

Autogenous technology catalogue 2010/2011



**Mechanische
Werkstätten Wurzen GmbH**
autogenous cutting and welding technologie
mould production





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Welding kit - standard equipment



fuel gas: **acetylene**

hose connections according to DIN EN 560: oxygen G 1/4"
fuel gas G 3/8" LH

consisting of:

1 handle, 4 welding attachments, 1 cutting attachment with lever valve, 1 multiple wrench, 1 nozzle cleaning set, 1 nozzle case, 1 steel sheet box

welding range	cutting range	handle	stock no.
0.5–6 mm	5–60 mm	MWW 520/1	00110
		Brenner 90 W	00110 G
1–9 mm	5–60 mm	MWW 520/1	00110 A
		Brenner 90 W	00110 A G

Universal-autogenous appliances MWW 520/1



fuel gas: **acetylene**

hose connections according to DIN EN 560: oxygen G 1/4"
fuel gas G 3/8" LH

consisting of:

1 handle, alternatively 6 or 8 welding attachments, 1 cutting attachment alternatively with lever valve or spindle valve, 1 multiple wrench, 1 nozzle cleaning set, 1 nozzle case, 1 protection goggles, 1 guide block, 1 radius bar for circular cuts, 1 gas lighter, 1 steel sheet box

model: **with lever valve**

welding range	cutting range	handle	stock no.
0.5–14 mm (6 welding attachments)	5–100 mm	MWW 520/1	20011
		Brenner 90 W	20011 G
0.5–30 mm (8 welding attachments)	5–300 mm	MWW 520/1	20011 A
		Brenner 90 W	20011 A G

model: **with spindle valve**

welding range	cutting range	handle	stock no.
0.5–14 mm (6 welding attachments)	5–100 mm	MWW 520/1	00111
		Brenner 90 W	00111 G
0.5–30 mm (8 welding attachments)	5–300 mm	MWW 520/1	00111 A
		Brenner 90 W	00111 A G

Pipe welding appliance



fuel gas: **acetylene**

hose connections according to DIN EN 560: oxygen G 1/4"
fuel gas G 3/8" LH

consisting of:

1 handle, 4 pipe welding attachments (bendable), 1 cutting attachment with lever valve, 1 multiple wrench, 1 nozzle cleaning set, 1 nozzle case, 1 protection goggles, 1 welding mirror, 1 steel sheet box

welding range	cutting range	handle	stock no.
1–9 mm	5–100 mm	MWW 520/1	00561
		Brenner 90 W	00561 G

The cutting range can be extended to 300 mm.

Multiple-purpose appliance



fuel gas: **acetylene**

hose connections according to DIN EN 560: oxygen G 1/4"
fuel gas G 3/8" LH

consisting of:

1 handle, 2 pipe welding attachments (bendable), 2 pipe welding attachments (bend 90°), 1 cutting attachment with lever valve, 1 multiple wrench, 1 nozzle cleaning set, 1 nozzle case, 1 steel sheet box

welding range	cutting range	handle	stock no.
2–6 mm	5–60 mm	MWW 520/1	00112
		Brenner 90 W	00112 G

Propane-Universal MWW 520/1



fuel gas: **propane**

This appliance can only be used for welding with propane-oxygen when using a CO₂-welding wire.

hose connections according to DIN EN 560: oxygen G 1/4"
fuel gas G 3/8" LH

consisting of:

1 handle, 4 welding attachments with heat accumulator, 1 cutting attachment with lever valve, 1 multiple wrench, 1 nozzle cleaning set, 1 nozzle case, 1 protection goggles, 1 guide block, 1 radius bar for circular cuts, 1 steel sheet box

welding range	cutting range	handle	stock no.
0.5–9 mm	5–100 mm	MWW 520/1	00213
		Brenner 90 W	00213 G

Hand cutting torch GM 93 (gas mixing torch)

fuel gases: **acetylene, propane, natural gas (methane)**

cutting range: 3–500 mm (according to the use of the gas mixing nozzle)

The mixing nozzle has to be ordered separately according to its use and cutting range (see page 28).

hose connections according to DIN EN 560: oxygen G 1/4"
fuel gas G 3/8" LH

model: **head 90° angled**



total length approx.	stock no.
480 mm	10300
600 mm	10300/60
900 mm	10300/90

model: **head 70° angled**



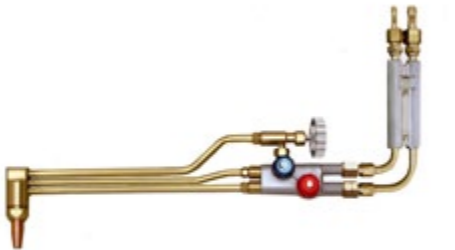
total length approx.	stock no.
480 mm	11300
600 mm	11300/60
900 mm	11300/90

model: **head straight**



total length approx.	stock no.
530 mm	12300
650 mm	12300/60
950 mm	12300/90

model: **head 90° angled, handle 90° bent**



total length approx.	stock no.
370 mm	10399/1
480 mm	10399/2

Other lengths and torch head angles are available on special request.

Hand cutting torch Brenner 90 (injector torch)

fuel gases: **acetylene, propane, natural gas (methane), alternative gases**

cutting range: 5–300 mm

The standard equipment with the corresponding heating and cutting nozzles is for a cutting range up to 15 mm. Other required equipment has to be ordered separately (see page 24 for cutting nozzles and page 25 for heating nozzles).

hose connections according to DIN EN 560: oxygen G 1/4"
fuel gas G 3/8" LH

model: **head 90° bent**



head Ø	total length approx.	stock no.
28 mm	480 mm	01091
	600 mm	01091/60
	900 mm	01091/90
24 mm	480 mm	01122
	600 mm	01122/60
	900 mm	01122/90
flat head	480 mm	01151
	600 mm	01151/60
	900 mm	01151/90

model: **head 60° bent**



head Ø	total length approx.	stock no.
28 mm	480 mm	01101
	600 mm	01101/60
	900 mm	01101/90
24 mm	480 mm	01131
	600 mm	01131/60
	900 mm	01131/90

model: **head straight**



head Ø	total length approx.	stock no.
28 mm	480 mm	01111
	600 mm	01111/60
	900 mm	01111/90
24 mm	480 mm	01141
	600 mm	01141/60
	900 mm	01141/90

Other lengths and torch head angles are available on special request.

