# MINITHERM® THE FEATHERWEIGHT WELDING AND HEATING TORCH





The MINITHERM<sup>®</sup> 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<sup>®</sup> 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

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MINITHERM	3
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# The featherweight welding and heating torch

#### Handle MINITHERM

#### Handle MINITHERM with 3m hoses





#### 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.

Technical Data:	-	·					
Turne	Mainht	Grip	Grip length:	Connections – Ø	ð Hose tail		
Type MINITHERM	Weight [g]	Ø [mm]	[mm] (without hose tails	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 h	ose-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 <mark>2</mark> 6					
Handle MINITHERM fitted	with other	hose lon	aths available on rea	uest			

Handle MINITHERM fitted with other hose lengths available on request.



#### FLAME POWER [KW]

The featherweight welding and heating torch

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

Max. flame powe	er [KW] – overall vie	w brazing-, weld	ling- and heatir	ng inserts:		
Connection	Туре	Propane	Methane	Acetylene	Part No.	Page
<b>MINITHERM:</b> Pro	pane, Methane / Ox	ygen – single-ho	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 nozzle	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
<b>MINITHERM: Pro</b>	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	nulti 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 nozzle	es			
MINITHERM	B3-AH	-	-	6,96	71604348	11
MINITHERM: Pro	pane, Methane / Co	mpressed air- s	ingle-hole nozz	les		
MINITHERM	ZD 8/2 PM	0,25	0,20	-	71651600	12
MINITHERM	ZD 11/4 PM	0,78	0,63	-	71651602	12
MINITHERM: Ace	etylene / Oxygen – si	ngle-hole nozzle	es single-hole n	ozzles, flexibleb	ar	
MINITHERM	Z-A 2	-	-	2,85	71651834	13
MINITHERM	Z-A 3	-	-	5,06	71651835	13
	er [KW] – overall vie					
MINITHERM: Pro	pane, Methane / Ox	xygen – multi ho	le nozzles			Ţ
MINITHERM	FK-PMYE 1	4,86	4,27	-	71650828	16
MINITHERM	FK-PMYE 2	5,82	4,64	-	71650829	16
	etylene / Oxygen – m	ulti hole nozzle	S	1	I	T
MINITHERM	FK-AH 1	-	-	10,06	71650820	16
MINITHERM	FK-AH 2	-	-	11,61	71650821	16
	pane, Methane / Ox			1		
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] WELDING- AND HEATING INSERTS

# The featherweight welding and heating torch

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

Max. flame powe	er [KW] – overall vie	w Forked torche	25:								
Connection	Туре	Propane	Methane	Acetylene	Part No.	Page					
MINITHERM: Ace	etylene / Oxygen – si	ngle-hole nozzl	es								
MINITHERM	Z-AH 00	-	-	1,03	71650463	17					
MINITHERM	Z-AH 0	-	-	2,01	71650464	17					
MINITHERM	Z-AH 1	-	-	4,32	71650465	17					
MINITHERM	Z-AH 2	-	-	8,19	71602560	17					
MINITHERM	Z-AH 3	-	-	12,65	71650466	17					
Max. flame power [KW] – overall view Ring torches:											
<b>MINITHERM C: P</b>	ropane, Methane / C	Dxygen									
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					
<b>MINITHERM C: A</b>	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	-	-	6,97	71650920	18					
MINITHERM	C3-A-90-8	_	-	6,97	71650922	18					



