

► SF₆ REFILLING KIT REF101-XX

DESCRIPTION

- Ideal for: **Refilling** the equipment directly from high-pressure cylinder
- The SF₆ pressure in the compartment can be easily **adjusted using the knob** on the pressure reducer
- All connections are **molecular sealed**: the absence of SF₆ gas leaks is guaranteed and certified by Helium and SF₆ leak tests
- Available in **5 different versions** to meet all equipment needs



REF101-01	SF ₆ Refilling Kit Low
REF101-02	SF ₆ Refilling Kit Classic
REF101-03	SF ₆ Refilling Kit Medium
REF101-04	SF ₆ Refilling Kit Standard
REF101-05	SF ₆ Refilling Kit Full

PROVIDED DOCUMENTS

📄 Helium Leak Test Certificate
(UNI EN ISO 9712 - SNT TC1A)

📄 Operating manual



► **SF₆ REFILLING KIT**
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TECHNICAL SPECIFICATIONS

KIT:	SF ₆ Refilling Kit Low SF ₆ Refilling Kit Classic SF ₆ Refilling Kit Medium	SF ₆ Refilling Kit Standard SF ₆ Refilling Kit Full
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Length (mm)	460	555
Width (mm)	360	428
Height (mm)	180	211
Weight (kg)	9 ÷ 12	15

STANDARD EQUIPMENT

Analog manometer 0 ÷ 60 bar at pressure reducer inlet (high pressure)

Analog manometer 0 ÷ 12 bar at pressure reducer outlet (low pressure)¹

Digital precision manometer 0 ÷ 11 bar abs²

Cylinder connection SF₆ W 21.8 x 1/14"

Rubber hose 5 m DN8 with DN8 coupling valves

Safety valve set at 5 bar installed on DN8 coupling valve³

Safety valve set at 8 bar installed on DN8 coupling valve³

Coupling valve Adapter DN20/DN8

4-way distributor with DN8 coupling valves³

Magrini adapter Ø14 with DN8 coupling valve⁴

Magrini adapter Ø16 with DN8 coupling valve⁴

ASEA Adapter with DN8 coupling valve⁴

DN8 Male Coupling valve adapter - DN8 Male coupling valve⁵

Michelin adapter with DN8 coupling valve⁴

Digital pressure manometer kit (with DN8 and DN20 quick coupler adapters)⁵

CERTIFICATES ISSUED

📄 Certificate of Reduction unit testing

📄 Helium Leak Test Certificate
(UNI EN ISO 9712- SNT TC1A)

📄 Digital precision pressure manometer

Calibration Certificate

📄 Safety valve Calibration Certificate

📄 Safety valves INAIL Certificate

¹ Refilling Kit Low, Refilling Kit Classic, Refilling Kit Full

² Refilling Kit Medium, Refilling Kit Standard

³ Refilling Kit Classic, Refilling Kit Medium, Refilling Kit Standard, Refilling Kit Full

