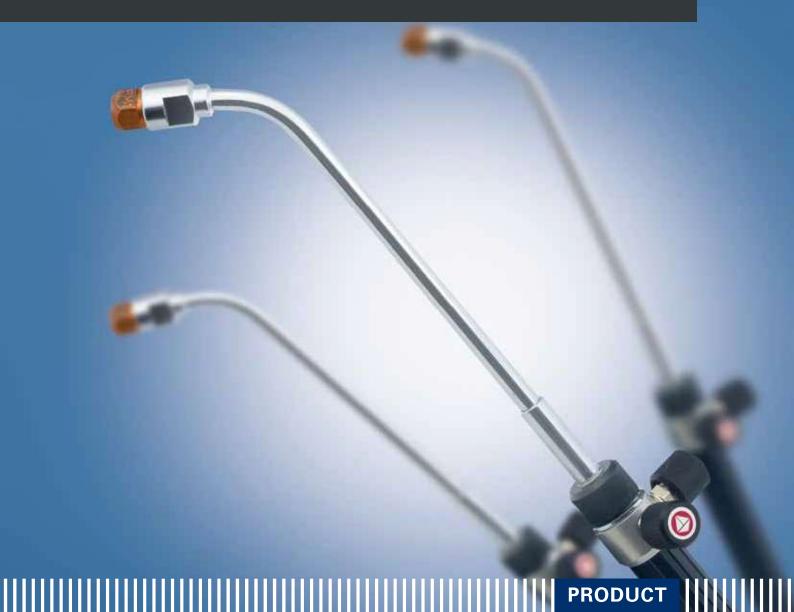


MINITHERM® MESSER CUTTING SYSTEMS



The featherweight 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.

A large number of torch inserts with the most different flame characteristics and flame powers offer a universal, well rounded, broad spectrum of applications from the micro flame which is hardly visible to the naked eye right up to powerful welding flames.

In contrast to conventional hand gas torches, the drastically lower weight of the handle and inserts allows fatigue-free continuous work over long periods.

This is especially important in pipe-line work, in production of jewellery, dental laboratories and fine engineering as well as in mass production of hand welded, hand brazed or heated components.

Welding, brazing and heating in difficult positions and hard to reach locations can usually be carried out with adequate freedom of movement and control to give high quality results due to the small size of the handle and the various inserts.

Furthermore, the MINITHERM® Hand-Cutting-Torch allows you to cut metal sheets up to 25mm material thickness.

The MINITHERM® torch range includes the following products:

- Handles and shafts
- Heating-Inserts (needle, micro, standard)
- Ring-Torches
- Forked-Torches
- Cutting-Torches
- Accessories

In addition to this, our experienced staff will be happy to assist you and can also support in case of special requests. Please do not hesitate to contact us.



The featherweight welding and heating torch

Handle	
MINITHERM	3
Heating inserts and spare nozzles	
Overall view: max. flame power [kW] – Heating inserts	4 – 5
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Forked torches and spare nozzles	
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Safety devices; Euro hose couplings	24
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Double thread connections; 90° angle connections; Spare-parts, Hoses	26



The featherweight welding and heating torch





Version:

- MINITHERM handle with shaped grip for a secure grip position.
- One-handed operation thanks to V shaped valve arrangement.
- Fine adjustment spindles in Oxygen and fuel gas valves.
- Can be used with all fuel gasses.

Application:

• For use with brazing heating and welding inserts type MINITHERM with Fuel gas/Oxygen or fuel gas/compressed air.

ruei gas/Oxygeii o	i idei gas/ c	ompresse	u an.				
Technical Data:							
Turns	Moight	Grip	Grip length:	Connections – Ø	Hose tail		
Type MINITHERM	Weight [g]	T Ø Immi		Oxygen / Compressed air	Fuel gas		
Without hoses	77	16	120	3,2 mm	3,2 mm		
Handle complete with 3m hoses:							
Hose connections EH	390	16	120	G1/4" RH	G3/8" LH		
Hose connections BH	390	16	120	G3/8" RH	G3/8" LH		
Hose connections FH	390	16	120	M16x1,5 RH	M16x1,5 LH		
Part Numbers:							
Handle Type	Ha	andle witl	hout hoses	Handle with 3m hose-pack			
Standard		7160	6109	-			
With hanging knob		7160	5770	-			
Chemically Nickel plated		7165	1665	-			
Hose connections EH		-		71606111			
Hose connections BH		-		71606112			
Hose connections FH		-		71606114			
Spare parts and hoses you	will find o	n page 26					
Handle MINITHERM fitted	with other	hose len	gths available on req	uest.			



FLAME POWER [KW]

The featherweight welding and heating torch

BRAZING-, WELDING- AND HEATING INSERTS
PROPANE – METHANE - ACETYLENE
OVERALL VIEW

Max. flame power	Max. flame power [KW] – overall view brazing-, welding- and heating inserts:									
Connection	Туре	Propane	Methane	Acetylene	Part No.	Page				
MINITHERM: Pro	pane, Methane / Ox	ygen – single-h	ole nozzles							
MINITHERM	Z-PM 00	0,34	0,21	-	71600988	8				
MINITHERM	Z-PM 0	0,52	0,36	-	71600989	8				
MINITHERM	Z-PM 1	1,07	0,84	-	71600990	8				
MINITHERM	Z-PM 2	2,00	1,86	-	71600991	8				
MINITHERM	Z-PM 3	3,09	2,88	-	71600992	8				
MINITHERM: Ace	etylene / Oxygen – si	ngle-hole nozzlo	es							
MINITHERM	Z-A 00	-	-	0,87	71600978	9				
MINITHERM	Z-A 0	-	-	1,14	71600979	9				
MINITHERM	Z-A 1	-	-	2,37	71600980	9				
MINITHERM	Z-A 2	-	-	4,51	71600981	9				
MINITHERM	Z-A 3	-	-	6,96	71600982	9				
MINITHERM: Pro	pane, Methane / Ox	ygen – multi ho	le nozzles							
MINITHERM	FKZ-PMY 1	2,42	1,94	-	71650804	10				
MINITHERM	FKZ-PMY 2	2,91	2,32	-	71650805	10				
MINITHERM*	FK-PMY 6*	9,62	7,78	-	71651639	10				
MINITHERM: Ace	etylene / Oxygen – m	ulti hole nozzle	S							
MINITHERM	FKZ-AH 1	-	-	5,06	71650808	11				
MINITHERM	FKZ-AH 2	-	-	6,01	71650809	11				
MINITHERM	FK-AH 3	-	-	7,75	71650810	11				
MINITHERM: Ace	etylene / Oxygen – si	ngle-hole nozzlo	es							
MINITHERM	B3-AH	-	-	6,96	71604348	11				
MINITHERM: Pro	pane, Methane / Co	mpressed air-s	ingle-hole nozzl	es						
MINITHERM	ZD 8/2 PM	0,25	0,20	-	71651600	12				
MINITHERM	ZD 11/4 PM	0,78	0,63	-	71651602	12				
	etylene / Oxygen – si	ngle-hole nozzl	es single-hole no	ozzles, flexibleb	ar					
MINITHERM	Z-A 2	-	-	2,85	71651834	13				
MINITHERM	Z-A 3	-	-	5,06	71651835	13				
· ·	er [KW] – overall vie									
	pane, Methane / Ox					ı				
MINITHERM	FKZ-PMY 1	4,86	4,27	-	71650828	16				
MINITHERM	FKZ-PMY 2	5,82	4,64	-	71650829	16				
	etylene / Oxygen – m	ulti hole nozzle	S			ı				
MINITHERM	FKZ-AH 1	-	-	10,06	71650820	16				
MINITHERM	FKZ-AH 2	-	-	11,61	71650821	16				
	pane, Methane / Ox					ı				
MINITHERM	Z-PMYE 000	0,26	0,21	-	71650467	17				
MINITHERM	Z-PMYE 00	0,44	0,36	-	71650468	17				
MINITHERM	Z-PMYE 0	0,96	0,78	-	71650469	17				
MINITHERM	Z-PMYE 1	2,08	1,66	-	71650470	17				
MINITHERM	Z-PMYE 2	3,95	3,15	-	71650471	17				
MINITHERM	Z-PMYE 3	6,11	4,86	-	71650472	17				
* Stainless steel	mixing tube									



