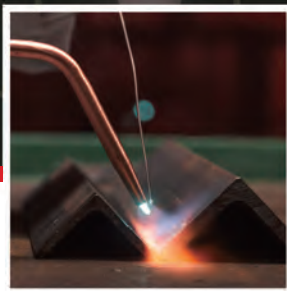


PROFESSIONAL
INDUSTRIAL
GAS WELDING AND
CUTTING EQUIPMENT





COMPANY PROFILE

MORRIS PRECISION TECHNOLOGY CO., LTD., a Taiwanese company set up in 1977, has been designing and manufacturing a wide range of industrial gas welding & cutting equipment and medical apparatus.

All the design and manufacture of MORRIS products strictly conform to international standards. Our production procedures are in conformity with ISO 9001 and ISO 13485 quality management systems. Besides, we have also obtained UL, CE and GMP certificates.



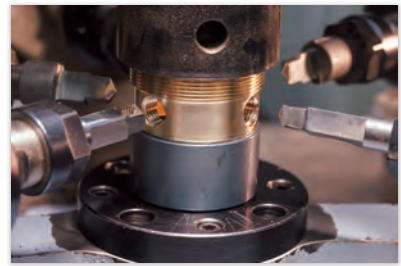
With a strong team of professional engineers, well-trained technicians, and responsive sales representatives, MORRIS has built up a good reputation in this field. Apart from our own brands, MORRIS also supplies OEM/ODM service for worldwide well-known company to meet various market and different customers' needs.

THE MANAGEMENT PHILOSOPHY OF MORRIS

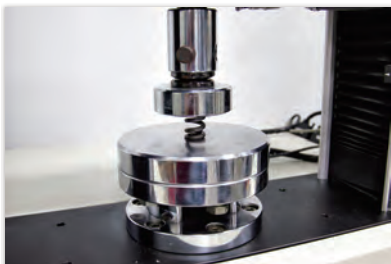
- Always exceed product innovation and reformation.
- Ensure providing high quality products as our primary goal.
- Our customers always come first.
- Sustainable management and development.



PRODUCTION MANUFACTURING



QUALITY CONTROL PROCESS





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NEW PRODUCT LAUNCH

OXY-FUEL BRAZING OUTFITS

A Brand New Selection for Cutting, Brazing, HVAC/R, and Plumbing Applications.

FEATURES :

- ▶ Cuts up to 3”(75mm), welds up to 3/8”(9mm).
- ▶ Stainless steel needle valves for precise flame adjustment.
- ▶ **Lightweight design provides more comfort.**
- ▶ Forged brass head and body for maximum strength.
- ▶ Unique portable tote design for easy carrying during operation.
- ▶ Rear entry regulators for better balance on small cylinders.
- ▶ **With all equipment necessary to braze except of cylinders.**

VMCW-11P

Model	VMCW-11P	
Torch Handle	VM-201 (3/8"-24N)	
Cutting Attachment	VM-202	
Check Valve	88-6FGR (3/8"-24 RH) & 88-6FGL (3/8"-24 LH)	
Oxygen Regulator	313-6M	
Acetylene Regulator	313-1.5M	
Tips	Welding	JVM-W(0)
	Cutting	3-101(0)
Accessories	Twin Hose: 12.5Ft 3/16" w/fittings, Spark lighter, Goggles and Tip Cleaners.	

VMCW-11P ▶



HCW-12P

Model	HCW-12P	
Torch Handle	19-6 (9/16"-18 N) / (3/8"-24N)	
Cutting Attachment	36-2	
Mixer	H-19-2E / D-50-C	
Check Valve	88-3FGR (9/16"-18 RH) & 88-3FGL (9/16"-18 LH)	
Oxygen Regulator	313-6M	
Acetylene Regulator	313-1.5M	
Tips	Welding	1390-0
	Cutting	3690-1AC
Accessories	Twin Hose: 12.5Ft 3/16" w/fittings, Spark lighter, Goggles and Tip Cleaners.	

HCW-12P ▶



AFCW-13P

Model	AFCW-13P	
Torch Handle	AF-411 (5/8"-18N)	
Cutting Attachment	AF-412	
Mixer	AF-413	
Check Valve	88-3AR1 (5/8"-18 RH) & 88-3AL1 (5/8"-18 LH)	
Oxygen Regulator	313-6M	
Acetylene Regulator	313-1.5M	
Tips	Welding	AG-W(2)
	Cutting	AFN-1
Accessories	Twin Hose: 12.5Ft 3/16" w/fittings, Spark lighter, Goggles and Tip Cleaners.	

AFCW-13P ▶





GAS OUTFITS





GAS WELDING AND CUTTING EQUIPMENT



CAPACITY :

- Light to Heavy duty

PACKAGE :

- Various package and easy for carrying and storage.



FEATURES :



Regulator

- Forged brass body / bonnet or chrome bonnet for maximum strength
- Oxygen regulator with safety relief valve for safe operation
- Neoprene or Stainless steel diaphragms
- Sintered metal inlet filter to trap impurities
- Side / Vertical / Rear inlets are available
- Easy to read dual scale gauges.



Flashback Arrestor or Check Valves are optional



Torch

- With two stainless steel needle valves for accurate flame adjustment and durability.
- No screws or soldered parts for easier maintenance

Attachment

- One or Double O-rings seal for quick, hand tight connection & leak free
- Forged brass body / Head for longer life
- Brass and Stainless steel lever are available.



T or R grade twin hose are available

Completed accessories

APPROVED / CONFORMITY WITH :



CUL listed for Regulators,



UL listed for Cutting Attachments, Torch Handles, Flashback Arrestors & Pressure Gauges



AS 4839 for Cutting and Welding Torches



EN ISO 2503 for Pressure and Flowmeter Regulators



AS 4267 for Pressure Regulators



EN ISO 5172 for Cutting Torches



ANSI for Goggles



EN 730-1 & EN ISO-5175-1 for Flashback Arrestors



VHCW-21 Series

VICTOR[®] Style OXY-ACETYLENE KIT | COMPLETE SET

CAPACITY :

Heavy Duty
Cuts up to 8"(200mm)
Welds up to 1/2"(12.7mm)

CERTIFICATIONS :

UL and CUL listed



FEATURES :

- Brass and stainless steel construction
- Torch handle w/two stainless steel needle valves for accurate flame adjustment and durability.
- Complete accessory package with hose, spark lighter, goggles, tip cleaners, and replacement O-rings.
- O-ring seal design for easy assembling and disassembling, and better for preventing leakage.
- Forged and extruded brass for excellent durability.
- With reverse flow check valves.



COMPLETE OUTFIT CONTENTS :

Model	VHCW-21TB	VHCW-21P	VHCW-21S
Torch Handle	VH-211	VH-211	VH-211
Cutting Attachment	VH-212	VH-212	VH-212
Check Valve	88-3FGR / 88-3FGL	88-3FGR / 88-3FGL	88-3FGR / 88-3FGL
Flashback Arrestor	H188 (Optional) H288 (Optional)	H188 (Optional) H288 (Optional)	H188 (Optional) H288 (Optional)
Oxygen Regulator	VH-7M	VH-7M	VH-7M
Acetylene Regulator	VH-1.4M	VH-1.4M	VH-1.4M
Tips	Welding	VH-W(1,3,5)	VH-W(1,3,5)
	Heating	VH-H(8)	VH-H(8)
	Cutting	1-101(1)	1-101(1)
Accessories	Twin Hose: 20Ft 1/4" w/fittings, Spark lighter, Goggles and Tip Cleaners	Twin Hose: 20Ft 1/4" w/fittings, Spark lighter, Goggles and Tip Cleaners	Twin Hose: 20Ft 1/4" w/fittings, Spark lighter, Goggles and Tip Cleaners
Net Weight	13.5 kg	11.0 kg	10 kg
Package Series	Stainless steel toolbox package for oxidization and collision-resistant.	Plastic box package for easy storage.	Paper box package for environmental protection.
Photo			



VMCW-22 Series

VICTOR® Style

OXY-ACETYLENE KIT | COMPLETE SET

CAPACITY :

Medium Duty
Cuts up to 6”(150mm)
Welds up to 3/8”(9mm)

