



for manifolds, tapping points and single cylinders

Flashback arrestors provide protection against: Flashbacks, passage of gas in the direction opposite to flow and burnbacks.

FLAME ARRESTOR

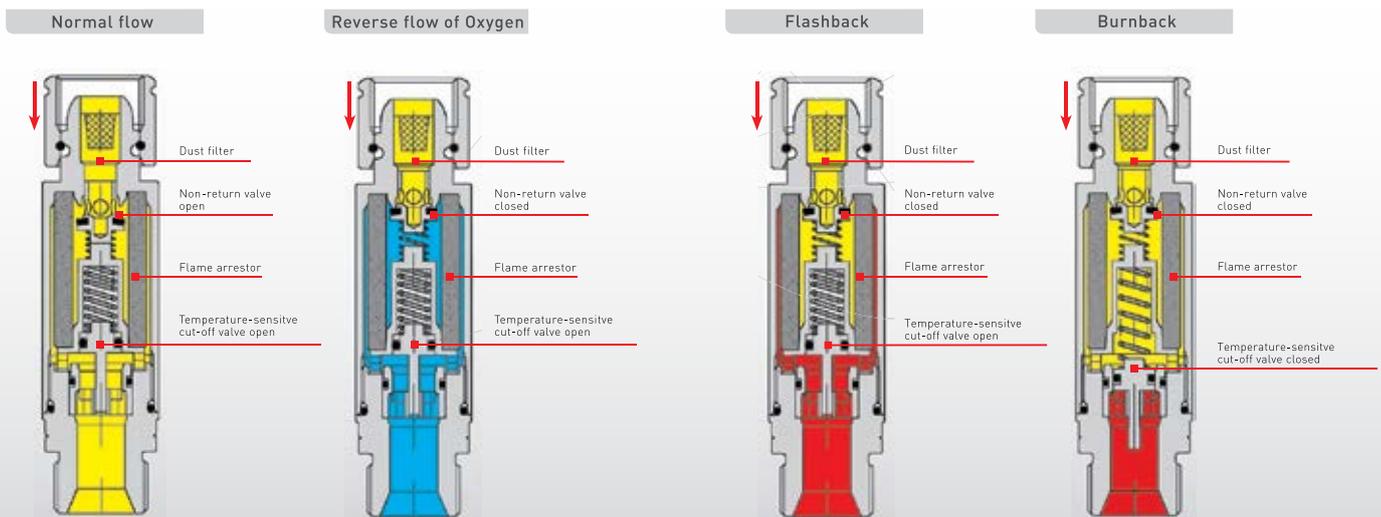
A stainless steel sintered element stops any flashback from the gas outlet side. The flame is cooled below the specific gases ignition temperature, so that the fuel gases on the inlet side cannot be ignited, thus quenching the flashback.

GAS NON-RETURN VALVE

Valve is held open by energy in gas stream and closes when downstream pressure is approximately equal to or greater than that in normal direction of flow.

TEMPERATURE-SENSITIVE CUT-OFF VALVE

A spring loaded valve is held open by a fusible alloy that is activated by reaching a specific temperature range, once activated this shuts off the gas flow.



CERTIFIED SAFETY



Regulator Mount Flashback Arrestors Screw On Type

DGN

The standard safety device for industries and small enterprises. The type DGN covers the most applications and can be used on tapping points as well as on single cylinders.

| Part # | Product | Gas Type | Inlet Connection | Outlet Connection |
|-----------|---------|----------|------------------|-------------------|
| 3001-2684 | DGN-A | Fuel Gas | ¼"-LH-NUT | ¼"-LH-THREAD |
| 3001-6221 | DGN-S | Oxygen | ¼"-RH-NUT | ¼"-RH-THREAD |
| 3001-5767 | DGN-A | Fuel Gas | 9/16"-LH-NUT | 9/16"-LH-THREAD |
| 3001-5768 | DGN-S | Oxygen | 9/16"-RH-NUT | 9/16"-RH-THREAD |
| 3001-5762 | DGN-A | Fuel Gas | 3/8"-LH-NUT | 3/8"-LH-THREAD |
| 3001-5766 | DGN-S | Oxygen | 3/8"-RH-NUT | 3/8"-RH-THREAD |

