



SHINHUNG IND. CO., LTD.

MANUFACTURER OF GAS APPARATUS



**MANUFACTURER OF
GAS WELDING &
CUTTING EQUIPMENT**

- GAS CUTTING TORCH
- GAS WELDING, HEATING TORCH
- GAS REGULATOR

- FLASHBACK ARRESTOR
- GAS NOZZLE
- SHIPBUILDING EQUIPMENT

WE GOT EVERYTHING YOU WANT!

CEO GREETINGS

Shinhung was established in 1957 and for the past 60 years, we have progressed into a specialized company for gas related products like gas-cutting torch, pressure regulator, and flashback arrestor.

We do not settle for the present as we work towards transformation and reformation and we are striving to research and develop special products like shipbuilding materials and expand our range to all fields like shipbuilding, steel, and construction industries and building a cornerstone in order for reformation in the 100-year period.

Through technical and quality innovation, we will do our best so that we can offer our customers products that are fully equipped with competence such as KS Q ISO 9001:2015/ISO 9001:2015 certification and also provide the best customer satisfaction.

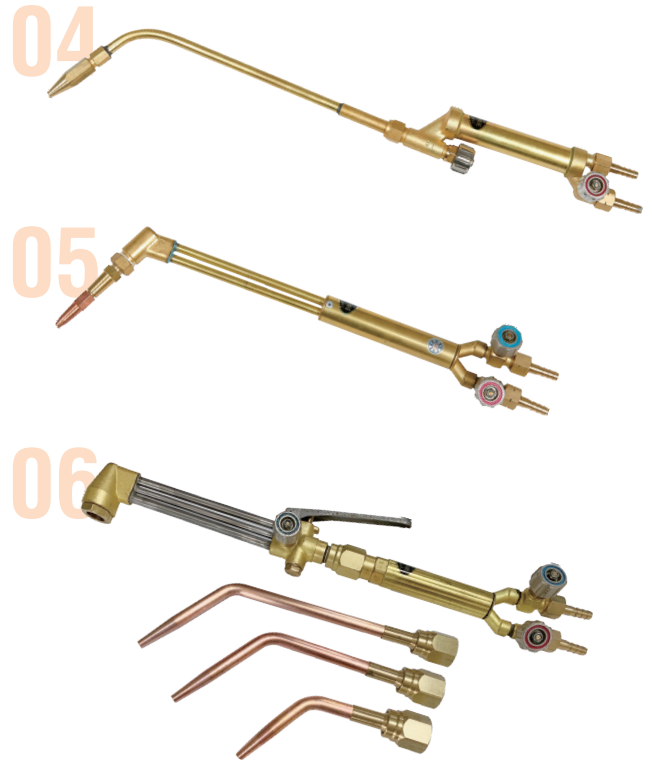
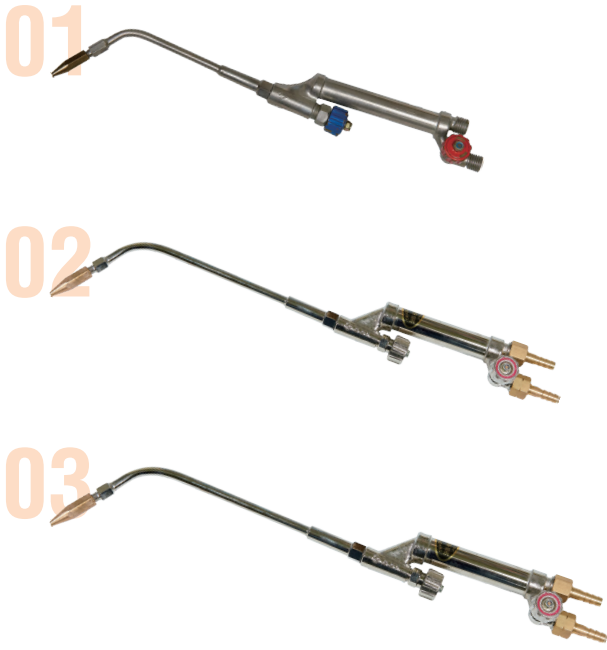
Also, based on our long experiences and excellent technical skills, we assure our customers that we will stand as a leading company.

Thank you.





WELDING TORCH



01 SH100
Mini Welding Torch

| Tip No. | Welding Capacity | Gas Pressure(Mpa) | |
|---------|------------------|-------------------|----------|
| | | O ₂ | LPG |
| 10 | Thickness Plate | 0.05~ 0.08 | 0.01 up |
| 16 | Thickness Plate | | 0.01 up |
| 25 | Thickness Plate | | 0.015 up |
| 40 | 0.4~1.0 | | 0.02 up |

Length : 270mm / Weight : 260g

02 SH101
Small Type Welding Torch

| Tip No. | Welding Capacity | Gas Pressure(Mpa) | |
|---------|------------------|-------------------|-------------|
| | | O ₂ | LPG |
| 50 | 0.5~0.7 | 0.2 | 0.02 ~ 0.03 |
| 70 | 0.7~1.0 | | |
| 100 | 1.0~1.4 | | |
| 140 | 1.4~2.0 | | |
| 200 | 2.0~2.5 | | |

Length : 350mm / Weight : 410g

03 SH102
Middle Type Welding Torch

| Tip No. | Welding Capacity | Gas Pressure(Mpa) | |
|---------|------------------|-------------------|-----------|
| | | O ₂ | LPG |
| 200 | 2.0~2.3 | 0.3 | 0.02~0.03 |
| 235 | 2.3~2.5 | | |
| 250 | 2.5~3.2 | | |
| 315 | 3.2~4.0 | | |
| 400 | 4.0~4.5 | | |
| 450 | 4.5~5.0 | | |
| 500 | 5.0~6.0 | | |

Length : 450mm / Weight : 420g

04 SH103
Large Type Welding Torch

| Tip No. | Welding Capacity | Gas Pressure(Mpa) | |
|---------|------------------|-------------------|------|
| | | O ₂ | LPG |
| 250 | 2.5~3.2 | 0.3 | 0.03 |
| 315 | 3.2~4.0 | | |
| 400 | 4.0~5.0 | | |
| 500 | 5.0~6.3 | | |
| 630 | 6.3~8.0 | 0.4 | |
| 800 | 8.0~10 | | |
| 1000 | 10~12 | | |

Length : 550mm / Weight : 680g

05 SH308
Medium Pressure Welding Torch (A1)

| Welding Tip | Welding Capacity | Gas Pressure(Mpa) | |
|-------------|------------------|-------------------|---------|
| | | O ₂ | LPG |
| 3 Pieces | 0.5~8 | 1~4.5 | 0.1~0.3 |

