

TABLE OF CONTENTS

Welding Consumables

Aluminium & Aluminium Alloy TIG Welding Rods & MIG Welding Wires	6 & 7
Stainless Steel TIG Welding Rods & MIG Welding Wires	6 & 7
Mild Steel (MS) Filler Wire	8
Submerged Arc Welding (SAW)	8

GROUP 1

Gas Welding & Cutting Equipments

Pressure Regulators	10 & 11
Gas Cutter and Nozzles	12
Pug Cutting Machine	13
Welding Torch & Heating Torches	14
LPG Regulator, Two-Way Valve & CO ₂ Assembly	15
Non Return Valve / Flash Back Arrestor	16
Rubber Hose for Welding	17
TPR Hose	18

GROUP 2

Electric Welding Accessories

Welding Cables	20
Welding Electrode Holders, Earth Clamp & Cable Connector	21
Welding Electrode Drying ovens	22 & 23
Welders' Helmets, Hand Shields, Wire Brush, Goggles & Chipping Hammer	24
Leather Safety Products	25
MIG Welding Torch	26
TIG Welding Torch	27
PVC Welding Torch (With & Without Air Compressor)	28

GROUP 3

Welding Power Sources

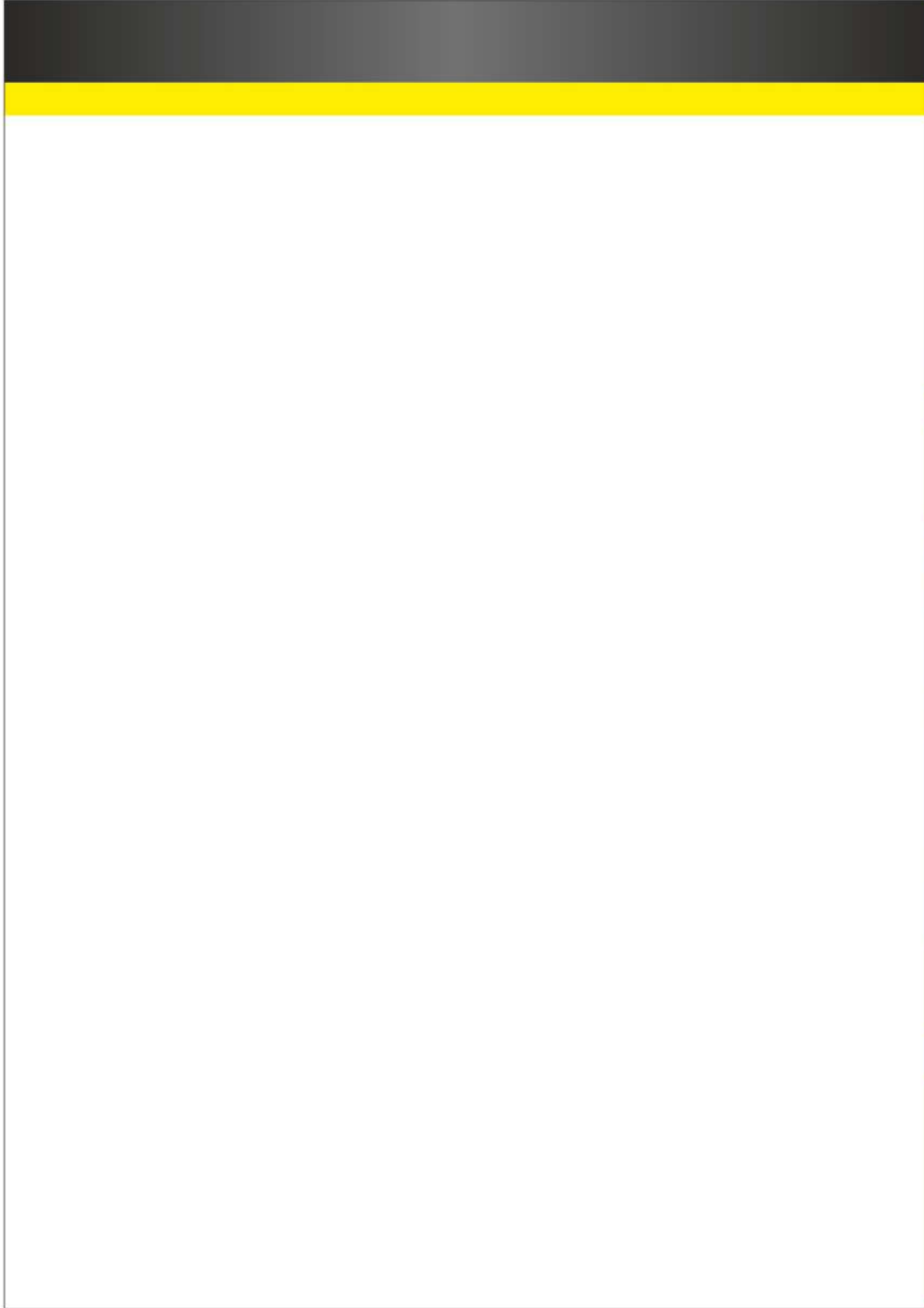
Inverter Base Rectifier for TIG & Electrode Welding	30
TIG Welding Set	30
Electrode Welding Set	30
MIG / MAG Welding Set	30

GROUP 4

Industrial Safety Products

Safety Helmet, Face Shield, Belt and Harness	32
Safety Shoes & PVC Gumboots	33

GROUP 5



GROUP

1

**WELDING
CONSUMABLES**





TIG / MIG WELDING CONSUMABLES

TIG / MIG RODS & WIRES
FOR ALUMINIUM, STAINLESS STEEL &
LOW ALLOY STEEL

ALUMINIUM TIG / MIG RODS & WIRES

DESIGNATION		CU	MG	SI	FE	MN	ZN
OLD	AWS						
G1B	1050	0.04	0.3	0.4	0.05	0.1
NG21	4043	0.1	0.2	4.5-6.0	0.6	0.5	0.2
NG2	4047	0.1	0.2	10-13	0.6	0.5	0.2
NG6	5356	0.1	4.5-5.5	0.6	0.5	0.5	0.2

'ARCON' ALUMINIUM TIG/MIG CONSUMABLES GOES THROUGH A SPECIAL SURFACE TREATMENT PROCESS WHICH ENSURES THEY ARE:

- HYDROCARBON FREE

- OIL FREE

FOLLOWING ARE THE IMPERFECTIONS THAT MIGHT CREEP IN THE WELDING DUE TO IMPURITIES ON THE SURFACE OF FILLER WIRE:

- POROSITY
- CRACKING
- POOR WELD BEAD PROFILE

NEW & IMPROVED



All cut lengths are embossed with grades. Cut lengths are available in composite cardboard packets containing 5 kg. each. MIG wires are available in plastic spools, 12.5 kg. (approx.) per spool for SS and 7.7 kg. (approx.) per spool for aluminium.

