            | 10000 (689) |
| 1/2                | VMS-UE04       | 10.2             | 13/16" | 36.8 | 3500 (241)                            | 4300 (296)  |
| 3/4                | VMS-UE06       | 15.7             | 1 1/4" | 48.8 | 3000 (206)                            | 3700 (254)  |

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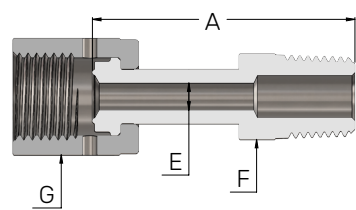
- 除非另有說明, 否則所有尺寸單位均為 mm。
- 數值若是分數, 表示其單位是 inch.
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VMS-UT  
VMS 由任三通  
VMS UNION TEE



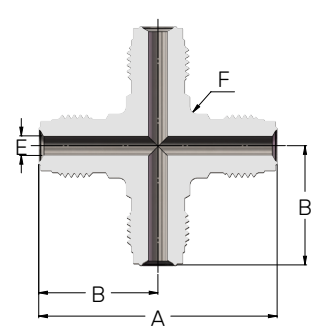
| VMS 尺寸<br>VMS SIZE | 編號<br>PART NO. | 通孔徑<br>ORIFICE E | F      | B    | A    | 工作壓力<br>WORKING PRESSURE<br>psig(bar) |            |
|--------------------|----------------|------------------|--------|------|------|---------------------------------------|------------|
|                    |                |                  |        |      |      | NI                                    | SS         |
| 1/8                | VMS-UT01       | 2.3              | 7/16"  | 22.6 | 45.2 | 9000(620)                             | 11200(771) |
| 1/4                | VMS-UT02       | 4.6              | 1/2"   | 27.2 | 54.4 | 8000(551)                             | 10000(689) |
| 1/2                | VMS-UT04       | 10.2             | 13/16" | 36.8 | 73.7 | 3500(241)                             | 4300(296)  |
| 3/4                | VMS-UT06       | 15.7             | 1 1/4" | 48.8 | 97.5 | 3000(206)                             | 3700(254)  |

VMSF-MR/MN  
VMS 內螺紋外牙直通接頭  
VMS FEMALE CONNECTOR MALE THREAD



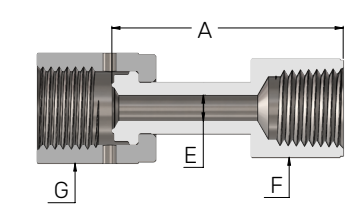
| VMS 尺寸<br>VMS SIZE | BSPT / NPT<br>錐管螺紋尺寸<br>BSPT / NPT<br>TAPERED<br>THREAD SIZE | 編號<br>PART NO. | 通孔徑<br>ORIFICE E | F     | G       | A    | 工作壓力<br>WORKING PRESSURE<br>psig(bar) |            |
|--------------------|--------------------------------------------------------------|----------------|------------------|-------|---------|------|---------------------------------------|------------|
|                    |                                                              |                |                  |       |         |      | NI                                    | SS         |
| 1/4                | 1/8                                                          | VMSF02-MN01    | 4.6              | 7/16" | 3/4"    | 40.1 | 8000 (551)                            | 8000 (551) |
| 1/4                | 1/4                                                          | VMSF02-MN02    | 4.6              | 9/16" | 3/4"    | 43.1 | 8000 (551)                            | 8000 (551) |
| 1/2                | 3/8                                                          | VMSF04-MN03    | 9.5              | 17    | 1 1/16" | 47.6 | 3500 (241)                            | 4300 (296) |
| 1/2                | 1/2                                                          | VMSF04-MN04    | 10.2             | 7/8"  | 1 1/16" | 51.6 | 3500 (241)                            | 4300 (296) |

VMS-UCR  
VMS 由任四通  
VMS UNION CROSS



| VMS 尺寸<br>VMS SIZE | 編號<br>PART NO. | 通孔徑<br>ORIFICE E | F      | B    | A    | 工作壓力<br>WORKING PRESSURE<br>psig(bar) |             |
|--------------------|----------------|------------------|--------|------|------|---------------------------------------|-------------|
|                    |                |                  |        |      |      | NI                                    | SS          |
| 1/8                | VMS-UCR01      | 2.3              | 7/16"  | 22.6 | 45.2 | 9000 (620)                            | 11200 (771) |
| 1/4                | VMS-UCR02      | 4.6              | 1/2"   | 27.2 | 54.4 | 8000 (551)                            | 10000 (689) |
| 1/2                | VMS-UCR04      | 10.2             | 13/16" | 36.8 | 73.6 | 3500 (241)                            | 4300 (296)  |
| 3/4                | VMS-UCR06      | 15.7             | 1 1/4" | 48.8 | 97.5 | 3000 (206)                            | 3700 (254)  |

VMSF-FR/FN  
VMS 內螺紋內牙直通接頭  
VMS FEMALE CONNECTOR FEMALE THREAD

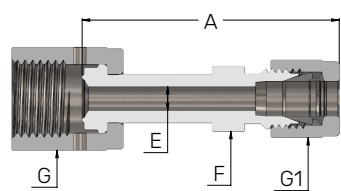


| VMS 尺寸<br>VMS SIZE | BSPT / NPT<br>錐管螺紋尺寸<br>BSPT / NPT<br>TAPERED<br>THREAD SIZE | 編號<br>PART NO. | 通孔徑<br>ORIFICE E | F       | G       | A    | 工作壓力<br>WORKING PRESSURE<br>psig(bar) |            |
|--------------------|--------------------------------------------------------------|----------------|------------------|---------|---------|------|---------------------------------------|------------|
|                    |                                                              |                |                  |         |         |      | NI                                    | SS         |
| 1/4                | 1/4                                                          | VMSF02-FN02    | 4.6              | 3/4"    | 3/4"    | 45   | 6600 (454)                            | 6600 (454) |
| 1/2                | 3/8                                                          | VMSF04-FN03    | 10.2             | 7/8"    | 1 1/16" | 49.5 | 3500 (241)                            | 4300 (296) |
| 1/2                | 1/2                                                          | VMSF04-FN04    | 10.2             | 1 1/16" | 1 1/16" | 55.4 | 3500 (241)                            | 4300 (296) |