⁴ Refilling Kit Standard, Refilling Kit Full

⁵ Refilling Kit Full



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COMPONENTS DESCRIPTION

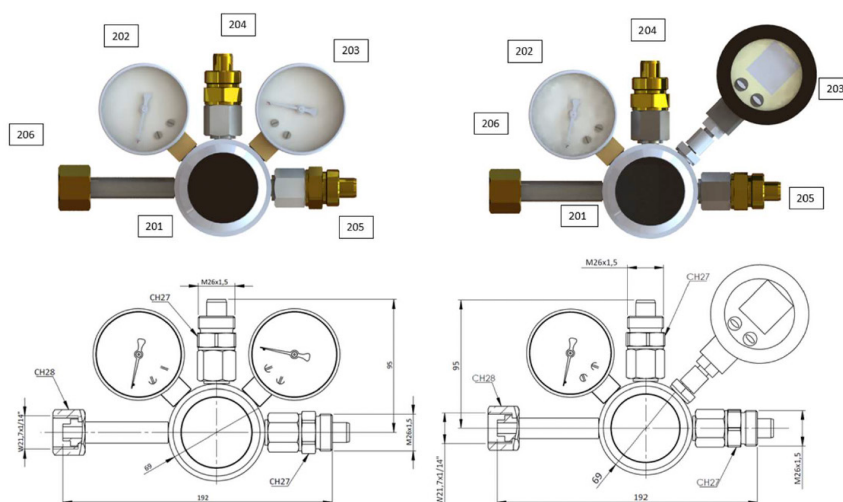


- 101** Pressure reducer 1.5 ÷ 15 bar with SF₆ W 21,8x1/14" cylinder connection
- 102** DN8 5 m rubber hose with DN8 female coupling valves
- 103** Digital precision pressure manometer 0 ÷ 11 bar abs at pressure reducer outlet
- 104** Quick connect adapter - DN20 coupling valve
- 105** Quick connect adapter – DN8 coupling valve
- 106** Safety valve installed on DN8 coupling valve
- 107** 4-way distributor with DN8 coupling valves
- 108** Coupling Valve Adapter DN20/DN8
- 109** Magrini adapter Ø14 with DN8 coupling valve
- 110** Magrini adapter Ø16 with DN8 coupling valve
- 111** ASEA Adapter with DN8 coupling Valve
- 112** Adapter connecting valve DN8 male - connecting valve DN8 male
- 113** Michelin adapter with DN8 coupling valve



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PRESSURE REDUCER



- 201** | Pressure reducer 0 ÷ 10 bar.
- 202** | Analog manometer 0 ÷ 60 bar at pressure reducer inlet.
- 203** | Analog manometer 0 ÷ 12 bar at pressure reducer outlet / Digital precision manometer 0 ÷ 11 bar abs⁶
- 204** | DN8 coupling valve (for safety valve connection ref. 106 and 107)
- 205** | DN8 coupling valve (for pipe connection ref. 102)
- 206** | SF₆ W 21.8x1/14" cylinder connection with sealing washer

⁶ Refilling Kit Medium, Refilling Kit Standard



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PRESSURE REDUCER

Materials: chromed brass

Input pressure (high pressure): 0 ÷ 60 bar

Outlet pressure (low pressure): 0 ÷ 15 bar

Cylinder connection SF₆ W21.8x1/14"

Analog input manometer (high pressure): 0 ÷ 60 bar

Analog outlet pressure gauge (low pressure): 0 ÷ 12 bar / Digital precision pressure manometer 0 ÷ 11 bar abs

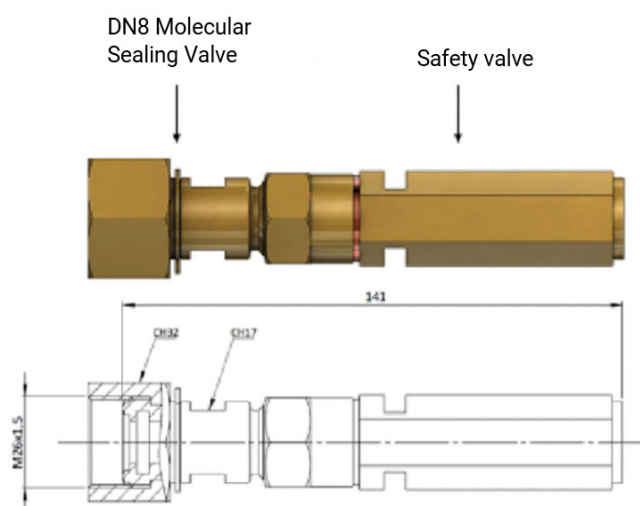
SAFETY VALVE KIT⁷

The SF₆ Refilling Reducer Kit includes two (or more on request) safety valves: each one is calibrated to a determined pressure of intervention.

The intervention pressure of the two standard valves is respectively:

- 5 bar;
- 8 bar;
- on customer's request.

Safety valves are directly assembled on DN8 coupling valves forming the **safety valve assembly**.