Hand cutting torch Brenner 90 (injector torch)

fuel gases: **acetylene, propane, natural gas (methane), alternative gases**

cutting range: 5–300 mm

hose connections according to DIN EN 560: oxygen G 1/4"
fuel gas G 3/8" LH

type: **head (Ø 28 mm) 90° bent, handle 90° bent**



total length approx.	stock no.
400 mm	01161/3

type: **head (Ø 24 mm) bent up 60°**



total length approx.	stock no.
310 mm	01161/1

The standard equipment with the corresponding heating and cutting nozzles is for a cutting range up to 15 mm. Other required equipment is to be ordered separately (see page 24 for cutting nozzles and page 25 for heating nozzles).

Other lengths and torch head angles are available on special request.

Hand cutting torch Brenner 90 Special

fuel gases: **acetylene, propane, natural gas (methane)**

cutting range: 300–500 mm

hose connections according to DIN EN 560: oxygen G 3/8"
fuel gas G 3/8" LH

type: **head (Ø 28 mm) 90° bent**

Suitable for cutting nozzle K 7 s (see page 24) and heating nozzle with a head diameter of 28 mm (see page 25).

total length approx.	stock no.
480 mm	01091 SP
600 mm	01091/60 SP
900 mm	01091/90 SP

Other lengths and torch head angles are available on special request (analogous to the hand cutting torch Brenner 90).



Special cutting torch MWW 520/1 (injector torch)

fuel gases: **acetylene, propane, natural gas (methane)**

cutting range: 5–300 mm or 100–500 mm

set consisting of: 1 cutting attachment, 1 handle MWW 520/1 Special, 1 multiple wrench, 1 nozzle case

Suitable cutting nozzles on page 24, heating nozzles on page 25.



fuel gas	cutting range	stock no.
acetylene	5–300 mm	00361
	100–500 mm	00351
propane, natural gas	5–300 mm	00362
	100–500 mm	00352

also available as single components

fuel gas	total length	cutting range	stock no.
acetylene	300 mm	5–300 mm	21701
	450 mm	5–300 mm	21701 L
	450 mm	100–500 mm	21721
propane, nat. gas	300 mm	5–300 mm	21702
	450 mm	100–500 mm	21722



Rescue cutting torch MWW 520/1

fuel gases: **acetylene, propane, natural gas (methane), alternative gases**

cutting range: 5–100 mm (can be extended to 300 mm) Suitable cutting nozzles on page 24, heating nozzles on page 25.

set consisting of: 1 cutting attachment, 1 handle MWW 520/1, 1 multiple wrench, 1 nozzle case, 1 nozzle cleaning set



total length	stock no. with spindle valve		stock no. with lever valve	
	straight	angled	straight	angled
600 mm	00451	00471	00451 H	00471 H
1050 mm	00476	00475	00476 H	00475 H
1500 mm	00461	00481	00461 H	00481 H

also available as single components

total length	stock no. with spindle valve		stock no. with lever valve	
	straight	angled	straight	angled
450 mm	00452	00472	00452 H	00472 H
900 mm	00478	00477	00478 H	00477 H
1350 mm	00462	00482	00462 H	00482 H



Other lengths are available on special request.

High-capacity cutting torch 485 (injector torch)



fuel gases: **acetylene, propane, natural gas (methane)**

Injector torch for cutting inhomogeneous parts (tube bundles, stacks of sheet), slabs, steel ingots, steel casting, forging and steel scrap.

standard length: 1000 mm
(on request other lengths and special forms available)

hose connections according to DIN EN 560:

heating oxygen	G 3/8"
cutting oxygen	G 1/2"
fuel gas	G 3/8" LH

Cutting nozzles, heating nozzles, shield and control manometer are to be ordered separately in the case of application.

type	head	stock no.
485.1	30° bent	35100
485.2	straight	35110

Cutting nozzles

type	cutting range	stock no.
KL 1	up to 300 mm	35160
KL 2	300–500 mm	35165
KL 3	500–700 mm	35170
KL 4	700–900 mm	35175

Heating nozzles

fuel gas	type	cutting range	stock no.
acetylene	A 1	up to 700 mm	35180
	A 2	700–900 mm	35185
propane, methane	PM 1	up to 700 mm	35190
	PM 2	700–900 mm	35195

Accessories

type	stock no.
shield (see figure above)	35381
control manometer (see figure above)	35332

Powder cutting torch (injector torch)



fuel gases: **acetylene, ethylene**

Injector torch for cutting highly alloyed steel, cast iron and non-ferrous metal.

cutting range: up to 300 mm
standard length: 1200 mm (other lengths on request)

hose connections according to DIN EN 560:

oxygen	G 1/4"
fuel gas	G 3/8" LH
powder	G 3/8"

type	head	stock no.
Brenner 90 PV I	straight	65100
Brenner 90 PV II	90° bent	65200

The torch consists of basic equipment and a powder cap. Cutting nozzles and heating nozzles are to be ordered separately in the case of application.

Cutting nozzles

type	cutting range	stock no.
PV 1	5–15 mm	65131
PV 2	15–30 mm	65132
PV 3	30–60 mm	65133
PV 4	60–100 mm	65134
PV 5	100–200 mm	65135
PV 6	200–300 mm	65136

Powder heating nozzles

fuel gas	type	cutting range	stock no.
acetylene	APU 1	5–60 mm	65121
	APU 2	60–100 mm	65122
	APU 3	100–300 mm	65123
ethylene	YPU 1	5–60 mm	65126
	YPU 2	60–100 mm	65127
	YPU 3	100–300 mm	65128

Accessories

type	stock no.
powder cap	65110



Handles

Handle Brenner 90 W

fuel gases: **acetylene, propane, natural gas (methane), alternative gases**

With slit for lever valve and monoblock valves.

hose connections according to DIN EN 560: oxygen G 1/4"
fuel gas G 3/8" LH

model: **standard**



hose coupling nipples/coupl. nuts	attachment coupling nut 00010	stock no.
included	not included	21250/1
not included	included	21350/1

model: **with hexagonal connecting pieces**



hose coupling nipples/coupl. nuts	attachment coupling nut 00010	stock no.
included	not included	21250/S
not included	included	21350/S

model: **with quick-coupling connection**

supply without quick-couplings (see page 37).