FLAME POWER [KW]

The featherweight welding and heating torch

BRAZING-, WELDING- AND HEATING INSERTS
PROPANE – METHANE - ACETYLENE
OVERALL VIEW

Max. flame power	Max. flame power [KW] – overall view Forked torches:									
Connection	Туре	Propane	Methane	Acetylene	Part No.	Page				
MINITHERM: Ace	etylene / Oxygen – si	ingle-hole nozzlo	es							
MINITHERM	Z-AH 00	-	1	1,03	71650463	17				
MINITHERM	Z-AH 0	-	ı	2,01	71650464	17				
MINITHERM	Z-AH 1	-	ı	4,32	71650465	17				
MINITHERM	Z-AH 2	-	ı	8,19	71602560	17				
MINITHERM	Z-AH 3	-	1	12,65	71650466	17				
Max. flame power	Max. flame power [KW] – overall view Ring torches:									
MINITHERM C: P	ropane, Methane / (Oxygen								
MINITHERM	C2-PMY-36-5	2,11	1,69	-	71650917	18				
MINITHERM	C3-PMY-55-7	3,35	2,68	-	71650919	18				
MINITHERM	C3-PMY-75-7	3,35	2,68	-	71650921	18				
MINITHERM	C3-PMY-90-8	3,35	2,68	-	71650923	18				
MINITHERM C: A	cetylene / Oxygen									
MINITHERM	C2-A-36-3	-	-	4,38	71650915	18				
MINITHERM	C2-A-36-5	-	-	4,38	71650916	18				
MINITHERM	C3-A-55-7	-	-	6,97	71650918	18				
MINITHERM	C3-A-75-7	-	ı	6,97	71650920	18				
MINITHERM	C3-A-90-8	-	1	6,97	71650922	18				



NEEDLE INSERTS

The featherweight welding and heating torch

MINITHERM PROPANE, METHANE / OXYGEN; HYDROGEN / OXYGEN OPERATING DATA, TECHNICAL DATA, PART NUMBERS

Needle insert MINITHERM G3





Version:

- One piece injector (Messing chromed) with cone connection adapter for micro needle inserts Type G. The one-piece needle insert consists of a Luer Lock brass cone adaptor piece, Nickel plated, with a brazed capillary tube stainless steel nozzle.
- Fits all handles type MINITHERM.

- Processing fine sheets in toy and model building.
- Production of jewellery, dental products and small components.
- Processing printed circuits and wire in the electro industry.

Operating data for gas type: Hydrogen (H) / Oxygen									
	Pressure				Consumption [I/h]				
Туре	Oxygen	Hydı	rogen	Oxygen		Hydrogen (H)			
G1 H	0,5 - 1,5	>	1,0	9 - 15			25	5 - 42	
G2 H	0,5 - 1,5	>	1,0	9 - 15			25	5 - 50	
G3 H	0,5 - 2,0	>	0,5	9 - 21			25	5 - 67	
G4 H	0,5 - 3,0	>	0,5	9 - 24			25	5 - 75	
Operating data for	r Gas types: Pro	pane (P), Met	hane (M), MAP	P (1	Y) / Oxygen			
	Oxygen	(P I	M Y)	Oxygen		(P)		M)	(Y)
G2-PMY	0,5 - 1,5	>	1,0	9 - 15		2,5 - 4,0	5,6	5 - 9,4	3,3 - 4,6
G3-PMY	0,5 - 2,0	>	0,5	9 - 21		2,5 - 5,6	5,6 - 13,1		3,3 - 7,8
G4-PMY	0,5 - 3,0	>	0,5	9 - 24		2,5 - 6,4	5,6 - 15,0		3,3 - 8,9
G5-PMY	0,5 - 3,5	>	0,5	9 - 27		2,5 - 7,2	5,6	- 16,9	3,3 - 10,0
Part Numbers:						Accessories			
Туре	Insert			Injector		O-Ring			O-Ring
туре	(Length: 41 n	nm)		Type G		7x1,5		2	2,5x1,2
G1 H	71605795	<u>, </u>	7	1650811		67330008		67	7330009
G2 H/PMY	71605796	j	7	1650811		67330008		67	7330009
G3 H/PMY	71605797	,	7	1650811		67330008		67	7330009
G4 H/PMY	71605798	3	7	1650811		67330008		67	7330009
G5 PMY	71605799)	7	1650811		67330008		67	7330009



MICRO HEATING INSERTS

The featherweight welding and heating torch

MINITHERM ACETYLENE, HYDOGEN, PROPANE, METHANE, MAPP / OXYGEN OPERATING DATA, PART NUMBERS





Version:

- Single piece injector (chromed brass) with threaded connection adaptor for micro inserts Type M. Copper inserts with hammered nozzle.
- Fits all handles type MINITHERM.

- Processing fine sheets in toy and model building.
- Production of jewellery, dental products and small components.
- Processing printed circuits and wire in the electro industry.

