# 3- SBM CATALOGUE

## 3.4- ACCESSORIES

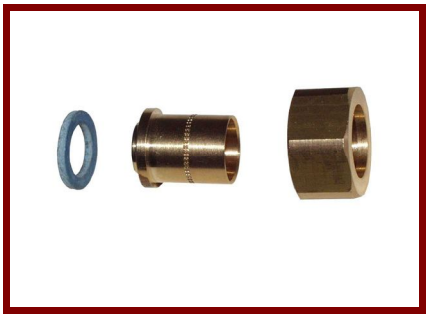
### 3.4.1- GAS ACCESSORIES



VDF G31-37 12G .....3.4.1.1
VDF G20-20 12G .....3.4.1.2
VDF G25-25 12G .....3.4.1.3



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FITTING FOR SOLDERING 12 12G .3.4.1.5
FITTING FOR SOLDERING 14 12G .3.4.1.6




SOL.VALVE 8X13 .....3.4.1.7
SOL.VALVE 15X21 .....3.4.1.8
SOL.VALVE 26X34 .....3.4.1.9

***Related sections :***

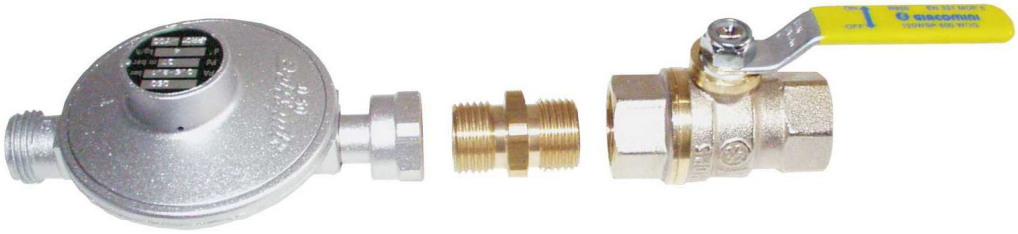
Burners .....3.2
Injector blocks and orifices .....3.3
Installation.....4
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## 3.4.1.1- **VDF G31-37 12G**

Assembly valve + fixed regulator.



***CONTENTS OF KIT***

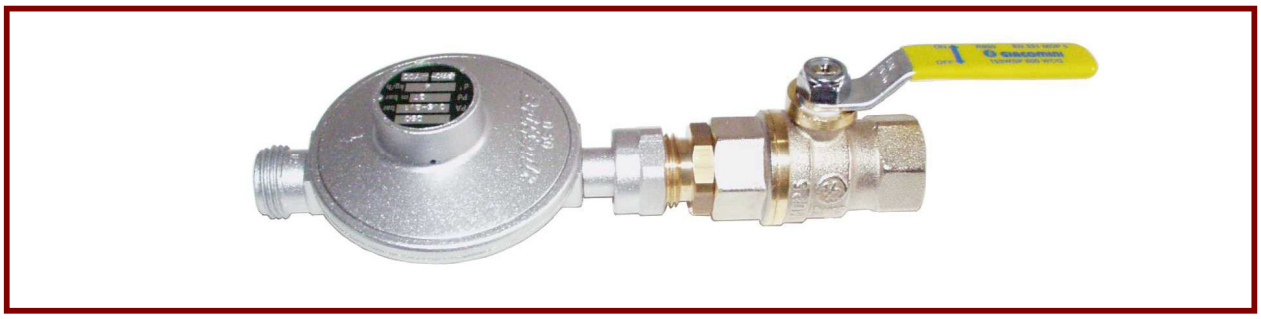


**C** **B** **A**

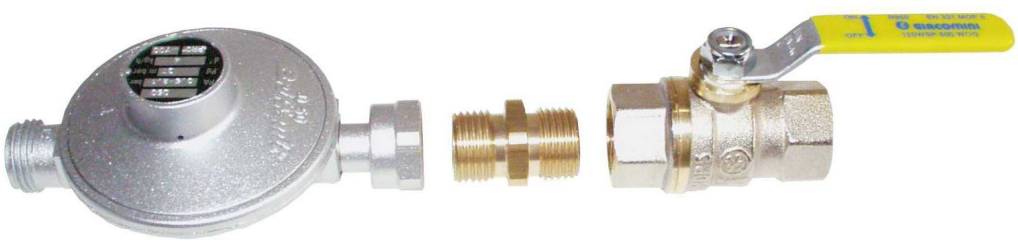
| | |
|---|---|
| Gas<br>Pressures: inlet<br>outlet<br>Maximum capacity | G31 (Propane)<br>0.2 bar mini, 2.1 bar maxi<br>37 mbar<br>4 kg/h |
| Fittings : inlet<br>outlet | G1/2" female<br>G1/2" male |
| Total length | Approx. 190 mm |
| Composition | (**A**) : 12Gf DN15 valve<br>I/O: G1/2" female<br>(**B**) : union fitting 12Gm / 12Gm<br>I/O : G1/2" male<br>(**C**) : DF64 12G G31-37 4kg/h<br>I : coupling nut G1/2" with washer and filter<br>O : G1/2" male |
| Application | Gas supply for all burners operating with G31-37. |