Safety device to EN 730-1, ISO 5175



Safety elements:

- Gas non-return valve NV
- Flame arrester FA
- Thermal cut-off valve TV

Dust filter promotes long life

High Volume

DG91N

Model DG91 N for protection of single cylinder and tapping points

The Safety device DG91 N according to EN 730-1, ISO 5175:

- Avoids dangerous gas mixtures by a gas non-return valve (NV)
- Stops flashback through flame arrester (FA)
- A temperature-sensitive cut-off valve stops the gas flow when a predetermined temperature is exceeded (TV)
- A dust filter protects the gas non-return valve against contamination
- Every safety device is 100 % tested

| Part # | Product | Gas Type | Inlet Connection | Outlet Connection |
|-----------|---------|----------|------------------|-------------------|
| 3001-5928 | DG91N-A | Fuel Gas | 9/16"-LH-NUT | 9/16"-LH-THREAD |
| 3001-5929 | DG91N-S | Oxygen | 9/16"-RH-NUT | 9/16"-RH-THREAD |
| 3001-5926 | DG91N-A | Fuel Gas | 3/8"-LH-NUT | 3/8"-LH-THREAD |
| 3001-5927 | DG91N-S | Oxygen | 3/8"-RH-NUT | 3/8"-RH-THREAD |

Safety Device according to EN730-1, ISO 5175, AS 4603, TRAC 207



Safety elements:

- Gas non-return valve NV
- Flame arrester FA
- Temperature-sensitive cut-off valve TV

Dust filter promotes long life

Regulator Mount Flashback Arrestors Quick Coupling Type

DGNK

For connecting at Cylinder-Regulators and Tapping Points.

| Part # | Product | Gas Type | Inlet Connection | Outlet Connection |
|-----------|---------|----------|------------------|-------------------|
| 3001-5753 | DGNK-A | Fuel Gas | 9/16"-LH-NUT | 8mm Tail |
| 3001-5754 | DGNK-S | Oxygen | 9/16"-RH-NUT | 8mm Tail |
| 3001-5751 | DGNK-A | Fuel Gas | 3/8"-LH-NUT | 8mm Tail |
| 3001-5752 | DGNK-S | Oxygen | 3/8"-RH-NUT | 8mm Tail |

Safety Device according to EN 730-1, ISO 5175

With Coupling according to EN 561, ISO 7289



Safety elements:

- Gas non-return valve NV
- Flame arrester FA
- Gas shut-off TV

Dust filter promotes long life

Torch Mount Flashback Arrestors Screw On Type

GG / GT

Short and light by design, GT offers highest possible safety and comfort for the user. The new tail piece design guarantees safe connection and hose protection.

| Part # | Product | Gas Type | Inlet Connection | Outlet Connection |
|-----------|---------|----------|------------------|-------------------|
| 3001-7376 | GG-A | Fuel Gas | 9/16"-LH-NUT | 9/16"-LH-THREAD |
| 3001-7375 | GG-S | Oxygen | 9/16"-RH-NUT | 9/16"-RH-THREAD |
| 3001-2650 | GG-A | Fuel Gas | 3/8"-LH-NUT | 3/8"-LH-THREAD |
| 3001-2649 | GG-S | Oxygen | 3/8"-RH-NUT | 3/8"-RH-THREAD |
| 3001-6010 | GT-A | Fuel Gas | 6.3mm Tail | 1/4"-LH-NUT |
| 3001-6008 | GT-S | Oxygen | 6.3mm Tail | 1/4"-RH-NUT |
| 3001-5771 | GT-A | Fuel Gas | 8mm Tail | 9/16"-LH-NUT |
| 3001-5772 | GT-S | Oxygen | 8mm Tail | 9/16"-RH-NUT |
| 3001-5769 | GT-A | Fuel Gas | 8mm Tail | 3/8"-LH-NUT |
| 3001-5770 | GT-S | Oxygen | 8mm Tail | 3/8"-RH-NUT |



Safety elements:

- Gas non-return valve NV
- Flame arrestor FA

Dust filter promotes long life

Safety device to EN 730-1, ISO 5175

High Volume

DG91UA

Type DG91UA for torch side protection

The safety device DG91UA according to DIN EN ISO 5175-1:

- avoids dangerous gas mixtures by a gas non-return valve (NV)
- stops flashback through flame arrestor (FA)
- a dust filter protects the gas non-return valve against contamination
- every safety device is 100% tested
- all metal components in brass 2.0401 / spring 1.4310

| Part # | Product | Gas Type | Inlet Connection | Outlet Connection |
|-----------|----------|----------|------------------|-------------------|
| 3001-5922 | DG91UA-A | Fuel Gas | 9/16"-LH-NUT | 9/16"-LH-THREAD |
| 3001-5923 | DG91UA-S | Oxygen | 9/16"-RH-NUT | 9/16"-RH-THREAD |
| 3001-5924 | DG91UA-A | Fuel Gas | 3/8"-LH-NUT | 3/8"-LH-THREAD |
| 3001-5925 | DG91UA-S | Oxygen | 3/8"-RH-NUT | 3/8"-RH-THREAD |



Safety elements:

- Gas non-return valve NV
- Flame arrestor FA

Dust filter promotes long life

Safety Device according to DIN EN ISO 5175-1

Torch Mount Flashback Arrestors Quick Coupling Type

NKST

For In-Hose or Torch Side connection

An ideal combination for torch side protection. The integrated coupling enables a quick and safe change of work place and tools.

| Part # | Product | Gas Type | Inlet Connection | Outlet Connection |
|-----------|---------|----------|------------------|------------------------|
| 3001-5754 | NKST-A | Fuel Gas | 8mm Tail | 9/16" / 3/8"-LH-THREAD |
| 3001-5756 | NKST-S | Oxygen | 8mm Tail | 9/16" / 3/8"-RH-THREAD |



Safety elements:

- Gas non-return valve NV
- Flame arrestor FA
- Gas shut-off TV

Dust filter promotes long life

Safety Device according to EN 730-1, ISO 5175

With Coupling according to EN 561, ISO 7289

Regulator Mount Coupling Pins



| Part # | Product | Gas Type | Connection |
|-----------|------------------|----------|------------|
| 0069-0149 | N2-A x 8mm C-Pin | Fuel Gas | 8mm Tail |
| 0069-0152 | N2-S x 8mm C-Pin | Oxygen | 8mm Tail |

Torch Mount Coupling Pins



| Part # | Product | Gas Type | Connection |
|-----------|------------------|----------|--------------|
| 0069-0138 | N1-A C-Pin & Nut | Fuel Gas | 9/16"-LH-NUT |
| 0069-0144 | N1-S C-Pin & Nut | Oxygen | 9/16"-RH-NUT |
| 0069-0136 | N1-A C-Pin & Nut | Fuel Gas | 3/8"-LH-NUT |
| 0069-0142 | N1-S C-Pin & Nut | Oxygen | 3/8"-RH-NUT |

Quick Couplers



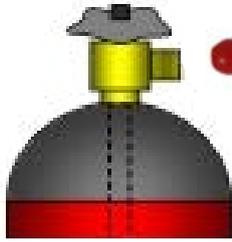
| Part # | Product | Gas Type | Connection |
|-----------|---------|----------|--------------|
| 3001-6255 | NKD-A | Fuel Gas | 9/16"-LH-NUT |
| 3001-6254 | NKD-S | Oxygen | 9/16"-RH-NUT |
| 3001-6581 | NKD-A | Fuel Gas | 3/8"-LH-NUT |
| 3001-5842 | NKD-S | Oxygen | 3/8"-RH-NUT |
| 3001-6194 | NKT-A | Fuel Gas | 8mm Tail |
| 3001-5833 | NKT-S | Oxygen | 8mm Tail |