Length : 360mm / Weight : 480g

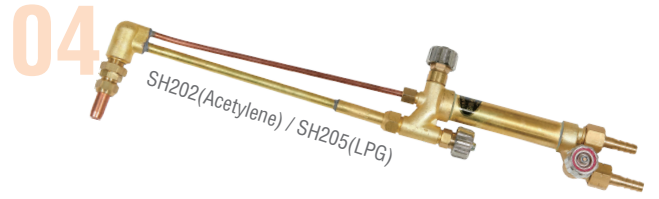
06 SH307
Medium Pressure Welding & Cutting Torch

| Tip No. | | Capacity | |
|---------|---------|-------------|-------------|
| Welding | Cutting | Welding(mm) | Cutting(mm) |
| 4 | 1 | 0.5~2.5 | 5~50 |
| 5 | 2 | | |
| 6 | 3 | | |

Length : 435mm / Weight : 2,050g



CUTTING & STRAIGHT LINE TORCH



01 SH201, 203 Middle Type Cutting Torch for Acetylene / LPG

| Type | Model | Tip No. | Cutting Capacity | Gas Pressure(Mpa) | |
|------|-------|---------|------------------|-------------------|------|
| | | | | O ₂ | LPG |
| LPG | SH203 | 1 | 3~10 | 0.2 | 0.03 |
| | | 2 | 10~20 | 0.25 | |
| | | 3 | 20~30 | 0.3 | |

Length : 430mm / Weight : 600g

Acetylene cutting torch needs to be customized!
Do not mix LPG and AC gas!

04 SH202, 205 Large Type LPG Cutting Torch for Acetylene / LPG

| Type | Model | Tip No. | Cutting Capacity | Gas Pressure(Mpa) | |
|------|-------|---------|------------------|-------------------|------|
| | | | | O ₂ | LPG |
| LPG | SH205 | 1 | 3~15 | 0.3 | 0.04 |
| | | 2 | 15~40 | | |
| | | 3 | 40~80 | | |

Length : 520mm / Weight : 840g

Acetylene cutting torch needs to be customized!
Do not mix LPG and AC gas!

02 SH208 Middle Type Straight Line Torch

| 7.5pt | Cutting Capacity | Gas Pressure(Mpa) | |
|-------|------------------|-------------------|------|
| | | O ₂ | LPG |
| 1 | 1~5 | 0.2 | 0.03 |
| 2 | 5~15 | 0.25 | |
| 3 | 15~30 | 0.3 | |

Length : 500mm / Weight : 580g

05 SH209 Large Type Straight Line Torch

| Tip No. | Cutting Capacity | Gas Pressure(Mpa) | |
|---------|------------------|-------------------|------|
| | | O ₂ | LPG |
| 1 | 1~10 | 0.3 | 0.04 |
| 2 | 10~25 | | |
| 3 | 50~100 | | |

Length : 600mm / Weight : 840g

03 SH206 Middle Type Welding / Cutting Torch

| Welding Tip | Cutting Tip | Capacity |
|-------------|-------------|--|
| 7 Pieces | 3 Pieces | Same Capacity of Middle type Welding & Cutting Torch |

Length : 430mm / Weight : 670g

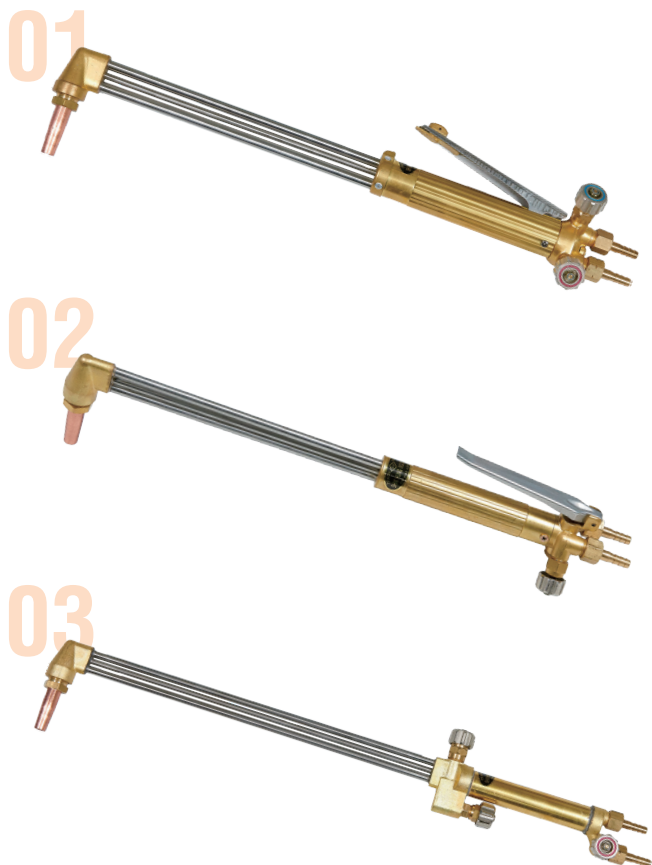
06 SH207 Large Type Welding / Cutting Torch

| Welding Tip | Cutting Capacity | Capacity |
|-------------|------------------|---|
| 7 Pieces | 3 Pieces | Same Capacity of Large type Welding & Cutting Torch |

Length : 520mm / Weight : 1,050g



MEDIUM PRESSURE CUTTING & HEATING TORCH



01 SH313
Medium Pressure Cutting Torch

| Tip No. | Cutting Capacity | Oxygen Pressure (Mpa) | LPG Pressure (Mpa) |
|---------|------------------|-----------------------|--------------------|
| 1 | 5~15 | 0.2~0.3 | 0.02 |
| 2 | 10~30 | 0.3~0.4 | 0.025 |
| 3 | 20~60 | 0.3~0.5 | 0.03 |

Length : 500mm / Weight : 1,350g

02 SH315
Medium Pressure Cutting Torch

| Tip No. | Cutting Capacity | Oxygen Pressure (Mpa) | LPG Pressure (Mpa) |
|---------|------------------|-----------------------|--------------------|
| 1 | 5~15 | 0.2~0.3 | 0.02 |
| 2 | 10~30 | 0.3~0.4 | 0.025 |
| 3 | 20~60 | 0.3~0.5 | 0.03 |

Length : 480mm / Weight : 1,100g

03 SH316
Medium Pressure Cutting Torch

| Tip No. | Cutting Capacity | Oxygen Pressure (Mpa) | LPG Pressure (Mpa) |
|---------|------------------|-----------------------|--------------------|
| 1 | 5~15 | 0.2~0.3 | 0.02 |
| 2 | 10~30 | 0.3~0.4 | 0.025 |
| 3 | 20~60 | 0.3~0.5 | 0.03 |

Length : 630mm / Weight : 1,100g

04 SH309
Line Heating Torch

| Tip No. | Length (mm) | Weight (g) | O ₂ (Mpa) | LPG (Mpa) |
|-------------|-------------|------------|----------------------|-----------|
| 1,000~3,000 | 740~1,000 | 640~960 | 0.4~0.8 | 0.02~0.08 |

'SH309-L' is light weight type.
This relieves fatigue in field work!