Operating data for gas type: Acetylene (A), Hydrogen (H) / Oxygen										
Turno	Pressur	e [ba	ir]			Cor	sumptio	on [l/	h]	
Туре	Oxygen		(A H)		Oxygen		(A)		(H)	
MG-AH 2	0,2 - 0,5		> 0,5		6 - 9		6 - 9		17 - 25	
MG-AH 3	0,5 - 1,5		> 0,5		9 - 15		9 - 15		7	25 - 42
MG-AH 4	0,5 - 0,8		> 0,5		32 - 39		32 - 39		8	9 - 108
MG-AH 5	0,8 - 1,0		> 0,5		39 - 43		39 - 43		10	08 - 120
MG-AH 6	1,0 - 1,5		> 0,5		43 - 54		43 - 54		17	20 - 150
MG-AH 7	1,5 - 2,5		> 0,5		54 - 76		54 - 76		1!	50 - 210
Operating data for gas type: Propane (P), Methane (M), MAPP (Y) / Oxygen										
	Oxygen		(P M Y)		Oxygen		(P)	(M)	(Y)
MG-PMY 4	1,0 - 2,5		> 0,5	12 - 21		3 - 6 8		- 13	4 - 8	
MG-PMY 5	2,0 - 4,0		> 0,5	18 - 30		5 - 8 11		11	-19	6 - 11
MG-PMY 6	1,0 - 2,5		> 0,5	5 43 - 76		11 - 20 27		- 48	15 - 27	
MG-PMY 7	2,0 - 3,5		> 0,5	0,5 65 - 98		17 - 26 41		- 60	23 - 35	
Part Numbers:					ļ.	Acces	sories			
Туре	Insert		Injecto	r	Injecto	r	0-1	Ring		O-Ring
Type	(Length: 38 m	m)	(A H)		(PMY		7x	1,5		2,5x1,2
MG-AH 2	71605783		7165081	L3	-		6733	80008		67330009
MG-AH 3	71605784		7165081	L3	-		6733	80008		67330009
MG-AH/PMY 4	71605785		7165081	L4	7165081	.3	6733	80008		67330009
MG-AH/PMY 5	71605786		7165081	L 4	7165081	.3	6733	80008		67330009
MG-AH/PMY 6	71605787		7165081	L 4	7165081	.4	6733	80008		67330009
MG-AH/PMY 7	71605788		7165081	L4	7165081	.4	6733	80008		67330009



MINITHERM Z-PM
PROPANE, METHANE / OXYGEN
OPERATING DATA, TECHNICAL DATA, PART NUMBERS

Heating insert MINITHERM Z-PM



Version:

- Chromed brass injector with O-Ring handle seals.
- Pacified Copper heating nozzle (alternatively: chemically Nickel plated), with hammered mouthpiece.
- With central flame outlet (single jet nozzle) and mixing system (injector) using under pressure mixing principle.
- Fits all handles type MINITHERM.

- Heating and brazing applications even in out of position and hard to access places.
 Welding only with Acetylene.
- Production of jewellery, dental products and small components.
- Mass production hand-made or heat treated work-pieces.

Operating d	Operating data for gas type: Propane (P), Methane (M) / Oxygen									
Toma		Pressure [bar]			Consumption [I/I	h]				
Туре	Oxygen	Propane (P)	Methane (M)	Oxygen	Propane (P)	Methane (M)				
Z-PM 00	0,5 - 2,5	> 0,2	> 0,1	20 - 55	6 - 13	15 - 24				
Z-PM 0	0,5 - 2,5	> 0,2	> 0,1	28 - 72	8 - 20	21 - 41				
Z-PM 1	0,5 - 2,5	> 0,2	> 0,1	58 - 150	16 - 41	43 - 95				
Z-PM 2	1,0 - 2,5	> 0,2	> 0,1	155 - 285	42 - 77	115 - 211				
Z-PM 3	1,0 - 3,0	> 0,2	> 0,1	215 - 440	58 - 119	159 - 326				
Part Numbe	ers:			Spa	re Parts					
Туре	Insert compl. with Copper nozzle	Insert compl. Chemically Nickel plated	nozzle	Injector chromed	O-Ring 7x1,5	O-Ring 2,5x1,2				
Z-PM 00	71600988	71650401	71600993	71600998	67330008	67330009				
Z-PM 0	71600989	71650402	71600994	71600999	67330008	67330009				
Z-PM 1	71600990	71650403	71600995	71601001	67330008	67330009				
Z-PM 2	71600991	71650404	71600996	71601002	67330008	67330009				
Z-PM 3	71600992	71650405	71600997	71601003	67330008	67330009				
MINITHERM	I KIT:			Techn	ical Data	Part No.				
The same of the sa		Comprising MIN	THERM handle	Insert Z-PM 00	Length 113 mm					
		with connected I				-				
		connections (•	Z-PM 0	123 mm	71601408				
(· · ·		Oxygen and G3 gas and five ins		Z-PM 1	133 mm					
		sizes 00 to 3 in		Z-PM 2	143 mm					
			•	Z-PM 3	153 mm					





Heating Insert MINITHERM Z-A



Version:

- Chromed brass injector with O-Ring handle seals.
- Pacified Copper heating nozzle (alternative: chemically Nickel plated), with hammered mouthpiece.
- With central flame outlet (single jet nozzle) and under pressure mixing system (injector).
- Fits all handles type MINITHERM.

Application:

- Heating and brazing applications even in out of position and hard to access places. Welding only with Acetylene.
- Production of jewellery, dental products and small components.
- Mass production hand-made or heat treated work-pieces.

Operating data for gas type: Acetylene (A) / Oxygen								
Turno	Pressu	re [bar]	Consumption [I/h]					
Туре	Oxygen	Acetylene (A)	Oxygen	Acetylene (A)				
Z-A 00	0,5 - 2,5	> 0,2	20 - 55	20 - 55				
Z-A 0	0,5 - 2,5	> 0,2	28 - 72	28 - 72				
Z-A 1	0,5 - 2,5	> 0,2	58 - 150	58 - 150				
Z-A 2	1,0 - 2,5	> 0,2	155 - 285	155 - 285				
Z-A 3	1,0 - 3,0	> 0,2	215 - 440	215 - 440				

Part Numb	ers:		Spare Parts				
Туре	Insert complete with Copper nozzle	Insert complete chemically Nickel plated	Heating nozzle Copper	Injector Chrome plated	O-Ring 7x1,5	O-Ring 2,5x1,2	
Z-A 00	71600978	71650394	71600983	71600998	67330008	67330009	
Z-A 0	71600979	71650395	71600984	71600999	67330008	67330009	
Z-A 1	71600980	71650396	71600985	71601001	67330008	67330009	
Z-A 2	71600981	71650397	71600986	71601002	67330008	67330009	
Z-A 3	71600982	71650398	71600987	71601003	67330008	67330009	

MINITHERM Kit:		Techn	ical Data	Part No.
		Insert	Length	71601407
and the second s	Comprising MINITHERM handle	Z-A 00	113 mm	
	with connected hoses, 3m long, connections G1/4"RH for Oxygen and G3/8"LH for fuel gas and five inserts type A sizes 00 to 3 in a	Z-A 0	123 mm	
		Z-A 1	133 mm	
		Z-A 2	143 mm	
	plastic case.	Z-A 3	153 mm	

Other lengths available on request (not as kit in case).

