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1979...*



CATALOGUE





Tüm Hakları Saklıdır.

YILDIZ GAZ ARMATURLARI SAN. TIC. A.Ş. is the leading provider of welding and cutting solutions in Turkey with more than its 120 expert personnel and 'YILDIZ' brand is the best-known brand in welding & cutting sector in Turkey. In 2012, our new factory is established as a modern and technologically well-equipped building on a 18.000 m<sup>2</sup> closed area, in Istanbul.

Our company is the market leader in Turkey in the production of oxy-gas welding and cutting equipment with the best service backup and also with its high experience and knowledge in welding and cutting sector.

Our activities in production range have been steadily growing since 1979 in accordance with the International Standards and with our customers' needs. We are also producing for many well-known through reputable companies throughout the world with YILDIZ brand and also as OEM for many years.

YILDIZ brand is one of the well-known welding& cutting equipment brands in Europe and we attempt to grow in the market of Asia, Middle East and Africa with the aim of being one of the leading manufacturers in the world.

YILDIZ has the ISO 9001 Certification which shows its professionalism on production and company organization. Its products standardization according to International norms have been approved by the most important certification bodies on worldwide like TÜV, APRAGAZ and TSE. Our aim is to supply quality products, best service and competitive prices by investing people and following up last improvements on technology both for product and production methods. To increase its productivity, YILDIZ adopted lean production method. Based on that, its production area is equipped with new and modern machines, advanced automation systems and innovative production & assembly lines. As an advantage of the lean production method, YILDIZ continues to decrease production costs and boost productivity increasingly. As a result of the lean production method which is being practiced successfully in recent years, YILDIZ is honored to receive the award of 'Best National Productivity Award of 2017' in Turkey.



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# PRESSURE REGULATORS



Pressure regulators which are produced according to EN ISO 2503 standard, reduce inlet pressure to working pressure and maintain the outlet pressure throughout the working process.

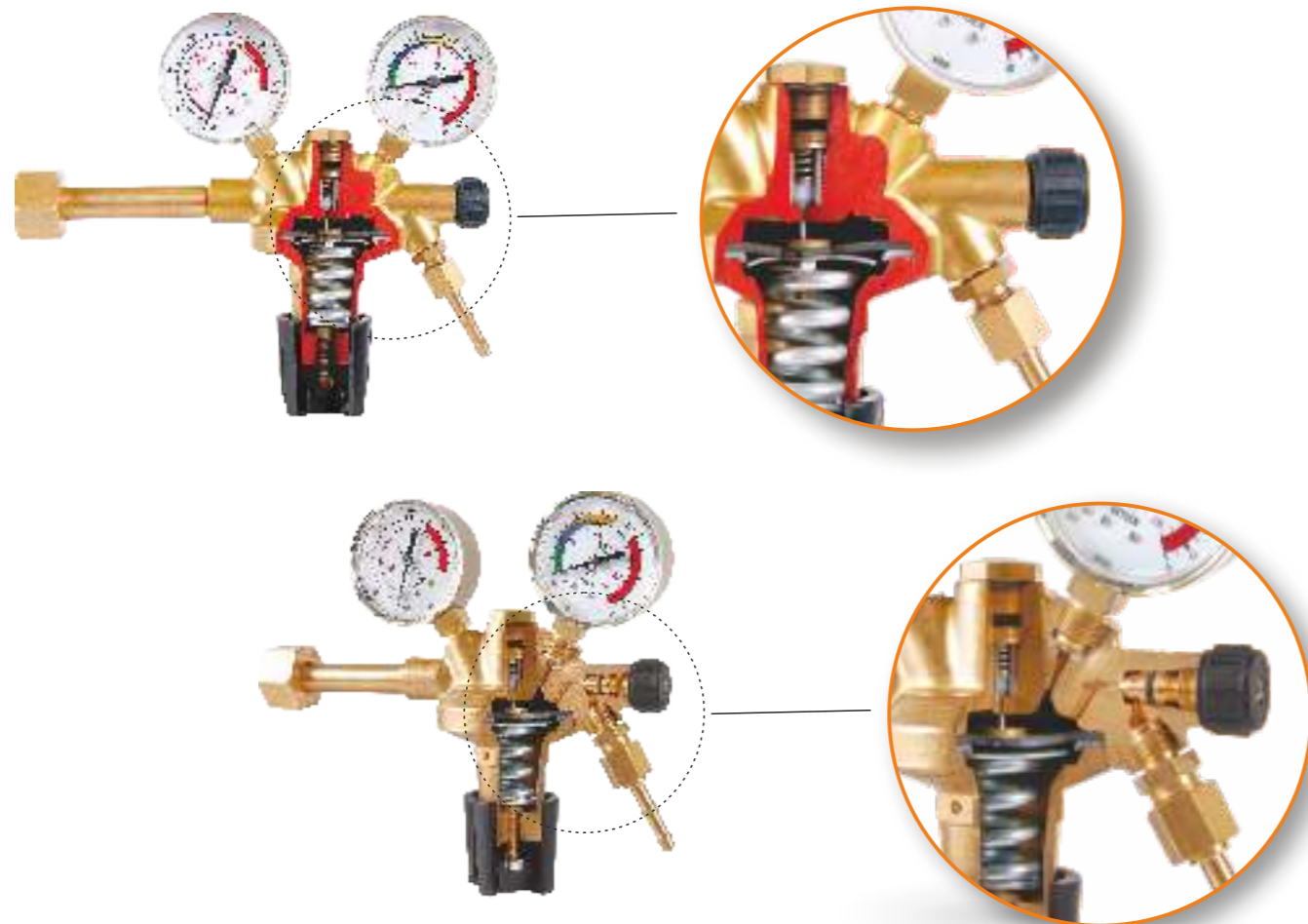
In other words, it is a kind of valve system which adjusts and fixes the gas pressure to the required outlet pressure. During the operation, the gas cylinder or the gas source is consumed gradually by the system and as a result of that, outlet pressure may differ until the gas in the gas source runs out totally. The aim of a pressure regulator is to prevent that and keep the outlet pressure stable as much as possible until the end of the gas in the gas source.

## The Basics of Pressure Regulators

The pin system which is the heart of a pressure regulator regulates the gas amount and the outlet pressure. Arranging the force balance on the diaphragm results in opening or closing of the pin system.

During the work of pressure regulators, the force which is generated by the inlet pressure and the force which is generated by the pressure of the spring are came together on the valve seat and they were balanced through the pin system. As a result of that the pin system supplies requested amount of gas and a stable pressure to the outlet of the pressure regulator.

A diaphragm and a spring are other fundamental elements which regulate the pressure in pressure regulators. Consequently, the appropriate design of the diaphragm and the geometrical appropriateness of the pin system are key elements of a functional pressure regulator as well as using high quality material in production of the device.



## Product Selection

There are various types of pressure regulators to fulfill different flow rates and outlet pressure requirements. To ensure a steady flow rate and a sufficient gas rate, all the working conditions and operational parameters must be thoroughly considered.

### 1. Working Gas Type

The type of gas is the main factor for choosing a pressure regulator and it also determines the inner structure and raw materials to be used in a pressure regulator. Even if the connection dimensions of a pressure regulator matches to the gas cylinder, a pressure regulator is not allowed to use with a different gas type. It could cause injury or death and damage to property or equipments.

### 2. Gas Pressure

Before operations, pressure range of the pressure regulator (inlet pressure) and requested outlet pressure (working pressure) must be considered. There are different types of pressure regulators for cutting, welding and soldering processes. For special requirements, there are also high pressure regulator series. Before the operation, you must pay attention to the maximum outlet pressure which is written on the pressure regulator for your safety.

### 3. Gas Flow Rate

For choosing a suitable pressure regulator, gas flow rate is as important as the gas pressure range. The capacity of the cylinder or the gas source must be also considered beside the flow rate. There are different series of pressure regulators for different flow rate requirements.

## Safety

During the production and quality control process, producers paid utmost attention to produce a safe pressure regulator and the safety of a pressure regulator is guaranteed by the producer only if the operator follows safety precautions in the user's manual. Operators who are handling the product are responsible to carry out the operation safely.

- Especially in cutting and welding operations, high pressure of gas can be very dangerous.
- If oxygen combines interferes with oil, grease, organic substances etc, it can cause fire or explosion. Therefore, it is essential to clean up the area from oil, grease and etc. before starting operations for a safe environment.
- Mechanical failures, leakage or broken particles can cause damage on pressure regulators.
- Leakages from flammable gas cylinders results in explosion or fire especially when the gas accumulates for a period of time.
- Operators must pay great attention to the environment while using pressure regulators. YILDIZ GAZ designs and produces high quality and durable pressure regulators. Nevertheless, they must be carried very carefully, maintained regularly and they must be used relevantly by obeying safety rules.
- Instructions manual must be carefully read and well understood before the operations. Operators must follow each steps in the instructions manual.

### OXYGEN PRESSURE REGULATOR

Order No	Gas Inlet Connection	Gas Outlet Connection	Gas Inlet Pressure	Gas Outlet Pressure	Qmax	Protection	Shut off Valve
5301					150 m³/h	-	-
5301S	G 3/4"	G 3/8"	0-230 bar	0-10 bar	-	✓	-
5301V					150 m³/h	-	✓
5301SV					-	✓	✓

#### TECHNICAL SPECIFICATIONS

- Cutting, heating, welding and brazing applications.
- Compliance with EN ISO 2503 (TSE, APRAGAZ).
- Stainless steel filter to lengthen product life.
- Brass cover and body design.
- Colored design indicating gas type.
- Registered manometer protection design.
- Improved relief valve providing security.
- Extended gas inlet stem for gas cylinder protection.
- SV model (open/close valve for short period stop).



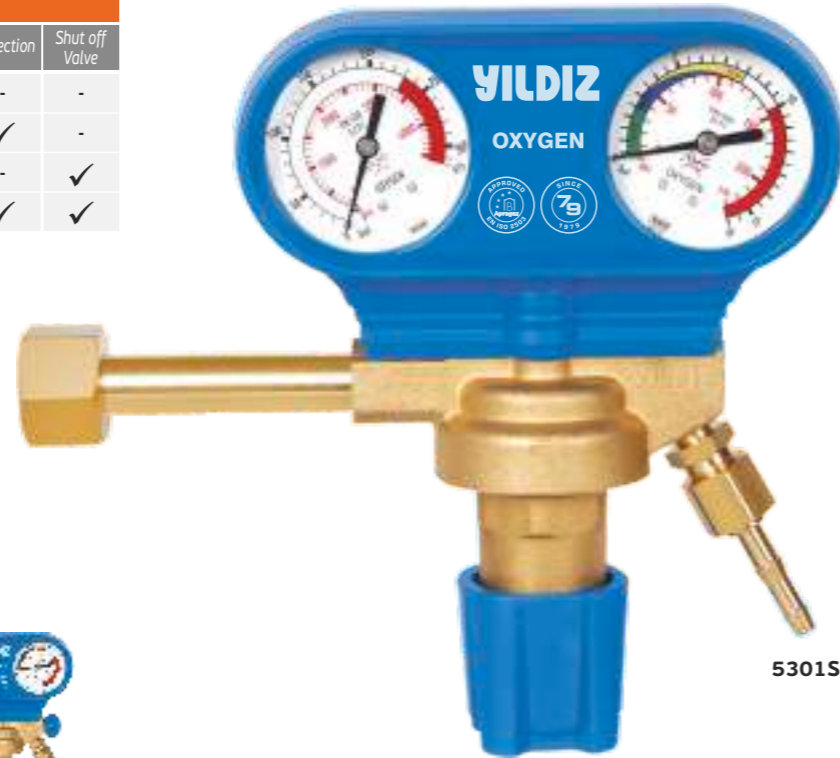
5301



5301V



5301SV



5301S

### NATURAL GAS PRESSURE REGULATOR

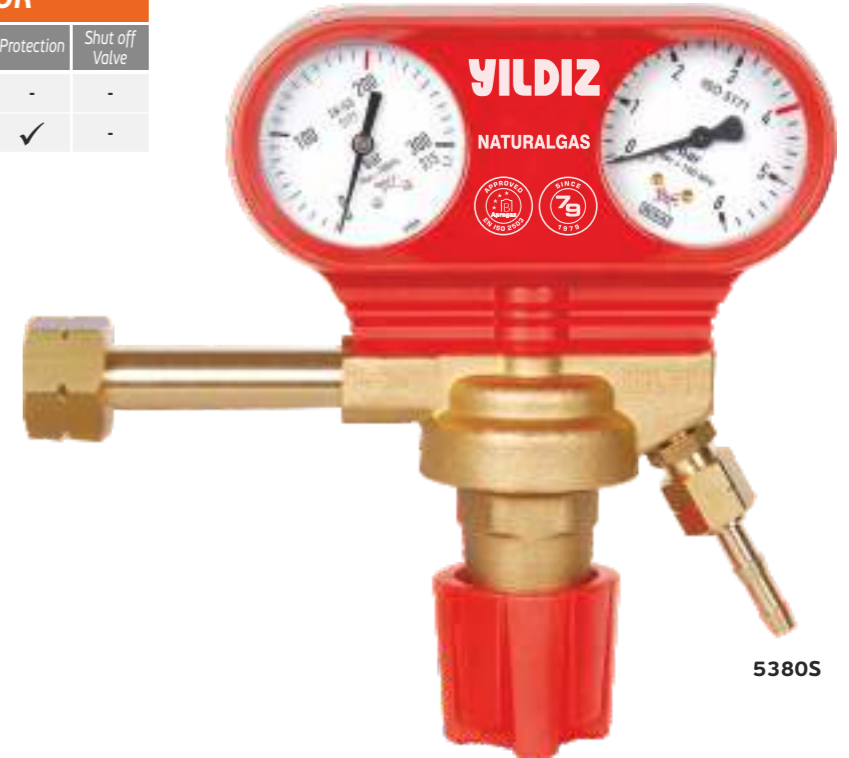
Order No	Gas Inlet Connection	Gas Outlet Connection	Gas Inlet Pressure	Gas Outlet Pressure	Qmax	Protection	Shut off Valve
5380	W21.80x1/14" Left	G 3/8" Left	0-230 bar	0-4 bar	50 m³/h	-	-
5380S						✓	-

#### TECHNICAL SPECIFICATIONS

- Cutting, heating, welding and brazing applications.
- Compliance with EN ISO 2503 (TSE, APRAGAZ).
- Stainless steel filter to lengthen product life.
- Brass cover and body design.
- Colored design indicating gas type.
- Registered manometer protection design.
- Improved relief valve providing security.
- Extended gas inlet stem for gas cylinder protection.
- SV model (open/close valve for short period stop).



5380



5380S

### ACETYLENE PRESSURE REGULATOR

Order No	Gas Inlet Connection	Gas Outlet Connection	Gas Inlet Pressure	Gas Outlet Pressure	Qmax	Protection	Shut off Valve
5311						-	-
5311V	W23x1/18"					-	✓
5311SV						✓	✓
5312		G 3/8" Left	0-25 bar	0-1.5 bar	35 m³/h	-	-
5312S						✓	-
5312V	Clamped					-	✓
5312SV						✓	✓

#### TECHNICAL SPECIFICATIONS

- Cutting, heating, welding and brazing applications.
- Compliance with EN ISO 2503 (TSE, APRAGAZ).
- Stainless steel filter to lengthen product life.
- Brass cover and body design.
- Colored design indicating gas type.
- Registered manometer protection design.
- Improved relief valve providing security.
- Extended gas inlet stem for gas cylinder protection.
- SV model (open/close valve for short period stop).



5311



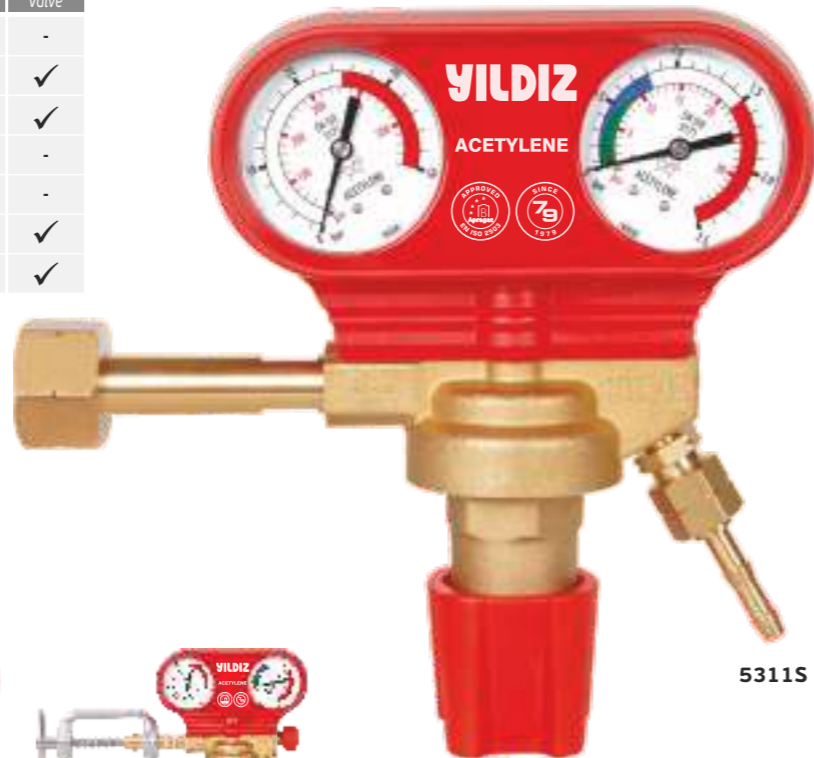
5311V



5311SV



5312SV



5311S

### NITROGEN PRESSURE REGULATOR

Order No	Gas Inlet Connection	Gas Outlet Connection	Gas Inlet Pressure	Gas Outlet Pressure	Qmax	Protection	Shut off Valve
5330				0-4 bar	40 m³/h	-	-
5331				0-10 bar	150 m³/h	-	-
5330S	G 5/8" Out	G 3/8"	0-230 bar	0-4 bar	40 m³/h	✓	-
5331S				0-4 bar	40 m³/h	✓	-
5331SV				0-10 bar	150 m³/h	✓	✓
5330SV				0-4 bar	40 m³/h	✓	✓

#### TECHNICAL SPECIFICATIONS

- TIG and shielding gas applications.
- Compliance with EN ISO 2503 (TSE, APRAGAZ).
- Stainless steel filter to lengthen product life.
- Brass cover and body design.
- Colored design indicating gas type.
- Registered manometer protection design.
- Improved relief valve providing security.
- Extended gas inlet stem for gas cylinder protection.
- SV model (open/close valve for short period stop).
- Ø 4 - Ø 6 mm hose nipple.



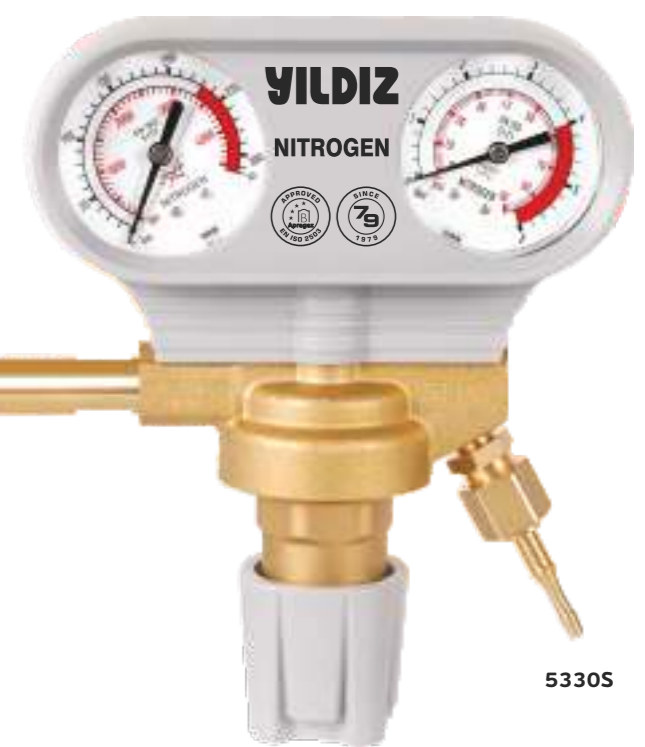
5330 / 5331



5330V



5330SV / 5331SV



5330S

### ARGON AND MIXED PRESSURE REGULATOR

Order No	Gas Type	Gas Inlet Connection	Gas Outlet Connection	Gas Inlet Pressure	Gas Outlet Pressure	Protection	Shut off Valve
5340	Argon	G 5/8" Out	G 1/4"	0-230 bar	0-21 l/min.	-	-
5342	Mixed Gas					-	-
5340S	Argon					✓	-
5342S	Mixed Gas					✓	-
5340SV	Argon					✓	✓

#### TECHNICAL SPECIFICATIONS

- TIG, MIG/MAG plasma welding, plasma cutting and shielding gas applications.
- Compliance with EN ISO 2503 (TSE, APRAGAZ).
- Stainless steel filter to lengthen product life.
- Brass cover and body design.
- Colored design indicating gas type.
- Registered manometer protection design.
- Improved relief valve providing security.
- Extended gas inlet stem for gas cylinder protection.
- SV model (open/close valve for short period stop).
- Ø 4 - Ø 6 mm hose nipple.



5340S

### CO<sub>2</sub> PRESSURE REGULATOR

Order No	Gas Inlet Connection	Gas Outlet Connection	Gas Inlet Pressure	Gas Outlet Pressure	Protection	Shut off Valve
5350					-	-
5350S	W21.80x1/14"	G 1/4"	0-230 bar	0-21 l/min.	✓	-
5350SV					✓	✓

#### TECHNICAL SPECIFICATIONS

- MIG/MAG, laser cutting, plasma cutting.
- Compliance with EN ISO 2503 (TSE, APRAGAZ).
- Stainless steel filter to lengthen product life.
- Brass cover and body design.
- Colored design indicating gas type.
- Registered manometer protection design.
- Improved relief valve providing security.
- Extended gas inlet stem for gas cylinder protection.
- SV model (open/close valve for short period stop).
- Ø 4 - Ø 6 mm hose nipple.



5350S

### OXYGEN PRESSURE REGULATOR

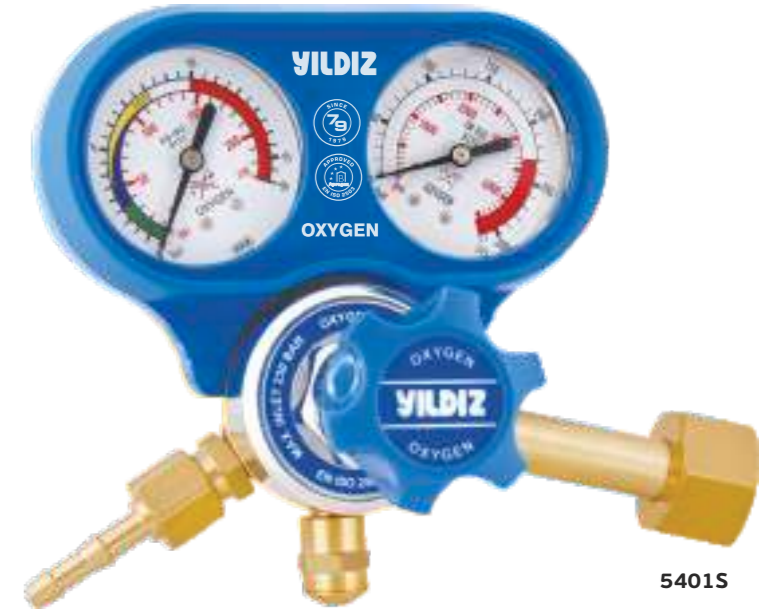
Order No	Gas Inlet Connection	Gas Outlet Connection	Gas Inlet Pressure	Gas Outlet Pressure	Qmax	Protection
5401	G 3/4"	G 3/8"	0-230 bar	0-10 bar	150 m³/h	-
5401S						✓

#### TECHNICAL SPECIFICATIONS

- Cutting, heating, welding and brazing applications.
- Compliance with EN ISO 2503 (TSE, APRAGAZ).
- Stainless steel filter to lengthen product life.
- Brass cover and body design.
- Colored design indicating gas type.
- Registered manometer protection design.
- Improved relief system providing security.
- Extended gas inlet stem for gas cylinder protection.
- Right side entry.



5401



5401S

### ACETYLENE PRESSURE REGULATOR

Order No	Gas Inlet Connection	Gas Outlet Connection	Gas Inlet Pressure	Gas Outlet Pressure	Qmax	Protection
5411	W23X1/18"	G 3/8" Left	0-25 bar	0-1.5 bar	35 m³/h	-
5412	Clamped					-
5411S	W23X1/18"					✓
5412S	Clamped					✓

#### TECHNICAL SPECIFICATIONS

- Cutting, heating, welding and brazing applications.
- Compliance with EN ISO 2503 (TSE, APRAGAZ).
- Stainless steel filter to lengthen product life.
- Brass cover and body design.
- Colored design indicating gas type.
- Registered manometer protection design.
- Improved relief system providing security.
- Extended gas inlet stem for gas cylinder protection.
- Right side entry.



5411



5412S



5411S

### NITROGEN PRESSURE REGULATOR

Order No	Gas Inlet Connection	Gas Outlet Connection	Gas Inlet Pressure	Gas Outlet Pressure	Qmax	Protection
5430	G 5/8" Out	G 3/8"	0-230 bar	0-4 bar	40 m³/h	-
5431				0-10 bar	150 m³/h	-
5430S				0-4 bar	40 m³/h	✓
5431S				0-10 bar	150 m³/h	✓

#### TECHNICAL SPECIFICATIONS

- TIG and protective gas applications.
- Compliance with EN ISO 2503 (TSE, APRAGAZ).
- Stainless steel filter to increase product life.
- Brass cover and body design.
- Registered manometer protection design.
- Extended gas inlet stem for gas cylinder protection.
- Ø 4 - Ø 6 mm hose nipple.



5431S



5430 / 5431



5430S

### ARGON AND MIXED GAS PRESSURE REGULATOR

Order No	Gas Type	Gas Inlet Connection	Gas Outlet Connection	Gas Inlet Pressure	Gas Outlet Pressure	Protection
5440	Argon	G 5/8" Out	G 1/4"	0-230 bar	0-21 l/min.	-
5441	Mixed Gas					-
5440S	Argon					✓
5441S	Mixed Gas					✓

#### TECHNICAL SPECIFICATIONS

- TIG, MIG/MAG, plasma welding, plasma cutting, shielding gas applications.
- Compliance with EN ISO 2503 (TSE, APRAGAZ).
- Stainless steel filter to increase product life.
- Brass cover and body design.
- Registered manometer protection design.
- Improved relief system providing security.
- Extended gas inlet stem for gas cylinder protection.
- Right side entry.
- With flow manometer.
- Ø 4 - Ø 6 mm hose nipple.