MILD STEEL (MS) FILLER WIRE

'ARCON' MS filler wire is known for better copper coating. This leads to following advantages during welding:

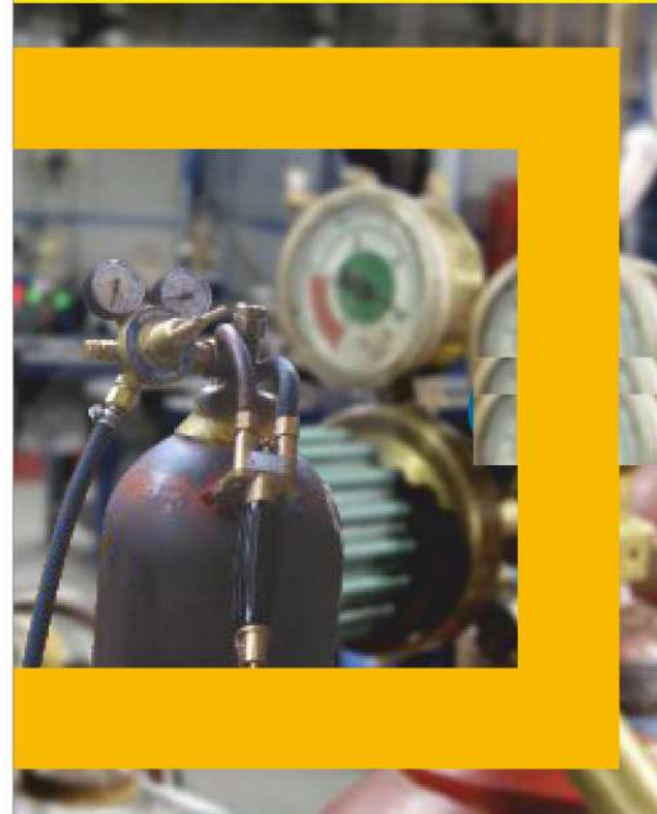
- Low spatters
- Better penetration leading to better weld quality



SUBMERGED ARC WELDING (SAW)

MILD STEEL WIRE

Submerged arc welding (SAW) is so named because the weld and arc zones are submerged beneath a blanket of flux. The flux material becomes conductive when it is molten, creating a path for the current to pass between the electrode and the work piece. SAW welding is known for its ability to deposit large amounts of metal quickly, consistently and safely. Hence, it is generally used for welding very large joint areas.



GROUP

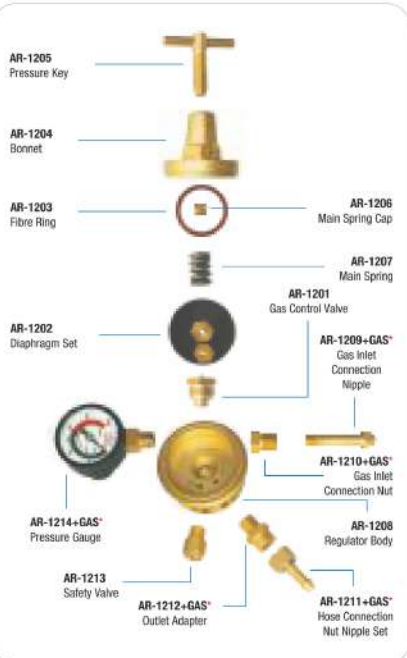
2

GAS WELDING & CUTTING EQUIPMENTS

PRESSURE REGULATORS

(SINGLE STAGE)

Single Stage Pressure Regulators are suitable for cutting, welding and heating processes. In this series, single gauge (showing only inlet pressure) and double gauge (showing both inlet and outlet pressure) regulators are available.



*+Gas indicates that for different gases, spare parts will be different. Other parts are common in the above series.

Standard Repairing Kit

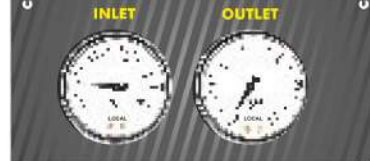
AR-1201	Gas Control Valve	1 No.
AR-1202+Gas	Diaphragm Set	1 No.
AR-1203	Fibre Ring	1 No.

Bronze Filters

100 Microns	Fitted in Gas Inlet Connection Nipple (AR-1209+Gas)	1 No.
50 Microns	Fitted in Gas Control Valve (AR-1201)	1 No.



NORMAL PRESSURE REGULATORS



AVAILABLE GAS 50 KG OUTPUT GAS 0 KG

ARCON PRESSURE REGULATORS



AVAILABLE GAS 10 KG OUTPUT GAS 2.5 KG

PRODUCE SUSTAINABLE PRESSURE EVEN IN LOW PRESSURE GAS

PRESSURE REGULATORS

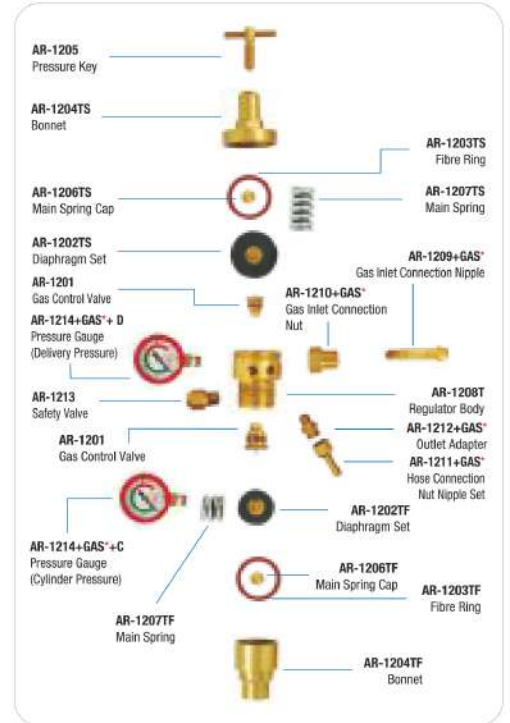
(TWO STAGE)

Two Stage Pressure Regulators are suitable for gas cutting, welding, brazing and heating processes. Two Stage Pressure Regulators minimise the chances of accident and ensure a greater life of diaphragms. Also outlet pressure is more accurate as compared to single stage because total pressure drops in two stages. In the First stage pressure is fixed and in the second stage it can be regulated by pressure key.



