# Gas Equipment

PRODUCT CATALOGUE 2017

**A full line of gas equipment solutions for every application, industry, and environment.**

XA00136920A

# Process Description

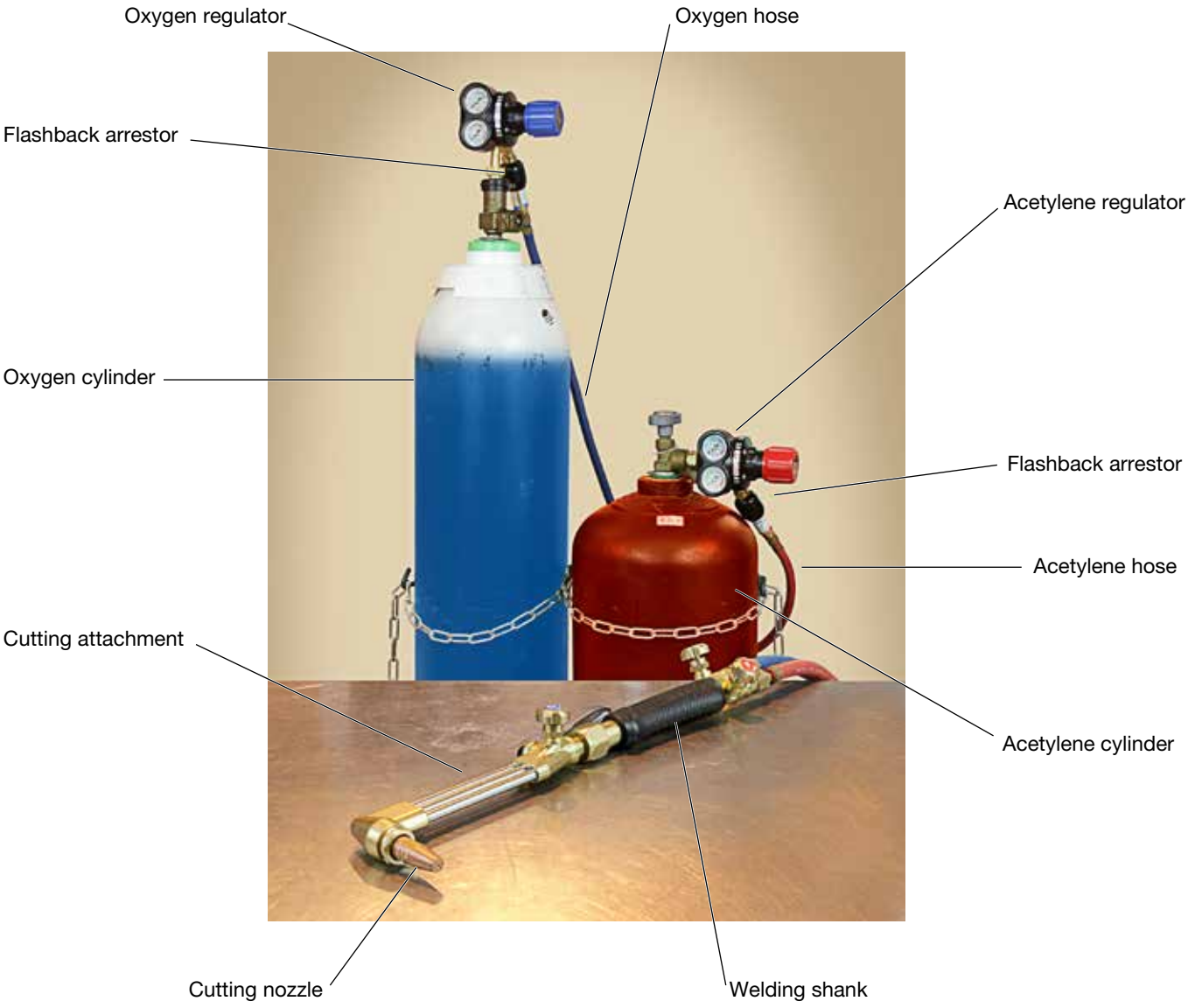
In oxy-fuel gas welding, heating, and cutting, an intense flame is produced by burning a controlled mixture of oxygen and a fuel gas. The gases are drawn from separate sources through pressure regulators and introduced into a torch for mixing. They exit the welding head or cutting tip, where they are ignited. Flame intensity depends on the flow rates of the gases, the gas mixture ratio, the properties of the fuel gas selected, and the type of welding head or cutting tip. Flow rates and mixture ratios are controlled by the regulator pressure settings and by the torch valves.

Welds are formed from the weld pool created through contact of flame, workpiece, and welding rod, if used. Use of flux removes oxide and scale from the welding area and helps assure a sound weld.

In cutting operations, a concentrated flame is used to preheat and maintain the workpiece at its ignition temperature while a high-velocity stream of oxygen is directed at the preheated plate. The oxygen stream rapidly oxidizes the metal in a narrow path and blows away the slag to form the kerf.

Basic equipment necessary for oxyfuel gas welding and cutting includes a torch with welding heads, cutting attachment, and cutting tips; oxygen and fuel gas hoses; oxygen regulator; and acetylene or other fuel gas regulator. Always comply with the instructions listed in the operator's manual provided with each piece of equipment.

**A typical oxy-fuel set up / configuration**



# Gas Equipment
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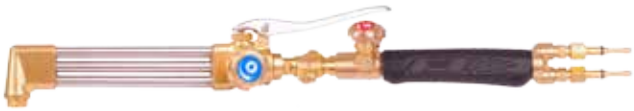

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# WH463 Torch System - Type 21

**EDGE™ 4 Oxygen**

| Part Number |
|---|
| 0700 017 631 |

**Flashback Arrestor**

| Part Number |
|---|
| 0700 016 550 |

**EDGE™ 4 Acetylene**

| Part Number |
|---|
| 0700 017 630 |

**Flashback Arrestor**

| Part Number |
|---|
| 0700 016 551 |

**Cutting Nozzles PNM-E [Propane]**

| Thickness [mm] | Part Number |
|---|---|
| 3-6 | 0700 016 628 |
| 5-12 | 0700 016 629 |
| 10-75 | 0700 016 630 |
| 70-100 | 0700 016 631 |
| 90-150 | 0700 016 632 |
| 190-300 | 0700 016 633 |

**Cutting Nozzles ANM-E [Acetylene]**

| Thickness [mm] | Part Number |
|---|---|
| 3-6 | 0700 016 616 |
| 5-12 | 0700 016 617 |
| 10-75 | 0700 016 618 |
| 70-100 | 0700 016 619 |
| 90-150 | 0700 016 620 |
| 190-300 | 0700 016 621 |