5440S



5440 / 5441



5441S

### CO<sub>2</sub> PRESSURE REGULATOR

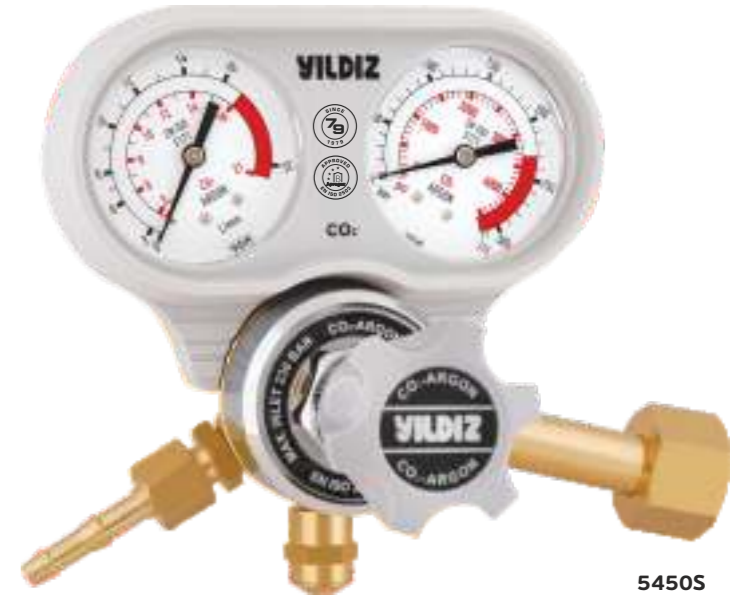
Order No	Gas Inlet Connection	Gas Outlet Connection	Gas Inlet Pressure	Gas Outlet Pressure	Protection
5450	W21.80x1/14"	G 1/4"	0-230 bar	0-21 l/min.	-
5450S					✓

#### TECHNICAL SPECIFICATIONS

- MIG/MAG, laser cutting, plasma cutting.
- Compliance with EN ISO 2503 (TSE, APRAGAZ).
- Stainless steel filter to increase product life.
- Brass cover and body design.
- Registered manometer protection design.
- Improved relief system providing security.
- Extended gas inlet stem for gas cylinder protection.
- With flow manometer.
- Ø 4 - Ø 6 mm hose nipple.



5450



5450S

### ARGON PRESSURE REGULATOR

Order No	Gas Inlet Connection	Gas Outlet Connection	Gas Inlet Pressure	Gas Outlet Flow	Protection
5440F16	G 5/8" Out	G 1/4"	0-230 bar	16 l/min.	-
5440F30				30 l/min.	-
5440SF16				16 l/min.	✓
5440SF30				30 l/min.	✓

#### TECHNICAL SPECIFICATIONS

- MIG/MAG plasma welding, plasma cutting, shielding gas applications.
- Compliance with EN ISO 2503 (TSE, APRAGAZ).
- Stainless steel filter to increase product life.
- Brass cover and body design.
- Improved relief system providing security.
- Extended gas inlet stem for gas cylinder protection.
- Colored design indicating gas type.
- Right side entry.
- Flow meter design for accurate settings.



5440SF16



5440SF30

### CO<sub>2</sub> PRESSURE REGULATOR

Order No	Gas Inlet Connection	Gas Outlet Connection	Gas Inlet Pressure	Gas Outlet Flow	Protection
5450F16	W21.80x1/14"	G 1/4"	0-230 bar	16 l/min.	-
5450F30				30 l/min.	-
5450SF16				16 l/min.	✓
5450SF30				30 l/min.	✓

#### TECHNICAL SPECIFICATIONS

- TIG, MIG/MAG, plasma welding, plasma cutting, shielding gas applications.
- Compliance with EN ISO 2503 (TSE, APRAGAZ).
- Stainless steel filter to increase product life.
- Brass cover and body design.
- Improved relief system providing security.
- Extended gas inlet stem for gas cylinder protection.
- Colored design indicating gas type.
- Right side entry.
- Flow meter design for accurate settings.



5450SF16



5450SF30

### OXYGEN PRESSURE REGULATOR

Order No	Gas Inlet Connection	Gas Outlet Connection	Gas Inlet Pressure	Gas Outlet Pressure	Gas Flow	Protection
5701	G 3/4"	G 3/8"	0-230 bar	0-10 bar	30 m³/h	-
5701S						✓

#### TECHNICAL SPECIFICATIONS

- Cutting, heating, welding and brazing applications.
- Compliance with EN ISO 2503 (TSE, APRAGAZ).
- Brass cover and body design.
- Colored design indicating gas type.
- Improved relief valve providing security.
- Ø 63 mm manometer.
- Back side entry.
- S model (with manometer protection).



5701S



5701

### PROPANE PRESSURE REGULATOR

Order No	Gas Inlet Connection	Gas Outlet Connection	Gas Outlet Pressure	Gas Flow	Protection
5420	W21.80x1/14" Left	G 3/8" Left	0-4 bar	5 m³/h	-
5420S					✓

#### TECHNICAL SPECIFICATIONS

- Cutting, heating, welding and brazing applications.
- Compliance with EN ISO 2503 (TSE, APRAGAZ).
- Stainless steel filter to increase product life.
- Brass cover and body design.
- Registered manometer protection design.
- Improved relief system providing security.
- Extended gas inlet stem for gas cylinder protection.
- Right side entry.



5420S

### ACETYLENE PRESSURE REGULATOR

Order No	Gas Inlet Connection	Gas Outlet Connection	Gas Inlet Pressure	Gas Outlet Pressure	Gas Flow	Protection
5711	W 23x1/18"	G 3/8" Left	0-25 bar	0-1.5 bar	5 m³/h	-
5711S						✓

#### TECHNICAL SPECIFICATIONS

- Cutting, heating, welding and brazing applications.
- Compliance with EN ISO 2503 (TSE, APRAGAZ).
- Brass cover and body design.
- Colored design indicating gas type.
- Improved relief valve providing security.
- Ø 63 mm manometer.
- Back side entry.
- S model (with manometer protection).



5711S



5711

### ARGON PRESSURE REGULATOR

Order No	Gas Inlet Connection	Gas Outlet Connection	Gas Inlet Pressure	Gas Outlet Flow	Protection
5740	G 5/8" Out	G 1/4"	0-230 bar	0-21 l/min.	-
5740S					✓

#### TECHNICAL SPECIFICATIONS

- TIG and protective gas applications.
- Compliance with EN ISO 2503 (TSE, APRAGAZ).
- Brass cover and body design.
- Improved relief valve providing security.
- Colored design indicating gas type.
- Back side entry.
- Ø 63 mm flow manometer.
- Ø 4 - Ø 6 mm hose nipple.



5740S



5740

### CO<sub>2</sub> PRESSURE REGULATOR

Order No	Gas Inlet Connection	Gas Outlet Connection	Gas Inlet Pressure	Gas Outlet Flow	Protection
5750	W 21,8 x 1/14"	G 1/4"	0-230 bar	0-21 l/min.	-
5750S					✓

#### TECHNICAL SPECIFICATIONS

- MIG/MAG, laser cutting, plasma cutting.
- Compliance with EN ISO 2503 (TSE, APRAGAZ).
- Brass cover and body design.
- Improved relief valve providing security.
- Colored design indicating gas type.
- Back side entry.
- Ø 63 mm flow manometer.
- Ø 4 - Ø 6 mm hose nipple.



5750S



5750

### OXYGEN PRESSURE REGULATOR

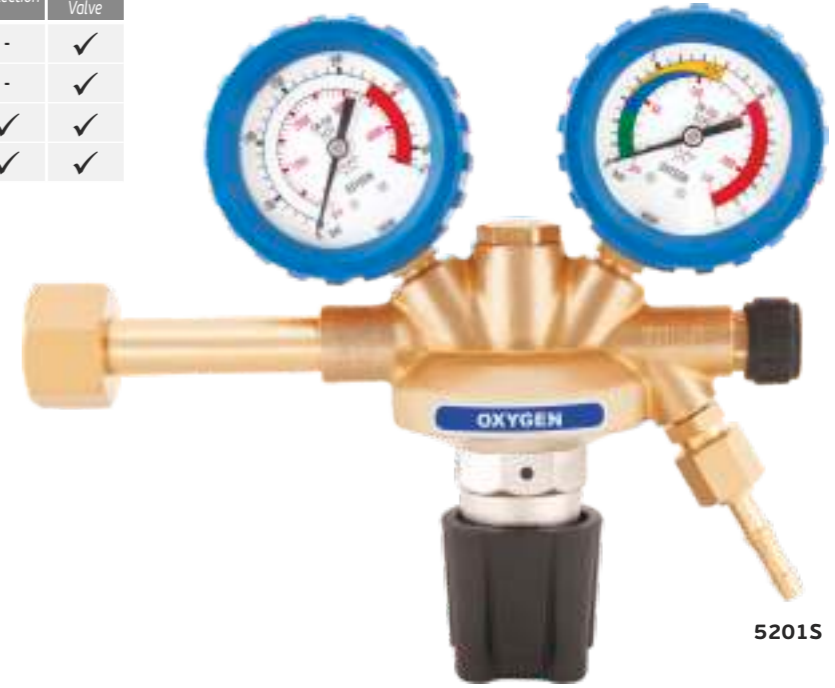
Order No	Gas Inlet Connection	Gas Outlet Connection	Gas Inlet Pressure	Gas Outlet Pressure	Qmax	Protection	Shut off Valve
5201	G 3/4"	G 3/8"	0-230 bar	0-10 bar	30 m³/h	-	✓
5201C						-	✓
5201S						✓	✓
5201SC						✓	✓

#### TECHNICAL SPECIFICATIONS

- Cutting, heating, welding and brazing applications.
- Single stage pressure reducer.
- Stainless steel filter to increase product life.
- Compliance with EN ISO 2503 (TSE, APRAGAZ).
- Zamac cover and brass body design.
- Colored design indicating gas type.
- Improved relief valve providing security.
- Extended gas inlet stem for gas cylinder protection.
- **Advanced design that prevents pressure drop or rise (5201C).**



5201



5201S

### ACETYLENE PRESSURE REGULATOR

Order No	Gas Inlet Connection	Gas Outlet Connection	Gas Inlet Pressure	Gas Outlet Pressure	Qmax	Protection	Shut off Valve
5211	W23X1/18"					-	✓
5211C						-	✓
5211S						✓	✓
5211SC		G 3/8" Left	0-25 bar	0-1.5 bar	5 m³/h	✓	✓
5212						-	✓
5212C						-	✓
5212S						✓	✓
5212SC						✓	✓

#### TECHNICAL SPECIFICATIONS

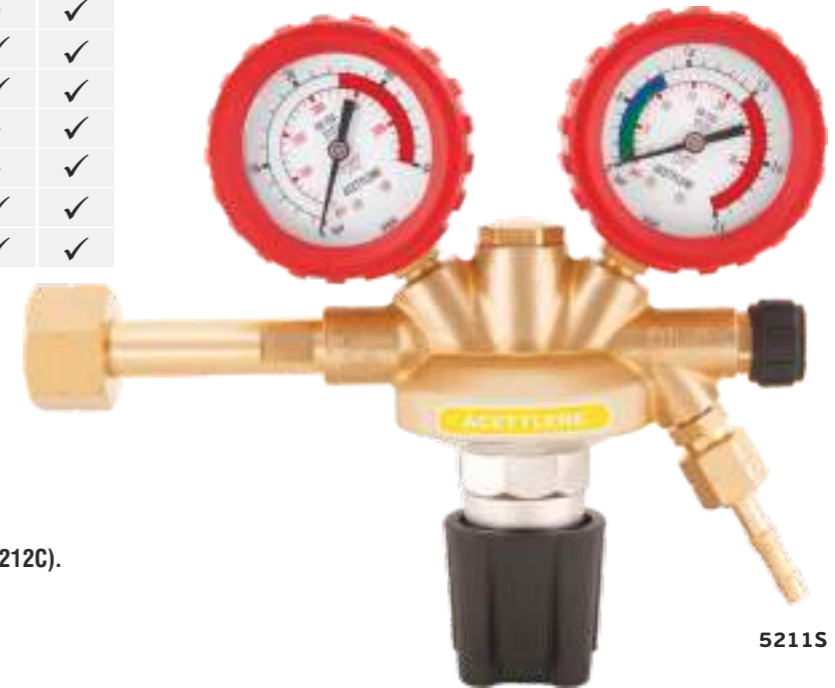
- Cutting, heating, welding and brazing applications.
- Single stage pressure reducer.
- Stainless steel filter to increase product life.
- Compliance with EN ISO 2503 (TSE, APRAGAZ).
- Zamac cover and brass body design.
- Colored design indicating gas type.
- Improved relief valve providing security.
- Extended gas inlet stem for gas cylinder protection.
- **Advanced design that prevents pressure drop or rise (5211C - 5212C).**



5211



5212S



5211S

### NITROGEN PRESSURE REGULATOR

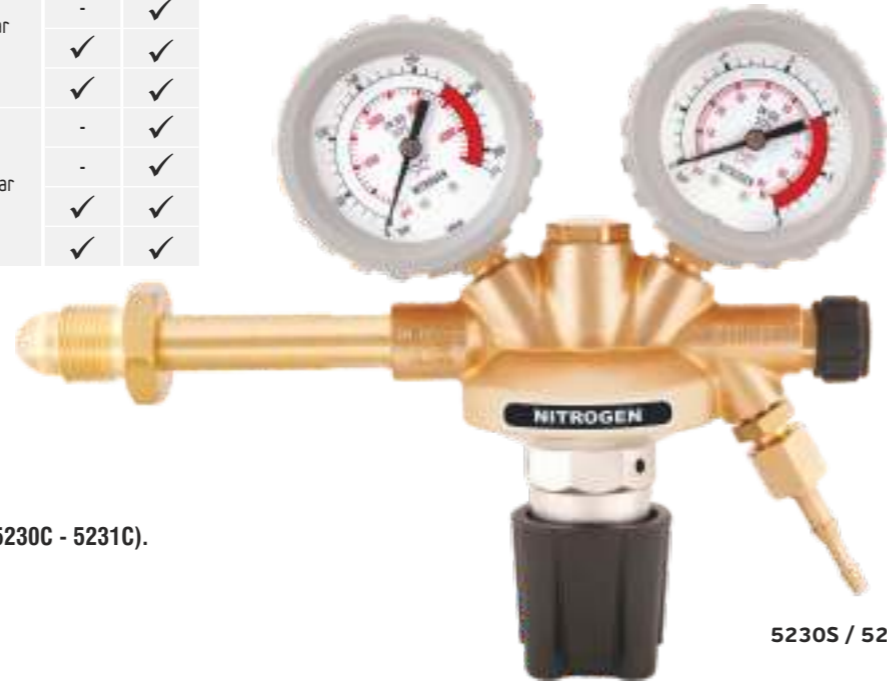
Order No	Gas Inlet Connection	Gas Outlet Connection	Gas Inlet Pressure	Gas Outlet Pressure	Protection	Shut off Valve
5230	G 5/8" Out	G 3/8"	0-230 bar	0-4 bar	-	✓
5230C					-	✓
5230S					✓	✓
5230SC					✓	✓
5231			0-10 bar	0-10 bar	-	✓
5231C					-	✓
5231S					✓	✓
5231SC					✓	✓

#### TECHNICAL SPECIFICATIONS

- TIG and protective gas applications.
- Single stage pressure reducer.
- Compliance with EN ISO 2503 (TSE, APRAGAZ).
- Stainless steel filter to increase product life.
- Zamac cover and brass body design.
- Improved relief valve providing security.
- Ø 4 - Ø 6 mm hose nipple.
- **Advanced design that prevents pressure drop or rise (5230C - 5231C).**



5230 / 5231



5230S / 5231S

### CO<sub>2</sub> PRESSURE REGULATOR

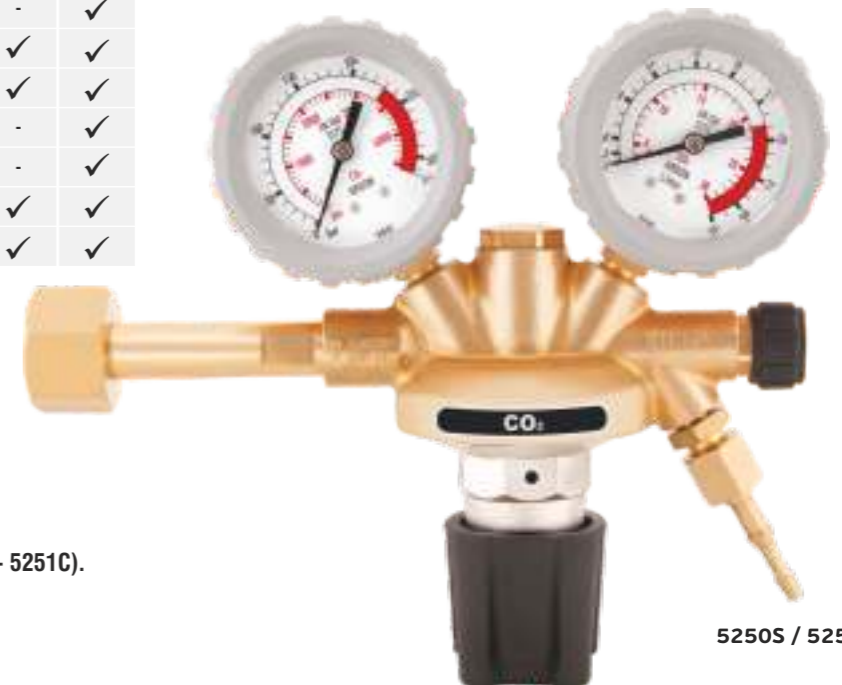
Order No	Gas Inlet Connection	Gas Outlet Connection	Gas Inlet Pressure	Gas Outlet Flow	Protection	Shut off Valve
5250	W21.80x1/14"	G 1/4"	0-230 bar	0-21 l/min.	-	✓
5250C					-	✓
5250S					✓	✓
5250SC					✓	✓
5251			0-10 bar	0-10 bar	-	✓
5251C					-	✓
5251S					✓	✓
5251SC					✓	✓

#### TECHNICAL SPECIFICATIONS

- TIG, MIG/MAG, plasma welding, plasma cutting.
- Single stage pressure reducer.
- Compliance with EN ISO 2503 (TSE, APRAGAZ).
- Stainless steel filter to increase product life.
- Zamac cover and brass body design.
- Improved relief valve providing security.
- With flow manometer.
- Ø 4 - Ø 6 mm hose nipple.
- **Advanced design that prevents pressure drop or rise (5250C - 5251C).**



5250 / 5251



5250S / 5251S

### ARGON GAS PRESSURE REGULATOR

Order No	Gas Inlet Connection	Gas Outlet Connection	Gas Inlet Pressure	Gas Outlet Pressure/Flow	Protection	Shut off Valve
5240	G 5/8" Out	G 1/4"	0-230 bar	0-21 l/min.	-	✓
5240C					-	✓
5240S					✓	✓
5240SC					✓	✓
5241		G 3/8"	0-10 bar	0-10 bar	-	✓
5241C					-	✓
5241S					✓	✓
5241SC					✓	✓

#### TECHNICAL SPECIFICATIONS

- TIG and protective gas applications.
- Compliance with EN ISO 2503 (TSE, APRAGAZ).
- Stainless steel filter to increase product life.
- Zamac cover and brass body design.
- Improved relief valve providing security.
- Single stage pressure reducer.
- Left side entry.
- With flow manometer.
- Ø 4 - Ø 6 mm hose nipple.
- **Advanced design that prevents pressure drop or rise (5240C - 5241C)**



5240 / 5241



5240S / 5241S

### ARGON AND CO<sub>2</sub> PRESSURE REGULATOR

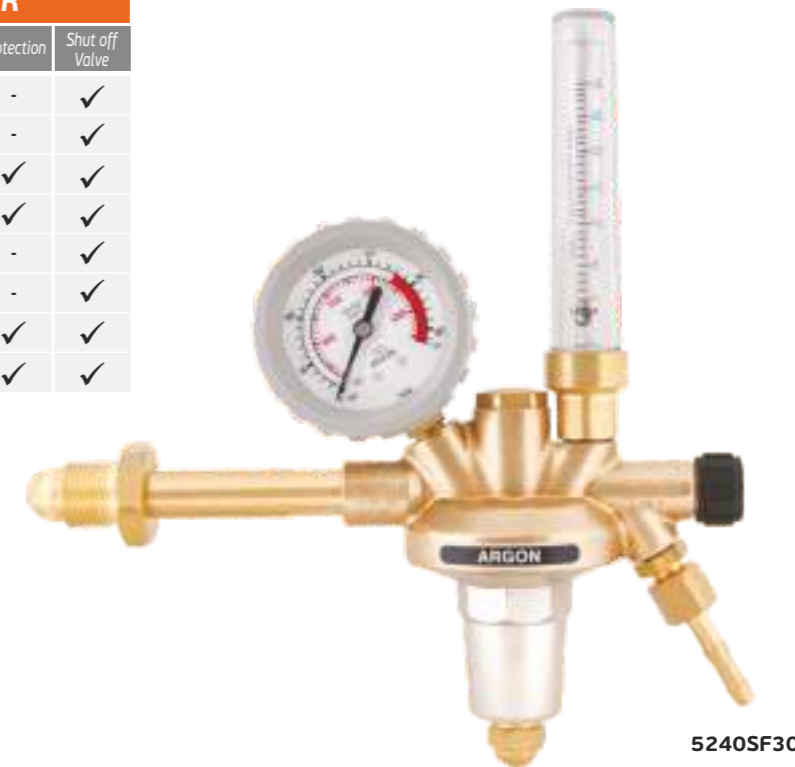
Order No	Gas Type	Gas Inlet Connection	Gas Outlet Connection	Gas Inlet Pressure	Gas Outlet Flow	Protection	Shut off Valve
5240F16	Argon	G 5/8" Out	G 1/4"	0-230 bar	16 l/min.	-	✓
5240F30					30 l/min.	-	✓
5240SF16					16 l/min.	✓	✓
5240SF30					30 l/min.	✓	✓
5250F16	CO <sub>2</sub>	W21.80x1/14"	G 1/4"	0-230 bar	16 l/min.	-	✓
5250F30					30 l/min.	-	✓
5250SF16					16 l/min.	✓	✓
5250SF30					30 l/min.	✓	✓

#### TECHNICAL SPECIFICATIONS

- MIG/MAG, plasma cutting and laser cutting.
- Single stage pressure reducer.
- Flow meter design for accurate settings.
- Compliance with EN ISO 2503 (TSE, APRAGAZ).
- Zamac cover and brass body design.
- Registered manometer protection design.
- Improved relief valve providing security.
- Extended gas inlet stem for gas cylinder protection.
- Stainless steel filter to increase product life.



5250F16



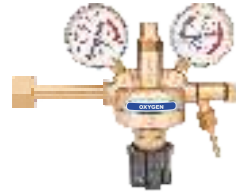
5240SF30

### OXYGEN PRESSURE REGULATOR

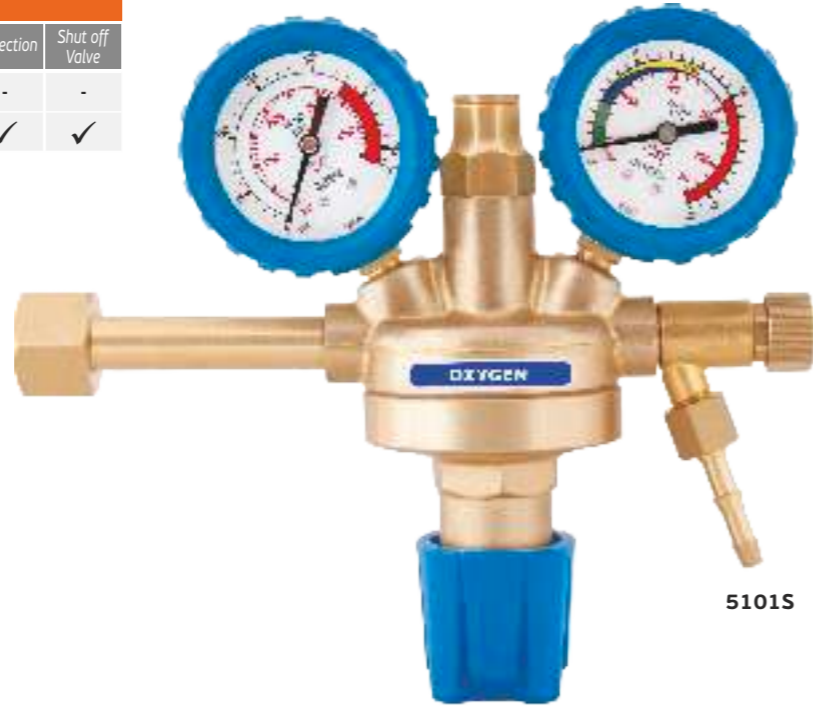
Order No	Gas Inlet Connection	Gas Outlet Connection	Gas Inlet Pressure	Gas Outlet Pressure	Qmax	Protection	Shut off Valve
5101	G 3/4"	G 3/8"	0-230 bar	0-10 bar	30 m³/h	-	-
5101S						✓	✓

#### TECHNICAL SPECIFICATIONS

- Cutting, heating, welding and brazing applications.
- Compliance with EN ISO 2503 (TSE, APRAGAZ).
- Stainless steel filter to increase product life.
- Brass cover and body design.
- Colored design indicating gas type.
- Improved relief valve providing security.
- Extended gas inlet stem for gas cylinder protection.



5101



5101S

### NITROGEN PRESSURE REGULATOR

Order No	Gas Inlet Connection	Gas Outlet Connection	Gas Inlet Pressure	Gas Outlet Pressure	Protection	Shut off Valve
5130	G 5/8" Out	G 3/8"	0-230 bar	0-4 bar	-	✓
5130S					✓	✓

#### TECHNICAL SPECIFICATIONS

- TIG and protective gas applications.
- Compliance with EN ISO 2503 (TSE, APRAGAZ).
- Stainless steel filter to increase product life.
- Brass cover and body design.
- Colored design indicating gas type.
- Extended gas inlet stem for gas cylinder protection.
- Improved relief valve providing security.