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- 數值若是分數, 表示其單位是 inch.
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VMSF-J  
VMS 內螺紋卡套直通接頭  
VMS FEMALE CONNECTOR TUBE END

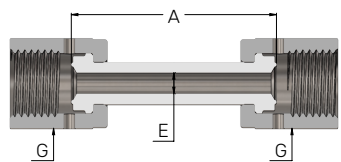


| VMS 尺寸<br>VMS SIZE | 卡套管外徑<br>TUBE O.D. | 編號<br>PART NO. | 通孔徑<br>ORIFICE E | F      | G       | G1    | A    | 工作壓力<br>WORKING PRESSURE<br>psig(bar) |             |
|--------------------|--------------------|----------------|------------------|--------|---------|-------|------|---------------------------------------|-------------|
|                    |                    |                |                  |        |         |       |      | NI                                    | SS          |
| 1/4                | 1/4                | VMSF02-J02     | 4.6              | 1/2"   | 3/4"    | 9/16  | 47.9 | 8000 (551)                            | 10000 (689) |
| 1/4                | 3/8                | VMSF02-J03     | 4.6              | 5/8"   | 3/4"    | 11/16 | 51.8 | 7500 (517)                            | 7500 (517)  |
| 1/2                | 1/2                | VMSF04-J04     | 10               | 13/16" | 1 1/16" | 7/8   | 55.5 | 3500 (241)                            | 4300 (296)  |

\*JPE 接頭配合使用的卡套管最大壓力額定值, 請見目錄 - 儀表卡套接頭 (配管技術資料 P.2)

\*FOR PRESSURE RATINGS OF TUBES TO BE USED WITH JPE TUBE FITTINGS, PLEASE REFER TO PAGE 2 OF THE INSTRUMENT TUBE FITTINGS CATALOG (TUBE DATA)

VMSF-U  
VMS 內螺紋由任接頭  
VMS FEMALE EQUAL UNION



| VMS 尺寸<br>VMS SIZE | 編號<br>PART NO. | 通孔徑<br>ORIFICE E | G       | A    | 工作壓力<br>WORKING PRESSURE<br>psig(bar) |             |
|--------------------|----------------|------------------|---------|------|---------------------------------------|-------------|
|                    |                |                  |         |      | NI                                    | SS          |
| 1/4                | VMSF-U02       | 4.6              | 3/4"    | 43.4 | 8000 (551)                            | 10000 (689) |
| 1/2                | VMSF-U04       | 10.2             | 1 1/16" | 46.7 | 3500 (241)                            | 4300 (296)  |

- 除非另有說明, 否則所有尺寸單位均為 mm。
- 數值若是分數, 表示其單位是 inch.
- 上述尺寸僅供參考, 修改不另行通知。
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
- FRACTIONAL NUMBERS MEAN INCH SIZE.
- DIMENSIONS SHOWN ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE.

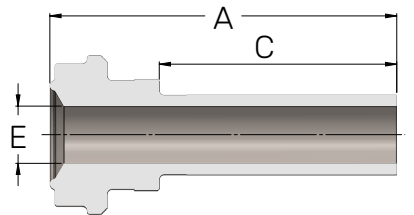
ORDERING INFORMATION 選型表

| BS6 -                                                                          | VMS -HXBW                            | 01                 | 01                                  |                                 |                                                    | S                               |
|--------------------------------------------------------------------------------|--------------------------------------|--------------------|-------------------------------------|---------------------------------|----------------------------------------------------|---------------------------------|
| 產品大類及材質<br>CLASSIFICATION &<br>MATERIAL                                        | 產品名稱<br>PRODUCT NAME                 | VMS 尺寸<br>VMS SIZE | 卡套尺寸 ( 英制 )<br>SIZE<br>(FRACTIONAL) | 卡套尺寸 ( 公制 )<br>SIZE<br>(METRIC) | 套焊 / 對焊尺寸<br>SOCKET WELDING /<br>BUTT WELDING SIZE | 連接方式<br>CONNECTION TYPE         |
| BS6:接頭類 SS316L<br>SS316L FITTING                                               | VMS-HXBW:VMS 對焊焊芯<br>VMS BUTT WELD   | 01:1/8"            | 01:1/8"                             | 6:6mm                           | 01:1/8"                                            | S:短管<br>SHORT TUBE              |
| BS6LV: 接頭類 SS316L VAR 高純度不銹鋼<br>FITTING SS316L VAR HIGH PURITY STAINLESS STEEL | VMS-HXSW:VMS 套焊焊芯<br>VMS SOCKET WELD | 02:1/4"            | 02:1/4"                             | 8:8mm                           | 02:1/4"                                            | L:長管<br>LONG TUBE               |
|                                                                                | VMS-HXMW:VMS 外焊焊芯<br>VMS MALE WELD   | 04:1/2"            | 03:3/8"                             | 10:10mm                         | 03:3/8"                                            | SA:自動短管<br>SHORT AUTOMATIC TUBE |
|                                                                                | VMS-HXTA:VMS 尾管<br>VMS TUBE ADAPTER  | 06:3/4"            | 04:1/2"                             | 12:12mm                         | 04:1/2"                                            | LA:自動長管<br>LONG AUTOMATIC TUBE  |
|                                                                                | VMS-BLG:VMS 盲孔接管<br>VMS BLIND GLAND  | 08:1"              | 05:5/8"                             | 18:18mm                         | 06:3/4"                                            |                                 |
|                                                                                |                                      |                    | 06:3/4"                             |                                 | 08:1"                                              |                                 |
|                                                                                |                                      |                    | 08:1"                               |                                 |                                                    |                                 |

| 接管、本體和螺母 GLAND、BODY AND NUT              |                                     |                                                         |
|------------------------------------------|-------------------------------------|---------------------------------------------------------|
| 材料 MATERIAL                              | 產品大類及材質 CLASSIFICATION AND MATERIAL | 標準規範 SPECIFICATION                                      |
| 316L 不鏽鋼<br>316L STAINLESS STEEL         | BS6L                                | 棒材 BAR STOCK: ASTM A276 / A479<br>鍛件 FORGINGS:ASTM A182 |
| 316L VAR 不鏽鋼<br>316L VAR STAINLESS STEEL | BS6LV                               | SEMI F20 高純①<br>SEMI F20 HIGH PURITY                    |

