



# The Whole World of Oxyfuel Technology



Flame Gouging

### The Original - the Source of Safety

The Adolf Messer GmbH, founded in 1898, developed the first oxyfuel torches for welding and cutting. The company became the worldwide known gas and welding technology manufacturer Messer Griesheim GmbH. In 1999 the welding and cutting technology activities were merged in the Messer Cutting & Welding GmbH, and have been integrated into the MBCHolding GmbH in 2000. Since February 2005 MEC Holding GmbH becomes part of the Messer world.

The many years of co-operation with the gas companies have given us high competency in the application of technical and high-purity gases. At the Frankfurt /Main location Messer Cutting & Welding combines many years of experience in welding and process technology with innovation, quality and reliability. The wide range of products offers solutions for almost every case of application. Messer quality stands out due to its economic efficiency and long service life.

It is our prior objective to create maximum benefit for the customer. We achieve this by using the knowledge of our customers requirements, high technical competency and flexible, innovative products. We take the highest quality measures for granted, already since 1991 all company processes have been subjected to quality monitoring in accordance with DIN ISO9001.



Rivet Head Cutting

### Oxyfuel Technology

This catalogue gives you an overview of our complete range of products for oxyfuel welding and cutting. In addition to this we offer extensive systems in the areas of heating technology and oxyfuel equipment for the steel industry. Our product portfolio is rounded off with proven Messer welding fillers, as well as MIG/MAG and TIG welding machines.

### Training Sessions

Detailed product and repair training means that our customers are always up to date on the latest state of the art technology. Information on our training sessions and dates can be obtained.

### Application Technology

Our specialist advisers are available with their professional knowledge and many years of experience for advice on application technology and to present our products in practical use.

# PROFI Cut H (EN ISO 5172)

The New Generation Nozzle Mixing Technology  
(Same Torch can be used for Acetylene/LPG/\*BMCG)



PROFI Cut H

## Absolute Safety

- High resistance to back fires

## Balanced Weight

- Comfortable working for continuous operation
- Torch weight 1050 gms., length 510mm

## Accurate

- Precise flow rates
- Heavy duty applications even at low cylinder pressures
- Cutting range : 3 - 300mm

## Tough

- 90° Solid Forged Brass Head

## Durable

- Rugged design ensures maximum strength

## Excellent Cutting Quality

- Reduced Post Cut Grinding Operation

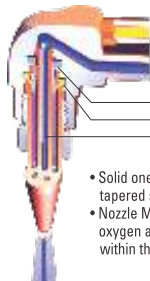
\* Note: Proficut cutting torch also available in following lengths  
( 800 mm, 1000 mm, 1200 mm & 1500 mm )

## The Powerful Hand Cutting Torch For Flame Cutting and Flame Gouging

THE SAFEST ARRANGEMENT FOR GAS CUTTING MILD STEEL

### ANME

NOZZLE MIXED FLAME CUTTING NOZZLES FOR  
ACETYLENE



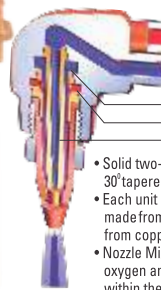
PRE-HEAT OXYGEN  
ACETYLENE  
CUTTING OXYGEN

- Solid one-piece nozzle with international 30° tapered seat.
- Nozzle Mixing Principle for mixing preheat oxygen and acetylene by 6 separate injectors within the nozzle.

THE SAFEST ARRANGEMENT FOR CUTTING MILD STEEL

### PNME

NOZZLE MIXED FLAME CUTTING NOZZLES FOR  
PROPANE (LPG), METHANE (NATURAL GAS) / \*BMCG



PRE-HEAT OXYGEN  
LPG / METHANE / \*BMCG  
CUTTING OXYGEN

- Solid two-piece nozzle with international 30° tapered seat.
- Each unit consisting of a cutting nozzle made from brass and heating cap made from copper.
- Nozzle Mixing Principle for mixing preheat oxygen and LPG by 3 separate injectors within the nozzle.



### SETTING TABLE FOR ANME CUTTING NOZZLES

ANME Nozzle	Workpiece Thickness		Product Code	Oxygen Pressure		Acetylene Pressure		Oxygen Consumption		Acetylene Consumption		Nozzle Clearance	
	(mm)	(Inches)		(bar)	(p.s.i.)	(bar)	(p.s.i.)	(m <sup>3</sup> /h)	(c.f./h)	(m <sup>3</sup> /h)	(c.f./h)	(mm)	(Inches)
1/32	3-6	1/8-1/4	71616122	2.0	29	Ⅵ 0.5	Ⅵ 8	1.2	42	0.5	17	3-5	0.1-0.2
3/64	6-20	1/4-3/4	71616123	2.5	37			2.8	84	0.6	21		
1/16	20-75	3/4-3	71616124	3.5	51			4.8	168	0.7	25		
5/64	75-125	3-5	71616125	4.0	58			7.8	273	0.8	28	5-10	0.2-0.4
3/32	125-175	3-7	71616126	4.5	65			10.2	357	0.9	32		
7/64	175-225	7-9	71616128	5.5	80			24.5	861	1.0	35		
1/8	225-300	9-12	71616127	6.5	94	Ⅵ 0.8	Ⅵ 12	30.1	1058	1.2	42	10-15	0.4-0.6

\*Select nozzle as per cutting thickness

### FUEL GAS PROPANE / BMCG PNME CUTTING NOZZLES

PNME Nozzle	Workpiece Thickness		Product Code	Oxygen Pressure		Propane Pressure		Oxygen Consumption		Propane consumption		Nozzle Clearance	
	(mm)	(Inches)		(bar)	(p.s.i.)	(bar)	(p.s.i.)	(m <sup>3</sup> /h)	(c.f./h)	(m <sup>3</sup> /h)	(c.f./h)	(mm)	(Inches)
1/32	3-6	1/8-1/4	71616140	2.0	29	Ⅵ 0.5	Ⅵ 8	2.2	77	0.4	14	3-5	0.1-0.2
3/64	6-20	1/4-3/4	71616141	3.0	44			4.3	151				
1/16	20-75	3/4-3	71616142	4.0	58			7.7	271				
5/64	75-125	3-5	71616143	4.5	65			11.6	408	0.5	18	5-10	0.2-0.4
3/32	125-175	5-7	71616144	5.0	73			17.8	626	0.6	21		
7/64	175-225	7-9	71616145	5.5	80			25.5	879	0.7	25		
1/8	225-300	9-12	71616146	6.0	87			34.1	1199	0.9	32		

\*Select nozzle as per cutting thickness

### GAS-MIXING GOUGING NOZZLES for fuel gas acetylene

Type	Type	Size	Product Code	Type	Type	Size	Product Code
	AGNM-S straight		1/8		71616230	AGNM-C curved	
		3/16	71616231		3/16		71616234
		1/4	71616232		1/4		71616235

### PROFI Cut H • HB8607B - Bottom lever: Product Code - 71607125

SAFEST DESIGN	LONG LIFE	GAS ECONOMY
<b>Features</b> Increased Nozzle Clearance High Precision Nozzle Design	<b>Benefits</b> • Minimal Nozzle Wear, hence Extended Nozzle Life • Modern Jet Design gives Economical Cutting Oxygen Consumption • Highly focussed and Stable Preheating flame, each time the torch is lighted. Gives High Speed Preheating resulting in saving both oxygen & fuel gas consumption	