5130



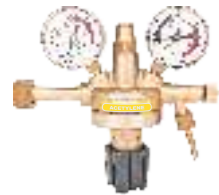
5130S

### ACETYLENE PRESSURE REGULATOR

Order No	Gas Inlet Connection	Gas Outlet Connection	Gas Inlet Pressure	Gas Outlet Pressure	Qmax	Protection	Shut off Valve
5111	W23X1/18"	G 3/8" Left	0-25 bar	0-1.5 bar	5 m³/h	-	✓
5111S						✓	✓
5112	Clamped					-	✓
5112S						✓	✓

#### TECHNICAL SPECIFICATIONS

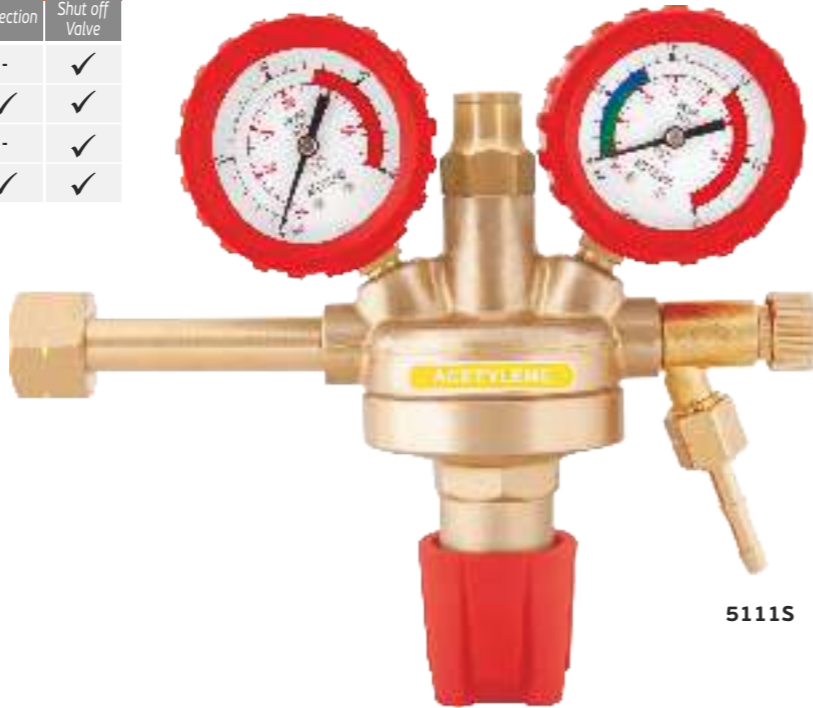
- Cutting, heating, welding and brazing applications.
- Compliance with EN ISO 2503 (TSE, APRAGAZ).
- Stainless steel filter to increase product life.
- Brass cover and body design.
- Colored design indicating gas type.
- Extended gas inlet stem for gas cylinder protection.



5111



5112S



5111S

### ARGON PRESSURE REGULATOR

Order No	Gas Inlet Connection	Gas Outlet Connection	Gas Inlet Pressure	Gas Outlet Pressure	Protection	Shut off Valve
5140	G 5/8" Out	G 1/4"	0-230 bar	0-21 l/min.	-	✓
5140S					✓	✓

#### TECHNICAL SPECIFICATIONS

- MIG/MAG, laser cutting, plasma cutting.
- Compliance with EN ISO 2503 (TSE, APRAGAZ).
- Stainless steel filter to increase product life.
- Brass cover and body design.
- Colored design indicating gas type.
- Extended gas inlet stem for gas cylinder protection.
- Improved relief valve providing security.



5140



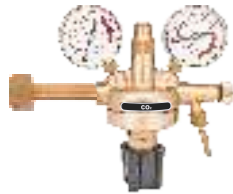
5140S

### CO<sub>2</sub> PRESSURE REGULATOR

Order No	Gas Inlet Connection	Gas Outlet Connection	Gas Inlet Pressure	Gas Outlet Flow	Protection	Shut off Valve
5150	W21.80x1/14"	G 1/4"	0-230 bar	0-21 l/min.	-	✓
5150S					✓	✓

#### TECHNICAL SPECIFICATIONS

- TIG, MIG/MAG, plasma welding, plasma cutting.
- Compliance with EN ISO 2503 (TSE, APRAGAZ).
- Stainless steel filter to increase product life.
- Brass cover and body design.
- Colored design indicating gas type.
- Extended gas inlet stem for gas cylinder protection.
- Improved relief valve providing security.



5150



5150S

### HELIUM, HYDROGEN AND DRY AIR PRESSURE REGULATOR

Order No	Gas Type	Gas Inlet Connection	Gas Outlet Connection	Gas Inlet Pressure	Gas Outlet Pressure	Qmax	Protection	Shut off Valve
5160	Helium	W21.80x1/14"	G 3/8"	0-230 bar	0-10 bar	270 m³/h	-	✓
5170	Hydrogen	W21.80x1/14" Left	G 3/8" Left			380 m³/h	-	✓
5190	Dry Air	W21.80x1/14"	G 3/8"			100 m³/h	-	✓
5160S	Helium	W21.80x1/14"	G 3/8"			270 m³/h	✓	✓
5170S	Hydrogen	W21.80x1/14" Left	G 3/8" Left			380 m³/h	✓	✓
5190S	Dry Air	W21.80x1/14"	G 3/8"			100 m³/h	✓	✓

#### TECHNICAL SPECIFICATIONS

- **Helium:** TIG, MIG/MAG, shielding gas application, laser cutting.
- **Hydrogen:** Plasma welding, TIG, shielding gas application.
- **Dry Air:** Heating applications and plasma cutting.
- Compliance with EN ISO 2503 (TSE, APRAGAZ).
- Stainless steel filter to increase product life.
- Brass cover and body design.
- Colored design indicating gas type.
- Extended gas inlet stem for gas cylinder protection.
- Improved relief valve providing security.



5160



5170S

### OXYGEN, ACETYLENE, NITROGEN, ARGON AND CO<sub>2</sub> PRESSURE REGULATOR

Order No	Gas Type	Gas Inlet Connection	Gas Outlet Connection	Gas Inlet Pressure	Gas Outlet Pressure	Gas Outlet Flow
5901	Oxygen	G 3/4"	Ø 6 mm Hose Connection	0-230 bar	0-4 bar	5 m³/h
5911	Acetylene	W23x1/18"		0-25 bar	0-1.5 bar	1 m³/h
5930	Nitrogen	G 5/8" Out		0-230 bar	0-4 bar	5 m³/h
5940	Argon	G 5/8" Out		0-230 bar	-	0-12 l/min.
5950	CO <sub>2</sub>	W21.80x1/14"		0-230 bar	-	0-12 l/min.

#### TECHNICAL SPECIFICATIONS

- **Oxygen And Acetylene :** Cutting, tempering, welding and hard brazing.
- **Nitrogen:** TIG and protective gas application.
- **CO<sub>2</sub>:** TIG, MIG/MAG, protective gas application, laser cutting, plasma cutting.
- **Argon:** TIG, MIG/MAG, protective gas application, laser cutting, plasma cutting.
- Stainless steel filter to increase product life.
- Brass cover and body design.
- Suitable for using with machine compact design.
- Ø 50 mm outlet manometer.



5950

### ARGON, CO<sub>2</sub> AND PROPANE PRESSURE REGULATOR (SINGLE MANOMETER MODELS)

Order No	Gas Type	Gas Inlet Connection	Gas Outlet Connection	Gas Inlet Pressure	Gas Outlet Pressure	Gas Flow
5951	Argon	G 5/8" Out	Ø 6 mm Hose Connection	0-230 bar	-	0-12 l/min.
5941	CO <sub>2</sub>	W21.80x1/14"		0-25 bar	0-1.5 bar	1 m³/h
5920	Propane	W21.80x1/14" Left				

#### TECHNICAL SPECIFICATIONS

- **CO<sub>2</sub>:** TIG, MIG/MAG, protective gas application, plasma welding, plasma cutting.
- **Argon:** TIG, MIG/MAG, protective gas application, plasma welding, plasma cutting.
- **Propane:** Cutting, heating, welding and hard brazing.
- Stainless steel filter to increase product life
- Brass cover and body design.
- Suitable for using with machine compact design.
- Ø 50 mm outlet manometer.



5941

**ARGON, CO<sub>2</sub> AND PROPANE PRESSURE REGULATOR  
(WITHOUT MANOMETER)**

Order No	Gas Type	Gas Inlet Connection	Gas Outlet Connection	Gas Inlet Pressure	Gas Flow
5921	Propane	W21.80x1/14" Left	Ø 6 mm Hose Connection	0-25 bar	1 m <sup>3</sup> /h
5922*				0-230 bar	0-12 l/min.
5942	Argon	G 5/8" Out			
5952	CO <sub>2</sub>	W21.80x1/14"			

\* 5922: Double hose connection

**TECHNICAL SPECIFICATIONS**

- **CO<sub>2</sub>:** TIG, MIG/MAG, protective gas application, plasma welding, plasma cutting.
- **Argon:** TIG, MIG/MAG, protective gas application, plasma welding, plasma cutting.
- **Propane:** Cutting, heating, welding and hard brazing.
- Stainless steel filter to increase product life.
- Brass cover and body design.
- Suitable for use with machine.



5952

**PROPANE PRESSURE REGULATOR**

Order No	Gas Inlet Connection	Gas Outlet Connection	Exit	Gas Outlet Pressure	Gas Flow
5120	W21.80x1/14" Left	Ø 6 mm Hose Connection	With Manometer	0-1,5 bar	5 m <sup>3</sup> /h
5121			Without Manometer		5 m <sup>3</sup> /h
5122			Double Exit		2x2,5 m <sup>3</sup> /h

**TECHNICAL SPECIFICATIONS**

- Cutting, heating, welding and hard brazing.
- Compliance with EN ISO 2503 (TSE, APRAGAZ).
- Brass cover and body design.
- Gas type colored manometer.
- Ø 63 mm outlet manometer.
- Min. 5 m<sup>3</sup> /h flow



5121



5120

**OXYGEN AND NITROGEN HIGH PRESSURE REGULATOR**

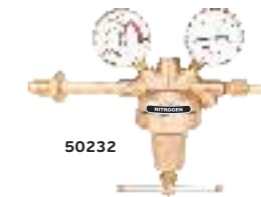
Order No	Gas Type	Gas Inlet Connection	Gas Outlet Connection	Gas Inlet Pressure	Gas Outlet Pressure	Protection	Shut off Valve
50201	Oxygen	G 3/4"	G 3/8"	0-230 bar	0-50 bar	-	✓
50202			G 3/8" Installation		0-100 bar	-	-
50203			G 3/8" Installation		0-150 bar	-	-
50230	Nitrogen	G 5/8" Out	G 3/8"		0-20 bar	-	✓
50231			G 3/8"		0-50 bar	-	-
50232			G 3/8" Installation		0-100 bar	-	-
50233			G 3/8" Installation		0-150 bar	-	-
50201S	Oxygen	G 3/4"	G 3/8"		0-50 bar	✓	✓
50202S			G 3/8" Installation		0-100 bar	✓	-
50203S			G 3/8" Installation		0-150 bar	✓	-
50230S	Nitrogen	G 5/8" Out	G 3/8"		0-20 bar	✓	✓
50231S			G 3/8"		0-50 bar	✓	-
50232S			G 3/8" Installation		0-100 bar	✓	-
50233S			G 3/8" Installation		0-150 bar	✓	-

**TECHNICAL SPECIFICATIONS**

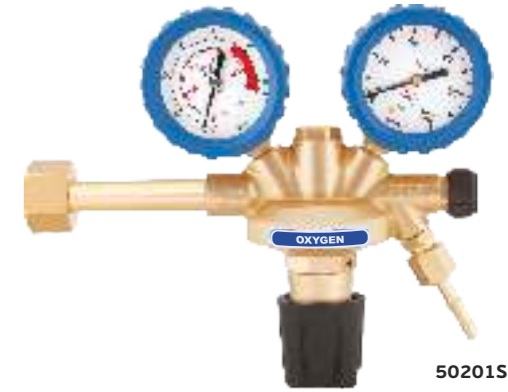
- Using for high pressure needed applications.
- Stainless steel filter to increase product life.
- High strength brass diaphragm.
- Brass cover and body design.
- Ø 63 mm manometer.



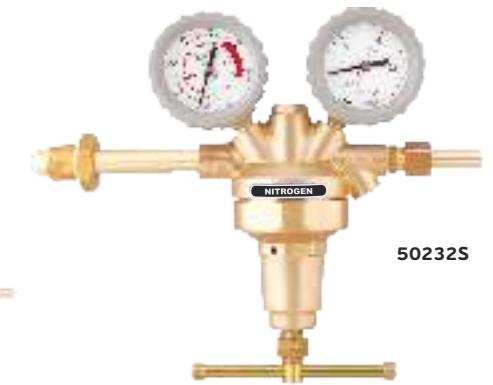
50202



50232



50201S



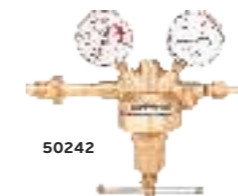
50232S

**ARGON AND CO<sub>2</sub> HIGH PRESSURE REGULATOR**

Order No	Gas Type	Gas Inlet Connection	Gas Outlet Connection	Gas Inlet Pressure	Gas Outlet Pressure	Protection	Shut off Valve
50241	Argon	G 5/8" Out	G 1/4"	0-230 bar	0-50 bar	-	✓
50242			G 3/8" Installation		0-100 bar	-	-
50243			G 3/8" Installation		0-150 bar	-	-
50251	CO <sub>2</sub>	W21.80x1/14"	G 1/4"		0-50 bar	-	✓
50252			G 3/8" Installation		0-100 bar	-	-
50253			G 3/8" Installation		0-150 bar	-	-
50241S	Argon	G 5/8" Out	G 1/4"		0-50 bar	✓	✓
50242S			G 3/8" Installation		0-100 bar	✓	-
50243S			G 3/8" Installation		0-150 bar	✓	-
50251S	CO <sub>2</sub>	W21.80x1/14"	G 1/4"		0-50 bar	✓	✓
50252S			G 3/8" Installation		0-100 bar	✓	-
50253S			G 3/8" Installation		0-150 bar	✓	-

**TECHNICAL SPECIFICATIONS**

- Using for high pressure needed applications.
- Stainless steel filter to increase product life.
- High strength brass diaphragm.
- Brass cover and body design.
- Ø 63 mm manometer.



50242



50252



50241S



50252S

### HELIUM, HYDROGEN AND DRY AIR HIGH PRESSURE REGULATOR

Order No	Gas Type	Gas Inlet Connection	Gas Outlet Connection	Gas Inlet Pressure	Gas Outlet Pressure	Protection	Shut off Valve
50261	Helium	W21.80 x 1/14"	G 3/8"	0-230 bar	0-50 bar	-	✓
50262			G 3/8" Installation		0-100 bar	-	-
50263			G 3/8" Installation		0-150 bar	-	-
50271	Hydrogen	W21.80 x 1/14" Left	G 3/8" Left		0-50 bar	-	✓
50272			G 3/8" Installation		0-100 bar	-	-
50273			G 3/8" Installation		0-150 bar	-	-
50291	Dry Air	W21.80 x 1/14"	G 3/8"		0-50 bar	-	✓
50292			G 3/8" Installation		0-100 bar	-	-
50293			G 3/8" Installation		0-150 bar	-	-
50261S	Helium	W21.80 x 1/14"	G 3/8"		0-50 bar	✓	✓
50262S			G 3/8" Installation		0-100 bar	✓	-
50263S			G 3/8" Installation		0-150 bar	✓	-
50271S	Hydrogen	W21.80 x 1/14" Left	G 3/8" Left		0-50 bar	✓	✓
50272S			G 3/8" Installation		0-100 bar	✓	-
50273S			G 3/8" Installation		0-150 bar	✓	-
50291S	Dry Air	W21.80 x 1/14"	G 3/8"		0-50 bar	✓	✓
50292S			G 3/8" Installation		0-100 bar	✓	-
50293S			G 3/8" Installation		0-150 bar	✓	-

#### TECHNICAL SPECIFICATIONS

- Using for high pressure needed applications.
- Stainless steel filter to increase product life.
- High strength brass diaphragm.
- Brass cover and body design.
- Ø 63 mm manometer.



50272S



50292S

### DOUBLE STAGE PRESSURE REGULATOR

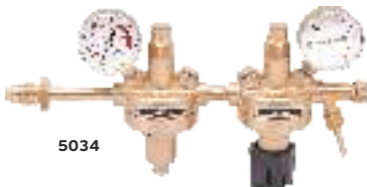
Order No	Gas Type	Gas Inlet Connection	Gas Outlet Connection	Gas Inlet Pressure	Gas Outlet Pressure	Protection	Shut off Valve
5030	Oxygen	G3/4"	G 3/8"	0-230 bar	0-1 bar	-	✓
5033	Nitrogen	G5/8" Out	G 3/8"			-	✓
5034	Argon	G5/8" Out	G 3/8"			-	✓
5035	CO <sub>2</sub>	W21.80 x 1/14"	G 3/8"			-	✓
5038	Natural Gas	W21.80 x 1/14" Left	G 3/8" Left			-	✓
5030S	Oxygen	G3/4"	G 3/8"			✓	✓
5033S	Nitrogen	G5/8" Out	G 3/8"			✓	✓
5034S	Argon	G5/8" Out	G 3/8"			✓	✓
5035S	CO <sub>2</sub>	W21.80 x 1/14"	G 3/8"			✓	✓
5038S	Natural Gas	W21.80 x 1/14" Left	G 3/8" Left			✓	✓

#### TECHNICAL SPECIFICATIONS

- Using for high pressure needed applications.
- Stainless steel filter to increase product life
- Brass lid and body desing
- Ø 63 mm Manometer



5030



5034



5030S



5034S

### CO<sub>2</sub> BEVERAGE REGULATOR

Order No	Gas Inlet Connection	Gas Outlet Connection	Hose Fitting	Gas Inlet Pressure	Gas Outlet Pressure
5070	W21,80x1/14"	Spherical Valve	Ø6 mm	0-200 bar	0-4 bar

#### TECHNICAL SPECIFICATIONS

- Transferred the CO<sub>2</sub> gas in to the beverage cylinder in certain quantities and served to your drink for the service of alcoholic and non-alcoholic beverages.
- Galvanized nickel plating desing.
- Manual relief valve system for the evacuation of accumulated gas in the product.
- Ø 50 mm manometer.
- Ball valve outlet system.



### CO<sub>2</sub> BEVERAGE REGULATOR (WITH DOUBLE REGULATOR)

Order No	Gas Inlet Connection	Gas Outlet Connection	Hose Fitting	Gas Inlet Pressure	Gas Outlet Pressure
5072	W21,80x1/14"	Spherical Valve	Ø6 mm	0-200 bar	0-4 bar

#### TECHNICAL SPECIFICATIONS

- Transferred the CO<sub>2</sub> gas in to the beverage cylinder in certain quantities and served to your drink for the service of alcoholic and non-alcoholic beverages.
- Galvanized nickel plating desing.
- Manual relief valve system for the evacuation of accumulated gas in the product.
- Double stage.
- Ø 50 mm manometer.
- Ball valve outlet system.



### AQUARIUM REGULATOR

Order No	Gas Inlet Connection	Gas Outlet Connection	Hose Fitting	Gas Inlet Pressure	Gas Outlet Pressure
5950 AQ	W21,80x1/14"	Solenoid Valve	Ø6 mm	0-200 bar	0-12 l/min

#### TECHNICAL SPECIFICATIONS

- Suitable for using on plant and hobby aquarium.
- Stainless steel filter to increase product life.
- Brass cover and body design.
- Flow accuracy.
- Ø 50 mm manometer.
- Solenoid valve outlet system.



### HELIUM PRESSURE REGULATOR

Order No	Gas Inlet Connection	Gas Outlet Connection
5680	G 5/8" Out	Baloon Aparate

#### TECHNICAL SPECIFICATIONS

- Baloon blowing flexible outlet stem.
- Outlet pressure fixed at 4 bar.
- Left entry connection.
- Suitable for using with helium and mixed helium gases.



### GAS ECONOMIZER

Order No	Gas Type	Gas Inlet Connection	Gas Outlet Connection	Gas Inlet Pressure	Gas Outlet Pressure
GTC-100	Argon - CO <sub>2</sub> Mixed Gas	G 1/4" In	G 1/4" Out	4 bar	1,1 - 1,3 bar

#### Product Description

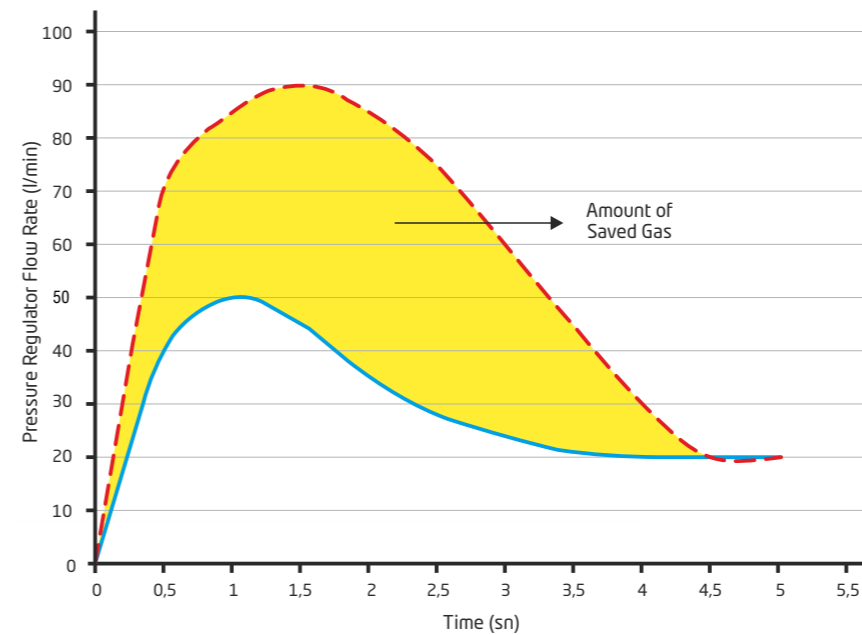
MIG/MAG and TIG welding application, when welding torch is triggered off, gas flow to outside is closed. But due to continues gas supply, gas pressure is increased on hose. Then the welding is started again, increased pressure causes, extra gas consumption, porous welding area and less penetration of welding material. Using gas economizer, could and avoid this kind of situation.

#### Usage of Product

Product must be assembled to outlet of CO<sub>2</sub> / Argon, Mixed gas regulators.

#### When you use GTC-100

- Up to %50 less gas consumption.
- When the pressure inside the tube drops, the welding operator must adjust the flow rate again. GTC-100 provides a constant flow and second setting of flow is not required until the gas inside the cylinder is empty. Saves time and increase efficiency.
- Increase welding quality.



— Gas Saving Regulator  
- - Pressure Regulator

This chart shows the instantaneous flow rate generated by the Pressure Reducer and the instantaneous flow rate generated using the GTC 100, which shows the amount of gas that can be saved. The upper curve shows the gas consumption when the gas saving device is not used and the lower curve shows the gas consumption when the gas saving device is used. The area between the two curves expresses the amount of gas saved.

PRESSURE REGULATOR ACCESSORY TABLE						
EXPLANATION	OXYGEN	ACETYLENE	ARGON / CO <sub>2</sub>	NATURAL GAS	PROPANE	NITROGEN
FLASHBACK ARRESTORS	1030	1130	-	1130	1130	1030
	IB0905-Q	IB0906-Q		IB0906-Q	1231	-
	IB0183	IB0181		IB0181	IB0906-Q	
	IB0366	IB0367	-	IB0367	IB0181	
	IB0544	IB0543		IB0543	IB0367	-
	IB0203	IB0204		IB0204	IB0543	
MANOMETER	51315	51140	59315	7200116	51202	53315
	59016	51102	59032	7200041	-	53006
TEST FLOWMETER	-	-	FM25	-	-	-
HEATER	IB201	-	Y510	-	-	IB201
	IB202		IB201/IB202	-	-	IB202
GAZ SAVING DEVICE	-	-	GC-100	-	-	-
WELDING GLASSES	1014	1014	1014	1014	1014	1014
HOSE	H0831	H0831	-	H0831	H0831	-
	H0601	H0611	-	H0611	H0620	-
	H0801	H0811	-	H0811	H0820	-
PROTECTION	Y532	Y533	Y534	Y533	Y512	Y533
	Y542	Y543	Y544	Y543	-	Y543



FLASHBACK

ARRESTORS

**FLASHBACK ARRESTOR**

Flash back is the combustion of a flame directly to the gas source such as gas cylinder, tank, hose or the manifold during oxy-fuel welding and cutting operations.

Flashback arrestor is a special gas safety device which stops the flame by blocking the gas flow or stops reverse flow of gas back up into the equipment or supply line. It prevents the user and equipment from damage or explosions.