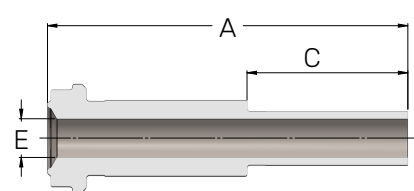
① 伸長率最少允許 20%  
① 20 % MINIMUM ELONGATION ALLOWED

VMS-HXBW S  
VMS 短管對焊焊芯  
VMS SHORT TUBE  
BUTT WELD



| VMS 尺寸<br>VMS SIZE | 對焊管外徑<br>BUTT WELD<br>TUBE O.D. | 編號<br>PART<br>NO. | 通孔徑<br>ORIFICE<br>E | C    | A    | 工作壓力<br>WORKING PRESSURE<br>psig(bar) |            |
|--------------------|---------------------------------|-------------------|---------------------|------|------|---------------------------------------|------------|
|                    |                                 |                   |                     |      |      | NI                                    | SS         |
| 英制 (FRACTIONAL)    |                                 |                   |                     |      |      |                                       |            |
| 1/8                | 1/8                             | VMS-HXBW0101S     | 1.8                 | 19.1 | 27.4 | 8500 (585)                            | 8500 (585) |
| 1/4                | 1/8                             | VMS-HXBW0201S     | 1.8                 | 19.1 | 27.9 | 8000 (551)                            | 8500 (585) |
| 1/4                | 1/4                             | VMS-HXBW0202S(S)  | 4.6                 | 6.4  | 15.2 |                                       |            |
| 1/4                | 1/4                             | VMS-HXBW0202S(M)  | 4.6                 | 9.6  | 18.3 | 5100 (351)                            | 5100 (351) |
| 1/4                | 1/4                             | VMS-HXBW0202S(L)  | 4.6                 | 19.1 | 27.9 |                                       |            |
| 1/2                | 1/4                             | VMS-HXBW0402S     | 4.6                 | 19.1 | 28.4 | 3500 (241)                            | 4300 (296) |
| 1/2                | 3/8                             | VMS-HXBW0403S(S)  | 7.9                 | 6.4  | 15.7 |                                       |            |
| 1/2                | 3/8                             | VMS-HXBW0403S(L)  | 7.9                 | 19.1 | 28.4 | 3300 (227)                            | 3300 (227) |
| 1/2                | 1/2                             | VMS-HXBW0404S(S)  | 10.2                | 6.4  | 15.7 |                                       |            |
| 1/2                | 1/2                             | VMS-HXBW0404S(M)  | 10.2                | 9.6  | 18.8 | 3500 (241)                            | 3700 (254) |
| 1/2                | 1/2                             | VMS-HXBW0404S(L)  | 10.2                | 19.1 | 28.4 |                                       |            |
| 公制 (METRIC)        |                                 |                   |                     |      |      |                                       |            |
| 1/4                | 6mm                             | VMS-HXBW026S      | 4.0                 | 19.1 | 29.5 | 6800 (468)                            | 6800 (468) |
| 1/4                | 8mm                             | VMS-HXBW028S      | 6.0                 | 19.1 | 29.5 | 4900 (337)                            | 4900 (337) |
| 1/2                | 10mm                            | VMS-HXBW0410S     | 8.0                 | 19.1 | 29.5 | 3500 (241)                            | 3500 (241) |
| 1/2                | 12mm                            | VMS-HXBW0412S     | 10.0                | 19.1 | 29.5 | 3100 (213)                            | 3100 (213) |
| 3/4                | 18mm                            | VMS-HXBW0618S     | 15.0                | 19.1 | 31   | 3000 (206)                            | 3000 (206) |

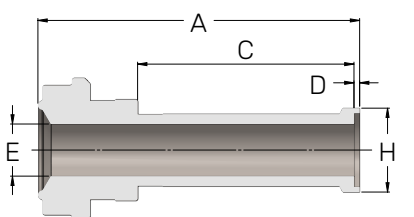
VMS-HXBW L  
VMS 長管對焊焊芯  
VMS LONG TUBE  
BUTT WELD



| VMS 尺寸<br>VMS SIZE | 對焊管外徑<br>BUTT WELD<br>TUBE O.D. | 編號<br>PART<br>NO. | 通孔徑<br>ORIFICE<br>E | C    | A    | 工作壓力<br>WORKING PRESSURE<br>psig(bar) |            |
|--------------------|---------------------------------|-------------------|---------------------|------|------|---------------------------------------|------------|
|                    |                                 |                   |                     |      |      | NI                                    | SS         |
| 英制 (FRACTIONAL)    |                                 |                   |                     |      |      |                                       |            |
| 1/8                | 1/8                             | VMS-HXBW0101L     | 1.8                 | 19.1 | 36.1 | 8500 (585)                            | 8500 (585) |
| 1/4                | 1/4                             | VMS-HXBW0202L(S)  | 4.6                 | 6.4  | 30.5 |                                       |            |
| 1/4                | 1/4                             | VMS-HXBW0202L(M)  | 4.6                 | 9.6  | 33.5 | 5100 (351)                            | 5100 (351) |
| 1/4                | 1/4                             | VMS-HXBW0202L(L)  | 4.6                 | 19.1 | 43.2 |                                       |            |
| 1/2                | 1/4                             | VMS-HXBW0402L     | 4.6                 | 19.1 | 45.7 | 3500 (241)                            | 3500 (241) |
| 1/2                | 3/8                             | VMS-HXBW0403L(S)  | 7.9                 | 6.4  | 32.8 | 3300 (227)                            | 3300 (227) |
| 1/2                | 3/8                             | VMS-HXBW0403L(L)  | 7.9                 | 19.1 | 45.5 |                                       |            |
| 1/2                | 1/2                             | VMS-HXBW0404L(S)  | 10.2                | 6.4  | 32.8 |                                       |            |
| 1/2                | 1/2                             | VMS-HXBW0404L(M)  | 10.2                | 9.6  | 35.8 | 3500 (241)                            | 3500 (241) |
| 1/2                | 1/2                             | VMS-HXBW0404L(L)  | 10.2                | 19.1 | 45.5 |                                       |            |
| 3/4                | 3/4                             | VMS-HXBW0606L     | 16.5                | 19.1 | 51.6 | 2400 (165)                            | 2400 (165) |
| 公制 (METRIC)        |                                 |                   |                     |      |      |                                       |            |
| 1/4                | 6mm                             | VMS-HXBW026L      | 4.0                 | 19.1 | 43.2 | 6800 (468)                            | 6800 (468) |
| 1/4                | 8mm                             | VMS-HXBW028L      | 6.0                 | 19.1 | 43.2 | 4900 (337)                            | 4900 (337) |
| 1/2                | 10mm                            | VMS-HXBW0410L     | 8.0                 | 19.1 | 45.5 | 3500 (241)                            | 3500 (241) |
| 1/2                | 12mm                            | VMS-HXBW0412L     | 10.2                | 19.1 | 45.5 | 3100 (213)                            | 3100 (213) |
| 3/4                | 18mm                            | VMS-HXBW0618L     | 15.0                | 19.1 | 51.6 | 3000 (206)                            | 3000 (206) |