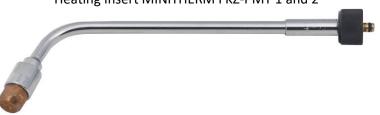


The featherweight welding and heating torch

HEATING INSERTS

MINITHERM FKZ-PMY, FK-PMY
PROPANE, METHANE, MAPP / OXYGEN
OPERATING DATA, TECHNICAL DATA, PART NUMBERS





Version FKZ-PMY 1 and FKZ-PMY 2:

- Brass, chromed insert.
- Interchangeable Copper multi-jet heating nozzle FKZ.
- Fits all handles type MINITHERM.

Application:

- Making pipelines and heat exchangers.
- Installation and assembly work.
- Production lines and assembly belts.

FKZ-PMY 1



FKZ-PMY 2



- Processing laboratory (quartz) glass.
- Making jewellery.
- Assembly of household equipment.
- Producing water and gas manifolds.

Operating da	Operating data for gas type: Propane (P), Methane (M), MAPP (Y) / Oxygen								
Tomas	Pressi	ure [bar]	Consumption [I/h]						
Туре	Oxygen	(P M Y)	Oxygen	(P)	(M)	(Y)			
FKZ-PMY 1	0,5 - 1,5	> 0,5	210 - 350	56 - 93	131 - 219	75 - 125			
FKZ-PMY 2	0,5 - 2,0	> 0,5	280 - 420	75 - 112	175 - 263	100 - 150			
Part Numbe	rs:		Spare Parts			Technical Data			
Type	Insert	Heating nozzle	Injector	Connection	Length	Number of			
Туре	complete	Copper	chromed	nut	[mm]	jets			
FKZ-PMY 1	71650804	71650800	71601001	71605980	175	5			
	, 100								
FKZ-PMY 2	71650805	71650801	71601002	71605980	175	7			

Heating Insert MINITHERM FK-PMY 6



Version FK-PMY 6:

- Stainless steel insert with interchangeable multi-jet stainless steel nozzle.
- Insert is wear resistant even under high radiant heat.

Application:

Glass industry.Der

• Dental laboratory.

Heating small parts.

Operating data for gas type: Propane (P), Methane (M), MAPP (Y) / Oxygen								
Turno	Press	ure [bar]		Consumption [I/h]				
Туре	Oxygen	(P M Y)	Oxygen	(P)	(M)	(Y)		
FK-PMY 6	2,5	0,5 - 1,0	1400	370	880	467		
Part Number	s:		Spare Parts		Technical Data			
Turno	Insert	Heating nozzle	Injector Ni	Connection	Length	Number		
Туре	complete.	Stainless steel	plated	nut	[mm]	of jets		
FK-PMY 6	71651639	71651641	71651643	71605980	255	6		
Other length	Other lengths available on request.							



The featherweight welding and heating torch

HEATING INSERTS

MINITHERM FKZ-AH, FK-AH, B3-AH **ACETYLENE, HYDROGEN / OXYGEN OPERATING DATA, TECHNICAL DATA, PART NUMBERS**

Heating Insert MINITHERM FKZ-AH



Version FKZ-AH:

- Brass, chromed insert.
- Interchangeable Copper multi-jet heating nozzle FKZ.
- Fits all handles type MINITHERM.

Applications:

- Making pipelines and heat exchangers.
- Installation and assembly work.
- Production lines and assembly belts.



FKZ-AH 1



- Processing laboratory (quartz) glass.
- Jewellery making.
- Assembly of household equipment.
- Producing water and gas manifolds.

Operating data for gas type: Acetylene (A), Hydrogen (H) / Oxygen								
Type	Pressui	re [bar]	Consumption [l/h]					
Туре	Oxygen	(A H)	Oxygen	Acetylene (A)	Hydrogen (H)			
FKZ-AH 1	0,5 - 1,5	> 0,5	210 - 350	190 - 320	580 - 970			
FKZ-AH 2	0,5 - 2,0	> 0,5	210 - 420	190 - 380	580 - 1170			
FK-AH 3	1.0 - 3.0	> 0.2	270 - 540	240 - 490	750 - 1500			

Part Numbe	rs:		Spare Parts	Technical Data		
Туре	Insert complete	Heating nozzle Copper			Length [mm]	Number of jets
FKZ-AH 1	71650808	71650798	71601001	71605980	175	5
FKZ-AH 2	71650809	71650799	71601002	71605980	175	7
FK-AH 3	71650810	71603008	71601003	71605980	175	9

Other lengths available on request.





Version B3-AH:

Brass mixing tube, interchangeable single jet, Copper nozzle.

Applications:

Brazing, heating, welding.

Operating data for gas type: Acetylene (A), Hydrogen (H) / Oxygen								
Туре	Pressui	re [bar]		Consumption [l/h]				
	Oxygen	(A H)	Oxygen	Acetylene (A)	Hydrogen (H)			
B3-AH	1,0 - 3,0	0,5	215 - 440	215 - 440	597 - 1220			

Part Numbers	::		Spare Parts	Technical Data	
Туре	Insert complete.	Heating nozzle	Injector Chromed	Connection nut	Length [mm]
B3-AH	71604348	71604349	71601003	71605980	311

Other lengths available on request.



The featherweight welding and heating torch

HEATING INSERTS

MINITHERM ZD-PM
PROPANE, METHANE / COMPRESSED AIR
OPERATING DATA, TECHNICAL DATA, PART NUMBERS

Heating Insert MINITHERM ZD 8/2 PM





Version:

- Interchangeable Copper heating nozzle (Chrome plated).
- Single jet nozzle with stabilisation holes on side.
- Fits all handles type MINITHERM.

- Soft soldering.
- Heating of small components and thin sheets.

Operating data fo	Operating data for gas type: Propane (P), Methane (M) / Compressed Air								
	Pressu	re [bar]		Consumption [I/h]					
Туре	Compressed air		Propane (P) Compressed Methane (M) air		sed	Propane (P)		Methane (M)	
ZD 8/2 PM	1,0 - 3,0	> 0,02		61 - 18	32	3,20	- 9,60		7,60 - 22,8
ZD 11/4 PM	1,0 - 3,0	> 0,02		190 - 5	69	10,0	- 30,0		23,7 - 71,2
Technical Data:									
Туре	Length [mm]		0	Outer Ø nozzle [mm]		Ø Central flame jet [mm]			
ZD 8/2 PM	159			11,5			2		
ZD 11/4 PM	162			15	15				
Part Numbers:					Spa	re Parts			
Туре	Insert complete	Spare nozzle		Injector	jector Coni		O-Ring 7x1,5	3	O-Ring 2,5x1,2
ZD 8/2 PM	71651600	71602483	7	1601001	716	05980	6733000)8	67330009
ZD 11/4 PM	71651602	71602484	7	1601003 716		05980	6733000	8(67330009
Other lengths ava	Other lengths available on request.								