The featherweight

#### **NEEDLE INSERTS**

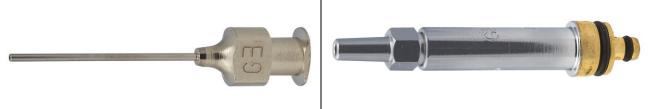
MINITHERM

welding and heating torch

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

#### Needle insert MINITHERM G3

#### Injector MINITHERM G



#### 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										
Tuno	Pressure	e [bar]				Consumpti	on [l/	h]		
Туре	Oxygen	Hydr	rogen	Oxygen			Hydro	ogen (H)		
G1 H	0,5 - 1,5	>	1,0	0 9 - 15 25 - 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 Gas types: Propane (P), Methane (M), MAPP (Y) / Oxygen										
	Oxygen	(P I	VI 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	;			
Tupo	Insert			Injector		O-Ring			O-Ring	
Туре	(Length: 41 n	nm)		Туре G		7x1,5		2	2,5x1,2	
G1 H	71605795		7	1650811		67330008		67	7330009	
G2 H/PMY	71605796	;	7	1650811		67330008		67	7330009	
G3 H/PMY	71605797	'	71650811			67330008		67	7330009	
G4 H/PMY	71605798	5	7	1650811		67330008		67330009		
G5 PMY	71605799	)	7	1650811		67330008		67	7330009	



# The featherweight welding and heating torch

#### MICRO HEATING INSERTS MINITHERM ACETYLENE, HYDOGEN, PROPANE, METHANE, MAPP / OXYGEN OPERATING DATA, PART NUMBERS



Injector MINITHERM for Micro insert



#### 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										
Туре	Pressur	e [ba	ar]	Consumption [l/h]						
гуре	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			25 - 42
MG-AH 4	0,5 - 0,8		> 0,5		32 - 39		32 - 39			89 - 108
MG-AH 5	0,8 - 1,0		> 0,5		39 - 43		39 - 43		1	.08 - 120
MG-AH 6	1,0 - 1,5		> 0,5		43 - 54		43 - 54		1	.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		-19	6 - 11
MG-PMY 6	1,0 - 2,5		> 0,5	43 - 76		11 - 20		27	- 48	15 - 27
MG-PMY 7	2,0 - 3,5		> 0,5		65 - 98 17		17 - 26 41		- 60	23 - 35
Part Numbers:					ļ	Acces	sories			
Туре	Insert (Length: 38 mr	n)	Injecto (A H)	r	Injecto (P M Y)			Ring 1,5		O-Ring 2,5x1,2
MG-AH 2	71605783		7165081	L3	-		6733	80008	}	67330009
MG-AH 3	71605784		7165081	13	-		6733	80008	}	67330009
MG-AH/PMY 4	71605785		7165081	14	7165081	.3	6733	30008		67330009
MG-AH/PMY 5	71605786		7165081	L4	7165081	.3	6733	30008		67330009
MG-AH/PMY 6	71605787		7165081	14	7165081	.4	6733	30008		67330009
MG-AH/PMY 7	71605788		7165081	14	7165081	.4	6733	30008		67330009



welding and heating torch

#### 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.

#### **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: Propane (P), Methane (M) / Oxygen											
Tupo		Pressure [bar]			Consumption [I/I	ו]					
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	rs:			Spai	e Parts						
Туре	Insert compl. with Copper nozzle	Insert compl. Chemically Nickel plated	Heating nozzle Copper	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	1650405 71600997		67330008	67330009					
MINITHERM	KIT:			Techn	ical Data	Part No.					
				Insert	Length						
		Comprising MINI with connected h		Z-PM 00	113 mm						
		connections G	-	Z-PM 0	123 mm	71601408					
		Oxygen and G3,		Z-PM 1	133 mm						
		gas and five ins sizes 00 to 3 in a		Z-PM 2	143 mm						
			,	Z-PM 3	153 mm						

#### Other lengths available on request.



welding and heating torch

#### Heating Insert MINITHERM Z-A



#### Version:

- Chromed brass injector with O-Ring handle seals. ٠
- 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. •

- 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. ٠
- Mass production hand-made or heat treated work-pieces. •

