

2023

CUTTING & HEATING TORCH SAFETY ELEMENTS



since 1991

PENTAGON

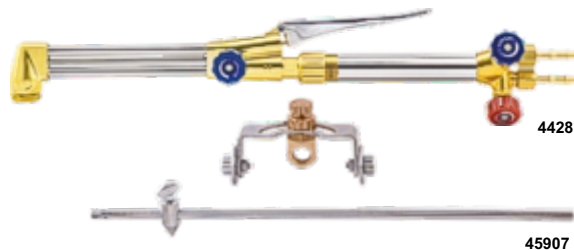
Întotdeauna Soluția Potrivită

www.pentagonromania.ro

CUTTING TORCH & HEATING ATTACHMENTS

GENERAL SPECIALITIES

- Conforming to ISO 5172 standard.
- Maximum safety
- Cutting capacity up to 500 mm
- Precise adjustable buttons
- Stainless pipe providing high durability
- Cutting oxygen locking system
- Ability to work according to different gas system
- Different head angles and heights.



QUICK NOZZLE MIX TYPE CUTTING TORCH

Order No	Cutting Capacity	Head Angle	Oxygen Connection	Fuel Gas Connection	Hose Nipple
4428	0-500 mm	90°	G 3/8" RIGHT	G 3/8" LEFT	Ø 6,3 mm
45907	Cutting Guide (80 mm - 800 mm circular cutting)				

4428 satisfies the high expectations that users have of a quality torch.

With the 4428 pressure torch, the gases are mixed in the torch head, which increases safety against flashbacks.



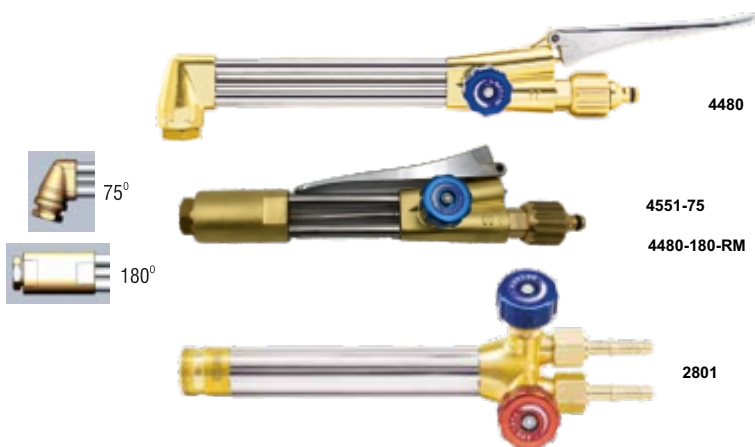
CUTTING TORCH

Order No	Specifications
4480	Nozzle Mix Type Cutting Torch

Order No	Specifications
4551-75 4480-180-RM	Nozzle Mix Type Cutting Torch

SHANK

Order No	Oxygen Connection	Fuel Gas Connection	Hose Nipple
2801	G 3/8" RIGHT	G 3/8" LEFT	Ø 6,3 mm



NOZZLE MIX TYPE CUTTING TORCH NOZZLE (OXYGEN - ACETYLENE)

Order No	Cutting Thickness	Oxygen Pressure	Acetylene Pressure
4530A	3-6 mm	2,5-3,5 bar	0.35 bar
4531A	5-12 mm	3-4 bar	0.35 bar
4532A	10-75 mm	4-5 bar	0.4 bar
4533A	70-100 mm	4,5-5,5 bar	0.4 bar
4534A	90-150 mm	5,6 bar	0.4 bar
4535A	140-200 mm	5-6,5 bar	0.4 bar
4536A	190-300 mm	6,5-7,5 bar	0.45 bar
4537A	300-500 mm	6,5-7,5 bar	0.45 bar

NOZZLE MIX TYPE CUTTING TORCH NOZZLE (OXYGEN - ACETYLENE)

Order No	Cutting Thickness	Oxygen Pressure	Acetylene Pressure
4520A	3-5 mm	1,5-2,0 bar	0,1 bar
4521A	5-10 mm	2,5-3,5 bar	0,2 bar
4522A	10-25 mm	3,0-4,0 bar	0,3 bar
4523A	25-40 mm	3,5-4,5 bar	0,3 bar
4524A	40-60 mm	4,0-5,0 bar	0,4 bar
4525A	60-100 mm	4,5-5,5 bar	0,4 bar
4526A	100-200 mm	5,0-6,5 bar	0,5 bar
4527A	200-300 mm	5,0-7,5 bar	0,6 bar