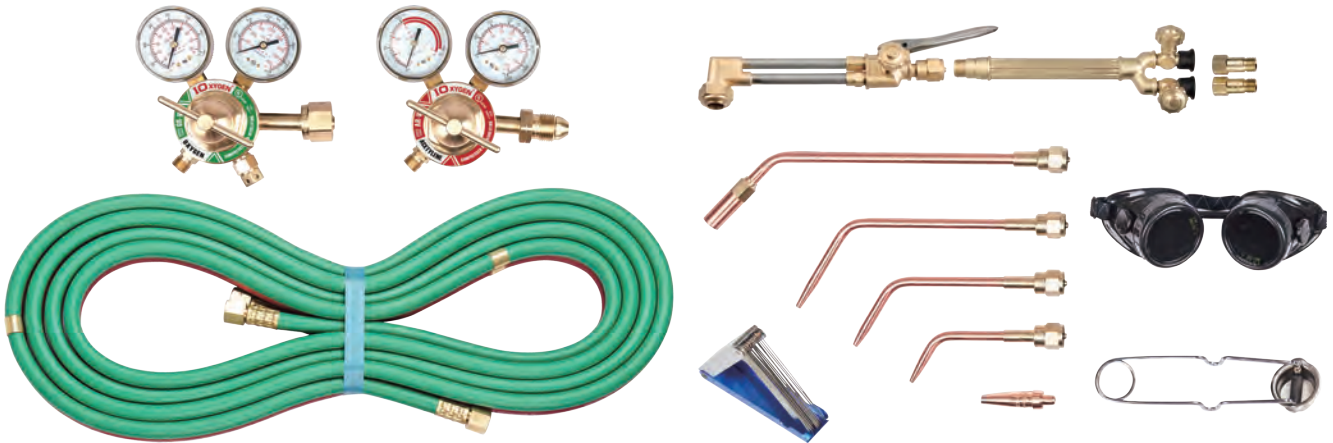
CERTIFICATIONS :

UL and CUL listed



FEATURES :

- Brass and stainless steel construction
- Torch handle w/two stainless steel needle valves for accurate flame adjustment and durability
- Complete accessory package with hose, spark lighter, goggles, tip cleaners, and replacement O-rings.
- O-ring seal design for easy assembling and disassembling, and better for preventing leakage.
- Forged and extruded brass for excellent durability.
- With reverse flow check valves.



COMPLETE OUTFIT CONTENTS :

Model	VMCW-22TB		VMCW-22P		VMCW-22S	
Torch Handle	VM-221		VM-221		VM-221	
Cutting Attachment	VM-222		VM-222		VM-222	
Check Valve	88-3FGR /88-3FGL		88-3FGR /88-3FGL		88-3FGR / 88-3FGL	
Flashback Arrestor	H188 H288 (Optional)		H188 H288 (Optional)		H188 H288 (Optional)	
Oxygen Regulator	VM-7M		VM-7M		25-7M	
Acetylene Regulator	VM-1.4M		VM-1.4M		25-1.4M	
Tips	Welding	VM-W(0,2,4)		VM-W(0,2,4)		
	Heating	VM-H(6)		VM-H(6)		
	Cutting	3-101(0)		3-101(0)		
Accessories	Twin Hose: 15Ft 1/4" w/fittings, Spark lighter, Goggles and Tip Cleaners		Twin Hose: 15Ft 1/4" w/fittings, Spark lighter, Goggles and Tip Cleaners		Twin Hose: 15Ft 1/4" w/fittings, Spark lighter, Goggles and Tip Cleaners	
Net Weight	10.2 kg		8.0 kg		6.7 kg	
Package Series	Steel toolbox package for collision-resistant.		Plastic box package for easy storage.		Paper box package for environmental protection.	
Photo						



HCW-23 Series

HARRIS[®] Style

OXY-ACETYLENE KIT | COMPLETE SET

CAPACITY :

Medium Duty
Cuts up to 6"(150mm)
Welds up to 3/8"(9mm)

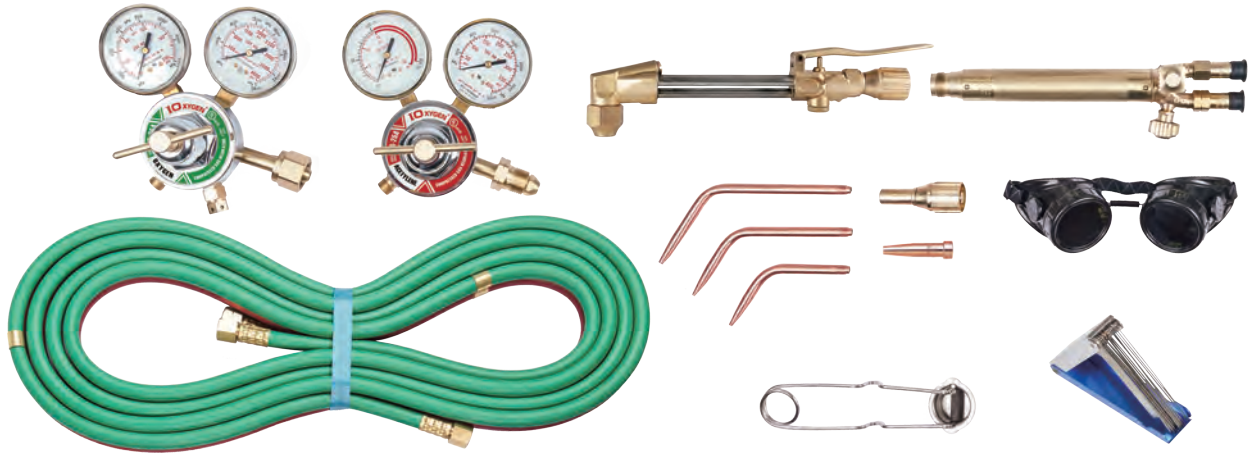
CERTIFICATIONS :

UL and CUL listed.



FEATURES :

- Brass and stainless steel construction
- Torch handle w/two stainless steel needle valves for more durable and accurate flame adjustment.
- Complete accessory package with hose, spark lighter, goggles, tip cleaners, and replacement O-rings.
- O-ring seal design for easy assembling and disassembling, and better for preventing leakage.
- Forged and extruded brass for excellent durability.
- With reverse flow check valves.



COMPLETE OUTFIT CONTENTS :

Model	HCW-23TB		HCW-23P		HCW-23C	
Torch Handle	HC63-2		HC63-2		HC63-2	
Cutting Attachment	HC73-2		HC73-2		HC73-2	
Mixer	E2-43		E2-43		E2-43	
Check Valve	88-3FGR / 88-3FGL		88-3FGR / 88-3FGL		88-3FGR / 88-3FGL	
Flashback Arrestor	H188 (Optional) H288		H188 (Optional) H288		H188 (Optional) H288	
Oxygen Regulator	25-7M		25-7M		VM-7M	
Acetylene Regulator	25-1.4M		25-1.4M		VM-1.4M	
Tips	Welding	HCW-W(3,5,7)		HCW-W(3)		
	Heating	J-63(1) (Optional)		J-63(1) (Optional)		
	Cutting	6290(1)		6290(1)		
Accessories	Twin Hose: 15Ft 1/4" w/fittings, Spark lighter, Goggles and Tip Cleaners		Twin Hose: 15Ft 1/4" w/fittings, Spark lighter, Goggles and Tip Cleaners		Twin Hose: 12.5Ft 1/4" w/fittings, Spark lighter, Goggles and Tip Cleaners	
Net Weight	8.7 kg		8.25 kg		7.5 kg	
Package Series	Plastic toolbox package for easy carrying.		Plastic box package for easy storage.		Clamshell package for easy product distinguishing.	
Photo						



VHCW-32 Series


VICTOR[®] Style

OXY-ACETYLENE KIT | ECONOMICAL SET

CAPACITY :

Heavy Duty
Cuts up to 8”(200mm)
Welds up to 1/2”(12.7mm)

CERTIFICATIONS :
















UL and CUL listed 

FEATURES :

- Brass and stainless steel construction
- Torch handle w/two stainless steel needle valves for accurate flame adjustment and durability
- O-ring seal design for easy assembling and disassembling, and better for preventing leakage.
- Forged and extruded brass for excellent durability.
- With reverse flow check valves.