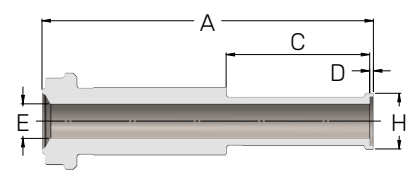
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VMS-HXBW SA  
VMS 自動短管對焊焊芯  
VMS SHORT AUTOMATIC TUBE BUTT WELD



| VMS 尺寸<br>VMS SIZE | 對焊管外徑<br>BUTT WELD<br>TUBE O.D. | 編號<br>PART<br>NO. | D   | 通孔徑<br>ORIFICE<br>E | C    | H    | A    | 工作壓力<br>WORKING PRESSURE<br>psig(bar) |            |
|--------------------|---------------------------------|-------------------|-----|---------------------|------|------|------|---------------------------------------|------------|
|                    |                                 |                   |     |                     |      |      |      | NI                                    | SS         |
|                    |                                 |                   |     |                     |      |      |      | 英制 (FRACTIONAL)                       |            |
| 1/4                | 1/4                             | VMS-HXBW0202SA    | 0.5 | 4.6                 | 19.1 | 7.4  | 28.4 | 5100 (351)                            | 5100 (351) |
| 1/2                | 3/8                             | VMS-HXBW0403SA    | 0.8 | 7.9                 | 19.1 | 10.1 | 29.2 | 3300 (227)                            | 3300 (227) |
| 1/2                | 1/2                             | VMS-HXBW0404SA    | 1   | 10.2                | 19.1 | 14   | 29.5 | 3500 (241)                            | 3500 (241) |
| 公制 (METRIC)        |                                 |                   |     |                     |      |      |      |                                       |            |
| 1/4                | 6mm                             | VMS-HXBW026SA     | 0.5 | 4                   | 19.1 | 6.8  | 30   | 6800 (468)                            | 6800 (468) |
| 1/4                | 8mm                             | VMS-HXBW028SA     | 0.8 | 6                   | 19.1 | 8.9  | 30.2 | 4900 (337)                            | 4900 (337) |
| 1/2                | 10mm                            | VMS-HXBW0410SA    | 0.8 | 8                   | 19.1 | 10.9 | 31   | 3500 (241)                            | 3500 (241) |
| 1/2                | 12mm                            | VMS-HXBW0412SA    | 1   | 10                  | 19.1 | 13.2 | 30.5 | 3100 (213)                            | 3100 (213) |

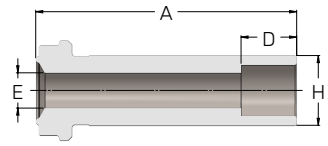
VMS-HXBW LA  
VMS 自動長管對焊焊芯  
VMS LONG AUTOMATIC TUBE BUTT WELD



| VMS 尺寸<br>VMS SIZE | 對焊管外徑<br>BUTT WELD<br>TUBE O.D. | 編號<br>PART<br>NO. | D   | 通孔徑<br>ORIFICE<br>E | C    | H    | A    | 工作壓力<br>WORKING PRESSURE<br>psig(bar) |            |
|--------------------|---------------------------------|-------------------|-----|---------------------|------|------|------|---------------------------------------|------------|
|                    |                                 |                   |     |                     |      |      |      | NI                                    | SS         |
|                    |                                 |                   |     |                     |      |      |      | 英制 (FRACTIONAL)                       |            |
| 1/4                | 1/4                             | VMS-HXBW0202LA    | 0.5 | 4.6                 | 19.1 | 7.4  | 43.7 | 5100 (351)                            | 5100 (351) |
| 1/2                | 1/4                             | VMS-HXBW0402LA    | 0.5 | 4.5                 | 19.1 | 7.4  | 46.2 | 3500 (241)                            | 3500 (241) |
| 1/2                | 3/8                             | VMS-HXBW0403LA    | 0.8 | 7.9                 | 19.1 | 10.4 | 46.2 | 3300 (227)                            | 3300 (227) |
| 1/2                | 1/2                             | VMS-HXBW0404LA    | 1   | 10.2                | 19.1 | 14   | 46.5 | 3500 (241)                            | 3500 (241) |
| 3/4                | 3/4                             | VMS-HXBW0606LA    | 1   | 16.5                | 19.1 | 20.3 | 52.6 | 2400 (165)                            | 2400 (165) |
| 公制 (METRIC)        |                                 |                   |     |                     |      |      |      |                                       |            |
| 1/4                | 6mm                             | VMS-HXBW026LA     | 0.5 | 4                   | 19.1 | 6.8  | 43.7 | 6800 (468)                            | 6800 (468) |
| 1/2                | 12mm                            | VMS-HXBW0412LA    | 1   | 10                  | 19.1 | 13.2 | 46.5 | 3100 (213)                            | 3100 (213) |
| 3/4                | 18mm                            | VMS-HXBW0618LA    | 1   | 15                  | 19.1 | 19.3 | 52.6 | 3000 (206)                            | 3000 (206) |