⁷ Refilling Kit Classic, Refilling Kit Medium, Refilling Kit Standard, Refilling Kit Full



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DIGITAL PRECISION MANOMETER⁸

TECHNICAL SPECIFICATIONS:

Pressure range: 0 ÷ 11 bar abs

Accuracy: 0.1 %FS standard - 0.2 %FS max

Service/operating temperature: 20...70 °C / 0...50 °C

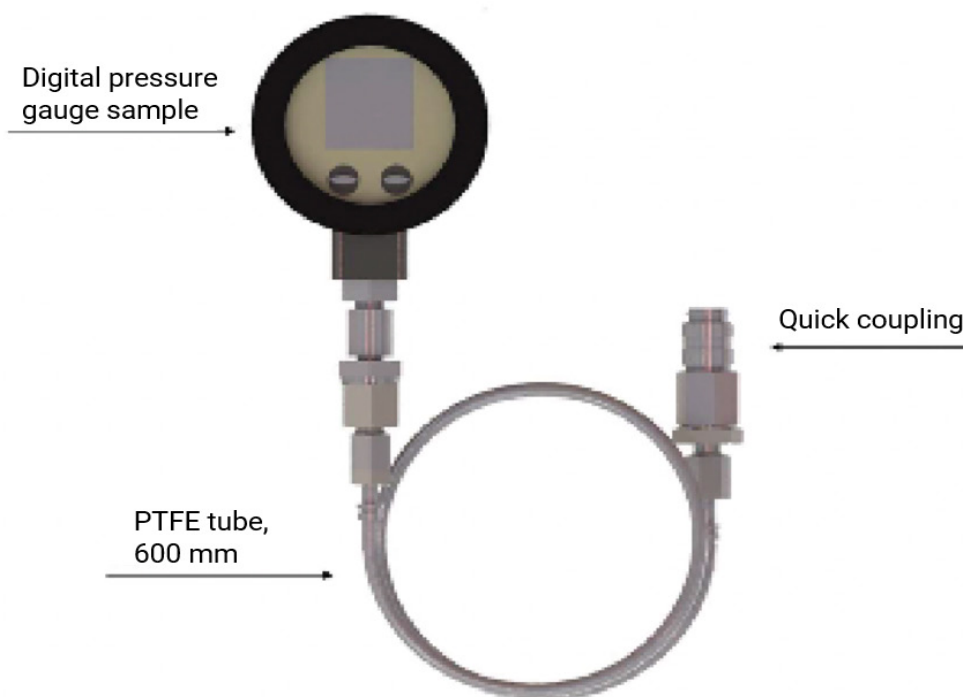
Power supply: 3 V battery, type CR 2430

Battery life: 1000 hours in continuous operation

Protection, CEI 529: IP65

ADDITIONAL COMPONENTS

- ☆ The pressure manometer is supplied installed directly on a highly flexible 600 mm long PTFE tube⁹.
- ☆ The pressure manometer is supplied with DN20 and DN8 quick coupling adapters which are detailed in chapter 6.5 (adapters supplied)¹⁰.



⁸ Refilling Kit Medium, Refilling Kit Standard (supplied mounted directly on the reducer), Refilling Kit Full (independently supplied)

⁹ Refilling Kit Full

¹⁰ Refilling Kit Full



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RUBBER HOSE DN8 64 BAR

WITH COUPLING VALVES

The SF₆ Refilling Reducer Kit includes a **rubber hose** with:

- Hose length: 5 m;
- Hose diameter: DN8;
- PN64

Two DN8 coupling female valves are assembled at each end of the hose to ensure **perfect gas tightness inside the hose**.

The valves open only when they are coupled to the respective DN8 male coupling valves.