Pipe welding insert MINITHERM Z-A 3 (flexible)



Version:

- Pipe welding insert with flexible soft Copper mixing tube.
- Sharply defined flame cone through specially processed outlet jets.

Application:

- Welding in operating range 1-4 mm.
- Brazing and heating in hard to reach locations.

Operatir	ng data for gas type: A	cetylene (A) / Oxygen	Technical data			
Туре	Welding range [mm] Consumption [m³/h] O₂(2-3 bar) and Acetylene (0,5 bar)		Length complete with outstretched mixing tube [mm] To fit handle			
			MINITHERM			
Z-A 2	1 - 2	0,13 - 0,18	228			
Z-A 3	2 - 4	0,24 - 0,32	228			

Part numbers:

Туре	Insert complete for handle	Heating nozzle (Mouthpiece + flexible mixing tube with connection threads)				
	MINITHERM	MINITHERM				
Z-A 2	71651834	71651836				
Z-A 3	71651835	71651837				

Flexible nozzle MINITHERM Z-A





The featherweight welding and heating torch





Application table torch holder MINITHERM:

- For MINITHERM handles with hanging knob (71605770) for comfortable storage in ready to use inclination.
- Especially suitable for use with the larger MINITHERM welding, brazing and heating inserts as well as the MINITHERM forked torches.

Part Number (without heating insert):

71605781

Magnetic table torch holder MINITHERM



Application Magnet-table torch holder MINITHERM:

For MINITHERM standard handle without hanging knob (71606109).

Version:

 Consists of a heavy, cast steel stand foot with seven numbered magazine holes for all MINITHERM micro Inserts, 45° angles support rack with screwed on disc magnet and chromed holding plate for mounting onto the MINITHERM handle.

Part Number (without Heating insert):

71605782



The featherweight welding and heating torch

HEATING INSERTS

GLASS NOZZLE HEADS WITH THREADED CLAMPING RINGS
HYDROGEN / OXYGEN
TECHNICAL DATA, PART NUMBERS

MINITHERM Glass top piece with clamping ring threads



Version:

MINITHERM:

Injector chemically Ni plated, stainless steel threads, clamping ring of stainless steel.

- For clamping quartz glass nozzles (Nozzles are not in our scope of supply).
- Heating and melting of quartz and Quartz glass.

To fit handle	Size	Clamping Ø [mm]	Total length [mm]	Ø [mm] Nozzle outlet	Part No.
MINITHERM	00	6	69	0,50	71650485
MINITHERM	0	6	69	0,63	71650486
MINITHERM	1	6	69	0,74	71650487
MINITHERM	2	6	69	0,93	71650488
MINITHERM	3	6	69	1,35	71650489



FORKED TORRCHES

The featherweight welding and heating torch

MINITHERM FKZ-PMY; FKZ-AH FUEL GAS (PMY – AH) / OXYGEN OPERATING DATA, TECHNICAL DATA, PART NUMBERS

Forked torch MINITHERM FKZ-PMY



Version:

- Two brass torch pipes with brazed nozzle connection nipples.
- Exchangeable Copper multi-jet heating nozzles.
- Stainless steel distributor piece.

Application:

- Building pipelines and heat exchangers.
- Assembly and installation work.
- Final installation household equipment.

Nozzle size 1



Nozzle size 2



- Production of water and gas manifolds.
- Production lines and assembly belts.
- · Glass processing.

Operating data for gas type: Propane (P), Methane (M), MAPP (Y) / Oxygen									
	Pressu	re [bar]				Consu	mption [l/h]		
Туре	Overgon Fuel gas		Ov	Oxygen		Fuel gas			
	Oxygen	(P M Y)	UX	ygen		(P)	(P) (M)		(Y)
FKZ-PMY 1	2,0 - 4,0	> 0,5	420	- 700	1	L12 - 187	263 - 483	3	150 - 250
FKZ-PMY 2	3,0 - 5,0	> 0,5	550	- 840	1	L47 - 224	344 - 525	5	196 - 300
Operating da	ta for gas type	e: Acetylene (A), Hyd	rogen (F	1) /	Oxygen			
Туре	Oxygen	(A H)	Ox	ygen		Acetyl	ene (A)		Hydrogen (H)
To fit handle	o fit handle type MINITHERM:								
FKZ-AH 1	2,0 - 4,0	> 0,5	420	- 700		382	- 636		1170 - 1795
FKZ-AH 2	3,0 - 5,0	> 0,5	550	- 840		500	- 734		1528 - 2039
Technical dat	a:								
Weight	Length	Nozzle sta	ınd-	Nozzle	s Co	onnection	ction Nozzle		Ø[mm]
[g]	[mm]	off [mm	າ]		thre	ead	Outer Ø [n	nm]	Flame circle
144	210	30 – 35	5		M9	x1	9		5,5
Part numbers									
Type	Forked to	orch MINITHE	RM cor	mplete		Spare	nozzle		Nozzle type
FKZ-PMY 1		71650828				7165	0800		FKZ-PMY 1
FKZ-PMY 2	71650829					71650801			FKZ-PMY 2
FKZ-AH 1	71650820					71650798			FKZ-AH 1
FKZ-AH 2		71650821				7165	0799		FKZ-AH 2



MINITHERM Z-PMYE; Z-AH FUEL GAS (PMYE – AH) / OXYGEN OPERATING DATA, TECHNICAL DATA, PART NUMBERS

Forked torch MINITHERM Z-PMYE und Z-AH



Version:

- Two flexible Copper torch nozzles with hammered mouthpieces.
- Brazed, non-exchangeable Copper heating nozzles. Stainless steel distribution piece.

- Building pipelines and heat exchangers.
- Assembly and installation work.
- Final installation household equipment.
- Production of water and gas manifolds.
- Production lines and assembly belts.
- Glass processing.