# Pressure Regulators (EN ISO 2503)

Reliable, Versatile, Compact & Internationally Proven

## Save Gases by Using Facility to Lock Pressure & Flow



### S.S. Sintered Central Micro Filter

- No contamination of Valve Seat
- No gas leakages

### Maintenance Free

- Thick NBR diaphragm
- Supported by large Backup Plate

### Accurate control

- Minimum pressure fluctuation
- High flow rates even at low cylinder pressures

### High Operator Safety

- Pressure relief valve

### Strong, Durable & Safe

- Forged brass body & housing cap
- Fire-retardant valve seat material

### Sintered Inlet Filter

- Prevents dust and contaminants from entering the regulator

## Heavy Duty Cylinder Pressure Regulators

### The Complete Range of Tornado Regulators

#### TORNADO HEAVY DUTY PRESSURE REGULATOR WITH OUTLET PRESSURE GAUGE

TORNADO Type	Standard	Gas Type	Inlet Pressure	Outlet Pressure	Product Code
R/B-O 200/10	BSP	Oxygen O <sub>2</sub>	230 bar / 3335 psi	10 bar / 145 psi	77051868
R/B-A 25/1.5	BSP	Acetylene	25 bar / 360 psi	1.5 bar / 22 psi	77051870
R/UB-P 25/2.5	BSP	LPG/BMCG/Propane	25 bar / 360 psi	2.5 bar / 37 psi	77053941*
R/B-H 200/10	BSP	Hydrogen H <sub>2</sub>	230 bar / 3335 psi	10 bar / 145 psi	77051874
R/B-N 200/10	BSP	Nitrogen N <sub>2</sub>	230 bar / 3335 psi	10 bar / 145 psi	77051880
R/B-He 200/10	BSP	Helium He	230 bar / 3335 psi	10 bar / 145 psi	77051882
R/B-AR 200/10	BSP	Argon	230 bar / 3335 psi	10 bar / 145 psi	77051807

With unique pressure locking facility

#### TORNADO HEAVY DUTY PRESSURE REGULATOR WITH OUTLET FLOW GAUGE

TORNADO Type	Standard	Gas Type	Inlet Pressure	Outlet Flow	Product Code
RSFG/B-Ar	BSP	Ar Argon	230 bar / 3335 psi	32 L/min	77052018
RSFG/B-C	BSP	CO <sub>2</sub>	100 bar / 1450 psi	32 L/min	77052030

With unique flow locking facility







### HEAVY DUTY CYLINDER PRESSURE REGULATORS WITH OUTLET SINGLE FLOW-METER

TORNADO Type	Standard	Gas Type	Inlet Pressure	Outlet Flow	Product Code
RFM/B-Ar	BSP	Ar Argon	230 bar / 3335 psi	1x30 L/min	77052128
RFM/B-C	BSP	CO <sub>2</sub>	100 bar / 1450 psi	1x30 L/min	77052134
RFM/B-N	BSP	N <sub>2</sub> Nitrogen	230 bar / 3335 psi	1x30 L/min	77052140
RFM/B-H	BSP	H <sub>2</sub> Hydrogen	230 bar / 3335 psi	1x30 L/min	77052146

### TORNADO LILLIPUT SERIES REGULATORS



TORNADO Type	Standard	Gas Type	Inlet Pressure	Outlet Flow	Product Code
W/B LILLIPUT- A+C	BSP	Ar + CO <sub>2</sub>	230 bar / 3335 psi	32 L/min	77053951
W/B LILLIPUT - A	BSP	Ar	230 bar / 3335 psi	32 L/min	77053952
W/B LILLIPUT - C	BSP	CO <sub>2</sub>	230 bar / 3335 psi	32 L/min	77053953

### TORNADO CO<sub>2</sub> REGULATOR PREHEATER



TORNADO Type	Standard	Gas Type	Inlet Pressure	Outlet Flow	Product Code
RSFG/B-C	BSP	CO <sub>2</sub>	100 bar / 1450 psi	32 L/min	77026098
RFME/B-C	BSP	CO <sub>2</sub>	100 bar / 1450 psi	32 L/min	77052900

### FLOWMETER



TORNADO Type	Standard	Gas Type	Inlet Pressure	Outlet Flow	Product Code
FMRN/B-AR/C	BSP	Ar + C	230 bar / 3335 psi	32 L/min	77052924MOD
FM-95 / B-X AR/CO2	BSP	Ar + C	100 bar / 1450 psi	32 L/min	77050659

### TYPHOON PRESSURE REGULATOR FOR GENERAL APPLICATION



Typhoon Type	Standard	Gas Type	Inlet Pressure	Outlet Pressure	Product Code
B/S-O	BSP	Oxygen	230 bar / 3335 psi	10 bar / 145 psi	77021059
B/S-A	BSP	Acetylene	25 bar / 360 psi	1.5 bar / 22 psi	77021063
B/S-P	BSP	LPG / BMCG	25 bar / 360 psi	2.5 bar / 37 psi	77021071

### TYPHOON DOUBLE STAGE REGULATORS



TORNADO Type	Standard	Gas Type	Inlet Pressure	Outlet Pressure	Product Code
DL/B-ACETYLENE	BSP	Acetylene	25 bar / 360 psi	1.5 bar / 22 psi	77025081
DL/B-N2/AR	BSP	N <sub>2</sub> / Ar	230 bar / 3335 psi	10 bar / 145 psi	77025082
DL/B-O2	BSP	Oxygen O <sub>2</sub>	230 bar / 3335 psi	10 bar / 145 psi	77025083
DL/B-PROPANE	BSP	LPG/PROPANE	25 bar / 360 psi	2.5 bar / 37 psi	77025084

### TORNADO 300 REGULATORS - HIGH FLOW 0-250M<sup>3</sup> / Hr. 20 BAR OUTLET



TORNADO Type	Standard	Gas Type	Inlet Pressure	Outlet Pressure	Product Code
RST/B - O	BSP	OXYGEN	300 bar / 4350 psi	20 Bar	77053037
RST/B - AR	BSP	ARGON	300 bar / 4350 psi	20 Bar	77053103
RST/B - C	BSP	CO <sub>2</sub>	300 bar / 4350 psi	20 Bar	77053207
RST/B - N	BSP	NITROGEN	300 bar / 4350 psi	20 Bar	77053217
RSH/B - A	BSP	ACETYLENE	300 bar / 4350 psi	1.5 Bar	77053047
RSH/B - LPG	BSP	LPG/PROPANE	300 bar / 4350 psi	2.5 Bar	77053057

\*To be used with LPG / BMCG Cylinder Adapters

# FLASHBACK Arrestor (EN ISO 730, ISO 5175)

World Class Safety Equipment

## Safety you can rely on with our reputation behind it

Flashback arrestor are made as per EN 730, BAM approved & UL Certified.