	stock no.
	21250/K

Handles

Handle MWW 520/1

fuel gases: **acetylene, propane, natural gas (methane), alternative gases**

hose connections according to DIN EN 560: oxygen G 1/4"
fuel gas G 3/8" LH

model: **standard**



hose coupling nipples/coupl. nuts	attachment coupling nut 00010	stock no.
included	not included	40800/1
not included	included	40900/1

model: **with rapid-action oxygen valve**



	stock no.
	21240/1

model: **with hexagonal connecting pieces**



hose coupling nipples/coupl. nuts	attachment coupling nut 00010	stock no.
included	not included	40800/S
not included	included	40900/S

model: **with quick-coupling connection**

supply without quick-couplings (see page 37).



	stock no.
	40800/K

Handle MWW 520/1 Special with rapid-action oxygen valve



fuel gases: **acetylene, propane, natural gas (methane), alternative gases**

for special cutting torch MWW 520/1

for welding and preheating attachment 30–100 mm

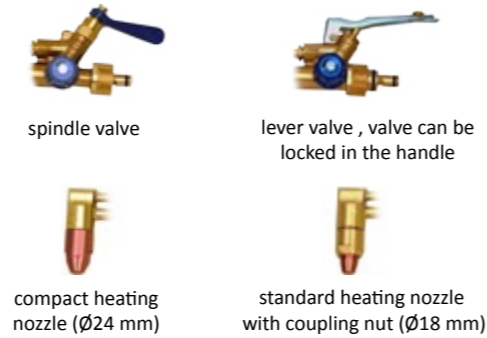
hose connectors according to DIN EN 560: oxygen G 3/8"
fuel gas G 3/8" LH

	stock no.
	21241/1

Cutting attachments (injector principle)

The following cutting attachments are available with lever or spindle valve. In addition it is possible to employ a compact heating nozzle instead of a standard heating nozzle with coupling nut (see figures on the right side)

The cutting attachments may be employed with the handles Brenner 90 W (page 14) and MWW 520/1 (page 15).



Cutting attachment MWW 520/1 (injector principle)

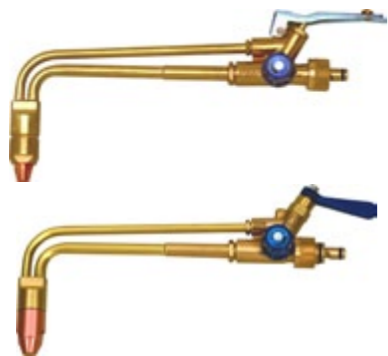


fuel gases: **acetylene** (standard), **propane**, **alternative gases** (please indicate when ordering)

Cutting nozzle K 1 included. Suitable cutting nozzles on page 24, heating nozzles on page 25.

model	nozzle type	stock no.
lever valve	with standard heating nozzle	44010
	with compact heating nozzle	44010/K
spindle valve	with standard heating nozzle	20610
	with compact heating nozzle	20610/K

Cutting Attachment round head MWW 520/1 (injector principle)



fuel gases: **acetylene** (standard), **propane**, **alternative gases** (please indicate when ordering)

Cutting nozzle K 1 included. Suitable cutting nozzles on page 26, heating nozzles on page 25.

model	nozzle type	stock no.
lever valve	with standard heating nozzle	20591
	with compact heating nozzle	20591/K
spindle valve	with standard heating nozzle	55000
	with compact heating nozzle	55000/K

Cutting attachment MWW 520/1 straight (injector principle)



fuel gases: **acetylene** (standard), **propane**, **alternative gases** (please indicate when ordering)

Cutting nozzle K 1 included. Suitable cutting nozzles on page 24, heating nozzles on page 25.

model	stock no.
lever valve	44000/H
spindle valve	44000/S

Cutting attachments

Cutting attachment flat head MWW 520/1 (injector principle)



fuel gases: **acetylene**

Suitable cutting nozzles on page 24, heating nozzles on page 25.

model	stock no.
lever valve	45000/H
spindle valve	45000/S

Cutting attachment for flame gouging MWW 520/1 (injector principle)



fuel gases: **acetylene** (standard), **propane** (please indicate when ordering)

Gouging nozzle F 1 included. Suitable gouging nozzles on page 24, heating nozzles on page 25.

head: **60° bent**

model	stock no.
lever valve	46002/H
spindle valve	46002/S



head: **30° bent**

model	stock no.
lever valve	46001/H
spindle valve	46001/S



head: **straight**

model	stock no.
lever valve	46000/H
spindle valve	46000/S

Rivet head cutting attachment MWW 520/1 (injector principle)



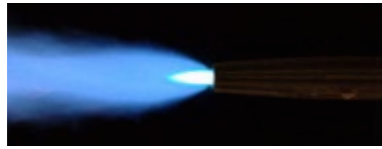
fuel gases: **acetylene** (standard), **propane** (please indicate when ordering)

complete with 1 cutting nozzle up to 40 mm, 1 cutting nozzle 40–80 mm

model	stock no.
lever valve	00781/H
spindle valve	00781/S

Unless otherwise stated, the handles Brenner 90 W (see page 14) and MWW 520/1 (see page 15) are to be used.

Welding attachments



fuel gas: **acetylene**

Copper flame heating nozzle with a central hole.
Suitable nozzles see page 26.

welding range		stock no.
0.5–1 mm		25221
1–2 mm		26611
2–4 mm		26271
4–6 mm		26771
6–9 mm		27301
9–14 mm	link cylinders	27571
14–20 mm	link cylinders	28101
20–30 mm	link cylinders	28591

For these attachments the handle MWW 520/1 Special is inevitable.

welding range		stock no.
30–50 mm	link cylinders	20881
50–100 mm	link cylinders	20891

Welding attachments for propane with heat accumulator

fuel gas: **propane**

Suitable nozzles on page 26.

welding range		stock no.
0.5–2 mm		25152
2–4 mm		26152
4–6 mm		26652
6–9 mm		27152

Pipe welding attachment



fuel gas: **acetylene**

Suitable nozzles on page 26.

welding range	stock no.	
	90° bent	60° bent
1–2 mm	06191	06195
2–4 mm	06240	06200
4–6 mm	06740	06700
6–9 mm	07270	07220

Pipe welding attachments, bendable



fuel gas: **acetylene**

Slightly bendable copper tube with brazed-on welding nozzle (see page 26).

welding range	stock no.
1–2 mm	10200
2–4 mm	10210
4–6 mm	10220
6–9 mm	10230

Flame heating attachments for propane



fuel gas: **propane**

Copper flame heating nozzle with a central hole.