NOZZLE MIX TYPE CUTTING TORCH NOZZLE (OXYGEN - PROPANE / NATURAL GAS)

Order No	Cutting Thickness	Oxygen Pressure	Propane Pressure	Natural Gas Pressure
4530P	3-6 mm	2,5-3,5 bar	0.3 bar	0.3-1 bar
4531P	5-12 mm	3-4 bar	0.3 bar	
4532P	10-75 mm	4,5 bar	0.4 bar	
4533P	70-100 mm	4,5-5,5 bar	0.4 bar	
4534P	90-150 mm	5-6 bar	0.7 bar	
4535P	140-200 mm	5-6,5 bar	0.7 bar	
4536P	190-300 mm	6,5-7,5 bar	0.7 bar	
4537P	300-500 mm	6,5-7,5 bar	0.8 bar	

NOZZLE MIX TYPE CUTTING TORCH NOZZLE (OXYGEN - PROPANE / NATURAL GAS)

Order No	Cutting Thickness	Oxygen Pressure	Propane / Natural Gas Pressure
4520P	3-5 mm	1,5-2,0 bar	0,1 bar
4521P	5-10 mm	2,5-3,5 bar	0,2 bar
4522P	10-25 mm	3,0-4,0 bar	0,3 bar
4523P	25-40 mm	3,5-4,5 bar	0,3 bar
4524P	40-60 mm	4,0-5,0 bar	0,4 bar
4525P	60-100 mm	4,5-5,5 bar	0,4 bar
4526P	100-200 mm	5,0-6,5 bar	0,6 bar
4527P	200-300 mm	5,0-7,5 bar	0,6 bar

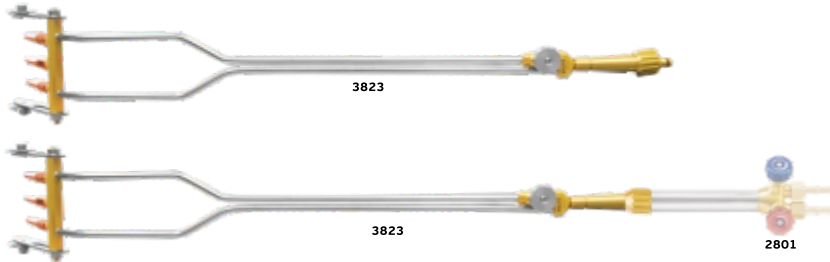


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Întotdeauna Soluția Potrivită

MULTI NOZZLE FLAME STRAIGHTENING TORCH

Order No	Product Description	Workpiece Thickness (mm)			Length (mm)	Nozzle Size For Flame Straightening	Consumption (l/min)	
3823	Multi Nozzle Flame-Straightening Torch	Mild Steel	Stainless Steel	Aluminium and its alloys	-	-	Acetylene	Oxygen
		5-15	8-20	5-10	730	2-4	15	16,5
		10-30	15-40	8-25	730	4-6	25	27,5
		15-40	20-50	12-35	730	6-9	37,5	41,3



SINGLE FLAME HEATING ATTACHMENTS ACETYLENE

Order No	Product Description	Capacity (l/h)	Length (mm)	Working Pressure (bar)		Heating Power (kW)	Consumption (h/l)	
3843	Single Flame Heating Attachments 5000L (Acetylene)	5000	510	Oxygen	Acetylene	58	Oxygen	Acetylene
				8	0.6		5000	4500



HEATING ATTACHMENTS PROPANE

Order No	Product Description	Capacity (l/h)	Length (mm)	Working Pressure (bar)		Heating Power (kW)	Consumption (h/l)	
3833	Heating Attachments 4000L (Propane)	4000	670	Oxygen	Propane	26	Oxygen	Propane
				4,9	1,9		15000	4000



MULTI FLAME HEATING ATTACHMENTS ACETYLENE

Order No	Product Description	Capacity (l/h)	Length (mm)	Working Pressure (bar)		Heating Power (kW)	Consumption (h/l)	
3853	Multi Flame Heating Attachments 5000L (Acetylene)	5000	680	Oxygen	Acetylene	58.1	Oxygen	Acetylene
				8	0.6		5000	4500



Order no.	Product Description	Gas Inlet Pressure (bar)	Gas Outlet Pressure (bar)	Working Standard	Outlet Connection
5120	Pressure Regulator - Propane	0-25	0-1.5	EN ISO 2503	6,3 mm



Order no.	Product Description	Gas Inlet Pressure (bar)	Gas Outlet Flow (L/Min)	Working Standard	Inlet Connection	Outlet Connection
5350S	Pressure Regulator - CO2	0-230 / 0-300	0-21	EN ISO 2503	G 1 "	G 1/4"



