

WELDING EQUIPMENT

MIGATRONIC



Light & Medium Duty Inverters
230V / 440V
 For welding in steel & stainless steel

TRIODYN®



Heavy Duty Rotating Arc Welders
in 380V - 440V
 For work in marine environments
 and severe climatic conditions



Welding Accessories

- Torches •Oxygen/Acetylene Regulators • Welding Hoses • Welding Tips
- Welding Helmets•Welding Gloves •etc.

HAND CUTTING TORCH

PROFI Cut
Series L 8707



THE LIGHTWEIGHT HAND CUTTING TORCH
FOR
FLAME CUTTING AND FLAME GOUGING

PROFI Cut L 8707-A/PMY

The new range of **Profi Cut L** hand cutting torches for nozzle-mix (3-seat) nozzles continues the tradition of Messer torches with the quality and reliability which is synonymous with Messer.

Profi Cut L is a proven design incorporating the latest technical features necessary to meet the ever-changing applications and requirements of the hand cutting market.

Its ergonomic and modern functional design permits steady, effortless control by hand and its low and balanced weight enables the operator positive and comfortable working conditions for continuous operation.

The cutting and gouging torch range **Profi Cut L** is the low cost alternative for high quality value.



- Designed in accordance to the most current internationally recognized standards EN ISO, BSP, CGA and NFS.
- Manufactured under the quality management system of EN ISO 9001.
- 100% tested before despatch.
- Principally designed for general workshop cutting up to 300 mm / 12 inches capacity.
- Torch length of 460 mm / 18 inches ensures optimal balanced weight distribution increasing operator efficiency and comfort.
- 900 g / 2 lbs light weight enables controlled movements and makes it ideally suited for a wide range of industrial applications.
- 90° solid forged head withstands the toughest working conditions.
- Large cross-sectional areas enable high gas flow and ensures that the required oxygen and fuel gas flow rates, even on heavy duty applications with low gas pressures, are still maintained.
- In-plane parallel arranged stainless steel tubes and rugged design ensures maximum strength.
- Suitable for use with all types of fuel gases simply by changing the cutting nozzle.
- Adjustable gland packed gas valves allow precise and sensitive adjusting as well as accurate control of the flame.
- Colour coded adjusting valves for easy identification.
- Top mounted stainless steel lever with the benefit of a unique cutting oxygen flow valve operated by the cutting lever acts indirectly to bring in the oxygen stream. This important features gives a true “bleed” characteristic to create splash free starts and progressive, controlled piercing and the smoothest possible cutting conditions.
- Modular design reduces maintenance cost and downtime.

Model	Part No.	Standard	Gas Service	Cutting Range [mm]/[inch]	Oxygen/ Fuel Gas Ident. Colour	Nozzle Connection	Inlet Connection Oxygen	Inlet Connection Fuel Gas
L 8707E	716.06126	DIN	A/PMYF	3-300 / 1/8-12	blue/red	Intern. 30°	G 1/4-RH(M)	G 3/8-LH(M)
L 8707B	716.06000	BSP	A/PMYF	3-300 / 1/8-12	blue/red	Intern. 30°	G 3/8-RH(M)	G 3/8-LH(M)
L 8707U	716.06001	CGA	A/PMYF	3-300 / 1/8-12	green/red	Intern. 30°	9/16"NF-RH(M)	9/16"NF-LH(M)
L 8707F	716.06002	NFE	A/PMYF	3-300 / 1/8-12	blue/red	Intern. 30°	M 16x1,5-RH(M)	M 16x1,5-LH(M)
L8707FG	716.06003	NFE	A/PMYF	3-300 / 1/8-12	blue/red	G 1	M 16x1,5-RH(M)	M 16x1,5-LH(M)
L 8707N	716.06133	NZ	A/PMYF	3-300 / 1/8-12	blue/red	Intern. 30°	5/8 UNF-RH(M)	5/8 UNF-LH(M)

MULTI-PURPOSE KIT

STARLIGHT KIT

Series *A*



MULTI-PURPOSE KIT
FOR
PPROFESSIONAL DEMANDS

STARLIGHT Kit *A*

The new **STARLIGHT Kit *A*** continues the tradition of Messer multi purpose kits with the quality and reliability which is synonymous with Messer. **STARLIGHT Kit *A*** is a proven design incorporating the latest technical features necessary to meet the ever-changing applications and requirements of multi purpose kits and offers a complete package of medium- duty welding, cutting and heating equipment and accessories for industrial and commercial use.