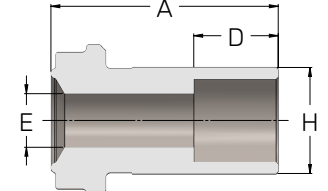
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VMS-HXSW  
VMS 套焊焊芯  
VMS SOCKET WELD



| VMS 尺寸<br>VMS SIZE | 套焊管外徑<br>SOCKET<br>WELD TUBE<br>O.D. | 編號<br>PART<br>NO. | D    | 通孔徑<br>ORIFICE<br>E | H    | A    | 工作壓力<br>WORKING PRESSURE<br>psig(bar) |            |
|--------------------|--------------------------------------|-------------------|------|---------------------|------|------|---------------------------------------|------------|
|                    |                                      |                   |      |                     |      |      | NI                                    | SS         |
| 1/8                | 1/16                                 | VMS-HXSW01005     | 2.5  | 1.3                 | 3.3  | 17.8 | 9000 (620)                            | 9000 (620) |
| 1/8                | 1/8                                  | VMS-HXSW0101      | 2.5  | 2.3                 | 5.1  | 17.8 | 7100 (489)                            | 7100 (489) |
| 1/4                | 1/4                                  | VMS-HXSW0202      | 7.1  | 4.6                 | 8.9  | 33.3 | 5500 (378)                            | 5500 (378) |
| 1/2                | 3/8                                  | VMS-HXSW0403      | 7.9  | 7.1                 | 15.2 | 38.1 | 3500 (241)                            | 4300 (296) |
| 1/2                | 1/2                                  | VMS-HXSW0404      | 9.6  | 10.2                | 15.2 | 38.1 | 3000 (206)                            | 3000 (206) |
| 5/8                | 5/8                                  | VMS-HXSW0505      | 10.4 | 12.7                | 18.3 | 39.6 | 2800 (192)                            | 2800 (192) |
| 3/4                | 3/4                                  | VMS-HXSW0606      | 11.2 | 15.7                | 22.4 | 50.8 | 2800 (192)                            | 2800 (192) |

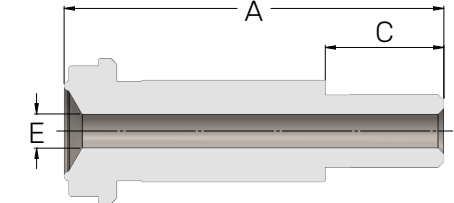
VMS-HXSW S  
VMS 短管套焊焊芯  
VMS SHORT TUBE SOCKET WELD



| VMS 尺寸<br>VMS SIZE | 套焊管外徑<br>SOCKET<br>WELD TUBE<br>O.D. | 編號<br>PART<br>NO. | D   | 通孔徑<br>ORIFICE<br>E | H   | A    | 工作壓力<br>WORKING PRESSURE<br>psig(bar) |            |
|--------------------|--------------------------------------|-------------------|-----|---------------------|-----|------|---------------------------------------|------------|
|                    |                                      |                   |     |                     |     |      | NI                                    | SS         |
| 1/4                | 1/4                                  | VMS-HXSW0202S(S)  | 7.1 | 4.6                 | 8.9 | 12.7 | 5500 (378)                            | 5500 (378) |
| 1/4                | 1/4                                  | VMS-HXSW0202S(L)  | 7.1 | 4.6                 | 8.9 | 19.1 |                                       |            |

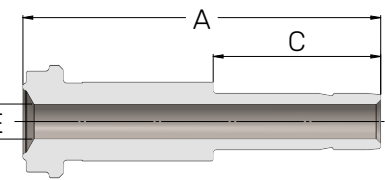
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VMS-HXMW  
VMS 外焊焊芯  
VMS MALE WELD



| VMS 尺寸<br>VMS SIZE | 對焊管外徑<br>BUTT WELD<br>TUBE O.D. | 編號<br>PART<br>NO. | 通孔徑<br>ORIFICE<br>E | C    | A    | 工作壓力<br>WORKING PRESSURE<br>psig(bar) |             |
|--------------------|---------------------------------|-------------------|---------------------|------|------|---------------------------------------|-------------|
|                    |                                 |                   |                     |      |      | NI                                    | SS          |
| 1/8                | 1/8                             | VMS-HXMW0101      | 1.5                 | 7.1  | 17.8 | 9000 (620)                            | 11200 (771) |
| 1/4                | 1/8                             | VMS-HXMW0201      | 1.5                 | 7.1  | 33.3 | 8000 (551)                            | 10000 (689) |
| 1/4                | 1/4                             | VMS-HXMW0202      | 3                   | 10.4 | 33.3 | 8000 (551)                            | 10000 (689) |
| 1/2                | 1/4                             | VMS-HXMW0402      | 3                   | 10.4 | 38.1 | 3500 (241)                            | 4300 (296)  |
| 1/2                | 3/8                             | VMS-HXMW0403      | 7.1                 | 10.4 | 38.1 | 3500 (241)                            | 4300 (296)  |
| 1/2                | 1/2                             | VMS-HXMW0404      | 10.2                | 12.7 | 38.1 | 3500 (241)                            | 3500 (241)  |
| 3/4                | 3/4                             | VMS-HXMW0606      | 13.5                | 15.7 | 50.8 | 3000 (206)                            | 3700 (254)  |

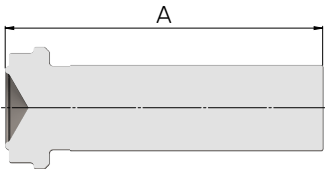
VMS-HXTA  
VMS 尾管  
VMS TUBE ADAPTER



| VMS 尺寸<br>VMS SIZE | 卡套管外徑<br>TUBE O.D. | 編號<br>PART<br>NO. | 通孔徑<br>ORIFICE<br>E | C    | A    | 工作壓力<br>WORKING PRESSURE<br>psig(bar) |             |
|--------------------|--------------------|-------------------|---------------------|------|------|---------------------------------------|-------------|
|                    |                    |                   |                     |      |      | NI                                    | SS          |
| 1/4                | 1/4                | VMS-HXTA0202      | 4                   | 16   | 40.8 | 8000 (551)                            | 10000 (689) |
| 1/2                | 3/8                | VMS-HXTA0403      | 7                   | 18   | 46.2 | 3500 (241)                            | 4300 (296)  |
| 1/2                | 1/2                | VMS-HXTA0404      | 9.5                 | 23.7 | 48.6 | 3500 (241)                            | 4300 (296)  |