| Types | DGN | DGNK | DG91N | GT | GG | NKST | DG91UA |
|---------------------------------|-----|------|-------|----|----|------|--------|
| Application | | | | | | | |
| Welding 0,5-14 mm | ■ | ■ | ■ | ● | ● | ● | ● |
| Welding 0,5-30 mm | ■ | ■ | ■ | ● | ● | ● | ● |
| Heating 0,5-14 mm | ■ | ■ | ■ | ● | ● | ● | ● |
| Heating 0,5-30 mm | ■ | ■ | ■ | ● | ● | ● | ● |
| Heating 30-100 mm | | | ■ | | | | ● |
| Heating → 100 mm | | | | | | | ● |
| Flame cutting up to 60mm | ■ | ■ | ■ | ● | ● | ● | ● |
| Flame cutting 3-200 mm | ■ | ■ | ■ | ● | ● | ● | ● |
| Flame cutting 50-700 mm | | | ■ | | | | ● |
| Flame cutting → 700mm | | | | | | | ● |
| Flame scarfing 50-200 mm | ■ | ■ | ■ | | | | ● |
| Flame scarfing 200-500 mm | | | ■ | | | | ● |
| Flame scarfing - 5 Flames | | | ■ | | | | ● |
| Brazing consumption 4000 l/h | ■ | ■ | ■ | | | | ● |
| Brazing consumption 12000 l/h | | | ■ | | | | ● |
| Brazing consumption → 12000 l/h | | | | | | | ● |
| Flame spraying | | | ■ | | | | ● |