Its outfit, with accessory tips and nozzles, can perform a complete range of jobs including welding, brazing, soldering, heating, flame straightening, flame cutting and gouging.

STARLIGHT Kit *A* components are designed for welding up to 14 mm mm / 1/2 inches and cutting up to 75 mm or 225 mm/ 9 inches with larger capacity cutting nozzles.

The **STARLIGHT Kit *A*** is the low cost alternative for high quality value.



STARLIGHT Kit *A* contents:

- Torch handle type **STARLIGHT 1302**
- Set of nozzle cleaning drills
- Swaged welding tip size 0,2 - 0,5 mm
- Swaged welding tip size 0,5 - 1,0 mm
- Swaged welding tip size 1,0 - 2,0 mm
- Swaged welding tip size 2,0 - 4,0 mm
- Swaged welding tip size 4,0 - 6,0 mm
- Swaged welding tip size 6,0 - 9,0 mm
- Swaged welding tip size 9,0 - 14,0 mm
- Cutting attachment type **STARLIGHT 8702-A/PMY**
- Cutting nozzles type ANME size 1/32", 3 - 6 mm
- Cutting nozzles type ANME size 3/64", 6 - 20 mm
- Cutting nozzles type ANME size 1/16", 20 - 75 mm
- Protecting goggles class 5 A
- Pistol type spark lighter
- Rust protected torch wrench
- Torch carriage
- Hose nipple G 1/4/6,3 mm
- Hose nipple G 3/8/6,3 mm
- Hose nipple G 3/8/8,0 mm
- Hose nut G 1/4 RH
- Hose nut G 3/8 LH
- Operating instructions

Model	Part No.	Standard	Gas Service	Oxygen/ Fuel Gas Ident. Colour	Insert Connection Standard	Handle and Flashb. Arrestor Connection Oxygen	Handle and Flashb. Arrestor Connection Fuel Gas
STARLIGHT *A*	716.18036	DIN	Acetylene	blue/red	Messer	G 1/4-RH	G 3/8-LH