- 除非另有說明, 否則所有尺寸單位均為 mm。
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VMS-BLG  
VMS 盲孔接管  
VMS BLIND GLAND



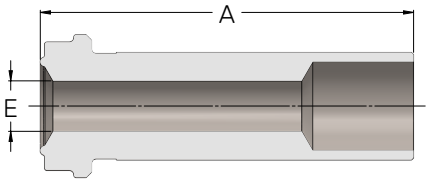
| VMS 尺寸<br>VMS SIZE | 接管外徑<br>GLAND<br>O.D. | 編號<br>PART<br>NO. | A    |
|--------------------|-----------------------|-------------------|------|
| 1/8                | 1/8                   | VMS-BLG01         | 17.8 |
| 1/4                | 1/4                   | VMS-BLG02         | 33.3 |
| 1/2                | 1/2                   | VMS-BLG04         | 38.1 |
| 3/4                | 3/4                   | VMS-BLG06         | 50.8 |

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ORDERING INFORMATION 選型表

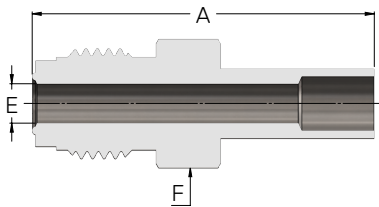
|                                |                                                 |          |                   |                     |
|--------------------------------|-------------------------------------------------|----------|-------------------|---------------------|
| BS6 -                          | HVMS-HXBW                                       | 02       | 03                | M                   |
| 產品大類及材質                        | 產品名稱                                            | VMS 尺寸   | 對焊尺寸              | 連接方式                |
| CLASSIFICATION & MATERIAL      | PRODUCT NAME                                    | VMS SIZE | BUTT WELDING SIZE | CONNECTION TYPE     |
| BS6:接頭類 SS316L                 | HVMS-HXBW:高流量 VMS 對焊焊芯                          | 02:1/4"  | 03:3/8"           | F:VMSF 內螺紋          |
| SS316L FITTING                 | HIGH-FLOW VMS BUTT WELD                         |          |                   | VMS FEMALE THREAD   |
| BS6LV: 接頭類 SS316LVAR 高純度不銹鋼    | HVMS-TB:高流量 VMS 外螺紋對焊焊芯                         |          |                   | M:VMSM 外螺紋          |
| FITTING SS316L VAR HIGH PURITY | HIGH-FLOW VMS MALE BUTT WELD                    |          |                   | VMS MALE THREAD     |
| STAINLESS STEEL                |                                                 |          |                   |                     |
|                                | HVMSB-TB:高流量 VMS 穿板外螺紋接頭對焊式                     |          |                   | MA:自動外螺紋            |
|                                | HIGH-FLOW VMS BULKHEAD MALE CONNECTOR BUTT WELD |          |                   | MALE AUTOMATIC TUBE |
|                                | HVMS-UE:高流量 VMS 由任彎頭                            |          |                   |                     |
|                                | HIGH-FLOW VMS UNION ELBOW                       |          |                   |                     |
|                                | HVMS-UT:高流量 VMS 由任三通接頭                          |          |                   |                     |
|                                | HIGH-FLOW VMS UNION TEE                         |          |                   |                     |
|                                | HVMS-N:高流量 VMS 螺母                               |          |                   |                     |
|                                | HIGH-FLOW VMS NUT                               |          |                   |                     |

HVMS-HXBW  
高流量 VMS 對焊焊芯  
HIGH-FLOW VMS BUTT WELD



| VMS 尺寸<br>VMS SIZE | 卡套管外徑<br>TUBE O.D. | 編號<br>PART NO.   | 通孔徑<br>ORIFICE E | A    | 工作壓力<br>WORKING PRESSURE<br>psig(bar) |            |
|--------------------|--------------------|------------------|------------------|------|---------------------------------------|------------|
|                    |                    |                  |                  |      | NI                                    | SS         |
| 1/4                | 3/8                | HVMS-HXBW0203(S) | 6.4              | 15.2 | 3300 (227)                            | 3300 (227) |
| 1/4                | 3/8                | HVMS-HXBW0203(M) | 6.4              | 30.2 |                                       |            |
| 1/4                | 3/8                | HVMS-HXBW0203(L) | 6.4              | 33.3 |                                       |            |

HVMS-TB  
高流量 VMS 外螺紋對焊焊芯  
HIGH-FLOW VMS MALE BUTT WELD



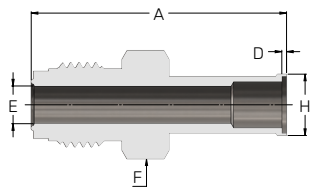
| VMS 尺寸<br>VMS SIZE | 對焊管外徑<br>BUTT WELD<br>TUBE O.D. | 編號<br>PART NO. | 通孔徑<br>ORIFICE E | F    | A    | 工作壓力<br>WORKING PRESSURE<br>psig(bar) |            |
|--------------------|---------------------------------|----------------|------------------|------|------|---------------------------------------|------------|
|                    |                                 |                |                  |      |      | NI                                    | SS         |
| 1/4                | 3/8                             | HVMS-TB0203    | 6.4              | 5/8" | 42.5 | 3300 (227)                            | 3300 (227) |