Suitable nozzles on page 26.

operating range		stock no.
0.5–1 mm		25222
1–2 mm		26612
2–4 mm		26272
4–6 mm		26772
6–9 mm		27302
9–14 mm		27572
14–20 mm	link cylinders	28102
20–30 mm	link cylinders	28592

For these attachments the handle MWW 520/1 Special is necessary.

operating range		stock no.
30–50 mm	link cylinders	20882
50–100 mm	link cylinders	20892

Unless otherwise stated, the handles Brenner 90 W (see page 14) and MWW 520/1 (see page 15) are to be used.

Preheating attachment with multihole nozzle

fuel gases: **acetylene, propane**

Copper preheating nozzle with several circularly arranged holes.

Suitable nozzles on page 27.



operating range	stock no.	
	acetylene	propane
1–2 mm	20911	20912
2–4 mm	20921	20922
4–6 mm	20961	20962
6–9 mm	20971	20972
9–14 mm	link cylinders	20931
14–20 mm	link cylinders	20941
20–30 mm	link cylinders	20951

For these attachments the handle MWW 520/1 Special is inevitable.

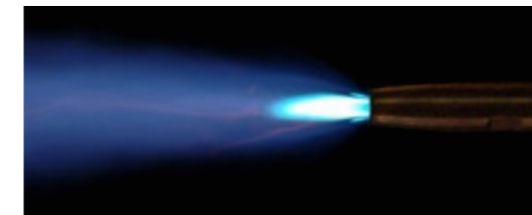
operating range	stock no.	
	acetylene	propane
30–50 mm	link cylinders	20861
50–100 mm	link cylinders	20871



Preheating attachment for alternative gases

fuel gases: **ethylene, propylene, natural gas (methane), propane**

Copper preheating nozzle with a central hole and several circularly arranged holes. Suitable nozzles on page 27.



operating range	stock no.
14–20 mm	38905
20–30 mm	38915
30–50 mm	38925
50–100 mm	38935
100–150 mm	38945
150–200 mm	38955

Preheating attachment with two-piece nozzle

fuel gas: **acetylene**

Brass preheating nozzle with several holes arranged in several partial circles. Suitable nozzles on page 27.



operating range	length approx.	stock no.
20–30 mm	350 mm	20853
30–50 mm	450 mm	20854
50–100 mm	600 mm	20855

Unless otherwise stated, the handles Brenner 90 W (see page 14) and MWW 520/1 (see page 15) are to be used.

Flame cleaning attachment



fuel gases: **acetylene, propane**

head width	stock no.	
	acetylene	propane
30 mm	20601	20662
60 mm	20611	20672
100 mm	20621	20682
150 mm	20631	20692
200 mm	20641	20752
300 mm	20651	20762

Flame straightening attachment (stainless steel mixing tubes)

fuel gas: **acetylene**

2 adjustable wheel holders. Nozzle distance of 30 mm.

Suitable nozzles on page 26.

model: **3-fold**

mixing tube length approx.	welding nozzle	stock no.
500 mm	2–4 mm	20525/11
	4–6 mm	20525/12
	6–9 mm	20525/13
870 mm	2–4 mm	20525/8
	4–6 mm	20525/9
	6–9 mm	20525/10

model: **5-fold**

mixing tube length approx.	welding nozzle	stock no.
500 mm	2–4 mm	20535/11
	4–6 mm	20535/12
	6–9 mm	20535/13
870 mm	2–4 mm	20535/8
	4–6 mm	20535/9
	6–9 mm	20535/10



Flame straightening attachment (brass mixing tube)

fuel gas: **acetylene**

brass mixing tube, 2 adjustable wheel holders, nozzle distance of 30 mm, welding nozzle with a welding range of 4–6 mm (see page 26).

model: **2-fold**

mixing tube length approx.	stock no.
400 mm	20510
750 mm	20515

model: **3-fold**

mixing tube length approx.	stock no.
400 mm	20520
750 mm	20525

model: **5-fold**

mixing tube length approx.	stock no.
400 mm	20530
750 mm	20535

Other welding nozzles, nozzle distances and lengths are available on special request.



Flame straightening attachment with central guide bar

fuel gas: **acetylene**

2 welding nozzles with a welding range of 6–9 mm (see page 26).

stock no.
20550



Cutting nozzles



K 1 – K 6 suitable for:

- Brenner 90 (page 9)
- Special cutting torch MWW 520/1 (page 11)
- Rescue cutting torch MWW 520/1 (page 11)
- Cutting attachment MWW 520/1 (page 16)

K 7 s suitable for:

- Hand cutting torch 90 Special (page 10)
- Special cutting torch MWW 520/1 (page 11)

model	cutting range	stock no.	
		brass	copper
K 1	5–15 mm	41260 MS	41260 CU
K 2	15–30 mm	41270 MS	41270 CU
K 3	30–60 mm	41280 MS	41280 CU
K 4	60–100 mm	41290 MS	41290 CU
K 5	100–200 mm	41300 MS	41300 CU
K 6	200–300 mm	41310 MS	41310 CU
K 7 s	300–500 mm	41360 MS	41360 CU

Cutting nozzles for flat head



Suitable for cutting attachment flat head MWW 520/1 (page 17).

model	cutting range	stock no.
HS 1	3–12 mm	40350
HS 2	12–25 mm	40360
HS 3	25–40 mm	40370
HS 4	40–65 mm	40380
HS 5	65–100 mm	40390
HS 6	100–150 mm	40400
HS 7	150–200 mm	40410
HS 8	200–300 mm	40420

Gouging nozzles



Suitable for cutting attachment for flame gouging MWW 520/1 (page 17).

model	depth of joint	width of joints	stock no.	
			brass	copper
F 1	3–4 mm	8–10 mm	40430 MS	40430 CU
F 2	4–6 mm	10–13 mm	40440 MS	40440 CU
F 3	6–8 mm	13–18 mm	40450 MS	40450 CU
F 4	8–12 mm	18–22 mm	40455 MS	40455 CU

Heating nozzles



fuel gases: **A = acetylene, P = propane, M = natural gas (methane), Y = gas mixtures**

Suitable for the cutting attachments MWW 520/1, round head MWW 520/1, MWW 520/1 straight and cutting attachment for flame gouging MWW 520/1 (page 16) as well as for Brenner 90 (page 9), Brenner 90 Special (page 10), Special cutting torch MWW 520/1 and Rescue cutting torch MWW 520/1 (page 11).