■ For cylinder regulators or tapping points

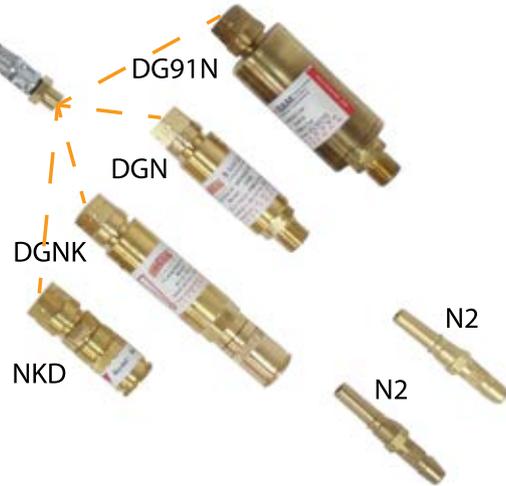
● For torches/cutting machines

**WE OFFER,
THROUGH
FAULTLESS
CUSTOMER
SERVICE, ONLY
THE BEST
WELDING
EQUIPMENT
AND
CONSUMABLES**



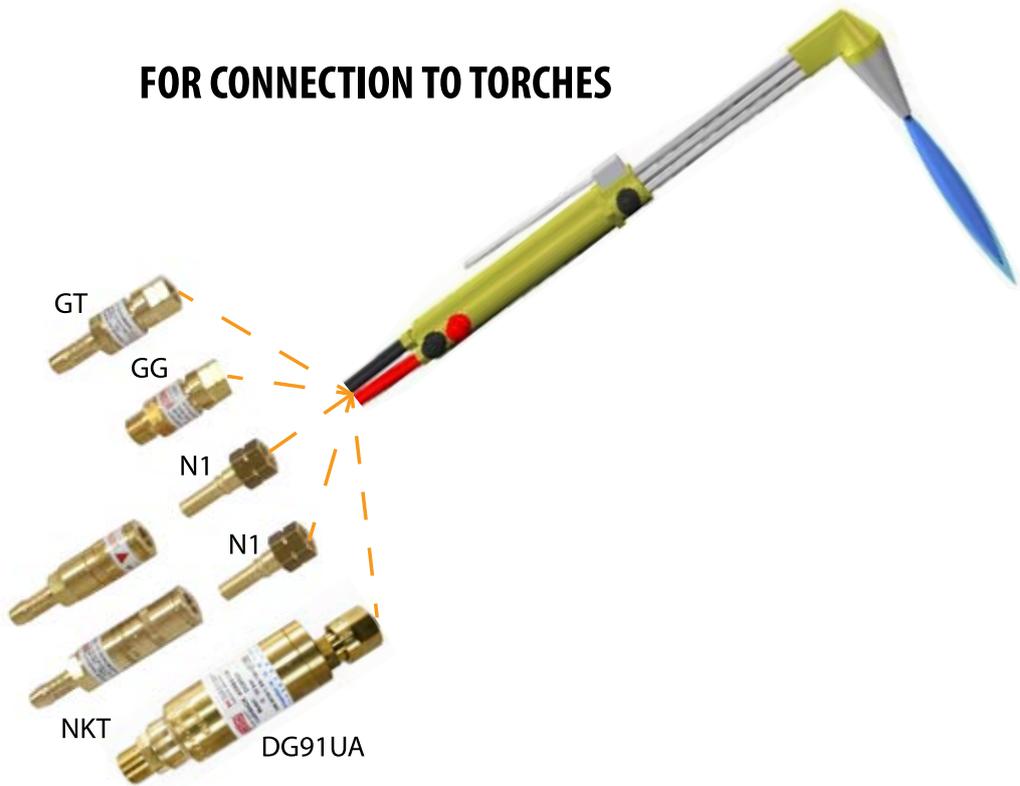
FOR REGULATOR CONNECTION

FLEXIBLE OUTLET



For extending hoses use N2 combined with NKT

FOR CONNECTION TO TORCHES





Safety devices have to be tested every year as detailed below. Without changing of position flow rate comparison checks can be made. Additionally the function of the pressure sensitive valve can be checked.

This equipment allows flow rates to be measured as well as testing the function of the pressure sensitive valve.

| | | | | | | | | |
|---|---|---|---|------------|------|------|------|------|