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HVMS-TB MA

高流量 VMS 外螺紋自動對焊焊芯

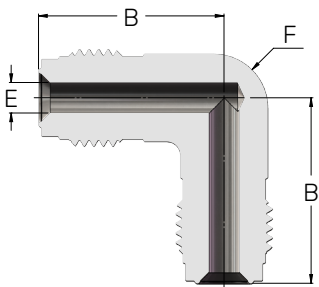
HIGH-FLOW VMS MALE AUTOMATIC TUBE BUTT WELD

|  | VMS 尺寸<br>VMS SIZE | 對焊管外徑<br>BUTT WELD<br>TUBE O.D. | 編號<br>PART<br>NO. | D   | 通孔徑<br>ORIFICE<br>E | F    | H    | A    | 工作壓力<br>WORKING PRESSURE<br>psig(bar) |            |
|-----------------------------------------------------------------------------------|--------------------|---------------------------------|-------------------|-----|---------------------|------|------|------|---------------------------------------|------------|
|                                                                                   |                    |                                 |                   |     |                     |      |      |      | NI                                    | SS         |
|                                                                                   | 1/4                | 3/8                             | HVMSB-TB0203MA    | 0.8 | 6.4                 | 5/8" | 10.4 | 43.3 | 3300 (227)                            | 3300 (227) |

HVMS-UE

高流量 VMS 由任彎頭

HIGH-FLOW VMS UNION ELBOW



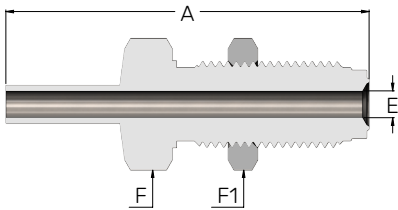
| VMS 尺寸<br>VMS SIZE | 編號<br>PART<br>NO. | 通孔徑<br>ORIFICE<br>E | F    | B    | 工作壓力<br>WORKING PRESSURE<br>psig(bar) |             |
|--------------------|-------------------|---------------------|------|------|---------------------------------------|-------------|
|                    |                   |                     |      |      | NI                                    | SS          |
| 1/4                | HVMS-UE02         | 6.4                 | 1/2" | 27.2 | 8000 (551)                            | 10000 (689) |

HVMS-TB

高流量 VMS 穿板外螺紋接頭對焊式

HIGH-FLOW VMS BULKHEAD MALE CONNECTOR BUTT WELD

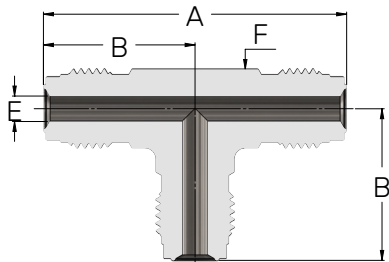
| VMS 尺寸<br>VMS SIZE | 卡套管外徑<br>TUBE O.D. | 編號<br>PART<br>NO. | 通孔徑<br>ORIFICE<br>E | F    | F1   | A    | 面板<br>孔徑<br>PANEL<br>ORIFICE | 面板<br>厚度<br>PANEL<br>THICKNESS | 工作壓力<br>WORKING PRESSURE<br>psig(bar) |    |
|--------------------|--------------------|-------------------|---------------------|------|------|------|------------------------------|--------------------------------|---------------------------------------|----|
|                    |                    |                   |                     |      |      |      |                              |                                | NI                                    | SS |
| 1/4                | 3/8                | HVMSB-TB0203      | 6.4                 | 3/4" | 3/4" | 60.1 | 15                           | 11.2                           | 3300 (227)                            |    |



HVMS-UT

高流量 VMS 由任三通

HIGH-FLOW VMS UNION TEE

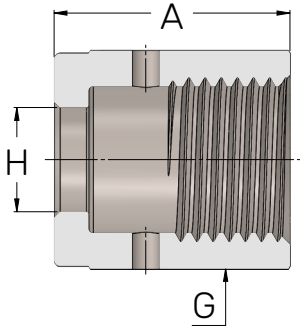


| VMS 尺寸<br>VMS SIZE | 編號<br>PART<br>NO. | 通孔徑<br>ORIFICE<br>E | F    | B    | A    | 工作壓力<br>WORKING PRESSURE<br>psig(bar) |             |
|--------------------|-------------------|---------------------|------|------|------|---------------------------------------|-------------|
|                    |                   |                     |      |      |      | NI                                    | SS          |
| 1/4                | HVMS-UT02         | 6.4                 | 1/2" | 27.2 | 54.4 | 8000 (551)                            | 10000 (689) |

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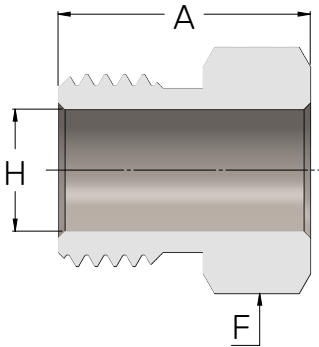
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HVMS-N/F  
高流量 VMS 內牙螺母  
HIGH-FLOW VMS FEMALE NUT



| VMS 尺寸<br>VMS SIZE | 編號<br>PART NO.  | H    | G    | A    |
|--------------------|-----------------|------|------|------|
| 1/4                | HVMS-N02F       | 9.9  | 3/4" | 20.6 |
| 1/4                | HVMS-N02F(11.7) | 11.7 | 3/4" | 20.6 |

HVMS-N/M  
高流量 VMS 外牙螺母  
HIGH-FLOW VMS MALE NUT



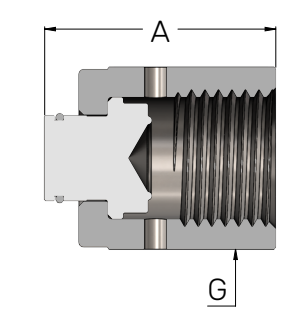
| VMS 尺寸<br>VMS SIZE | 編號<br>PART NO. | H   | F    | A    |
|--------------------|----------------|-----|------|------|
| 1/4                | HVMS-N02M      | 9.9 | 5/8" | 18.8 |

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ORDERING INFORMATION 選型表

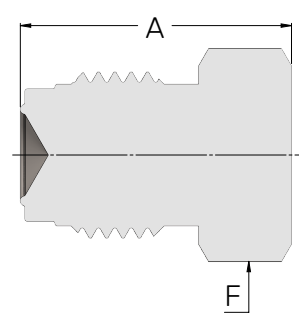
| BS6 -                            | VMS -N          | 01       | M                 |
|----------------------------------|-----------------|----------|-------------------|
| 產品大類及材質                          | 產品名稱            | VMS 尺寸   | 連接方式              |
| CLASSIFICATION & MATERIAL        | PRODUCT NAME    | VMS SIZE | CONNECTION TYPE   |
| BS6：接頭類 SS316L<br>SS316L FITTING | VMSF-C：VMS 螺帽堵頭 | 01：1/8"  | F：內螺紋             |
|                                  | VMS CAP         |          | FEMALE THREAD     |
|                                  | VMS-P：VMS 堵塞頭   | 02：1/4"  | M：外螺紋             |
|                                  | VMS PLUG        |          | MALE THREAD       |
|                                  | VMS-N：VMS 螺母    | 04：1/2"  | MS：外螺紋 / 短        |
|                                  | VMS NUT         |          | MALE THREAD/SHORT |
|                                  |                 | 06：3/4"  |                   |
|                                  |                 | 08：1"    |                   |