COMPLETE OUTFIT CONTENTS :

Model	VHCW-32TB		VHCW-32P		VHCW-32S	
Torch Handle	VH-211		VH-211		VH-211	
Cutting Attachment	VH-212		VH-212		VH-212	
Check Valve	88-3FGR / 88-3FGL		88-3FGR / 88-3FGL		88-3FGR / 88-3FGL	
Flashback Arrestor	H188 (Optional) H288 (Optional)	 	H188 (Optional) H288 (Optional)	 	H188 (Optional) H288 (Optional)	 
Oxygen Regulator	450-7M		450-7M		450-7M	
Acetylene Regulator	450-1.4M		450-1.4M		450-1.4M	
Tips	Welding	VH-W(2)		VH-W(2)		
	Heating	Optional		Optional		
	Cutting	1-101(1)		1-101(1)		
Accessories	Twin Hose: 15Ft 1/4" w/fittings, Spark lighter, Goggles and Tip Cleaners		Twin Hose: 15Ft 1/4" w/fittings, Spark lighter, Goggles and Tip Cleaners		Twin Hose: 15Ft 1/4" w/fittings, Spark lighter, Goggles and Tip Cleaners	
Net Weight	9.5 kg		8.4 kg		7.9 kg	
Package Series	Plastic toolbox package for easy carrying.		Plastic box package for easy storage.		Paper box package for environmental protection.	
Photo						



VMCW-20 Series

VICTOR[®] Style OXY-ACETYLENE KIT | ECONOMICAL SET

CAPACITY :

Medium Duty
Cuts up to 6"(150mm)
Welds up to 3/8"(9mm)

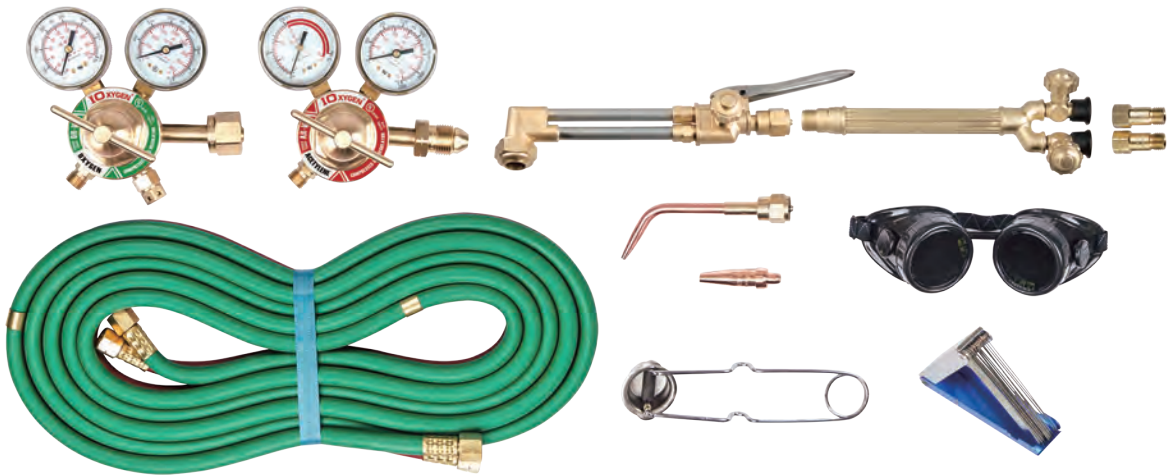
CERTIFICATIONS :

UL and CUL listed



FEATURES :

- Brass and stainless steel construction
- Torch handle w/two stainless steel needle valves for more durable and accurate flame adjustment.
- O-ring seal design for easy assembling and disassembling, and better for preventing leakage.
- Forged and extruded brass for excellent durability.
- With reverse flow check valves.



COMPLETE OUTFIT CONTENTS :

Model	VMCW-20TB		VMCW-20P		VMCW-20C	
Torch Handle	VM-221		VM-221		VM-221	
Cutting Attachment	VM-222		VM-222		VM-222	
Check Valve	88-3FGR / 88-3FGL		88-3FGR / 88-3FGL		88-3FGR / 88-3FGL	
Flashback Arrestor	H188 (Optional) H288		H188 (Optional) H288		H188 (Optional) H288	
Oxygen Regulator	VM-7M		VM-7M		VM-7M	
Acetylene Regulator	VM-1.4M		VM-1.4M		VM-1.4M	
Tips	Welding	VM-W(0)	VM-W(0)	VM-W(0)	VM-W(0)	VM-W(0)
	Heating	VM-H(6) (Optional)	VM-H(6) (Optional)	VM-H(6) (Optional)	VM-H(6) (Optional)	VM-H(6) (Optional)
	Cutting	3-101(0)	3-101(0)	3-101(0)	3-101(0)	3-101(0)
Accessories	Twin Hose: 12.5Ft 1/4" w/fittings, Spark lighter, Goggles and Tip Cleaners		Twin Hose: 12.5Ft 1/4" w/fittings, Spark lighter, Goggles and Tip Cleaners		Twin Hose: 12.5Ft 1/4" w/fittings, Spark lighter, Goggles and Tip Cleaners	
Net Weight	7.5 kg		6.8 kg		5.7 kg	
Package Series	Plastic toolbox package for easy carrying.		Plastic box package for easy storage.		Clamshell package for easy product distinguishing.	
Photo						



GCW-24 Series

CIGWELD® Style

OXY-ACETYLENE KIT / OXY-PROPANE KIT | COMPLETE SET

CAPACITY :

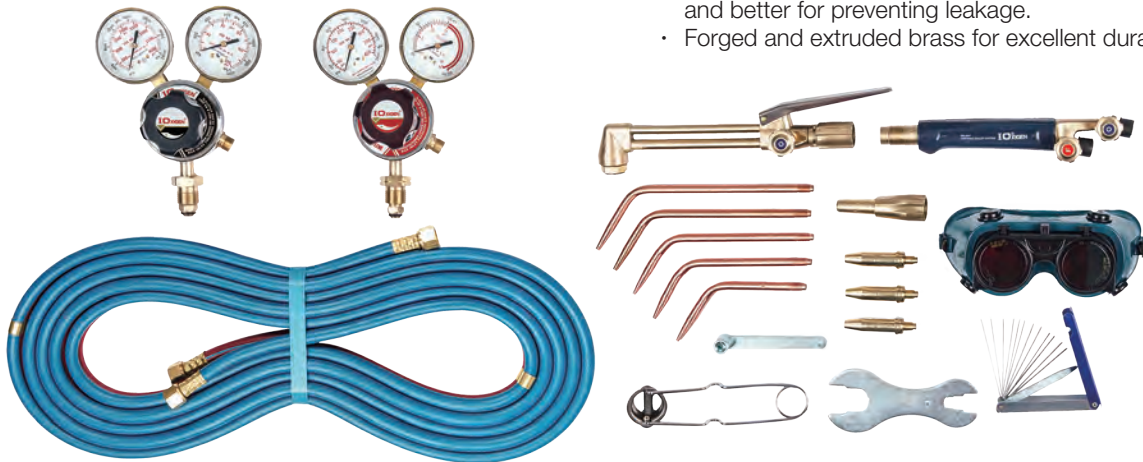
Medium Duty
Cuts up to 6”(150mm)
Welds up to 3/8”(9mm)

CERTIFICATIONS :










Conform with AS 4267 / AS 4839

FEATURES :

- Brass and stainless steel construction
- Torch handle w/two 2-stage stainless steel needle valves for fine-tuning function.
- Jagged design torch handle connection to enhance the stability.
- Complete accessory package with hose, spark lighter, goggles, tip cleaners and wrenches.
- O-ring seal design for easy assembling and disassembling, and better for preventing leakage.
- Forged and extruded brass for excellent durability.