### Filter

- Made from corrosion resistant steel

### Non-return Safety Valve

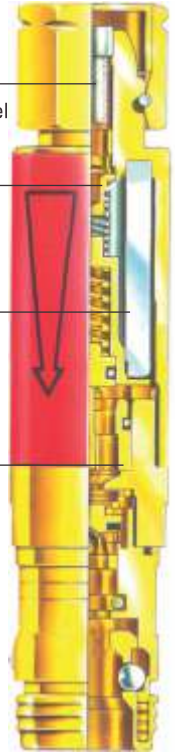
- Inhibits reverse gas flow

### Flame Arrestor

- Made from sintered stainless steel arrests flashbacks reliably

### Fire protection element

- It has a built in auto cut-out which automatically shuts off the gas supply



SIMAX 1"

DEMAX 5 1"



GT 1/4"

GG 3/8"

TT

DGN-DK 3/8"

DGN 3/8"

DG 91 N 3/8" & 1/2"

**Recommended For Heating, Brazing and Cutting Torch  
For Regulator End, Machine Cutting Torches &  
Gas Supply Lines**

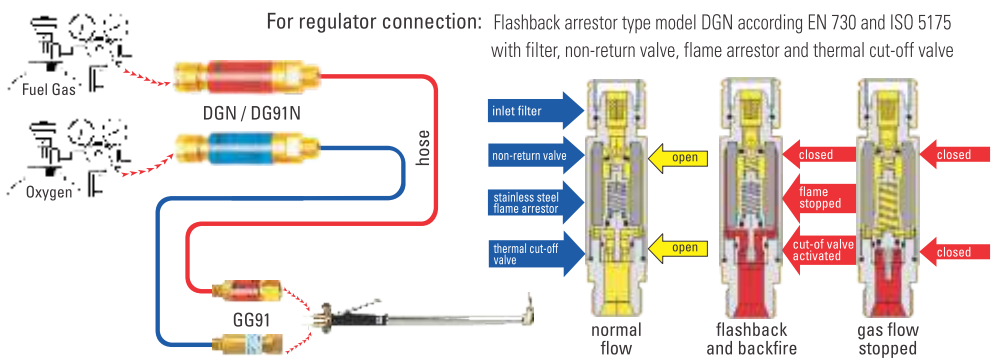


## The right connection for all gas applications

### FLASHBACK ARRESTOR PLACEMENT

### FLASHBACK ARRESTOR FUNCTIONING

For regulator connection: Flashback arrestor type model DGN according EN 730 and ISO 5175 with filter, non-return valve, flame arrestor and thermal cut-off valve



### FLASHBACK ARRESTORS FOR CUTTING HEATING AND BRAZING TORCHES

Model	Description	Connections	Product Code
DGN-Fuel	Flashback Arrestor Regulator side Fuel Gas (LPG / DA / BMCG)	G 3/8" LH	0463385
DGN-Oxy	Flashback Arrestor Regulator side Oxygen	G 3/8" RH	0463387
GG 91 Fuel	Flashback Arrestor Torch side Fuel Gas (LPG / DA / BMCG)	G 3/8" LH	0463388
GG 91 Oxy	Flashback Arrestor Torch side Oxygen	G 3/8" RH	0463390
GT Oxy	Flashback Arrestor Torch side Oxygen Gas	G 1/4" RH	0463393
GT Fuel	Flashback Arrestor Torch side Fuel Gas (LPG / DA / BMCG)	G 1/4" LH	0463393MODLH
DG 91N Fuel	Flashback Arrestor Regulator side Fuel Gas (LPG / DA / BMCG)	G 3/8" LH	0463829
DG 91N Oxy	Flashback Arrestor Regulator side Oxygen	G 3/8" RH	0463832
DG 91N Fuel	Flashback Arrestor Regulator side Fuel Gas (LPG / DA / BMCG)	G 1/2" LH	0463830
DG 91N Oxy	Flashback Arrestor Regulator side Oxygen	G 1/2" RH	0463833
Demax 5 Fuel	Flashback Arrestor For Mani Fold Fuel Gas	G 1" LH	0463840
Demax 5 Oxy	Flashback Arrestor For Mani Fold Fuel Oxygen	G 1" RH	0463841
Simax 3 Fuel	Flashback Arrestor For Mani Fold Fuel Gas	G 1" LH	0463842
Simax 3 Oxy	Flashback Arrestor For Mani Fold Fuel Oxygen	G 1" RH	0463843
Simax 5 Fuel	Flashback Arrestor For Mani Fold Fuel Gas	G 1" LH	0463844
Simax 5 Oxy	Flashback Arrestor For Mani Fold Fuel Oxygen	G 1" RH	0463845

### FLASHBACK ARRESTORS FOR MACHINE CUTTING TORCHES

Description	Connections	Product Code
Flashback arrestor for heating oxygen	G 1/4" RH	0647583
Flashback arrestor for cutting oxygen	G 3/8" RH	0647584
Flashback arrestor for fuel gas (LPG / DA / BMCG)	G 3/8" LH	0346364

### PVGD & PVHD testing M/c

- We provide testing & cleaning facility of FBA by Messer make PVGD & PVHD testing machines as per procedure laid by Messers germany.





### New Monoblock Valve

- For higher flow rates and precise adjustment.

### High Operational Safety

- Injector Mixing Principle Backfire & Backflow resistant

### High Gas Flow Rates

- Heavy duty applications

### Robust Construction

- Valve housing of the handpiece is made of brass Corrosion free & durable

### Balanced weight - Ergonomic design

- High productivity



## Heating, Welding, Brazing and Flame Straightening For All Fuel Gases






Starlight Heating Torches for Fuel Gas Acetylene & LPG

Starlight Handle	Type	Description		Connections	Product Code	Gas	
		1302 MB	Starlight Handle			BSP: G3 / 8RH-G3/8LH	71605976
	Size	O <sub>2</sub> -Consumption	Overall length approx.		Product Code tip complete	Product Code heating nozzle	Gas
Starlight Handle	FB5*	0.5 - 0.9 m <sup>3</sup> /h	430 mm		71651809	71600725	Acetylene
	HF12	5 - 12 m <sup>3</sup> /h	430 mm		71651722	71605646	LPG / BMCG / Propane


\*Special low sound nozzle - "Whisper"

### Star Heating Torches for Fuel Gas Acetylene & LPG


 Star Handle	Type	Description	Connections	Product Code	Gas	
	 FB-9	2020 MB	Star Handle	BSP: G3 / 8RH-G3 / 8LH	71607230	LPG - Propane / C2 H <sub>2</sub> - Acetylene / BMCG
 HF-14	Size	O <sub>2</sub> -Consumption	Overall length approx.	Product Code tip complete	Product Code heating nozzle	Gas
	FB9 <sup>o</sup>	3,1 - 5,5 m <sup>3</sup> /h	675 mm	71600759	71600779	Acetylene
	HF14	13 - 35 m <sup>3</sup> /h	720 mm	71605644	71605648	LPG / BMCG / Propane

\*Special low sound nozzle - "Whisper"


### MIXING TUBE WITH HAMMERED FINISH WELDING, BRAZING AND HEATING NOZZLE, CENTRAL FLAME OUTLET

 S-P	Size	O <sub>2</sub> -Consumption	Overall length approx.	Product Code tip complete	Product Code heating nozzle	Gas
		4	500 l/h	207 mm	71606494	71606484
	5	800 l/h	245 mm	71606495	71606485	LPG / BMCG / Propane
	6	1.250 l/h	266 mm	71606496	71606486	LPG / BMCG / Propane


### MIXING TUBE WITH HAMMERED FINISH WELDING, BRAZING AND HEATING NOZZLE, CENTRAL FLAME OUTLET

 S-A	Size	O <sub>2</sub> -Consumption	Overall length approx.	Product Code tip complete	Product Code heating nozzle	Gas
		4	500 l/h	4,0 - 6,0 mm	71605054	71605044
	5	800 l/h	6,0 - 9,0 mm	71605055	71605045	Acetylene
	6	1.250 l/h	9,0 - 14,0 mm	71605056	71605046	Acetylene


### STABILISED, CENTRAL FLAME OUTLET, NOZZLES REPLACEABLE

 A	Size	O <sub>2</sub> -Consumption	Overall length approx.	Product Code tip complete	Product Code heating nozzle	Gas
		7	1,2 - 4,2 m <sup>3</sup> /h	430 mm	71651805	24234710
	8	1,8 - 4,6 m <sup>3</sup> /h	580 mm	71651806	24234810	Acetylene

### STABILISED, CENTRAL FLAME OUTLET, NOZZLES REPLACEABLE

 P	Size	O <sub>2</sub> -Consumption	Overall length approx.	Product Code tip complete	Product Code heating nozzle	Gas
		8	2 - 6 m <sup>3</sup> /h	430 mm	71651713	71601234
	10	6 - 14 m <sup>3</sup> /h	580 mm	71651714	71601235	LPG / BMCG / Propane

### FLAME STRAIGHTENING TORCH

	Product Code	Product Description
	71606811	FLAME STRAIGHTENING TORCH Z3 A 4-6MM
71606813	FLAME STRAIGHTENING TORCH Z5 A 4-6MM	

SPARE NOZZLE (OF FLAME STRAIGHTENING TORCH) 24234410



### Operating Safety

- High resistance to back fires

### Accurate Flame Control

- By adjustable injector needle valve

### Slim Design

- Excellent torch handling

### Light Weight

- Total weight only 468 gms.