05 SH305
Two-Flame Heating Torch

| Tip No. | Length (mm) | Weight (g) | Gas Pressure(Mpa) | |
|----------|-------------|------------|----------------------|-----------|
| | | | O ₂ (Mpa) | LPG(Mpa) |
| 250~3000 | 775 | 865 | 0.3~0.8 | 0.02~0.08 |

06 SH301
LPG Heating Torch

| Type | Tip No. | Length (mm) | Weight (g) | Gas Pressure (Mpa) | | Flow Quantity | |
|------|-------------|-------------|------------|--------------------|------|---------------|-----------------------|
| | | | | O ₂ | LPG | (LPG) L/H | (O ₂) L/H |
| A | 3,500~5,000 | 740 | 620 | 0.3~0.4 | 0.03 | 1,000~3,000 | 5,000~10,000 |
| B | 3,500~5,000 | 1,000 | 890 | 0.4~0.5 | 0.04 | 3,500~5,000 | 14,000~20,000 |



01



01 SH302
LPG Burner (One-Flame / Two-Flame)

| Length (mm) | Weight (g) | LPG (Mpa) | Flow Quantity | | Type |
|-------------|------------|-----------|---------------|--|-------------------|
| | | | LPG (Mpa) | | |
| 630 | 830 | 0.03 | 600 | | SH303 (One-Flame) |
| 630 | 1,145 | 0.03 | 600 | | SH302 (Two-Flame) |

02



02 SH317
TCM Burner

| Length (mm) | Weight (g) | Oxygen Pressure(Mpa) | LPG Pressure(Mpa) |
|-------------|------------|----------------------|-------------------|
| 800~1,400 | 6,200 | 1.2 | 0.3 |

03



03 SH301
C Type Heating Torch

| Length (mm) | Weight (g) | Gas Pressure (Mpa) | | Flow Quantity | |
|-------------|------------|--------------------|------|---------------|-----------------------|
| | | O ₂ | LPG | (LPG) L/H | (O ₂) L/H |
| 1,430 | 2,500 | 0.6~0.8 | 0.08 | 10,000~12,000 | 30,000~40,000 |

04



04 SH306
Scarfing Torch

| Length (mm) | Weight (g) | Scarfing Width (mm) | Kind of Tip | O ₂ (Mpa) | LPG (Mpa) |
|-------------|------------|---------------------|-------------|----------------------|-----------|
| 1,300 | 3,200 | 70~100 | 1 | 0.8~1.2 | 0.05~0.07 |

05



05 SH310S
Hand Cutter

| Tip No. | Cutting Capacity | Oxygen Pressure(Mpa) | Gas Pressure(Mpa) |
|---------|------------------|----------------------|-------------------|
| 2~10 | 100~400 | 0.6~1.2 | 0.04~0.07 |

Length : 1,100~1,800mm

06



06 SH310
Hand Cutter

| Tip No. | Cutting Capacity | Oxygen Pressure(Mpa) | Gas Pressure(Mpa) |
|---------|------------------|----------------------|-------------------|
| 7,8,9 | 200~600m/m | 0.8~1.2 | 0.05~0.08 |

Length : 1,100~1,800mm

07



07 SH312
Hand Cutter

| Tip No. | Cutting Capacity | Oxygen Pressure(Mpa) | Gas Pressure(Mpa) |
|---------|------------------|----------------------|-------------------|
| 7,8,9 | 200~600m/m | 0.8~1.2 | 0.05~0.08 |

Length : 1,800~3,500mm



2gauge / other screw type can be made!
Please request custom-made!

01



02



03



04



05



06



01 SH501
Regulator for Oxygen

| High Pressure Gauge (Mpa) | Low Pressure Gauge (Mpa) | Limits of Control (Mpa) | Flow Quantity (L/H) | Weight (g) |
|---------------------------|--------------------------|-------------------------|---------------------|------------|
| 25 | 2.5 | 0.3~1.0 | 62,000 | 1,260 |

04 SH505
Regulator for Acetylene (Clamp Type)

| High Pressure Gauge (Mpa) | Low Pressure Gauge (Mpa) | Limits of Control (Mpa) | Flow Quantity (L/H) | Weight (g) |
|---------------------------|--------------------------|-------------------------|---------------------|------------|
| 2.5 | 0.3 | 0.01~0.13 | 11,000 | 1,800 |

02 SH503
Regulator for Acetylene

| High Pressure Gauge (Mpa) | Low Pressure Gauge (Mpa) | Limits of Control (Mpa) | Flow Quantity (L/H) | Weight (g) |
|---------------------------|--------------------------|-------------------------|---------------------|------------|
| 2.5 | 0.3 | 0.01~0.13 | 11,000 | 1,240 |

05 SH801
Regulator for CO₂

| High Pressure Gauge (Mpa) | Flow Quantity | Heater Control Type | Weight (g) |
|---------------------------|---------------|---------------------|------------|
| 0.6 | Max 25L/min | 110V, 220V | 1,750 |

03 SH506
Regulator for LPG

| Pressure Gauge Limits (Mpa) | Limits of Control (Mpa) | Flow Quantity (L/H) | Weight (g) |
|-----------------------------|-------------------------|---------------------|------------|
| 0.3 | 0.01~0.1 | 15,000 | 1,165 |

06 SH802
Regulator for Argon

| High Pressure Gauge (Mpa) | Flow Quantity | Weight (g) |
|---------------------------|---------------|------------|
| 25 | Max 25L/min | 1,270 |



REGULATORS & FLASHBACK ARRESTOR

07



08

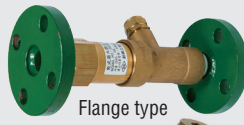
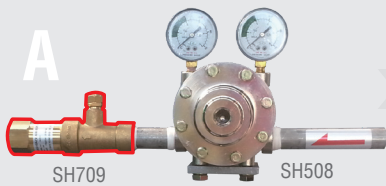


09

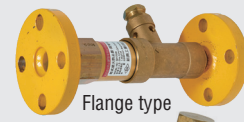
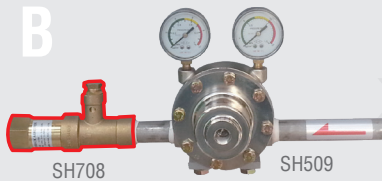