COMPLETE OUTFIT CONTENTS :

Model	GCW-24TB	GCW-24P	GCW-14TB
Torch Handle	MG-241	MG-241	MG-241
Cutting Attachment	MG-242	MG-242	MG-242
Mixer	MG-243(AC) / MG-MIF (LPG)	MG-243(AC) / MG-MIF (LPG)	MG-243(AC) / MG-MIF (LPG)
Check Valve	88-3AR1 & 88-3AL1 (Optional)	88-3AR1 & 88-3AL1 (Optional)	88-3AR1 & 88-3AL1 (Optional)
Flashback Arrestor	H188 H288 (Optional) 	H188 H288 (Optional) 	H188 H288 (Optional) 
Oxygen Regulator	25-10M	25-10M	101-10M
Acetylene Regulator	25-1.5M	25-1.5M	101-1.5M
Tips	Welding	MG-W / MG-WP(8,10,12,15,20)	MG-W(8,12,15)
	Heating	MG-H (Optional)	MG-H (Optional)
	Cutting	41(AC-8,12,15) / 44(LPG-8,12,15)	41(AC-8,12,15) / 44(LPG-8,12,15)
Twin Hose	15Ft 3/16" w/fittings / 33Ft 3/16" w/fittings (Optional) 	15Ft 3/16" w/fittings 	15Ft 3/16" w/fittings 
Accessories	Spark lighter, Wrench, Goggles Tip Cleaners, Cylinder key. Twin wheel circle guide (Optional)	Spark lighter, Wrench, Goggles Tip Cleaners and Cylinder key	Spark lighter, Wrench, Goggles Tip Cleaners and Cylinder key
Net Weight	13.0 kg	8.0 kg	7.3 kg
Package Series	Steel toolbox package for collision-resistant.	Plastic box package for easy storage.	Plastic toolbox package for easy carrying.
Photo			



AGCW-33TB

AGA® Style OXY-ACETYLENE KIT | COMPLETE SET


CAPACITY :

Medium Duty
Cuts up to 6"(150mm)
Welds up to 1"(25mm)

CERTIFICATIONS :

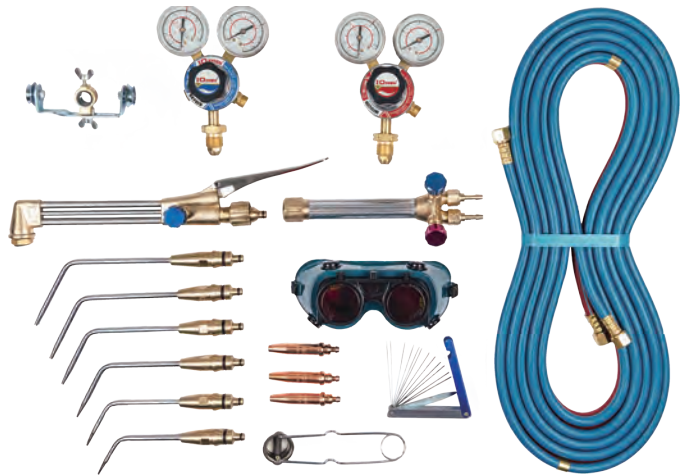
Conform with EN ISO 5172 / EN ISO 2503

COMPLETE OUTFIT CONTENTS :

Model	AGCW-33TB	
Torch Handle	AG-315	
Cutting Attachment	AG-316	
Check Valve	90-3FGR / 90-3FGL (Optional)	
Flashback Arrestor	H188 H288 (Optional)	
Oxygen Regulator	201-10M	
Acetylene Regulator	201-1.5M	
Tips	Welding	X21-W(1~6)
	Cutting	ANME(1,2,3)
Accessories	Twin Hose: 15Ft 3/16" w/fittings, Spark lighter, Goggles, Tip Cleaners and Twin wheel circle guide .	
Net Weight	11.7 kg	
Package Series	Stainless steel toolbox package for collision-resistant	

FEATURES :

- Brass and stainless steel construction
- Aluminum torch handle for less weight and beneficial for long-term operating.
- Complete accessory package with hose, spark lighter, goggles and tip cleaners.
- O-ring seal design for easy assembling and disassembling, and better for preventing leakage.
- Torch handle w/two stainless steel needle valves for more durable and accurate flame adjustment.
- Cutting attachment head is 90° (70°and 180° are available).
- With chrome-plated welding tips, flexible copper welding tips are optional.



AGCW-33P

AGA® X21 Style OXY-ACETYLENE KIT | COMPLETE SET


CAPACITY :

Medium Duty
Cuts up to 6"(150mm)
Welds up to 1"(25mm)

CERTIFICATIONS :

Conform with EN ISO 5172

COMPLETE OUTFIT CONTENTS :

Model	AGCW-33P	
Torch Handle	AG-315	
Cutting Attachment	AG-316	
Check Valve	88-1FGR / 88-1FGL (Optional)	
Flashback Arrestor	H188-RGB H188-LGB (Optional)	
Tips	Welding	X21-W(1~6)
	Cutting	ANME(1,2,3)
Accessories	Wrench, Tip Cleaner and Tip wheel circle guide	
Net Weight	4.6 kg	
Package Series	Plastic box package for easy storage.	

FEATURES :

- Brass and stainless steel construction
- Aluminum torch handle for less weight and beneficial for long-term operating.
- O-ring seal design for easy assembling and disassembling, and better for preventing leakage.
- Torch handle w/two stainless steel needle valves for more durable and accurate flame adjustment.
- Cutting attachment head is 90° (70°and 180° are available).





AGCW-28P

AGA® X11 Style OXY-ACETYLENE KIT | ECONOMICAL SET

CAPACITY :

Light Duty
Cuts up to 4”(100mm)
Welds up to 1/2”(12mm)

CERTIFICATIONS :

Conform with EN ISO 5172

COMPLETE OUTFIT CONTENTS :

Model		AGCW-28P
Torch Handle		AG-281
Cutting Attachment		AG-282
Check Valve		Optional
Quick Connector		AG-283
Tips	Welding	AGA-W(1,2,3,4,5,6)
	Cutting	HA211(1,2,3,4)
Accessories		Wrench, 3 Teflon packing, Twin wheel circle guide and Tip Cleaners
Net Weight		3.0 kg
Packing		Plastic box package for easy storage.

AGA is registered trademark of The Control Equipment AB.

FEATURES :

- Brass and stainless steel construction
- Aluminum torch handle for less weight and beneficial for long-term operating.
- O-ring seal design for easy assembling and disassembling, and better for preventing leakage.
- Torch handle w/two stainless steel needle valves for more durable and accurate flame adjustment.
- Cutting attachment head is 90° (70°and 180° are available).



HCW-18P

HARRIS® Style OXY-ACETYLENE KIT | COMPLETE SET

CAPACITY :

Medium Duty
Cuts up to 6”(150mm)
Welds up to 3/8”(9mm)

CERTIFICATIONS :

UL and CUL listed.



COMPLETE OUTFIT CONTENTS :

Model		VMCW-18P
Torch Handle		HC85-3
Cutting Attachment		HC72-3
Mixer		D-85
Check Valve		88-3FGR / 88-3FGL
Oxygen Regulator		313-6M
Acetylene Regulator		313-1.4M
Tips	Welding	6290-AC(0)
	Cutting	HCW-W(3)
Accessories		Twin Hose: 12.5Fts 3/16" w/fittings, Spark lighter and Goggles
Net Weight		6.0 kg
Package Series		Portable tote design for easy carrying during operation.

FEATURES :

- Rear entry regulators for better balance on small cylinders.
- Exclude gas cylinders.





VMCW-19P

VICTOR[®] Style OXY-ACETYLENE KIT | COMPLETE SET

CAPACITY :



Medium Duty
Cuts up to 6"(150mm)
Welds up to 3/8"(9mm)

CERTIFICATIONS :

UL and CUL listed



COMPLETE OUTFIT CONTENTS :

Model	VMCW-19P	
Torch Handle	VM-221	
Cutting Attachment	VM-222	
Check Valve	88-3FGR 88-3FGL	
Oxygen Regulator	313-6M	
Acetylene Regulator	313-1.4M	
Tips	Welding	VM-W(0)
	Cutting	3-101(0)
Accessories	Twin Hose: 12.5Ft 3/16" w/fittings, Spark lighter and Goggles	
Net Weight	6.5 kg	
Package Series	Portable tote design for easy carrying during operation.	

FEATURES :

- Rear entry regulators for better balance on small cylinders.
- Exclude gas cylinders.



VMCW-11P **NEW**

VICTOR[®] Style OXY-ACETYLENE KIT | COMPLETE SET

CAPACITY :



Light Duty.
Cuts up to 3"(75mm)
Welds up to 3/8"(9mm)

CERTIFICATIONS :

UL and CUL listed



COMPLETE OUTFIT CONTENTS :

Model	VMCW-11P	
Torch Handle	VM-201 (3/8"-24N)	
Cutting Attachment	VM-202	
Check Valve	88-6FGR (3/8"-24 RH) 88-6FGL (3/8"-24 LH)	
Oxygen Regulator	313-6M	
Acetylene Regulator	313-1.5M	
Tips	Welding	JVM-W(0)
	Cutting	3-101(0)
Accessories	Twin Hose: 12.5Ft 3/16" w/fittings, Spark lighter and Goggles	
Net Weight	6.0 kg	
Package Series	Portable tote design for easy carrying during operation.	