PRESSURE CHART

Gas	Inlet Pressure (Max.)	Outlet Pressure (Max.)
Oxygen	250 bar	16 bar
DA	40 bar	2.8 bar
Argon	250 bar	16 bar
CO2	250 bar	16 bar
Nitrogen	250 bar	16 bar
Hydrogen	250 bar	16 bar
LPG	16 bar	2.8 bar



*+Gas indicates that for different gases, spare parts will be different. Other parts are common in the above series.

Standard Repairing Kit

AR-1201	Gas Control Valve	2 Nos.
AR-1202TF	Diaphragm Set + Gas	1 No.
AR-1202TS	Diaphragm Set + Gas	1 No.
AR-1203	Fibre Ring	1 No.

Bar Pressure Conversion Factors

1	bar
14.5038	psi
1.01972	kg/cm ²

MANUAL BLOW PIPES

FOR CUTTING (GAS CUTTER)

Manual Blow Pipes are suitable for cutting of ferrous metals with both oxy-acetylene or oxy-fuel gas. Only difference for both gases is of cutting nozzles.



A-Type

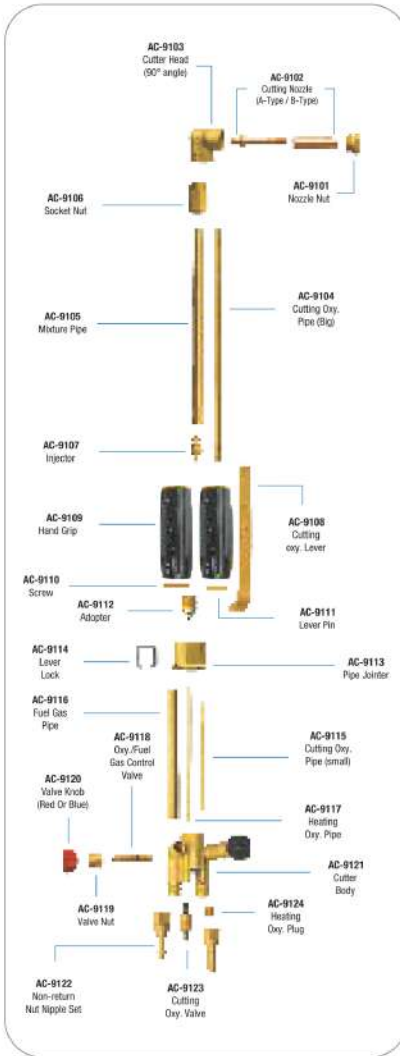
B-Type



IS 7853 - 1975



CMIL-2508167



Repairing Kit

All rubber washers used in cutter



MODEL A-DL9 (Also available in straight head)

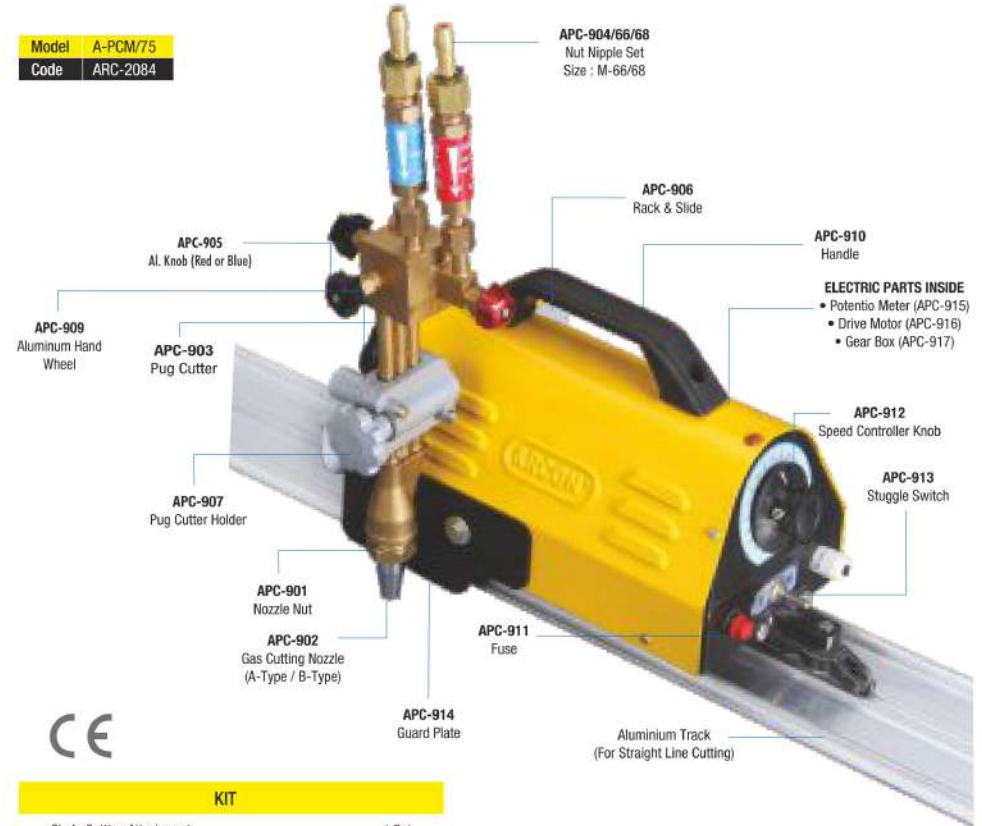
Additional lengths also available

SEMI-AUTOMATIC PORTABLE CUTTING MACHINE

(PUG CUTTING MACHINE)

'Arcon' Pug Cutting Machines are suitable for cutting ferrous metal sheets and plates in straight direction with oxy-acetylene or oxy-fuel gases. The only difference for both gases is of cutting nozzles. This machine is moved on an aluminium track specially designed for this purpose. You can adjust the speed of this machine according to the thickness of the cutting metals by speed controller knob (APC-912). The machine can be moved both in the forward and reverse direction with the help of struggle switch (APC-913).

Model A-PCM/75
 Code ARC-2084



KIT

Circle Cutting Attachment	1 Set
NRV / Arrestor (Oxy. & Fuel Gas)	1 no. each
Cutting Nozzle, B-3/64	1 no.
Connection Hose :	
1/4"	4 nos.
5/16"	2 nos.
Nut Hose Coupling :	
LH 1/4" BSP & RH 1/4" BSP	1 no. each
LH 5/16" BSP & RH 5/16" BSP	2 nos. each
Instructions Manual	1 no.