operating range: **5–100 mm**

head Ø	stock no.			
	A 1	P 1	M 1	Y 1
18 mm	40300	40520	40525	40305
24 mm	37720	37740	-	37680
28 mm	37700	37750	01732	37755

operating range: **100–300 mm**

head Ø	stock no.			
	A 2	P 2	M 2	Y 2
18 mm	40310	40530	40526	40315
24 mm	37730	37745	-	37690
28 mm	37710	37760	01742	37765

operating range: **300–500 mm**

head Ø	stock no.		
	A 3 s	P 3 s	M 3 s
28 mm	01750	01751	01752

Heating nozzles for flat head



Suitable for cutting attachment flat head MWW 520/1 (see page 17).

model	operating range	stock no.
HA 1	3–25 mm	40320
HA 2	25–100 mm	40330
HA 3	100–300 mm	40340

Welding nozzles



fuel gas: **acetylene**

Suitable for welding attachments on page 18 and flame straightening attachments on page 22 and 25.
Up to 20-30 mm also available in brass (please indicate when ordering).

welding range	stock no.	welding range	stock no.
0.5–1 mm	05070	9–14 mm	07560
1–2 mm	05560	14–20 mm	08060
2–4 mm	06060	20–30 mm	08560
4–6 mm	06560	30–50 mm	08552
6–9 mm	07070	50–100 mm	08553



Short welding nozzles (CU) suitable for pipe welding attachments on page 19.

welding range	stock no.	welding range	stock no.
1–2 mm	06194	4–6 mm	06710
2–4 mm	06210	6–9 mm	07230

Welding nozzles for propane



fuel gas: **propane** (for attachments with heat accumulator)
Suitable for welding attachments on page 18.

welding range	stock no.	welding range	stock no.
0.5–2 mm	05160	4–6 mm	06660
2–4 mm	06160	6–9 mm	07160

Nozzles for pipe welding attachment, bendable



fuel gas: **acetylene**
Suitable for pipe welding attachments, bendable on page 19.

welding range	stock no.	welding range	stock no.
1–2 mm	10205	4–6 mm	10225
2–4 mm	10215	6–9 mm	10235

Flame heating nozzles for propane



fuel gas: **propane**
Suitable for Preheating attachments for propane on page 19.

operating range	stock no.	operating range	stock no.
0.5–1 mm	05072	9–14 mm	07551
1–2 mm	05562	14–20 mm	08051
2–4 mm	06062	20–30 mm	08551
4–6 mm	06562	30–50 mm	08554
6–9 mm	07072	50–100 mm	08555

Preheating multi-hole nozzle



fuel gases: **acetylene, propane**

Copper preheating nozzle with several holes arranged on a circle.
Suitable for preheating attachment with multihole nozzle on page 20.

operating range	stock no.	
	acetylene	propane
1–2 mm	20995	21006
2–4 mm	20994	21005
4–6 mm	20993	21004
6–9 mm	20992	21003
9–14 mm	20991	21002
14–20 mm	08070	21012
20–30 mm	08570	21022
30–50 mm	21031	21042
50–100 mm	21051	21062

Preheating nozzle for alternative gases



fuel gases: **ethylene, propylene, natural gas (methane), propane**

Copper preheating nozzle with a central hole and several smaller holes arranged in a circle. Suitable for preheating attachments for alternative gases (page 21).

operating range	model	stock no.
14–20 mm	F-AWD 1	38901
20–30 mm	F-AWD 2	38911
30–50 mm	F-AWD 3	38921
50–100 mm	F-AWD 4	38931
100–150 mm	F-AWD 5	38941
150–200 mm	F-AWD 6	38951

Preheating two-piece nozzle



fuel gas: **acetylene**

Brass preheating nozzle with several holes arranged in several partial circles.
Suitable for preheating attachment with two-piece nozzle on page 21.

operating range	stock no.
20–30 mm	21023
30–50 mm	21033
50–100 mm	21053

Cutting nozzle AGN



one-piece
fuel gas: **acetylene**

cutting range	stock no.
3–10 mm	41510
10–25 mm	41520
25–40 mm	41530
40–60 mm	41540
60–100 mm	41550
100–200 mm	41560
200–300 mm	41570
300–500 mm	41580

Cutting nozzle PNME



two-piece
fuel gases: **propane, natural gas (methane)**

cutting range	stock no.
3–10 mm	41512
10–25 mm	41522
25–40 mm	41532
40–60 mm	41542
60–150 mm	41552
150–300 mm	41562
300–500 mm	41582

Scrap cutting nozzle – System Coolex –



one-piece
fuel gas: **acetylene**

cutting range	stock no.
up to 50 mm	41410
50–100 mm	41420
100–200 mm	41430
200–300 mm	41440
300–500 mm	41450



two-piece
fuel gases: **propane, natural gas (methane)**

cutting range	stock no.
up to 50 mm	41412
50–100 mm	41422
100–200 mm	41432
200–300 mm	41442
300–500 mm	41452

Component parts

Guide block UAG-round head



Suitable for cutting attachment MWW 520/1 (page 16) and hand cutting torch Brenner 90 with 24 mm head Ø (page 9).

model	stock no.
Ø 24 mm	24000

Guide block round head



Suitable for special cutting attachment MWW 520/1 (page 11), hand cutting torch Brenner 90 with 28 mm head Ø (page 9) and hand cutting torch GM 93 (page 8).

model	stock no.
Ø 28 mm	35730

Guide block UAG-flat head



Suitable for cutting attachment flat head MWW 520/1 (page 17) and hand cutting torch Brenner 90 with flat head (page 9).

	stock no.
	39400

Guide block flat head



Suitable for cutting attachment flat head MWW 520/1 (page 17) and hand cutting torch Brenner 90 with flat head (page 9).

	stock no.
	41800

Unicycle guide block for hand cutting torches



head Ø	stock no.
24 mm	35850
28 mm	35850/1

Circular guide block for hand cutting torches



model: **24 mm diameter of head**

Suitable for cutting attachment MWW 520/1 (page 16) and hand cutting torch Brenner 90 with 24 mm head Ø (page 9).

operating range	stock no.
Ø 40 mm – Ø 120 mm	41700



model: **28 mm diameter of head**

Not for the usage with a circular bar.
Suitable for special cutting attachment MWW 520/1 (page 11), hand cutting torch Brenner 90 with 28 mm head Ø (page 9) and hand cutting torch GM 93 (page 8).

