

Gas Equipment

Industrial cutting, heating & welding torches



Industrial Cutting, Heating & Welding Torches

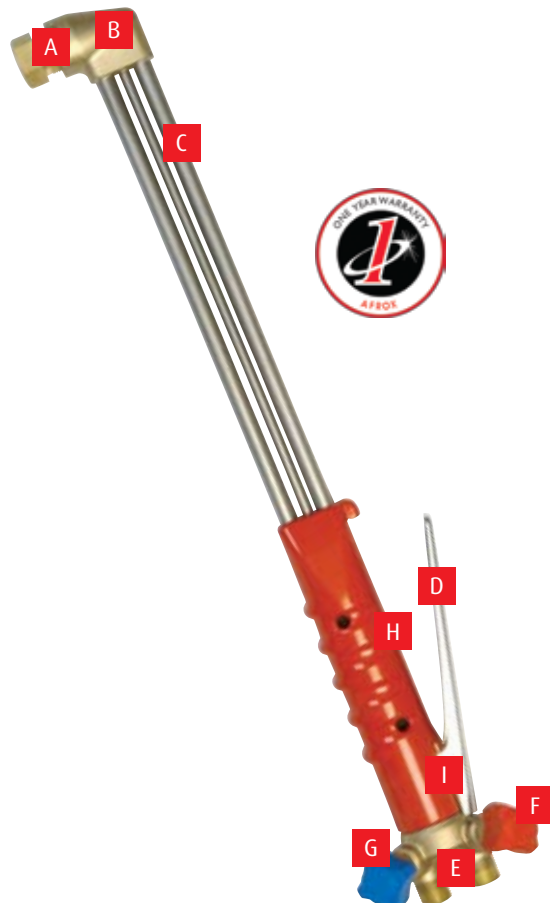
The Afrox Saffire® Universal® cutting torch is a versatile, well-balanced torch capable of cutting steel up to 300 mm thick. The torch provides excellent flame control and exceptional handling for all industrial cutting applications.

Afrox Saffire® Universal® cutting torches feature nozzle mixing technology for added safety and for protecting the torch and operator from accidental backfires.