Suitable for cutting upto 75mm

**LOW PRESSURE MANUAL BLOW PIPES
FOR WELDING (WELDING TORCH)**

Low Pressure Manual Welding Blow Pipes are suitable for welding with oxygen and acetylene gases. In this low pressure system, oxygen is taken as usual from a high pressure cylinder but acetylene is generated by the action of water on carbide (usually calcium carbide) in low pressure acetylene generator. Tips and injector can be changed according to job thickness.



THIS TORCH IS SUITABLE FOR

- Gas welding with Oxy. - Carbide Gas / DA Gas / Hydrogen Gas
- Gas Welding & Heating with Oxy. - LPG
- Brazing with Oxy. - LPG / Hydrogen Gas / Coal Gas

Model	A-WT
Code	ARC-2076

NOTE : Nozzle/Tip hole will be larger in case of Gas Welding with Oxy.-LPG than with other gases.



**LOW PRESSURE HEATING TORCH
(LPG HEATING TORCH)**

Model	A-LPHT
Code	ARC-2086



- Heating burners are available in 0, 1, 2, 3, 4, 5 & 6 nos. 2 & 3 no. burners are available with the heating torch.
- For 0, 1, 2 & 3 no. burners - please use M-68 nipple and M-6 LPG industrial rubber hose.
- For 4, 5 & 6 no. burners - please use M-88 nipple and M-8 LPG industrial rubber hose for better results.

**HIGH PRESSURE HEATING TORCH
(OXY. / FUEL GAS HEATING TORCH)**

Model	A-HPHT
Code	ARC-2087



NOTE :

- Read operating instructions before use given with the product.
- Fuel Gas consists of the following gases - LPG, DA, Hydrogen.

**LPG REGULATORS
FOR INDUSTRIAL USE**

Available for 22mm & 25mm cylinder valves



Model	A-LPG
Code	ARC-2013



Model	A-1LPG
Code	ARC-2015



Model	A-2LPG
Code	ARC-2014

**TWO-WAY VALVE
FOR OXY. / FUEL GAS**



COMPLETE CO₂ ASSEMBLY

Model	A-CCA
Code	ARC-2075



INDUSTRIAL GAS MANIFOLD SYSTEM



CUSTOMISED PRODUCTS

'Arcon' group of companies strives to provide best products and services to its customers. Towards this end we undertake to provide customised products as per requirement of the customers. Our strong Research & Development team ensures that these products meet the needs of the customers.



THREE STAGE PRESSURE REGULATOR



CIRCULAR PIPE GAS CUTTER

NON RETURN VALVE (NRV) / FLASH BACK ARRESTOR (FBA)

'Arcon' group of companies have continuously strived for providing better safety to the users. We have tried to regularly improve safety measures in our products as well as introduce new products to improve safety. Towards this end we have following products:

Non Return Valve

This is used to prevent back flow of gas. Since fire needs gas to travel, preventing back flow of gas prevents back fire.

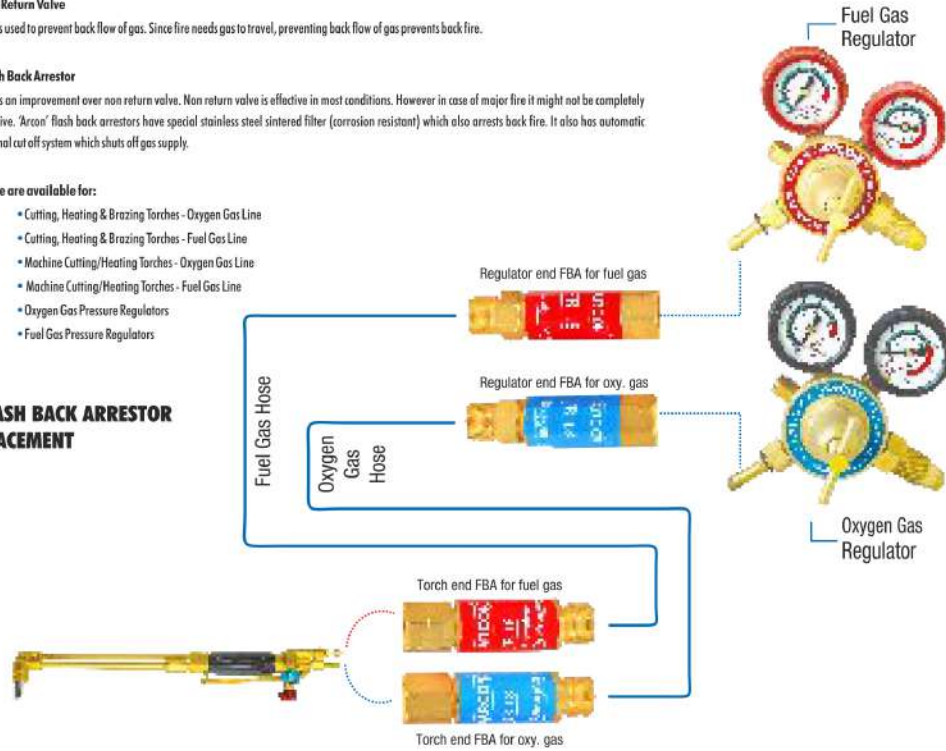
Flash Back Arrestor

This is an improvement over non return valve. Non return valve is effective in most conditions. However in case of major fire it might not be completely effective. 'Arcon' flash back arrestors have special stainless steel sintered filter (corrosion resistant) which also arrests back fire. It also has automatic thermal cut off system which shuts off gas supply.

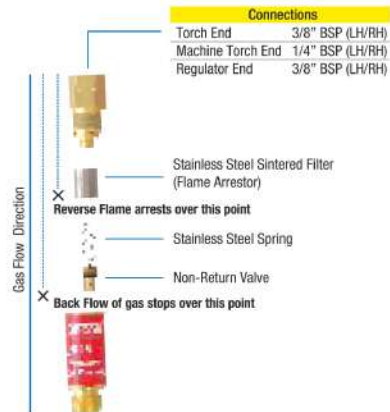
These are available for:

- Cutting, Heating & Brazing Torches - Oxygen Gas Line
- Cutting, Heating & Brazing Torches - Fuel Gas Line
- Machine Cutting/Heating Torches - Oxygen Gas Line
- Machine Cutting/Heating Torches - Fuel Gas Line
- Oxygen Gas Pressure Regulators
- Fuel Gas Pressure Regulators

FLASH BACK ARRESTOR PLACEMENT



FLASH BACK ARRESTOR FUNCTIONING (FOR TORCH END)



Fuel Gas Regulator

Oxygen Gas Regulator

RUBBER HOSE FOR WELDING

When welding, heating & cutting operations are done with oxygen - fuel gas flame, the gases are carried to the required equipment from different gas storage and cylinders with the help of rubber hose. The hose used should be light in weight and consistent with strength and durability and it must be nonporous to prevent loss of valuable gases.