Operating data for gas type: Acetylene (A) / Oxygen										
Tupo		Pressu	re [bar]			Со	nsump	tion [l/h]		
Туре	Oxygen		Acetyle	ne (A)		Oxygen		Acety	/lene (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	3 - 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	5 - 285	
Z-A 3	1,0 - 3,0		> 0,	.2		215 - 440		215	5 - 440	
Part Numb						•	e Parts	;		
	Insert complet		ert complete	Heating		Injector	С	-Ring	O-Ring	
Туре	with Copper		hemically	nozzle		Chrome		7x1,5	2,5x1,2	
	nozzle		ckel plated	Copper		plated				
Z-A 00	71600978	7	71650394	71600983	3	71600998	67	330008	67330009	
Z-A 0	71600979	7	71650395	71600984	4	71600999	673	330008	67330009	
Z-A 1	71600980	71650396		7160098	5	71601001	673	330008	67330009	
Z-A 2	71600981	7	71650397	7160098	5	71601002	673	330008	67330009	
Z-A 3	71600982	7	71650398	7160098	7	71601003	67	330008	67330009	
MINITHER	M Kit:					Technical Data			Part No.	
						Insert	L	ength		
		•	ising MINITHE			Z-A 00	11	.3 mm		
			onnected hose tions G1/4"RF			Z-A 0	12	.3 mm	71601407	
1+				gas and five		Z-A 1	13	33 mm	,1001107	
The second secon		inserts	s type A sizes (			Z-A 2	14	l3 mm		
			plastic case	2.		Z-A 3	15	53 mm		
Other leng	ths available on	reauest	t (not as kit ir	ı case).					•	





#### **HEATING INSERTS**

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

The featherweight welding and heating torch

#### Heating Insert MINITHERM FKZ-PMY 1 and 2

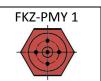


#### Version FKZ-PMY 1 and FKZ-PMY 2:

- 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.





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

Operating data for gas type: Propane (P), Methane (M), MAPP (Y) / Oxygen											
Turne	Press	ure [bar]		Consumption [l/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 Numbers:			Consulta Davida		Taskat	Technical Data					
Part Numbe	rs:		Spare Parts		lecnni	cal Data					
	rs: Insert	Heating nozzle	Spare Parts Injector	Connection	Length	Number of					
Туре		Heating nozzle Copper		Connection nut							
	Insert		Injector		Length	Number of					
Туре	Insert complete	Copper	Injector chromed	nut	Length [mm]	Number of jets					

Other lengths available on request.

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.	• [	Dental laboratory.     Heating small parts.									
Operating da	Operating data for gas type: Propane (P), Methane (M), MAPP (Y) / Oxygen											
Turne	Press	ure [bar]		Consump	tion [l/h]	ion [l/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							
Туре	Insert complete.	Heating nozzle Stainless steel	Injector Ni plated	Connection nut	Length [mm]	Number of jets						
FK-PMY 6	71651639	71651641	71651643	71605980	255	6						
Other length	Other lengths available on request.											



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welding and heating torch

The featherweight

#### **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.

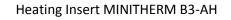




- Processing laboratory (quartz) glass.
- Jewellery making.
- Assembly of household equipment.
- Producing water and gas manifolds.

Operating da	Operating data for gas type: Acetylene (A), Hydrogen (H) / Oxygen										
Tuno	Pres	ssure [bar]		Consumption [l/h]							
Type Oxygen		(A H)	(A H)		Oxygen		Acetylene (A)		ydrogen (H)		
FKZ-AH 1	0,5 - 1,5	> 0,5		210 - 350 190		190	- 320		580 - 970		
FKZ-AH 2	0,5 - 2,0	> 0,5	> 0,5		20	190	- 380		580 - 1170		
FK-AH 3	1,0 - 3,0	> 0,2	> 0,2		270 - 540 2		240 - 490		750 - 1500		
Part Number	rs:		Spa	are Parts			Те	chnic	al Data		
Tuno	Insert	Heating nozzle	I	njector	Connection		Length		Number		
Туре	complete	Copper	С	hromed	ľ	านt	[mm]		of jets		
FKZ-AH 1	71650808	71650798	7	1601001	716	05980	175		5		
FKZ-AH 2	71650809	71650799	7	1601002 716059		05980	175		7		
FK-AH 3	71650810	71654583	7	1601003	716	05980	175		9		
Other length	Other lengths available on request										