Operating data	Operating data for gas type PMYE: Propane (P), Methane (M), MAPP (Y), Ethylene (E) / Oxygen								
	Pres	sure [bar]			Con	sumption	[/	h]	
Туре	Overson	Fuel gas	Owngon		Fuel gas				
	Oxygen (P M)		Oxygen	(P)		(M)		(Y)	(E)
To fit handle ty	pe MINITH	ERM:							
Z-PMYE 000	0,5 - 2,0	> 0,5	15 - 38	4 - 10)	9 - 24		5 - 13	8 - 20
Z-PMYE 00	0,5 - 2,0	> 0,5	26 - 65	7 - 17	,	16 - 41		9 - 22	14 - 34
Z-PMYE 0	0,5 - 2,0	> 0,5	56 - 140	15 - 37	7	35 - 88		19 - 47	29 - 74
Z-PMYE 1	0,5 - 2,0	> 0,5	120 - 300	32 - 80	0	75 - 188	3	40 - 100	63 - 158
Z-PMYE 2	1,0 - 3,0	> 0,5	310 - 570	83 - 15	52	194 - 35	6	103 - 190	103 - 300
Z-PMYE 3	1,0 - 5,5	> 0,5	430 - 880	115 - 23	35	269 - 55	0	143 - 293	226 - 463
Operating data	for gas typ	e: Acetylene (A),	Hydrogen (I	l) / Oxyge	n				
Туре	Oxygen	(A H)	Oxygen	Ace	etyle	ene (A)		Hydrogen (H)	
To fit handle ty	pe MINITH	ERM:							
Z-AH 00	0,5 - 2,0	> 0,5	26 - 65		26 -	26 - 65		181	
Z-AH 0	0,5 - 2,0	> 0,5	56 - 140	Į.	51 - 127			156 -	- 389
Z-AH 1	0,5 - 2,5	> 0,5	120 - 300	1	109 - 273			333 - 833	
Z-AH 2	1,0 - 3,0	> 0,5	310 - 570	2	82 -	- 518		861 - 1583	
Z-AH 3	2,0 - 5,5	> 0,5	430 - 880	3	91 -	- 800		1194 -	- 2444
Technical data	:								
Weight	[g]	Length [mm] No	zzle stand-		[mm]	No	zzle pipe lei	
90		210		30 - 3	35			100	
Part numbers:		Z-	-PMYE					Z-AH	
size 00	0	71	650467					-	
size 00 716			650468					1650463	
size 0	size 0 71						7	1650464	
			650470					1650465	
	size 2 710				71602560				
size 3		71	650472				7:	1650466	



MINITHERM C

PROPANE, METHANE, MAPP - ACETYLENE / OXYGEN OPERATING DATA



Version:

- Small ring torch with threading opening for heating of pipes.
- Torch ring and mixing tube made of Copper piping, chemically Ni plated.
- To fit handle type MINITHERM.

- Building pipelines and heat exchangers.
- Assembly and installation work.
- Manufacture of gas and water manifolds.
- Production lines and assembly belts.
- Processing glass.

Operating data for gas type: Propane (P), Methane (M), MAPP (Y) / Oxygen									
Turno	Pressu	re [bar]	Consumption [I/h]						
Туре	Oxygen	(P M Y)	Oxygen	Propane (P)	Methane (M)	MAPP (Y)			
C2-PMY-36-5	2,5	0,5	305	81	191	102			
C3-PMY-55-7	2,5	0,5	485	129	303	162			
C3-PMY-75-7	2,5	0,5	485	129	303	162			
C3-PMY-90-8	2,5	0,5	485	129	303	162			
Operating data	Operating data for gas type: Acetylene (A) / Oxygen								
Туре	Oxygen	Acetylene (A)	Оху	gen	Acetylen	e (A)			
C2-A-36-3	2,5	0,5	30)5	277				
C2-A-36-5	2,5	0,5	30	05	277				
C3-A-55-7	2,5	0,5	48	35	441				
C3-A-75-7	2,5	0,5	48	35	441				
C3-A-90-8	2,5	0,5	485 441						
Technical data	und Part numbe	rs on the next pa	ge.						



The featherweight welding and heating torch



Version:

- Small ring torch with threading opening for heating of pipes.
- Torch ring and mixing tube made of Copper piping, chemically Ni plated.
- To fit handle type MINITHERM.

- Building pipelines and heat exchangers.
- Assembly and installation work.
- Manufacture of gas and water manifolds.
- Production lines and assembly belts.
- Processing glass.

Technical data:	Weight	Length	Threading	Inner Ø	Number of jets
Туре	[g]	[mm]	opening [mm]	Ring [mm]	reamber or jets
C2-PMY-36-5	77	171	30	36	5
C3-PMY-55-7	86	191	30	55	7
C3-PMY-75-7	111	215	45	75	7
C3-PMY-90-8	111	227	55	90	8
C2-A-36-3	77	171	30	36	3
C2-A-36-5	77	171	30	36	5
C3-A-55-7	86	191	30	55	7
C3-A-75-7	86	215	45	75	7
C3-A-90-8	111	227	55	90	8

Part numbers:			
Type PMY	Part number	Type A	Part number
C2-PMY-36-5	71650917	C2-A-36-3	71650915
C3-PMY-55-7	71650919	C2-A-36-5	71650916
C3-PMY-75-7	71650921	C3-A-55-7	71650918
C3-PMY-90-8	71650923	C3-A-75-7	71650920
-	-	C3-A-90-8	71650922



HAND-CUTTING-TORCH & CUTTING NOZZLES

The featherweight welding and heating torch

MINITHERM 2207 & A-BF, A-BK; PB-K/PMY PROPANE, METHANE, MAPP / OXYGEN; ACETYLENE / OXYGEN OPERATING DATA; TECHNICAL DATA, PART NUMBERS

Cutting-Torch MINITHERM 2207





Version:

- Cutting Torch for handle MINITHERM for cutting up to 25 mm.
- Nozzle Type A-BF and A-BK: Block-Cutting-Nozzles for use of Acetylene and Oxygen.
- Nozzle Type PB-K/PMY: Block-Cutting-Nozzles for use of Propane, Methane, MAPP and Oxygen.

Application:

• Cutting of thin metal plates up to 25mm.

Cutting-Torch							
Туре	Nozzle-Type	Fuelgas	Part-Number				
MINITHERM 2207	Block nozzle	Acetylen	71607090				
MINITHERM 2207	Block nozzle	Propane, Methane, MAPP	71607110				
Block-Cutting Nozz	les						
Туре	Cutting-Range [mm]	Fuelgas	Part-Number				
A-BF	0,5 – 3,0	Acetylen	71600291				
A-BK	3,0 – 10,0	Acetylen	71600503				
A-BK	10,0 – 25,0	Acetylen	71600504				
Block-Cutting Nozz	les and Heating Nozzle	e					
Туре	Cutting-Range [mm]	Fuelgas	Part-Number				
PB-K-PMY	3,0 – 10,0	Propane, Methane, MAPP	71616741				
PB-K-PMY	10,0 – 25,0	Propane, Methane, MAPP	71616742				
Heating Nozzle	3,0 – 25,0	Propane, Methane, MAPP	71616743				

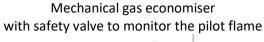


The featherweight welding and heating torch

IGNITION UNITS FOR HAND TORCHES

MECHANICAL GAS ECONOMISER PROPANE, METHANE, MAPP - ACETYLENE / OXYGEN OPERATING DATA, TECHNICAL DATA, PART NUMBERS







Version:

- The gas economiser consists of a small casing in pestle-shut-off valves for Oxygen und fuel gas are housed protected from dust and damage –, the hanging bracket for the torch (gas stop when torch sits in bracket), the permanent pilot flame and the installation plate. Inlets and outlets for Oxygen and fuel gas hoses.
- There is also a gas economiser equipped with a safety valve and thermal element to monitor the permanent pilot flame.