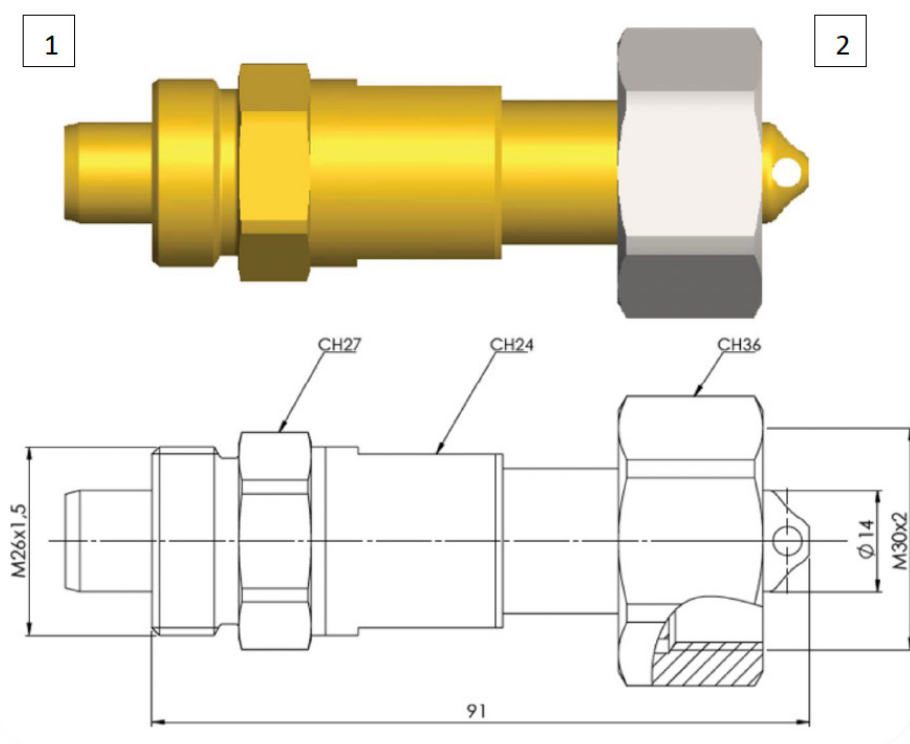


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COMPONENTS DESCRIPTION

VAL102-06-V: MAGRINI Ø14 ADAPTER

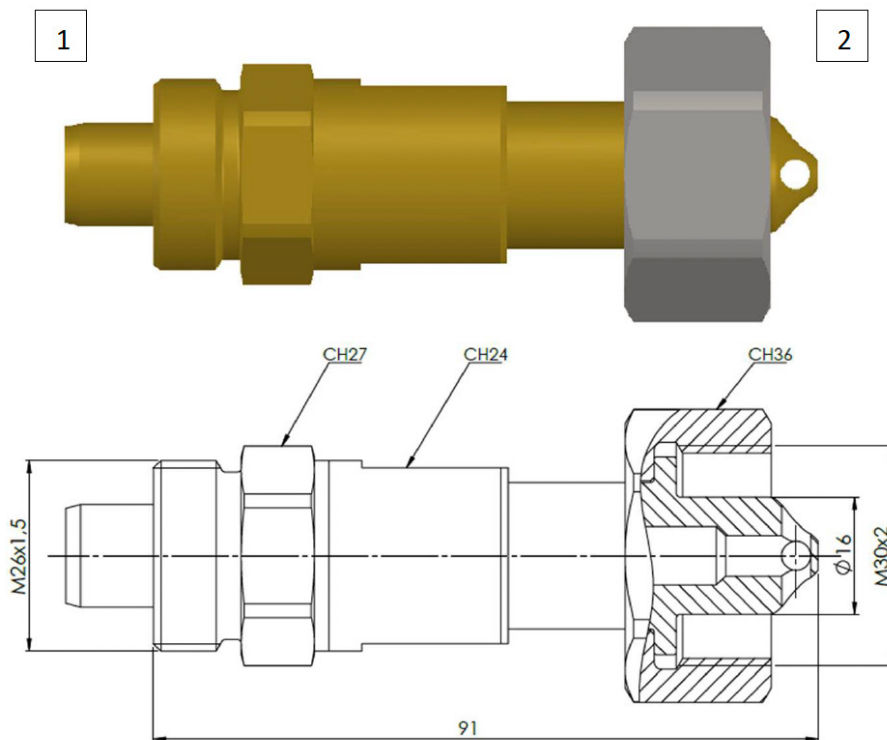
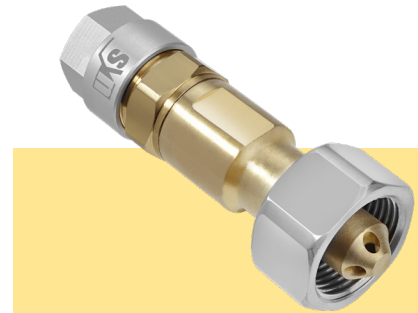
- ✓ Connection 1: DN8 male coupling valve M26x1,5
- ✓ Connection 2: Ø14 Magrini connection
- ✓ PN64
- ✓ Materials: Body: Brass - Nut: AISI 304