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											
Tuno	Pressure	e [bar]	Consumption [I/h]								
Туре	Oxygen	(A H)	Oxygen	Oxygen Acetyle			Hydrogen (H)				
B3-AH	1,0 - 3,0	0,5	1400 215 -			440	597 - 1220				
Part Number	s:		Spare Parts			Te	chnical Data				
Tuno	Insert	Heating	Injector	Со	nnection		Length				
Туре	complete.	nozzle	Chromed		nut		[mm]				
B3-AH	71604348	71604349	71601003 71605980 311								
Other lengths	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

#### Heating Insert MINITHERM ZD 11/4 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 for gas type: Propane (P), Methane (M) / Compressed Air									
	Pressu	re [bar]		Consumption [l/h]					
Туре	Compressed air	Propane (P) Compressed Methane (M) air		sed	Propane (P)		Μ	lethane (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
<b>Technical Data:</b>	Technical Data:								
Туре	Lengt [mm		Outer Ø nozzle [mm]			Ø Central [mi		ne jet	
ZD 8/2 PM	159			11,5		2			
ZD 11/4 PM	162			15			4	ļ	
Part Numbers:					Spa	re Parts			
Туре	Insert complete	Spare nozzle	Injector		nection nut	O-Ring 7x1,5	5	O-Ring 2,5x1,2	
ZD 8/2 PM	71651600	71602483	7	1601001 7160		05980	6733000	)8	67330009
ZD 11/4 PM	71651602	71602484	7	71601003 71605980 67330008 673		67330009			
Other lengths ava	ilable on reques	it.							



welding and heating torch

#### 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.

- 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 [m <sup>3</sup> /h] O <sub>2</sub> (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 0,2		0,24 - 0,32	228

Part nun	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							

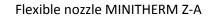






Table torch holder MINITHERM



Table torch holder MINITHERM with insert

#### 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.



#### 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.



#### Version electrical automatic table lighter:

- Battery powered one handed troch ignition box with easily operating ignition function on/off button, ignition spark chamber with ignition electrode and main on/off switch.
- Dimensions: [H x W x L] 70x52x90 mm.
- Batteries: 2 x 1.5 Volt.

Part number:



welding and heating torch

The featherweight

#### 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



welding and heating torch

The featherweight

#### **FORKED TORRCHES**

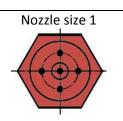
MINITHERM FK-PMYE; FK-AH FUEL GAS (PMYE – AH) / OXYGEN OPERATING DATA, TECHNICAL DATA, PART NUMBERS

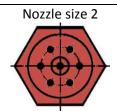


#### Version:

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

	Pressu	re [bar]			Con	sumption []/	h]	Consumption [l/h]						
Туре		Fuel gas				Fuel								
	Oxygen	(P M Y E)	Оху	/gen	(P)	(M)	(Y)	(	E)					
To fit handle	type <b>MINITHE</b>	RM:												
FK-PMYE 1	2,0 - 4,0	> 0,5	420	- 700	112 - 187	263 - 483	150 - 2	50 233	- 389					
FK-PMYE 2	3,0 - 5,0	> 0,5	550	- 840	147 - 224	344 - 525	196 - 3	00 306	- 467					
Operating da	ta for gas type	: Acetylene (A	.), Hydr	rogen (H	I) / Oxygen			÷						
Туре	Oxygen	(A H)	Оху	/gen	Acetyle	ene (A)	Ну	drogen (H	)					
To fit handle	type <b>MINITHE</b>	RM:												
FK-AH 1	2,0 - 4,0	> 0,5	420	- 700	382 -	382 - 636		1170 - 1795						
FK-AH 2	3,0 - 5,0	> 0,5	550	- 840	500 ·	500 - 734		528 - 2039						
<b>Technical dat</b>	:a:													
Weight	Length	Nozzle sta	nd-	Nozzle	s Connection	n Nozz	le	Ø[mm	]					
[g]	[mm]	off [mm	າ]		thread	Outer Ø	[mm]	Flame ci	rcle					
144	210	30 – 35	5		M9x1	9		5,5						
Part numbers	s:													
Туре	Forked to	orch MINITHE	RM con	nplete	Spa	re nozzle	ſ	Nozzle type						
FK-PMYE 1		71650828				.650800		FKZ-PMY 1						
FK-PMYE 2	71650829			71	.650802		FKZ-PMY 2							
FK-AH 1		71650820			71	71650798		FKZ-AH 1						
FK-AH 2		71650821			71	.650799		FKZ-AH 2						