'Arcon' hoses embodies the very best in engineering. These are carefully made of laboratory tested materials for the kind of ruggedness that keep it on the job longer and save your money.

Salient Features

- The delivery pressure of 'Arcon' hose is remarkably stable inspite of changes in flow rate temperature and other conditions. They are rugged in design and are very safe both of which are important aspects for superior performance.
- 'Arcon' Welding hose is made strictly as per IS 447:1988. All operations are inspected frequently during every stage of manufacturing. Finished product is carefully tested to make sure that they meet the specification for bursting pressure, tensile strength, elongation, adhesion strength test etc.
- This kind of quality control will assure that 'Arcon' hose you buy will be of the most superior quality.

IS 447 : 1988



It is hazardous to interchange acetylene hose or use other types of welding hose for LPG. LPG being Liquefied Petroleum Gas has corrosive action which dissolves interior of lining & this mixture would retard flame temperature and produce inferior cut. Also in extreme cases it could lead to explosion & serious fire. A special LPG hose with synthetic lining is recommended & can be supplied on request.



THERMOPLASTIC RUBBER HOSE

(TPR HOSE)

These have same use as of rubber hose. However, they have following advantages:

- Light in Weight: Weight of TPR hose is around 150 gm per meter as against 300 gm per meter of rubber hose.
- Flexibility: TPR hose is more flexible than rubber hose.
- Bursting Pressure: 'Arcon' TPR hose has more bursting pressure than rubber hose because of double braiding in it.

Due to the above factors, TPR hose is more suitable in following welding situations:

1. Overhead Welding
2. Circular Cutting



GROUP

3

ELECTRIC WELDING ACCESSORIES



WELDING CABLES

- H.O.F.R. (Heat, Oil and Flame Retardant) Welding Cables - Copper/Aluminium Conductor.
- T.R.S. (Tough Rubber Sheathed) General Service Welding Cables - Copper/Aluminium Conductor. Single core flexible welding cables are suitable for use where conductor temperature does not exceed 60°C for TRS and 90°C for HOFR rubber covering. All type of cables are ISI approved and manufactured by moulding process. By this process, the cables are more compact, resulting in more and more life. Welding cables are available in copper and aluminium conductors and both are available in TRS and HOFR insulations. These cables are available in 16mm² to 120mm² conductor area.



TECHNICAL SPECIFICATIONS

COPPER CONDUCTOR

Conductor Area (mm ²)	No. & Dia of wires (mm)	Current Rating Maximum on 60% Duty Cycle (Amps)		Nominal Thickness of Covering (mm)	Max. D.C. Resistance of Conductor at 20°C (ohms/km)		Weight of Copper (per 100 mtrs.)
		HOFR	TRS		HOFR / TRS	HOFR / TRS	
16	510/0.2	174	121	2.0	1.210	15.5	
25	800/0.2	228	161	2.0	0.780	24.0	
35	1114/0.2	285	201	2.0	0.554	33.5	
50	708/0.3	360	254	2.2	0.386	48.0	
70	999/0.3	454	320	2.4	0.272	67.0	
95	1350/0.3	547	386	2.6	0.206	90.5	

ALUMINIUM CONDUCTOR

Conductor Area (mm ²)	No. & Dia of wires (mm)	Current Rating Maximum on 60% Duty Cycle (Amps)		Nominal Thickness of Covering (mm)	Max. D.C. Resistance of Conductor at 20°C (ohms/km)		Weight of Copper (per 100 mtrs.)
		HOFR	TRS		HOFR / TRS	HOFR / TRS	
50	708/0.3	287	200	2.2	0.634	15.0	
70	999/0.3	361	253	2.4	0.445	21.0	
95	1350/0.3	438	306	2.6	0.334	28.5	
120	1702/0.3	522	365	2.8	0.256	34.5	

WELDING ELECTRODE HOLDERS

Welding Electrode Holders are suitable for manual metal arc welding with covered electrodes of length not more than 450mm. 'ARCON' welding holders are fitted with special copper alloy jaws which have more thermal conductivity than copper resulting in less heating problems during welding processes and hence greater life. There are four types of electrode holders as under:

Three varieties are available in both

A-Type & B-Type electrode holders :

Mark-I (600A/30%) - Suitable for all sizes of electrodes.

Mark-II (400A/30%) - Suitable up to 4.00mm electrodes.

Mark-III (200A/30%) - Suitable up to 3.15mm electrodes.



A-TYPE / HEAVY DUTY (600A) / 60%
This model is suitable for heavy duty welding.

A-TYPE

Fully insulated, suitable for adverse welding conditions like ship building or welding in enclosed condition. For example, inside vessels.

B-TYPE

Semi-insulated (for general open shop conditions).

RUBBER GRIP SCREW - TYPE
This model is available in 400A & 600A.

IDEAL WELDING JOB CONNECTION

EARTH CLAMP

Earth Clamps (Return Current Clamps) are suitable for ensuring electrical connection between return current cable and the work piece.

CABLE CONNECTOR

Welding Cable Connectors are suitable to connect any two lengths of flexible welding cable and are suitable to connect flexible welding cable to welding machine also.



FEATURES

- 'Arcon' Electrode Holders are suitable for use on circuit switch open circuit voltages up to and including 100 volts (rms).
- They are light in weight so as to reduce handling problems.
- They have the provision for alternative positions for gripping electrodes to avoid the necessity for bending the electrodes when welding in different positions.
- Their design is such that under normal conditions of service, it is possible to weld with electrodes in any position in the holder until a stub only 40 mm in length remains without damage to the holder.



WELDING ELECTRODE DRYING OVENS

The efficiency of welding electrodes can be seriously impaired if the coating of electrode is damp due to atmospheric moisture. This dampness causes water vapour to be generated in the arc shield which reduces the quality of welding. Drying the electrode in Welding Electrode Drying Oven helps in removing the dampness from electrode. 'Arccon' have a range of welding electrode drying ovens to suit many location and needs.

'Arccon' oven comes with fuel saving insulation. This along with high quality 'U' type heaters ensures quicker heating of oven and hence saves time and energy. These ovens are operated on single phase. Also all the 'Arccon' oven comes with siphoning system which ensures natural convection of heat and hence quicker drying of electrodes.