**Cutting Guides**

| Description | Part Number |
|---|---|
| Circle Cutting Guide Ø 40 mm - 700 mm | 0383-0006 |
| Cutting Guide Type 21 | 0383-0009 |
| Cutting Guide small 0°-45° | 0700 017 705 |

## Twinhose

| Diameter | Part Number |
|---|---|
| Ø 6,3 mm | 0700 018 641 |
| Ø 8,0 mm | 0700 018 642 |

## Welding Handle WH463 - Type 21

| Description | Part Number |
|---|---|
| WH463-FV | 0700 017 700 |
| WH463 | 0700 017 701 |

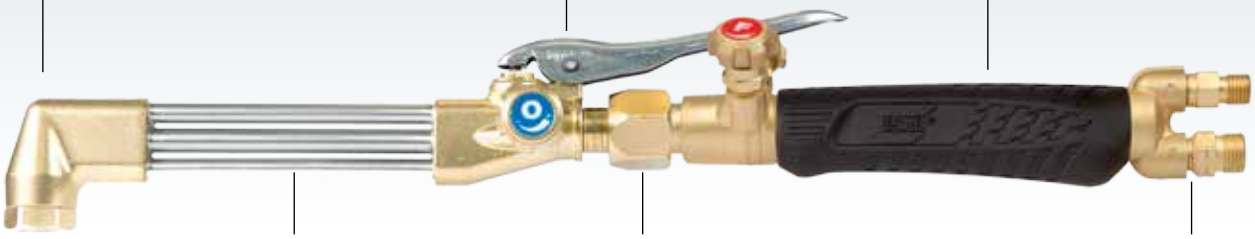
## Cutting Attachmenter Type 21

| Description | Part Number |
|---|---|
| CA464-NM-3 180° | 0700 017 706 |
| CA464-NM-2 90° | 0700 017 709 |
| CA464-NM 75° | 0700 017 708 |

## Heating Attachments

| Gasflow Oxygen [l/h] | Part Number |
|---|---|
| 1800 (Single) | 0700 017 736 |
| 2500 (Single) | 0700 017 737 |
| 2500 (Multi) | 0700 017 738 |
| 5000 (Multi) | 0700 017 739 |

# WH463 Torch System - Type 21



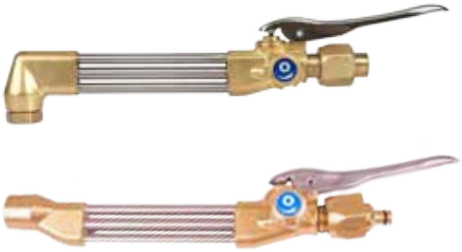

- Conforms to EN ISO 5172
- Compatible with other Type 21 torches on the market



## Type 21 - Welding Handle

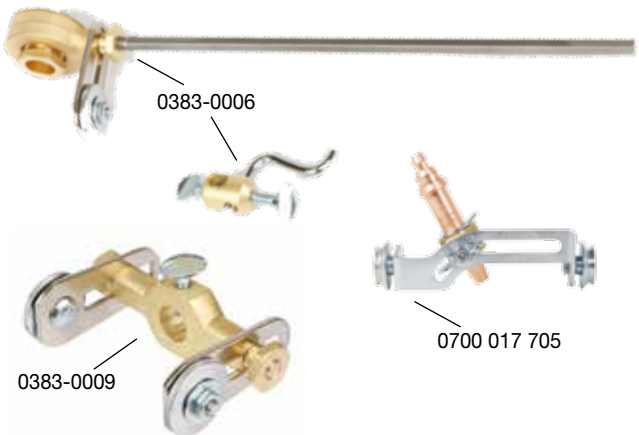
| Description | Part Number |
|---|---|
| WH463-FV | 0700 017 700 |
| WH463 | 0700 017 701 |
| WH463 Finland | 0700 017 702 |
| | |
| HCV 3/8” 6.3 mm LH Acetylene 1 st | 0700 016 782 |
| HCV 3/8” 6.3 mm RH Oxygen 1 st | 0700 016 783 |
| Coupling Nut, WH463 Type 21 | 0309-0151 |

## Type 21 - Cutting Attachment



| Description | Part Number |
|---|---|
| CA464-NM-3 180° | 0700 017 706 |
| CA464-NM-2 90° | 0700 017 709 |
| CA464-NM 75° | 0700 017 708 |
| | |
| O-ring 15,34 x 2,62 mm | 1407-0367 |
| O-ring 7,65 x 1,78 mm | 1407-0366 |
| Nozzle Nut | 0309-0118 |

## Cutting Guides




| Description | Part Number |
|---|---|
| Circle Cutting Guide Ø 40 mm - 700 mm | 0383-0006 |
| Cutting Guide Type 21 | 0383-0009 |
| Cutting Guide small 0°-45° | 0700 017 705 |

# WH463 Torch System - Type 21

## Type 21 Complete Outfit

| Description | Part Number |
|---|---|
| WH 463 kit | 0700 017 703 |

**Contents**

- WH463-FV Welding Handle with BV12 ø 6,3 mm checkvalves
- Cutting Attachment 90°
- Cutting Nozzle 3-6mm
- Cutting Nozzle 5-12mm
- Cutting Nozzle 10-75mm
- Cutting Guide Type 21 small 0°-45°
- Wrench
- Nozzle cleaner set



## Straight Cutting Torch ST443 for use with Type 21 Nozzles

### ST443 90º Straight cutting Torch

- Forged brass body
- Stainless steel tubes and lever
- Stainless steel valves for increased service life
- High strength zinc-aluminium shank grip
- Fully conforms to ISO standards – EN ISO 5172

Low profile head and in line tubes provide outstanding visibility to the work area

Specially designed alloy material 3x the tensile strength of brass. Stainless steel cutting oxygen lever is positioned and contoured for maximum comfort

Universal mixer works with all gas types

Ergonomic non-slip handle designed to fit naturally in the hand while reducing stress, allowing more accurate and longer cuts

Stainless steel valves for extended operational life and increased safety

| Description | Part Number |
|---|---|
| ST443 Straight Cutting Torch 53cm / 90º | 0700 017 250 |
| ST443 L Straight Cutting Torch 53cm / 90º with locking lever | 0700 017 396 |
| ST443 Straight Cutting Torch 69cm / 75º | 0700 017 251 |
| ST443 Straight Cutting Torch 91cm / 75º | 0700 017 252 |
| Nozzle Nut | 0700 017 280 |