#### Torch Details :

Torch set ALLGAS 2003 \*A/PMYF\* for fuel gas Acetylene with :

5 acetylene nozzles size 25-A, 50-A, 75-A, 100-A and 150-A/2 acetylene nozzles 100-A & 150-A nozzle holder, hexagon nuts and nipples for hoses and operating instructions Product Code : 71651668



Torch set ALLGAS 2003 \*A/PMYF\* for fuel gas LPG/BMCG with :

5 LPG nozzles size 25-P, 50-P, 75-P, 100-P and 150-P / 2 LPG nozzle 100-P & 150-P nozzle holder, nuts and nipples for hoses and operating instructions Product Code : 71651669

Nozzle-spanner/nozzle-holder  
Product Code : 71651739

## Brazing, Heating and Welding For Acetylene / LPG Gas

#### Nozzle Details :

ALLGAS 2003 Nozzle Size / Type	Gas- service	Product Code	Welding Range [mm]	Operating Pressures		Flow Rates	
				Oxygen [bar]	Fuel Gas [bar]	Oxygen [L/h]	Fuel Gas [L/h]
	Acetylene	71651670	0.2 - 0.5	0.5 - 0.8	0.3	30 - 90	30 - 90
		71651671	0.5 - 0.8	0.8 - 1.0		40 - 130	40 - 130
		71651672	1.0 - 1.5	1.0 - 1.5		60 - 200	60 - 200
		71651673	1.5 - 2.0	1.5 - 2.0		80 - 250	80 - 250
		71651674	2.0 - 2.5	2.0 - 2.5		100 - 300	100 - 300
	LPG / BMCG (Propane)	71651675	0.2 - 0.5	0.5 - 0.8	0.2	30 - 90	1 - 25
		71651676	0.5 - 0.8	0.8 - 1.0		40 - 130	11 - 35
		71651677	1.0 - 1.5	1.0 - 1.5		60 - 200	16 - 55
		71651678	1.5 - 2.0	1.5 - 2.0		80 - 250	22 - 70
		71651679	2.0 - 2.5	2.0 - 2.5		100 - 300	27 - 83

# GAS Economizer (Saves Gas - Increases Productivity)



For Saving Oxygen, Fuel Gas, Time and Torch Wear

## Pilot Flame

- Easy restart of torch without resetting of flame



IGE Gas Economiser

## Easy Installation

- Can be fitted on any work bench or wall bracket



Gas Economiser for Minitherm



Electronic Gas Saver

It discontinues automatically the supply of oxygen and fuel gas to the torch when the torch is placed on the hook during the intervals between operations.

The flame does not require re-setting on resuming operations. When the torch is unhooked, the full gas flow supply is released and the previous mixing ratio is maintained.

Absolutely necessary whenever work involves frequent temporary stoppages; as in production brazing.

Greatly improves brazing efficiency & productivity and economy in gas consumption.

- 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 dispatch.
- Principally designed for general workshop welding, heating and brazing upto 3,5 bar / 51 psi oxygen pressure.
- Simple to fit to any work bench or wall bracket with angle mounting bracket supplied.

## Technical Data

Input Voltage	230V single phase 50Hz
Gas Type	Oxygen & Acetylene   Oxygen & LPG / BMCG
Colour	Orange / Blue
Application	Brazing / Heating Line
Ignition Off	3 ~ 5 Sec
Gas Saving	Gas due to Automatic On / Off gas supply
Input Power	20W

Gas Economizer Type	Product Code	Inlet/Outlet Connection Standard	Gas Service	Inlet Connection Oxygen	Inlet Connection Fuel Gas	Outlet Connection Oxygen	Outlet Connection Fuel Gas
IGE / B-A	71606431	BSP	Acetylene	G 3/8" RH (M)	G 3/8" LH (M)	G 3/8" RH (M)	G 3/8" LH (M)
IGE / B-P	71606436	BSP	LPG / BMCG	G 3/8" RH (M)	G 3/8" LH (M)	G 3/8" LH (M)	G 3/8" LH (M)
G/E FOR MINITHERM-A	71607014MOD	BSP	Acetylene	G 1/4" RH	G 3/8" LH (M)	G 1/4" LH (M)	G 3/8" LH (M)
G/E FOR MINITHERM-P	71607015MOD	BSP	LPG / BMCG	G 1/4" RH	G 3/8" LH (M)	G 1/4" LH (M)	G 3/8" LH (M)
G/E FOR MINITHERM-A*	71607025	BSP	Acetylene	G 1/4" RH	G 3/8" LH (M)	G 1/4" LH (M)	G 3/8" LH (M)
G/E FOR MINITHERM-P*	71607026	BSP	LPG / BMCG	G 1/4" RH	G 3/8" LH (M)	G 1/4" LH (M)	G 3/8" LH (M)
Electronic	80830179	BSP	Acetylene / LPG	G 3/8" RH (M)	G 3/8" LH (M)	G 3/8" RH (M)	G 3/8" LH (M)

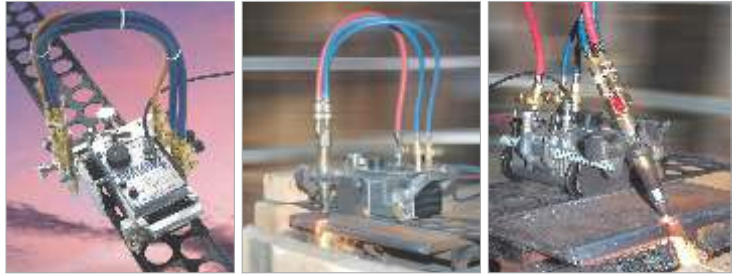
\* Minitherm Economizer with **Flame Monitoring** as additional Safety Feature.

# PORTACUT (HIGH SPEED)



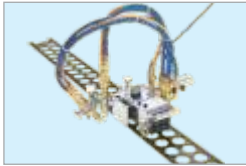
## Portable Gas Cutting Machine

- 40% Higher Productivity than Conventional Machine
- 60% Less Post Cutting Grinding Operation upto 300mm Cutting



### Portable automatic gas cutting machine PORTACUT - 300mm Thick Cutting

The Low cost alternative for high quality value.



