MULTI-PRUPOSE KITS FOR WELDING, BRAZING, HEATING AND FLAME CUTTING

Professional kit for acetylene with slot nozzles — STAR *A*

Description	*Art. No.*	*Cat. No.*
STAR *A* kit	716.01800	010



consisting of:
1 handle type 2210, 1 spring lever cutting attachment type 1730-A for acetylene
5 cutting nozzles and 1 heating nozzle type A-RS for cutting ranges 3 to 100 mm
6 welding tips type 210-A, for welding ranges 0,5 to 14 mm
Torch carriage, radius bar, torch spanner, set of nozzle cleaners, operating instructions
Incl. hose nipples and union nuts

Professional kit for acetylene with block nozzles — STAR *B*

Description	*Art. No.*	*Cat. No.*
STAR *B* kit	716.01801	010



consisting of:
1 handle type 2210, 1 spring lever cutting attachment type 2730-A for acetylene
5 block nozzles type A-B, for cutting ranges 3 to 100 mm
6 welding tips type 210-A, for welding ranges 0,5 to 14 mm
Torch carriage, radius bar, torch spanner, set of nozzle cleaners, operating instructions
Incl. hose nipples and union nuts

Assembly kit for welding, brazing, heating and flame cutting, for acetylene — ASSEMBLY KIT STAR

Description	*Art. No.*	*Cat. No.*
Assembly kit STAR	716.01806	010



consisting of:
1 handle type 2210, 1 spring lever cutting attachment type 1730-A for acetylene
6 cutting nozzles and 2 heating nozzles type A-RS, for cutting ranges 3 to 200 mm
8 welding tips type 210-A, for welding ranges 0,5 to 30 mm
2 pressure regulators CONSTANT 2000 each for oxygen and acetylene
Each 10 m hose for oxygen and fuel gas, incl. hose clamps
Torch carriage, torch spanner, set of nozzle cleaners, gas ignitor, protection goggles
Operating instruction, incl. hose nipples and union nuts

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HANDLES, WELDING, BRAZING AND HEATING TIPS

HANDLES

Handles shells replaceable, particularly robust, maintenance free and easy to repair



Type	*Description*	*Connections*	*Art. No.*	*Cat. No.*
2020	Valve arrangement lateral	DIN: G 1/4“ - G 3/8” LH BSP: G 3/8“ LH - G 3/8” LH	716.06820	024
1000	Sturdy handle made of aluminum	DIN: G 1/4“ RH - G 3/8“ LH	716.05994	024

Length: approx. 230 mm, shaft diameter: 20 mm, weight: approx. 550 g

The ergonomic, especially sturdy design of our STAR handles allows easy handling, fatigue-free working and high operation comfort. Self-tensioning radial seals enable fast and safe sealing, the union nut can easily be tightened by hand.

STAR 210-A

For standard applications, nozzles replaceable



Size	*O_2-Consumption*	*Welding range*	*Art. No. tip complete*	*Art. No. mixing tube*	*Cat. No.*
1	approx. 80 l/h	0,5 - 1,0 mm	716.01621	242.34110	024/007
2	approx. 160 l/h	1,0 - 2,0 mm	716.01622	242.34210	024/007
3	approx. 315 l/h	2,0 - 4,0 mm	716.01623	242.34310	024/007
4	approx. 500 l/h	4,0 - 6,0 mm	716.01624	242.34410	024/007
5	approx. 800 l/h	6,0 - 9,0 mm	716.01625	242.34510	024/007
6	approx. 1.250 l/h	9,0 - 14,0 mm	716.01626	242.34610	024/007
7	approx. 1.800 l/h	14,0 - 20,0 mm	716.01627	242.34710	024/007
8	approx. 2.500 l/h	20,0 - 30,0 mm	716.01628	242.34810	024/007

Tips for welding, brazing and heating, with hammered finish welding nozzle bores, fuel gas acetylene