welding and heating torch

The featherweight

#### **FORKED TORCHES**

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	a for gas typ	e PMYE: Propane	e (P), Me	ethane	e (M), MAPP	(Y), Ethyl	lene	e (E) / Oxyge	en	
	Pres	sure [bar]		Consumption [l/h]						
Туре	Ovuran	Fuel gas	0.00	2010		F	ue	gas		
	Oxygen	(P M Y E)	Оху	gen	(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	1	9 - 22	14 - 34	
Z-PMYE 0	0,5 - 2,0	> 0,5	56 -	140	15 - 37	35 - 88	3	19 - 47	29 - 74	
Z-PMYE 1	0,5 - 2,0	> 0,5	120 -	300	32 - 80	75 - 18	8	40 - 100	63 - 158	
Z-PMYE 2	1,0 - 3,0	> 0,5	310 -	570	83 - 152	194 - 35	56	103 - 190	103 - 300	
Z-PMYE 3	1,0 - 5,5	> 0,5	430 -	880	115 - 235	269 - 55	50	143 - 293	226 - 463	
Operating data	a for gas typ	e: Acetylene (A),	Hydrog	en (H)	/ Oxygen					
Туре	Oxygen	(A H)	Оху	gen	Acetyl	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		72 -	181	
Z-AH 0	0,5 - 2,0	> 0,5	56 -	140	51 -	51 - 127		156 ·	156 - 389	
Z-AH 1	0,5 - 2,5	> 0,5	120 -	300	109	109 - 273		333 - 833		
Z-AH 2	1,0 - 3,0	> 0,5	310 -	570	282	282 - 518		861 - 1583		
Z-AH 3	2,0 - 5,5	> 0,5	430 -	880	391	- 800		1194 -	- 2444	
Technical data										
Weight	[g]	Length [mm	n]	Noza	zle stand-off	[ mm]	N	ozzle pipe lei	ngth [mm]	
90		210			30 - 35			100		
Part numbers:		Z٠	-PMYE					Z-AH		
size 00	0	71	650467			-				
size O	0	71	71650468 71650463							
size 0	)	71	71650469 71650464							
size 1		71	71650470 71650465							
size 2		71	650471	550471 71602560						
size 3		71	650472					71650466		



#### RING TORCHES MINITHERM C PROPANE, METHANE, MAPP - ACETYLENE / OXYGEN OPERATING DATA

The featherweight F welding and heating torch

#### Ring torch MINITHERM type C



#### 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	Operating data for gas type: Propane (P), Methane (M), MAPP (Y) / Oxygen									
Turno	Pressu	re [bar]	Consumption [l/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	for gas type: Ac	etylene (A) / Oxy	'gen							
Туре	Oxygen	Acetylene (A)	Оху	/gen	Acetylene (A)					
C2-A-36-3	2,5	0,5	30	05	277					
C2-A-36-5	2,5	0,5	30	05	277					
C3-A-55-7	2,5	0,5	48	85	441					
C3-A-75-7	2,5	0,5	48	85	441					
C3-A-90-8	2,5	0,5	485 441							
Technical data	und Part numbe	rs on the next pa	ge.							