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VAL102-07-V: MAGRINI Ø16 ADAPTER

- ✓ Connection 1: DN8 male coupling valve M26x1,5
- ✓ Connection 2: Magrini Ø16 connection
- ✓ PN64
- ✓ Materials: Body: Brass - Nut: AISI 304



¹² Refilling Kit Standard, Refilling Kit Full

Synecom SRL
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synecomsf6.com

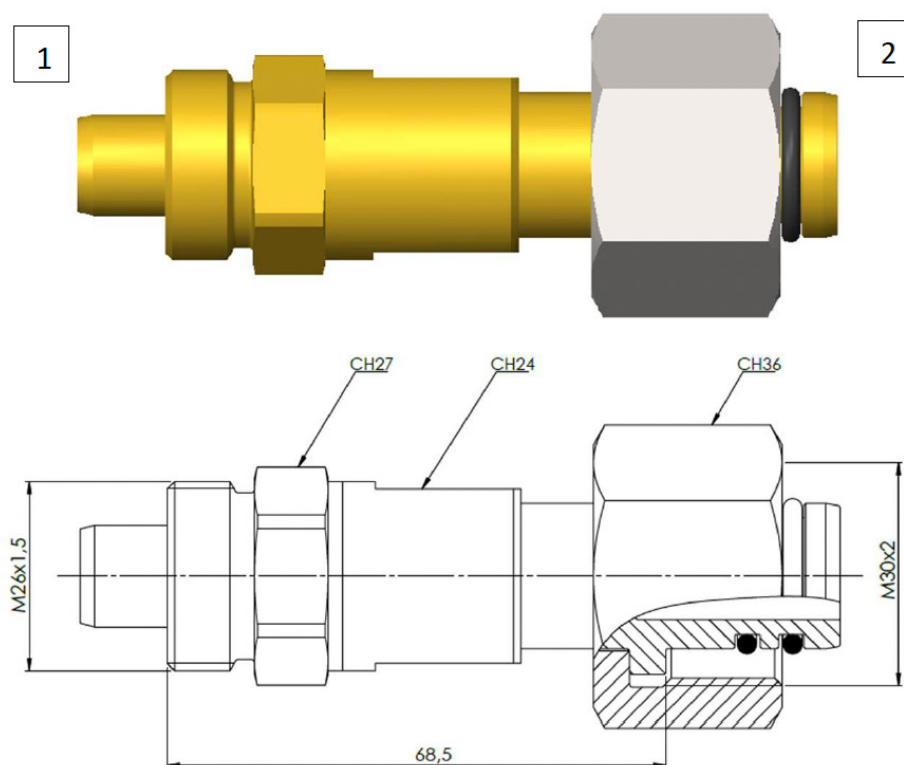
**FOR FURTHER
INFORMATION
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► **SF₆ REFILLING KIT LOW**
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VAL102-08-V: COUPLING VALVE ADAPTER DN8 MALE - ASEA