10

A



B



11



12



13



14



A~B

SH709, 708
Gas Piping Type

| Model | Gas | Usable Pressure (Mpa) | Flow Capacity (Nm ³ /h) | Type | Length (mm) | Weight (g) |
|-------|-----------------------|-----------------------|------------------------------------|---------------|-------------|------------|
| SH709 | Oxygen | 1.0 | 320 | 15A, 20A, 25A | 160 | 1,330 |
| SH708 | Acetylene / LPG / LNG | 0.15 | 20 | 15A, 20A, 25A | 160 | 1,300 |

07~08

SH508, 509
Large Type Regulator for Oxygen / LPG

| GAS | High Pressure Gauge (Mpa) | Low Pressure Gauge (Mpa) | Limits of Control (Mpa) | Flow Quantity (L/H) | Weight (g) |
|--------|---------------------------|--------------------------|-------------------------|---------------------|------------|
| Oxygen | 25 | 2.5 | 0.2~1.2 | 350,000 | 6,500 |
| LPG | 2.5 | 0.3 | 0.01~0.15 | 70,000 | 6,000 |

09~10

SH510, 511
Regulator for Oxygen / LPG

| GAS | High Pressure Gauge (Mpa) | Low Pressure Gauge (Mpa) | Limits of Control (Mpa) | Flow Quantity (L/H) | Weight (g) |
|---------------|---------------------------|--------------------------|-------------------------|---------------------|------------|
| Oxygen | 25 | 2.5 | 0.3~1.0 | 40,000 | 1,605 |
| Acetylene/LPG | 2.5 | 0.3 | 0.01~0.13 | 11,000 | 1,605 |

11~12

SH513-30, 513-70
Regulator for Nitrogen

| Model | High Pressure Gauge (Mpa) | Low Pressure Gauge (Mpa) | Limits of Control (Mpa) | Weight (g) |
|----------|---------------------------|--------------------------|-------------------------|------------|
| SH513-30 | 25 | 5 | Below 2.5 | 1,450 |
| SH513-70 | 25 | 25 | Below 6 | 1,750 |

13~14

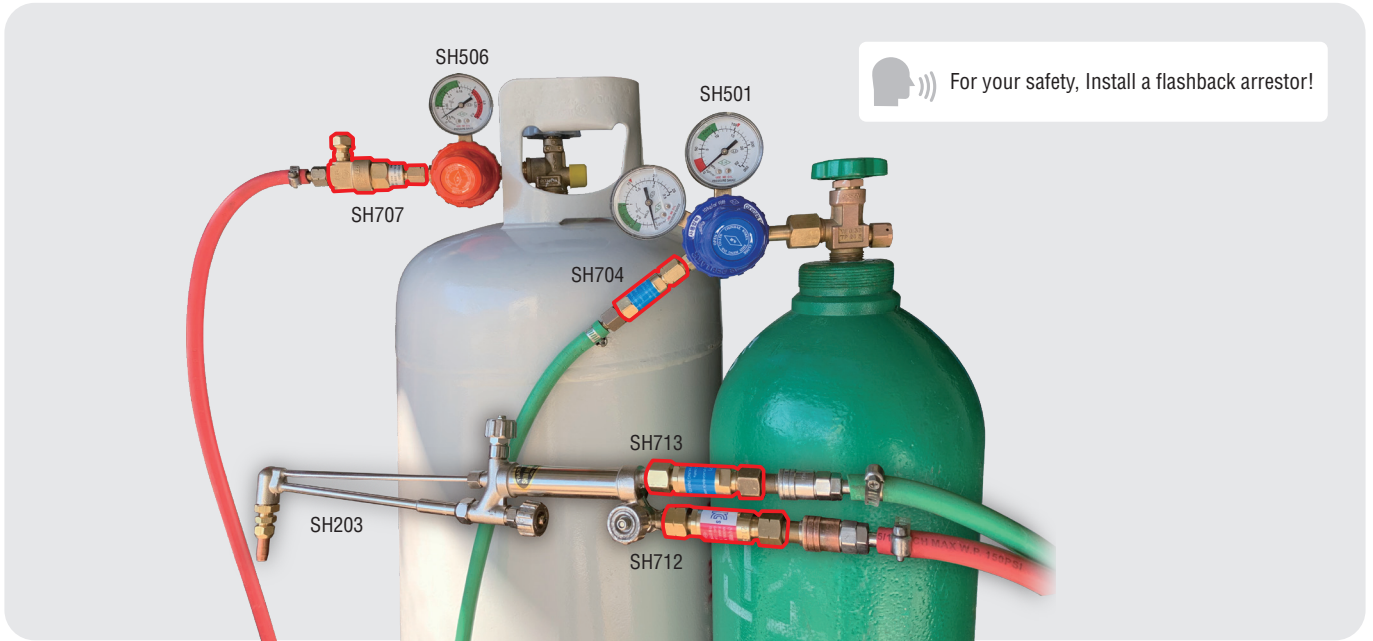
SH512, 513
Regulator for Oxygen / LPG

| GAS | Pressure (Mpa) | | Flow Quantity (L/H) | Weight (g) |
|---------------|-----------------------|-------------------|---------------------|------------|
| | Outlet Pressure Gauge | Limits of Control | | |
| Oxygen | 1.0 | 0.2~0.6 | 26,000 | 685 |
| Acetylene/LPG | 0.3 | 0.01~0.1 | 11,000 | 685 |



FLASHBACK ARRESTOR

For your safety, Install a flashback arrestor!



01~02 SH704, 706 Regulator Type

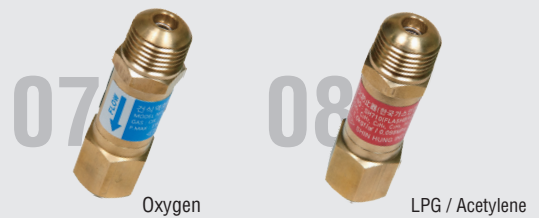
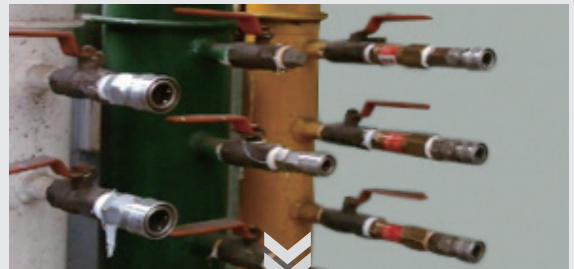
| Model | GAS | Usable Pressure (Mpa) | Flow Capacity (Nm ³ /h) | Length (mm) | Weight (g) |
|-------|--------|-----------------------|------------------------------------|-------------|------------|
| SH704 | Oxygen | 0.1~0.9 | 15 | 75 | 130 |
| SH706 | Oxygen | 0.1~0.9 | 25 | 105 | 400 |