**A flash back occurs when there are reasons that are listed as follows;**

- Damage or misusing of torch.
- As a result of using higher working pressure mistakenly, high pressure oxygen gas passes into the low pressure fuel gas tank.
- In case that incompatible equipments was connected to each other.
- When the oxygen cylinder is empty, fuel gas feeds back the regulator and gas cylinder pipe.
- Untrained and inexperienced users.
- Attempting to make equipment connections without the proper key.
- Using different pressures and different gases which is not suitable for the device.
- Using the device below -20 ° C and above + 70 ° C

**PARTS OF A FLASHBACK ARRESTOR****Thermal valve:**

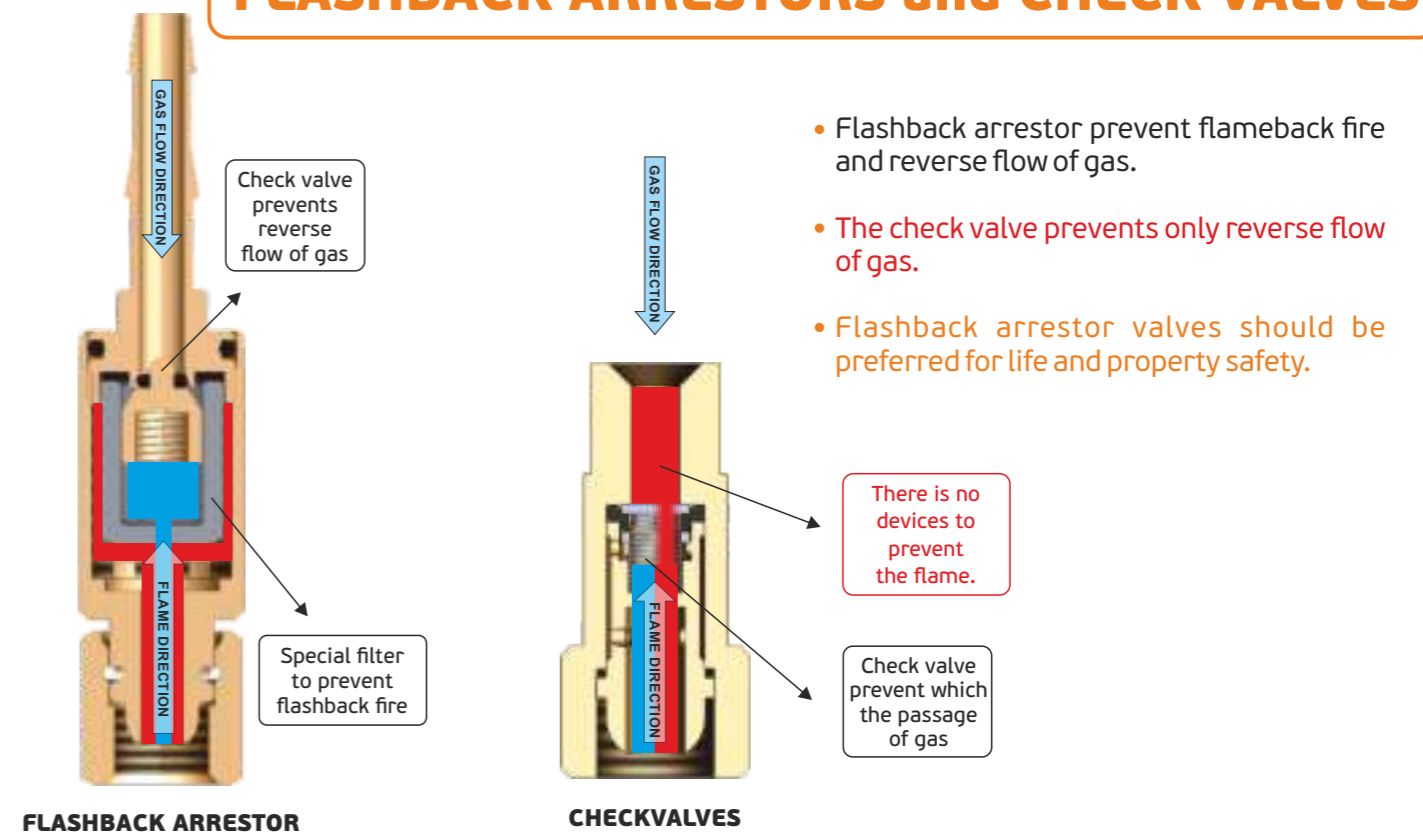
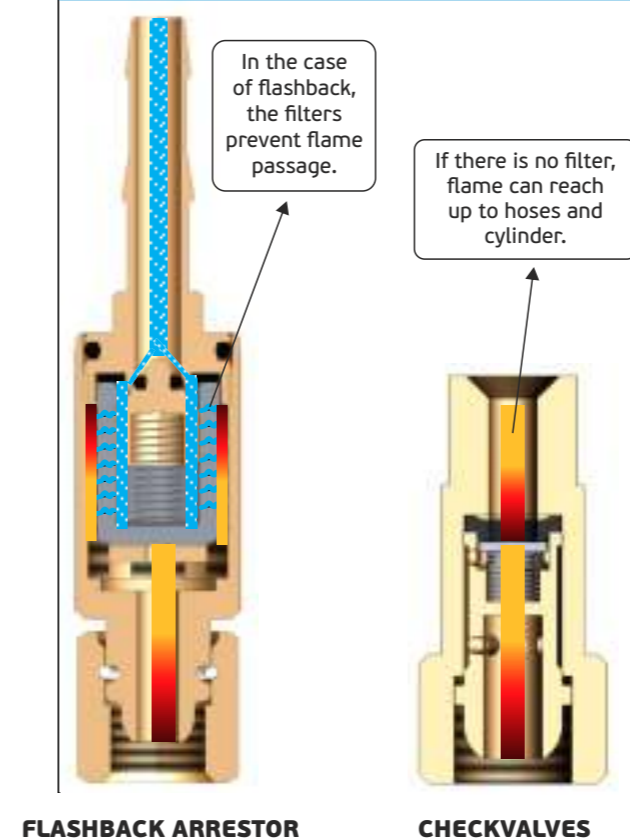
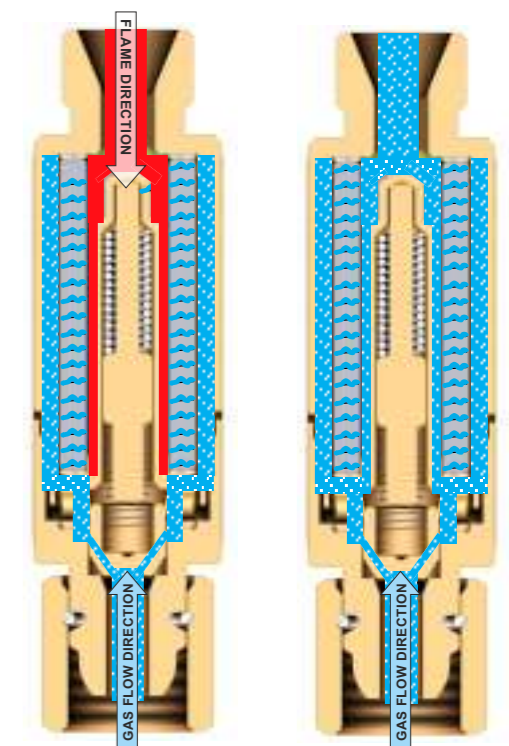
Thermal Valve is used to eliminate heat build-up in a closed loop by-pass system when liquid is being returned to the pump inlet. Thermal Valves can only be installed when there is a pressurized pump inlet. During recirculation of by-pass liquid, the thermal valve will detect temperature rises in the liquid. If the set temperature is reached, a bleed port dumps a portion of the over-heated fluid.

**FA Sintered Stainless Filter:**

Prevent reverse gas flow.

**NV Check Valve ;**

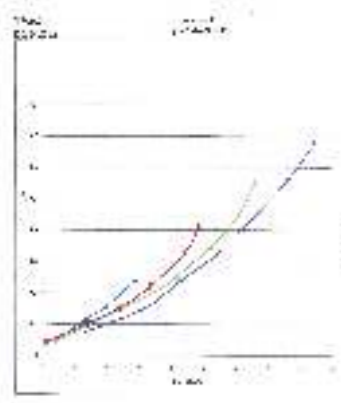
Prevent reverse gas flow.

**FLASHBACK ARRESTORS and CHECK VALVES****FLASHBACK OF THE FLAME****FLASHBACK ARRESTOR FOR PRESSURE REGULATOR**

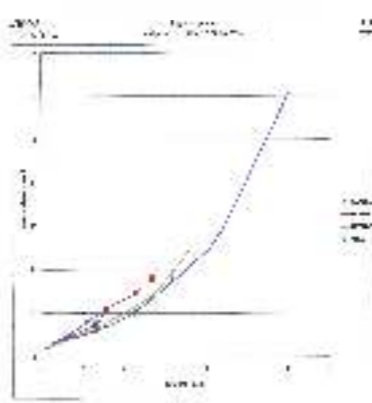
## BUSINESS and PERFORMANCE DATA

The highest operating pressure gas flow characteristics are given in the table below.

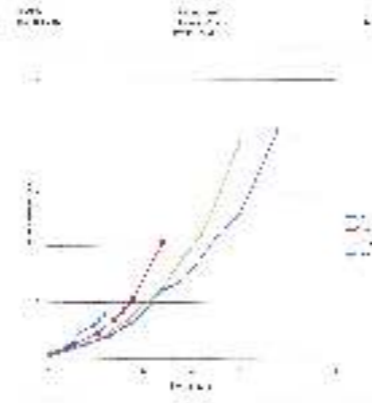
1030 Acetylene 1,5 bar



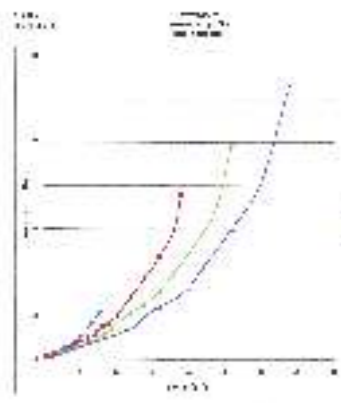
1018 ve 1118 Acetylene 1,5 bar



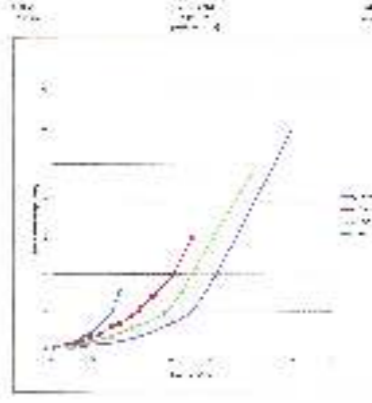
1018 ve 1118 Hydrogen 3,5 bar



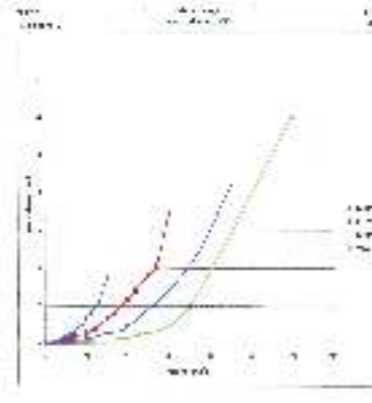
1018 ve 1118 Propane  
ve Natural Gas 5 bar



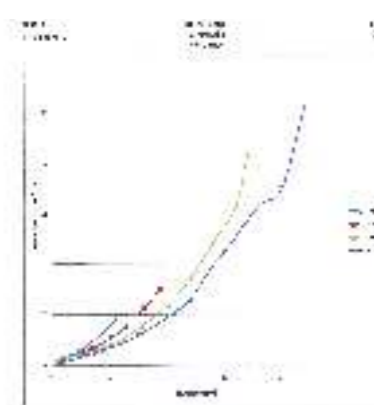
1028 ve 11218 Oxygen 20 bar



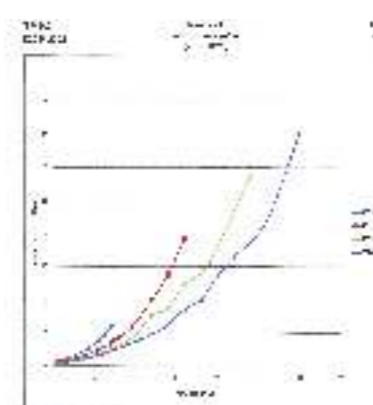
1030 Oxygen 20 bar



1130 Hydrogen 3,5 bar



1130 ve 1231 Propane  
ve Natural Gas 5 bar



## PRESSURE REDUCING FLAME SAFETY VALVE

Order No	Gas Type	Use of Pressure	Flow	Gas Inlet Connection	Gas Outlet Connection
1030	Oxygen	20 bar	50 m³/h	G 3/8"	G 3/8"
1030-1				G 1/2" In	G 1/2" Out
1130	Acetylene	1,5 bar	9 m³/h	G 3/8" Left	G 3/8" Left
1130-1				G 1/2" In	G 1/2" Out

## TECHNICAL SPECIALITIES

- Check valve, Flashback Arrestor, Thermic valve
- The spring in the flashback arrestor does not allow the reverse flow of gas by exerting continuous gas pressure. So, it prevents mixing gases in the hose and gaining an explosive property of gases at low and high pressures.



1030

## FLASHBACK ARRESTORS FOR REGULATORS

Order No	Gas Type	Use of Pressure	Flow	Gas Inlet Connection	Gas Outlet Connection
1231	Propane	5 bar	6,9 m³/h	G 3/8" Left	G 3/8" Left

## TECHNICAL SPECIALITIES

- Check valve, Flashback Arrestor safety device, Thermal valve
- The spring in the flashback arrestor does not allow the reverse flow of gas by exerting continuous gas pressure. So, it prevents mixing gases in the hose and gaining an explosive property of gases at low and high pressures.



**PRESSURE REDUCING FLAME SAFETY VALVE**

Order No	Gas Type	Use of Pressure	Flow	Gas Inlet Connection	Gas Outlet Connection
1118	Acetylene	1,5 bar	7 m <sup>3</sup> /h	6,3 mm	G 3/8" Left
	Propane	5 bar	5,3 m <sup>3</sup> /h		G 3/8" Left
1128	Oxygen	20 bar	35 m <sup>3</sup> /h		G 1/4"

**TECHNICAL SPECIALITIES**

- Check valve, Flashback Arrestor safety device
- The spring in the flashback arrestor does not allow the reverse flow of gas by exerting continuous gas pressure. So, it prevents mixing gases in the hose and gaining an explosive property of gases at low and high pressures. The gas flow pressure lifts the valve spring on the valve to open the valve and allow the gas to flow towards the cutting torch. The special flame-trap filter by made of sintered chrome-nickel in the safety valve keeps flaming backlash from the cutting torch.

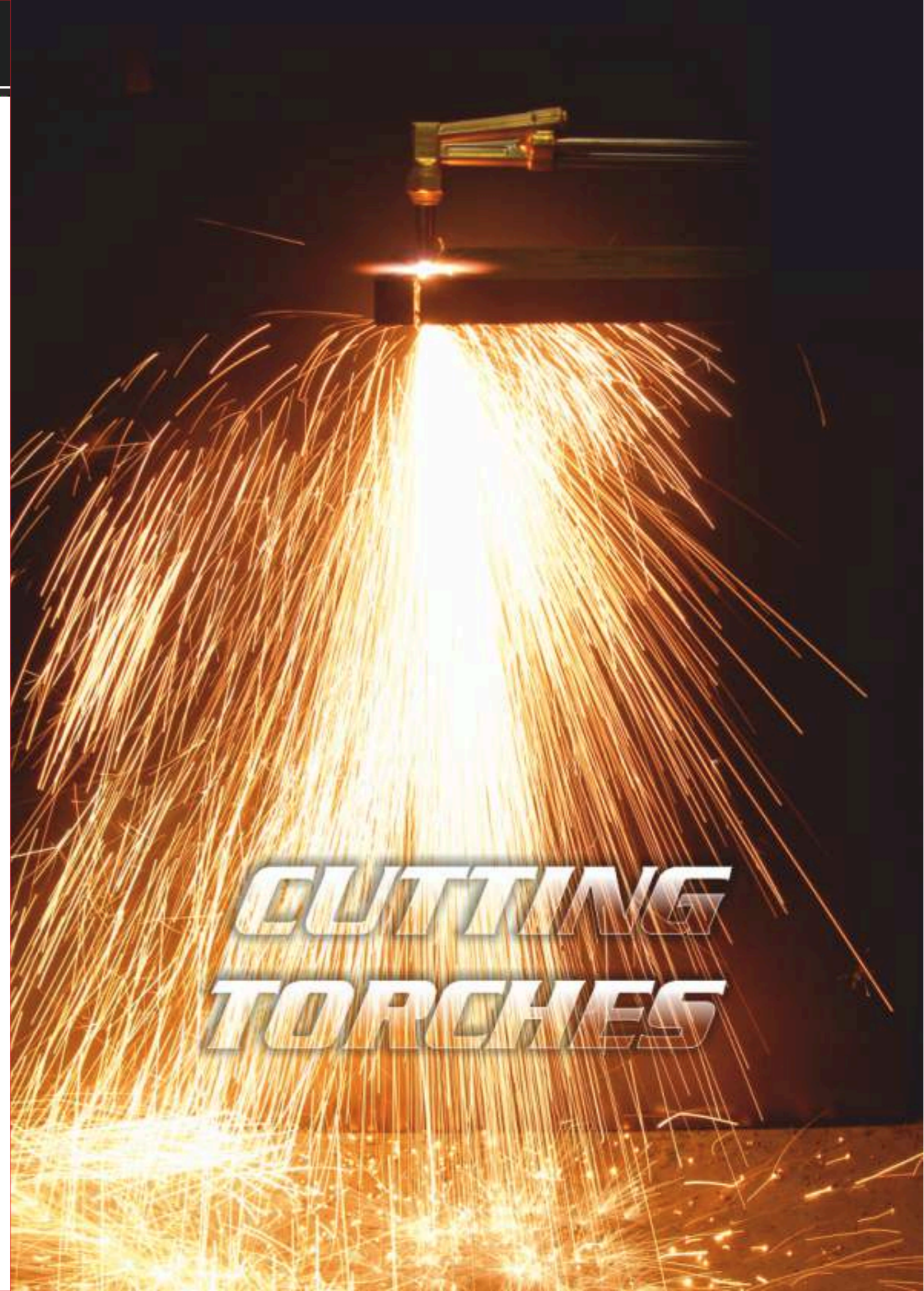


**FOR HOSES FLAME SAFETY VALVE**

Order No	Gas Type	Use of Pressure	Flow	Gas Inlet Connection	Gas Outlet Connection
1018	Acetylene	1,5 bar	7 m <sup>3</sup> /h	6,3 mm	6,3 mm
	Propane	5 bar	5,3 m <sup>3</sup> /h		
1028	Oxygen	20 bar	35 m <sup>3</sup> /h		

**TECHNICAL SPECIALITIES**

- Check valve, Flashback Arrestor safety device
- The spring in the flashback arrestor does not allow the reverse flow of gas by exerting continuous gas pressure. So, it prevents mixing gases in the hose and gaining an explosive property of gases at low and high pressures. The gas flow pressure lifts the valve spring on the valve to open the valve and allow the gas to flow towards the cutting torch. For hoses flame safety valve are used when Flame Safety Valves can not be connected to the cutting torch.



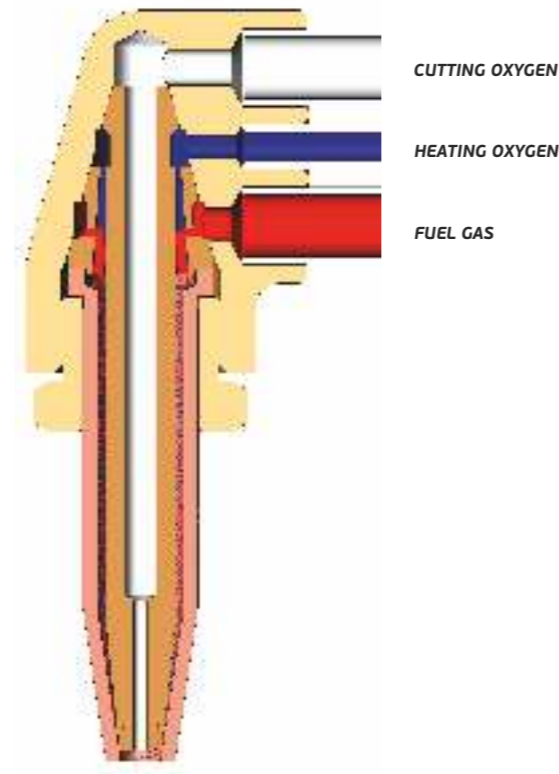
## NOZZLE MIX TYPE CUTTING TORCH (3 PIPES)

### APPLICATIONS

- In nozzle mix type cutting torches, the gas which creates the flame for the cutting operation, is mixed inside of the nozzle, while in injector cutting torches, the gas is mixed inside of the torch body. As a result of that, these torches are safer against flashback of the flame.
- Gases are moving separately from 3 tubes to the nozzle.
- Thanks to the design of the torch, instead of replacing the torch to use different gas types, you may only change the nozzle according to gas type.

### GENERAL SPECIFICATIONS

- Conforming to ISO 5172 standard.
- Maximum safety.
- Cutting capacity up to 500 mm.
- Precisely adjustable valves.
- Durable stainless steel pipes.
- Cutting oxygen valve locking system.
- Suitable for using with different gases.
- Different head angles and lengths.



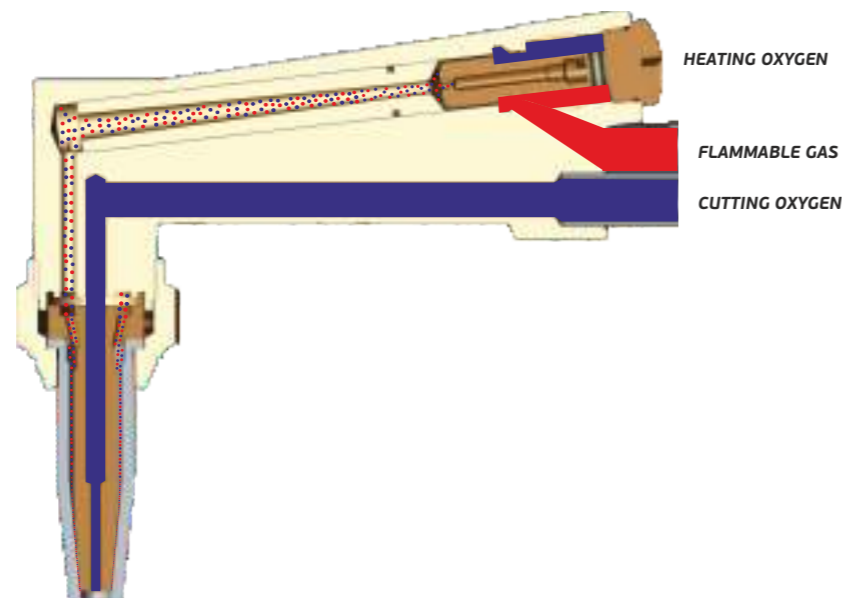
## HEAD MIXED TYPE CUTTING TORCHES

### APPLICATIONS

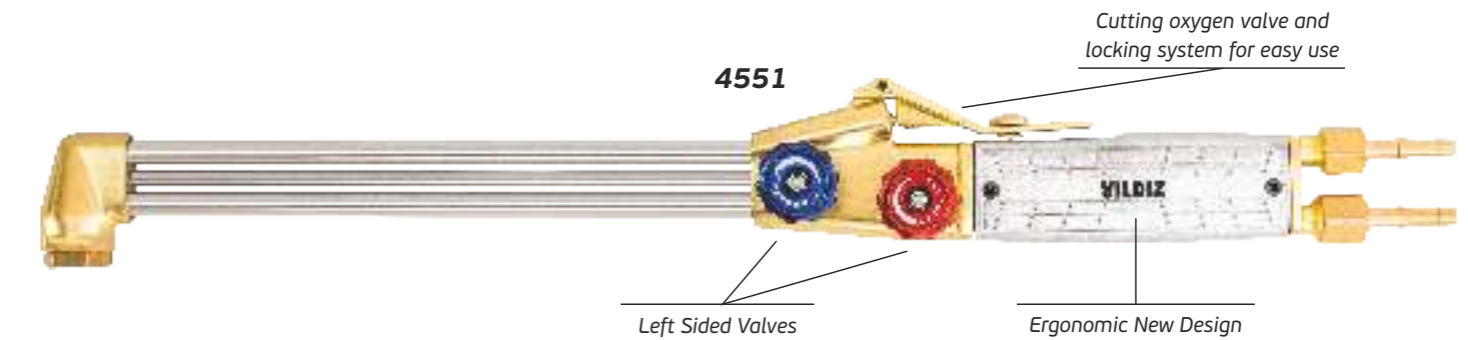
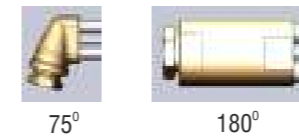
- In head mix type cutting torches, the gas which creates the flame for the cutting operation, is mixed inside of the head of the torch in which the nozzle is connected.
- There are different types of torches for each gases.
- There are Acetylene, Propane and Natural gas varieties.

### GENERAL SPECIFICATIONS

- Conforming to ISO 5172 standard.
- Maximum safety.
- Precise cutting up to 300 mm.
- Special design for different gas types.
- Durable Stainless steel pipes.
- Constant pre-heating flame during cutting process.
- Gas valves for precise adjustments.
- Different lengths.



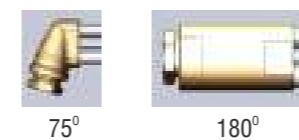
NOZZLE MIX TYPE CUTTING TORCH			
Order No	Cutting Capacity	Length	Head Angle
4551	0-500 mm	500 mm	90°
45907	Cutting attachment (80 mm - 800 mm circular cutting)		



### TECHNICAL SPECIFICATIONS

- Oxygen-Fuel gas cutting operations.
- Left sided valves, cutting oxygen valve on the top, ergonomic handle.
- Special production at 75, 90 and 180 degree head angles.
- Conforms to EN ISO 5172.
- Max safety.
- Cutting capacity up to 500 mm.
- Precision adjustable valves.
- Stainless steel pipe providing high durability.
- Cutting oxygen valve locking system.
- Operability according to different gas types.
- Different head angles and lengths.

NOZZLE MIX TYPE CUTTING TORCH			
Order No	Cutting Capacity	Length	Head Angle
4512	0-500 mm	460 mm	90°
4512-750		750 mm	
4512-1000		1000 mm	
4512-1500		1500 mm	
45907	Cutting attachment (80 mm - 800 mm circular cutting)		



### TECHNICAL SPECIFICATIONS

- Oxygen-Fuel gas cutting operations.
- Left sided valves, top trigger model, ergonomic handle.
- Special production at 75, 90 and 180 degree head angles.
- Conforms to EN ISO 5172.
- Max safety.
- Cutting capacity up to 500 mm.
- Precision adjustable valves.
- Stainless steel pipe providing high durability.
- Cutting oxygen valve locking system.
- Operability according to different gas types.
- Different head angles and lengths.

**NOZZLE MIX TYPE CUTTING TORCH**

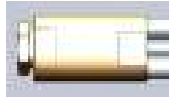
Order No	Cutting Capacity	Length	Head Angle
4511	0-500 mm	460 mm	90°
4511-750		750 mm	
4511-1000		1000 mm	
4511-1500		1500 mm	
45907	Cutting attachment (80 mm - 800 mm circular cutting)		

**TECHNICAL SPECIFICATIONS**

- Oxygen - Fuel gas cutting operations.
- Cutting oxygen valve at the bottom, ergonomic handle.
- Gas valves at the bottom.
- Special production at 75, 90 and 180 degree head angles.
- Conforms to EN ISO 5172.
- Max safety.
- Cutting capacity up to 500 mm.
- Precision adjustable valves.
- Stainless steel pipe providing high durability.
- Cutting oxygen valve locking system.
- Operability according to different gas types.
- Different head angles and lengths.



75°



180°



**4511**



**4511-750**

**NOZZLE MIX TYPE CUTTING TORCH**

Order No	Cutting Capacity	Length	Head Angle
<b>4541</b>	0-300 mm	460 mm	90°
<b>45907</b>	Cutting attachment (80 mm - 800 mm circular cutting)		

**TECHNICAL SPECIFICATIONS**

- Oxygen - Fuel gas cutting operations.
- Cutting oxygen valve at the bottom, ergonomic handle.
- Gas valves at the bottom
- Conforms to EN ISO 5172.
- Max safety.
- Cutting capacity up to 500 mm.
- Precision adjustable valves.
- Stainless steel pipe providing high durability.
- Cutting oxygen valve locking system.
- Operability according to different gas types.
- Different lengths.