# WH485 Torch System - Type 11

**EDGE™ 4 Oxygen**

| Part Number |
|---|
| 0700 017 631 |

**Flashback Arrestor**

| Part Number |
|---|
| 0700 016 550 |

**EDGE™ 4 Acetylene**

| Part Number |
|---|
| 0700 017 630 |

**Flashback Arrestor**

| Part Number |
|---|
| 0700 016 551 |

**Cutting Guide**

| Description | Part Number |
|---|---|
| Circle Cutting Guide Ø 60-600 mm Type 11 | 0700 017 740 |
| Cutting Guide Type 11 small wheels 0°-45° | 0700 017 741 |
| Circle Cutting Guide Ø 20-60mm Type 11 | 0700 017 742 |

**Cutting Nozzles**

| Thickness [mm] | Part Number |
|---|---|
| 1,5-3 | 0700 017 715 |
| 3-8 | 0700 017 716 |
| 8-20 | 0700 017 717 |
| 20-50 | 0700 017 718 |
| 50-100 | 0700 017 719 |

**Heating Attachments**

| Gasflow Oxygen [l/h] | Part Number |
|---|---|
| 500 | 0700 017 733 |
| 800 | 0700 017 734 |
| 1000 | 0700 017 735 |

## Twinhose

| Diameter | Part Number |
|---|---|
| Ø 5,0 mm | 0700 018 640 |
| Ø 6,3 mm | 0700 018 641 |

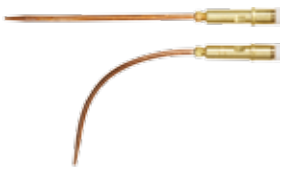
## Welding Handle WH485 -

| Description | Part Number |
|---|---|
| WH485-FV INCL BV12 5,0mm L+R | 0700 017 710 |

## Cutting Attachmenter Type 11

| Description | Part Number |
|---|---|
| CA487 90° | 0700 017 712 |

## Flexible Welding Nozzles

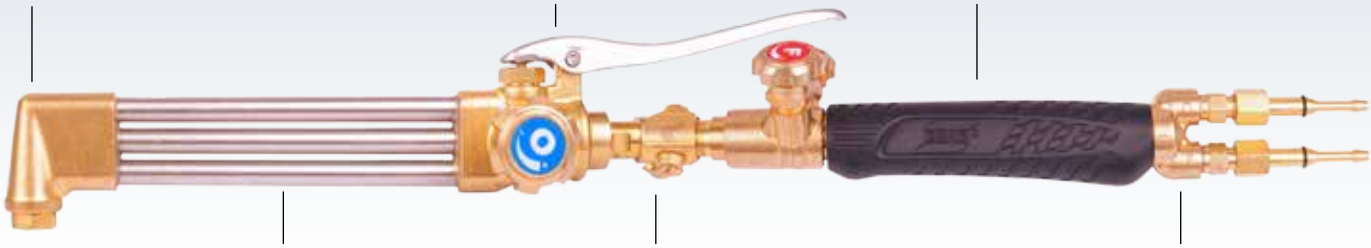


| Gasflow Oxygen [l/h] | Thickness [mm] | Part Number |
|---|---|---|
| 80 | 0,5-4 | 0700 017 728 |
| 160 | 1-2 | 0700 017 729 |
| 315 | 2-4 | 0700 017 730 |
| 500 | 4-6 | 0700 017 731 |
| 800 | 6-9 | 0700 017 732 |

## Welding Nozzles

| Gasflow Oxygen [l/h] | Thickness [mm] | Part Number |
|---|---|---|
| 160 | 1-2 | 0700 017 720 |
| 230 | 1,5-3 | 0700 017 721 |
| 315 | 2-4 | 0700 017 722 |
| 400 | 3,5-5 | 0700 017 723 |
| 500 | 4-6 | 0700 017 724 |
| 800 | 6-9 | 0700 017 725 |
| 1000 | 8-12 | 0700 017 726 |
| 1200 | 9-14 | 0700 017 727 |

# WH485 Torch System - Type 11






## Type 11 - Welding Handle

- Conforms to EN ISO 5172
- Compatible with other Type 11 / D75 torches on the market

Seal for handle / cutting attachment
**0700 017 743**

Quick connector WH485
**0700 017 744**

| Description | Part Number |
|---|---|
| WH485-FV INCL BV12 5,0mm | 0700 017 710 |
| Quick connector WH485 | 0700 017 744 |
| | |
| HCV 1/4” 5,0 mm LH Acetylene 1 st | 0700 017 850 |
| HCV 1/4” 5,0 mm RH Oxygen 1 st | 0700 017 851 |
| HCV 1/4” 6,3 mm LH Acetylene 1 st | 0700 016 780 |
| HCV 1/4” 6.3 mm RH Oxygene 1 st | 0700 016 781 |

## Type 11 - Cutting Attachmenter

Seal for handle / cutting attachment
**0700 017 743**

| Description | Part Number |
|---|---|
| CA487 90° | 0700 017 712 |
| Seal for handle / cutting attachment | 0700 017 743 |
| Type 11 nozzle nut | 0309-0157 |

## Type 11 Complete Outfit

| Description | Part Number |
|---|---|
| WH 485 kit | 0700 017 713 |

**Innehåll**

- WH485-FV Welding Handle with BV12 ø 5,0 mm checkvalves
- Cutting Attachment 90°
- Cutting Nozzle 3-8 mm
- Cutting Nozzle 8-20 mm
- Cutting Nozzle 20-50 mm
- Welding Nozzle 315 l/h
- Welding Nozzle 500 l/h
- Welding Nozzle 800 l/h
- Nozzle cleaner set

# Cutting Nozzles

## ANM-E. Type 21 Acetylene Cutting Nozzles

- Solid, one piece construction manufactured from high grade tellurium copper
- Always for use with acetylene
- Unique mandrel swaging process produces smooth and accurate gas passages giving the best conditions for optimum flame stability and efficiency.
- 'Diamond' turned seats guarantees the necessary metal-to-metal connection required for maximum backfire resistance

**ANM-E cutting nozzles are compatible with Type 21 torches**

| Description | Metal Thickness mm | Part Number |
|---|---|---|
| ANM-E | 3-6 | 0700 016 616 |
| ANM-E | 5-12 | 0700 016 617 |
| ANM-E | 10-75 | 0700 016 618 |
| ANM-E | 70-100 | 0700 016 619 |
| ANM-E | 90-150 | 0700 016 620 |
| ANM-E | 190-300 | 0700 016 621 |

## PNM-E. Type 21 Propane Cutting Nozzles

- PNM's differ from ANM nozzles as different gas mixing criteria apply
- Two piece design consisting of a brass inner nozzle and a hollow copper outer sheath
- Turbulence must be created between the inner and outer parts of the nozzle to obtain adequate mixing of the propane and oxygen
- The volume of mixed Oxy-Propane needs to be more than double that of Oxy-Acetylene for the same useable heat
- This extra volume is achieved by very large channels that are present on the brass inner nozzle which conduct the greater volumes of gas