Order no.	Product Description	Gas Inlet Pressure (bar)	Gas Outlet Pressure (bar)	Working Standard	Inlet Connection	Outlet Connection
5301S	Pressure Regulator - Oxygen	0-230 / 0-300	0-10	EN ISO 2503	G 1 "	G 3/8 "



Order no.	Product Description	Gas Inlet Pressure (bar)	Gas Outlet Pressure (bar)	Working Standard	Inlet Connection	Outlet Connection
50230S	High Pressure Regulator - Nitrogen	0-230 / 0-300	0-20 / 0-50	EN ISO 2503	G 1"	G 3/8"



Order no.	Product Description	Gas Inlet Pressure (bar)	Gas Outlet Flow (L/Min)	Working Standard	Inlet Connection
5450SF30	Pressure Regulator - CO2	0-230 / 0-300	0-30	EN ISO 2503	G 1"



Order no.	Product Description	Gas Inlet Pressure (bar)	Gas Outlet Pressure (bar)	Working Standard	Outlet Connection
5312S	Pressure Regulator - Acetylene	0-25	0-1,5	EN ISO 2503	G 3/8"



Order no.	Product Description	Gas Inlet Pressure (bar)	Gas Outlet Flow (L/Min)	Working Standard	Inlet Connection	Outlet Connection
5440SF30	Pressure Regulator - Argon	0-230 / 0-300	0-30	EN ISO 2503	G 1"	G 1/4"



Order no.	Product Description	Using Pressure (bar)	Inlet Connection	Outlet Connection	Gas Type	Flow (m3/h)	Used For
1128	Flashback Arrestor For Oxygen Torch	10	6,3 mm	G 1/4"	Oxygene	35	Torch



Order no.	Product Description	Using Pressure (bar)	Inlet Connection	Outlet Connection	Gas Type	Flow (m3/h)	Used For
1128-RM	Flashback Arrestor For Oxygen Torch	20	G 3/8"	G 3/8"	Oxygene	95	Torch



Order no.	Product Description	Using Pressure (bar)	Inlet Connection	Outlet Connection	Gas Type	Flow (m3/h)	Used For
1128-RM1	Flashback Arrestor For Oxygen Torch	20	G 1/4"	G 1/4"	Oxygene	95	Torch



Order no.	Product Description	Using Pressure (bar)	Inlet Connection	Outlet Connection	Gas Type	Flow (m3/h)	Used For
1129	Flashback Arrestor For Oxygen Torch	20	6,3 mm	G 3/8"	Oxygene	95	Torch



Order no.	Product Description	Using Pressure (bar)	Inlet Connection	Outlet Connection	Gas Type	Flow (m3/h)	Used For
1118	Flashback Arrestor For Fuel Gas Torch	1,5	6,3 mm	G 3/8"	Propane Acetylene	Propane: 5,3 Acetylene : 7	Torch



Order no.	Product Description	Using Pressure (bar)	Inlet Connection	Outlet Connection	Gas Type	Flow (m3/h)	Used For
1118-RM	Flashback Arrestor For Fuel Gas Torch	Propane: 1,5 Acetylene: 5	G 3/8"	G 3/8"	Propane Acetylene	Propane: 40 Acetylene : 10	Torch



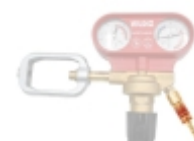
Order no.	Product Description	Using Pressure (bar)	Inlet Connection	Outlet Connection	Gas Type	Flow (m3/h)	Used For
1030	Flashback Arrestor for Oxygen Pressure Regulator	20	G 3/8"	G 3/8"	Oxygen	95	Pressure Regulators (Oxygen)



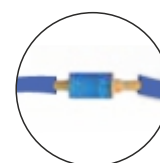
Order no.	Product Description	Using Pressure (bar)	Inlet Connection	Outlet Connection	Gas Type	Flow (m3/h)	Used For
1030A	Flashback Arrestor for Oxygen Pressure Regulator	20	G 1/4"	G 1/4"	Oxygen	95	Pressure Regulators (Oxygen)



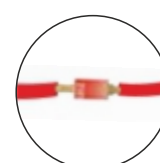
Order no.	Product Description	Using Pressure (bar)	Inlet Connection	Outlet Connection	Gas Type	Flow (m3/h)	Used For
1130	Flashback Arrestor for Oxygen Pressure Regulator	Propane: 5 Acetylene: 1,5	G 3/8"	G 3/8"	Propane Acetylene	Propane: 40 Acetylene: 10	Pressure Regulator (Oxygen)