FEATURES :

- Stainless steel needle valves for precise flame adjustment.
- Lightweight design provides more comfort.
- Forged brass head and body for maximum strength.
- Unique portable tote design for easy carrying during operation.
- Rear entry regulators for better balance on small cylinders.
- With all equipment necessary to braze except of cylinders.






HCW-12P **NEW**

HARRIS® Style OXY-ACETYLENE KIT | COMPLETE SET

CAPACITY :

Light Duty
Cuts up to 3”(75mm)
Welds up to 1/4”(6mm)


CERTIFICATIONS :

UL and CUL listed. 

FEATURES :

- Stainless steel needle valves for precise flame adjustment.
- Lightweight design provides more comfort.
- Forged brass head and body for maximum strength.
- Unique portable tote design for easy carrying during operation.
- Rear entry regulators for better balance on small cylinders.
- With all equipment necessary to braze except of cylinders.

COMPLETE OUTFIT CONTENTS :

Model	HCW-12P	
Torch Handle	19-6 (9/16"-18 N) / (3/8"-24N)	
Cutting Attachment	36-2	
Mixer	H-19-2E / D-50-C	
Check Valve	88-3FGR (9/16"-18 RH) & 88-3FGL (9/16"-18 LH)	
Oxygen Regulator	313-6M	
Acetylene Regulator	313-1.5M	
Tips	Welding	1390-0
	Cutting	3690-1AC
Accessories	Twin Hose: 12.5Ft 3/16" w/fittings, Spark lighter and Goggles	
Net Weight	6.0 kg	
Package Series	Portable tote design for easy carrying during operation.	



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AFCW-13P **NEW**

AFROX® Style OXY-ACETYLENE KIT | COMPLETE SET

CAPACITY :

Light Duty
Cuts up to 3”(75mm)
Welds up to 1/4”(6mm)


CERTIFICATIONS :

UL and CUL listed. 

FEATURES :

- Stainless steel needle valves for precise flame adjustment.
- Lightweight design provides more comfort.
- Forged brass head and body for maximum strength.
- Unique portable tote design for easy carrying during operation.
- Rear entry regulators for better balance on small cylinders.
- With all equipment necessary to braze except of cylinders.

COMPLETE OUTFIT CONTENTS :

Model	AFCW-13P	
Torch Handle	AF-411 (5/8"-18N)	
Cutting Attachment	AF-412	
Mixer	AF-413	
Check Valve	88-3AR1 (5/8"-18 RH) & 88-3AL1 (5/8"-18 LH)	
Oxygen Regulator	313-6M	
Acetylene Regulator	313-1.5M	
Tips	Welding	AG-W(2)
	Cutting	AFN-1
Accessories	Twin Hose: 12.5Ft 3/16" w/fittings, Spark lighter, Goggles	
Net Weight	6.0 kg	
Package Series	Portable tote design for easy carrying during operation.	



AFROX is registered trademarks owned by The Linde Group .



AGCW-26P

BRITISH Style OXY-ACETYLENE KIT | COMPLETE SET



CAPACITY :

Light Duty
Cuts up to 75mm
Welds up to 5/16"(8mm)

CERTIFICATIONS :

Conform with EN ISO 5172 / EN ISO 2503

COMPLETE OUTFIT CONTENTS :

Model		AGCW-26P	
Torch Handle		AG-261	
Cutting Attachment		AG-262	
Mixer		AG-263	
Flashback Arrestor		H188 H288 (Optional)	 
Oxygen Regulator		101-10M	
Acetylene Regulator		101-1.5M	
Tips	Welding	AG-W(2,5,10)	
	Cutting	ANME(1)	
Accessories		Twin Hose: 15Fts 1/4" w/fittings, Spark lighter, Goggles and Tip Cleaners	
Net Weight		7.0 kg	
Package Series		Plastic box package for easy storage.	

The regulator is available for US standard.

FEATURES :

- Brass and stainless steel construction
- Torch handle w/two stainless steel needle valves for more durable and accurate flame adjustment.
- Forged and extruded brass for excellent durability.



AFCW-31P

AFROX® Style OXY-ACETYLENE KIT | COMPLETE SET



CAPACITY :

Medium Duty
Cuts up to 6"(150mm)
Welds up to 3/8"(9mm)

CERTIFICATIONS :

Conform with EN ISO 5172 / EN ISO 2503

COMPLETE OUTFIT CONTENTS :

Model		AFCW-31P	
Torch Handle		AF-311	
Cutting Attachment		AF-312	
Mixer		AF-313	
Flashback Arrestor		H188 (Optional) H288	 
Oxygen Regulator		25-10M	
Acetylene Regulator		25-1.4M	
Tips	Welding	AF-W(3,5,7)	
	Heating	Optional	
	Cutting	ANME(1)	
Accessories		Twin Hose: 15Ft 1/4" w/fittings, Spark lighter, Goggles and Tip Cleaners	
Net Weight		8.2 kg	
Package Series		Plastic box package for easy storage.	

AFROX is registered trademarks owned by The Linde Group .

FEATURES :

- Brass and stainless steel construction.
- Torch handle w/two 2-stage stainless steel needle valves for fine-tuning function.
- Forged and extruded brass for excellent durability.





HCW-35P

HARRIS[®] Style OXY-ACETYLENE KIT | COMPLETE SET

CAPACITY :

Medium Duty
Cuts up to 6”(150mm)
Welds up to 1/2”(12.7mm)

CERTIFICATIONS :

UL and CUL listed.



COMPLETE OUTFIT CONTENTS :

Model	HCW-35P	
Torch Handle	43-2	
Cutting Attachment	49-2	
Mixer	E2-43	
Flashback Arrestor	H188 (Optional) H288	
Oxygen Regulator	450-7M	
Acetylene Regulator	450-1.4M	
Tips	Welding	HCW-W(3,5,7)
	Heating	Optional
	Cutting	6290(2)
Accessories	Twin Hose: 15Ft 1/4" w/fittings, Spark lighter, Goggles and Tip Cleaners	
Net Weight	8.0 kg	
Package Series	Plastic box package for easy storage.	

FEATURES :

- Brass and stainless steel construction
- Torch handle w/ two stainless steel needle valves for more durable and accurate flame adjustment.
- Complete accessory package with hose, spark lighter, goggles and tip cleaners.
- O-ring seal design for easy assembling and disassembling, and better for preventing leakage.
- Forged and extruded brass for excellent durability.
- With reverse flow check valves.



HCW-36P

HARRIS[®] Style OXY-ACETYLENE KIT | COMPLETE SET

CAPACITY :

Medium Duty
Cuts up to 6”(150mm)
Welds up to 3/8”(9mm)

CERTIFICATIONS :

UL and CUL listed.



COMPLETE OUTFIT CONTENTS :

Model	HCW-36P	
Torch Handle	43-2	
Cutting Attachment	59-3	
Mixer	E2-43	
Flashback Arrestor	H188 (Optional) H288	
Oxygen Regulator	450-7M	
Acetylene Regulator	450-1.4M	
Tips	Welding	HCW-W(3,5,7)
	Heating	Optional
	Cutting	ANME(1)
Accessories	Twin Hose: 15Ft 1/4" w/fittings, Spark lighter, Goggles and Tip Cleaners	
Net Weight	8.0 kg	
Package Series	Plastic box package for easy storage.	

FEATURES :

- Brass and stainless steel construction
- Torch handle w/ two stainless steel needle valves for more durable and accurate flame adjustment.
- Complete accessory package with hose, spark lighter, goggles and tip cleaners.
- O-ring seal design for easy assembling and disassembling, and better for preventing leakage.
- Forged and extruded brass for excellent durability.
- With reverse flow check valves.





UCW-37P

BRITISH Style OXY-ACETYLENE KIT | COMPLETE SET



CAPACITY :

Medium Duty
Cuts up to 6”(15mm)
Welds up to 3/8”(9mm)

CERTIFICATIONS :

Conform with EN ISO 5172 / EN ISO 2503

COMPLETE OUTFIT CONTENTS :

Model		UCW-37P	
Torch Handle		UNI-3	
Cutting Attachment		UNI-4	
Mixer		UNI-5	
Flashback Arrestor		H188 (Optional) H288	 
Oxygen Regulator		201-10M	
Acetylene Regulator		201-1.5M	
Tips	Welding	AF-W (3,5,7)	
	Cutting	ANME(1)	
Accessories		Twin Hose: 15Ft 1/4" w/fittings, Spark lighter, Goggles and Tip Cleaners	
Net Weight		7.8 kg	
Package Series		Plastic box package for easy storage.	