operating range	stock no.
Ø 30 mm – Ø 150 mm	35780

Radius bar for circular cuts



Operating range in connection with guide blocks with stock numbers 24000, 35730, 39400, 41800, 41700 up to a maximum of Ø 700 mm.

	stock no.
	24500

Hose coupling nipple (double nipple)



Ø hose	stock no.
6 mm	60601
9 mm	60602

Hose coupling



gas type	model	stock no.
oxygen	G 1/4"	20001
fuel gas	G 3/8" LH	21001

Double threaded union



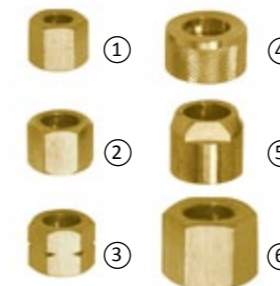
gas type		Bestell-Nr.
oxygen G 1/4"	for stock no. 20001	50044
acetylene G 3/8" LH	for stock no. 21001	50046

Hose coupling nipple



NW	threaded connector	stock no.
6,3 mm	G 1/4"	01080
6,3 mm reduced	G 3/8"	01280
9 mm	G 3/8"	01090
13 mm	G 1/2"	01086

Coupling nut



suitable for	stock no.
① G 1/4" (oxygen hose coupling nipple)	01100
② G 3/8" (oxygen hose coupling nipple)	01290
③ G 3/8" LH (fuel gas hose coupling nipple)	01110
④ handle-attachment	00010
⑤ head cutting attachment for heating nozzle 18 mm	40070
⑥ G 1/2"	01120

Multiple wrench



stock no.
40480

Nozzle cleaning set



stock no.
03031

Protection goggles



model	stock no.
dark glasses	00070
hinged (light and dark glasses)	00075

Gas lighter



flint included

model	stock no.
with exchangeable flat file	00060
with exchangeable roller file	00065

Welding mirror



model	stock no.
welding mirror with handgrip	00350
magnet welding mirror	00353

O-Rings



measures	stock no.
5 x 1.75 mm	37660
6 x 2 mm	40200
7 x 2 mm	40250
8 x 2 mm	01570
10 x 2 mm	37650
12 x 2 mm	40290
14 x 2 mm	40280
16 x 2 mm	41100
18 x 2 mm	01230

Hose holder



type	measures	stock no.
plastic	11 x 11 mm	60519
	16 x 16 mm	60520
zinc coated steel	13 x 13 mm	60521
	16 x 16 mm	60522

Hose clamps



width: 8 mm

hose - outer diameter	stock no.
8–12 mm	60509
10–16 mm	60511
12–22 mm	60512

Double extraction valve



completed with hose coupling nipples and coupling nuts

gas type	model	stock no.
oxygen	G 1/4"	00149
acetylene	G 3/8" LH	00159

Twin hose



gas types: **oxygen/acetylene**

Twin 4 x 3.5/4 x 3,5 mm, outer diameter 11 mm
 Twin 6 x 3.5/6 x 3,5 mm, outer diameter 13 mm
 Twin 9 x 3.5/6 x 5 mm, outer diameter 16 mm

model	stock no.		
	4 mm/4 mm	6 mm/6 mm	6 mm/9 mm
running meter	60914	60916	60910

completely mounted with connections
 (Twin 9 x 3.5/6 x 5 mm, outer diameter 16 mm)

model	stock no.
	6 mm/9 mm
10 m	60910k-10
20 m	60910k-20
30 m	60910k-30
40 m	60910k-40

Hose



running meter, available with and without connections

for gas type		stock no.
oxygen	(6 x 5 mm, outer diameter 16 mm)	60930
acetylene	(9 x 3.5 mm, outer diameter 16 mm)	60920
propane	(9 x 3.5 mm, outer diameter 16 mm)	60940

Other types of hoses are available on special request.

Equipment set for welding and cutting appliances



consisting of: 1 hose package with 10 m oder 20 m
 (twin hose oxygen/acetylene - 6mm/9 mm),
 2 pressure regulators: 1 for oxygen and 1 for acetylene,
 2 flashback arrestors: 1 for oxygen and 1 for acetylene

model	stock no.
set with 10 m hose	60901
set with 20 m hose	60903

Rubber gauge protection (DIN 32503)



For pressure gauges Ø 63 mm.

colour	stock no.
blue	00198 BLAU
yellow	00198 GELB
grey	00198 GRAU
red	00198 ROT

Gauge protection



colour	stock no.
blue	00199 BLAU
yellow	00199 GELB
grey	00199 GRAU

Gas economiser



fuel gases: **acetylene, propane**

Gas economiser with adjustable pilot flame and safety suspension.