|  | | | | Next Test: | | | | |
| Quarter | | | | Year | | | | |
| 1 | 2 | 3 | 4 | 2019 | 2020 | 2021 | 2022 | 2023 |

Equipment:

Connection adaptors for all common threads.
Connection adaptors for DIN- and IBEDA-Couplings

Options:

Test Certificates
Test labels
Connection adaptors for special types (i.e.: asymmetric Inlet - and Outlet stud)

Tests:

Through flow tests, according to prescribed volumes.
Function pressure testing of sensitive gas cut-off valve (DS1000 & DS2000).
Test for gas return.
Preparations for annual and/or specific test requirements, can be simply made on site.

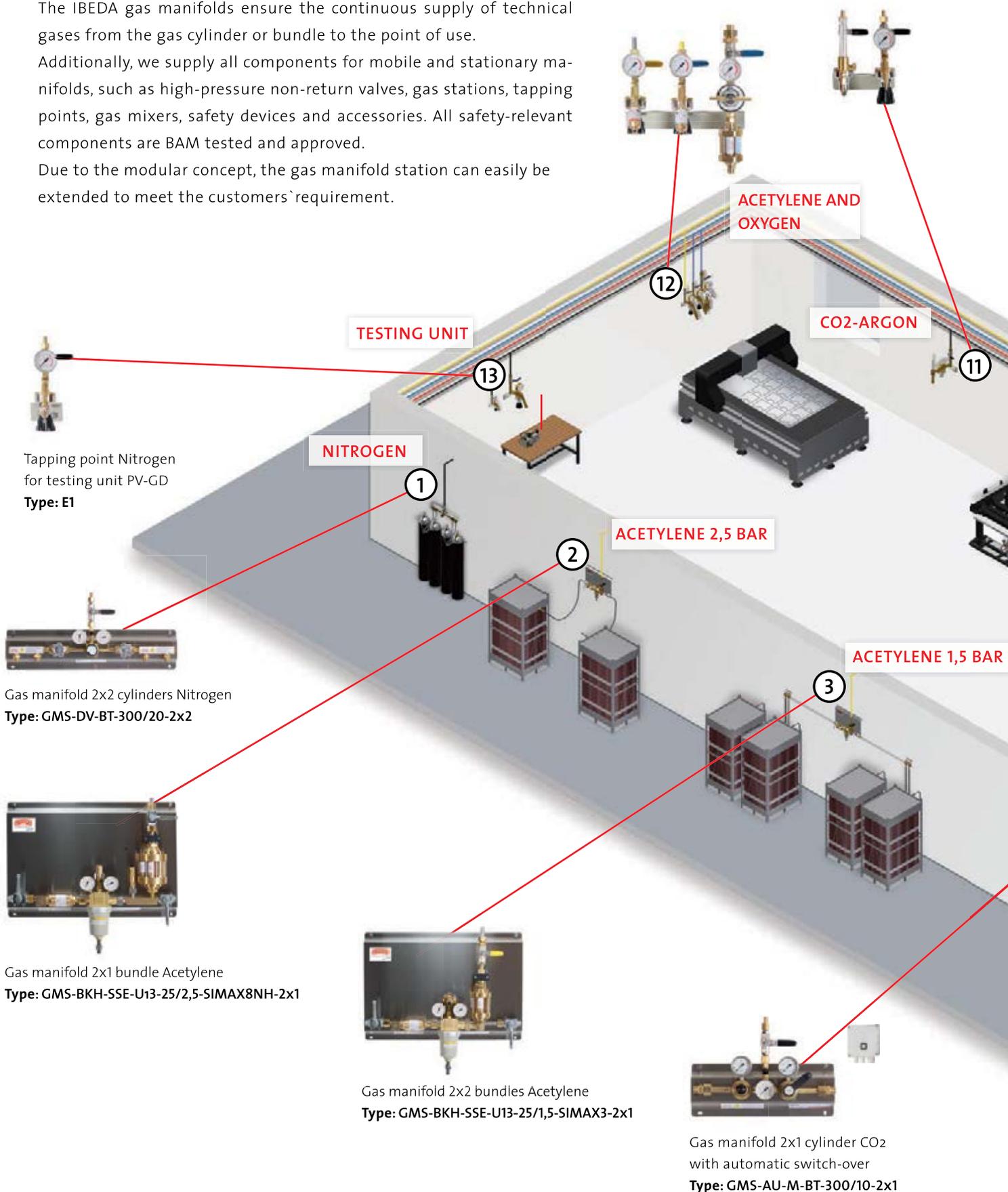
**WE ALSO OFFER AS OFFICIAL
OEM REPRESENTATIVES THE
TESTING AND CERTIFICATION
OF FLASHBACK ARRESTORS
ON SITE**