FEATURES :

- Brass and stainless steel construction.
- O-ring seal design for easy assembling and disassembling, and better for preventing leakage.
- Torch handle w/two stainless steel needle valves for more durable and accurate flame adjustment.
- Forged and extruded brass for excellent durability.




HCW-38P

HARRIS[®] Style OXY-ACETYLENE KIT | ECONOMICAL SET




CAPACITY :

Medium Duty
Cuts up to 6”(150mm)
Welds up to 3/8”(9mm)

CERTIFICATIONS :

UL and CUL listed. 

COMPLETE OUTFIT CONTENTS :

Model		HCW-38P	
Torch Handle		HC85-3	
Cutting Attachment		HC72-3	
Mixer		D-85	
Flashback Arrestor		H188 (Optional) H288	 
Oxygen Regulator		VM-7M	
Acetylene Regulator		VM-1.4M	
Tips	Welding	HCW-W (3)	
	Heating	J-63 (1)	
	Cutting	6290 (1)	
Accessories		Twin Hose: 12.5Ft 1/4" w/fittings, Spark lighter, Goggles and Tip Cleaners	
Net Weight		7.2 kg	
Package Series		Plastic box package for easy storage.	

FEATURES :

- Brass and stainless steel construction
- Torch handle w/two stainless steel needle valves for more durable and accurate flame adjustment.
- Complete accessory package with hose, spark lighter, goggles, tip cleaners, and replacement O-rings.
- O-ring seal design for easy assembling and disassembling, and better for preventing leakage.
- Forged and extruded brass for excellent durability.
- With reverse flow check valves.





GLCW-81

GLOOR® Style OXY-ACETYLENE KIT | COMPLETE SET

CAPACITY :

Medium Duty.
Cuts up to 4”(100mm), Welds up to 1/2” (12.7mm)

CERTIFICATIONS :

Conform with EN ISO 5172



COMPLETE OUTFIT CONTENTS :

Model	GLCW-81	
Torch Handle	810201	
Cutting Attachment	810202	
Tips	Welding	810203-1(#1) / 810204-2(#2) / 810205-3(#3) / 810206-4(#4) / 810207-5(#5) / 810208-6(#6) / 810209-7(#7) / 810210-8(#8)
	Cutting	810211 / 810212 / 810213
Accessories	Wrenches, Guiding carriage, Circle Guide and Tip Cleaners.	
Net Weight	7.0 kg	
Package Series	Steel toolbox package for collision-resistant.	

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CWG-8302

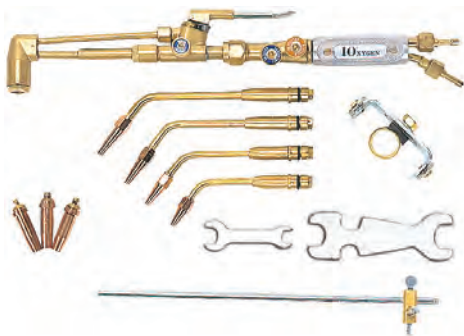
GLOOR® Style OXY-ACETYLENE KIT | COMPLETE SET

CAPACITY :

Medium Duty.
Cuts up to 4”(100mm), Welds up to 1/4” (6mm)

CERTIFICATIONS :

Conform with EN ISO 5172



COMPLETE OUTFIT CONTENTS :

Model	CWG-8302	
Torch Handle	810201	
Cutting Attachment	810202	
Tips	Welding	810203-1(#1) / 810204-2 (#2) / 810205-3(#3) / 810206-4(#4)
	Cutting	810211 (Size 1) / 810212 (Size 2) / 810213 (Size 3)
Accessories	Hose Connection G 1/4-RH, G 3/8-LH Wrenches, Guiding Carriage and Circle Guide.	
Net Weight	2.9 Kg	
Package Series	Paper box package for environmental protection.	

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CWZ-8608

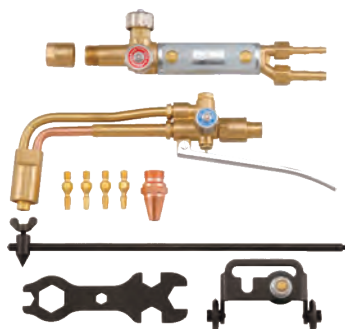
ZINSER® Style OXY-PROPANE KIT | COMPLETE SET

CAPACITY :

Medium Duty
Cuts up to 6”(150mm), Welds up to 1”(25mm)

CERTIFICATIONS :

Conform with EN ISO 5172



FEATURES :

- Three stainless steel needle valves for precise flame adjustment and better durability
- Forged brass head and body

COMPLETE OUTFIT CONTENTS :

Model	CWZ-8608	
Torch Handle	ZIN-313	
Cutting Attachment	ZIN-314	
Cutting Tips	ZCWA01 (#H1) / ZCWA02 (#S1) / ZCWA03 (#S2) / ZCWA04 (#S3) / ZCWA05 (#S4)	
Accessories	Hose Connection G 1/4-RH, G 3/8-LH Wrenches, Guiding carriage and Circle Guide.	
Net Weight	2.3 Kg	
Package Series	Paper box package for environmental protection.	

ZINSER is registered trademarks owned by Schweisstechnik GmbH & Co.



PRESSURE REGULATORS





VH Series

VICTOR® Style

Single Stage with 2 Gauges

FEATURES :

- Single stage construction
- Forged brass body & bonnet for maximum strength
- Forged adjusting knob with stainless steel ball for easy pressure adjustment and abrasion resistant
- Stainless steel diaphragms
- Oxygen regulator with safety relief valve is set for safe operation
- Sintered metal inlet filter to trap impurities
- No soldered joints for easy maintenance
- Side entry

SPECIFICATIONS :

Model No.	Gas	Max. Inlet Pressure (BAR)	Delivery Pressure (BAR)	Max. Working Pressure (BAR)
VH-1.4M-AC	Acetylene	28	1.4	2
VH-3.5M-LP	Propane	28	3.5	5
VH-7M-OX	Oxygen	315	7	14
VH-7M-*	Argon/CO2/Nitrogen/ Hydrogen/Helium/Air	315	7	14
VH-13M-OX	Oxygen	315	13	28
VH-13M-*	Argon/CO2/Nitrogen/ Hydrogen/Helium/Air	315	13	28


*Always specify model number and gas when ordering.

**Inlet and outlet connection will be supplied to suit your requirement.

CAPACITY : Heavy Duty

NET WEIGHT : 2.3kg / each

CERTIFICATIONS :

UL listed and CUL listed 



VM Series

VICTOR® Style

Single Stage with 2 Gauges

FEATURES :

- Single stage construction
- Forged brass body & bonnet for maximum strength
- Neoprene steel diaphragms
- Oxygen regulator with safety relief valve is set for safe operation
- Sintered metal inlet filter to trap impurities
- No soldered joints, for easy maintenance
- Side entry

SPECIFICATIONS FOR AMERICAN TYPES :

Model No.	Gas	Max. Inlet Pressure (BAR)	Delivery Pressure (BAR)	Max. Working Pressure (BAR)
VM-1.4M-AC	Acetylene	28	1.4	2
VM-3.5M-LP	Propane	28	3.5	5
VM-7M-OX	Oxygen	315	7	14
VM-7M-*	Argon/CO2	315	7	14

SPECIFICATIONS FOR EURO TYPE :

Model No.	Gas	Max. Inlet Pressure (BAR)	Delivery Pressure (BAR)	Max. Working Pressure (BAR)
VM-1.5M-AC	Acetylene	40	1.5	2.5
VM-3.5M-LP	Propane	40	3.5	5
VM-10M-OX	Oxygen	315	10	16
VM-10M-*	Argon/CO2/Nitrogen/ Hydrogen/Helium	315	10	16


*Always specify model number and gas when ordering.