**PNM-E cutting nozzles are compatible with Type 21 torches**

| Description | Metal Thickness mm | Part Number |
|---|---|---|
| PNM-E | 3-6 | 0700 016 628 |
| PNM-E | 5-12 | 0700 016 629 |
| PNM-E | 10-75 | 0700 016 630 |
| PNM-E | 70-100 | 0700 016 631 |
| PNM-E | 90-150 | 0700 016 632 |
| PNM-E | 190-300 | 0700 016 633 |

## A-GNM. Type 21 Acetylene Gouging Nozzles

- Solid, one piece construction
- Strong flame for easy starts
- Integrated support piece

**A-GNM gouging nozzles are compatible with Type 21 torches**

| Description | Thickness mm | Groove Width | Part Number |
|---|---|---|---|
| A-GNM 13 | 3 - 8 | 6 - 8 | 0700 016 640 |
| A-GNM 19 | 6-11 | 8 - 11 | 0700 126 810 |

## D75 / Type 11 Acetylene Cutting Nozzles

- Solid, one piece construction
- Strong, stable flame

**D75 cutting nozzles are compatible with Type 11 torches**

| Description | Metal Thickness mm | Part Number |
|---|---|---|
| D75 - 1A | 1,5 - 3 | 0700 017 715 |
| D75 - 2A | 3 - 8 | 0700 017 716 |
| D75 - 3A | 8 - 20 | 0700 017 717 |
| D75 - 4A | 20 - 50 | 0700 017 718 |
| D75 - 5A | 50 - 100 | 0700 017 719 |

# Safety Devices
## Flashback arrestors

**ESAB's range of flashback arrestors are all designed for optimum usage, giving high flow rates whilst still providing the highest levels of function and safety.**

**The range is extensive and offers users the option to have a safety device at the torch and regulator.**

**All ESAB flashback arrestors fully conform to the standard BS EN 730-1**

### Safety elements by flashback arrestor type

| Model | Non return valve (NA) | Flame arrestor (FA) | Thermal cut off valve (TV) | Pressure sensitive cut off valve (PV) | Dust filter |
|---|---|---|---|---|---|
| FR2000 | X | X | X | X | X |
| FR1000 | X | X | X | X | X |
| FRT | X | X | X | | X |
| FTH | X | X | | | X |
| FT | X | X | | | X |

### All fuel gas models are suitable for the following Gas service

| Gas | Working Pressure (bar) | Working Pressure (Mpa) |
|---|---|---|
| Acetylene (A) | 1,5 | 0,15 |
| Propane (P) | 5 | 0,5 |
| Hydrogen (H) | 3,5 | 0,35 |
| Ethylene (E) | 5 | 0,5 |
| Methane (M) | 5 | 0,5 |
| Town Gas (C) | 5 | 0,5 |

FBA's suitable for fuel gases are suitable for a range of fuel gases however it is industry best practice that once a gas be used with the equipment, it remains in use on that gas type only.

**Regulator Mounted**
FR2000, FR1000, FRT

**Torch Mounted**
FT, FTH,

---

- **FR1000 – Resettable flashback arrestors**

FR1000 is the most popular choice of flashback arrestor for manual cutting and welding applications. Features a built-in Reset function.

**Choose FR1000 for:**

- Welding up to 30 mm
- Cutting up to 200 mm
- Heating up to 100 mm

**FR1000 offers the following safety features:**

- Dust filter
- Angled outlet connection – safe hose fall angle
- Gas non-return valve
- Flame arrestor
- Thermal cut-off valve
- Pressure sensitive gas cut-off valve

| Model | Description | Gas Type | Connection Thread | Part Number |
|---|---|---|---|---|
| FR1000 | Regulator mounted, resettable flashback arrestors | Oxygen | 3/8" RH | 0700 016 550 |
| | | Fuel Gas | 3/8" LH | 0700 016 551 |
| | | Oxygen | 1/4" RH | 0700 018 151 |

# Safety Devices

## Flashback arrestors and quick connectors

### Regulator and torch mounted flashback arrestors

- **FR2000 – High-flow, resettable flashback arrestors**

| Model | Description | Gas Type | Connection Thread | Part Number |
|---|---|---|---|---|
| FR2000 | Regulator mounted, resettable, high-flow flashback arrestors | Oxygen | 3/8" RH | 0700 016 552 |
| | | Fuel Gas | 3/8" LH | 0700 016 553 |
| | | Oxygen | 1/4" RH | 0700 018 150 |

- **FRT – Non resettable**

| Model | Description | Gas Type | Connection Thread | Part Number |
|---|---|---|---|---|
| FRT | Regulator mounted, non-resettable flashback arrestors | Oxygen | 3/8" RH | 0700 016 554 |
| | | Fuel Gas | 3/8" LH | 0700 016 555 |
| | | Oxygen | 1/4" RH | 0700 017 780 |

- **FTH / FT – Torch mounted, Non resettable**

| Model | Description | Gas Type | Connection Thread | Part Number |
|---|---|---|---|---|
| FTH | Torch mounted, non-resettable flashback arrestor, for unfitted hose | Oxygen | 8 mm Nipple - 3/8" RH | 0700 016 558 |
| | | Fuel Gas | 8 mm Nipple - 3/8" LH | 0700 016 559 |
| | | Fuel Gas | 9 mm Nipple - 3/8" LH | 0700 018 154 |
| | | Oxygen | 6,3 mm Nipple - 3/8" RH | 0700 017 781 |
| | | Fuel Gas | 6,3 mm Nipple - 3/8" LH | 0700 017 782 |
| | | Oxygen | 6,3mm Nipple - 1/4" RH | 0700 017 783 |
| FT | Torch mounted, non-resettable flashback arrestor | Oxygen | 3/8" RH | 0700 016 556 |
| | | Fuel Gas | 3/8" LH | 0700 016 557 |
| | | Oxygen | 1/4" RH | 0700 016 740 |
| | | Fuel Gas | 1/4" LH | 0700 016 739 |

## Quick Connectors

- **CR Quick Connector -regulator mounted quick connector**

| Model | Description | Gas Type | Connection Thread | Part Number |
|---|---|---|---|---|
| CR | Regulator mounted quick connector | Oxygen | G3/8" RH | 0700 018 160 |
| | | Fuel Gas | G3/8" LH | 0700 018 161 |
| | | Oxygen | G1/4" RH | 0700 018 162 |
| | | Inert gas | G1/4" RH | 0700 018 163 |