**4541**

**NOZZLE MIX TYPE CUTTING TORCH NOZZLE (OXYGEN - ACETYLENE)**

Order No	Used in	Cutting Thickness	Oxygen Pressure	Acetylene Pressure
<b>4530 A</b>	4435 - 4541 - 4551	3-6 mm	2,5-3,5 bar	0.35 bar
<b>4531 A</b>	4511 - 4512	5-12 mm	3-4 bar	0.35 bar
<b>4532 A</b>	4511 - 750	10-75 mm	4-5 bar	0.4 bar
<b>4533 A</b>	4512 - 750	70-100 mm	4,5-5,5 bar	0.4 bar
<b>4534 A</b>	4511 - 1000	90-150 mm	5-6 bar	0.4 bar
<b>4535 A</b>	4512 - 1000	140-200 mm	5-6,5 bar	0.4 bar
<b>4536 A</b>	4511 - 1500	190-300 mm	6,5-7,5 bar	0.45 bar
<b>4537 A</b>	4512 - 1500	300-500 mm	6,5-7,5 bar	0.45 bar



**4530 A**

**NOZZLE MIX TYPE CUTTING TORCH NOZZLE  
(OXYGEN - PROPANE / NATURAL GAS)**

Order No	Used in	Cutting Thickness	Oxygen Pressure	Propane Pressure	Natural Gas Pressure
<b>4530 P</b>	4435 - 4541 - 4551	3-6 mm	2,5-3,5 bar	0.3 bar	0.3-1 bar
<b>4531 P</b>	4511 - 4512	5-12 mm	3-4 bar	0.3 bar	
<b>4532 P</b>	4511 - 750	10-75 mm	4-5 bar	0.4 bar	
<b>4533 P</b>	4512 - 750	70-100 mm	4,5-5,5 bar	0.4 bar	
<b>4534 P</b>	4511 - 1000	90-150 mm	5-6 bar	0.7 bar	
<b>4535 P</b>	4512 - 1000	140-200 mm	5-6,5 bar	0.7 bar	
<b>4536 P</b>	4511 - 1500	190-300 mm	6,5-7,5 bar	0.7 bar	
<b>4537 P</b>	4512 - 1500	300-500 mm	6,5-7,5 bar	0.8 bar	



**4530 P**



HEAD MIXED TYPE CUTTING TORCHES				
Order No	Gas Type	Cutting Thickness	Length	Head Angle
4543 A	Oxygen - Acetylene	0-300 mm	460 mm	90°
4543 P	Oxygen - Propane		460 mm	
4543 A-750	Oxygen - Acetylene		750 mm	
4543 P-750	Oxygen - Propane		750 mm	
4543 A-1000	Oxygen - Acetylene		1000 mm	
4543 P-1000	Oxygen - Propane		1000 mm	
45908	Cutting attachment (80 mm - 800 mm circular cutting)			

#### TECHNICAL SPECIFICATIONS

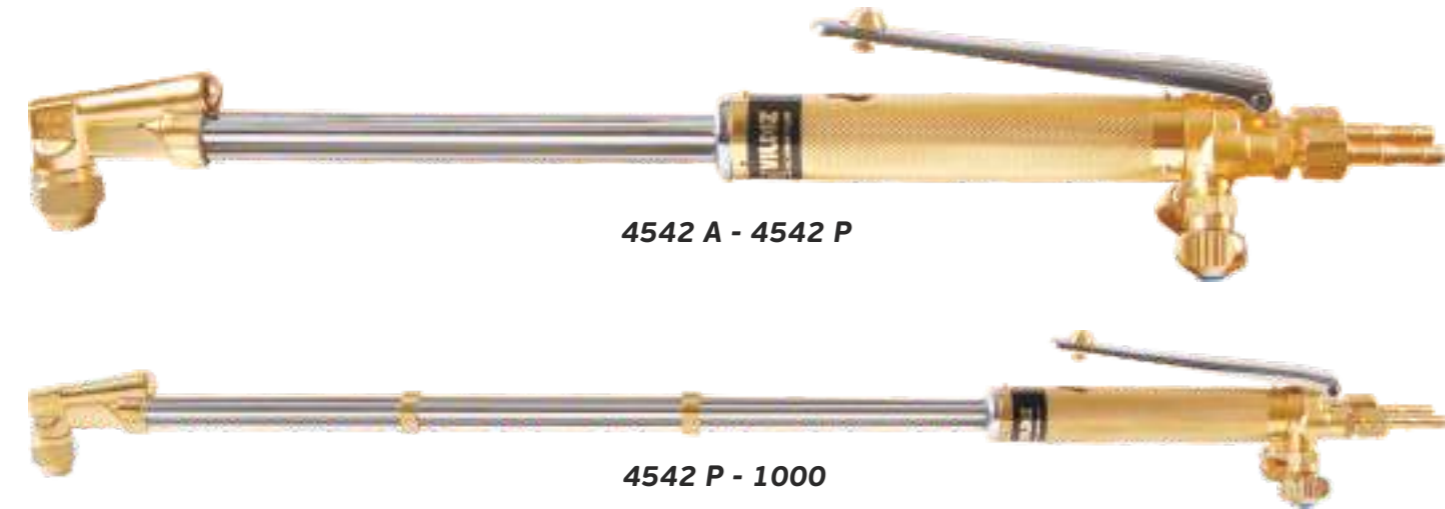
- Oxygen - Fuel gas cutting operations.
- Gas valves at the bottom
- Cutting oxygen valve at the bottom, ergonomic handle.
- Cutting capacity up to 300 mm.
- Conforms to EN ISO 5172.
- Head mixed type.
- Precision adjustable valves.
- Stainless steel pipe providing high durability.
- Cutting oxygen valve locking system.
- Operability according to different gas types.
- Different lengths.



HEAD MIXED TYPE CUTTING TORCHES				
Order No	Gas Type	Cutting Thickness	Length	Head Angle
4542 A	Oxygen - Acetylene	0-250 mm	460 mm	90°
4542 P	Oxygen - Propane		460 mm	
4542 A-750	Oxygen - Acetylene		750 mm	
4542 P-750	Oxygen - Propane		750 mm	
4542 A-1000	Oxygen - Acetylene		1000 mm	
4542 P-1000	Oxygen - Propane		1000 mm	
45908	Cutting attachment (80 mm - 800 mm circular cutting)			

#### TECHNICAL SPECIFICATIONS

- Oxygen - Fuel gas cutting operations.
- Gas valves at the bottom
- Cutting oxygen valve at the bottom, ergonomic handle.
- Cutting capacity up to 300 mm.
- Conforms to EN ISO 5172.
- Head mixed type.
- Precision adjustable valves.
- Stainless steel pipe providing high durability.
- Cutting oxygen valve locking system.
- Operability according to different gas types.
- Different lengths.



HEAD MIXED TYPE CUTTING TORCHES NOZZLE (OXYGEN - ACETYLENE)				
Order No	Used in	Cutting Thickness	Oxygen Pressure	Acetylene Pressure
45400 A	4542 A 4543 A 4542 A - 750 4543 A - 750 4542 A - 1000 4543 A - 1000	0-5 mm	2,5-3,5 bar	0,3 bar
45401 A		5-10 mm	3-4 bar	0,3 bar
45402 A		10-15 mm	4-5 bar	0,4 bar
45403 A		15-25 mm	4,5-5,5 bar	0,4 bar
45404 A		25-50 mm	4-6 bar	0,5 bar
45405 A		50-100 mm	5-6,5 bar	0,5 bar
45406 A		100-175 mm	6,5-7,5 bar	0,5 bar
45407 A		175-250 mm	6,5-7,5 bar	0,5 bar
45408 A		250-300 mm	7-8 bar	0,5 bar



45400 A

HEAD MIXED TYPE CUTTING TORCHES NOZZLE (OXYGEN - PROPANE)				
Order No	Used in	Cutting Thickness	Oxygen Pressure	Propane Pressure
45400 NP	4542 P 4543 P 4542 P - 750 4543 P - 750 4542 P - 1000 4543 P - 1000	1-5 mm	1-2 bar	0,3 bar
45401 NP		5-10 mm	1,5-2 bar	0,3 bar
45402 NP		10-15mm	2-3 bar	0,4 bar
45403 NP		15-25 mm	2,3-3,5 bar	0,4 bar
45404 NP		25-50 mm	3-4,8 bar	0,5 bar
45405 NP		50-75 mm	4,1-5,5 bar	0,5 bar
45406 NP		75-150 mm	4,8-6,1 bar	0,7 bar
45407 NP		150-200 mm	5-6,5 bar	0,7 bar
45408 NP		200-300 mm	6,5-7,2 bar	0,7 bar



45400 NP

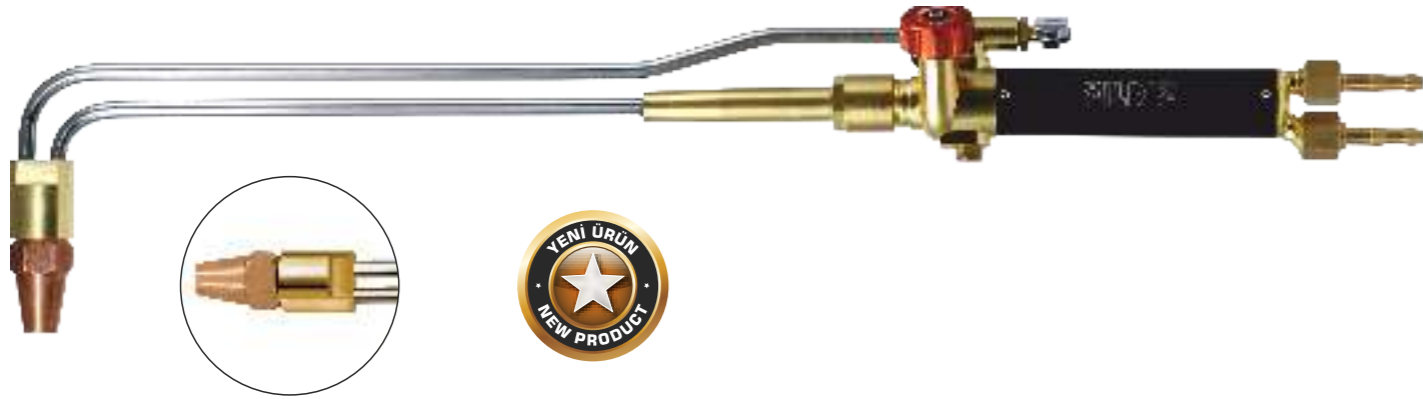


**HEAVY DUTY CUTTING TORCH**

Order No	Cutting Thickness	Length	Head Angle
4571	2-300 mm	500 mm	90°
4571-750		750 mm	
4571-1000		1000 mm	

**TECHNICAL SPECIFICATIONS**

- Using in heavy industries like ship building industry.
- Conforms to EN ISO 5172.
- Special production for 180° head and different lengths.
- Precision adjustable valves.
- Cutting capacity up to 300 mm.
- Head mixed type.
- Stainless steel pipe providing high durability.

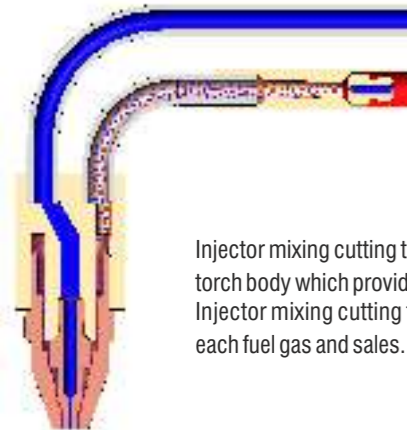


**HEAVY DUTY CUTTING TORCH NOZZLE (OXYGEN - PROPANE - NATURAL GAS)**

Order No	Used in	Cutting Thickness	Oxygen Pressure	Propane Pressure	Natural Gas Pressure
45701	4571	2-20 mm	4 bar	0,3 bar	0,3 - 1 bar
45702		20-50 mm	4,5 bar	0,4 bar	
45703		50-100 mm	5 bar	0,7 bar	
45704		100-200 mm	6 bar	0,7 bar	
45705		200-300 mm	7 bar	0,8 bar	
45706		2-100 mm	Copper Outer Case		
45707		100-300 mm			



45706



Injector mixing cutting torches creates the gas mixture in the torch body which provide the heating flame. Injector mixing cutting torches are produced separately for each fuel gas and sales.



45701

45702

45703

45704

45705

**CUTTING TORCH**

Order No	Cutting Thickness	Height	Head Angle
4508	3-300 mm	500 mm	90°

**TECHNICAL SPECIFICATIONS**

- Nozzle mix cutting equipment.
- Suitable for G1 nozzle.
- Suitable EN ISO 5172 standard.
- Up to 300 mm cutting capacity.
- Stainless steel and durable trigger.
- **Inlet Connections** : Oxygen: M16 x 1,5
- **Flammable Gas** : M16 x 1,5 Left
- **Hose Connection** : Ø 10 mm



**G1 NOZZLE TECHNICAL SPECIFICATIONS  
(OXYGEN - ACETYLENE)**

Order No	Used in	Cutting Capacity	Oxygen Pressure	Acetylene Pressure
45600A-G1	4508	3-10 mm	3-5 bar	0,35 bar
45601A-G1		10-25 mm	3-5 bar	0,35 bar
45602A-G1		25-50 mm	3-5 bar	0,4 bar
45603A-G1		50-80 mm	4-6 bar	0,4 bar
45604A-G1		80-120 mm	5-7 bar	0,4 bar
45605A-G1		120-200 mm	6-8 bar	0,45 bar
45606A-G1		200-300 mm	6-10 bar	0,45 bar



45600A-G1



45600P-G1

**G1 NOZZLE TECHNICAL SPECIFICATIONS  
(OXYGEN - PROPANE)**

Order No	Used in	Cutting Capacity	Oxygen Pressure	Propane Pressure
45600P-G1	4508	3-10 mm	3-5 bar	0,3 bar
45601P-G1		10-25 mm	3-5 bar	0,3 bar
45602P-G1		25-50 mm	3-5 bar	0,4 bar
45603P-G1		50-80 mm	4-6 bar	0,4 bar
45604P-G1		80-120 mm	5-7 bar	0,7 bar
45605P-G1		120-200 mm	6-8 bar	0,7 bar
45606P-G1		200-300 mm	6-10 bar	0,8 bar

CUTTING ACCESSORY - SUPPLIES CODE TABLE									
EXPLANATION	NOZZLE MIX CUTTING TORCH (4511-4512-4541-4551-4430)			HEAT MIX CUTTING TORCH (4542-4543)			INJECTOR MIX CUTTING TORCH (4400 SERIES)		
	OXYGEN	ACETYLENE	PROPANE NATURAL GAS	OXYGEN	ACETYLENE	PROPANE NATURAL GAS	OXYGEN	ACETYLENE	PROPANE NATURAL GAS
FLASHBACK ARRESTORS	1128	1118	1128	1118	1128	1118	1128	1118	1118
	IB901-Q	IB0902-Q		IB901-Q	IB0902-Q		IB901-Q	IB0902-Q	
	IB0903-Q	IB0904-Q		IB0903-Q	IB0904-Q		IB0903-Q	IB0904-Q	
	IB0199	IB0533		IB0199	IB0533		IB0199	IB0533	
NOZZLE SERIES	OKS OKS PRO	AST NAT	4530 A Serisi 4530 P Series	OKS OKS PRO	AST NAT	4530 A Serisi 4530 P Series	OKS OKS PRO	AST NAT	4530 A Serisi 4530 P Series
GAS ECONOMIZER		1950 1951 1952							
WELDING GLASSES		1014							
LIHGTER		1012							
FLINT		10121							
HOSE	H0831			H0831			H0831		
	H0601	H0611	H0620	H0601	H0611	H0620	H0601	H0611	H0620
	H0801	H0811	H0820	H0801	H0811	H0820	H0801	H0811	H0820



### SHANK

Order No	Welding Arm Connection Size	Oxygen Connection	Fuel Gas Connection	Hose Nipple
2601	Ø 16 mm	G 1/4"	G 3/8" Left	Ø 6,3 mm

#### TECHNICAL SPECIFICATIONS

- Suitable for cutting, welding, heating and brazing with right equipments.
- Conforms to EN ISO 5172.
- The ability to open and close more than 20.000 with improved valve systems.
- Easy connection with suitable equipments.
- Light handle designed for stability and gas tightness.
- Can be used with flashback arrestors.
- Compatible design with using all fuel gases.



### CUTTING TORCH

Order No	Specifications
4410 P	Cutting Torch, Oxygen, Propane
4410 M	Cutting Torch, Oxygen, Natural Gas
4410 A	Cutting Torch, Oxygen, Acetylene

#### TECHNICAL SPECIFICATIONS

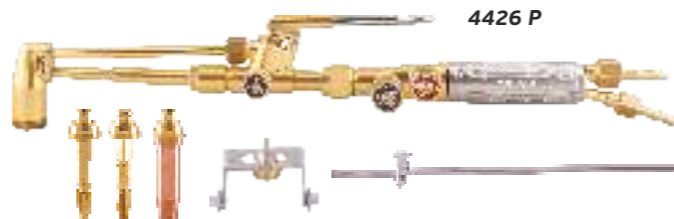
- Oxygen-Fuel gas cutting operations.
- Conforms to EN ISO 5172.
- Injector type cutting torch.
- Special design for different fuel gas types. (Propane/Natural Gas/Acetylene).
- Light handle designed for stability and gas tightness.
- Easy connection to the shank.
- Oring system to supply gas tightness on the valves.
- Improved gas cutting valve system.
- 0 - 100 mm cutting capacity.



4410 P



4416 P



4426 P

### SHANK

Order No	Welding Arm Connection Size	Oxygen Connection	Fuel Gas Connection	Hose Nipple
2601	Ø 16 mm	G 1/4"	G 3/8" Left	Ø 6,3 mm

#### TECHNICAL SPECIFICATIONS

- Suitable for cutting, welding, heating and brazing with right equipments.
- Conforms to EN ISO 5172.
- The ability to open and close more than 20.000 with improved valve systems.
- Easy connection with suitable equipments.
- Light handle designed for stability and gas tightness.
- Can be used with flashback arrestors.
- Compatible design with using all fuel gases.



### CUTTING TORCH

Order No	Specifications
4400 P	Cutting Torch + 3-100 mm Cutting Nozzle + Cutting Attachment, Oxygen, Propane
4400 M	Cutting Torch + 3-100 mm Cutting Nozzle + Cutting Attachment, Oxygen, Natural Gas
4400 A	Cutting Torch + 3-100 mm Cutting Nozzle + Cutting Attachment, Oxygen, Acetylene

#### TECHNICAL SPECIFICATIONS

- Oxygen-Fuel gas cutting operations.
- Conforms to EN ISO 5172.
- Injector type cutting torch.
- Special design for different fuel gas types. (Propane/Natural Gas/Acetylene)
- Light handle designed for stability and gas tightness.
- Easy connection to the shank.
- Oring system to supply gas tightness on the valves.
- Improved gas cutting valve system.
- 0 - 100 mm cutting capacity.



Cutting Attachment (Circular cutting 80 mm-800 mm)

### VERTICAL CUTTING TORCH

Order No	Specifications
4401 P	Vertical Cutting Torch , Oxygen - Propane
4401 A	Vertical Cutting Torch , Oxygen - Acetylene

#### TECHNICAL SPECIFICATIONS

- Oxygen-Fuel gas cutting operations
- Conforms to EN ISO 5172.
- Injector type cutting torch.
- Special design for different fuel gas types. (Propane/Natural Gas/Acetylene)
- Light handle designed for stability and gas tightness.
- Easy connection to the shank.
- Oring system to supply gas tightness on the valves
- Improved gas cutting valve system.
- 0-100mm cutting capacity.



Cutting Attachment  
(Circular cutting for 180 degree)

### SHANK

Order No	Welding Arm Connection Size	Oxygen Connection	Fuel Gas Connection	Hose Nipple
2601	Ø 16 mm	G 1/4"	G 3/8" Left	Ø 6,3 mm

#### TECHNICAL SPECIFICATIONS

- Suitable for cutting, welding, heating and brazing with right equipments.
- Conforms to EN ISO 5172.
- The ability to open and close more than 20.000 with improved valve systems.
- Easy connection with suitable equipments.
- Light handle designed for stability and gas tightness.
- Can be used with flashback arrestors.
- Compatible design with using all fuel gases.



### NOZZLE MIX CUTTING TORCH

Order No	Specifications
4430	Nozzle Mix Cutting Torch
4435	Nozzle Mix Cutting Torch + Shank

#### TECHNICAL SPECIFICATIONS

- Oxygen-Fuel gas cutting operations.
- Conforms to EN ISO 5172.
- Head mix type cutting equipment.
- Suitable for using with all gases. (Propane/Natural Gas/Acetylene).
- Light handle designed for stability and gas tightness.
- Easy connection to the shank.
- Oring system to supply gas tightness on the valves.
- Improved gas cutting valve system.
- 0 - 300 mm cutting capacity.



4430



4435



4530 A 4530 P/M

(Look at page 39)

### CUTTING TOOLS

Order No	Specifications
4426 P	
4426 M	Cutting Torch + 3-100 mm Cutting Nozzle + Shank
4426 A	
44907	Cutting Attachment ( 80 mm - 800 mm circle cutting)



4426 P



Cutting Attachment (Circular cutting 80 mm-800 mm)

#### TECHNICAL SPECIFICATIONS

- Oxygen-Fuel gas cutting operations.
- Conforms to EN ISO 5172.
- Injector type cutting equipment.
- Suitable for using with all gases. (Propane/Natural Gas/Acetylene).
- Light handle designed for stability and gas tightness.
- Suitable for flame safety connection.
- Easy connection to the shank.
- Oring system to supply gas tightness on the valves
- Improved gas cutting valve system.
- 0 - 100 mm cutting capacity.

### CUTTING TOOLS

Order No	Specifications
4416 P	
4416 M	Cutting Torch + 3-100 mm Cutting Nozzle + Shank
4416 A	



4416 P



Nozzle Set

#### TECHNICAL SPECIFICATIONS

- Oxygen-Fuel gas cutting operations.
- Conforms to EN ISO 5172.
- Injector type cutting equipment.
- Suitable for using with all gases. (Propane/Natural Gas/Acetylene).
- Light handle designed for stability and gas tightness.
- Suitable for flame safety connection.
- Easy connection to the shank.
- Oring system to supply gas tightness on the valves.
- Improved gas cutting valve system.
- 0 - 100 mm cutting capacity.

### CUTTING TORCH NOZZLE (OXYGEN - PROPANE)

Order No	Shear Thickness	Cutting Capacity	Oxygen Gas Pressure	Propane Gas Pressure
44043	3-20 mm	2 mm	2,5-4 bar	0,3 bar
44044	20-50 mm	3 mm	4-5 bar	0,3 bar
44045	50-100 mm	4 mm	5-6 bar	0,3 bar
44047	3 - 100 mm	Outer Case		
4420 P	3 - 100 mm	Propane Cutting Torch Nozzle (Set)		



4420 P

### CUTTING TORCH NOZZLE (OXYGEN - ACETYLENE)

Order No	Shear Thickness	Cutting Capacity	Oxygen Gas Pressure	Acetylene Gas Pressure
44037	3-20 mm	2 mm	2,5-4 bar	0,3 bar
44038	20-50 mm	3 mm	4-5 bar	0,3 bar
44039	50-100 mm	4 mm	5-6 bar	0,3 bar
4420A	3 - 100 mm	Propane Cutting Torch Nozzle (Set)		



4420 A

**SHANK**

Order No	Welding Arm Connection Size	Oxygen Connection	Fuel Gas Connection	Hose Nipple
2601	Ø 16 mm	G 1/4"	G 3/8" Left	Ø 6,3 mm

**TECHNICAL SPECIFICATIONS**

- Suitable for cutting, welding, heating and brazing with right equipments.
- Conforms to EN ISO 5172.
- The ability to open and close more than 20.000 with improved valve systems.
- Easy connection with suitable equipments.
- Light handle designed for stability and gas tightness.
- Can be used with flashback arrestors.
- Compatible design with using all fuel gases.



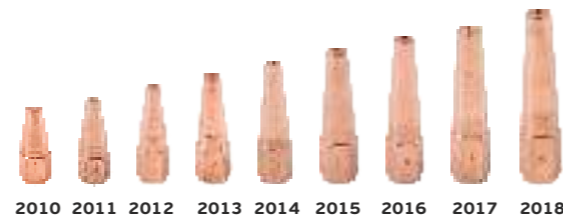
**WELDING ATTACHMENT**

Order No	Welding Capacity	Oxygen Gas Pressure	Acetylene Gas Pressure	Natural Gas Pressure
3610	0.2-0.5 mm	2,5 bar	0,25 bar	-
3611	0.5-1 mm	2,5 bar	0,25 bar	-
3612	1-2 mm	2,5 bar	0,25 bar	-
3613	2-4 mm	2,5 bar	0,25 bar	-
3614	4-6 mm	2,5 bar	0,25 bar	-
3615	6-9 mm	2,5 bar	0,30 bar	0,3 - 1 bar
3616	9-14 mm	2,5 bar	0,30 bar	0,3 - 1 bar
3617	14-20 mm	2,5 bar	0,30 bar	0,3 - 1 bar
3618	20-30 mm	2,5 bar	0,30 bar	0,3 - 1 bar



**WELDING NOZZLE**

Order No	Welding Attachment	Welding Capacity	Oxygen Gas Pressure	Acetylene Gas Pressure	Natural Gas Pressure
2010	3610	0.2-0.5 mm	2,5 bar	0,25 bar	-
2011	3611	0.5-1 mm	2,5 bar	0,25 bar	-
2012	3612	1-2 mm	2,5 bar	0,25 bar	-
2013	3613	2-4 mm	2,5 bar	0,25 bar	-
2014	3614	4-6 mm	2,5 bar	0,25 bar	-
2015	3615	6-9 mm	2,5 bar	0,30 bar	0,3 - 1 bar
2016	3616	9-14 mm	2,5 bar	0,30 bar	0,3 - 1 bar
2017	3617	14-20 mm	2,5 bar	0,30 bar	0,3 - 1 bar
2018	3618	20-30 mm	2,5 bar	0,30 bar	0,3 - 1 bar



**SHANK**

Order No	Welding Arm Connection Size	Oxygen Connection	Fuel Gas Connection	Hose Nipple
2601	Ø 16 mm	G 1/4"	G 3/8" Left	Ø 6,3 mm

**TECHNICAL SPECIFICATIONS**

- Suitable for cutting, welding, heating and brazing with right equipments.
- Conforms to EN ISO 5172.
- The ability to open and close more than 20.000 with improved valve systems.
- Easy connection with suitable equipments.
- Light handle designed for stability and gas tightness.
- Can be used with flashback arrestors.
- Compatible design with using all fuel gases.