VMSF-C  
VMS 螺帽堵頭  
VMS CAP



| VMS 尺寸<br>VMS SIZE | 編號<br>PART NO. | G       | A    |
|--------------------|----------------|---------|------|
| 1/8                | BS6-VMSF-C01   | 7/16"   | 16   |
| 1/4                | BS6-VMSF-C02   | 3/4"    | 24.2 |
| 1/2                | BS6-VMSF-C04   | 1 1/16" | 25.6 |
| 3/4                | BS6-VMSF-C06   | 1 1/2"  | 32.8 |

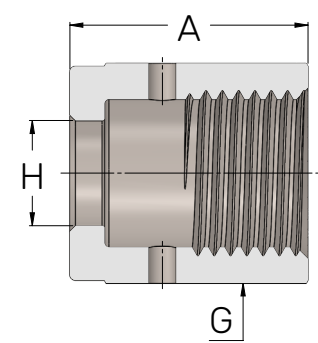
VMS-P  
VMS 堵塞頭  
VMS PLUG



| VMS 尺寸<br>VMS SIZE | 編號<br>PART NO. | F      | A    |
|--------------------|----------------|--------|------|
| 1/8                | BS6-VMS-P01    | 10     | 17.3 |
| 1/4                | BS6-VMS-P02    | 5/8"   | 23.4 |
| 1/2                | BS6-VMS-P04    | 15/16" | 28.1 |
| 3/4                | BS6-VMS-P06    | 1 3/8" | 37.4 |

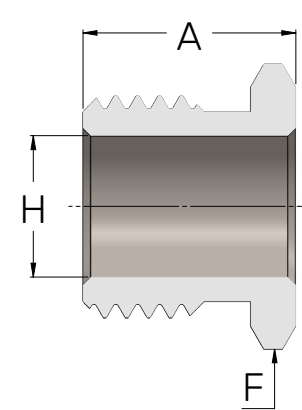
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VMS-N/F  
VMS 內牙螺母  
VMS FEMALE NUT



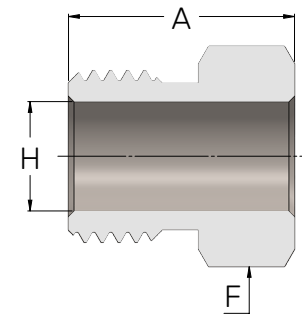
| VMS 尺寸<br>VMS SIZE | 編號<br>PART NO. | H    | G       | A    |
|--------------------|----------------|------|---------|------|
| 1/8                | VMS-N01F       | 5.3  | 7/16    | 13.5 |
| 1/4                | VMS-N02F       | 9.1  | 3/4"    | 20.6 |
| 1/2                | VMS-N04F       | 15.5 | 1 1/16" | 22.4 |
| 3/4                | VMS-N06F       | 22.6 | 1 1/2"  | 28.4 |

VMS-N/MS  
VMS 外牙短螺母  
VMS SHORT MALE NUT



| VMS 尺寸<br>VMS SIZE | 編號<br>PART NO. | H   | F    | A    |
|--------------------|----------------|-----|------|------|
| 1/4                | VMS-N02MXS     | 9.1 | 5/8" | 13.7 |
| 1/4                | VMS-N02MS      | 9.1 | 5/8" | 16.5 |

VMS-N/M  
VMS 外牙螺母  
VMS MALE NUT



| VMS 尺寸<br>VMS SIZE | 編號<br>PART NO. | H    | F      | A    |
|--------------------|----------------|------|--------|------|
| 1/8                | VMS-N01M       | 5.3  | 10     | 14.4 |
| 1/4                | VMS-N02M       | 9.1  | 5/8"   | 18.8 |
| 1/2                | VMS-N04M       | 15.5 | 15/16" | 23.1 |
| 3/4                | VMS-N06M       | 22.6 | 1 3/8" | 26.0 |

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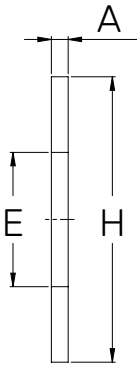
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ORDERING INFORMATION 選型表

| BS6 -                     | GK           | O1       |
|---------------------------|--------------|----------|
| 產品大類及材質                   | 產品名稱         | VMS 尺寸   |
| CLASSIFICATION & MATERIAL | PRODUCT NAME | VMS SIZE |
| BS6：接頭類 SS316L            | GK：VMS 墊片    | O1：1/8"  |
| SS316L FITTING            | VMS GASKET   |          |
| BNI：接頭類 鎳                 |              | O2：1/4"  |
| NI FITTING                |              |          |
|                           |              | O4：1/2"  |
|                           |              | O6：3/4"  |
|                           |              | O8：1"    |

| 墊片 GASKET |                      |           |
|-----------|----------------------|-----------|
| 鎳         | Nickel               | ASTM F3   |
| 316L 不鏽鋼  | 316L Stainless Steel | ASTM A240 |

GK  
VMS 墊片  
VMS GASKET



| VMS 尺寸<br>VMS SIZE | 編號<br>PART NO. | 通孔徑<br>ORIFICE E | H    | A   |
|--------------------|----------------|------------------|------|-----|
| 1/8                | GK01           | 2.3              | 6.6  | 0.7 |
| 1/4                | GK02           | 5.6              | 11.9 |     |
| 1/2                | GK04           | 11.2             | 19.8 |     |
| 3/4                | GK06           | 16.8             | 29.0 |     |
| 1                  | GK08           | 22.6             | 35.6 |     |

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