welding and heating torch

The featherweight

#### RING TORCHES MINITHERM C PROPANE, METHANE, MAPP - ACETYLENE / OXYGEN TECHNICAL DATA, PART NUMBERS

# Ring torch MINITHERM type C

#### 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: Type	Weight [g]	Length [mm]	Threading opening [mm]	Inner Ø Ring [mm]	Number of 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	Туре А	Pa	rt number
C2-PMY-36-5	716	50917	C2-A-36-3	7	1650915
C3-PMY-55-7	716	50919	C2-A-36-5	7	1650916
C3-PMY-75-7	716	50921	C3-A-55-7	7	1650918
C3-PMY-90-8	716	50923	C3-A-75-7	7	1650920
-		-	C3-A-90-8	7	1650922



# The featherweight welding and heating torch

#### HAND-CUTTING-TORCH & CUTTING NOZZLES 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



Cutting-Nozzle A-BF



#### 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 Nozzl	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



welding and heating torch

The featherweight

#### IGNITION UNITS FOR HAND TORCHES MECHANICAL GAS ECONOMISER PROPANE, METHANE, MAPP - ACETYLENE / OXYGEN OPERATING DATA, TECHNICAL DATA, PART NUMBERS

Mechanical gas economiser



Mechanical gas economiser with safety valve to monitor the pilot flame



#### 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.

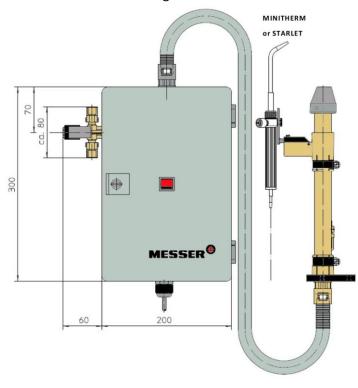
Operating data for gas type: Propane (P) / Oxygen; Acetylene (A) / Oxygen							
Max. operating pressures [bar]							
	Оху	gen			Fuel gas		
	4,	0			0,5		
Technical data:							
Height	Width	Depth		Conne	ctions		
[mm]	[mm]	[mm]		Oxygen	Fuel gas		
337	240	88	G1/4" R	H - Hose 6,3 mm	G3/8" LH – Hose 9 mm		
Part number	rs:						
	Propane (P	) / Oxygen		Acety	lene (A) / Oxygen		
Laid out for	torch type MI	NITHERM:					
	7160	7015			71607014		
Laid out for torch type MINITHERM, also with safety valve to monitor the pilot flame:							
71607588 71607587							



welding and heating torch

The featherweight

#### IGNITION UNITS FOR HAND TORCHES ELECTRICAL GAS ECONOMISER PROPANE, METHANE, MAPP - ACETYLENE / OXYGEN TECHNICAL DATA, PART NUMBERS



#### Electrical gas economiser

#### 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 [mm]	Width [mm]	Depth [mm]	Connections Oxygen Fuel gas					
300	200 + 60	120	G1/4" R	H - hose 6,3 mm	G3/8" LH - hose 9 mm			
Part numbe	rs:							
	24 V - 50	)/60 Hz		23	30 V – 50/60 Hz			
	71605	5756			71605755			



The featherweight welding and heating torch

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



# Adjustment valve – fuel gas

#### 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 thr	ead – Outlet cap nut	: (Installed on	torch inlet)	
Gas 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 – O	utlet external thread	:		
Oxygen	G1/4" RH	40		6	71803907
Fuel gas	G3/8" LH	40		9	71803909
Distribution piece:			Gas type	Connection	Part No
	Version: • 1x inlet (nu	t), 2x outlets (m thre	Oxygen	G1/4" RH	51211653
	• One adjust Application:	ment knob per outlet	Acetylen	e G3/8" LH	51211602
S. S.	<ul> <li>Splitting the two torche</li> </ul>	e gas supply betweer s.	Fuel gas	G3/8" LH	71655018



The featherweight welding and heating torch

#### ACCESSORIES 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. 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:**

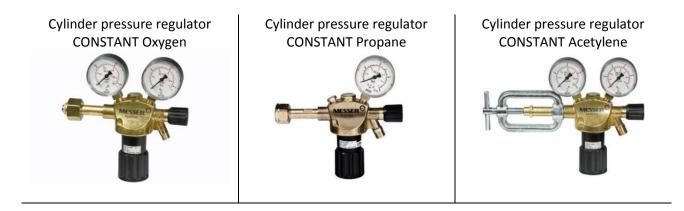
• To protect against creeping and sudden gas back-flow and against back-fires.