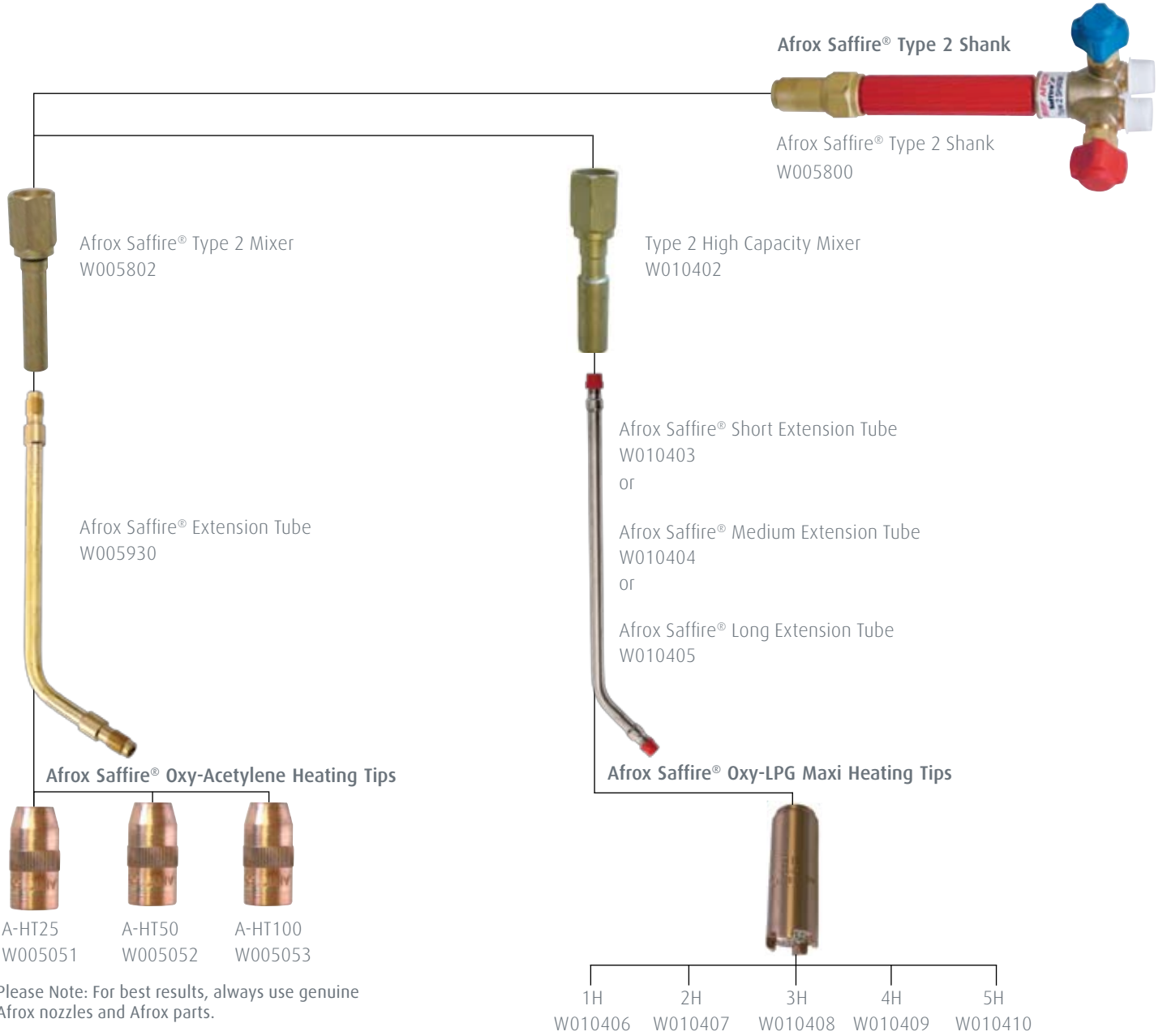
They can be used with acetylene or LPG, depending on the type of nozzle fitted.



- A** Nozzle mixing helps contain backfires in the nozzle, protecting the torch from downtime and providing added operator safety
- B** Large forged head provides unmatched durability and reduces warping for extended service
- C** Three-tube construction keeps gases separate, allowing gas mixing only in the nozzle for added operator safety
- D** Solid lever for added durability
- E** Fully silver-brazed joints, thick-walled stainless steel tubes and solid brass forged head and tail result in robustness and lower maintenance costs
- F** Drag adjustment for setting desired valve resistance
- G** Easy-grip valves give you full control over your cutting flame
- H** Heavy duty cast handle for positive grip, comfort and control
- I** Ease-on cutting oxygen feature reduces keyholing when starting and restarting, and slag blow-back when piercing



Type 2 Heating & Superheating Assembly



Cartridge & Automatic Arrestors

Model	Gas	Inlet Connection	Outlet Connection	Description	Item Number
Afrox F7	Fuel Gas	8 mm Hose	3/8" BSP	Afrox Universal® and Type 2 Torch Mount	W012030
Afrox F7	Oxygen	8 mm Hose	3/8" BSP	Afrox Universal® and Type 2 Torch Mount	W012031



Cutting Assembly

Cutting Nozzles

Afro Saffire® 3 Seat Oxy-Acetylene A-NM6 Cutting Nozzle
W005014
W005015
W005016
W005017
W005018
W005020

Afro Saffire® 3 Seat Oxy-LPG P-NM Cutting Nozzle
W010236
W010237
W010238
W010239
W010240
W010242

Afro Saffire® Torch

Afro Saffire® Universal® Cutting Torch
W005803

Afro Saffire® Flashback Arrestors

Afro Saffire® Standard Flow Torch End Oxygen FBA W012031	Afro Saffire® Standard Flow Torch End Fuel FBA W012030
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Cutting Nozzles