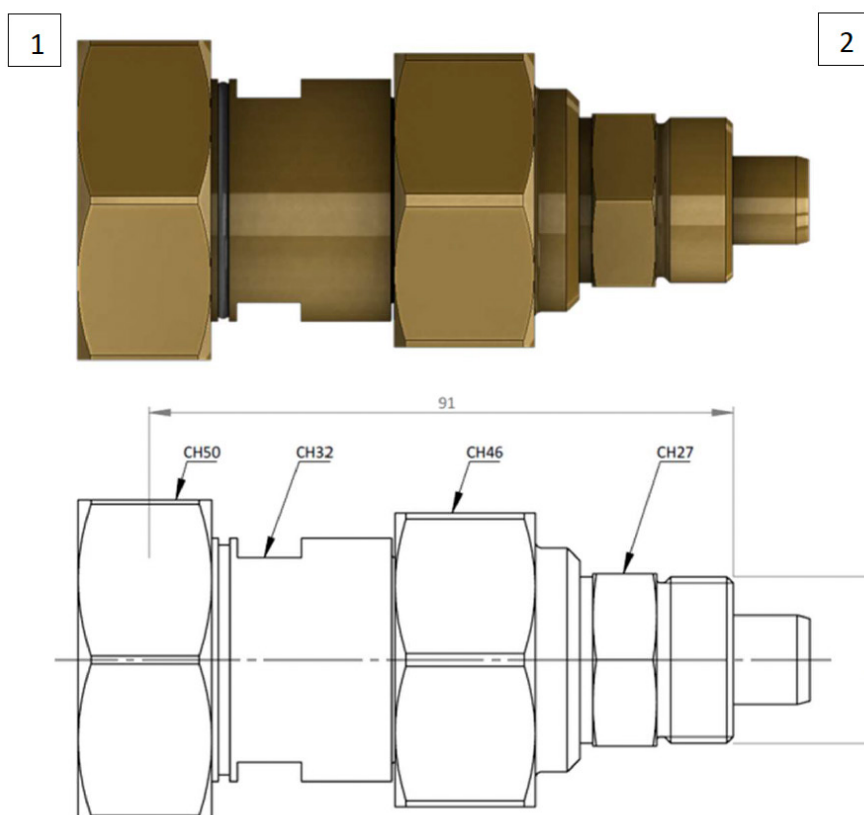
- ✓ Connection1: Molecular seal connection valve DN8 male M26x1,5
- ✓ Connection 2: ASEA connection
- ✓ PN64
- ✓ Materials: Body: Brass



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VAL102-15-V: COUPLING VALVE ADAPTER DN20/DN8¹¹

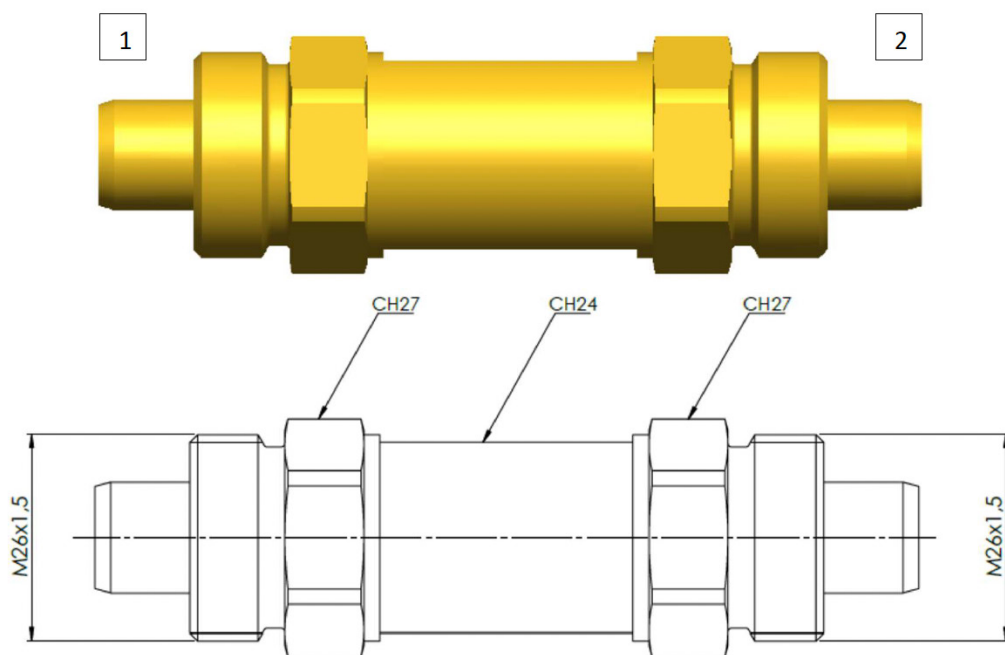
- ✓ Connection1: DN20 female Coupling valve M45x2
- ✓ Connection 2: DN8 male Coupling valve M26x1,5
- ✓ PN64
- ✓ Materials: Brass



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**VAL102-13-V: DN8 MALE COUPLING VALVE ADAPTER -
DN8 MALE COUPLING VALVE**