Type Gas type		Connect	Connections Flow rate air with inlet p				Ρ	art No.		
DGN-	DK	Oxygen	G1/4"	RH	2,35 – 33,	0 [0,3 – 5,0]		0	463827	
DGN-	DK	Fuel gas	G3/8"	LH	2,35 – 33,0 [0,3 – 5,0]			0463826		
DGN		Oxygen	G1/4"	RH	2,35 – 33,0 [0,3 – 5,0]			0463386		
DGN		Fuel gas	G3/8"	LH	2,35 – 33,0 [0,3 – 5,0]			0463385		
DG 91 N Oxygen		Oxygen	G1/4"	RH	3,50 – 45,0 [0,3 –		0463831		463831	
DG 93	DG 91 N Fuel gas G3/8" LH 3,50 – 45,0 [0,3 – 5,0]		0463829		463829					
Test unit for safety devices										
Test unit PVGD for annual testing of safety devices.								0463825		
Conversion factor U to calculate the gas flow rate for gas type:										
Air	Oxygen	Propane (P	) Metha	ne (M)	MAPP (Y)	Ethylene (E)		Acetylene (A)		
1	0,95	0,9; (1,0 at p=0,7	7) 1,	40	0,80 1,012		2	1,20		
Max. Gas flow rate: Volume Gas = Volume Air x Conversion factor U [m <sup>3</sup> /h]										
	Oxygen		Fuel gas			Non-flammable gas			asses	
Inlet	Outlet	PartNo.	Inlet	Outlet	PartNo.	Inlet	Outle	t	PartNo.	
Coupling pin D4 – Outlet external:										
Coupling	G1/4" RH	0463430	-	-	-	Coupling	G1/4"	RH	0463433	
Coupling	g G3/8" RH	0463431	Coupling	G3/8" LH	0463432	Coupling	G3/8"	RH	0463434	
DKD – Eu	iro-Coupli <u>ng</u> :	Inlet cap nut	:							
G1/4" RH	Coupling	0463312	0463312 - ·		-	G1/4" RH	Coupli	ng	0463313	



#### **MINITHERM®** The featherweight welding and heating torch

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



#### 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 max. outlet Type CONSTANT 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			



welding and heating torch

The featherweight

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

Double thread connectors



#### 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.

#### Angle connections



#### 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 connection	s:							
Thread G1 and G2 [Inch]	Total length [mm]		ad length G2 [mm]	Spanner size [mm]	Part No.			
G1/4" RH	34	12		14	71826006			
G1/4" LH	34	12		14	71650376			
G3/8" RH	37	37		17	70101361			
G3/8" LH	37		13,5	17	71826008			
90° angle connections:								
Thread G1 (female) a	Part numbers							
G1/4'	71826666							
G1/4'	71826669							
	G3/8" RH				71826667			
G3/8'	71826670							
Spare Parts / Accessories:								
Hanging Knob		71606336						
Connection nut			71605980					
O-Ring 7 x 1,5		67330008						
O-Ring 2,5 x 1,2		67330009						
Adjustment valve for fuel		71606418						
gas or oxygen			,100					
	Oxygen			Fuel gas				
Hose DN 3,2 mm 0140079			0140078					
Hose tail 3,2 71601160			71601161					
Cap nut (EH) 70050030			70050040					
Cap nut (BH)	70050130			70050040				
Cap nut (FH)	71602051			71602052				
1-Ear hose clamps	0800487			0800487				
1-Ear hose claim pliers	0994052			0994052				





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