**Inlet and outlet connection will be supplied to suit your requirement.

CAPACITY : Medium Duty

NET WEIGHT : 1.2kg / each

CERTIFICATIONS :

UL listed and CUL listed 



Conformity with EN ISO 2503



EURO TYPE



450 Series

VICTOR® Style

Single Stage with 2 Gauges

FEATURES :

- Single stage construction
- Forged brass body & bonnet for maximum strength
- Neoprene diaphragms
- Oxygen regulator with safety relief valve is set for safe operation
- Sintered metal inlet filter to trap impurities
- No soldered joints for easy maintenance
- Side entry (Vertical optional)

SPECIFICATIONS FOR AMERICAN TYPES :

Model No.	Gas	Max. Inlet Pressure (BAR)	Delivery Pressure (BAR)	Max. Working Pressure (BAR)
450-1.4M-AC	Acetylene	28	1.4	2
450-3.5M-LP	Propane	28	3.5	5
450-7M-OX	Oxygen	315	7	14
450-13M-OX	Oxygen	315	13	28
450-13M-*	Argon/CO2/Nitrogen/ Hydrogen/Helium/Air	315	13	28

SPECIFICATIONS FOR EURO TYPE :

Model No.	Gas	Max. Inlet Pressure (BAR)	Delivery Pressure (BAR)	Max. Working Pressure (BAR)
450-1.5M-AC	Acetylene	40	1.5	2.5
450-3.5M-LP	Propane	40	3.5	5
450-10M-OX	Oxygen	315	10	16
450-10M-*	Argon/CO2/Nitrogen/ Hydrogen/Helium/Air	315	10	16
450-15M-OX	Oxygen	315	15	25
450-15M-*	Argon/CO2/Nitrogen/ Hydrogen/Helium/Air	315	15	25

*Always specify model number and gas when ordering.

**Inlet and outlet connection will be supplied to suit your requirement.

CAPACITY : Heavy / Medium Duty

NET WEIGHT : 1.8kg / each

CERTIFICATIONS :

UL listed and CUL listed



CONFORM WITH EN ISO 2503



EURO TYPE

350 Series

VICTOR® Style

Single Stage with 2 Gauges

FEATURES :

- Single stage construction
- Forged brass body & bonnet for maximum strength
- Neoprene diaphragms
- Oxygen regulator with safety relief valve is set for safe operation
- Sintered metal inlet filter to trap impurities
- No soldered joints, for easy maintenance
- Side entry (Vertical optional)
- An integrated valve enhances the stability.

SPECIFICATIONS FOR AMERICAN TYPES :

Model No.	Gas	Max. Inlet Pressure (BAR)	Delivery Pressure (BAR)	Max. Working Pressure (BAR)
350-1.4M-AC	Acetylene	28	1.4	2
350-3.5M-LP	Propane	28	3.5	5
350-7M-OX	Oxygen	315	7	14
350-13M-OX	Oxygen	315	13	28
350-13M-*	Argon/CO2/Nitrogen/ Hydrogen/Helium/Air	315	13	28

*Always specify model number and gas when ordering.

**Inlet and outlet connection will be supplied to suit your requirement.

CAPACITY :

Heavy / Medium Duty

NET WEIGHT :

1.8 kg / each

CERTIFICATIONS :

Conform with EN ISO 2503





25 Series

HARRIS® Style

Single Stage with 2 Gauges

FEATURES :

- Single stage construction
- Forged brass body for maximum strength
- Chrome bonnet
- Neoprene diaphragms
- Oxygen regulator with safety relief valve is set for safe operation
- Sintered metal inlet filter to trap impurities
- No soldered joints, for easy maintenance
- Side entry (Vertical optional)
- T Screw (Knob optional)

CAPACITY :

Medium Duty

NET WEIGHT :

1.7 kg / each

CERTIFICATIONS :

UL listed and CUL listed



SPECIFICATIONS FOR AMERICAN TYPES :

Model No.	Gas	Max. Inlet Pressure (BAR)	Delivery Pressure (BAR)	Max. Working Pressure (BAR)
25-1.4M-AC	Acetylene	28	1.4	2
25-3.5M-LP	Propane	28	3.5	5
25-7M-OX	Oxygen	315	7	14
25-7M-*	Argon/CO2/Nitrogen/ Hydrogen/Helium/Air	315	7	14
25-13M-OX	Oxygen	315	13	28
25-13M-*	Argon/CO2/Nitrogen/ Hydrogen/Helium/Air	315	13	28



Model No.	Gas	Max. Inlet Pressure (BAR)	Delivery Pressure (BAR)	Max. Working Pressure (BAR)
25-10M-OX	Oxygen	315	10	16
25-1.5M-AC	Acetylene	28	1.5	2
25-10M-*	Argon/CO2/Nitrogen/ Hydrogen/Helium/Air	315	10	16



SPECIFICATIONS FOR EURO TYPES :

Model No.	Gas	Max. Inlet Pressure (BAR)	Delivery Pressure (BAR)	Max. Working Pressure (BAR)
25-1.5M-AC	Acetylene	40	1.5	2.5
25-3.5M-LP	Propane	40	3.5	5
25-10M-OX	Oxygen	315	10	16
25-10M-*	Argon/CO2/Nitrogen/ Hydrogen/Helium/Air	315	10	16
25-15M-OX	Oxygen	315	15	25
25-15M-*	Argon/CO2/Nitrogen/ Hydrogen/Helium/Air	315	15	25

Conform with EN ISO 2503



EURO TYPE

*Always specify model number and gas when ordering.

**Inlet and outlet connection will be supplied to suit your requirement.



101 Series

HARRIS® Style

Single Stage with 2 Gauges

FEATURES :

- Single stage construction
- Forged brass body for maximum strength
- Chrome bonnet (brass bonnet optional)
- Neoprene diaphragms
- Oxygen regulator with safety relief valve is set for safe operation
- Sintered metal inlet filter to trap impurities
- No soldered joints, for easy maintenance
- Side entry (Vertical optional)

CAPACITY :

Medium Duty

NET WEIGHT :

1.2 kg / each

CERTIFICATIONS :

Conform with EN ISO 2503

SPECIFICATIONS FOR AMERICAN TYPES :

Model No.	Gas	Max Inlet Pressure (BAR)	Delivery Pressure (BAR)	Max. Working Pressure (BAR)
101-1.4M-AC	Acetylene	28	1.4	2
101-3.5M-LP	Propane	28	3.5	5
101-7M-OX	Oxygen	315	7	14
101-7M-*	Argon/CO2/Nitrogen/ Hydrogen/Helium/Air	315	7	14
101-13M-OX	Oxygen	315	13	28
101-13M-*	Argon/CO2/Nitrogen/ Hydrogen/Helium/Air	315	13	28
101-10M-OX	Oxygen	315	10	28
101-1.5M-AC	Acetylene	28	1.5	2
101-10M-*	Argon/CO2/Nitrogen/ Hydrogen/Helium/Air	315	10	16



Model No.	Gas	Max Inlet Pressure (BAR)	Delivery Pressure (BAR)	Max. Working Pressure (BAR)
101-1.4M-AC	Acetylene	28	1.4	2
101-3.5M-LP	Propane	28	3.5	5
101-10M-OX	Oxygen	315	10	28
101-10M-*	Argon/CO2/Nitrogen/ Hydrogen/Helium/Air	315	10	16



SPECIFICATIONS FOR EURO TYPE :

Model No.	Gas	Max Inlet Pressure (BAR)	Delivery Pressure (BAR)	Max. Working Pressure (BAR)
101-1.5M-AC	Acetylene	40	1.5	2.5
101-3.5M-LP	Propane	40	3.5	5
101-10M-OX	Oxygen	315	10	16
101-10M-AR	Argon	315	10	16
101-10M-CD	CO2	315	10	16
101-10M-N2	Nitrogen	315	10	16
101-10M-AIR	Air	315	10	16



EURO TYPE

*Always specify model number and gas when ordering.

**Inlet and outlet connection will be supplied to suit your requirement.



201 Series

HARRIS® Style

Single Stage with 2 Gauges

FEATURES :

- Single stage construction
- Forged brass body for maximum strength
- Chrome bonnet
- Neoprene diaphragms
- Oxygen regulator with safety relief valve is set for safe operation
- Sintered metal inlet filter to trap impurities
- No soldered joints, for easy maintenance
- Side entry (Vertical optional)

CAPACITY :

Medium Duty

NET WEIGHT :

1.4 kg / each

CERTIFICATIONS :

Conform with EN ISO 2503

SPECIFICATIONS FOR AMERICAN TYPES :

Model No.	Gas	Max. Inlet Pressure (BAR)	Delivery Pressure (BAR)	Max. Working Pressure (BAR)
201-1.4M-AC	Acetylene	28	1.4	2
201-3.5M-LP	Propane	28	3.5	5
201-7M-OX	Oxygen	315	7	14
201-7M-*	Argon/CO2/Nitrogen/ Hydrogen/Helium/Air	315	7	14
201-13M-OX	Oxygen	315	13	28
201-13M-*	Argon/CO2/Nitrogen/ Hydrogen/Helium/Air	315	13	28

SPECIFICATIONS FOR EURO TYPE :

Model No.	Gas Service	Max. Inlet Pressure (BAR)	Delivery Pressure (BAR)	Max. Working Pressure (BAR)
201-1.5M-AC	Acetylene	40	1.5	2.5
201-3.5M-LP	Propane	40	3.5	5
201-10M-OX	Oxygen	315	10	16
201-10M-*	Argon/CO2/Nitrogen/ Hydrogen/Helium/Air	315	10	16

*Always specify model number and gas when ordering.