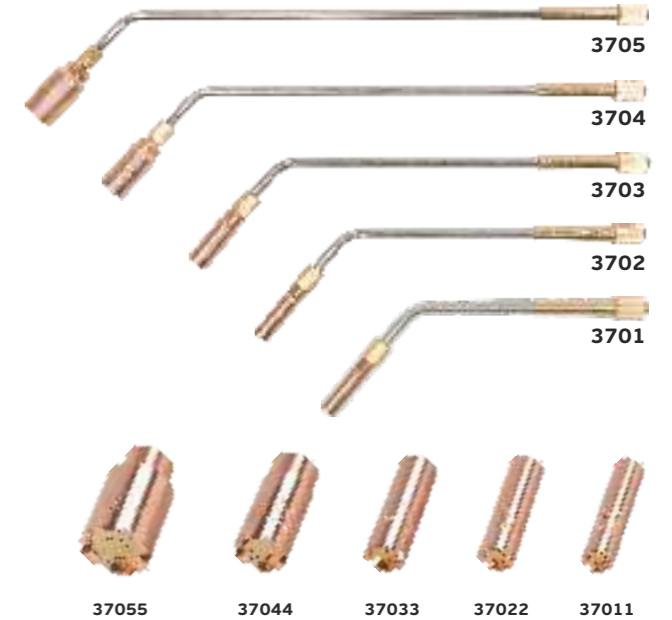


**OXYGEN - PROPANE HEATING ATTACHMENT**

Order No	Oxygen Gas Pressure	Propane - LPG Gas Pressure	Neck Length
3701	1-2 bar	0.5 bar	420 mm
3702	2-3 bar	0.5 bar	420 mm
3703	2-5 bar	1 bar	490 mm
3704	3-6 bar	1 bar	600 mm
3705	4-8 bar	1.5 bar	670 mm

**OXYGEN - PROPANE HEATING NOZZLE**

Heating Nozzle Order No	Heating Attachment Order No	Oxygen Gas Pressure	Propane - LPG Gas Pressure
37011	3701	1-2 bar	0.5 bar
37022	3702	2-3 bar	0.5 bar
37033	3703	2-5 bar	1 bar
37044	3704	3-6 bar	1 bar
37055	3705	4-8 bar	1.5 bar

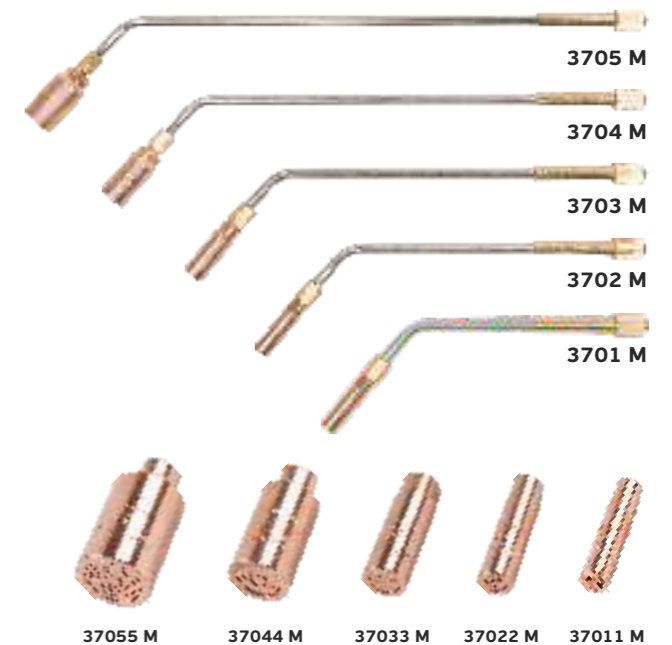


**OXYGEN - NATURAL GAS HEATING ATTACHMENT**

Order No	Oxygen Gas Pressure	Natural Gas Pressure	Neck Length
3701 M	2-3 bar	0.3 - 1 bar	420 mm
3702 M	3,5-4 bar	0.3 - 1 bar	420 mm
3703 M	4-5 bar	0.3 - 1 bar	490 mm
3704 M	5-6 bar	0.3 - 1 bar	600 mm
3705 M	6-7 bar	0.3 - 1 bar	670 mm

**OXYGEN - PROPANE HEATING NOZZLE**

Heating Nozzle Order No	Heating Attachment Order No	Oxygen Gas Pressure	Natural Gas Pressure
37011 M	3701 M	2-3 bar	0.3 - 1 bar
37022 M	3702 M	3,5-4 bar	0.3 - 1 bar
37033 M	3703 M	4-5 bar	0.3 - 1 bar
37044 M	3704 M	5-6 bar	0.3 - 1 bar
37055 M	3705 M	6-7 bar	0.3 - 1 bar



### SHANK

Order No	Welding Attachment Connection Size	Oxygen Connection	Fuel Gas Connection
2609	Ø 16 mm	G 1/4"	G 3/8" Left

#### TECHNICAL SPECIFICATIONS

- Suitable for cutting, welding, heating and brazing with right equipments.
- Conforms to EN ISO 5172.
- The ability to open and close more than 20.000 with improved valve systems.
- Easy connection with suitable equipments.
- Light handle designed for stability and gas tightness.
- Can be used with flashback arrestors.
- Compatible design with using all fuel gases.



### CUTTING TORCH

Order No	Specifications
4440	Nozzle Mix Type Cutting Torch

#### TECHNICAL SPECIFICATIONS

- Oxygen - Acetylene cutting applications.
- Suitable for EN ISO 5172.
- Injection type cutting equipment.
- Handle designed for stability and gas tightness.
- Easy connection for shank.
- O-ring system to supply gas tightness on the valves.
- Stainless steel metal trigger.
- 0 - 300 mm cutting capacity.



### CUTTING TORCH

Order No	Specifications
4450	Nozzle Mix Type Cutting Torch

#### TECHNICAL SPECIFICATIONS

- Oxygen - Acetylene cutting applications.
- Suitable for EN ISO 5172.
- Injection type cutting equipment.
- Handle designed for stability and gas tightness.
- Easy connection for shank.
- O-ring system to supply gas tightness on the valves.
- Stainless steel metal trigger.
- 0 - 300 mm cutting capacity.



### SHANK

Order No	Welding Attachment Connection Size	Oxygen Connection	Fuel Gas Connection
2608	Ø 16 mm	G 1/4"	G 3/8" Left

#### TECHNICAL SPECIFICATIONS

- Suitable for cutting, welding, heating and brazing with right equipments.
- Conforms to EN ISO 5172.
- The ability to open and close more than 20.000 with improved valve systems.
- Easy connection with suitable equipments.
- Light handle designed for stability and gas tightness.
- Can be used with flashback arrestors.
- Compatible design with using all fuel gases.



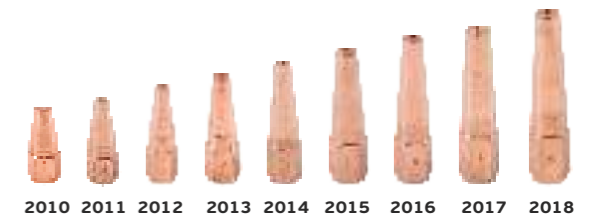
### WELDING ATTACHMENT

Order No	Welding Capacity	Oxygen Gas Pressure	Acetylene Gas Pressure	Natural Gas Pressure
3610	0.2-0.5 mm	2,5 bar	0,25 bar	-
3611	0.5-1 mm	2,5 bar	0,25 bar	-
3612	1-2 mm	2,5 bar	0,25 bar	-
3613	2-4 mm	2,5 bar	0,25 bar	-
3614	4-6 mm	2,5 bar	0,25 bar	-
3615	6-9 mm	2,5 bar	0,30 bar	0,3 - 1 bar
3616	9-14 mm	2,5 bar	0,30 bar	0,3 - 1 bar
3617	14-20 mm	2,5 bar	0,30 bar	0,3 - 1 bar
3618	20-30 mm	2,5 bar	0,30 bar	0,3 - 1 bar



### CUTTING NOZZLE

Order No	Welding Attachment	Welding Capacity	Oxygen Gas Pressure	Acetylene Gas Pressure	Natural Gas Pressure
2010	3610	0.2-0.5 mm	2,5 bar	0,25 bar	-
2011	3611	0.5-1 mm	2,5 bar	0,25 bar	-
2012	3612	1-2 mm	2,5 bar	0,25 bar	-
2013	3613	2-4 mm	2,5 bar	0,25 bar	-
2014	3614	4-6 mm	2,5 bar	0,25 bar	-
2015	3615	6-9 mm	2,5 bar	0,30 bar	0,3 - 1 bar
2016	3616	9-14 mm	2,5 bar	0,30 bar	0,3 - 1 bar
2017	3617	14-20 mm	2,5 bar	0,30 bar	0,3 - 1 bar
2018	3618	20-30 mm	2,5 bar	0,30 bar	0,3 - 1 bar



### SHANK

Order No	Welding Arm Connection Size	Oxygen Connection	Fuel Gas Connection	Hose Nipple
2601	Ø 16 mm	G 1/4"	G 3/8" Left	Ø 6,3 mm

#### TECHNICAL SPECIFICATIONS

- Suitable for cutting, welding, heating and brazing with right equipments.
- Conforms to EN ISO 5172.
- The ability to open and close more than 20.000 with improved valve systems.
- Easy connection with suitable equipments.
- Light handle designed for stability and gas tightness.
- Can be used with flashback arrestors.
- Compatible design with using all fuel gases.



### CONNECTION NECK

Order No	Use Together With	Gas Type	Neck Length	Shank Connection	Burner Connection
3020 M	2601	Natural Gas	200 mm	Ø 16 mm	M 20x1
3040 M			400 mm		
3060 M			600 mm		



### NATURAL GAS HEATING BURNERS

Order No	Flame Length
3345 M	40 cm
3351 M	47 cm
3357 M	49 cm
3363 M	52 cm

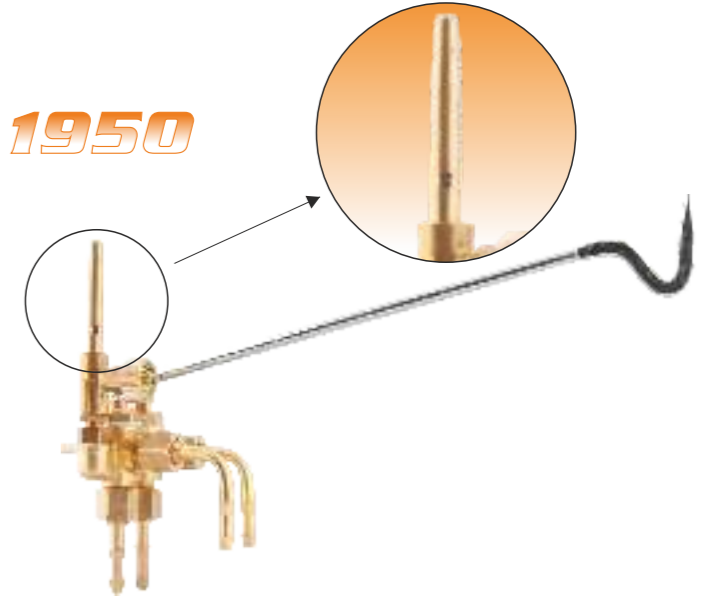


### OXYGEN AND ACETYLENE GAS ECONOMIZER

#### TECHNICAL SPECIFICATIONS

- It is used to reduce gas consumption during oxygen - acetylene cutting, welding, heating and brazing applications.
- Pilot mechanism enables to regenerate a flame which is generated and adjusted previously
- It saves time as there is no re adjustment of the flame.
- Extend the life time of the adjustment valves.
- Increase working safety.
- **It contains inclined hose connection for work safety.**

**1950**

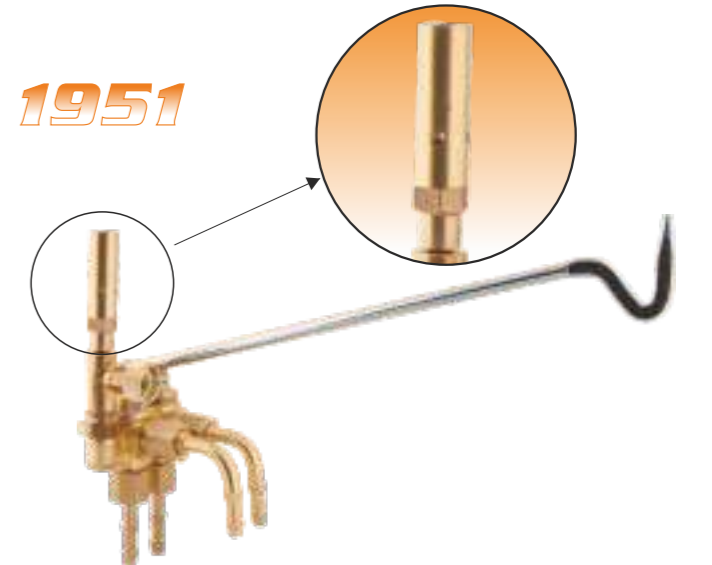


### OXYGEN AND PROPANE GAS ECONOMIZER

#### TECHNICAL SPECIFICATIONS

- It is used to reduce gas consumption during oxygen - propane cutting, welding, heating and brazing applications.
- Pilot mechanism enables to regenerate a flame which is generated and adjusted previously
- It saves time as there is no re adjustment of the flame.
- Extend the life time of the adjustment valves.
- Increase working safety.
- **It contains inclined hose connection for work safety.**

**1951**

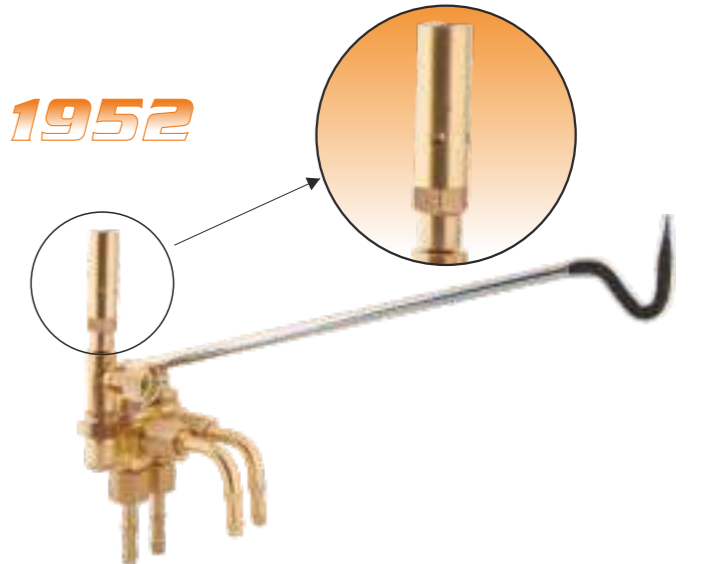


### OXYGEN AND NATURAL GAS ECONOMIZER

#### TECHNICAL SPECIFICATIONS

- It is used to reduce gas consumption during oxygen- natural gas cutting, welding, heating and brazing applications.
- Pilot mechanism enables to regenerate a flame which is generated and adjusted previously
- It saves time as there is no re adjustment of the flame.
- Extend the life time of the adjustment valves.
- Increase working safety.
- **It contains inclined hose connection for work safety.**

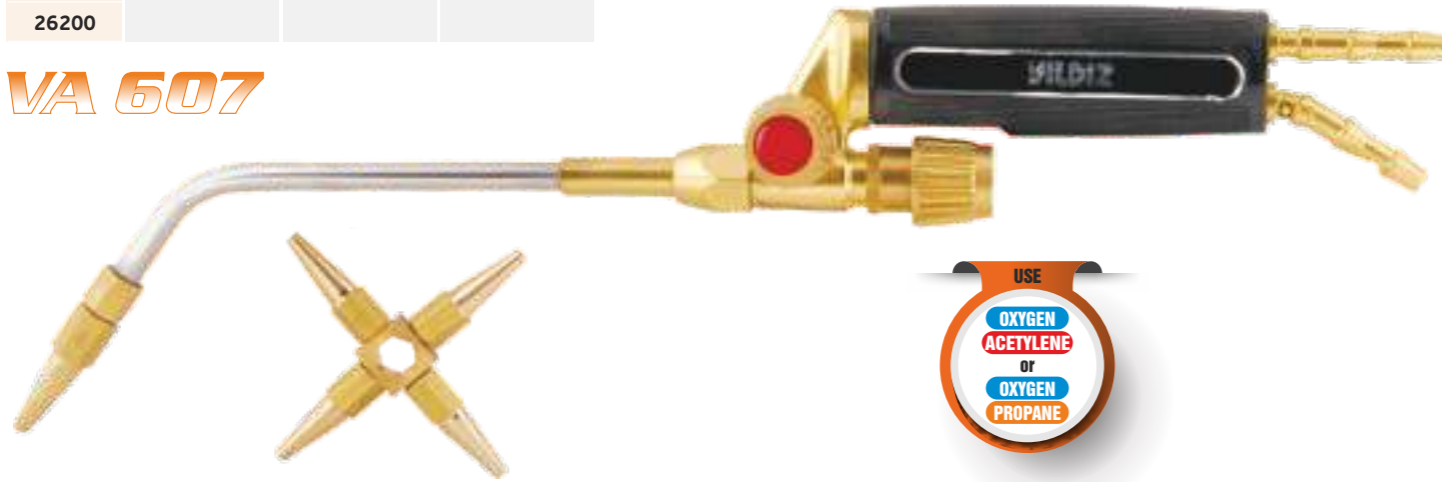
**1952**



**LIGHT TYPE WELDING TORCH  
AND NOZZLES**

Order No	Oxygen Gas Pressure	Acetylene Gas Pressure	Flammable Gas Connection
<b>VA 607</b>	Set (Shank + 5 pcs Nozzle)		
<b>26050</b>	1 bar	0.15 bar	0.30 bar
<b>26070</b>			
<b>26100</b>			
<b>26140</b>			
<b>26200</b>			

**VA 607**



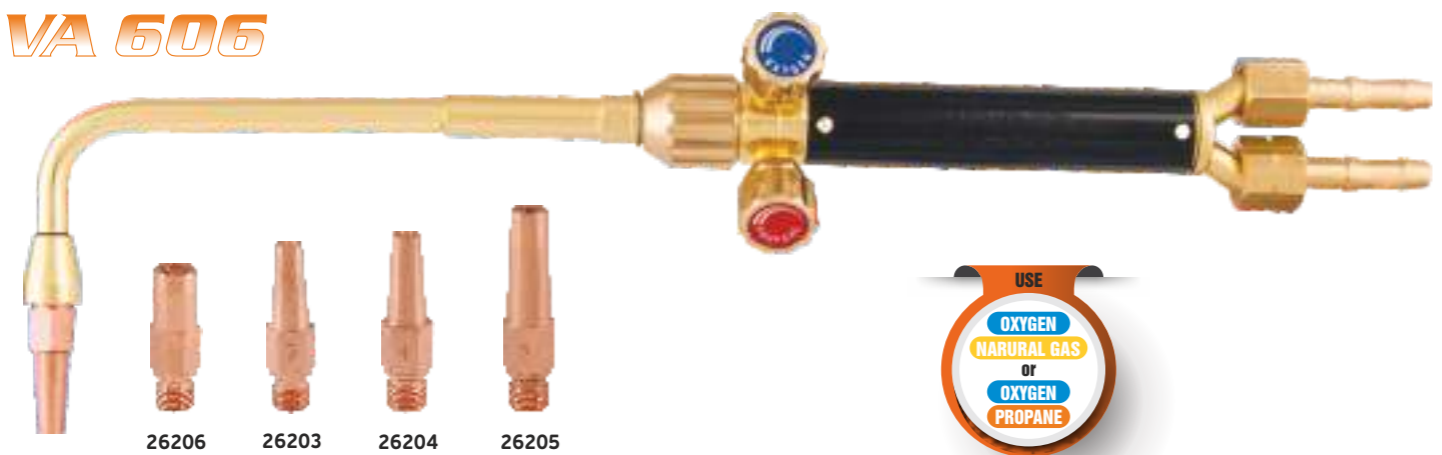
**TECHNICAL SPECIFICATIONS**

- Suitable for welding, heating and brazing. It is specially designed for use in manufacturing or repairing of refrigerator, air conditioner, car bodywork.
- Ergonomic, lightweight and compact design
- Suitable for oxy-acetylene and oxy-propane
- Welding capacity up to 5 mm
- Conforms to EN ISO 5172
- Nozzle set according to flame size

**LIGHT TYPE WELDING TORCH  
AND NOZZLES**

Order No	Oxygen Gas Pressure	Propane / Natural Gas Pressure
<b>VA 606</b>	Set (Shank + 5 pcs Nozzle)	
<b>26202</b>	1 bar	0.30 bar
<b>26203</b>	1 bar	
<b>26204</b>	1,5 bar	
<b>26205</b>	1,8 bar	
<b>26206</b>	2,5 bar	

**VA 606**



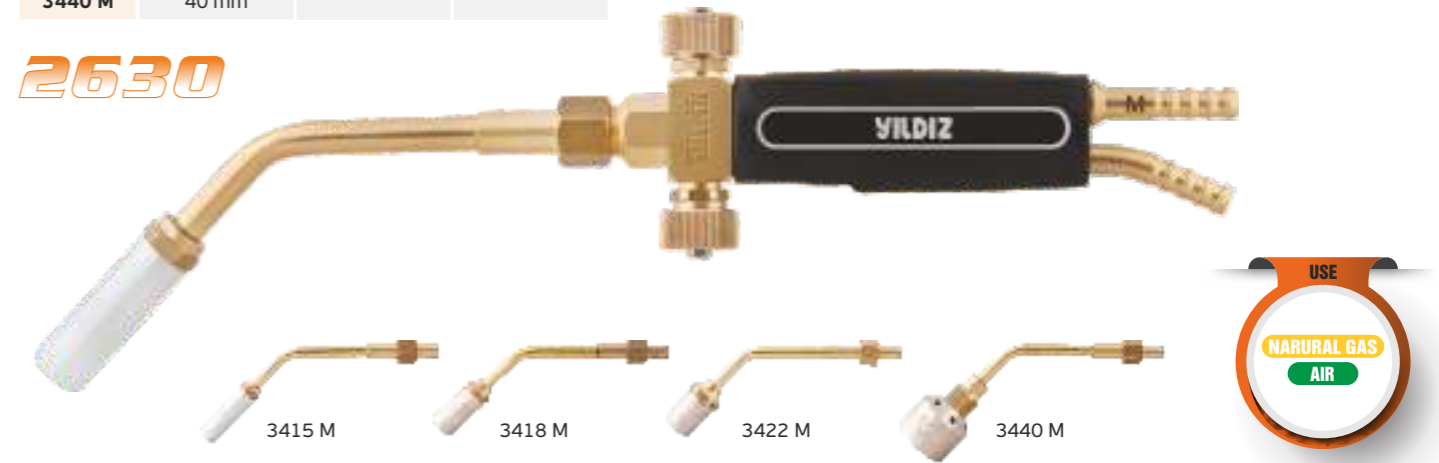
**TECHNICAL SPECIFICATIONS**

- Suitable for welding, heating and brazing. It is specially designed for use in manufacturing or repairing of refrigerator, air conditioner, car bodywork.
- Ergonomic, lightweight and compact design.
- Suitable for oxy-natural gas and oxy-propane.
- Welding capacity up to 5 mm.
- Conforms to EN ISO 5172.
- Nozzle set according to flame size.
- Injection mix design.
- Suitable for using with flashback arrestor .
- Improved gas valves, easy and fast flame adjustment.

**JEWELER TYPE HEATING TORCH  
AND HEADS**

Order No	Ø	Natural Gas Pressure	Air Pressure
<b>2630</b>	Set (Shank + 4 pcs Nozzle)		
<b>2631</b>	Nozzle		
<b>3415 M</b>	15 mm	0.3 - 1 bar	2.5 - 3,5 bar
<b>3418 M</b>	18 mm		
<b>3422 M</b>	22 mm		
<b>3440 M</b>	40 mm		

**2630**



**TECHNICAL SPECIFICATIONS**

- It is used in soldering and welding works for repair and maintenance works in jewelry, hobby, handicrafts, metal sculpture, glass arts, small electronic repair and maintenance works.
- Ergonomic, lightweight and compact design.
- Suitable for Air-Natural Gas and Air-Propane.
- Nozzle set according to flame size.
- Conform to EN ISO 9012
- Suitable for melting gold and silver.

**JEWELER TYPE WELDING TORCH  
AND NOZZLES**

Order No	Hydrogen Gas Pressure	Acetylene Gas Pressure	Oxygen Gas Pressure
<b>2605</b>	Jeweler Type Heating Torch And Nozzles		
<b>No: 3</b>	0,1- 0,2 bar	0,13- 0,41 bar	0,13- 0,41 bar
<b>No: 4</b>			
<b>No: 5</b>			
<b>No: 6</b>			

**2605**



**TECHNICAL SPECIFICATIONS**

- It is used in soldering and welding works for repair and maintenance works in jewelry, hobby, handicrafts, metal sculpture, glass arts, small electronic repair and maintenance works.
- Ergonomic, lightweight and compact design.
- Suitable for Oxygen-Acetylene and Oxygen-Hydrogen.
- Nozzle set according to flame size.

**FLEXIBLE WELDING TORCH**

Order No	Explanation	Gas Pressure
2604	Shank	Oxygen: 0,3-0,8 bar Flammable Gas: 0,3-0,8 bar
26400	Mixer	
26410	Adapter	
26401	Flexible Brazing Welding Tip No 1 Set	
26402	Flexible Brazing Welding Tip No 2 Set	
26403	Flexible Brazing Welding Tip No 3 Set	
26404	Flexible Brazing Welding Tip No 4 Set	

**TECHNICAL SPECIFICATIONS**

- It enables to heat both sides of the desired part which is desired to be welded and heated, at the same time. Accordingly allows to end the operation in a shorter period of time.
- It is possible to make manual adjustment to the diameter without changing the part.
- It has four different burner tips according to the area of use.
- Type of gas; Oxygen - Propane & Oxygen - Natural Gas



**WELDING AND CUTTING OUTFITS**

Specifications	8600	8800
<b>Welding Capacity</b>	0,5-14 mm	0,5 - 30 mm
<b>Cutting Thickness</b>	3-100 mm	3 - 100 mm
<b>Shank</b>	1 pcs	1 pcs
<b>Cutting Torch</b>	1 pcs	1 pcs
<b>Nozzle</b>	1 set	1 set
<b>Welding Attachment</b>	6 pcs	8 pcs
<b>Circular Cutting Atch.</b>	1 pcs	1 pcs
<b>Nozzle Cleaning Set</b>	1 pcs	1 set
<b>Universal Keys</b>	1 pcs	1 pcs
<b>O- Ring</b>	7 pcs	9 pcs
<b>Welding Google</b>	1 pcs	1 pcs
<b>Lighter</b>	1 pcs	1 pcs

**8800**



**WELDING AND CUTTING OUTFITS**

Specifications	8603	8803
<b>Welding Capacity</b>	0,5-14 mm	0,5 - 30 mm
<b>Cutting Thickness</b>	0-300 mm	0-300 mm
<b>Shank</b>	1 pcs	1 pcs
<b>Cutting Torch</b>	1 pcs	1 pcs
<b>Nozzle</b>	1 set	1 set
<b>Welding Arms</b>	6 pcs	8 pcs
<b>Circular Cutting Atch.</b>	1 pcs	1 pcs
<b>Nozzle Cleaning Set</b>	1 pcs	1 set
<b>Universal Keys</b>	1 pcs	1 pcs
<b>O- Ring</b>	7 pcs	9 pcs
<b>Welding Google</b>	1 pcs	1 pcs
<b>Lighter</b>	1 pcs	1 pcs

**8803**



### WELDING AND CUTING OUTFITS

Specifications	8210P	8210A
<b>Welding Capacity</b>	4-6 mm	4-6 mm
<b>Cutting Thickness</b>	3-100 mm	3-100 mm
<b>Gas Out Pressure</b>	0-10 bar (Oxygen) 0-1,5 bar (Propane)	0-10 bar (Oxygen) 0-1,5 bar (Propane)
<b>Gas Flow Rate P<sub>z</sub>=10 bar</b>	30 m <sup>3</sup> /h (Oxygen)	30 m <sup>3</sup> /h (Oxygen)
<b>Gas Flow Rate P<sub>z</sub>=1,5 bar</b>	5 m <sup>3</sup> /h (Propane)	5 m <sup>3</sup> /h (Propane)
<b>Outlet Pressure For Flashback Arrestor</b>	10 bar (Oxygene) 1,5 bar (Fuel Gas)	10 bar (Oxygene) 1,5 bar (Fuel Gas)
<b>Outlet Flow For Flashback Arrestor</b>	35 m <sup>3</sup> /h 5,3 m <sup>3</sup> /h (Propane)	35 m <sup>3</sup> /h 7 m <sup>3</sup> /h (Propane)
<b>Pressure Regulator</b>	5310S (1 pcs) + 5120 (1 pcs)	5310S (1 pcs) + 5311S (1 pcs)
<b>Shank</b>	2601 (1 pcs)	2601 (1 pcs)
<b>Cutting Torch</b>	4410P (1 pcs)	4410P (1 pcs)
<b>Cutting Nozzle</b>	4420P (1 pcs)	4420P (1 pcs)
<b>Welding Attachment</b>	3614 (1 pcs)	3614 (1 pcs)
<b>Flashback Arrestor</b>	1118 (1 pcs) + 1128 (1 pcs)	1118 (1 pcs) + 1128 (1 pcs)
<b>Nozzle Cleaning Set</b>	1010 (1 pcs)	1010 (1 pcs)
<b>Lighter</b>	1012 (1 pcs)	1012 (1 pcs)
<b>Welding Google</b>	1014 (1 pcs)	1014 (1 pcs)
<b>Welding Gloves</b>	1017 (1 pcs)	1017 (1 pcs)
<b>Lantern</b>	1 pcs	1 pcs



**8210A**



**8210P**

**PROPANE**  
**HEATING AND WELDING**  
**EQUIPMENTS**

### VACUUM PACKAGED WELDING SETS

Order No	SPECIFICATIONS
<b>VA613</b>	Vacuum Packaged Welding Set Set (2601+3611+3612+3613+3614+3615)
<b>VA615</b>	Vacuum Packaged Welding Set Set (2601+3611+3612+3613+3614+3615)



**VA613**



**VA615**

**PROPANE SHANK (WITH TRIGGER)**

Order No	Neck Connection	Outlet Connection	Gas Pressure
2201	M 14x1	Ø 6 mm	4 bar
2201-1		G 3/8"	

**TECHNICAL SPECIFICATIONS**

- All kinds of soldering and heating processes.
- Conforms to EN ISO 9012 .
- Compact and light design.
- Triggered and open - close system.
- Pre-adjustable pilot flame.
- Fixed hose connection (2201).
- Removable hose connection (2201-1 Model).
- Usable with natural gas and propane gas.