- **CH Quick Connector - in hose or torch mounted (with hose tail) quick connector**

| Model | Description | Gas Type | Connection Thread | Part Number |
|---|---|---|---|---|
| CH | Quick connecter - in-hose or torch mounted with hose tail | Oxygen | 5,0mm | 0700 018 360 |
| | | Fuel Gas | 5,0mm | 0700 018 361 |
| | | Oxygen | 6,3mm | 0700 018 164 |
| | | Fuel Gas | 6,3mm | 0700 018 165 |
| | | Inert gas | 6,3mm | 0700 018 166 |
| | | Oxygen | 8mm | 0700 018 167 |
| | | Fuel Gas | 8mm | 0700 018 168 |
| | | Inert gas | 8mm | 0700 018 169 |
| | | Fuel Gas | 9mm | 0700 018 170 |

- **D2 Coupling pin with hose tail**

| Model | Description | Gas Type | Connection Thread | Part Number |
|---|---|---|---|---|
| D2 | Coupling pin with hose tail | Oxygen | 5,0mm | 0700 018 358 |
| | | Fuel Gas | 5,0mm | 0700 018 359 |
| | | Oxygen | 6,3mm | 0700 018 171 |
| | | Fuel Gas | 6,3mm | 0700 018 172 |
| | | Inert gas | 6,3mm | 0700 018 173 |
| | | Oxygen | 8mm | 0700 016 768 |
| | | Fuel Gas | 8mm | 0700 016 769 |
| | | Inert gas | 8mm | 0700 018 174 |
| | | Fuel Gas | 9mm | 0700 018 175 |

- **D1 Coupling pin with swivel nut**

| Model | Description | Gas Type | Connection Thread | Part Number |
|---|---|---|---|---|
| D1 | Coupling pin with swivel nut | Oxygen | G3/8" RH | 0700 016 777 |
| | | Fuel Gas | G3/8" LH | 0700 016 778 |
| | | Inert gas | G3/8" RH | 0700 018 176 |
| | | Oxygen | G1/4" RH | 0700 018 177 |
| | | Inert gas | G1/4" RH | 0700 018 178 |

# Hose Assemblies and Fittings
## Twinhose

**Twinhose for oxygen/acetylene (blue/red). Hoses are marked with gas type, dimension and pressure data. They are supplied in 40 m lengths.**

**Check the hoses regularly. To avoid leakage, replace the hose when cracks start to appear.**

- **Conforms to EN 559**

### Twinhose

| Description | Part Number |
|---|---|
| 5,0 x 5,0 mm twinhose, 40 m | 0700 018 640 |
| 6,3 x 6,3 mm twinhose, 40 m | 0700 018 641 |
| 8,0 x 8,0 mm twinhose, 40 m | 0700 018 642 |

### Hose fittings and supplies

| Description | Diameter | Connection | Pack Size | Part Number |
|---|---|---|---|---|
| Hose Check Valves (HCV's) | 5,0 mm | 1/4" LH | 1 | 0700 017 850 |
| | | 1/4" RH | 1 | 0700 017 851 |
| | 6,3 mm | 1/4" LH | 1 | 0700 016 780 |
| | | 1/4" RH | 1 | 0700 016 781 |
| | | 3/8" LH | 1 | 0700 016 782 |
| | | 3/8" RH | 1 | 0700 016 783 |
| | 8 mm | 3/8" LH | 1 | 0700 016 784 |
| | | 3/8" RH | 1 | 0700 016 785 |
| | 10 mm | 3/8" LH | 1 | 0700 016 786 |
| | | 3/8" RH | 1 | 0700 016 787 |

| Description | Diameter | Connection | Pack Size | Part Number |
|---|---|---|---|---|
| Nut Couplings | N/A | 1/4" BSP LH | 10 | 0700 016 788 |
| | | 1/4" BSP RH | 10 | 0700 016 789 |
| | | 3/8" BSP RH | 10 | 0700 016 790 |
| | | 3/8" BSP LH | 10 | 0700 016 791 |

| Description | Diameter | Connection | Pack Size | Part Number |
|---|---|---|---|---|
| Nipples / Tails | 5,0 mm | 1/4" | 10 | 0700 017 854 |
| | 6,3 mm | 1/4" | 10 | 0700 016 792 |
| | | 3/8" | 10 | 0700 016 793 |
| | 8 mm | 3/8" | 10 | 0700 016 794 |
| | 10 mm | 3/8" | 10 | 0700 016 795 |

| Description | Diameter | Connection | Pack Size | Part Number |
|---|---|---|---|---|
| O-clips | 6,3 mm | N/A | 100 | 0700 888 910 |
| | 8 mm | N/A | 100 | 0700 017 060 |
| | 10 mm | N/A | 100 | 0700 888 911 |

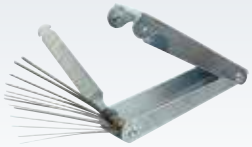
# Torch Accessories

## ESAB gas equipment accessories

### Nozzle cleaner sets

- **For cleaning orifices of welding and cutting nozzles.**

| Description | Pack Size | Part Number |
|---|---|---|
| Nozzle cleaner set | 1 | 0700 153 391 |



### Spark lighters

- **Pistol, cup and triplehead models.**

| Description | Pack Size | Part Number |
|---|---|---|
| SL2 'Pistol' type | 5 | 0700 154 807 |
| SL2 Flints | 100 | 0700 119 695 |
| SL3 'Cup' type | 1 | 0701 380 220 |
| SL3 Flints | 5 | 0701 380 221 |

### CO2 Heater

- **Specifically designed for use with Carbon Dioxide, this unit allows flows of up to 19 l/min without risk of freezing or noticeable changes in the flow or pressure.**

| Description | Voltage / Watts | Part Number |
|---|---|---|
| CO2 Heater | 230V / 200W | 0701 020 010 |

### Economiser

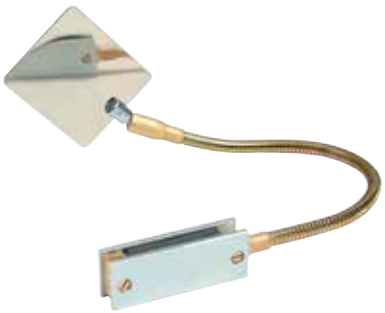
- **Gas Economy device**

| Description | Pack Size | Part Number |
|---|---|---|
| Economiser | 1 | 0701 282 575 |

### Inspection mirror with magnet

- **Stainless steel inspection mirror for inspecting welds.**

| Description | Part Number |
|---|---|
| Inspection mirror, 500 mm with magnetic base | 0000 595 319 |



# Accessories
## Eye Protection



### Warrior with DIN 5 Lens

- **The shade 5 spectacles provide protection not only against IR/UV light but also against visible light during gas welding/ cutting.**

| Description | Pack Size | Part Number |
|---|---|---|
| Warrior safety spectacles, DIN 5 lens | 10 | 0700 012 033 |