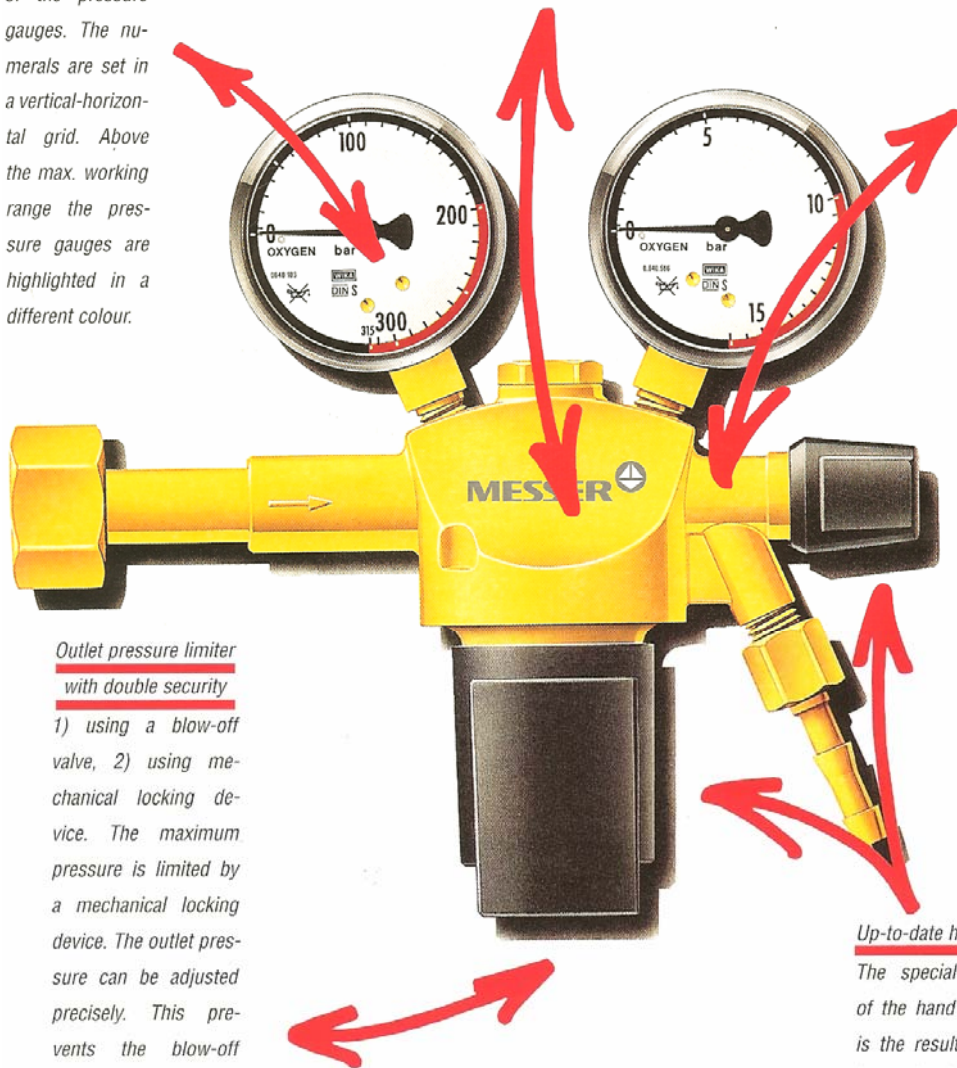
PRESSURE REGULATOR

PRESSURE REGULATOR CONSTANT 2000

Safety is a central point

Extremely high reliability through central micro filter
 As a major contribution to increased reliability, the filter has been placed centrally in front of the regulating device. This means that all moving parts are optimally protected against particles such as swarf and dust from screw-thread abrasion (patent applied for).

Complete control
 Excellent visibility of the pressure gauges. The numerals are set in a vertical-horizontal grid. Above the max. working range the pressure gauges are highlighted in a different colour.



Easy operation.
No crossed threads.
No jamming.
 Through the use of an unidirectional wear-resistant spindle which moves without turning (only in the required direction), crossed threads and jamming are eliminated completely. Moreover, the shut-off valve does not use a stuffing box, therefore reducing maintenance requirements.

Outlet pressure limiter with double security
 1) using a blow-off valve, 2) using mechanical locking device. The maximum pressure is limited by a mechanical locking device. The outlet pressure can be adjusted precisely. This prevents the blow-off pressure from being reached, should the valve be set incorrectly.

Up-to-date handling
 The special shape of the hand wheels is the result of the latest developments in ergonomics.

PRESSURE REGULATOR CONSTANT 2000

For welding and technical gases

Oxygen ¹⁾ Inlet pressure (P _i) [bar]	Flow rate (Vn) [m ³ /h] ²⁾ with outlet pressure (P _o) [bar]					Acetylene Inlet pressure (P _i) [bar]	Flow rate (Vn) [m ³ /h] ¹⁾ with outlet pressure (P _o) [bar]		
	1	2,5	4	10	20		0,5	1	1,2
40	15	30	40	50	60	18	5	6	8
20	15	20	25	30	—	10	4,5	5,5	6,5
10	15	15	15	—	—	4	3	4	5
5	10	10	10	—	—	2	1,5	2	3

1) for other gases, multiply the flow rate by the following factors:

Argon 0,90
Carbon dioxide 1,05
Compressed air 0,85
Hydrogen 4,00
Methane 1,40
Nitrogen 1,05

2) in standard condition

**Equipment
classification
as per
ISO 2503
and EN 585**

Type of gas	Chem. symbol	Inlet connections
Acetylene	C ₂ H ₂	Cylinder connection at inlet depending on type of gas suitable for gas cylinder valves as per local standard specifications, at outlet with detachable hose connections. Hose bores and connection sizes as per local standard specifications.
Ammonia	NH ₃	
Carbon dioxide	CO ₂	
Carbon monoxide	CO	
Compressed air	—	
Forming gas	—	
Freon	—	
Fuel gas mixtures (MAPP®)	—	
Hydrogen	H ₂	
Methane	CH ₄	
Nitrogen	N ₂	
Oxygen	O ₂	
Propane	C ₃ H ₈	
Rare gases, test gases	—	
Town gas	—	

Type of gas	Working pressure [bar] ³⁾ Single stage pressure regulators up to							
	1,5	2,5	10	20	50	100	150	200
Acetylene	•							
Ammonia ⁴⁾		•						
Carbon dioxide, rare gas			•	•	•	•	•	•
Carbon monoxide			•					
Compressed air			•	•	•	•	•	•
Freon		•	•					
Fuel gas mixtures (MAPP® etc.)		•						
Hydrogen, methane forming gas, town gas			•	•	•	•		
Nitrogen			•	•	•	•	•	•
Oxygen			•	•	•	•	•	•
Propane		•						
Test gases			•					

Details of pressure regulators for other technical gases available on request. 3) The pressures stated are gauge pressures. 4) Special design in steel.