Application:

• The gas economiser is conceived for work-places equipped with lightweight brazing, heating and welding torches with frequent or regular pauses in the work with the flame, e.g. in mass production of soldered parts.

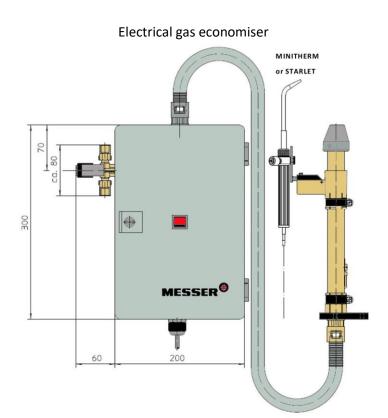
Operating data for gas type: Propane (P) / Oxygen; Acetylene (A) / Oxygen									
	Max. operating pressures [bar]								
Oxygen Fuel gas									
	4,0				0,5				
Technical data:									
Height	Height Width Depth Connections								
[mm]	[mm]	[mm]		Fuel gas					
337	240	88	G1/4" R	H - Hose 6,3 mm	G3/8" LH – Hose 9 mm				
Part number	rs:								
	Propane (P) / Oxygen		Acety	rlene (A) / Oxygen				
Laid out for	torch type MI	NITHERM:							
	71607015 71607014								
Laid out for torch type MINITHERM, also with safety valve to monitor the pilot flame:									
71607588 71607587									



The featherweight welding and heating torch

IGNITION UNITS FOR HAND TORCHES

ELECTRICAL GAS ECONOMISER PROPANE, METHANE, MAPP - ACETYLENE / OXYGEN TECHNICAL DATA, PART NUMBERS



Version:

• The electrical gas economiser consists of a small electrical cabinet with integrated ignition transformer and solenoid valves mounted on the outside with inlet and outlet connections for Oxygen and fuel gas hoses. An electrical lead from the cabinet with shielding cover runs through and to a table stand with integrated ignition head and torch holder. When the torch is hung up, the solenoid valves shut off the gas supply. When the torch is picked up the solenoid valves open and the troch can be lit directly at the ignition head. The time for ignition after picking up the torch can be set on a time relay.

Application:

 The gas economiser is conceived for work-places equipped with small brazing, heating and welding torches type MINITHERM or STARLET and offers safe operation of the torch at work stations with frequent pauses in the work. Very safe as no open pilot flame exists.

Technical data:								
Height Width Depth Connections								
[mm]	[mm]	[mm]		Fuel gas				
300	200 + 60	120	G1/4" R	H - hose 6,3 mm	G3/8" LH - hose 9 mm			
Part number	Part numbers:							
24 V - 50/60 Hz 230 V – 50/60 Hz								
	7160	5756		71605755				



The featherweight welding and heating torch

SHAFT; ADJUSTMENT VALVES; DISTRIBUTION PIECES
ALL GAS TYPES
OPERATING DATA, TECHNICAL DATA, PART NUMBERS

Valve shaft MINITHERM







Version:

- Valve shaft made of aluminum
- Incl. adjustment valves.

Application:

 For use in mechanised (automated) operation of heating, welding and brazing torches.

Version:

- With hand-wheel.
- Brass valve body.

Application:

 On and shut-off valve to be installed on torch shafts, pipe lines or gas supply panels.

Shaft:									
Туре	Connection Oxygen	Connection Fuel gas	Clamping Ø [mm]	Length [mm] Clamping shaft	Part No.				
MINITHERM	Hose tail DN 3,2 mm	Hose tail DN 3,2 mm	15	15 8					
Threads for ballcoc	ks: see under Sole	enoid valves							
Adjustment valves:	Inlet external thi	read – Outlet cap nu	t: (Installed on	torch inlet)					
Gas type	as type Connection max. operating pressure [bar] Nominal bore DN [mm] Part No.								
Oxygen	G1/4" RH	25		6	71800500				
Fuel gas	G3/8" LH	25		9	71800502				
Adjustment valves: Inlet cap nut – Outlet external thread:									
Oxygen	G1/4" RH	40	0 6 7180390						
Fuel gas	G3/8" LH	40	9 7180390						
Distribution piece:			Gas type	Connection	Part No				
			l						



	Gas type	Connection	Part No
Version: • 1x inlet (nut), 2x outlets (m thread)	Oxygen	G1/4" RH	51211653
 One adjustment knob per outlet pplication: Splitting the gas supply between two torches. 	Acetylene	G3/8" LH	51211602
	Fuel gas	G3/8" LH	71655018

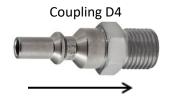


The featherweight welding and heating torch

SAFETY DEVICES AT GAS TAKE-OFF POINT / COUPLINGS
OXYGEN; FUEL GAS
OPERATING DATA, TECHNICAL DATA, PART NUMBERS

Safety device DGN for Oxygen





Version:

- DGN-DK:
- ➤ Flow direction for mounting on gas take-off points.
 Inlet: cap nut Outlet: Coupling pin following EN 561 (for D4 pin).
- > Filter, gas non-reverse flow valve, flame arrestor, post flow stop valve.
- DGN
- > Flow direction for mounting on gas take-off points.
 - Inlet: cap nut Outlet: male thread.
- Filter, gas non-reverse flow valve, flame arrestor, post flow stop valve.
- DG 91 N
- > Flow direction for mounting on gas take-off points.
 - Inlet: cap nut Outlet: male thread.
- > Filter, gas non-reverse flow valve, flame arrestor, post flow stop valve.
- High flow rate.

Application:

• To protect against creeping and sudden gas back-flow and against back-fires.