gas type	stock no.
acetylene/oxygen	60199
propane/oxygen	60199-P

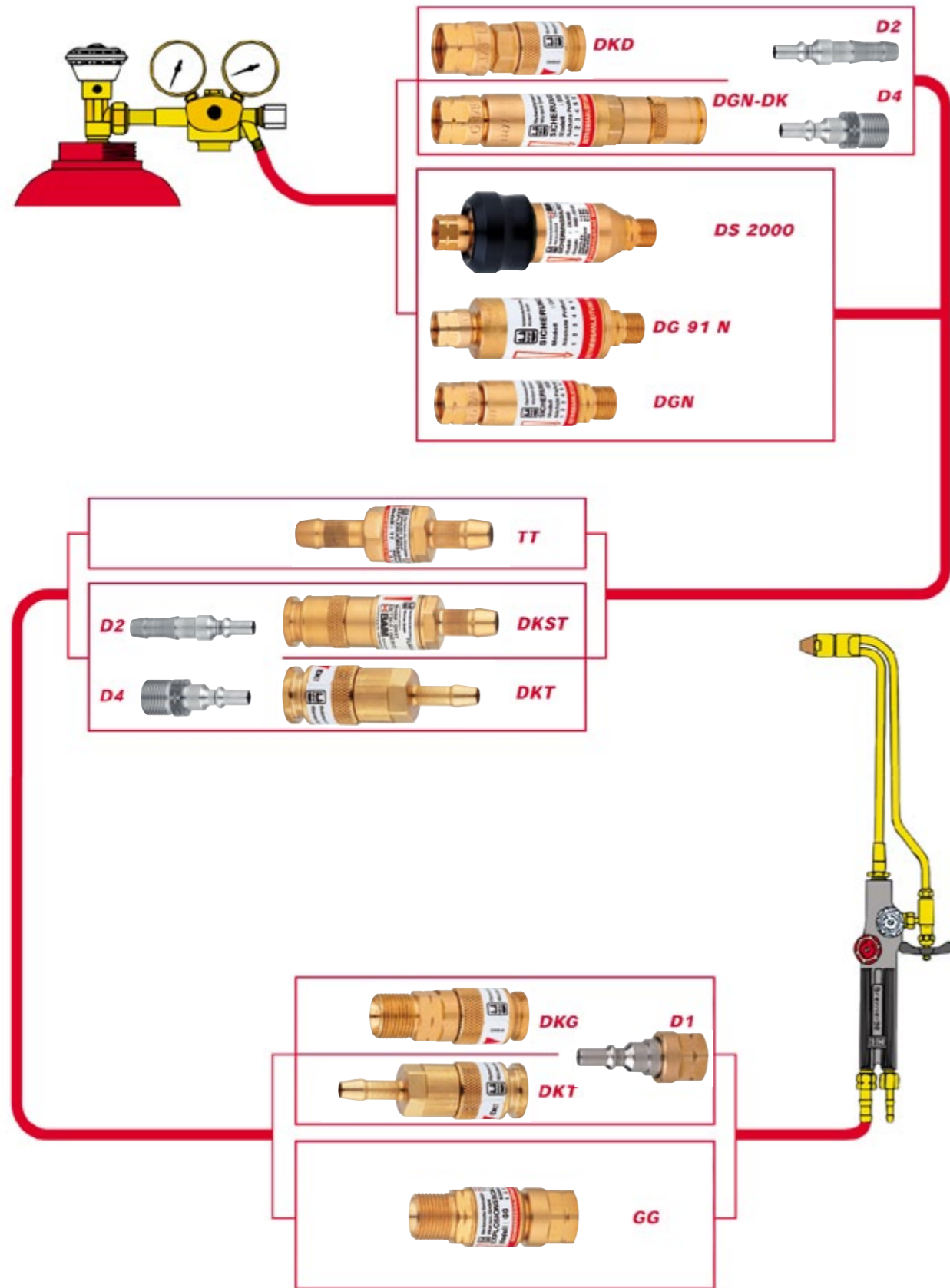
KOBOLD - accessory equipment for hand cutting torches



The delay mechanism (centrifugal governor) enables a very smooth and even guidance of the hand cutting torch and thereby an excellent cut quality.

The KOBOLD can be attached to all types of hand cutting torches.
 For the deployment a conventional guide block is inevitable.

	stock no.
	60198



Safety devices for single cylinders and tapping points

Model DGN



gas type	stock no.
oxygen	60110
fuel gas	60120

Model DGN-DK



with hose coupling

gas type	stock no.
oxygen	60115
fuel gas	60125

Model DG 91 N



with thermal cut-off valve

gas type	stock no.
oxygen	60112
fuel gas	60122

Model DS 2000



with thermal cut-off valve and pressure sensitive gas cut-off system

gas type	stock no.
oxygen	60113
fuel gas	60123



Gas safety devices

Safety devices for torch side protection

Model TT



gas type	stock no.
oxygen	60180
fuel gas	60190

Model DKST



with hose coupling

gas type	stock no.
oxygen	60165
fuel gas	60175

Model GG



gas type	stock no.
oxygen	60140
fuel gas	60150

Model GT



gas type	stock no.
oxygen	60160
fuel gas	60170



Gas safety devices

Hose couplings with automatic gas cut-off

Model DKD



gas type	stock no.
oxygen	60210
fuel gas	60220

Model DKT



gas type	stock no.
oxygen	60240
fuel gas	60250

Model DKG



gas type	stock no.
oxygen	60230
fuel gas	60235

Coupling pins



Coupling pin D 1

gas type	stock no.
oxygen	60245
fuel gas	60255



Coupling pin D 2

gas type	stock no.
oxygen	60215
fuel gas	60225

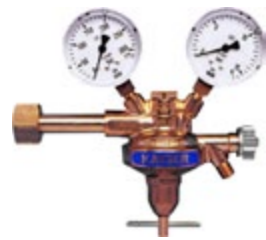


Coupling pin D 4

gas type	stock no.
oxygen	60260
fuel gas	60265

gas type	identification colour (old)	code	cylinder connection DIN 477	hose connection DIN 560
oxygen	blue	O	G 3/4"	G 1/4"
acetylene	yellow	A	bracket	G 3/8" LH
nitrogen	black	N	W 24.32 x 1/14	G 1/4"
hydrogen	red	H	W 21.8 x 1/14 LH	G 3/8" LH
forming gas	red		W 21.8 x 1/14 LH	G 3/8" LH
compressed air	black	D	G 5/8" pressure screw	G 1/4"
shielding gas	black	N	W 21.8 x 1/14	G 1/4"
helium	black	N	W 21.8 x 1/14	G 1/4"
test gas	purple		M 19 x 1.5" LH	G 3/8" LH
propane	orange	P	W 21.8 x 1/14 LH	G 3/8" LH
laughing gas			G 3/8"	G 1/4"

Pressure regulator K 98 - 200 bar (EN ISO 2503)

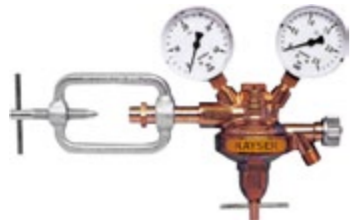


gas type: **oxygen**, single stage type

cylinder gauge: 0–315/200 bar
 working gauge: 0–16/10 bar
 back pressure adjustable: 0–10 bar
 flow rate: up to 50 Nm³/h

stock no.
63210

Pressure regulator K 98 (EN ISO 2503)



gas type: **acetylene**, single stage type

cylinder gauge: 0–40 bar
 working gauge: 0–2.5/1.5 bar
 back pressure adjustable: 0–1.5 bar
 flow rate: up to 8 Nm³/h

stock no.
63220

Pressure regulator K 98 - 200 bar (EN ISO 2503) with double scale



gas types: **argon/CO₂**, single stage type

cylinder gauge: 0–315/200 bar
 working gauge: 0–30/28 l/min

stock no.
63240

Pressure regulator K 98 - 200 bar (EN ISO 2503) with bar display



gas type: **argon/CO₂**, single stage type

cylinder gauge: 0–315/200 bar

working gauge	stock no.
0–10 bar	63242
0–25 bar	63243

Pressure regulator K 98 (EN ISO 2503)



single stage type

cylinder gauge: 0–315/200 bar

cylinder gauge (propane): 0–40/20 bar

gas type	back pressure adjustable	stock no.
nitrogen	0–10 bar	63250
	0–20 bar	63251
	0–25 bar	63252
compressed air	0–10 bar	63270
	0–20 bar	63271
helium	0–10 bar	63290
	0–10 bar	63291
propane	0–3.5 bar	63230
	0–3.5 bar (with working gauge only)	63231
forming gas	0–30 l/min	63280
	0–50 l/min	63281
hydrogen/natural gas (methane)	0–1.5 bar	63260
	0–10 bar	63261
test gas	0–2.5 bar	63297
	0–10 bar	63298