Afro Saffire® 3 Seat A-NM6 Acetylene Cutting Nozzle
W005014
W005015
W005016

Afro Saffire® 3 Seat LPG P-NM Cutting Nozzle
W010236
W010237
W010238

Afro Saffire® Torch

Afro Saffire® Type 2 Cutting Attachment
W005801

Afro Saffire® Type 2 Shank
W005800

Afro Saffire® Flashback Arrestors

Afro Saffire® Standard Flow Torch End Fuel FBA W012030	Afro Saffire® Standard Flow Torch End Oxygen FBA W012031
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Please Note:
For best results, always use genuine Afro nozzles and Afro parts.

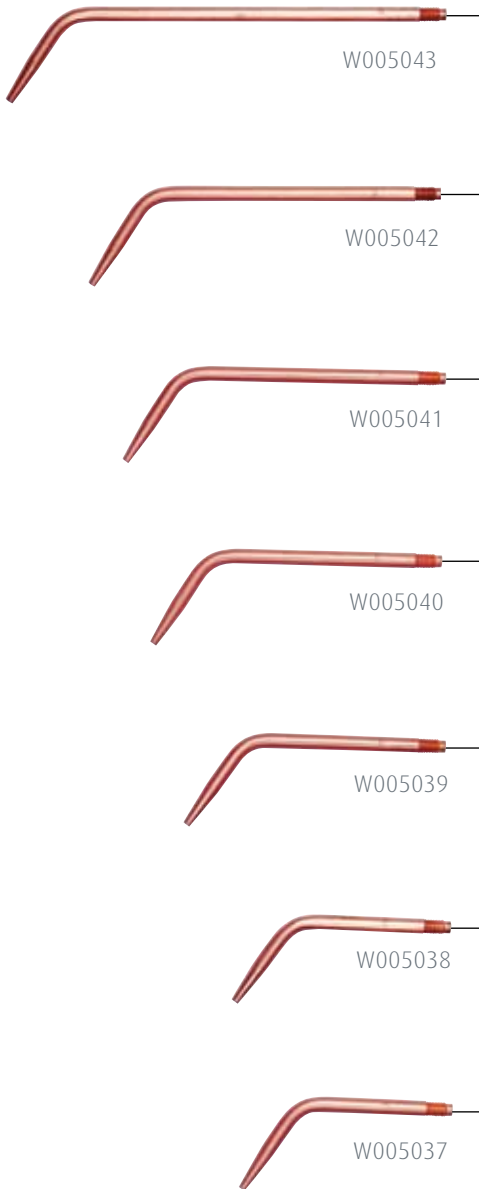
Acetylene Hand Cutting – A-NM6								
Nozzle Size	Material Thickness (mm)	Oxygen Pressure (kPa)	Acetylene Pressure (kPa)	Cutting Speed (mm/min)	Gas Consumptions			Item Number
					Oxygen Cutting (kg/h)	Oxygen Heating (kg/h)	Acetylene Heating (kg/h)	
0,8	3 - 6	150	15	500 - 850	1,13	0,41 0,69	0,31 0,52	W005014
1,2	6 - 12	200	15	440 - 700	2,45	0,49 0,82	0,37 0,62	W005015
1,6	12 - 25	250	15	300 - 610	5,37	0,56 1,06	0,44 0,76	W005016
1,6	25 - 50	300	20	230 - 400	6,23	0,60 1,06	0,49 0,76	W005016
1,6	50 - 75	350	30	180 - 300	7,03	0,76 1,06	0,49 0,76	W005016
2,0	75 - 100	300	30	180 - 250	9,55	0,76 1,17	0,56 0,87	W005017
2,4	100 - 150	300	30	150 - 180	13,92	1,17 1,62	0,87 1,20	W005018
3,2	150 - 250	450	35	100 - 125	29,84	1,65 2,06	1,23 1,54	W005020
3,2	250 - 300	550	35	90 - 125	34,48	1,88 2,42	1,39 2,00	W005020