## 3.4.1.2- **VDF G20-20 12G**

Assembly valve + fixed regulator.



***CONTENTS OF KIT***



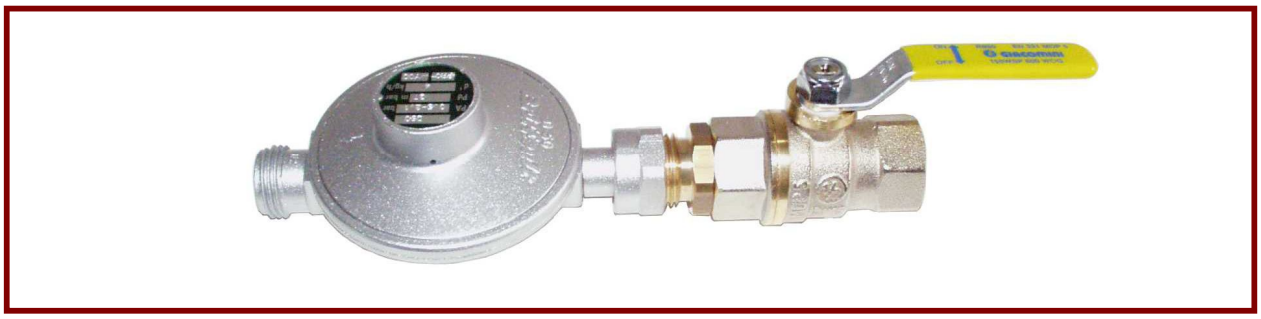
**C** **B** **A**



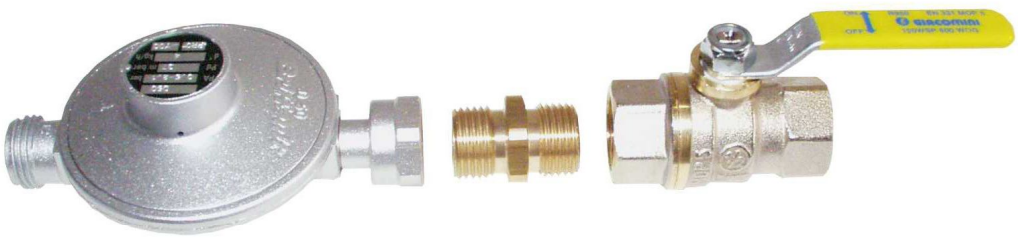

| | |
|---|---|
| Gas<br>Pressures : inlet<br>outlet<br>Maximum capacity | G20 (Natural gas type H)<br>0.2 bar min, 1.5 bar max<br>20 mbar<br>3 $m^3/h$ |
| Fittings : input<br>output | G1/2" female<br>G1/2" male |
| Total length | Approx. 190 mm |
| Composition | (**A**) : 12Gf DN15 valve<br>I/O : G1/2" female<br>(**B**) : union fitting 12Gm / 12Gm<br>I/O : G1/2" male<br>(**C**) : DF64 12G G20-20 3$m^3/h$<br>I : coupling nut G1/2" with washer and filter<br>O : G1/2" male |
| Application | Gas supply for all burners operating with G20-20. |

## 3.4.1.3- **VDF G25-25 12G**

Assembly valve + fixed regulator.