Portacut with 2 torches (optional)

#### Cutting versatility

Straight or curve multi-bevel cuts with two torches (optional)



Straight or curve bevel cuts with two torches (optional)



Straight or curve cuts with two torches (optional)



Portacut circle cutting attachment

Straight or curve cuts with one torch



Straight or curve bevel cut with one torch



Portacut with 1 torch (standard) cutting a 300mm slab



## The Compact Motor Driven Gas Cutting Machine For Straight, Circle, Bevel, and Multi-bevel Flame Cuts



Functions control by forward/off/reverse switch, clutch lever and speed adjustment knob.

- Power source: AC 230V, 50/60Hz
- Speed control: Single cone system.
- Cutting thickness: 3-300 mm
- Strip cutting range: 80-300mm
- Motor: Condenser-induction, AC 230V, 10 W
- Weight: 9.5 kg
- Cutting speed: 50-800 mm/min
- Circle cutting : 150-2400mm diameter

- Portacut machine with 1 injector cutting torch for fuel gas acetylene:..... 71651782
- Portacut machine with 1 injector cutting torch for fuel gas propane/natural gas/BMCG:..... 71651783



- Rail Track with interlocking sections, length 1200mm:..... 71651790
- Rail Track with interlocking sections, length 1800mm:..... 71652018



- Injector machine cutting torch MSZ 832/110-A for fuel gas acetylene: ..... 71651787
- Injector machine cutting torch MSZ 832/110-PMYF for fuel gas propane/natural gas/BMCG:.... 71651788





• Adjusting valve for heating oxygen, G 1/4" RH:.....	71800500
• Adjusting valve for cutting oxygen, G 3/8" RH:.....	71800501
• Adjusting valve for fuel gas G 3/8" LH:.....	71800502
• Flashback arrestor for heating oxygen, G 1/4" RH:.....	0647583
• Flashback arrestor for cutting oxygen, G 3/8" RH:.....	0647584
• Flashback arrestor for fuel gas, G 3/8" LH:.....	0346364



• Extended rack bar:.....	71651791
• Counter weight :.....	71651792
• Circle cutting attachment, diameter 60-2400mm:.....	71651793
• Standard hose package, length 730mm :.....	71651929
• Extended hose package, length 950mm:.....	71651930
• Cross feed torch holder for strip and multi bevel cuts: .....	71651794

## QUICK CUT

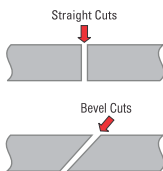
### Portable Cutting Machine



Product Code -  
M716QUICKCUT



Capable to straight & bevel cuts



#### Machine Specifications

Drive	: Single phase motor
Speed Control	: Potentiometer
Input Voltage	: 230V single phase 50Hz
Speed	: 200mm/min to 1000mm/min
Cutting Range	: 3mm to 100mm
Cutting Type	: Nozzle Mixing (NM)
Gas Type	: Oxygen & Acetylene   LPG - BMCG & Oxygen
Nozzle	: 3 seat ANME for Acetylene or PNME for LPG - Messer Make
Connections	: 3/8" RH Oxygen and 3/8" LH fuel
To be Used with	: Aluminum Guide Track
Safety	: BAM approved Messer Make Flash back arrestors for Oxygen & fuel

\* Machine can be used for circle cutting using attachment available as optional.

# STARCUT (HEAVY DUTY)

Hand Cutting Torch for Large Jobs  
Flame Gouging torch for Special Jobs



## STARCUT

- Connections - 3/8 " LH for fuel & 3/8 " RH for oxygen
- Cutting range - 3-300 mm
- Gas type - Acetylene-Oxygen or LPG- Oxygen
- Heads - 95°, 135° & 180°
- Length upto 3000mm



Model	Head	Length	Nozzle Type	Product Code
STARCUT 8622	95 DEG	540mm	3 Seat	71606896
STARCUT 8622	95 DEG	1000mm	3 Seat	71606902
STARCUT 8622	95 DEG	1500mm	3 Seat	71606973
STARCUT 8622	95 DEG	2000mm	3 Seat	71606974
STARCUT 8622	95 DEG	2500mm	3 Seat	71606949
STARCUT 8622	95 DEG	3000mm	3 Seat	71607405
STARCUT 9622	180 DEG	540mm	3 Seat	71606946
STARCUT 9622	180 DEG	1000mm	3 Seat	71606947
STARCUT 9622	180 DEG	1500mm	3 Seat	71606945
STARCUT 9622	180 DEG	2000mm	3 Seat	71606975
STARCUT 9622	180 DEG	2500mm	3 Seat	71607403
STARCUT 9622	180 DEG	3000mm	3 Seat	71607404
STARCUT 1615	135 DEG	1000mm	R&S (PMYF)	71605482MOD

**Starcut**  
**Heavy Duty Hand Cutting upto 500mm**

# AIRTHERM (HEAVY DUTY)



High Heating Performance with Fuel Gas Only (LPG-BMCG)

The New High Performance Brazing and Heating torch AIRTHERM \*FSH-P\* continues the tradition of Messer gas brazing and heating equipment with the quality and reliability, which is synonymous with Messer.

The torch series AIRTHERM \*FSH-P\* for fuel gas propane/atmospheric air with a power and highly stable flame even in most adverse conditions is a proven design incorporating the latest technical features necessary to meet the ever-changing applications and requirements for gas brazing and heating.

The Brazing and Heating Torch AIRTHERM \*FSH-P\* is the low cost, high quality, value alternative.

## TORCH HANDLE AIRTHERM 2002:

with hexagon nut DIN 8542, PN40-G 3/8 LH and Hose Nipple DIN 8542, PN40-G 3/8 LH / 6,3 mm

Only Handle  
Part No.: 0463452

STAINLESS STEEL HEATING  
AND BRAZING  
NOZZLES FSH-P:



FSH 30-P  
ø30mm  
71651918

FSH 40-P  
ø40mm  
71651919

FSH 50-P  
ø50mm  
71651920

FSH 60-P  
ø60mm  
71651921

FSH 80-P  
ø80mm  
71651922

## TORCH NECKS AIRTHERM 2002:



Torch Neck AIRTHERM 2002, length 200 mm - 05321260

Torch Neck AIRTHERM 2002, length 350 mm - 05321270

Torch Neck AIRTHERM 2002, length 750 mm - 05321290

Torch Neck AIRTHERM 2002, length 1000 mm - 05321300



## OPERATING DATA:

Airtherm Heating Nozzle	Product Code	Connection Thread	Fuel Gas	Propane (LPG)		Flame-Capacity (kW/h)
				Pressure (Bar)	Consumption (l/h)	
FSH 30	71651918	Female thread M 20 x 1.0 (flat sealing)	Propane (LPG)	1.5 - 4.0	600 - 1050	15 - 27
FSH 40	71651919				1050 - 2100	27 - 54
FSH 50	71651920				1850 - 3750	47 - 98
FSH 60	71651921				2700 - 4900	71 - 126
FSH 80	71651922				3200 - 5400	83 - 139

## AIRTHERM SUPER 50/60

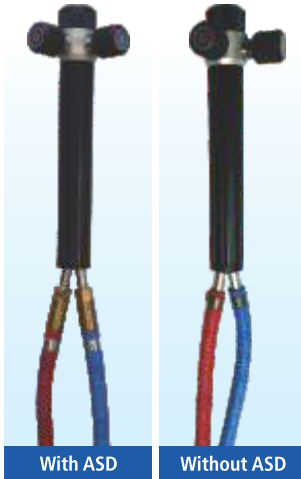
Super 50	80830486	Heating Torch
Super 60	80830361	Heating Torch

**The High Performance Heating Torch  
For LPG / Propane & Atmospheric Air**

# MINITHERM (Weight <100 grams)

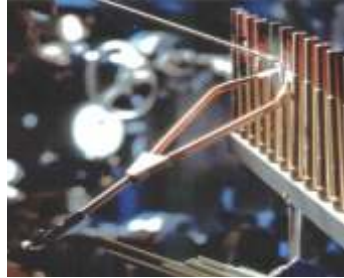
The feather weight welding and heating torch


The MINITHERM torch range has been developed to meet the need of trade and industry for a small injector torch to handle special jobs.