**PROPANE SHANK**

Order No	Neck Connection	Outlet Connection	Gas Pressure
2202	M 14x1	Ø 6 mm	4 bar
2202-1		G 3/8"	

**TECHNICAL SPECIFICATIONS**

- All kinds of soldering and heating and burning processes.
- EN ISO 9012 .
- Compact and light design.
- Fixed hose connection (2202).
- Removable hose connection (2202 - 1 Model).
- Usable with natural gas and propane gas.



**PROPANE SHANK (WITH TRIGGER)**

Order No	Neck Connection	Outlet Connection	Gas Pressure
2401	M 14x1	Ø 6 mm	4 bar
2401-1		G 3/8"	

**TECHNICAL SPECIFICATIONS**

- All kinds of soldering and heating and burning processes
- Conforms to EN ISO 9012 .
- Compact and light design
- Triggered and open-close system
- Pre-adjustable pilot flame
- Fixed hose connection (2201)
- Removable hose connection (2201-1 Model)
- Usable with natural gas and propane gas.

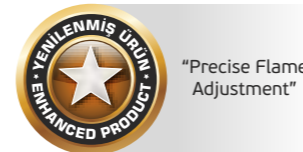


**PROPANE SHANK (TRIGGERED - PILOT FLAME)**

Order No	Neck Connection	Outlet Connection	Gas Pressure
2402	M 14x1	Ø 6 mm	4 bar
2402-1		G 3/8"	

**TECHNICAL SPECIFICATIONS**

- All kinds of soldering and heating and burning processes
- Conforms to EN ISO 9012 .
- Compact and light design
- **New gas valve design for precise flame adjustment**
- **New hose connection design that prevents hose rotation.**
- Removable hose connection (2402- 1 Model)
- Usable with natural gas and propane gas.



**PROPANE SHANK (FIXED NECK)**

Order No	Neck Connection	Head Connection	Outlet Connection	Gas Pressure (max)
2206	100	M 20x1	Ø 6 mm	4 bar
2210	200			

**TECHNICAL SPECIFICATIONS**

- All kinds of soldering and heating and burning processes
- Conforms to EN ISO 9012 .
- Fixed neck design with 100 mm and 200 mm
- Fixed hose connection
- Usable with natural gas and propane gas.

2206



**PROPANE SHANK (FIXED NECK)**

Order No	Neck Connection	Head Connection	Outlet Connection	Gas Pressure (max)
2406	100	M 20x1	Ø 6 mm	4 bar
2410	200			

**TECHNICAL SPECIFICATIONS**

- All kinds of soldering and heating processes.
- Conforms to EN ISO 9012 .
- Fixed neck design with 100 mm and 200 mm.
- Fixed hose connection .
- Usable with natural gas and propane gas.

2406



**PROPANE SHANK**

Order No	Neck Connection	Outlet Connection	Gas Pressure
2203	M 14x1	Ø 6 mm	4 bar

**TECHNICAL SPECIFICATIONS**

- All kinds of soldering and heating processes.
- Conforms to EN ISO 9012 .
- Fixed neck design with 100 mm and 200 mm.
- Fixed hose connection .
- Usable with natural gas and propane gas.
- Compact and light design.



**CONNECTION NECK**

Order No	Used With	Neck Length	Shank Connection Length	Head Connection Measure
3006	2203	60 mm	M 14x1	M 20x1
3010		100 mm		



3010



3006

**JEWELER TYPE WELDING and  
SOLDERING BURNERS**

Order No	Flame Length
35037	2,5 cm
39038	3 cm
39039	4,5 cm
39040	15 cm
39041	25 cm



35037

39038

39039

39040

39041

HEATING and WELDING BURNERS		
Order No	Gas Type	Flame Length
3214	Propane	2,5 cm
3217		3 cm
3219		4,5 cm
3222		25 cm
3214 M	Natural Gas	2,5 cm
3217 M		3 cm
3219 M		4,5 cm
3222 M		25 cm



3214



3217



3219



3222

HEATING and WELDING BURNERS		
Order No	Gas Type	Flame Length
3122	Propane	15 cm
3128		20 cm
3132		22 cm
3135		25 cm
3122 M	Natural Gas	15 cm
3128 M		20 cm
3132 M		22 cm
3135 M		25 cm



3122



3128



3132



3135

HEATING BURNERS		
Order No	Gas Type	Flame Length
3345	Propane	40 cm
3351		47 cm
3357		49 cm
3363		52 cm



3345



3351



3357



3363

HEATING BURNERS		
Order No	Gas Type	Flame Length
3445	Propane	40 cm
3451		47 cm
3457		49 cm
3463		52 cm



3445



3451



3457



3463

BRAZING BURNER		
Order No	Gas Consumption	Shank Connection
3240	310 g/h (P=1.5 bar)	M 14x1
3241	Brazing Burner Tip	



3240

3241

#### TECHNICAL SPECIFICATIONS

- Copper pipe heating and welding for refrigerators and air conditioners.
- Heating equally to entire surface of pipe.
- Time and gas saving.
- Obtaining suitable flame, lenght by adjustment clamp.

TURBO SOLDERING and BRAZING BURNERS				
Order No	Burner Size	Heating Pipe Diameter	Shank Connection Size	Gas Cons. (P= 1,5 bar)
3512	12 mm	12 mm	M 14x1	150 g/h
3518	14 mm	18 mm		250 g/h
3522	17 mm	22 mm		315 g/h
3528	20 mm	28 mm		440 g/h



3512

CONNECTION NECK					
Order No	Used With	Gas Type	Neck Length	Shank Connection Size	Burner Conneciton Size
3006	2201	Propane	60 mm	M 14x1	M 20x1
3010			100 mm		
3020			200 mm		
3040			400 mm		
3060			600 mm		
3075			750 mm		
3100			1000 mm		



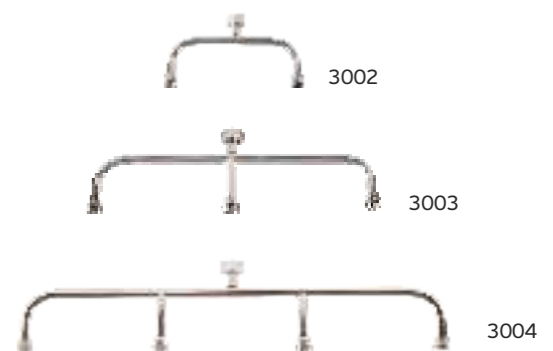
3040

3020

3010

3006

PROPANE HOSE CONNECTION NECKS			
Order No	Description	Neck Length Size	Burner Hose Connection Size
3002	For 2 Burners	M 20x1	M 20x1
3003	For 3 Burners		
3004	For 4 Burners		
3016	For 6 Burners		
30900	Propane neck holder 3002 ,3003 and 3004		



3002

3003

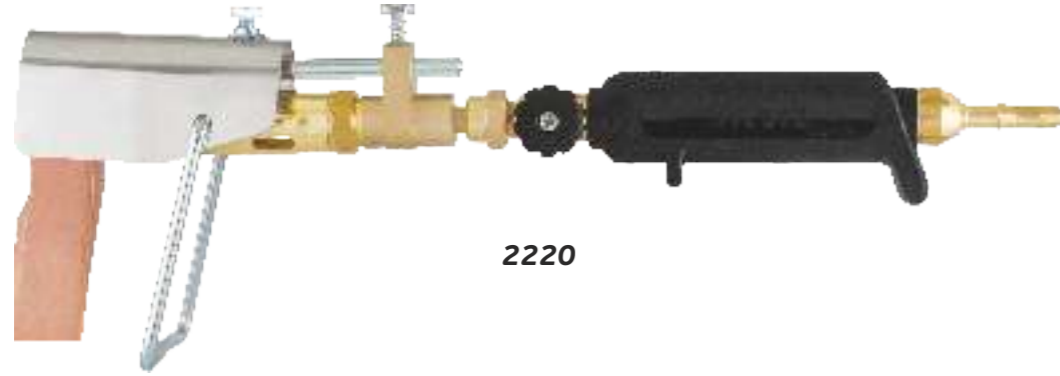
3004

**PROPANE SOLDERING IRON SET**

Order No	Description	Copper Bit Weight	Gas Pressure
2220	Soldering Iron Set	350 gr.	4 bar
2221		500 gr.	

**TECHNICAL SPECIFICATIONS**

- Used in all soldering applications.
- Conforms to EN ISO 9012 .
- Copper body and stainless steel shield.
- Used with different weight of copper bits.
- Used with pointed copper bits.
- Max. 4 bar working pressure.
- Support attachment for short stops.



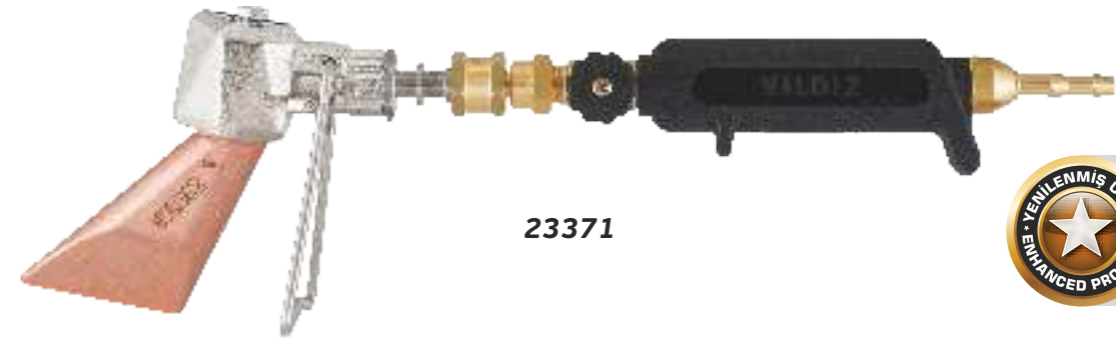
2220

**PROPANE SOLDERING IRON SET**

Order No	Description	Copper Bit Weight	Gas Pressure
23271	Soldering Iron Set	270 gr.	4 bar
23371		370 gr.	
23501		500 gr.	

**TECHNICAL SPECIFICATIONS**

- Used in all soldering applications.
- Conforms to EN ISO 9012.
- Turbo head soldering iron head.
- Brass body and die casting head.
- Improved copper bits heating system for gas saving.
- Can be used with different copper bits.
- Max. 4 bar working pressure
- Support attachment for short stops



23371



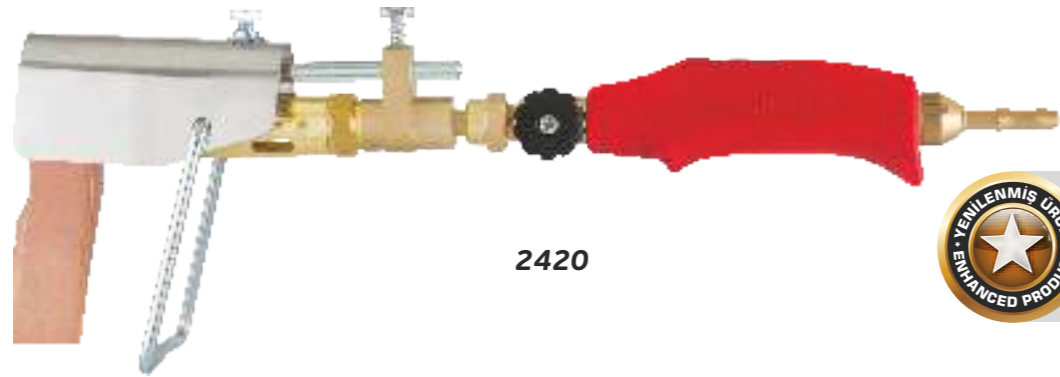
"Improved Soldering Iron, Set Design"

**PROPANE SOLDERING IRON SET**

Order No	Description	Copper Bit Weight	Gas Pressure
2420	Soldering Iron Set	350 gr.	4 bar
2421		500 gr.	

**TECHNICAL SPECIFICATIONS**

- Used in all soldering applications.
- Conforms to EN ISO 9012 .
- Copper body and stainless steel shield.
- Used with different weight of copper bits.
- Used with sharp Iron.
- Max. 4 bar working pressure.
- Support attachment for short stops.
- **New valve design for precise flame adjustment.**
- **New hose connection to prevents hose rotation.**



2420



"Precise Flame Adjustment"

**PROPANE SOLDERING IRON SET**

Order No	Description	Copper Bit Weight	Gas Pressure
24271	Soldering Iron Set	270 gr.	4 bar
24371		370 gr.	
24501		500 gr.	

**TECHNICAL SPECIFICATIONS**

- Used in all soldering applications.
- Conforms to EN ISO 9012.
- Turbo head soldering iron head.
- Brass body and die casting head.
- Improved copper bits heating system for gas saving.
- Can be used with different copper bits.
- Max. 4 bar working pressure
- Support attachment for short stops
- **New valve design for precise flame adjustment.**
- **New hose connection to prevents hose rotation.**



24371



"Improved Soldering Iron, Set Design"

**COPPER BITS**

Order No	Used With	Description	Weight
2223	2220 - 2221 2420 - 2421	Copper Bits	350 gr.
2225			500 gr.
2335		Sharp Copper Bits	250 gr.
2325			350 gr.



2225

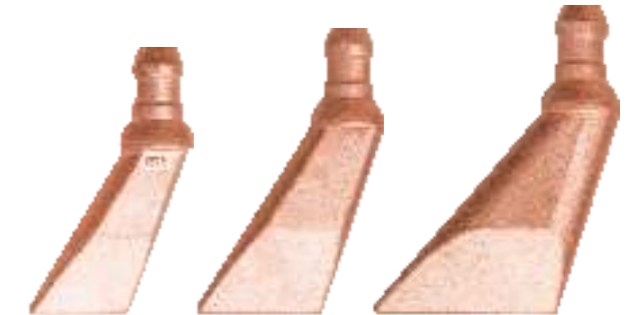
2223

2335

2325

**COPPER BITS**

Order No	Used With	Description	Weight
22271	23270 - 23370 23500 - 24270 24370 - 24500	Copper Bits	270 gr.
22371			370 gr.
22501			500 gr.



22271

22371

22501

**PROPANE SOLDERING IRON (WITH WOODEN SHANK)**

Order No	Description	Copper Bit Weight	Hose Length	Shank Connection Size	Gas Pressure
2502	Shank (Wood)	-	Ø 6 mm	M 15x1	4 bar
2520	Soldering Iron Set	350 gr.			
2521		500 gr.			

**TECHNICAL SPECIFICATIONS**

- Used in all soldering applications.
- Conforms to EN ISO 9012.
- Wooden shank design.
- Improved gas supply system.
- Rotated hose nipple to prevent hose rotation.
- Additional gas adjustment clamp.
- Brass body and stainless steel shield.
- Can be used with different weight copper bits.
- Can be used with different pointed copper bits.
- Support attachment for short stops.
- Max. 4 bar working pressure.



2520



2502

**COPPER BITS**

Order No	Used With	Description	Copper Bit Weight
2223	2220 - 2221 2420 - 2421	Copper Bits	350 gr.
2225			500 gr.
2335		Sharp Copper Bits	250 gr.
2325			350 gr.



2225

2223

2335

2325

**EASY BURN**

Order No	Gas Pressure	Flame Size
3633	1,5 bar	40 cm
3634		

**TECHNICAL SPECIFICATIONS**

- Grass and barbecue burnings, small diameter insulations, packaging, in applications such as paint and wallpaper removing.
- Fixed hose connection pipe and burner.
- Easy and practical use.
- Special design shank.
- 1,5 meter hose.



3633

**SOLDERING BURNERS WITH PROPANE NECK**

Order No	Neck Length	Flame Size	Shank Connection Size
3301	35 cm	55 cm	M 14x1
3302	60 cm		



3260

**SOLDERING and BRAZING OUTFIT**

SPECIFICATIONS	8400
2202 Shank	1 Adet
3010 Neck	1 Adet
3222 Head	1 Adet
3128 Head	1 Adet
3132 Head	1 Adet
3135 Head	1 Adet
23371 Soldering Set	1 Adet
5121 Propane Pressure Reg. Without Manometer	1 Adet
Lpg Hose	3 mt
Hose Clamp	3 Adet



8400

**PROPANE BUNSEN**

Order No	Description
3301	Bunsen With Fixed Burner
3302	Bunsen With replaceable heads



3301



3302

ROOFING GAS TORCH SETS		
Order No	Description	Hose Connection
İZO4051	Propane Heating and Isolation Torch (40 cm)	Ø 8 mm
İZO2051	Propane Heating and Isolation Torch (60 cm)	
İZO4051SET	Propane Heating and Isolation Torch (40 cm) (İZO4051+10 mt hose Ø 8 mm + 5420 + 1130)	
İZO2051SET	Propane Heating and Isolation Torch (20 cm) (İZO4051+10 mt hose Ø8 mm + 5420 + 1130)	

#### TECHNICAL SPECIFICATIONS

- Can be used in isolation operations where strong flame is needed in areas with heavy wind and open air.
- Ergonomic design.
- Rotary hose nipple for easy hose movement.
- Hose spring system to avoid breakings.
- Can be supplied as set with regulator, flashback arrestor and hose.
- 20 cm and 40 cm hose connection neck.
- New neck design to improve the balance.
- New improved heating burner regarding to heavy conditions.



PROPANE SHANK (WITH TRIGGER)			
Order No	Head Connection Size	Hose Connection Size	Gas Pressure (max)
2301	M 14x1	Ø 6 mm	4 bar

#### TECHNICAL SPECIFICATIONS

- It is used in all kinds of soldering, heating and burning processes.
- Conforms to EN ISO 9012.
- Compact and light design.
- Improved gas valve system.
- Fast open/close specifications with trigger system.
- Pilot flame can be preset.
- Rotary nipple connection.
- Used with natural gas and propane gas.



ROOFING GAS TORCHES CONNECTION NECK				
Order No	Used With	Neck Size	Shank Connection Size	Burner Connection Size
3020-3	2301	20 mm	M 14x1	M 20x1
3040-3		40 mm		

ROOFING GAS TORCHES CONNECTION BURNER	
Order No	Fire Length
3451-İZ	5,1 cm



ROOFING GAS TORCHES		
Order No	Explanation	Hose Connection
İZO2135-C	Roofing Gas Torches Set 2201+3235	Ø 6 mm
İZO2160-C	Roofing Gas Torches Set 2201+3260	
İZO6045-4	Roofing Gas Torches Set 2201+3060+3004+30900+4 pcs 3345	
İZO6051-3	Roofing Gas Torches Set 2201+3060+3003+30900+3 pcs 3351	
İZO6063-2	Roofing Gas Torches Set 2201+3060+3002+30900+2 pcs 3363	
İZO7545-4	Roofing Gas Torches Set 2201+3075+3004+4 pcs 3345	
İZO7545-6	Roofing Gas Torches Set 2201+3075+3016+6 pcs 3345	
İZO7551-3	Roofing Gas Torches Set 2201+3075+3003+3 pcs 3351	
İZO7557-1	Roofing Gas Torches Set 2201+3075+1 pcs 3357	
İZO7563-1	Roofing Gas Torches Set 2201+3075+1 pcs 3363	
İZO7563-2	Roofing Gas Torches Set 2201+3075+3002+2 pcs 3363	İZO6045
İZO7570	Roofing Gas Torches Set	



HEATING AND WELDING SETS	
Order No	Explanation
VA050	Heating and Welding Set 2202+3214
VA060	Heating and Welding Set 2202+3006+3217
VA061	Heating and Welding Set 2202+3006+3219
VA062	Heating and Welding Set 2202+3006+3222
VA100	Heating and Welding Set 2202+3010+3222
VA150	Heating and Welding Set 2202+3240
VA151	Heating and Welding Set 2202+3245
VA350	Heating and Welding Set 2203+3214
VA610	Heating and Welding Set 2206+3122
VA611	Heating and Welding Set 2206+3128
VA620	Heating and Welding Set 2206+3122+3128
VA622	Heating and Welding Set 2220
VA623	Heating and Welding Set 23270
VA632	Heating and Welding Set 2206+3132
VA635	Heating and Welding Set 2210+3135
VA645	Heating and Welding Set 2210+3345
VA902	Heating and Welding Set 2 Mt Hose + 2 pcs Clamp + adapter



VA050



VA061



VA062



VA100



VA150



VA151



VA350



VA610



VA611



VA620



VA632



VA622

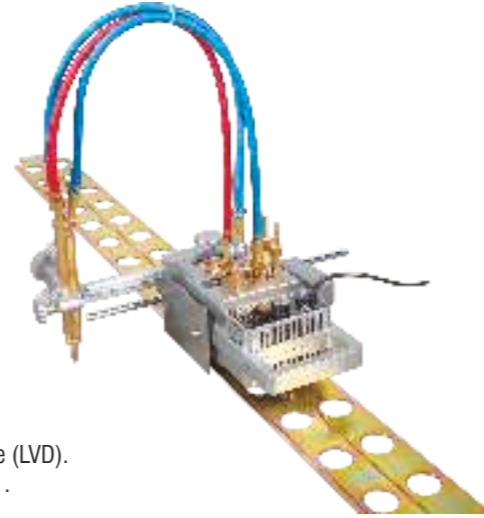


VA623



### AUTOMATIC CUTTING MACHINES WITH RAILS

Specilities	4604 (Single Cutting Torch)
Weight	13 kg
Width x Length x Height	180x380x160 mm
Gases to be used	Oxygen - Acetylene or Oxygene - Propane
Cutting Thickness	3 - 150 mm
Cutting Speed	75 - 700 mm/min
Circular Cutting Size	Ø 100 mm - Ø 1300 mm
Cutting Torch Angle	± 45°
Engine	24 V DC
Voltage	220 Voltage ( Optionally 110-50-48-42-32-24 V DC)
Accessories	2 mt. Rail circular cutting part, lighter, nozzle cleaning set and combine key

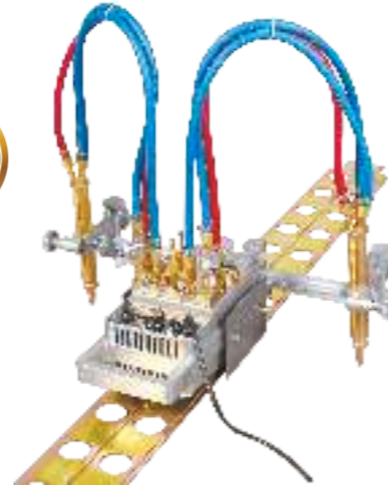
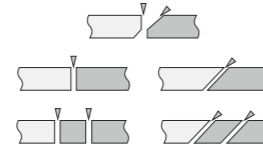


#### TECHNICAL SPECIFICATIONS

- Straight cutting, circle cutting, bevel cutting.
- Machine safety compliance (CE).
- Conformity to low voltage directive (LVD).
- Easy adjustment and control units .
- Manual and portable use.
- Ability to cut in different lengths with the attachable rail (0-2 mt each).
- Different voltage machines can be supplied as special production.
- Special design for plasma cutting.

### AUTOMATIC CUTTING MACHINES WITH RAILS

Specilities	4605 (Double Cutting Torch)
Weight	16 kg
Width x Length x Height	180x380x160 mm
Gases to be used	Oxygen - Acetylene or Oxygene - Propane
Cutting Thickness	3 - 100 mm
Cutting Speed	75 - 700 mm/min
Circular Cutting Size	Ø 100 mm - Ø 1680 mm
Cutting Torch Angle	± 45°
Engine	24 V DC
Voltage	220 Voltage ( Optionally 110-50-48-42-32-24 V DC)
Accessories	2 mt. Rail circular cutting part, lighter, nozzle cleaning set and combine key

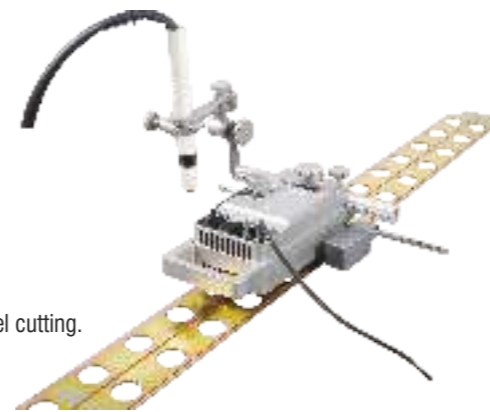


#### TECHNICAL SPECIFICATIONS

- Straight cutting, circle cutting, bevel cutting.
- Machine safety compliance (CE).
- Conformity to low voltage directive (LVD).
- Easy adjustment and control units .
- Manual and portable use.
- Ability to cut in different lengths with the attachable rail (0-2 mt each).
- Different voltage machines can be supplied as special production.
- Special design for plasma cutting.