Order no.	Product Description	Using Pressure (bar)	Inlet Connection	Outlet Connection	Gas Type	Flow (m3/h)	Used For
1028	Flashback Arrestor For Oxygen Hose	10	6,3 mm	6,3 mm	Oxygen	35	Hose (Oxygen)



Order no.	Product Description	Using Pressure (bar)	Inlet Connection	Outlet Connection	Gas Type	Flow (m3/h)	Used For
1018	Flashback Arrestor For Fuel Gas Hose	Propane: 5 Acetylene: 1,5	6,3 mm	6,3 mm	Propane Acetylene	Propane: 5,3 Acetylene: 7	Hose (Fuel Gas)



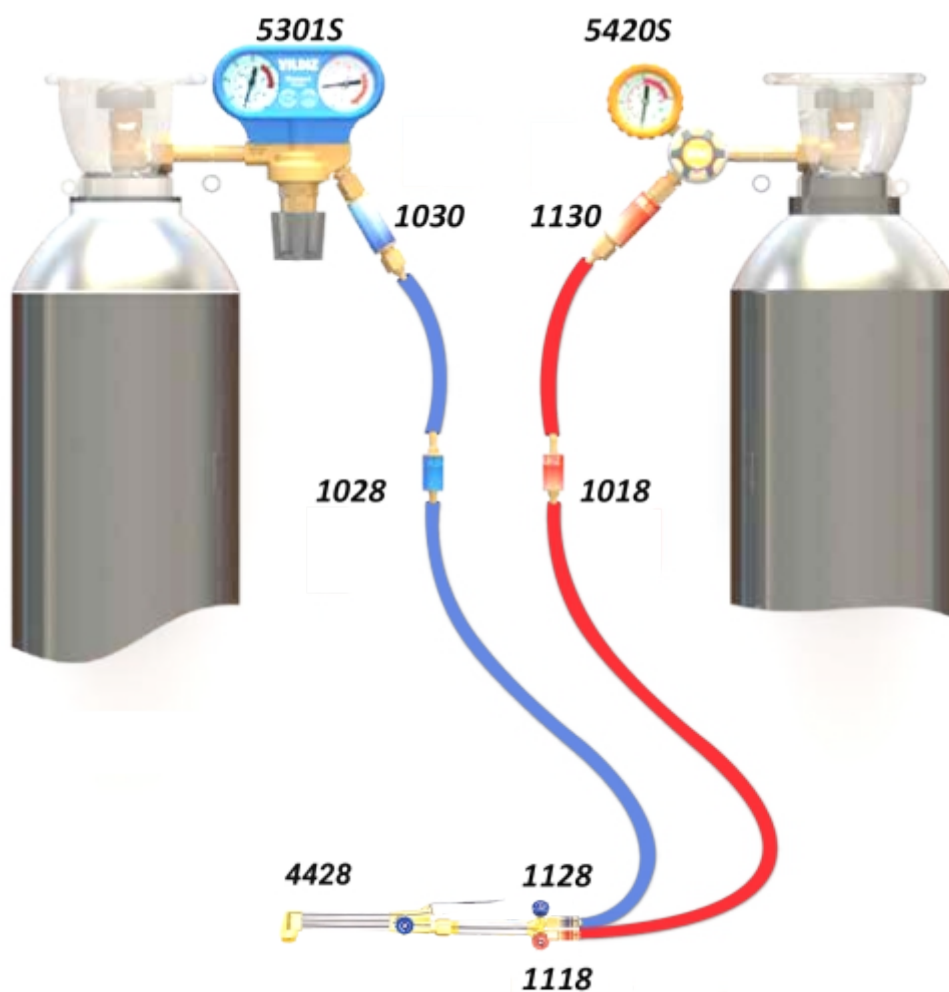
Order no.	Product Description	Outer Diameter (mm)	Connection Size	Using Pressure (bar)	Manometer Pressure (bar)
51140	Acetylene Inlet Pressure Gauges (Manometers) 0-40 Bar	63	R 1/4"	0-25	0-40



Order no.	Product Description	Outer Diameter (mm)	Connection Size	Using Pressure (bar)	Manometer Pressure (bar)
51315	Oxygen Inlet Pressure Gauges (Manometers) 0-315 Bar	63	R 1/4"	0-230	0-315



Order no.	Product Description	Outer Diameter (mm)	Connection Size	Using Pressure (bar)	Manometer Pressure (bar)
51016	Oxygen Outlet Pressure Gauges (Manometers) 0-16 Bar	63	R 1/4"	0-10	0-16



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