STAR 410-A

Flexible, mixing tube with brazed-on nozzle replaceable



Size	*O_2-Consumption*	*Welding range*	*Art. No. tip complete*	*Art. No. mixing tube*	*Cat. No.*
2	approx. 160 l/h	1,0 - 2,0 mm	716.01712	716.01752	024/007
3	approx. 315 l/h	2,0 - 4,0 mm	716.01713	716.01753	024/007
4	approx. 500 l/h	4,0 - 6,0 mm	716.01714	716.01544	024/007
5	approx. 800 l/h	6,0 - 9,0 mm	716.01715	716.01755	024/007

Pipe welding tips for welding, brazing and heating in difficult areas, fuel gas acetylene

Stand: 04/2013

✱ **on request**

MESSER Cutting Systems

Central flame outlet, nozzles replaceable — STAR Z-A

Size	*O_2-Consumption*	*Overall length approx.*	*Art. No. tip complete*	*Art. No. heating nozzle*	*Cat. No.*
9	max. 4,7 m^3/h	695 mm	716.00863	716.00170	004
10	max. 5,8 m^3/h	695 mm	716.00865	716.00171	004

Tips for laminar brazing and heating with acetylene



Laminar flame outlet, nozzles replaceable, particularly low noise — STAR FB-A

Size	*O_2-Consumption*	*Overall length approx.*	*Art. No. tip complete*	*Art. No. heating nozzle*	*Cat. No.*
5	max. 1,1 m^3/h	310 mm	716.01915	716.00725	004
6	max. 1,9 m^3/h	340 mm	716.01916	716.00726	004
7	max. 2,3 m^3/h	390 mm	716.00757	716.00727	004
8	max. 3,3 m^3/h	410 mm	716.00758	716.00728	004
9	max. 5,5 m^3/h	675 mm	716.00759	716.00779	004
10	max. 6,1 m^3/h	675 mm	716.00772	716.00780	004

Tips for laminar brazing and heating with acetylene, noise level up to size 8 below 85 dB(A)



Laminar flame outlet, nozzles replaceable — STAR F-A

Size	*O_2-Consumption*	*Overall length approx.*	*Art. No. tip complete*	*Art. No. heating nozzle*	*Cat. No.*
8	max. 2,7 m^3/h	415 mm	242.54800	242.13811	004
9	max. 4,2 m^3/h	685 mm	716.00864	716.00422 (with mixing tube)	004

Tips for laminar brazing and heating with acetylene



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STAR KONSTANTHERM

Central flame outlet, protection sleeve replaceable



Size	*O_2-Consumption*	*Overall length approx.*	*Art. No. tip complete*	*Art. No. protection sleeve*	*Cat. No.*
6	1,25 m^3/h	9,0 - 14,0 m^3/h	242.56600	677.51963	004
8	2,50 m^3/h	20,0 - 30,0 m^3/h	242.56800	677.51965	004

Special tips for welding and heating under high thermal load, fuel gas acetylene

STAR Z-PM

Central flame outlet, nozzles replaceable



Size	*O_2-Consumption*	*Overall length approx.*	*Art. No. tip complete*	*Art. No. heating nozzle*	*Cat. No.*
8	max. 6,0 m^3/h	430 mm	716.00042	716.00032	004
10	max. 14,0 m^3/h	430 mm	716.00043	716.00033	004
12	max. 33,0 m^3/h	430 mm	716.00044	716.00034	004

Tips for spot brazing and heating, fuel gases propane, methane

STAR Z-PMY

Central flame outlet, nozzles replaceable



Size	*O_2-Consumption*	*Overall length approx.*	*Art. No. tip complete*	*Art. No. heating nozzle*	*Cat. No.*
6	max. 3,0 m^3/h	325 mm	716.01926	716.01233	004
8	max. 6,0 m^3/h	425 mm	716.01251	716.01234	004
10	max. 14,0 m^3/h	425 mm	716.01252	716.01235	004
12	max. 35,0 m^3/h	425 mm	716.01253	716.01236	004

Tips for brazing and spot heating, fuel gases propane, methane, Mapp

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✱ **on request**

Laminar flame outlet, nozzles replaceable — STAR F-PMY

Size	O_2-Consumption	Overall length approx.	Art. No. tip complete	Art. No. heating nozzle	Cat. No.
8	max. 6,0 m^3/h	420 mm	716.01254	716.01237	004
10	max. 14,0 m^3/h	420 mm	716.01255	716.01238	004
12	max. 33,0 m^3/h	420 mm	716.01256	716.01239	004