With ASD

Without ASD




	Product Description	Product Code
	Minitherm Kit with Hose & 5 Inserts Set HA	71601427
Minitherm Kit with Hose & 5 Inserts Set PM	71601428	
Minitherm BH with Hose 3M	71606112	
Minitherm Handle with 3M Hose & check valve (Safety Device)		71607184


## MINITHERM inserts type HA, fuel gas Hydrogen and Acetylene

	Size	Product Code	Oxygen Pressure (bar)	Acetylene Pressure (bar)	Hydrogen Pressure (bar)	Oxygen consumption (l/h)	Acetylene consumption (l/h)	Hydrogen consumption (l/h)
	0-HA	71600979	0,5 - 2,5	> 0,2	> 0,5	28 - 72	28 - 72	78 - 200
	1-HA	71600980	0,5 - 2,5	> 0,2	> 0,5	58 - 150	58 - 150	161 - 420
	2-HA	71600981	1,0 - 2,5	> 0,2	> 0,5	155 - 285	155 - 285	431 - 792
	3-HA	71600982	1,0 - 3,0	> 0,2	> 0,5	215 - 440	215 - 440	597 - 1220


## MINITHERM inserts type PMYF, fuel gas Propane, MAPP, GRIESON, BMCG and LPG

	Size	Product Code	Oxygen Pressure (bar)	Fuel gas Pressure (bar)	Oxygen consumption (bar)	Propane consumption (l/h)	MAPP consumption (l/h)	GRIESON consumption (l/h)
	0-PMYF	71600989	0,5 - 2,5	> 0,2	28 - 72	8 - 20	11 - 29	16 - 40
	1-PMYF	71600990	0,5 - 2,5	> 0,2	58 - 150	16 - 41	23 - 60	32 - 83
	2-PMYF	71600991	1,0 - 2,5	> 0,2	155 - 285	42 - 77	62 - 114	86 - 158
	3-PMYF	71600992	1,0 - 3,0	> 0,2	215 - 440	58 - 119	86 - 176	119 - 244

## MINITHERM forked torches type Z-HA, fuel Hydrogen and Acetylene

	Size	Product Code	Oxygen Pressure (bar)	Acetylene Pressure (bar)	Oxygen consumption (l/h)	Acetylene consumption (l/h)	Hydrogen consumption (l/h)
	Z 2 HA	71602560	1,0 - 3,0	> 0,5	310 - 570	282 - 518	861 - 1583
	Z 3 HA	71650466	2,0 - 5,5	> 0,5	430 - 880	391 - 800	1194 - 2444

## MINITHERM inserts type PMYE, fuel gas Propane, MAPP, GRIESON, BMCG and LPG

	Size	Product Code	Oxygen Pressure (bar)	Fuel Gas Pressure (bar)	Oxygen consumption (l/h)	Propane consumption (l/h)	Methane (N.G.) consumption (l/h)	MAPP consumption (l/h)	GRIESON consumption (l/h)
	Z 2 PMYE	71650471	1,0 - 3,0	> 0,5	310 - 570	583 - 1972	83 - 152	111 - 204	172 - 317
	Z 3 PMYE	71650472	1,0 - 5,5	> 0,5	430 - 880	778 - 1167	115 - 235	154 - 314	239 - 489

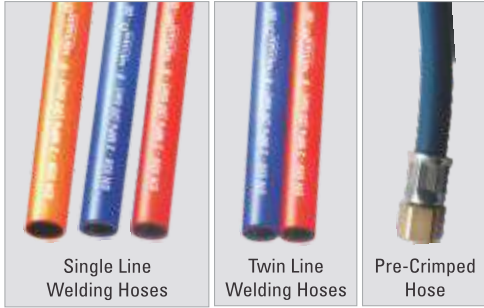
**The Light Weight Torch  
Welder Comfort Hence Increased Productivity**

# GAS HOSES (LONG LIFE)



Best Quality Hoses for Gas Welding, Brazing, Heating & Cutting.

## Complies to ISO 3821, EN 559, AS 1335, RMA



**Applications:** For use with welding and allied processes in workshops, Shipyards, construction site and manufacturing industries.

**Tube:** High ignition temperature EPDM

**Reinforcement:** High tensile synthetic textile filament yarn

**Cover:** Excellent ozone and weather resistant synthetic rubber

**Color:** ● Blue (Oxygen) / ● Red (Acetylene) / ● Orange (LPG / BMCG)

**Operating Temperature:** -25° C to +80° C

**Safety Factor:** 3 : 1

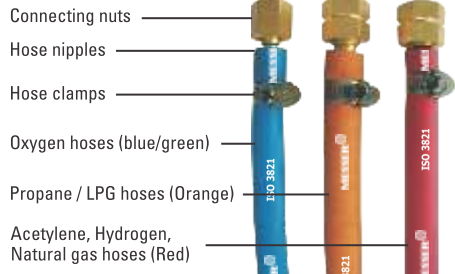
**Surface:** Smooth



Product Code New ISO 3821	Description	Gas Type	Color	ID (MM)	OD (MM)	WP (Kg/Cm2)	BP (Kg/Cm2)	Length/ Roll (M)
<b>SINGLE LINE HOSE</b>								
80130856	8X15MM 100M ROLL OXY BLUE HOSE MESSER	OXYGEN	BLUE	8	15	20	60	100
80130858	8X15MM 100M ROLL ACET RED HOSE MESSER	ACETELYNE	RED	8	15	20	60	100
AMCLO80SJ01	8X15MM 100M ROLL LPG ORANGE HOSE MESSER	LPG	ORANGE	8	15	20	60	100
AMCS06USJ01	6.3 X 13 MM 100M ROLL OXY BLU HOSE MESSER	OXYGEN	BLUE	6.3	13	20	60	100
AMCS06RSJ01	6.3 X 13 MM 100M ROLL ACET HOSE MESSER	ACETELYNE	RED	6.3	13	20	60	100
AMCS10USJ03	10 X 17 MM 100M ROLL OXY BLUE HOSE MESSER	OXYGEN	BLUE	10	17	20	60	100
AMCS10RSJ03	10 X 17 MM 100M ROLL ACET RED HOSE MESSER	ACETELYNE	RED	10	17	20	60	100
<b>TWIN HOSE</b>								
AMCT883SJ01	8X15/8X15MM 100M ROLL TWIN HOSE OXY/ACET	OXY/ACET	BLUE/RED	8+8	15+15	20	60	100
<b>UNIVERSAL FUEL GAS HOSE</b>								
80830443	ORANGE/RED UNIVERSAL FUEL GAS HOSE 8X15 MM	FUEL GAS	ORANGE/RED	8	15	20	60	100

### Say no to poor Quality Hoses

Oxygen and fuel gas hoses should not be older than 2 years. Messer hoses are marked with the year of manufacturing.