LPG Cutting – P-NM									
Nozzle Size	Material Thickness (mm)	Cutting Speed (mm/min)	Cutting Oxygen Pressure (kPa)	Heating Oxygen Pressure (kPa)	LPG Pressure (kPa)	Gas Consumptions			Item Number
						Oxygen Cutting (kg/h)	Oxygen Heating (kg/h)	LPG Heating (kg/h)	
0,8	3 - 6	460	150	30	20	1,13	1,8	0,67	W010236
1,2	6 - 12	400	200	35	20	2,62	2,0	0,91	W010237
1,6	12 - 25	300	300	35	20	5,3	2,0	0,91	W010238
1,6	25 - 50	220	300	40	30	5,3	2,3	0,91	W010238
1,6	50 - 75	160	350	50	35	6,1	2,5	1,0	W010238
2,0	75 - 100	155	350	70	40	10,4	3,1	1,3	W010239
2,4	100 - 150	140	400	70	40	16,4	3,5	1,4	W010240
3,2	150 - 250	100	560	100	50	35,6	4,5	1,8	W010242
3,2	250 - 300	90	560	100	60	35,6	4,5	1,8	W010242

Type 2 torch, maximum cutting thickness is 75 mm.

Afrox Type 2 Welding Assembly

Afrox Saffire® Welding Nozzles*



W005043

W005042

W005041

W005040

W005039

W005038

W005037

Afrox Saffire® Type 2 Mixer



Afrox Saffire® Type 2 Mixer
W005802

Afrox Saffire® Type 2 Shank



Afrox Saffire®
Type 2 Shank
W005800



Afrox Saffire® Flashback Arrestors

Afrox Saffire® Standard
Flow Torch End
Fuel FBA
W012030

Afrox Saffire® Standard
Flow Torch End
Oxygen FBA
W012031

For Your Safety...

- Afrox recommends the use of flashback arrestors on both ends (regulator and torch).

Type 2 Torch							
Nozzle Size	Material Thickness (mm)	Nozzle Length (mm)	Oxygen Pressure (kPa)	Acetylene Pressure (kPa)	Gas Consumptions		Item Number
					Oxygen (kg/h)	Acetylene (kg/h)	
1	0,9	140	15	15	0,04 0,06	0,03 0,05	W005037
2	1,2	140	15	15	0,07 0,15	0,06 0,11	W005038
3	2,0	140	15	15	0,11 0,21	0,09 0,16	W005039
5	2,6	140	15	15	0,21 0,25	0,16 0,19	W005040
7	3,2	185	15	15	0,28 0,38	0,22 0,28	W005041
10	4,0	185	20	20	0,41 0,47	0,31 0,35	W005042
13	5,0	185	30	30	0,54 0,66	0,40 0,50	W005043
18	6,5	290	40	40	0,62 0,83	0,56 0,62	W005044
25	8,2	290	40	40	0,61 1,20	0,77 0,89	W005045
35	10	290	60	60	1,45 1,49	1,08 1,11	W005046
45	13	345	60	60	1,88 1,99	1,39 1,48	W005047
55	19	345	60	60	2,29 2,71	1,70 2,01	W005048
70	25	345	60	60	2,85 3,23	2,16 2,41	W005049
90	25+	345	60	60	3,72 4,20	2,78 3,15	W005050

Safety Equipment & Accessories

Uvex Welders' Goggle - W053729

Welding Goggles Lift-front (Shade 4) - W012257

Blue Welders' Gloves (20 cm cuff) - W053066

Dust Mask Valve FF2 (Pack of 10) - W053716

Leather Apron (90 X 60 cm) - W053076

Standard Leather Spats - W053071

Multi-purpose Spanner - W012590

Triple Flint Spark Lighter - W012621

Afrox Saffire® Nozzle Cleaners - W012174

Afrox Saffire® Standard Nozzle Cleaners - W012172

Afrox Saffire® Safetest Leak Detection Solution - W012045



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