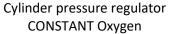
Тур	е	G	as type	Connections		Flow rate air with inlet p	volume [m3 ressure [bar	_	P	art No.
DGN-	DK	(Oxygen	G1/4"	RH	2,35 – 33,	0 [0,3 – 5,0]		04	463827
DGN-	DK	F	uel gas	G3/8"	LH	2,35 – 33,	0 [0,3 – 5,0]		04	463826
DGI	V	(Oxygen	G1/4"	RH	2,35 – 33,	0 [0,3 – 5,0]		04	463386
DGI	N	F	uel gas	G3/8"	LH	2,35 – 33,	0 [0,3 – 5,0]		04	463385
DG 92	l N	(Oxygen	G1/4"	RH	3,50 – 45,	0 [0,3 – 5,0]		04	463831
DG 92	l N	F	uel gas	G3/8"	LH	3,50 – 45,	0 [0,3 – 5,0]		04	463829
Test unit	for safe	ety dev	vices							
Test unit	PVGD f	or anr	nual testing o	of safety dev	ices.				04	463825
Conversi	on facto	r U to	calculate th	e gas flow r	ate for gas	type:				
Air	Oxyge	en	Propane (P) Metha	ne (M)	MAPP (Y)	Ethylen	e (E)	Ace	tylene (A)
1	0,95	;	0,9; (1,0 at p=0,7	7) 1,	40	0,80	1,012		1,20	
Max. Gas	flow ra	ite: Vo	olume Gas =	Volume Air	x Conversio	on factor U [r	n³/h]			
	Оху	gen			Fuel gas		Non-	flammak	ole g	asses
Inlet	Ou	tlet	PartNo.	Inlet	Outlet	PartNo.	Inlet	Outle	et	PartNo.
Coupling	pin D4	– Outl	et external:							
Coupling	G1/4	ŀ" RH	0463430	-	-	-	Coupling	G1/4"	RH	0463433
Coupling	G3/8	3" RH	0463431	Coupling	G3/8" LH	0463432	Coupling	G3/8"	RH	0463434
DKD – Eu	ro-Coup	oling: I	Inlet cap nut	•						
G1/4" RF	l Cou	pling	0463312	-	-	-	G1/4" RH	Coupli	ng	0463313



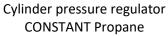
G3/8" RH | Coupling | 0463368 | G3/8" LH | Coupling | 0463311 | G3/8" RH | Coupling

The featherweight welding and heating torch

CYLINDER PRESSURE REGULATORS TYPE CONSTANT
OXYGEN; COMPRESSED AIR; FUEL GASES
OPERATING DATA, TECHNICAL DATA, PART NUMBERS









Cylinder pressure regulator CONSTANT Acetylene



Version:

- Tested to BAM (Federal German Institute for material research and testing).
- With integrated central filter.
- High regulation accuracy even with low operating pressures and take-off quantities.
- Double protected outlet pressure limitation with blow-off valve and toothed arrestor.
- Single stage regulator (also available as two stage regulator).

Application:

• For mounting on gas cylinders to reduce the cylinder pressure to the working pressure.

Gas type Type CONSTANT	max. outlet pressure [bar]	Cylinder connection	Hose connection	Part No.			
Cylinder pressure: 200 bar							
Oxygen	10	G3/4" RH	G1/4" RH - DN 6	71620100			
Oxygen	20	G3/4" RH	G1/4" RH - DN 6	71620101			
Compressed air	10	G5/8" RH (male)	G1/2" RH - DN 15	71620141			
Compressed air	20	G5/8" RH (male)	G1/2" RH - DN 15	71620142			
Propane	2,5	W 21,80 x 1/14" LH	G3/8" LH - DN 9	71620108			
Methane, Hydrogen	10	W 21,80 x 1/14" LH	G3/8" LH - DN 9	71620110			
Methane, Hydrogen	20	W 21,80 x 1/14" LH	G3/8" LH - DN 9	71620111			
MAPP	2,5	W 21,80 x 1/14" LH	G3/8" LH - DN 9	71620109			
Acetylene	1,5	Clamp	G3/8" LH - DN 9	71620107			
Cylinder pressure	: 300 bar						
Oxygen	10	W 30x2 - Ø 17.3/18.3	G1/4" RH - DN 6	71706716			
Oxygen	20	W 30x2 - Ø 17.3/18.3	G1/4" RH - DN 6	71706717			
Compressed air	20	W30x2 - Ø 16.6/19.4	G1/4" RH - DN 6	71706724			
Methane, Hydrogen	10	W 30x2LH - Ø 15.2/20.2	G3/8" LH - DN 9	71706732			
Methane, Hydrogen	20	W 30x2LH - Ø 15.2/20.2	G3/8" LH - DN 9	71706733			

For cylinder pressure regulators for different gasses and pressure ranges see main catalogue oxyfuel equipment. Other connections on request.



The featherweight welding and heating torch

DOUBLE THREAD CONNECTORS; 90°-ANGLE CONNECTIONS
SPARE PARTS; HOSES
TECHNICAL DATA, PART NUMBERS

Double thread connectors



Angle connections



Version:

• Brass with double-ended external thread and internal sealing cone.

Application:

For the connection of Oxygen, Fuel gas,
 Compressed air and Cooling water hoses with metallic sealing connection threads.

Version:

• With cylindrical inner or external threads and 90° bend.

Application:

 For the connection of Oxygen, Fuel gas, Compressed air and Cooling water hoses with metallic sealing connection threads.

Double thread connections:							
Thread G1 and G2 [Inch]	Total length [mm]			Spanner size [mm]	Part No.		
G1/4" RH	34		12	14	71826006		
G1/4" LH	34		12	14	71650376		
G3/8" RH	37		13,5	17	70101361		
G3/8" LH	37		13,5	17	71826008		
90° angle connections:							
Thread G1 (female) a	nd G2 (male) [Inc	h]		Part number	S		
G1/4"	RH			71826666			
G1/4"	'LH			71826669			
G3/8"	RH			71826667			
G3/8"	'LH			71826670			
Spare Parts / Accessories:							
Hanging Knob			7160	06336			
Connection nut			7160)5980			
O-Ring 7 x 1,5			6733	30008			
O-Ring 2,5 x 1,2			6733	30009			
Adjustment valve for fuel			7160	06418			
gas or oxygen			7100				
		Oxygen			el gas		
Hose DN 3,2 mm	_	140079		0140078			
Hose tail 3,2	71	.601160		71601161			
Cap nut (EH)	70	050030		70050040			
Cap nut (BH)	70050130			70050040			
Cap nut (FH)	71602051			71602052			
1-Ear hose clamps	0800487 0800487						
1-Ear hose claim pliers	0:	994052		099	4052		





CREATING SOLUTIONSBEYOND MACHINES

PRODUCT ||||||| AUTOMATION |||||| DIGITAL ||||| SERVICES |||| KNOW-HOW

What we stand for

Messer Cutting Systems is a global supplier of cutting edge technology for the metalworking industry.

With over 900 employees worldwide in over 50 countries, we maintain a constant dialogue with our customers to achieve sustainable user-oriented innovation.

Our portfolio embraces the themes PRODUCT, DIGITAL, SERVICES, AUTOMATION and KNOW-HOW. We will live up to our claim "creating solutions beyond machines" not just with the most modern cutting systems and solutions for oxyfuel technology.

Appropriate services and training, our own software applications as well as the integration of solutions from our technology partners, e. g. in the field of automation, complete the machine to give forward-looking total solutions.

Our know-how combined with our customer-oriented attitude and actions have made us the worldwide partner of choice for innovative total solutions on all aspects of cutting systems for over 120 years.

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