CENTRAL GAS SUPPLY AND MANIFOLD SYSTEMS *FOR ALL POINTS OF USE*

The IBEDA gas manifolds ensure the continuous supply of technical gases from the gas cylinder or bundle to the point of use. Additionally, we supply all components for mobile and stationary manifolds, such as high-pressure non-return valves, gas stations, tapping points, gas mixers, safety devices and accessories. All safety-relevant components are BAM tested and approved. Due to the modular concept, the gas manifold station can easily be extended to meet the customers` requirement.

Tapping points for cutting machines
Type: E1 and E10

Tapping points for welding machines
Type: E1



Tapping point for heating burners
Type: E10



Tapping point for flame spraying cabinets
Type: E1-AL



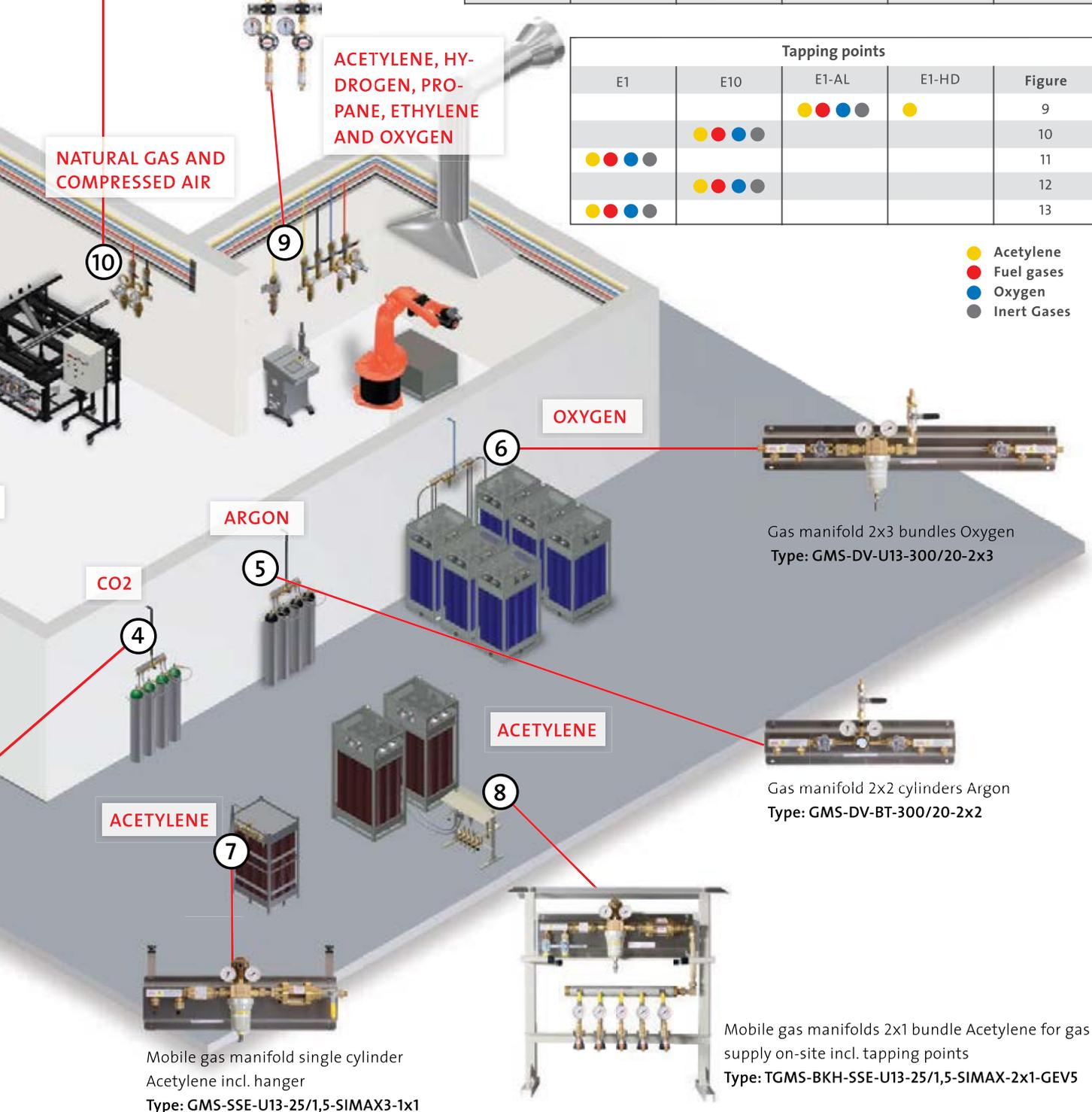
ACETYLENE, HYDROGEN, PROPANE, ETHYLENE AND OXYGEN

NATURAL GAS AND COMPRESSED AIR

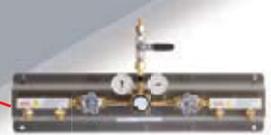
| GAS MANIFOLDS | | | | | Figure |
|---------------|-------------------------------------|--------------------------------------|-------------------------------------|---------|--------|
| stationary | | | | mobile | |
| manual | mechanically controlled auto-change | pneumatically controlled auto-change | electrically controlled auto-change | | |
| ● ● ● ● | ● ● ● ● | ● ● ● | ● ● ● ● | | 1 |
| ● | | | | | 2 |
| ● | ● | | ● | | 3 |
| ● ● ● ● | ● ● ● ● | ● ● ● | ● ● ● ● | | 4 |
| ● ● ● ● | ● ● ● ● | ● ● ● | ● ● ● ● | | 5 |
| ● ● ● ● | ● ● ● ● | ● ● ● | ● ● ● ● | | 6 |
| | | | | ● | 7 |
| | | | | ● ● ● ● | 8 |

| Tapping points | | | | | Figure |
|----------------|---------|---------|-------|--|--------|
| E1 | E10 | E1-AL | E1-HD | | |
| | | ● ● ● ● | ● | | 9 |
| | ● ● ● ● | | | | 10 |
| ● ● ● ● | | | | | 11 |
| | ● ● ● ● | | | | 12 |
| ● ● ● ● | | | | | 13 |

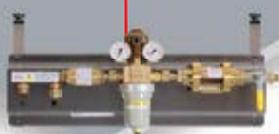
- Acetylene
- Fuel gases
- Oxygen
- Inert Gases



Gas manifold 2x3 bundles Oxygen
Type: GMS-DV-U13-300/20-2x3



Gas manifold 2x2 cylinders Argon
Type: GMS-DV-BT-300/20-2x2



Mobile gas manifold single cylinder Acetylene incl. hanger
Type: GMS-SSE-U13-25/1,5-SIMAX3-1x1



Mobile gas manifolds 2x1 bundle Acetylene for gas supply on-site incl. tapping points
Type: TGMS-BKH-SSE-U13-25/1,5-SIMAX-2x1-GEV5