### AUTOMATIC CUTTING MACHINES WITH RAILS

Specilities	4603
Weight	10 kg
Width x Length x Height	180x380x160 mm
Gases to be used	Air
Cutting Thickness	Depends on Plasma Machine's Amper
Cutting Speed	75 - 1800 mm/min
Circular Cutting Size	Ø 100 mm - Ø 1300 mm
Cutting Torch Angle	± 45°
Engine	24 V DC
Voltage	220 Voltage
Accessories	2 mt. Rail circular cutting part, combine key



#### TECHNICAL SPECIFICATIONS

- Straight cutting, circle cutting, bevel cutting.
- Machine safety compliance (CE).
- Manual and portable use.
- Easy adjustment and control units.
- Conformity to low voltage directive (LVD).
- Ability to cut in different lengths with the attachable rail (0-2 mt each).
- Different voltage machines can be supplied as special production.
- Special design for plasma cutting.

### PORTABLE SHAPE CUTTING MACHINE

Specilities	4683
Weight	45 kg
Width x Length x Height	550x1260x800 mm
Gases to be used	Air
Cutting Thickness	Depends on Plasma Machine's Amper
Cutting Speed	100 - 1700 mm/min
Circular Cutting Size	Ø 30 mm - Ø 600 mm (Ø 600 - 1700m with device)
Square Cutting Size	□ 30 mm - 600 mm ( □ 500 - 1200m with device)
Magnet shaft diameter	Ø 10 mm
Cutting Torch Angle	-
Engine	24 V DC
Voltage	220 Voltage ( Optionally 110-50-48-42-32-24 V DC)
Accessories	-

#### TECHNICAL SPECIFICATIONS

- Using a customized template, in high precision cutting operations.
- 30 - 1200 mm (With devices) Square cutting capacity.
- 30 - 1200 mm (With devices) Circular cutting capacity.
- Ø 10 mm stardard Magnet shaft diameter.
- Adjustable cutting speed.
- Easy adjustment and control units.
- Can be used in open or closed area.
- Use with plasma cutting machines.

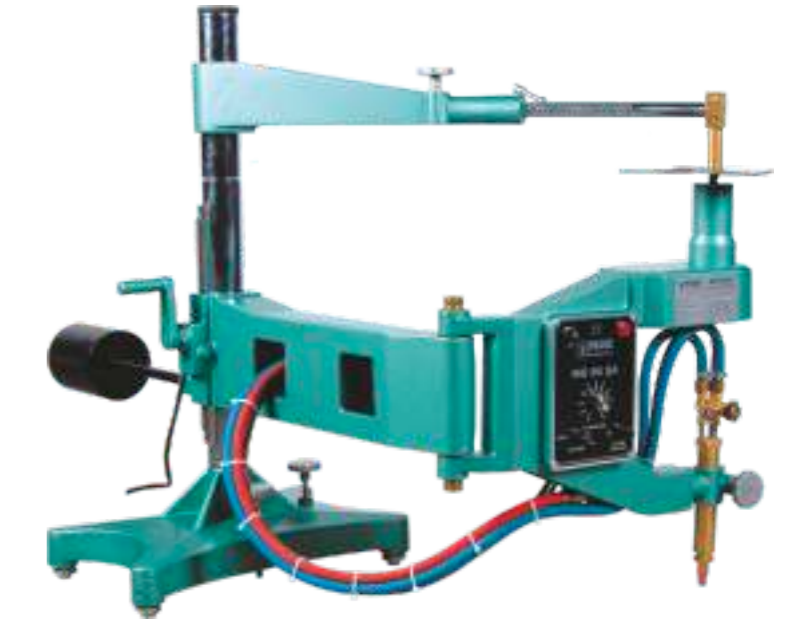


### PORTABLE SHAPE CUTTING MACHINE

Specilities	4684
Weight	50 kg
Width x Length x Height	550x1260x800 mm
Gases to be used	Oxygene - Acetylene or Oxygene - Propane
Cutting Thickness	3-100 mm
Cutting Speed	100 - 1000 mm/min
Circular Cutting Size	Q 30 mm - Q 600 mm (Q 600 - 1700m with device)
Square Cutting Size	□ 30 mm - 600 mm (□ 500 - 1200m with device)
Magnet shaft diameter	Ø 10 mm
Cutting Torch Angle	± 45°
Engine	24 V DC
Voltage	220 Voltage
Accessories	Lighter, nozzle cleaning set and combine key

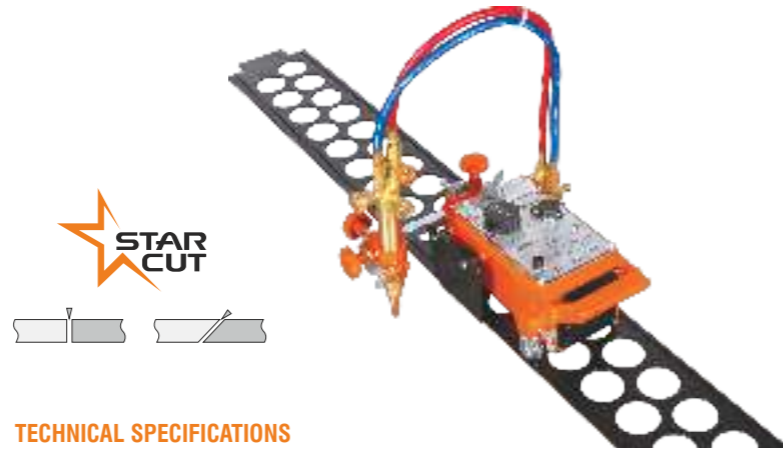
#### TECHNICAL SPECIFICATIONS

- Using a customized template, in high precision cutting operations.
- 30 - 1200 mm (With devices) Square cutting capacity.
- 30 - 1700 mm (With devices) Circular cutting capacity.
- Ø 10 mm stardard Magnet shaft diameter.
- Adjustable cutting speed.
- Easy adjustment and control units.
- Can be used in open or closed area.
- With gas welding machines.



### RAIL CUTTING MACHINES

Specilities	RK201 (Single Torch)
Weight	10 kg
Width x Length x Height	350x140x175 mm
Gases to be used	Oxygene - Acetylene or Oxygene - Propane
Cutting Thickness	3-60 mm
Cutting Speed 50 hz	180 - 800 mm/min
Cutting Speed 60 hz	100 - 1000 mm/min
Cutting Type	I - V
Cutting Torch Angle	± 45°
Circular Cutting Size	Ø 30 mm - Ø 2400 mm
Rail	1800 mm and multiple
Voltage	220 Voltage
Accessories	3 pcs Cutting Nozzle

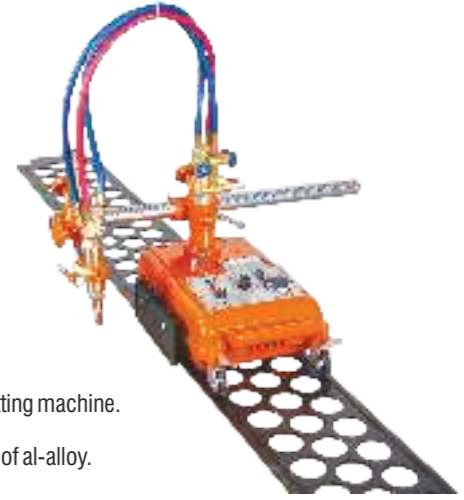


#### TECHNICAL SPECIFICATIONS

- I-V cutting applications can be make with single torch.
- Portable, lightweight and easy to use.
- The adjustment and control units of the machine are intended to be used by hand easily.
- The length of the rail is 1800 mm. Length can be extended by multiple rails.

### RAIL CUTTING MACHINES

Specilities	RK301 (Single Torch)
Weight	16 kg
Width x Length x Height	470x230x240 mm
Gases to be used	Oxygen - Acetylene or Oxygen - Propane
Cutting Thickness	6-100 mm
Cutting Speed 50 hz	50 -750 mm/min
Cutting Type	I-V
Cutting Torch Angle	± 45°
Rail	1800 mm and multiple
Voltage	220 Voltage
Accessories	Circle cutting set and 3 pcs cutting nozzle

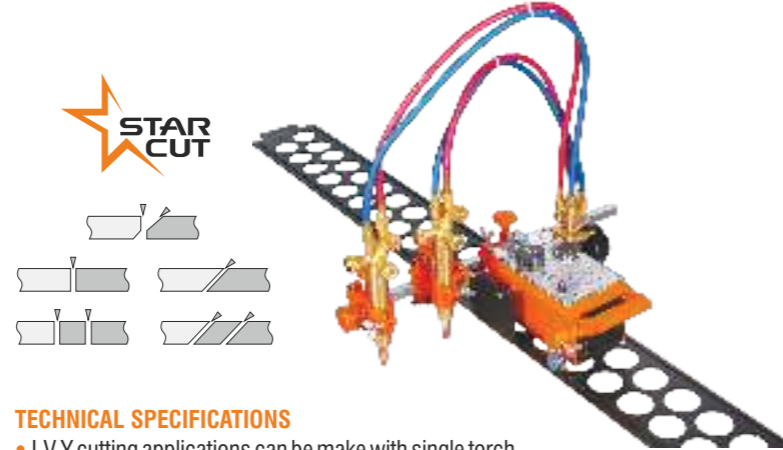
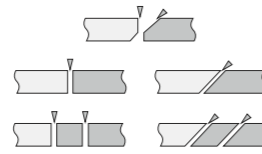


#### TECHNICAL SPECIFICATIONS

- It is a durable economical portable cutting machine.
- Straight ,circular and bevel cutting.
- Strong and compact main body made of al-alloy.
- Controllable speed regulation.
- Adjustable radius bar for circle cutting.
- The length of the rail is 1800 mm. Length can be extended by multiple rails.

### RAIL CUTTING MACHINES

Specilities	RK202 (Single Torch)
Weight	14,5 kg
Width x Length x Height	350x140x175 mm
Gases to be used	Oxygene - Acetylene or Oxygene - Propane
Cutting Thickness	5-60 mm
Cutting Speed 50 hz	180 - 800 mm/min
Cutting Speed 60 hz	100 - 1000 mm/min
Cutting Type	I - V - Y
Cutting Torch Angle	± 45°
Rail	1800 mm and multiple
Voltage	220 Voltage
Accessories	6 pcs Cutting Nozzle

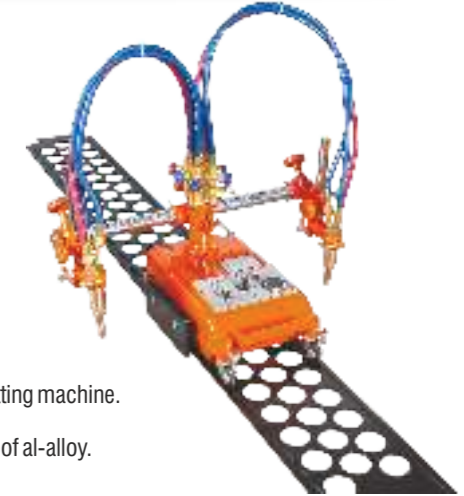
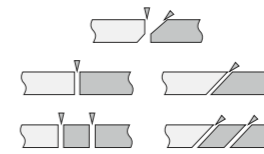


#### TECHNICAL SPECIFICATIONS

- I-V-Y cutting applications can be make with single torch.
- Portable, lightweight and easy to use.
- The adjustment and control units of the machine are intended to be used by hand easily.
- The length of the rail is 1800 mm. Length can be extended by multiple rails.

### RAIL CUTTING MACHINES

Specilities	RK302 (Double Torch)
Weight	21 kg
Width x Length x Height	470x230x240 mm
Gases to be used	Oxygen - Acetylene or Oxygen - Propane
Cutting Thickness	6-100 mm
Cutting Speed 50 hz	50 -750 mm/min
Cutting Type	I-V-Y
Cutting Torch Angle	± 45°
Rail	1800 mm and multiple
Voltage	220 Voltage
Accessories	Circle cutting set and 3 pcs cutting nozzle

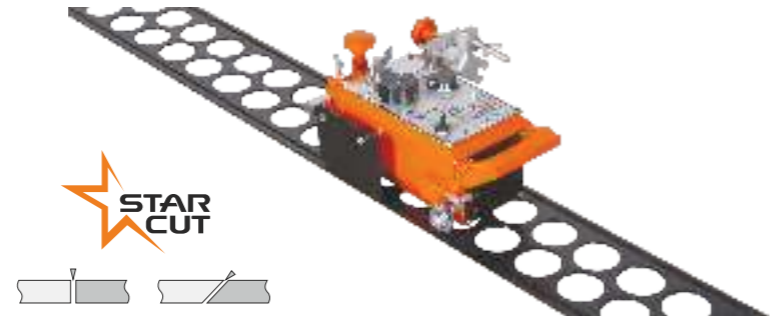


#### TECHNICAL SPECIFICATIONS

- It is a durable economical portable cutting machine.
- Straight ,circular and bevel cutting.
- Strong and compact main body made of al-alloy.
- Controllable speed regulation.
- Adjustable radius bar for circle cutting.
- The length of the rail is 1800 mm. Length can be extended by multiple rails.

### RAIL CUTTING MACHINES

Specilities	RK209
Weight	8,5 kg
Width x Length x Height	350x140x175 mm
Gases to be used	Pressure Air
Cutting Thickness	Depends on Plasma Machine Amper
Cutting Speed 50 hz	1500 mm/min
Cutting Speed 60 hz	-
Cutting Type	-
Cutting Torch Angle	-
Rail	-
Voltage	220 Voltage
Accessories	1800 mm and multiple

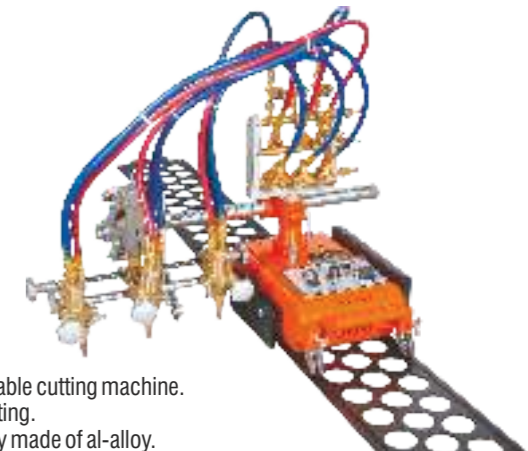
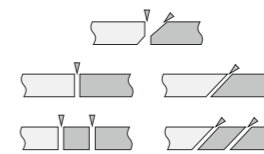


#### TECHNICAL SPECIFICATIONS

- I-V-Y cutting applications can be make with single torch.
- Portable, lightweight and easy to use.
- The adjustment and control units of the machine are intended to be used by hand easily.
- The length of the rail is 1800 mm. Length can be extended by multiple rails.

### RAIL CUTTING MACHINES

Specilities	RK303 (Triple Torch)
Weight	35 kg
Width x Length x Height	435x210x240 mm
Gases to be used	Oxygen - Acetylene or Oxygen - Propane
Cutting Thickness	6-50 mm
Cutting Speed 50 hz	50 -750 mm/min
Cutting Type	I-V-Y
Cutting Torch Angle	± 45°
Rail	1800 mm and multiple
Voltage	220 Voltage
Accessories	Circle cutting set and 3 pcs cutting nozzle



#### TECHNICAL SPECIFICATIONS

- It is a durable economical portable cutting machine.
- Straight ,circular and bevel cutting.
- Strong and compact main body made of al-alloy.
- Controllable speed regulation.
- Adjustable radius bar for circle cutting.
- The length of the rail is 1800 mm. Length can be extended by multiple rails.

### PIPE CUTTING MACHINE WITH CHAIN

Specilities	ZK50S	ZK50M
Weight	35 kg	16 kg
Width x Length x Height	265x420x450	265x420x450
Gases to be used	Oxygen - Acetylene or Oxygen - Propane	
Cutting Thickness	0-50 mm	0-50 mm
Cutting Speed	50 -1150 mm/min	50 -1150 mm/min
Cutting Type	-	-
Cutting Torch Angle	± 45°	± 45°
With Standard Chain	Ø 150 -600 m	Ø 150 -600 m
Voltage	220 Voltage	220 Voltage
Accessories	3 pcs cutting nozzle	3 pcs cutting nozzle



#### TECHNICAL SPECIFICATIONS

- The machine is a remote control gas motorized pipe cutting machine.
- It is easy to change the length of the chain for various size pipes.
- Cutting can be done in clockwise or counter clockwise direction from both sides of the machine.
- The machine can cut bevells of up to 45° by selecting the required angle on the torch holder.
- The Machine can be installed a tip guide system providing high cutting accuracy and makes the machine particularly suitable for large pipes
- Fixed guide rail also makes it possible to cut vertical pipe.



### MAGNETIC PIPE CUTTING MACHINE

Specilities	MK50S	MK50M
Weight	20 kg	20 kg
Width x Length x Height	350x310x280	350x310x280
Gases to be used	Oxygen - Acetylene or Oxygen - Propane	
Cutting Thickness	5-50 mm	5-50 mm
Cutting Speed	5 - 780 mm/min	5 - 780 mm/min
Cutting Type	-	-
Cutting Torch Angle	± 45°	± 45°
With Standard Chain	Ø 108 -600 m	Ø 108 -600 m
Voltage	220 Voltage	220 Voltage
Accessories	3 pcs cutting nozzle	3 pcs cutting nozzle



#### TECHNICAL SPECIFICATIONS

- The Machine features compact structure, stable running and easy operation.
- The magnetic absorbability force is over 50 kg.
- There are two sets magnetic rollers installed inside the machine body to keep the machine crawl on the pipe when cutting is operated.
- Optional steel belt assembly can be used to cut the big size pipe to assure the cutting accuracy.
- The belt assembly adopts an elastic unit which always to keep the torch align with the belt even the machine affects a slight offsetting.



### CUTTING TORCHES FOR CUTTING MACHINES

Order No	Used with
46041	4604 - 4605
46841	4684



46041



46841



### MST100 / STEEL BELT

Reserve Steel Belt ZK50M and MK50M  
1 pcs steel belt = 1,9 meter

It is used with Chain and Magnetic Pipe Cutting Machines.  
It prevents the deviation during the cutting process and it allows the machine to turn back to the starting point.



### ZC100 / EXTRA CHAIN

ZK50S and ZK50M  
(1 mt. or its multiplies)

Extra Chain calculating:  $Rx1/10 + 13$ : Number of Links (Number of links at 1 mt chain is 34 pcs.)  
Pipe circumference :  $2 \times 3,14 \times r + 1$



### 46117 SPARE RAIL

2 mt spare rails for 4603, 4604 and 4605 automatic cutting machines. Cutting length could be increased by adding 2 mt and multiple rails for long distance cutting.



### RY100 SPARE RAIL

1,8 mt spare rails for RK10E automatic cutting machines.



### RY200 SPARE RAIL

1,8 mt spare rails for RK201, RK202 and RK209 automatic cutting machines. Cutting length could be increased by adding 1,8 mt and multiple rails for long distance cutting.



### RY300 SPARE RAIL

1,8 mt spare rails for RK301, RK302 and RK309 automatic cutting machines. Cutting length could be increased by adding 1,8 mt and multiple rails for long distance cutting.



**CUTTING NOZZLES (ACETYLENE) FOR CUTTING MACHINES**

Order No	Cutting Thickness	Cutting Speed	Oxygen Pressure	Acetylene Pressure
<b>4520A</b>	3-5 mm	700-500 mm/min.	1,5-2,0 bar	0,3 bar
<b>4521A</b>	5-10 mm	660-400 mm/min.	2,5-3,5 bar	0,35 bar
<b>4522A</b>	10-25 mm	560-300 mm/min.	3,0-4,0 bar	0,35 bar
<b>4523A</b>	25-40 mm	400-230 mm/min.	3,5-4,5 bar	0,35 bar
<b>4524A</b>	40-60 mm	380-200 mm/min.	4,0-5,0 bar	0,4 bar
<b>4525A</b>	60-100 mm	250-180 mm/min.	4,5-5,5 bar	0,4 bar
<b>4526A</b>	100-200 mm	150-110 mm/min.	5,0-6,5 bar	0,4 bar



**4520 A**

**CUTTING NOZZLES (PROPANE) FOR CUTTING MACHINES**

Order No	Cutting Thickness	Cutting Speed	Oxygen Pressure	Propane Pressure
<b>4520P</b>	3-5 mm	700-500 mm/min.	1,5-2,0 bar	0,3 bar
<b>4521P</b>	5-10 mm	660-400 mm/min.	2,5-3,5 bar	0,3 bar
<b>4522P</b>	10-25 mm	560-300 mm/min.	3,0-4,0 bar	0,3 bar
<b>4523P</b>	25-40 mm	400-230 mm/min.	3,5-4,5 bar	0,3 bar
<b>4524P</b>	40-60 mm	380-200 mm/min.	4,0-5,0 bar	0,4 bar
<b>4525P</b>	60-100 mm	250-180 mm/min.	4,5-5,5 bar	0,4 bar
<b>4526P</b>	100-200 mm	150-110 mm/min.	5,0-6,5 bar	0,7 bar



**4520 P**

**CUTTING NOZZLES FOR AUTOMATIC CUTTING MACHINES**

Order No	Cutting Thickness	Cutting Speed	Working Pressure		Gas consumption (lt/h)		
			Oxygen	Flam. Gas	Cutting Oxygen	Heating Oxygen	Flam. Gas
<b>4520TP</b>	0-5 mm	500-400 mm/min.	2 bar	0,2 bar	800	980	220
<b>4521TP</b>	5-10 mm	400-350 mm/min.	2 bar	0,2 bar	1000	1080	280
<b>4522TP</b>	10-15 mm	350-280 mm/min.	3 bar	0,3 bar	2400	1100	300
<b>4523TP</b>	15-30 mm	280-200 mm/min.	3 bar	3 bar	5300	1240	340
<b>4524TP</b>	30-40 mm	200-150 mm/min.	3,5 bar	0,4 bar	7200	1560	410
<b>4525TP</b>	40-50 mm	150-100 mm/min.	4 bar	0,4 bar	9.500	1650	460
<b>4526TP</b>	50-100 mm	100-80 mm/min.	4,5 bar	0,5 bar	12.000	2900	600
<b>4527TP</b>	100-150 mm	80-60 mm/min.	5 bar	0,5 bar	12.500	3050	750
<b>4528TP</b>	150-250 mm	60-50 mm/min.	6,5 bar	0,7 bar	13.100	3100	790

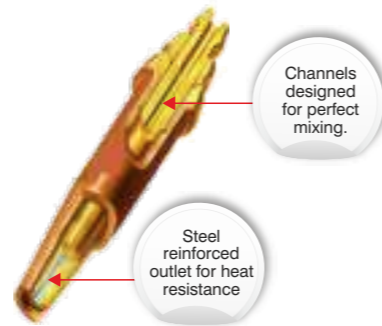


**45500P**

**4520TP**

**CUTTING NOZZLES FOR AUTOMATIC CUTTING MACHINES**

Order No	Cutting Thickness	Cutting Speed	Working Pressure		Gas consumption (lt/h)		
			Oxygen	Flam. Gas	Cutting Oxygen	Heating Oxygen	Flam. Gas
<b>45500P</b>	5-10 mm	750-680 mm/min.	7,0 bar	0,2 bar	1.100	1.180	310
<b>45501P</b>	10-20 mm	680-550 mm/min.	7,0 bar	0,2 bar	2.500	1.180	310
<b>45502P</b>	20-40 mm	550-450 mm/min.	7,0 bar	0,25 bar	5.400	1.370	360
<b>45503P</b>	40-60 mm	450-400 mm/min.	7,0 bar	0,3 bar	7.300	1.860	490
<b>45504P</b>	60-100 mm	400-260 mm/min.	7,0 bar	0,3 bar	10.000	1.860	490
<b>45505P</b>	100-150 mm	260-180 mm/min.	7,0 bar	0,3 bar	14.000	3.040	800
<b>45506P</b>	150-180 mm	180-100 mm/min.	7,0 bar	0,4 bar	13.000	3.140	890



**OXYGEN MANOMETERS**

Order No	Manometer Scale	Max Pressure	Flow Diameter	Connection Size
<b>51315</b>	0-315 bar	0-230 bar	Ø 63	G 1/4"
<b>51016</b>	0-16 bar	0-10 bar		



**51315**

**51016**

**ACETYLENE MANOMETERS**

Order No	Manometer Scale	Max Pressure	Flow Diameter	Connection Size
<b>51140</b>	0-40 bar	0-25 bar	Ø 63	G 1/4"
<b>51102</b>	0-2,5 bar	0-1,5 bar		



**51140**

**51102**

**NITROGEN MANOMETERS**

Order No	Manometer Scale	Max Pressure	Flow Diameter	Connection Size
<b>53315</b>	0-315 bar	0-230 bar	Ø 63	G 1/4"
<b>53006</b>	0-6 bar	0-4 bar		



**53315**

**53006**

**ARGON-CO<sub>2</sub> MANOMETERS**

Order No	Manometer Scale	Max Pressure		Flow Diameter	Connection Size
		Argon	CO <sub>2</sub>		
59315	0-315 bar	0-230 bar		Ø 63	G 1/4"
59032	32 l/dk.	0-21 l/dk.			

**PROPANE MANOMETERS**

Order No	Manometer Scale	Max Pressure	Flow Diameter	Connection Size
<b>51202</b>	0-2,5 bar	0-1,5 bar	Ø 63	G 1/4"

**TEST FLOWMETER**

Order No	Description
<b>FM25</b>	Test Flowmeter Argon - CO <sub>2</sub>



**MANOMETERS**

Order No	Manometer Scale	Max Pressure	Flow Diameter	Connection Size
<b>59012-50</b>	0-12 l/dk.	0-12 l/dk.	Ø 50	G 1/8"
<b>51140-50</b>	0-40 bar	0-25 bar		
<b>51315-50</b>	0-315 bar	0-230 bar		
<b>51102-50</b>	0-2,5 bar	0-1,5 bar		
<b>51006-50</b>	0-6 bar	0- 4 bar		




**51102-50**

**51140-50**

**59012-50**

**51315-50**

SPARE PARTS AND ACCESSORIES	
Order No	Specilities
Y512	Plastic Manometer Guard (Orange)
Y532	Plastic Monometer Guard (Blue)
Y533	Plastic Monometer Guard (Red)
Y534	Plastic Monometer Guard (Grey)
Y542	Plastic Monometer Guard (Blue)
Y543	Plastic Monometer Guard (Red)
Y544	Plastic Monometer Guard (Grey)
1014	Oxy-Welding Goggle (Polycarbonat Lenses) 
1012	Spark lighter
10121	Spark Lighter Flint
1010	Nozzle Cleaner
1000	Cylinder Adapter
1001	Cylinder Adapter
1003	Cylinder Adapter (For 5120)
HB085	Hose Clamp
H0601	Oxygen Welding Hose 6 mm EN ISO 3821
H0611	Acetylene Welding Hose 6 mm EN ISO 3821
H0801	Oxygen Welding Hose 8 mm EN ISO 3821
H0811	Acetylene Welding Hose 8 mm EN ISO 3821
H0620	Propane Welding Hose 6 mm EN ISO 3821
H0820	Propane Welding Hose 8 mm EN ISO 3822
H0621	LPG Hose 6 mm
H0821	LPG Hose 8 mm
H0831	Oxygen - Acetylene Welding Hose 8 mm EN ISO 3822
Y510	CO <sub>2</sub> Gas Heater - 220 V / 80 W



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