- Micro Controller Based Temperature Control System
- Double Display Temperature Controller
- Highly Accurate



TECHNICAL SPECIFICATIONS

Model	Electrode Capacity	Temperature Controller	Temperature	Input Supply	Load (Input Power)	Input Current	Overall Dimension	Storage Space	No. of Shelves	No. of Heating Elements	Empty Weight
MODEL : A-HOTS/5 CODE : ARC-3101	5 kg. (approx.)	Thermostat	50-250°C	230V-AC 50 Hz	500 Watts	2.0 A (approx.)	550mm x 135mm x 250mm	480mm x 70mm x 70mm	One	One	8 kg. (approx.)
MODEL : A-HOD/5 CODE : ARC-3102	5 kg. (approx.)	Digital	50-400°C	230V-AC 50 Hz	500 Watts	2.0 A (approx.)	550mm x 135mm x 280mm	480mm x 70mm x 70mm	One	One	8 kg. (approx.)
MODEL : A-HO/80V/5 CODE : ARC-3103	5 kg. (approx.)	Constant	150°C	80V-DC	300 Watts	3.5 A (approx.)	550mm x 135mm x 250mm	480mm x 70mm x 70mm	One	One	8 kg. (approx.)
MODEL : A-POTS/10 CODE : ARC-3104	10 kg. (approx.)	Thermostat	50-250°C	230V-AC 50 Hz	1.0 K.W.	4.0 A (approx.)	560mm x 450mm x 250mm	480mm x 150mm x 150mm	Two	Two	22 kg. (approx.)
MODEL : A-POD/10 CODE : ARC-3105	10 kg. (approx.)	Digital	50-400°C	230V-AC 50 Hz	1.0 K.W.	4.0 A (approx.)	560mm x 450mm x 250mm	480mm x 150mm x 150mm	Two	Two	22 kg. (approx.)

Model A-COD/50
Code ARC-3108



Model A-COD/100
Code ARC-3109



Siphoning System (ventilation of water vapour created during drying process)

TECHNICAL SPECIFICATIONS

Model	Electrode Capacity	Temperature Controller	Temperature	Input Supply	Load (Input Power)	Input Current	Overall Dimension	Storage Space	No. of Shelves	No. of Heating Elements	Empty Weight
MODEL : A-COTS/25 CODE : ARC-3106	25 kg. (approx.)	Thermostat	50-250° C	230V-AC 50 Hz	1.5 K.W.	7.5 A (approx.)	650mm x 740mm x 480mm	480mm x 300mm x 300mm	Five	Three	72 kg. (approx.)
MODEL : A-COD/25 CODE : ARC-3107	25 kg. (approx.)	Digital	50-400°C	230V-AC 50 Hz	1.5 K.W.	7.5 A (approx.)	650mm x 740mm x 480mm	480mm x 300mm x 300mm	Five	Three	72 kg. (approx.)
MODEL : A-COD/50 CODE : ARC-3108	50 kg. (approx.)	Digital	50-400°C	230V-AC 50 Hz	2.0 K.W.	10.0 A (approx.)	680mm x 670mm x 920mm	480mm x 500mm x 480mm	Five	Four	105 kg. (approx.)
MODEL : A-CODF/50 CODE : ARC-3111 (Flux)	50 kg. (approx.)	Digital	50-400°C	230V-AC 50 Hz	2.0 K.W.	10.0 A (approx.)	680mm x 670mm x 920mm	480mm x 500mm x 480mm	Five	Four	125 kg. (approx.)
MODEL : A-COD/100 CODE : ARC-3109	100 kg. (approx.)	Digital	50-400°C	230V-AC 50 Hz	3.0 K.W.	15.0 A (approx.)	800mm x 970mm x 1260mm	480mm x 700mm x 700mm	Ten	Six	200 kg. (approx.)
MODEL : A-CODF/100 CODE : ARC-3110 (Flux)	100 kg. (approx.)	Digital	50-400°C	230V-AC 50 Hz	3.0 K.W.	15.0 A (approx.)	800mm x 970mm x 1260mm	480mm x 700mm x 700mm	Ten	Six	200 kg. (approx.)

WELDERS' HELMETS

(WITH CLEAR POLYCARBONATE LENS)

Code ARC-3065

Welders' Helmets are supported on the head and are so designed to give maximum protection to the eyes, ears, face, neck and part of the top of the head of the user during welding and cutting processes.

CE



WELDERS' HAND SHIELDS

(WITH CLEAR POLYCARBONATE LENS)

Code ARC-3063

Welders' Hand Shields are held in hand and are so designed to give protection to the eyes, ears, face, neck and part of the head of the user during welding and cutting processes.

CE



WIRE BRUSH

These are used to clean the welded surface to remove slag and dust from it. Following are the types of wire brush available:

- Spring Steel - 3 Rows
- Spring Steel - 5 Rows
- Stainless Steel - 3 Rows
- Stainless Steel - 5 Rows

CE



WELDERS' GOGGLES

(WITH CLEAR POLYCARBONATE LENS)

Code ARC-3061

Welders' Goggles are worn over the eyes and held in place by a head band. They are used for protecting the eyes and eye sockets from flying particles and injurious radiations.

CE



CHIPPING HAMMER

Code ARC-3072

Chipping Hammers are used by welders for chipping welds & welding slag.

CE



LEATHER SAFETY PRODUCTS

HAND GLOVES

CE



Code ARC-3077-A

- Full white dd split leather
- Thickness of 1.2 mm to 1.5 mm
- Size: 14"

Code ARC-3077-B

- Palm white DD Chrome leather and rest white split leather
- Thickness of 1.2 mm to 1.5 mm
- Size: 14"

APRON

Code ARC-3080

- Chrome leather of thickness 1.2 mm to 1.5mm
- Size: 24" X 36"



LEG GUARD

Code ARC-3084

- Chrome leather of thickness 1.2 mm to 1.5mm
- Size: 18"



ARM GUARD

Code ARC-3082

- Chrome leather of thickness 1.2 mm to 1.5mm
- Size: 22"