Tips for laminar brazing and heating, fuel gases propane, methane, Mapp



Central flame outlet, nozzles replaceable — STAR Z-F

Size	O_2-Consumption	Overall length approx.	Art. No. tip complete	Art. No. heating nozzle	Cat. No.
8	max. 3,6 m^3/h	425 mm	716.05364	716.01234	004
10	max. 5,0 m^3/h	425 mm	716.05365	716.01235	004
12	max. 6,0 m^3/h	425 mm	716.05366	716.01236	004

Tips for brazing and spot heating, fuel gas ethylene



Laminar flame outlet, nozzles replaceable — STAR F-F

Size	O_2-Consumption	Overall length approx.	Art. No. tip complete	Art. No. heating nozzle	Cat. No.
10	max. 5,0 m^3/h	420 mm	716.05361	716.01238	004
12	max. 6,0 m^3/h	420 mm	716.05362	716.01239	004

Tips for laminar brazing and heating, fuel gas ethylene



Laminar flame outlet, nozzles replaceable — STAR HF-PMYE

Size	O_2-Consumption	Overall length approx.	Art. No. tip complete	Art. No. heating nozzle	Cat. No.
HF 12	max. 12,0 m^3/h	420 mm	716.05642	716.05646	039
HF 13	max. 23,0 m^3/h	510 mm	716.05643	716.05647	039
HF 14	max. 35,3 m^3/h	720 mm	716.05644	716.05648	039
HF 15	max. 54,2 m^3/h	830 mm	716.05645	716.05649	039

Tips for laminar heating, fuel gases propane, methane, Mapp, ethylene



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STAR CUTTING ATTACHMENTS	For manual flame cutting, fuel gases acetylene or propane / methane / Mapp / ethylene				
	Description	*Nozzle type*	*Art. No. Type A*	*Art. No. Type PMY*	*Cat. No.*
	STAR 1730 with spring lever	Ring-/slot nozzles	716.05137	716.05294	024
	STAR 1730-F with spring lever only for fuel gas ethylene	Ring-/slot nozzles	--	716.05367	024
	STAR 1230 with handwheel	Ring-/slot nozzles	716.05284	716.05295	024
	STAR 2730 with spring lever	Block nozzles	716.05288	--	024
	STAR 2230 with handwheel	Block nozzles	716.05292	--	024
	STAR 8730 with spring lever	Gas mixing nozzles	716.05165	716.05165	024
	STAR 9230 with handwheel straight torch head	Gas mixing nozzles	716.05286	716.05286	024

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✱ **on request**

MESSER Cutting Systems

FLAME STRAIGHTENING AND FLAME CLEANING ATTACHMENTS

For flame straightening, reversible for 3/2” or 5/3” flames, fuel gas acetylene

FLAME STRAIGHTENING ATTACHEMENT STAR

Type	*Overall length approx.*	*Size*	*Art. No.*	*Cat. No.*
STAR 3/2“	505 mm	2 - 4 mm	716.01760	004
reversible for 3/2“ flames	540 mm	4 - 6 mm	716.01761	004
reversible for 5/2“ flames	550 mm	4 - 6 mm	716.01763	004



Replaceable nozzles for flame straightening attachments A 3/2” and 5/3”, fuel gas acetylene

HEATING NOZZLE STAR

Type	*Size*	*Art. No.*	*Cat. No.*
STAR A	2 - 4 mm	242.34310	004
	4 - 6 mm	242.34410	004



For flame cleaning, fuel gases acetylene or propane / methane

FLAME CLEANING ATTACHMENT STAR

Torch width	*Overall length approx.*	*Art. No. type T-A*	*Art. No.*	*Cat. No.*
50 mm	505 mm	716.00520	716.00523 ✱	004
100 mm	525 mm	716.00521	716.00524 ✱	004
150 mm	535 mm	716.00522	716.00525 ✱	004



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