***CONTENTS OF KIT***



**C** **B** **A**




| | |
|---|---|
| Gas<br>Pressures : inlet<br>outlet<br>Maximum capacity | G25 (Natural gas type L)<br>0.2 bar min, 1.5 bar max<br>25 mbar<br>3 $m^3/h$ |
| Fittings : inlet<br>outlet | G1/2" female<br>G1/2" male |
| Total length | Approx. 190 mm |
| Composition | (**A**) : 12Gf DN15 valve<br>I/O : G1/2" female<br>(**B**) : union fitting 12Gm / 12Gm<br>I/O : G1/2" male<br>(**C**) : DF64 12G G25-25 3$m^3/h$<br>I : coupling nut G1/2" with washer and filter<br>O : G1/2" male |
| Application | Gas supply for all burners operating with G25-25. |

## 3.4.1.4- METALLIC HOSE 12GF 700

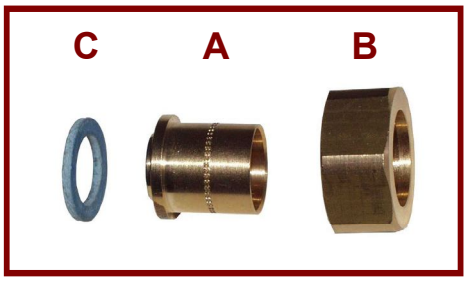
Flexible hose DN12 - 700 mm



| | |
|---|---|
| Gas<br>Operating pressure | All types<br>2.5 bar max. |
| Fittings : inlet / outlet | G1/2" male coupling nuts with viton washer |
| Length | 700 mm |
| Application | Flexible gas connection for all burners |

## 3.4.1.5- FITTING FOR SOLDERING 12 12G

Fitting for soldering 2 parts + washer

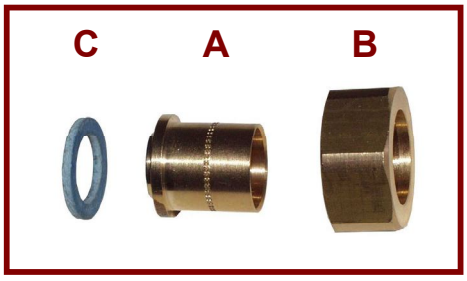



| Composition | |
|---|---|
| 1 fitting for soldering for copper tube **10x12** mm | (**A**) |
| 1 G1/2" nut | (**B**) |
| 1 viton washer | (**C**) |

| | |
|---|---|
| Application | Connecting burners to 12 mm OD copper piping. |

## 3.4.1.6- FITTING FOR SOLDERING 14 12G

Fitting for soldering 2 parts + washer




| Composition | |
|---|---|
| 1 fitting for soldering for copper tube **12x14** mm | (**A**) |
| 1 G1/2" nut | (**B**) |
| 1 viton washer | (**C**) |

| | |
|---|---|
| Application | Connecting burners to 14 mm OD copper piping. |

## 3.4.1.7- SOL.VALVE 8X13

Solenoid valve



***CONTENTS OF BOX***



***CONTENTS OF CONNECTOR BAG***



| | | |
|---|---|---|
| Operation | | Normally closed (**NC**) |
| Gas | | All types |
| Maximum operating pressure | | 40 bar |
| Minimum differential pressure | | 0 bar |
| Kv flow coefficient | | 10.5 l/mn |
| Fittings : | - inlet | G1/4" female marked **1** |
| | - outlet | G1/4" female marked **2** |
| Power supply | | 230V / 50Hz |
| Capacity : | - maximum | 23 VA |
| | - stable | 14 VA (8W) |
| Coil : | - watertightness | IP65 |
| | - insulation | Class F |
| Recommended mounting | | Horizontal flow, coil on top of the valve |
| Application | | Solenoid valve for installation of all burners |

## 3.4.1.8- SOL.VALVE 15X21

Solenoid valve




***CONTENTS OF BOX***




***CONTENTS OF CONNECTOR BAG***



| | | |
|---|---|---|
| Operation | | Normally closed (**NC**) |
| Gas | | All types |
| Maximum operating pressure | | 18 bar |
| Minimum differential pressure | | 0 bar |
| Kv flow coefficient | | 57 l/mn |
| Fittings : | - inlet | G1/2" female marked **IN** |
| | - outlet | G1/2" female marked **OUT** |
| Power supply | | 230V / 50Hz |
| Capacity : | - maximum | 55 VA |
| | - stable | 23 VA (10.5W) |
| Coil : | - watertightness | P65 |
| | - insulation | Class F |
| Recommended mounting | | Horizontal flow, coil on top of the valve |
| Application | | Solenoid valve for installation of all burners |