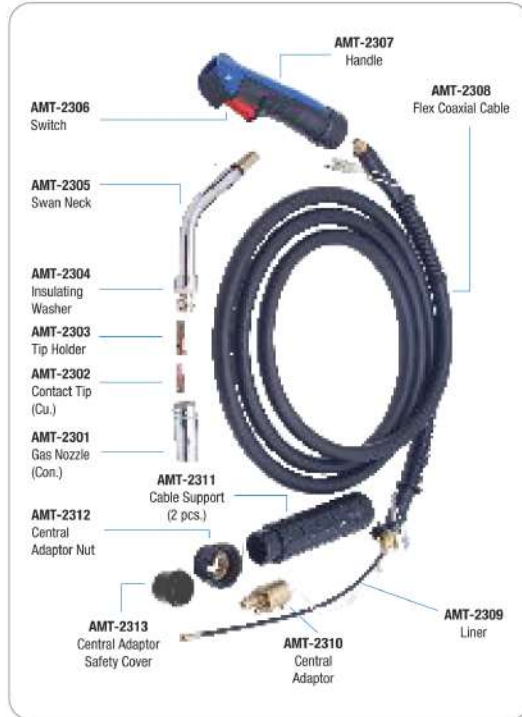
MIG / MAG / GMAW

SEMI-AUTOMATIC WELDING TORCH



SPARE PARTS

AMT-2301	Gas Nozzle (Con.)
AMT-2302 (a, b, c, d) ¹	Contact Tip (Cu.)
AMT-2303 (a, b) ²	Tip Holder
AMT-2304	Insulating Washer
AMT-2305	Swan Neck
AMT-2306	Switch
AMT-2307	Handle
AMT-2308 (a, b) ³	Flex Coaxial Cable
AMT-2309 (a, b) ⁴	Liner
AMT-2310	Central Adaptor
AMT-2311	Cable Support (2 pcs.)
AMT-2312	Central Adaptor Nut
AMT-2313	Central Adaptor Safety Cover



NOTE: Custom lengths of coaxial cable are available on request.

TECHNICAL SPECIFICATIONS

Model	Rating	Cooling method	Suitability	Gas Flow	Cable Size	Cable length	Weight with 3 mtr. cable	Connection
MODEL : A-MT/200 PROD. CODE : ARC-3201	200 Amp. at 60% duty cycle	Air cooling	Up to 0.8 mm MIG Wire	10 LPM	25 mm ²	3 mtr. (std.)	2.6 kg. (approx.)	Euro-Central connector
MODEL : A-MT/300 PROD. CODE : ARC-3211	300 Amp. at 60% duty cycle	Air cooling	Up to 1.2 mm MIG Wire	10 LPM	35 mm ²	3 mtr. (std.)	2.9 kg. (approx.)	Euro-Central connector

NOTE: 1. AMT-2302: Contact Tip (Cu.), a) M6, 0.8mm, b) M6, 1.2mm, c) M8, 0.8mm, d) M8, 1.2mm
 2. AMT-2303: Tip Holder, a) M6, b) M8
 3. AMT-2308: Flex Coaxial Cable, a) 25 mm², b) 35 mm²
 4. AMT-2309: Liner, a) Spring Liner for Co, gas, b) Teflon Liner for other gases

TIG / GTAW WELDING TORCH

(AIR COOLED & WATER COOLED)

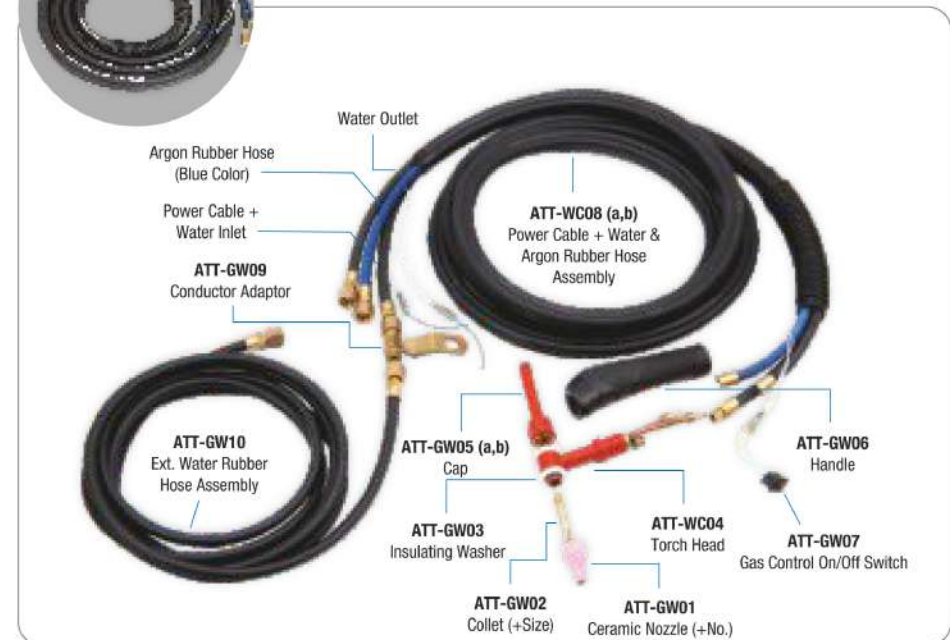
TECHNICAL SPECIFICATIONS

Model	Rating	Cooling method	Suitability	Gas Flow	Power Cable Size	Power Cable length	Weight with 4 mtr. cable
MODEL : A-TT/200(GC) PROD. CODE : ARC-3301	200 Amp. at 60% duty cycle	Gas cooling	Up to 2.4mm Tungsten Electrode	5-10 LPM	25 mm ²	4 mtr. (std.)	2.300 kgs. (approx.)
MODEL : A-TT/300(GC) PROD. CODE : ARC-3311	300 Amp. at 60% duty cycle	Gas cooling	Up to 3.0mm Tungsten Electrode	5-10 LPM	35 mm ²	4 mtr. (std.)	2.550 kgs. (approx.)
MODEL : A-TT/400(WC) PROD. CODE : ARC-3321	400 Amp. at 60% duty cycle	Water cooling	Up to 4.0mm Tungsten Electrode	5-10 LPM	8 mm ² (Tinned Copper)	4 mtr. (std.)	5.600 kgs. (approx.)
MODEL : A-TT/600(WC) PROD. CODE : ARC-3331	600 Amp. at 60% duty cycle	Water cooling	Up to 5.0mm Tungsten Electrode	5-10 LPM	10 mm ² (Tinned Copper)	4 mtr. (std.)	6.000 kgs. (approx.)



Model A-TT/400(WC)
Code ARC-3321

Model A-TT/600(WC)
Code ARC-3331



NOTE: Custom lengths of coaxial cable are available on request.