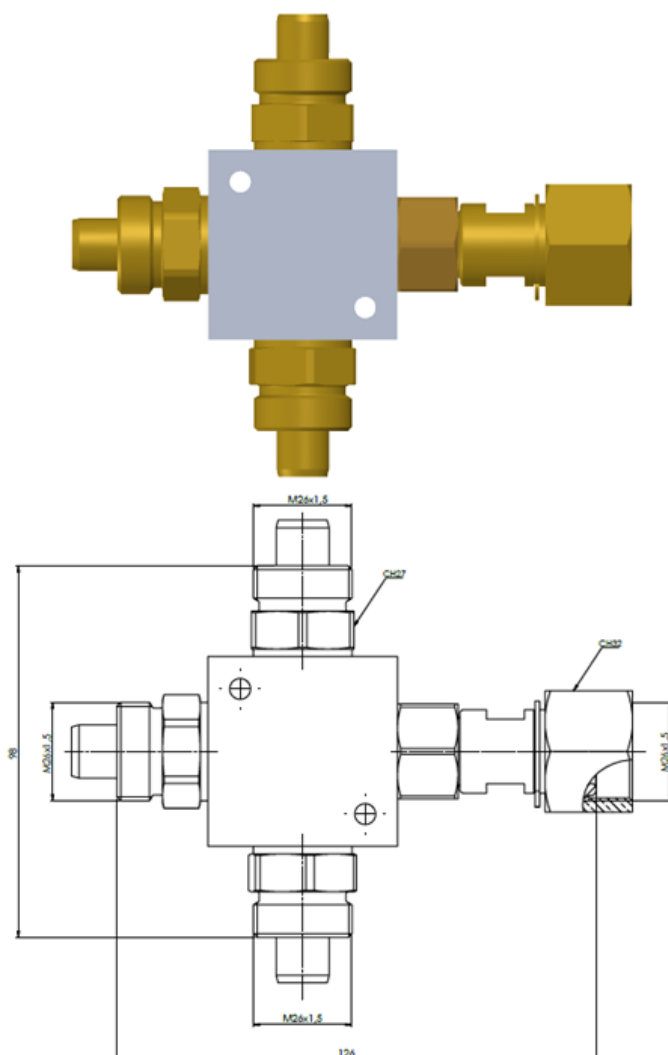
- ✓ Connection1: DN8 male Coupling valve M26x1,5
- ✓ Connection 2: DN8 male Coupling valve M26x1,5
- ✓ PN64
- ✓ Materials: Brass



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VAL102-19: 4-WAY DISTRIBUTOR WITH DN8 COUPLING VALVES

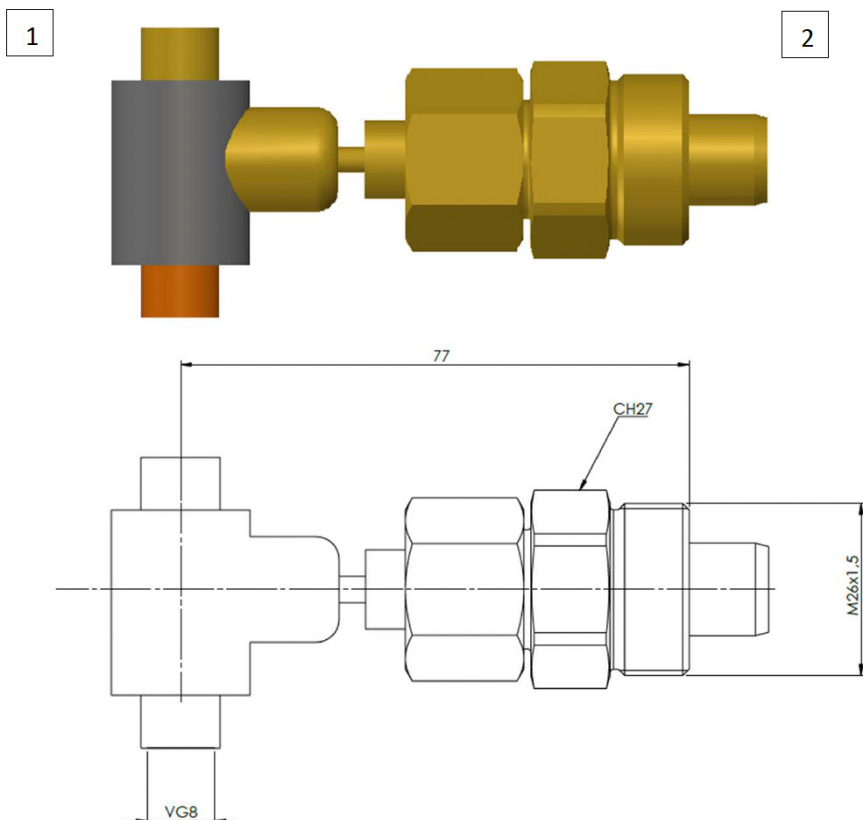
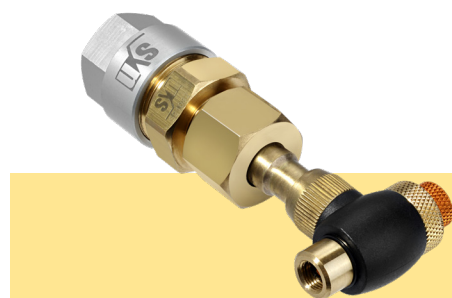
- ✓ Connection 1: DN8 male coupling valve M26x1,5
- ✓ Connection 2: DN8 male coupling valve M26x1,5
- ✓ Connection 3: DN8 male coupling valve M26x1,5
- ✓ Connection 4: DN8 female coupling valve M26x1,5
- ✓ PN64
- ✓ Materials: Body: aluminium - Valves: brass