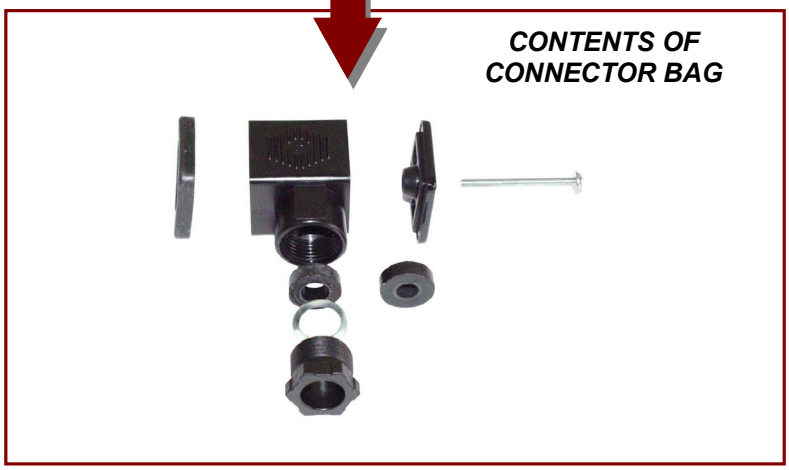
## 3.4.1.9- SOL.VALVE 26X34

Solenoid valve



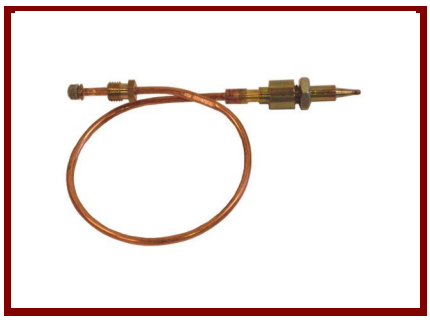







| | | |
|---|---|---|
| Operation | | Normally closed (**NC**) |
| Gas | | All types |
| Maximum operating pressure | | 18 bar |
| Minimum differential pressure | | 0 bar |
| Kv flow coefficient | | 185 l/mn |
| Fittings : | - inlet | G1" female marked **IN** |
| | - outlet | G1" female unmarked |
| Power supply | | 230V / 50Hz |
| Capacity : | - maximum | 110 VA |
| | - stable | 23.6 VA (15.4W) |
| Coil : | - watertightness | IP65 |
| | - insulation | Class F |
| Recommended mounting | | Horizontal flow, coil on top of the valve |
| Application | | Solenoid valve for installation of all burners |

### 3.4.2- ELECTRIC ACCESSORIES



THERMOCOUPLE FA .....3.4.2.1



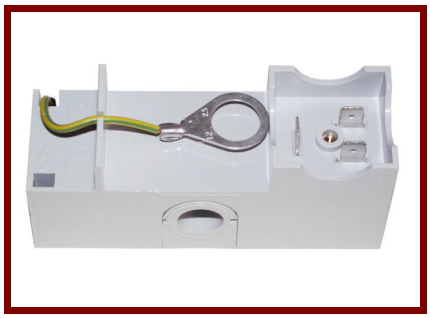
THERMOCOUPLE 1200 .....3.4.2.2



IGNITER .....3.4.2.3



IGNITER 1200 .....3.4.2.4



BA BLOCK .....3.4.2.5

# 3- SBM CATALOGUE



BA BRACKETS .....3.4.2.6



BA NUT .....3.4.2.7



PREWIRED PLUG 1M/3FT .....3.4.2.8



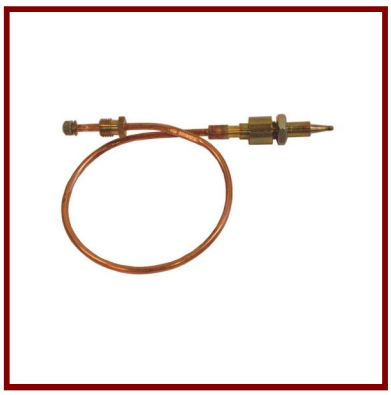
PREWIRED PLUG 3M/10FT .....3.4.2.9

***Related sections :***

Burners .....3.2
Injector blocks and orifices .....3.3
Installation.....4
Operation.....5
Maintenance.....6
Trouble-shooting .....7
Spare parts.....8

### 3.4.2.1- **THERMOCOUPLE FA**

Fast-acting thermocouple.



| | |
|---|---|
| Length | 330 mm |
| Application | Flame safety for the injector blocks :<br>U-M-000-000-00-A-12G (see **3.3.2.1**)<br>U-E-000-000-00-A-12G (see **3.3.3.1**)<br>U-E-000-000-00-D-12G (see **3.3.3.2**) |
| Assembly | On the fixing plate supplied with the appropriate burner (see **4.1**) |

### 3.4.2.2- **THERMOCOUPLE 1200**

Extended thermocouple.



| | |
|---|---|
| Length | 1200 mm |
| Application | Flame safety for the injector blocks :<br>U-M-000-000-00-A-12G (see **3.3.2.1**)<br>U-E-000-000-00-A-12G (see **3.3.3.1**)<br>U-E-000-000-00-D-12G (see **3.3.3.2**) |
| Assembly | On the fixing plate supplied with the appropriate burner (see **4.1**) |

Use this adapter for connection to the injector block.