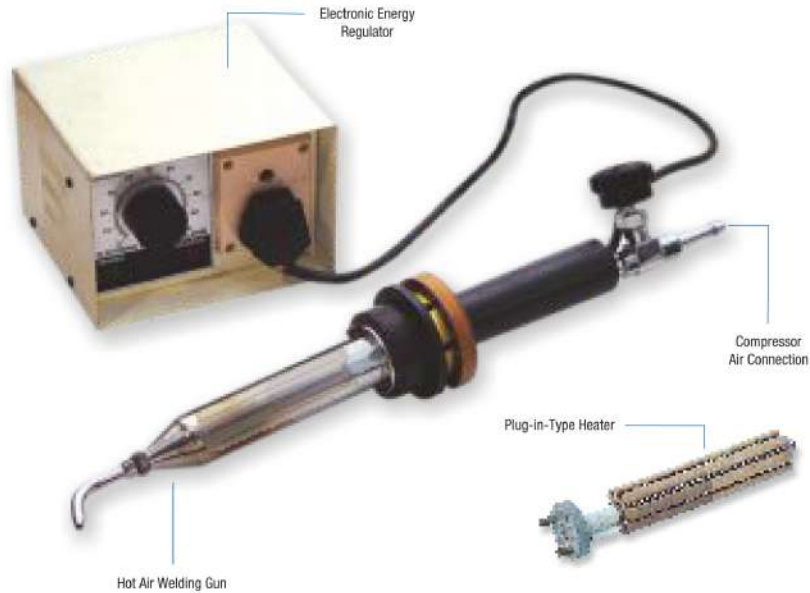
HOT AIR WELDING GUN (PVC WELDING TORCH)

(USED WITH AIR COMPRESSOR)

Code ARC-3131

Hot Air Welding is a fabrication process for thermoplastic* materials (like PVC, HDPE, PP, IDPE etc.). Heated air heats and melts both the thermoplastic substrate material and thermoplastic filler rods. This is a purely manual technique so weld quality is dependent on the skill of the welder. This process is mainly used in chemical storage vessels, ventilation ducting and repair of plastic mouldings such as car bumpers.

'Arcon' Hot Air Welding Gun is available in 230V - 750 watts along with power energy regulator. It also requires an air compressor for air supply through attached nipple.



HOT AIR WELDING GUN (PVC WELDING TORCH)

(USED WITHOUT AIR COMPRESSOR)

Code ARC-3135

This torch has same application as of traditional hot air welding gun. However, this torch has following advantages:

- There is no need of air compressor and energy regulator with this torch. The temperature and air flow control system is inbuilt in this torch.
- It is very light weight (around 250 grams) which ensures fatigue free welding.
- This torch is very compact and hence easy to handle.



*NOTE : There are two groups of plastic materials, Thermoplastics and Thermosets. The hot gas welding techniques is only applicable to those plastic materials that can be heated and melted repeatedly, namely Thermoplastics.



GROUP

4

WELDING POWER SOURCES

INVERTER BASE RECTIFIER

FOR ELECTRODE & TIG WELDING (THREE PHASE)

Model	A-IRTTE/400	Code	ARC-4012
Model	A-IRTTE/600	Code	ARC-4013

CE



INVERTER BASE RECTIFIER

FOR ELECTRODE & TIG WELDING (SINGLE PHASE)

Model	A-IRTE/200
Code	ARC-4011

CE



MIG / MAG WELDING SET

Model	A-RM/400	Code	ARC-4006
Model	A-RM/600	Code	ARC-4007

CE

TIG WELDING SET

Model	A-RTE/400	Code	ARC-4001
Model	A-RTE/600	Code	ARC-4002

ATTACHMENT (TIGNATOR) : ARC-4003

CE

ELECTRODE WELDING SET

Model	A-RTE/400	Code	ARC-4001
Model	A-RTE/600	Code	ARC-4002

CE



GROUP

5

INDUSTRIAL SAFETY PRODUCTS

safety with comfort

SAFETY HELMET

'Arcon' safety helmets are made strictly as per IS standard which ensure maximum protection while guaranteeing high level of comfort. The shell of the helmet is 3 mm thick (as specified in IS) which provides maximum shock absorption and penetration resistance. The fittings within the helmet are carefully done which ensures stability in case of high impact while being comfortable on the head.



Back View

CE

FACE SHIELD

Style A-Type with elastic
Code ARC-5051
Size 6" x 11"
Colour Clear



CE

INDUSTRIAL SAFETY BELT AND HARNESS

These are used to provide safety generally while working at higher elevations. 'Arcon' safety harness webbing is made of polyester which leads to higher strength of the harness.

FEATURES

- High Strength Webbing
- Comfortable to wear
- Fluorescent color for easy visibility



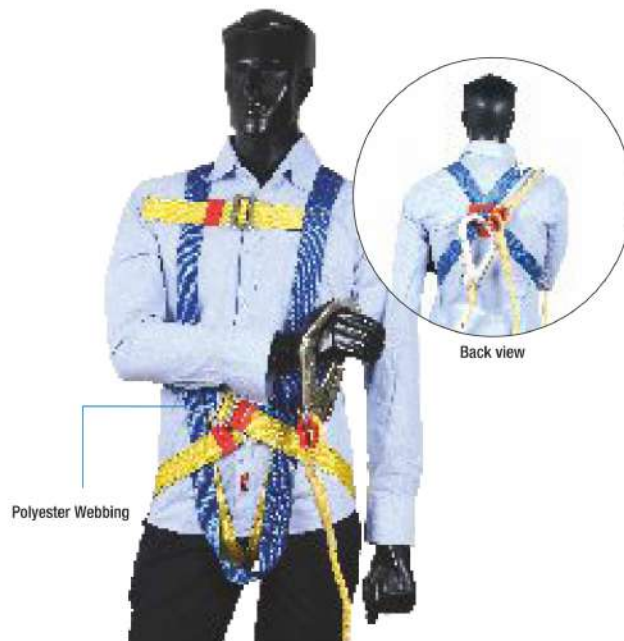
Auto Strip Lock Hook



Scaffold Hook



Karabiner Hook



Back view

Polyester Webbing



CE

SAFETY SHOES

(WITH STEEL TOE CAP)

CE



**P.V.C. SOLE SAFETY SHOES
(PVC-STANDARD)**

Code ARC-5506 to 5510



**P.U. INJECTION SAFETY SHOES
(PU-SUPREME)**

Code ARC-5646 to 5650



**P.U. INJECTION SAFETY SHOES
(PU-DOMINANT)**

Code ARC-5626 to 5630

PVC GUMBOOTS

(WITH FABRIC LINING)

CE



**SINGLE DENSITY
(HEIGHT: 310MM)**

Code ARC-5808 to 5810



**DOUBLE DENSITY
(HEIGHT: 350MM)**

Code ARC-5828 to 5829

PVC GUMBOOTS

(WITHOUT FABRIC LINING)

CE



**HALF KNEE
(HEIGHT: 210MM)**

Code ARC-5847 to 5850



**SHORT KNEE
(HEIGHT: 280MM)**

Code ARC-5867 to 5870