03~04 SH705, 707 Regulator Type

| Model | GAS | Usable Pressure (Mpa) | Flow Capacity (Nm ³ /h) | Length (mm) | Weight (g) |
|-------|---------------|-----------------------|------------------------------------|-------------|------------|
| SH705 | LPG | 0.01~0.13 | 3 | 75 | 130 |
| SH707 | LPG/Acetylene | 0.01~0.13 | 5 | 105 | 440 |

05~06 SH712, 713 Torch Type

| Model | GAS | Usable Pressure (Mpa) | Flow Capacity (Nm ³ /h) | Length (mm) | Weight (g) |
|-------|---------|-----------------------|------------------------------------|-------------|------------|
| SH713 | Oxygen | 0.2~0.9 | 10 | 65 | 100 |
| SH712 | LPG/LNG | 0.02~0.1 | 2 | 65 | 100 |

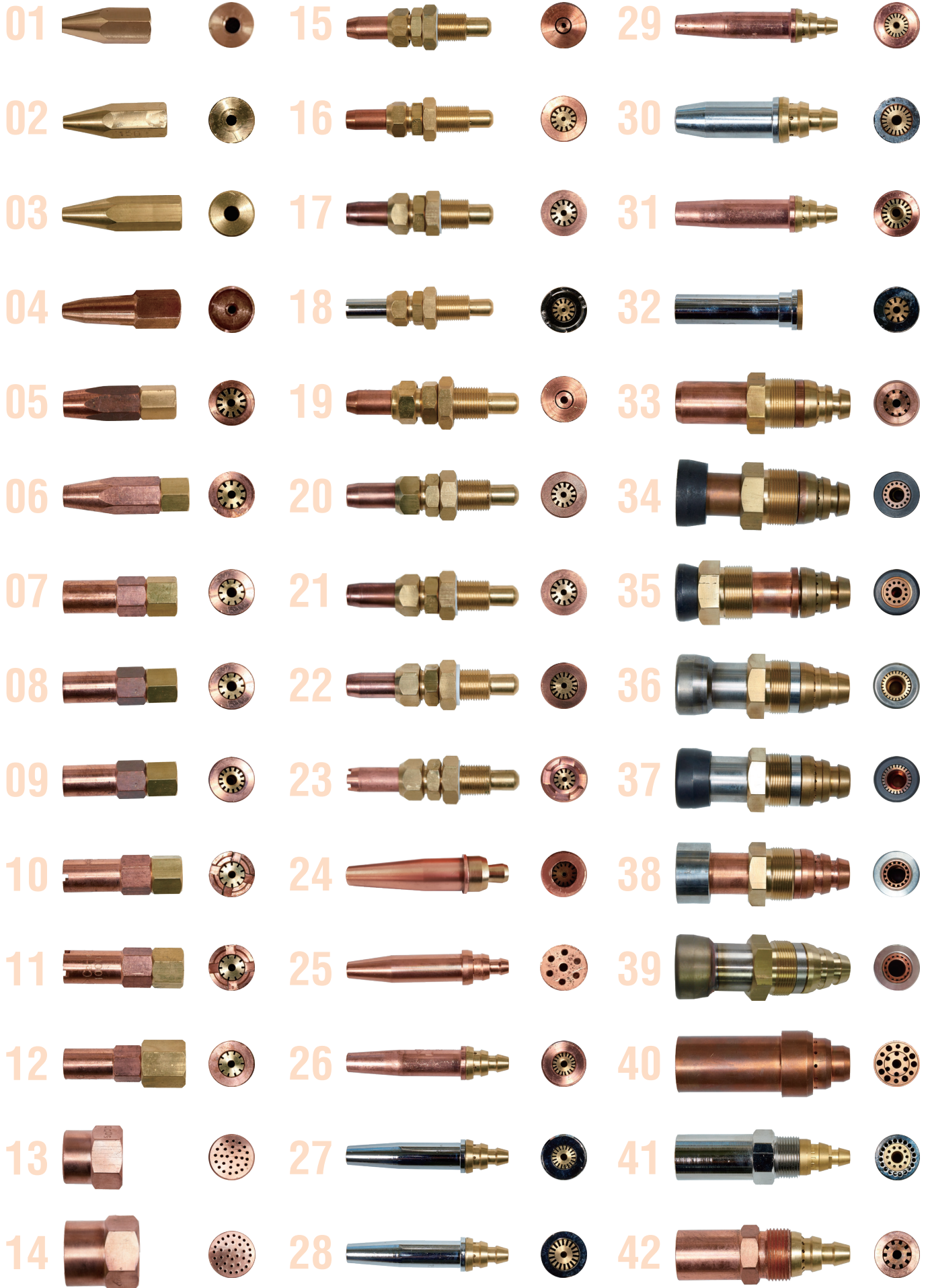


07~08 SH710, 711 Gas Manifold Type

| Model | Gas | Usable Pressure (Mpa) | Flow Capacity (Nm ³ /h) | Type | Length (mm) | Weight (g) |
|-------|---------------|-----------------------|------------------------------------|----------|-------------|------------|
| SH711 | Oxygen | 0.2~0.9 | 15 | 10A, 15A | 77 | 175 |
| SH710 | LPG/Acetylene | 0.02~0.1 | 3 | | 77 | 175 |