Pressure regulator K 98 with flow meter - 200 bar (EN ISO 2503)



gas types: **argon, CO₂, forming gas**

connections according to DIN 477

gas type	pressure		stock no.
	inlet	outlet	
argon	200 bar	2–9 l/min	63244
argon/CO ₂	200 bar	5–20 l/min	63245
		5–30 l/min	63246
forming gas	200 bar	5–20 l/min	63285
		5–50 l/min	63286

Tapping points pressure regulator K 98 (EN ISO 2503)



single stage type, with working gauge

inlet: non-flammable gases: G 3/8"
flammable gases: G 3/8" LH

gas type	adjustable	flow rate	stock no.
oxygen	0–10 bar	bis 60 Nm ³ /h	64411
acetylene	0–1.5 bar	bis 15 Nm ³ /h	64412
argon/CO ₂	0–32 bar/28 l/min		64414
hydrogen	0–10 bar		64416
nitrogen	0–10 bar		64415
propane	0–3.5 bar		64413
compressed air	0–10 bar		64417
carbonic acid	0–10 bar		64419

Brackets



model	connection	stock no.
single bracket	3/8" LH	64510
	3/8" RH	64511
double bracket	1 x RH, 1 x LH	64520
	2 x LH	64521
	2 x RH	64522
triple bracket	1 x LH, 2 x RH	64530
	2 x LH, 1 x RH	64531
	3 x RH	64532
fourfold bracket	3 x LH	64533
		64540

Balloon-filling valve



model	stock no.
balloon-filling valve with gauge	64711
balloon-filling valve with gauge and knurled nut for manual connection	64712
balloon-filling valve without gauge	64713
filling adapter for plastic balloons	64714

Liquid gas low pressure regulator „MINI“

back pressure adjustable: 0.5–4 bar
capacity: 6 kg/h
hose connection: G 3/8" LH

model: **without gauge**

type	stock no.
with combi-connection	64301
with G 3/8" LH for gas cylinder	64302
back pressure fixed at 1.5 bar with G 3/8" LH for gas cylinder	64303

model: **with gauge**

type	stock no.
with combi-connection	64304
with G 3/8" LH for gas cylinder	64305
reducer *	64315

* coupling nut G 3/8" LH x W 21,8 x 1/14 LH external thread



Liquid gas low pressure regulator

back pressure adjustable: 0.5–6 bar
capacity: 18 kg/h
hose connection: G 3/8" LH

model: **without gauge**

type	stock no.
with cylinder connection W 21.8 x 1/14 LH	64306
with combi-connection	64307
back pressure fixed at 4 bar with combi-connection	64308

model: **with gauge**

type	stock no.
with cylinder connection W 21.8 x 1/14 LH	64309
with combi-connection	64310



Single gauges

Ø 63 mm, hose connector G 1/4"

model	gas type		stock no.	model	gas type		stock no.
cylinder gauge	oxygen	400/300 bar	00152	working gauge	acetylene	2,5/1,5 bar	00157
		315/200 bar	00141			argon/CO ₂	0–30/28 l/min
	acetylene	40 bar	00151		neutral	0–30 l/min	00139
		neutral	400/300 bar			00153	0–50 l/min
working gauge	oxygen		315/200 bar	00145	16/10 bar	00146	
		40 bar	00143	2,5/1,5 bar	00137		
		16/10 bar	00147	6/3,5 bar	00138		
		40/20 bar	00148				

Hard soldering set for propane



consisting of:

propane-handle, liquid gas low pressure regulator „MINI“ with combi-connection and gauge, hard soldering attachment size 14, torch attachment 64 mm, high pressure hose with coupling nuts G 3/8" LH x 1,5 m

	stock no.
	69100

Preheating set for propane



consisting of:

propane-handle, liquid gas low pressure regulator (see table), connection tube 600 mm, torch head (see table), depot equipment, high pressure hose 6,3 x 5 with coupling nuts G 3/8" LH x 5 m, hose break safety device 12 kg/h

low pressure regulator type	torch head	stock no.
with combi-connection	Ø 60 mm	69200
„MINI“ without gauge	Ø 50 mm	69300

Propan handle



with shut-off valve, lever valve and adjustable flame

operating pressure: 1,5–4 bar
hose connection: G 3/8" LH
attachment connection: M 14 x 1

model	stock no.
without house coupling nipple and coupling nut 6 mm	69330
with house coupling nipple and coupling nut 6 mm	69335

Cylinder for propane 425 g



TÜV tested, seamless drawn steel cylinder with valve, hook and with or without cylinder base.

hose connection: G 3/8" LH

model	stock no.
with cylinder base	69450
without cylinder base	69455

Accessories

model	stock no.
valve for cylinder	69456
hook for cylinder	69457

Decanting device



to fill cylinder 425 g

Typ	stock no.
of 5 kg and 11 kg cylinders	69458
of 33 kg cylinders	69459

Hose break safety device - propane



The hose break safety device prevents the escape of gas after damaging or loosening of the hose line and locks the gas passage, as soon as the prescribed operating quantity is exceeded by 10 %.

for manual re-opening

inlet: G 3/8" LH
outlet: G 3/8" LH

Selecting one item there should be taken into consideration that the connected valve and the input pressure of the consumer should always be under the indicated value of the hose break safety device, respectively it should not be exceeded. The distance between both values shouldn't be chosen too long for security reasons.

nominal pressure	nominal flow rate	stock no.
1,5 bar	3,0 kg/h	69501
1,5 bar	6,0 kg/h	69502
1,5 bar	8,0 kg/h	69503
0,5–4,0 bar	4,8–10 kg/h	69504
0,5–4,0 bar	7,4–12 kg/h	69505