### ESAB Ski goggles with DIN 5 lens

- **The special injected frame offers supreme user comfort as well as durability. Expanded Visual field. Cross Vent technology keeps air flowing in and moisture out. Moulded 2mm poly carbonate lens provides great impact protection. These goggles meet ANSI Z87.1+ impact standard. ESAB Revolution UVIR Shade 5 is CE certified in addition to EN 169:2002 Optical Radiation (Welding).**

| Description | Pack Size | Part Number |
|---|---|---|
| ESAB Ski goggle shade 5 | 1 | 0700 012 033 |

### ESAB Flip Front Goggle Round Shade 5

- **Protective goggle shade 5 for gas welding, brazing and gas cutting. The goggles are ventilated and have a flip-front mechanism. CE approved according EN 166/EN 175.**

| Description | Pack Size | Part Number |
|---|---|---|
| Flip Front Goggle, Shade 5 | 1 | 0700 012 022 |
| Filter Lens 50mm DIN 4 | 25 | 0000 665 604 |
| Filter Lens 50mm DIN 5 | 25 | 0000 665 605 |
| Filter Lens 50mm DIN 6 | 25 | 0000 665 606 |
| Glass cover lens 50mm glas | 50 | 0000 665 600 |
| Plastic cover lens 50mm plast | 50 | 0000 665 618 |

### Curved TIG Gauntlet

- **These superior new welding gloves from ESAB offer a whole new approach to fit, form and function. Ergonomically designed to fit the natural curve of the hand, offering increased quality & comfort to the wearer. The TIG glove is made from thin high quality leather, with improved fit for higher dexterity. The glove is highly durable, with welted seams & kevlar stitching. The glove is also extremely light weight, which increases the comfort to the wearer.**

| Description | Pack Size | Part Number |
|---|---|---|
| Curved TIG Gauntlet, M | 1 | 0700 005 036 |
| Curved TIG Gauntlet, L | 1 | 0700 005 041 |
| Curved TIG Gauntlet, XL | 1 | 0700 005 042 |
| Curved TIG Gauntlet, XXL | 1 | 0700 005 037 |

# Accessories
## Cylinder Trolleys

### Trolley FK 240

- **Gas bottle trolley FK 240 is approved for two 40 or 50 litre gas bottles. Supplied with pneumatic tyres and a lockable toolbox. Approved for lifting. CE approved.**

| Description | Part Number |
|---|---|
| Trolley FK 240 for 2 x 50 l | 0349 968 528 |

### Trolley FK 220

- **Gas bottle trolley FK220 is approved for two 20 litre gas bottles. Supplied either with solid rubber tyres or large pneumatic tyres. Approved for lifting. CE approved.**

| Description | Part Number |
|---|---|
| Trolley FK 220 with solid rubber tyres for 2 x 20 l | 0349 968 526 |
| Trolley FK 220 with pneumatic rubber tyres for 2 x 20 l | 0349 968 527 |

FK 220
Solid tyres

FK 220
Pneumatic tyres

### Universal Single Trolley

- **Universal trolley approved for one 40 or 50 litre gas bottle. Supplied with solid rubber tyres. Unassembled. Approved for lifting. CE approved.**

| Description | Part Number |
|---|---|
| Universal Single Trolley for 1 x 50 l | 0700 014 044 |

# Copper-coated wire for gas welding
## OK Gasrod 98.70

### OK Gasrod 98.70

- **OK Gasrod 98.70 is a 1.0Mn-alloyed, copper-coated welding rod for gas welding of unalloyed steels in applications including tanks and piping.**

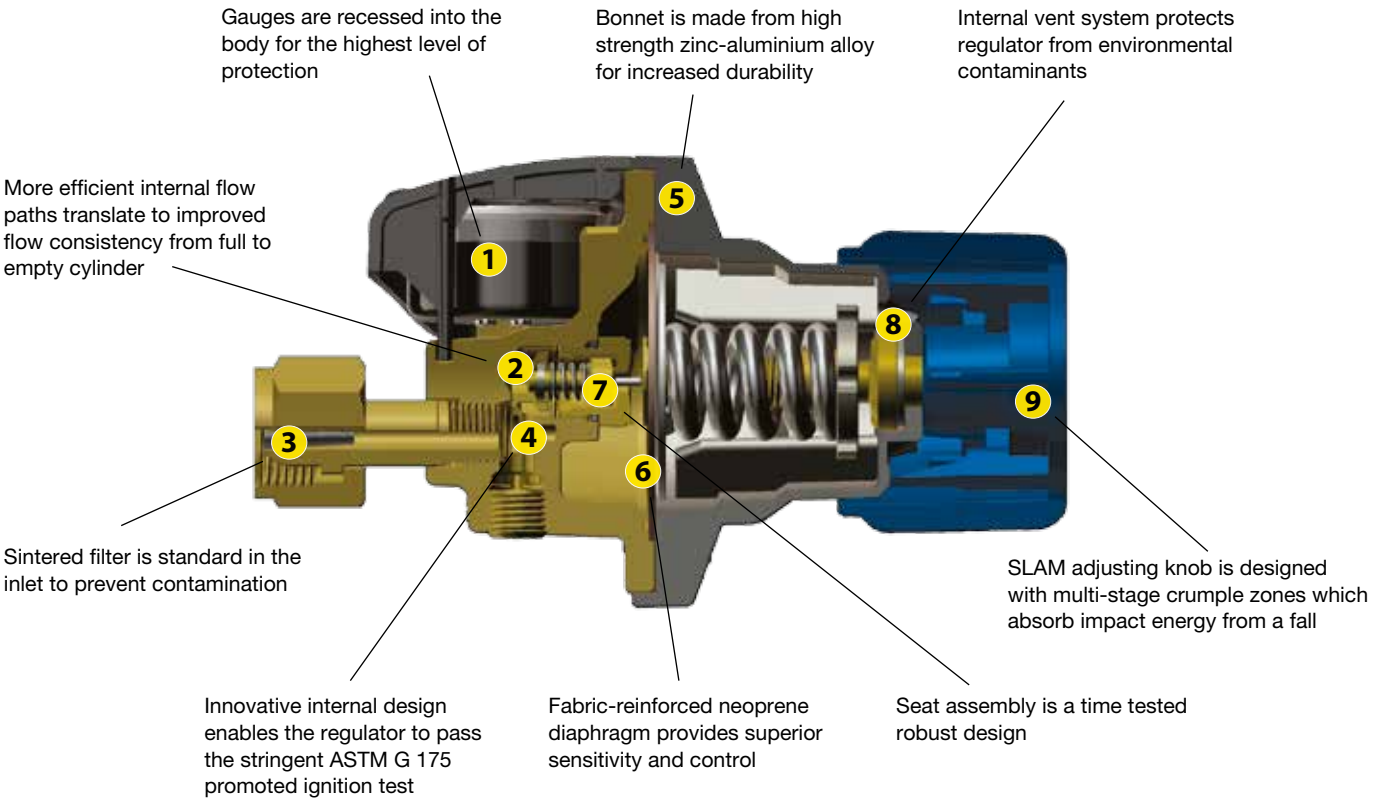
| Description | Diameter [mm] | Length [mm] | Part Number | Pack [kg] |
|---|---|---|---|---|
| OK Gasrod 98.70 1.6x1000 5kg | 1,6 | 1000 | 9870 16R 150 | 5 |
| OK Gasrod 98.70 2.0x1000 5kg | 2,0 | 1000 | 9870 20R 150 | 5 |
| OK Gasrod 98.70 2.5x1000 5kg | 2,4 | 1000 | 9870 25R 150 | 5 |
| OK Gasrod 98.70 3.0x1000 5kg | 3,0 | 1000 | 9870 30R 150 | 5 |
| OK Gasrod 98.70 4.0x1000 5kg | 4,0 | 1000 | 9870 40R 150 | 5 |