**Tough Hoses  
For Tough Working Conditions**



## Uninterrupted Gas Supply for your Applications

Gas cylinders are used for many applications in factories, workshops, laboratories, hospitals, universities, etc. The gases used have many different physical and chemical properties and they may cause dangerous situations if not handled properly. The best solution is to locate gas cylinder outside the working area and distribute the gas by pipeline to the point of use. Apart from safety, this approach offers quite a few advantages over using single cylinders at the point of use as below -



### Safety

- Leaking gas cylinders may create dangerous situations Viz., - fire, explosion, toxic gases: injuries, suffocation etc.,
- Cylinders may drop and damages or cause injuries, as compressed gas cylinders can fly like rockets in case they are damaged at the valve area.

### Reliability

- Uninterrupted gas supply by pressure monitoring and/or automatic change-over of the manifold systems.
- Stable working pressure of the gases on a continuous basis.



## Gas purity

- The purity of the gas is maintained by using specially designed and cleaned - equipment with integrated purge valves

## Cost savings

- Gas cylinders at a central location are easier to handle
- You can have lesser no of gas cylinders working and save on cylinder rentals
- Cylinder control panels ensure more efficient use of the gas cylinders
- Due to better control of the gas purity, all related equipment have a much longer life time.

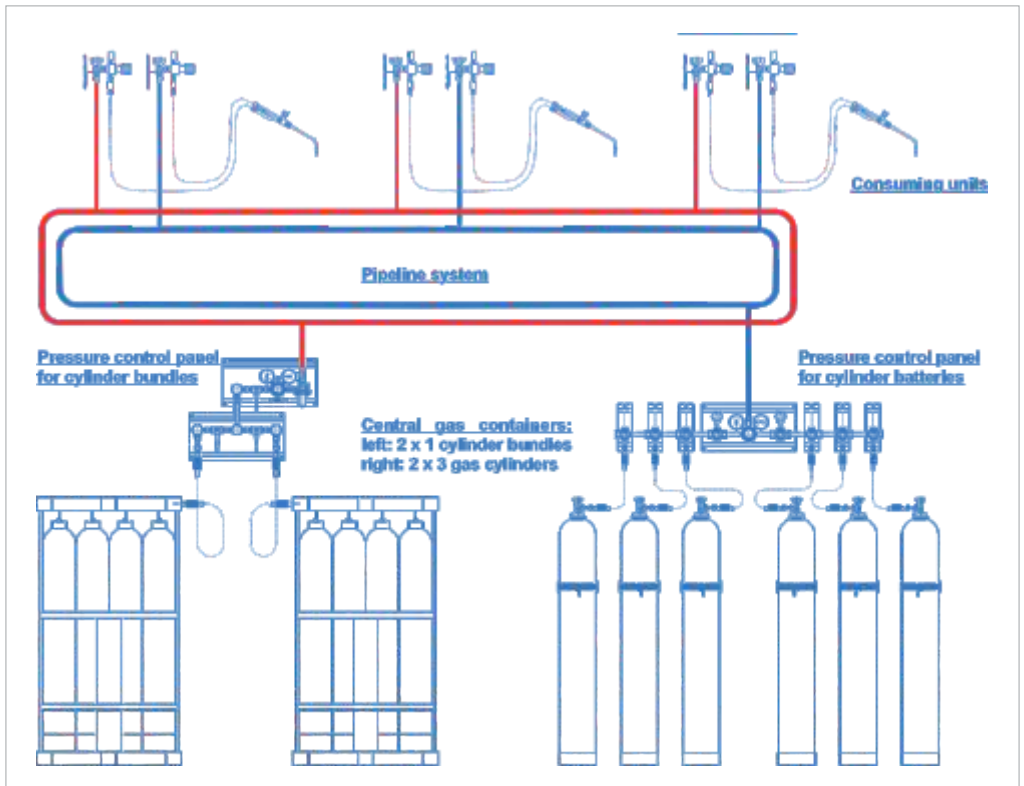
## Other advantages

- Manifolding reduces clutter & increases working space in the shop floor
- Less damage to pressure regulators, hoses and other fittings
- Easier control of leak tightness

A Central Distribution System for gases must fulfil the following requirements:

- Uninterrupted supply of gas
- Maintain the integrity and purity of the gas up to the point of use
- Safe distribution of the gas

Schematic example for a central gas supply system



## Pressure regulator U13



- Diaphragm pressure regulator
- For non-corrosive industrial gases
- Single-stage with high control accuracy
- Central filter in the pressure regulator
- Safety pressure gauge acc. to DINEN562
- Pressure regulator with integrated relief valve
- Pressure regulator for oxygen with filter in inlet fitting
- Accessories like wall brackets and in-/outlet fittings are also available

### Technical Data

Type	single-stage
Flow rate Q	max. 500 m <sup>3</sup> /h
Inlet pressure P <sub>1</sub>	max. 40 / 200 / 300 bar
Outlet pressure P <sub>2</sub>	see table below
at P <sub>1</sub> = 40 bar:	max. 5...30 bar
at P <sub>1</sub> = 300 bar:	max. 14...35) bar
	for oxygen up to 30 bar available!

### Materials

Body regulator:	brass
Bonnet:	Alu (powder coated)
Diaphragm regulator:	NBR
Valve seat regulator:	PA

## Pressure control panels BT2000



- Wall-mounting pressure control panels
- For non-corrosive industrial gases
- Ergonomically designed
- Modular design (to be extended to 2, 3 etc. cylinders)
- Filter at the process gas inlet valve
- Central filter in the regulator
- Regulator with high control accuracy
- Shut-off-valves with On/Off position indicators

### Technical Data

Type	single-stage
Inlet pressure P <sub>1</sub>	max. 300 bar
Outlet pressure P <sub>2</sub>	max. 10/20/50/100 bar
for 2L-models:	8-12 bar / 17-23 bar / 46-54 bar / 95-105 bar

### Materials

Bodies:	Brass
Diaphragm (P up to 20 bar):	EPDM
Piston (P > 20 bar):	Brass
Valve seat regulator:	PA
Mounting plate:	Stainless steel
Filter process gas valve:	Sintered bronze
Filter regulator:	Sintered SS 316L

## ET 65



- Tapping points for wall mounting
- For non-corrosive industrial gases
- For flows up to 50 m<sup>3</sup>/h
- Single-stage pressure regulator with high accuracy
- Central filter in the pressure regulator
- Safety pressure gauge acc. to DIN EN ISO 5171
- Inlet pressure shut off with ball valve
- For easy installation

### Technical Data

Type	single-stage
Inlet pressure P <sub>1</sub>	max. 40 bar
for acetylene:	max. 1.5 bar
Outlet pressure P <sub>2</sub>	
for P = 40 bar:	1.5 / 2.5 / 10 / 20 bar
for P = 1.5 bar (acetylene):	1.5 bar

### Materials

Bodies:	Brass
Diaphragm:	EPDM
Valve cone:	PA

## Cylinder pressure regulator FE53



- Double-stage stainless steel cylinder pressure regulator with extremely stable outlet pressure and anti-vibration device
- For corrosive, toxic gases and gas mixtures with corrosive components up to quality 6.0
- 6 ports for flexible and individual configuration
- New laboratory-style design
- Central filter
- Suitable for ECD-applications

### Technical Data

Type	single-stage
Inlet pressure $P_1$	max. 300 bar
Outlet pressure $P_2$ for 2L-models:	max. 10/20/50/100 bar 8-12 bar / 17-23 bar / 46-54 bar / 95-105 bar

### Materials

Bodies:	Brass
Diaphragm (P up to 20 bar):	EPDM
Piston (P > 20 bar):	Brass
Valve seat regulator:	PA
Mounting plate:	Stainless steel
Filter process gas valve:	Sintered bronze
Filter regulator:	Sintered SS 316L