NOZZLE

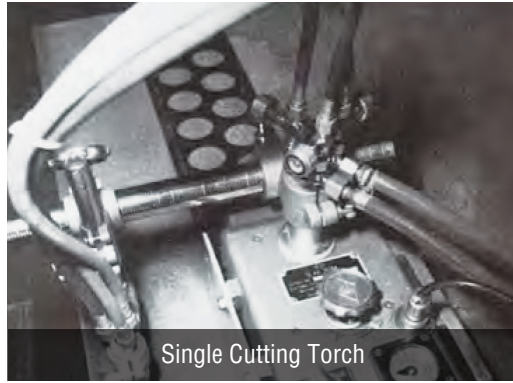


| | MODEL | NO | GAS | TORCH |
|----|-------------|--------------|---------------|--|
| 01 | SH101N | 50~200 | Acetylene/LPG | Small Type Welding Torch |
| 02 | SH102N | 200~500 | Acetylene/LPG | Middle Type Welding Torch |
| 03 | SH103N | 250~1,000 | Acetylene/LPG | Large Type Welding Torch |
| 04 | SH308N | 1~3 | Acetylene/LPG | Medium Pressure Welding Torch (A1) |
| 05 | SH102N-H | 200~500 | LPG | Middle Type Welding Torch |
| 06 | SH103N-H | 250~1,000 | LPG | Large Type Welding Torch, Heating Torch |
| 07 | SH309LN | 1,000~3,000 | LPG | Line Heating Torch (Lightweight Type) |
| 08 | SH309LN-1T | | Ethylene | |
| 09 | SH309LN-2T | | LNG | |
| 10 | SH309LN-F | 1,000~3,000 | LPG | Line Heating Torch (Lightweight Type, Stop Flashback Nozzle) |
| 11 | SH309LN-1TF | | Ethylene | |
| 12 | SH309LN-B | 1,000~3,000 | LPG | Line Heating Torch (Basic Type) |
| 13 | SH301N | 3,500~5,000 | LPG | Heating Torch - A/B (For Diffusion Heating) |
| 14 | SH301N-C | 7,500~10,000 | LPG | Heating Torch - C (For Diffusion Heating) |
| 15 | SH201N-3T | 1~3 | Acetylene | Middle Type Acetylene Cutting Torch |
| 16 | SH203N | 1~3 | LPG | Middle Type LPG Cutting Torch |
| 17 | SH203N-1T | | Ethylene | |
| 18 | SH203N-F | 1~3 | LPG | Middle Type LPG Cutting Torch (Stop Flashback Nozzle) |
| 19 | SH205N-3T | 1~3 | Acetylene | Large Type Acetylene Cutting Torch |
| 20 | SH205N | 1~3 | LPG | Large Type LPG Cutting Torch |
| 21 | SH205N-1T | | Ethylene | |

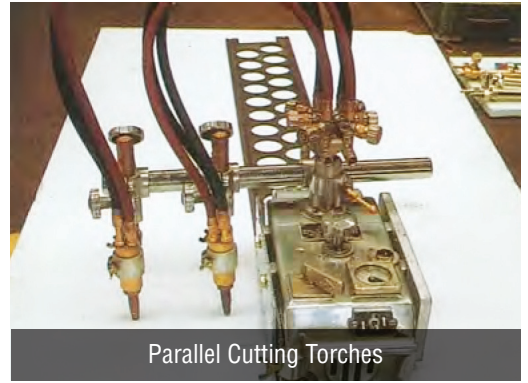
| | MODEL | NO | GAS | TORCH |
|----|-----------|------|-----------|---|
| 22 | SH205N-2T | 1~3 | LNG | Large Type LPG Cutting Torch |
| 23 | SH205N-F | 1~3 | LPG | Large Type LPG Cutting Torch (Stop Flashback Nozzle) |
| 24 | SH210N | 1~3 | LPG | Hand Cutting Torch |
| 25 | SH300N-3T | 0~5 | Acetylene | Medium Pressure Hand Cutting Torch, Automatic Cutting Machine |
| 26 | SH300N | 00~8 | LPG | Medium Pressure Hand Cutting Torch, Automatic Cutting Machine (Metal Finishing) |
| 27 | SH300N | 00~8 | LPG | Medium Pressure Hand Cutting Torch, Automatic Cutting Machine (Plating Type) |
| 28 | SH300N-2T | 0~8 | LNG | Medium Pressure Hand Cutting Torch, Automatic Cutting Machine |
| 29 | SH300N-1T | 00~8 | Ethylene | |
| 30 | SH300N-A | 00~8 | LPG | Medium Pressure Hand Cutting Torch, Automatic Cutting Machine |
| 31 | SH300N-G | 10 | LPG | Medium Pressure Cutting Torch (Gouging, Scarfing) |
| 32 | SH300NT | 00~5 | LPG | Medium Pressure Hand Cutting Torch, Automatic Cutting Machine |
| 33 | SH310N | 7~9 | LPG | Hand Cutter Torch |
| 34 | SH306N | - | LPG | Scarfing Torch (For Scarfing, Gouging) |
| 35 | | | | |
| 36 | | | | |
| 37 | | | | |
| 38 | | | | |
| 39 | | | | |
| 40 | SH317N | - | LPG | TCM Burner |
| 41 | SH910N | 7-9 | LPG | Medium Pressure Cutting Torch (Outmixing) |
| 42 | SH911N | 7-9 | LPG | Medium Pressure Cutting Torch |



Type of SH-20M

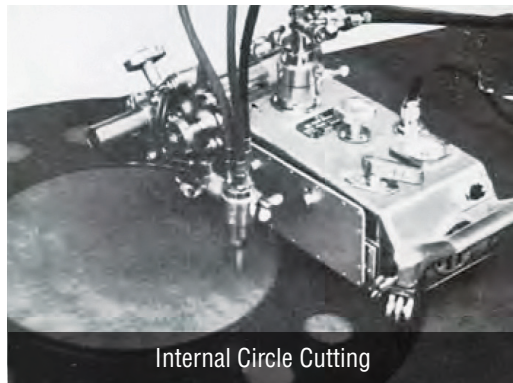


Single Cutting Torch

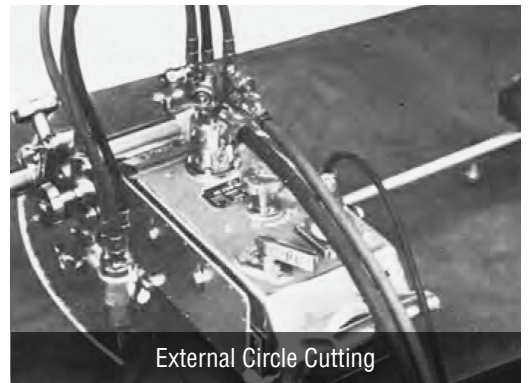


Parallel Cutting Torches

Functions of SH-20M



Internal Circle Cutting



External Circle Cutting

About SH-20M

The SH-20M is an automatic portable precision flame cutting machine, featuring easy automatic operation of high accuracy.

The compact, light-weight unit contains a built-in variable-speed driving mechanism and its heat resistant, rigid construction assures superb durability.

The advanced design provides ease of operation and highly accurate performance.

And it does not necessarily need skilled laborer to operate the machine.

A variety of optional accessories will expand the flexibility of this machine; in addition to straight cutting, it can perform parallel straight cutting, V.Y bevel cutting, X bevel cutting and circular cutting.