| Classifications | | Wire composition | | | Typical mech. properties all weld metal | | |
|---|---|---|---|---|---|---|---|
| SFA/AWS A5.2 | R60 | C | Si | Mn | Yield Stress | Tensile Strength | Elongation |
| EN 12536 | OII | 0,1% | 0,2% | 1,0% | 300 MPa | 390 MPa | 20 % |

# Regulators
## EDGE™ Series Regulators

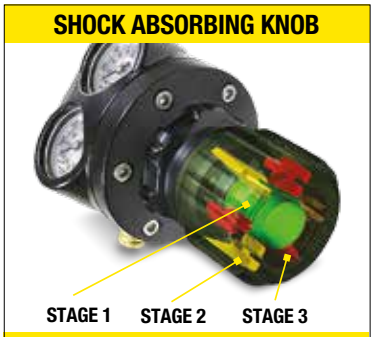
### Choose EDGE!

Innovative EDGE Series Regulators offer safety and advanced design The regulators offer the safest, most reliable and highest quality gas control technology, giving you more value for your purchase. The EDGE Series regulators have easy to read gauges with enhanced graphics, color-coded knobs for quick gas identification, and offer more natural and safer hand/body positioning for adjusting delivery pressure. Durable and compact, the advanced design makes them some of the most compact industrial regulators available on the market. Construction materials have been carefully chosen for optimum durability, including a forged brass body, stainless steel bolts, and a regulator housing cap constructed of a zinc-aluminum alloy which has nearly twice the yield strength of brass. Meets ISO 2503




## SLAM™ Technology

SINGLE IMPACT POINT



3-STAGE CRUMPLE ZONE

SCAN HERE

EDGE VIDEO

**EDGE regulators feature SLAM™ (Shock Limitation and Absorption Mechanism) technology built into the adjusting knob. The three-stage crumple zone provides additional strength and protection to the regulator internals and cylinder valve to improve safety in the workplace.**

# Regulators

## EDGE™ 4 Series Regulators

**Edge 4 Series single stage regulator range**

- **Forged brass body**
- **Zinc - aluminium bonnet**
- **High impact ABS gauge guard for increased durability**
- **40mm high contrast steel gauges**
- **External self reseating relief valve**
- **Sintered inlet filter - nickel plated bronze**
- **SLAM impact absorbing safety knob**
- **Achieves ASTM G - 175 promoted ignition test**
- **Meets ISO 2503**

### Supplied with:

2 gaskets, hose nipples, nut and instruction manual.

### Ordering Information - Pressure

| Part Number | Gas Type | Pressure | Gauge 1 | Gauge 2 | Max. Pressure | Inlet connection | Outlet Connection |
|---|---|---|---|---|---|---|---|
| 0700 017 625 | Hydrogen | 0-10 Bar | 0-315 Bar | 0-16 Bar | 200 Bar | W21,8 X 1/14" LH | G3/8" LH |
| 0700 017 630 | Acetylene | 0-1,5 Bar | 0-25 Bar | 0-2,5 Bar | 25 Bar | G 3/4" (utv) | G3/8" LH |
| 0700 017 631 | Oxygen | 0-10 Bar | 0-315 Bar | 0-16 Bar | 200 Bar | W21,8 X 1/14" | G3/8" |
| 0700 017 632 | Argon/CO2 | 0-10 Bar | 0-315 Bar | 0-16 Bar | 200 Bar | W24,32 X 1/14" | G3/8" |
| 0700 017 633 | Nitrogen | 0-16 Bar | 0-315 Bar | 0-2,5 Bar | 200 Bar | W24,32 X 1/14" | G3/8" |
| 0700 017 444 | Propane | 0-25 Bar | 0-25 Bar | 0-4 Bar | 25 Bar | W21,8 X 1/14" LH | G3/8" LH |

### Ordering Information - Flow

| Part Number | Gas Type | Flow Rate | Content Gauge | Flowmeter | Max. Pressure | Inlet connection | Outlet Connection |
|---|---|---|---|---|---|---|---|
| 0700 017 636 | Argon/CO2 | 0-40 l/min | 0-315 Bar | 0-50 l/min | 200 Bar | W24,32 X 1/14" | G3/8" |
| 0700 017 454 | Argon/CO2 | 0-40 l/min | 0-315 Bar | 0-50 l/min | 200 Bar | W21,8 X 1/14" | G1/4" RH |

### Accessories

| Model | Description | Pack Size | Part Number |
|---|---|---|---|
| Gasket | Nylon gasket for oxygen, argon and CO2 regulators. Ø18,5 x 11,8mm | 10 pieces | 1408-0162 |
| Gasket | Nylon gasket for acetylene regulators. Ø18,5 x 9,6mm | 10 pieces | 1408-0163 |

See pages 12-13 for the ESAB range of Flashback Arrestors.

# Regulators

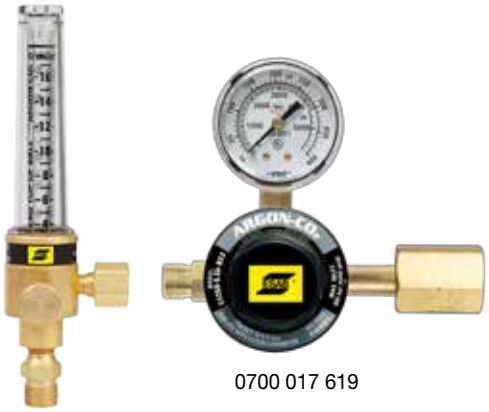
## G Series Regulators

**G Series medium capacity regulator range**

- **Gauge grey scale indicates supply and delivery pressure capacity of the regulator**
- **High strength zinc aluminium bonnet nearly twice the yield strength of forged brass provides exceptional durability**
- **50mm steel gauges**
- **Colour coded knobs for ease of use and clear identification of gas type**
- **Forged brass body**
- **Extended stem fits all common cylinder valves**
- **Meets ISO 2503**

### Supplied with:

2 gaskets, hose nipples, nut and instruction manual.