## Line pressure regulator LT2000



- Ergonomically designed line pressure regulator
- For non-corrosive technical gases
- Single-stage type with high control accuracy
- Central filter in the regulator
- Safety pressure gauges acc. to DIN EN ISO 5171
- Compact design
- Models for inlet pressure up to 300 bar available

### Technical Data

Type	single-stage
Inlet pressure $P_1$	max. 40/300 bar
Outlet pressure $P_2$ for $P_1 \leq 40$ bar:	1.5/4/10 bar
for $P_1 > 40$ bar:	10/25/50/100/200 bar

### Materials

Body, bonnet:	Brass
Diaphragm regulator:	EPDM
Valve seat regulator:	PA

## High Pressure Hoses



- Working pressure max. 300 bar
- EN ISO 14113
- Internal diameter DN6
- Anti-whip device
- Oxygen: Stainless steel hose
- Acetylene:
  - Integrated non return valve
  - Bundle hose 2,5 m DN12
- Other gases: PE-hose
- Cylinder connections according to international standards available e.g. DIN, BS, CGA, AFNOR, NEN
- Available in different lengths

### Electrode Holders

CE EN-60974-11



- Glass filled polyamide unbreakable handle.
- Fully brass body.
- Multiple angle electrode holding jaw design.
- Long lasting replaceable fibre glass tip.
- Fully insulated metal lever.
- Spring cover for enhanced safety.
- Cable hole connection.

Electrode Holder	Rating	Product Code	Current at DC		Electrode Size
			35%	60%	
Special 400	400 Amp	80821102N	400 Amp	300 Amp	5.0 mm
Special 600	600 Amp	80821103N	600 Amp	350 Amp	6.3 mm



- Strong heat resistant DMC handle.
- Multiple angle electrode holding jaw design.
- Long lasting replaceable fibre glass tip.
- Fully insulated metal lever.
- Spring cover for enhanced safety.
- Easy cable connection without lug.
- Suitable for construction industry.

Electrode Holder	Rating	Product Code	Current at DC		Electrode Size
			35%	60%	
Standard 600	600 Amp	80821101N	500 Amp	400 Amp	6.3 mm

### Earth Clamps

CE BS638.5



- Corrosion resistant galvanized steel body.
- Heavy duty wire braided copper shunt.
- High tension steel spring.
- Conductive brass / steel jaws.

Earth Clamp	Rating	Product Code	Current at DC	
			35%	60%
MCSEC400	80821251	80821251	400 Amp	300 Amp
MCSEC600	80821252	80821252	600 Amp	350 Amp

## Cable Connectors

CE EN-60974-12



- Safety from open cable connections.
- High conduction brass body.
- High insulation rubber grip.
- Auto black allen screw.
- Cable connection thru brass ferrule.
- Euro connection.

Cable Connectors	Rating	Product Code	Current at DC		Cable Size
			35%	60%	
MSCC500	500 Amp	80821201	500 Amp	400 Amp	70 mm <sup>2</sup>
MSCC600	600 Amp	80821202	600 Amp	500 Amp	95 mm <sup>2</sup>

## Welding Cables

IS: 9857 / 1990



- Heat and Oil resistant & Fire Retardant
- Working temperature HOFR-90°C
- Heavy duty in current
- Saves 40% operating cost
- Light in weight
- Long life

Working Temperature HOFR - 90°C

COPPER	Nominal Cross Sectional Area of Conductor	Number / Nom. Dia of Wires	Thickness of Insulation (Nominal)	Current Rating (AMP) At Following Duty Cycle HOFR Compound			ALUMINUM	Nominal Cross Sectional Area of Conductor	Number / Nom. Dia of Wires	Thickness of Insulation (Nominal)	Current Rating (AMP) At Following Duty Cycle HOFR Compound		
	mm <sup>2</sup>	mm	mm	100%	60%	30%		mm <sup>2</sup>	mm	mm	100%	60%	30%
	16	510 / 0.2	2.0	135	174	246		25	355 / 0.3	2.0	144	186	263
	25	796 / 0.2	2.0	177	228	343		35	495 / 0.3	2.0	176	227	321
	35	1114 / 0.2	2.0	221	285	403		50	707 / 0.3	2.2	222	287	405
	50	707 / 0.3	2.2	279	360	509		70	990 / 0.3	2.4	280	361	511
	70	990 / 0.3	2.4	352	454	643		95	1344 / 0.3	2.6	339	438	619
	95	1344 / 0.3	2.6	424	547	774		120	1697 / 0.3	2.8	404	522	738

## Heavy Duty welding gloves

CE EN-388



- Made of premium quality natural leather for heavy duty Welding and material handling purpose.
- Special Strength to working parts due to double leather Patch at palm with premium grade stitching.
- Comfortable to work and sweat absorber lining inside Gloves.
- Hemming at the end of cuff to avoid itching.
- Long life in comparison to other gloves.
- Available in 14 inches & 16 inches

# HAND PLASMA CUTTING MACHINE

Powerful, Smart and Reliable

## StarCut® 65/ 105 MESSER KNOW-HOW YOUR SMART CHOICE OF MANUAL PLASMA CUTTING

- Digital Controlled Inverter based manual plasma cutting machine
- Digitised Panel for setup & control
- Extremely reliable IGBT powermodules saves power compared to conventional power sources
- Digital display of the amperage for easy visibility even in dark places
- Easily recognisable error code gives faster resolution of problems
- Wheel Mounted equipment for easy handling in workshops & Sites
- No Preheat process is required to cut conductive metals. Piercing can be done almost in 1 second
- 2 to 5 times higher cutting speed than conventional oxyfuel cutting for steels (Depending on machine power & plate thickness)
- Very easy to operate just connect to 3 phase power, compressed air & start cutting
- Superior cut quality means less grinding & easy edge preparation
- Less dross & superior cut quality

### Technical Data (dimensions in mm)

Specification	Starcut 65	Starcut 105
Input Voltage	3 phase 415 Volts & 50 Hz	
Output Current	35-65A	35-105A
Input Power (max output: 65A* 150V)	11.5 KVA	20 KVA
Machine Principle	Digitally controlled IGBT based inverter	
Open Circuit Voltage	300 Vbc ~ 330 Vdc	
Cutting Torch Cooling	Air cooled	
Duty Cycle at 400C (10 Min)	40 %	
Arc Ignition type	With Pilot Arc	
Dimension Length X Width X Height	540 mm X 360 mm X 670 mm	
Weight (kgs)	60	67
Recommended cut capacity without pierce (mm)	15	25
Reliable Pierce Capacity for manual cutting use (mm)	9	16
Severance Cut Capacity (mm)	20	45
Compressed Air requirement	Clean, Oil free, Dry, Compressed Air 5.0 to 5.5 Bar @ 175 L/min	
Minimum Compressor Capacity & Tank Size	1.5 hp with 300 Liter Tank	



StarCut 65



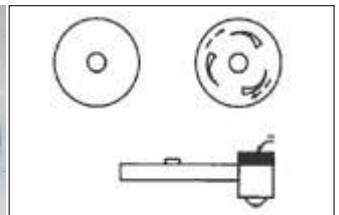
StarCut 105



Extremely easy operator panel with easy to select parameters



Extremely Reliable & robust torch for Indian shopfloor / site conditions



Built Cyclonic Technology for sharper & cleaner cut, Eliminates the need of swirl ring



# The Whole World of **Oxyfuel Technology**





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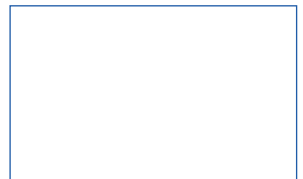
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