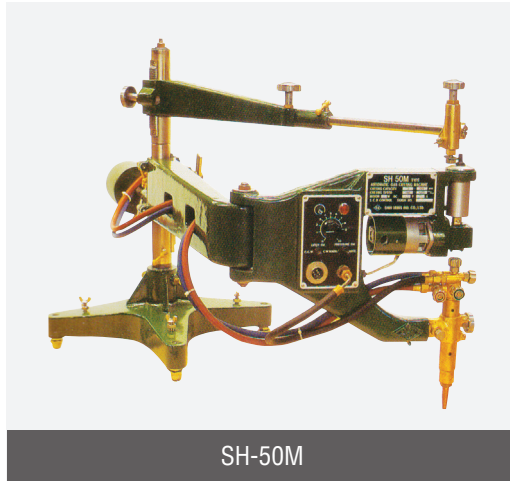
Features of the SH-20M

| | |
|----|---|
| 01 | Compact, light-weight unit drives stably and assures high accuracy. |
| 02 | Advanced design provides ease of operation and minimizes malfunction. |
| 03 | Heat resistant, rigid construction withstands severe working conditions. |
| 04 | Its wide range adjusts accurate cutting speed. |
| 05 | Light weight and simple structure assure perfect portability and easy handling. |

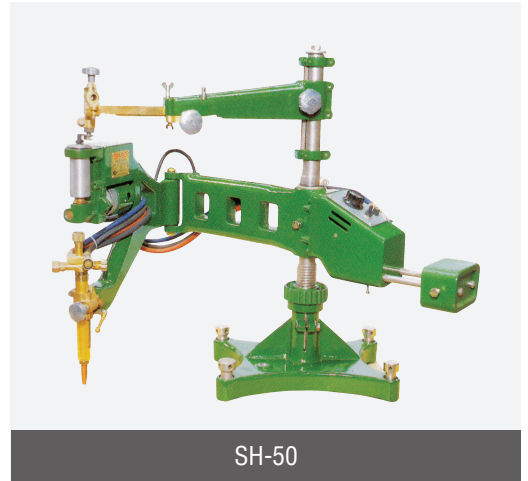


SHAPE CUTTING MACHINE

Type of SH-50



SH-50M



SH-50

About SH-50

This machine is an automatic portable flame shape cutting machine equipped with an automatic magnetic tracer and a powerful magnetic roller.

This model is ideally designed for the same repeat shape cutting and any different shape cutting, considering the maximum economy and efficiency.

It can be carried anywhere and its versatile performance meets your cutting requirement. An optional circle cutting attachment is available for easy circle cutting of any diameter range from 80mm to 600mm.

Dimension and Weight

Body

- Dimension: 800mm*450mm*1,500mm
- Weight: 33.0kg(72 lbs)

Balance

- Weight: 4.8kg(10,6 lbs)

Capability

| Plate Thickness (mm) | Speed Range (mm/min) | Cutting Precision (mm) | Diameter of Maximum Cutting Area (mm) | Width and Length of Cutting Rectangle (mm) | Motor |
|----------------------|----------------------|------------------------|---------------------------------------|--|--------------|
| 3~60 | 100~1,000 | ±0.4 | 1,500 | 300X900 | 100V.1.5W DC |
| | | | | 500X750 | |

Cutting Specification for Nozzle

| Tip No. | Plate Thickness (mm) | Cutting Speed (mm/min) | Gas Pressure | |
|---------|----------------------|------------------------|--------------------------------------|---|
| | | | (O ₂) kg/cm ² | (C ₂ H ₂) kg/cm ² |
| 1 | 5~15 | 350~600 | 2.5 | 0.2 |
| 2 | 15~25 | 400~550 | 2.5 | 0.2 |
| 3 | 25~50 | 200~350 | 3.0 | 0.2 |



CUTTING DATA

For Acetylene

| TIP NO. | Plate Thickness (mm) | Pressure(Mpa) | | Cutting speed (mm/min) | Consumption(ℓ/H) | | |
|---------|----------------------|---------------|-----------|------------------------|------------------|----------------|-----------|
| | | Oxygen | Acetylene | | Cutting Oxygen | Preheat Oxygen | Acetylene |
| 0 | 5~10 | 0.2 | 0.02 | 550~660 | 1,200 | 380 | 345 |
| 1 | 10~15 | 0.25 | 0.02 | 495~550 | 2,100 | 485 | 440 |
| 2 | 15~30 | 0.3 | 0.02 | 400~490 | 3,400 | 485 | 440 |
| 3 | 30~40 | 0.3 | 0.02 | 350~400 | 4,100 | 550 | 500 |
| 4 | 40~50 | 0.3 | 0.025 | 320~350 | 5,400 | 640 | 580 |
| 5 | 50~100 | 0.4 | 0.3 | 200~320 | 10,000 | 730 | 660 |
| 6 | 100~150 | 0.4 | 0.35 | 150~200 | 12,800 | 970 | 880 |
| 7 | 150~250 | 0.45 | 0.4 | 90~150 | 18,600 | 1,060 | 960 |
| 8 | 250~300 | 0.45 | 0.4 | 80~90 | 21,200 | 1,100 | 1,000 |