0701 300 021 /
0701 300 022

0700 017 619

### Ordering Information - Pressure

| Part Number | Gas Type | Pressure | Gauge 1 | Gauge 2 | Max. Pressure | Inlet connection | Outlet Connection |
|---|---|---|---|---|---|---|---|
| 0700 017 621 | Oxygen | 0-10 Bar | 0-315 Bar | 0-16 Bar | 200 Bar | W21,8 X 1/14" | G3/8 |
| 0700 017 628 | Oxygen | 0-4 Bar | 0-315 Bar | 0-16 Bar | 200 Bar | W21,8 X 1/14" | G3/8 |
| 0700 017 620 | Acetylene | 0-1,5 Bar | 0-25 Bar | 0-2,5 Bar | 25 Bar | G 3/4" (utv) | G3/8 LH |
| 0700 017 623 | Propane | 0-2,5 Bar | | 0-4 Bar | 25 Bar | POL 0,885" x 1/14" LH (utv) | G3/8 LH |
| 0700 017 463 | Oxygen | 0-10 Bar | 0-315 Bar | 0-16 Bar | 200 Bar | G 3/4 RH | G1/4 RH |
| 0700 017 465 | Propane | 0-2,5 Bar | | 0-4 Bar | 25 Bar | W21,8 x 1/14" LH | G3/8 LH |
| 0700 017 634 | Nitrogen | 30-200 Bar | 0-400 Bar | 0-315 Bar | 300 Bar | W24,32 X 1/14" | G3/8 |
| 0700 017 635 | Air | 30-200 Bar | 0-400 Bar | 0-315 Bar | 300 Bar | G5/8 | G3/8 |

### Ordering Information - Flow

| Part Number | Gas Type | Flow Rate | Content Gauge | Flowmeter | Max. Pressure | Inlet connection | Outlet Connection |
|---|---|---|---|---|---|---|---|
| 0700 017 629 | Argon/CO2 | 0-40 l/min | 0-315 Bar | 0-50 l/min | 200 Bar | W24,32 X 1/14" | G3/8 |
| 0700 017 626 | CO2 | 0-40 l/min | 0-315 Bar | 0-50 l/min | 200 Bar | W21,8 X 1/14" | G3/8 |
| 0700 017 467 | Argon/CO2 | 0-40 l/min | 0-315 Bar | 0-50 l/min | 200 Bar | W21,8 X 1/14" | G1/4 RH |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 0700 017 619 | Argon/CO2 | 2 Bar (fixed) | 0-315 Bar | | 200 Bar | W24,32 X 1/14" | G3/8 |
| 0700 017 472 | Argon/CO2 | 2 Bar (fixed) | 0-315 Bar | | 200 Bar | W21,8 x 1/14" | G3/8 |
| 0701 300 021 | Flowmeter for TIG. 16 l/min. used with 0700 017 619. | | | | | G3/8 | G3/8 |
| 0701 300 022 | Flowmeter for MIG/MAG. 30 l/min. used with 0700 017 619. | | | | | G3/8 | G3/8 |

### Accessories

| Part Number | Model | Description |
|---|---|---|
| 1408-0162 | Gasket | Nylon gasket for oxygen, argon and CO2 regulators. Ø18,5 x 11,8mm |
| 1408-0163 | Gasket | Nylon gasket for acetylene regulators. Ø18,5 x 9,6mm |

# Regulator/flowmeter combination

## Optiflow™

**Optiflow an exciting mix of economy and performance!**

- **Can reduce shielding gas consumption by 50%!**
- **Greatly reduces initial gas surge – improving weld quality**
- **The reduction in the gas surge results in less turbulence around the weld pool**
- **Less downtime in changing cylinders due to the increased efficiency of the Optiflow**
- **Available in two different basic versions – either for connection to gas cylinders or as part of a system for outlet points**
- **Multi stage design giving steady gas flow throughout the life of the cylinder**

Optiflow

Optiflow II

**Optiflow™**
Offering up to 50% gas saving whilst reducing the gas surge and reducing the risk of porosity in the welding joint.

**Optiflow II**
All the features of the Optiflow but with the addition of an extra gas outlet should there be a wish to use a backing gas out of the same cylinder. The same savings for the shielding gas are obtained as with the Optiflow. The welding gas and backing gas can each be adjusted separately.

**Optiflow Outlet Points**
Offering the same gas saving features as the Optiflow.

**Optiflow Built in Solution**
For use alongside a normal regulator in order to add the gas saving function to a welding machine or feeder unit

Optiflow
Outlet Points

Optiflow
Gas Saver Solution



### Beställningsinformation

| Description | Inlet and Outlet Connection | Gas Type | Gas Flow | Part Number |
|---|---|---|---|---|
| Optiflow ar/mix | W24,32 x 1/14” inlet, G3/8” BSP outlet | Argon/Mix | 30 LPM | 0700 016 990 |
| Optiflow II ar/mix with 2 flowmeters | W24,32 x 1/14” inlet, G3/8” BSP outlet | Argon/Mix | 30 LPM | 0700 016 995 |
| Optiflow outlet point | G3/8” BSP inlet and outlet | Argon/Mix | 30 LPM | 0700 016 998 |
| Optiflow outlet point lockable | G3/8” BSP inlet and outlet | Argon/Mix | 30 LPM | 0700 016 999 |
| Optiflow for Altop/other quick connectors | Altop quick connectors | Argon/Mix | 30 LPM | 0700 017 000 |
| Optiflow ar/mix s/e NEVOC | NEVOC inlet, G3/8” RH outlet | Argon/Mix | 30 LPM | 0700 017 001 |

### Accessories

| Part Number | Description |
|---|---|
| 0700 016 985 | Replacement Gauge |
| 0700 016 986 | Replacement Flowmeter |

ESAB
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ESAB

WELDING
CUTTING
HEATING
TOO HIGH
OXYGEN
bar
psi
ISO 5171
L.P.
OXYGEN
Single Stage 4 bar
H.P.

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MANAGEMENT SYSTEM CERTIFICATION
DNV·GL
ISO 9001 = ISO 14001
OHSAS 18001