(see **4.4.2.3**)

### 3.4.2.3- **IGNITER**

Ignition electrode.



| | |
|---|---|
| Length | 250 mm |
| Application | Electronic ignition for the injector blocks :<br>U-E-000-000-00-A-12G (see **3.3.3.1**)<br>U-E-000-000-00-D-12G (see **3.3.3.2**) |
| Assembly | On the fixing plate supplied with the appropriate burner (see **4.1**) |

### 3.4.2.4- IGNITER 1200

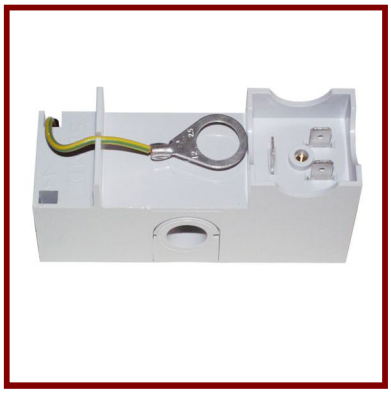
Extended ignition electrode.



| | |
|---|---|
| Length | 1200 mm |
| Application | Electronic ignition for the injector blocks :<br>U-E-000-000-00-A-12G (see **3.3.3.1**)<br>U-E-000-000-00-D-12G (see **3.3.3.2**) |
| Assembly | On the fixing plate supplied with the appropriate burner (see **4.1**) |

### 3.4.2.5- BA BLOCK

Electronic ignition block.



| | |
|---|---|
| Power supply | 230V (+10%, -15%) / 50Hz - 60Hz<br>Neutral compulsory |
| Comsumption | 0.1A |
| Ignition cycle duration | 45 seconds |
| Connection | Use a prewired plug<br>length 1m or 3m - 3 x 0.75mm$^2$<br>(see **3.4.2.8** and **3.4.2.9**) |
| Application | Electronic ignition for the injector blocks :<br>U-E-000-000-00-A-12G (see **3.3.3.1**)<br>U-E-000-000-00-D-12G (see **3.3.3.2**) |
| Assembly | On the injector blocks (see **4.3.3**) |

***The BA block should never be under tension during more than 45 seconds.***

### 3.4.2.6- BA BRACKETS

Metal brackets for BA block.



| | |
|---|---|
| Application | Electronic ignition for the injector blocks :<br>U-E-000-000-00-A-12G (see **3.3.3.1**)<br>U-E-000-000-00-D-12G (see **3.3.3.2**) |
| Assembly | On the injector blocks (see **4.3.3**) |

### 3.4.2.7- **BA NUT**

Securing nut for BA block.



| | |
|---|---|
| Application | Electronic ignition for the injector blocks :<br>U-E-000-000-00-A-12G (see **3.3.3.1**)<br>U-E-000-000-00-D-12G (see **3.3.3.2**) |
| Assembly | On the injector blocks (see **4.3.3**) |

### 3.4.2.8- **PREWIRED PLUG 1M/3FT**

Connector with built-in washer and captive screw, pre-wired with 3 conductors.



| | |
|---|---|
| Type of wire | HO5-RRF 3 x 0.75mm$^2$ |
| Length | 1m |
| Colour code | Green/yellow : earth<br>Blue : neutral<br>Brown : live |
| Application | Electronic ignition for the injector blocks:<br>U-E-000-000-00-A-12G (see **3.3.3.1**)<br>U-E-000-000-00-D-12G (see **3.3.3.2**) |
| Assembly | On the BA block (see **4.6.1**) |

### 3.4.2.9- **PREWIRED PLUG 3M/10FT**

Connector with built-in washer and captive screw, pre-wired with 3 conductors.



| | |
|---|---|
| Type of wire | HO5-RRF 3 x 0.75mm$^2$ |
| Length | 3m |
| Colour code | Green/yellow : earth<br>Blue : neutral<br>Brown : live |
| Application | Electronic ignition for the injector blocks :<br>U-E-000-000-00-A-12G (see **3.3.3.1**)<br>U-E-000-000-00-D-12G (see **3.3.3.2**) |
| Assembly | On the BA block (see **4.6.1**) |