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VAL102-02-V: MICHELIN VALVE ADAPTER - DN8 MALE COUPLING VALVE

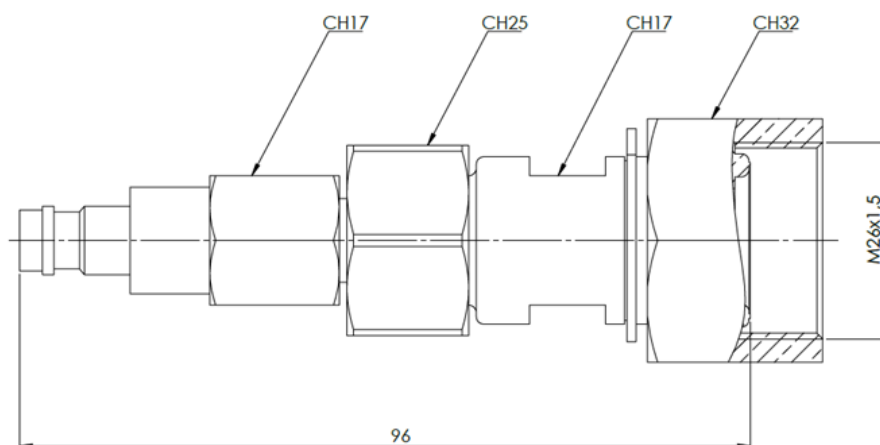
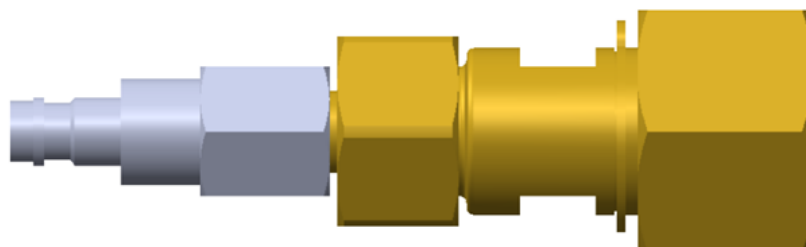
- ✓ Connection1: Michelin valve
- ✓ Connection 2: DN8 male coupling valve
- ✓ Materials: Body: Brass - Nut: AISI 304



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VAL102-50-V: DN8 MALE ADAPTER QUICK COUPLING - DN8 COUPLING VALVE

- ✓ Connection1: Male quick coupling
- ✓ Connection 2: DN8 female coupling valve M26x1,5
- ✓ PN35
- ✓ Materials: Body: Brass - Quick coupling: Chromed brass



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VAL103-50-V: DN20 MALE ADAPTER QUICK COUPLING - DN20 COUPLING VALVE

- ✓ Connection1: DN20 female coupling valve M45x2
- ✓ Connection 2: Male quick coupling
- ✓ PN35
- ✓ Material: Body: Brass - Quick coupling: Chromed brass