For LPG

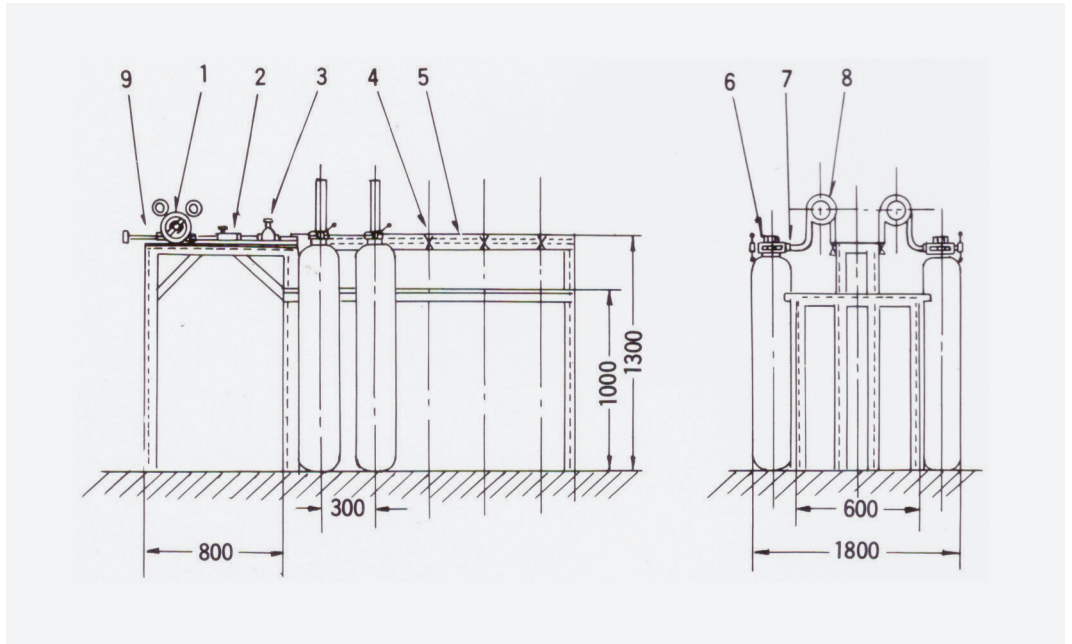
| TIP NO. | Plate Thickness (mm) | Pressure(Mpa) | | Cutting speed (mm/min) | Consumption(ℓ/H) | | |
|---------|----------------------|-----------------|----------|------------------------|------------------|----------------|-----------|
| | | Oxygen | Fuel Gas | | Cutting Oxygen | Preheat Oxygen | Acetylene |
| 0 | 5~10 | 0.2 (0.15~0.3) | 0.02 | 660~550 | 1,200 | 1,180 | 310 |
| 1 | 10~15 | 0.25 (0.2~0.35) | 0.02 | 550~490 | 2,100 | 1,180 | 310 |
| 2 | 15~30 | 0.3 (0.25~0.35) | 0.025 | 490~400 | 3,400 | 1,370 | 360 |
| 3 | 30~40 | 0.3 (0.25~0.4) | 0.025 | 400~350 | 4,100 | 1,370 | 360 |
| 4 | 40~50 | 0.35 (0.3~0.4) | 0.3 | 350~320 | 5,400 | 1,860 | 490 |
| 5 | 50~100 | 0.4 (0.3~0.45) | 0.3 | 320~220 | 10,000 | 1,860 | 490 |
| 6 | 100~150 | 0.4 (0.3~0.45) | 0.35 | 220~170 | 12,800 | 3,040 | 800 |
| 7 | 150~250 | 0.45 (0.4~0.55) | 0.35 | 170~100 | 18,600 | 3,040 | 800 |
| 8 | 250~300 | 0.45 (0.4~0.55) | 0.35 | 100~90 | 21,200 | 3,040 | 800 |

For Ethylene

| TIP NO. | Plate Thickness (mm) | Pressure(Mpa) | | Cutting speed (mm/min) | Consumption(ℓ/H) | | |
|---------|----------------------|---------------|-------------------------------|------------------------|------------------|----------------|-------------------------------|
| | | Oxygen | C ₂ H ₄ | | Cutting Oxygen | Preheat Oxygen | C ₂ H ₄ |
| 0 | 5~10 | 0.3 | 0.02 | 550~660 | 1,200 | 800 | 460 |
| 1 | 10~15 | 0.35 | 0.02 | 495~550 | 2,100 | 800 | 460 |
| 2 | 15~30 | 0.35 | 0.025 | 400~490 | 3,400 | 900 | 500 |
| 3 | 30~40 | 0.35 | 0.025 | 350~400 | 4,300 | 900 | 500 |
| 4 | 40~50 | 0.35 | 0.035 | 320~350 | 6,500 | 1,200 | 580 |
| 5 | 50~100 | 0.4 | 0.035 | 200~320 | 11,000 | 1,200 | 660 |
| 6 | 100~150 | 0.4 | 0.035 | 150~200 | 15,000 | 2,200 | 1,280 |
| 7 | 150~250 | 0.45 | 0.4 | 90~150 | 19,000 | 2,200 | 1,280 |
| 8 | 250~300 | 0.45 | 0.4 | 80~90 | 23,000 | 2,200 | 1,280 |

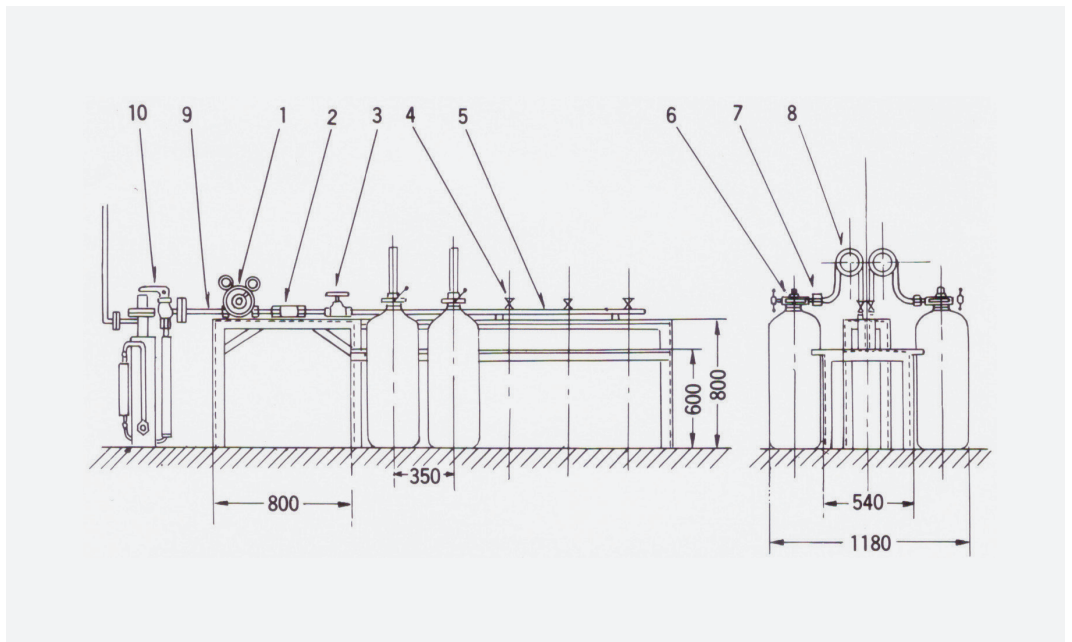


Oxygen Manifold



- | | | |
|--|---------------------------------|--------------------------------|
| 01 Primary Regulator High pressure gas to be reduced to 20kg/cm ² or less | 04 Neck Valve | 07 Inlet connection |
| 02 Strainer | 05 HP Main Pipe | 08 Pig-tail Pipe |
| 03 HP Cut-Off Valve | 06 Cylinder Fixing Frame | 09 Outlet pipe & Flange |

Gas Manifold



- | | |
|---|---|
| 01 Primary Regulator High pressure gas to be reduced to 1.0kg/cm ² or less | 06 Cylinder Fixing Frame |
| 02 Primary Flash-back Arrestor | 07 Secondary Flash-back Arrestor |
| 03 HP Cut-Off Valve | 08 Pig-tail Pipe |
| 04 Neck Valve | 09 LP Pipe with flange |
| 05 Main Pipe | 10 Station Flash-back Arrestor |

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