**Inlet and outlet connection will be supplied to suit your requirement.

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EURO TYPE

314 Series

VICTOR® Style

Single Stage with 2 Gauges


FEATURES :

- Single stage construction
- Machined brass body & housing cap
- Neoprene diaphragms
- Oxygen regulator with built-in safety relief valve
- Sintered metal inlet filter to trap impurities
- No soldered joints, for easy maintenance
- Side entry

CAPACITY : Light Duty

NET WEIGHT : 1.2kg / each

CERTIFICATIONS :

UL listed and CUL listed 

SPECIFICATIONS :

Model No.	Gas	Max. Inlet Pressure (BAR)	Delivery Pressure (BAR)	Max. Working Pressure (BAR)
314-1.4M-AC	Acetylene	28	1.4	2
314-1.4M-LP	Propane	28	1.4	2
314-6M-OX	Oxygen	315	5.6	7
314-10M-OX	Oxygen	315	10	16

*Always specify model number and gas when ordering.

**Inlet and outlet connection will be supplied to suit your requirement.

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313 Series

VICTOR® Style

Single Stage with 2 Gauges

FEATURES :

- Single stage construction
- Machined brass body & housing cap
- Neoprene diaphragms
- Oxygen regulator with built-in safety relief valve
- Sintered metal inlet filter to trap impurities
- No soldered joints for easy maintenance
- Rear entry
- T Screw (Knob optional)

SPECIFICATIONS :

Model No.	Gas	Max. Inlet Pressure (BAR)	Delivery Pressure (BAR)	Max. Working Pressure (BAR)
313-1.4M-AC	Acetylene	28	1.4	2
313-1.4M-LP	Propane	28	1.4	2
313-6M-OX	Oxygen	315	5.6	7
313-10M-OX	Oxygen	315	10	16

*Always specify model number and gas when ordering.

**Inlet and outlet connection will be supplied to suit your requirement.

VICTOR is registered trademarks owned by VICTOR Equipment Company, a Thermadyne Company.

CAPACITY : Light Duty

NET WEIGHT : 1.2kg / each

CERTIFICATIONS :

UL listed and CUL listed



NEW

76 Series

YAMATO® Style

Single Stage with 2 Gauges

FEATURES :

- Single stage construction
- Forged brass body for maximum strength
- Aluminum bonnet
- Neoprene diaphragms
- Oxygen regulator with safety relief valve is set for safe operation
- Sintered metal inlet filter to trap impurities
- No soldered joints, for easy maintenance
- Side entry

SPECIFICATIONS :

Model No.	Gas	Max Inlet Pressure (BAR)	Delivery Pressure (BAR)	Max. Working Pressure (BAR)
76-1.4M-AC	Acetylene	25	1.4	3
76-3.5M-LP	Propane	25	3.5	5
76-10M-OX	Oxygen	250	10	25
76-10M-N2	Nitrogen	250	10	25
76-10M-HY	Hydrogen	250	10	25

* Always specify model number and gas when ordering.

** Inlet and outlet connection will be supplied to suit your requirement.

YAMATO is registered trademarks owned by YAMATO Sangyo co., Ltd..

CAPACITY : Medium Duty

NET WEIGHT : 1.2 kg / each





203 Series

VICTOR® Style

Single Stage with 2 Gauges

FEATURES :

- High pressure regulator
- Single stage construction
- Forged brass body & bonnet for maximum strength
- Piston type construction.
- External safety relief valve is set for all gases
- Sintered metal inlet filter to trap impurities
- No soldered joints, for easy maintenance
- Side entry

CAPACITY :

Extra Heavy Duty

NET WEIGHT :

1.5 kg / each

SPECIFICATIONS :

Model No.	Gas	Max. Inlet Pressure (BAR)	Delivery Pressure (BAR)	Max. Working Pressure (BAR)
203-30M-OX	Oxygen	315	30	50
203-30M-AR	Argon	315	30	50
203-30M-CD	CO2	315	30	50
203-30M-N2	Nitrogen	315	30	50
203-30M-HY	Hydrogen	315	30	50
203-30M-HE	Helium	315	30	50
203-30M-AIR	Air	315	30	50
203-50M-OX	Oxygen	315	50	70
203-50M-N2	Nitrogen	315	50	70



*Always specify model number and gas when ordering

VICTOR is registered trademarks owned by VICTOR Equipment Company, a Thermadyne Company.

YR-303 Series

YAMATO® Style

Single Stage with 2 Gauges

FEATURES :

- High Pressure Regulators
- Single stage construction
- Machined brass body & housing cap
- Piston type construction for high pressure resistant
- Recommend for high pressure applications, up to 3000 PSI
- Sintered metal inlet filter to trap impurities
- No soldered joints, for easy maintenance
- Side entry

CAPACITY : Extra Heavy Duty

NET WEIGHT : 3.0 kg / each



SPECIFICATIONS :

Model No.	Gas	Max. Inlet Pressure	Delivery Pressure	Max. Working Pressure
YR303-70M-OX	Oxygen	315 BAR / 4500 PSI	70 BAR / 1000 PSI	100 BAR / 1400 PSI
YR303-70M-*	Argon/Nitrogen/ Hydrogen/Helium/Air	315 BAR / 4500 PSI	70 BAR / 1000 PSI	100 BAR / 1400 PSI
YR303-100M-OX	Oxygen	315 BAR / 4500 PSI	100 BAR / 1400 PSI	150 BAR / 2100 PSI
YR303-100M-*	Argon/Nitrogen/ Hydrogen/Helium/Air	315 BAR / 4500 PSI	100 BAR / 1400 PSI	150 BAR / 2100 PSI
YR303-210M-OX	Oxygen	315 BAR / 4500 PSI	210 BAR / 3000 PSI	315 BAR / 4500 PSI
YR303-210M-*	Argon/Nitrogen/ Hydrogen/Helium/Air	315 BAR / 4500 PSI	210 BAR / 3000 PSI	315 BAR / 4500 PSI

* Always specify model number and gas when ordering.

** Inlet and outlet connection will be supplied to suit your requirement.

YAMATO is registered trademarks owned by YAMATO Sangyo co., Ltd..

VH-500 Series

VICTOR® Style

Single Stage with 2 Gauges

FEATURES :

- Single stage construction
- Forged brass body & bonnet for maximum strength
- Forged adjusting knob with stainless steel ball for easy pressure adjustment and abrasion resistant
- Stainless steel diaphragms
- Oxygen regulator with safety relief valve is set for safe operation
- Sintered metal inlet filter to trap impurities
- No soldered joints for easy maintenance
- Side entry

SPECIFICATIONS:

Model No.	Gas	Max. Inlet Pressure (BAR)	Delivery Pressure (BAR)	Max. Working Pressure (BAR)
VH500-1.4M-AC	Acetylene	28	1.4	2
VH500-3.5M-LP	Propane	28	3.5	5
VH500-7M-OX	Oxygen	315	7	14
VH500-7M-*	Argon/CO2/Nitrogen/ Hydrogen/Helium/Air	315	7	14
VH500-13M-OX	Oxygen	315	13	28
VH500-13M-*	Argon/CO2/Nitrogen/ Hydrogen/Helium/Air	315	13	28

*Always specify model number and gas when ordering

VICTOR is registered trademarks owned by VICTOR Equipment Company, a Thermadyne Company.

CAPACITY : Extra Heavy Duty

NET WEIGHT : 3.2kg / each



PRESSURE REGULATORS

WT-304 Series

WESTERN® Style

Single Stage with 2 Gauges

FEATURES :

- High Pressure Regulators
- Single stage construction
- Machined brass body & housing cap
- Piston type construction for high pressure resistant
- Recommend for high pressure applications, up to 3000 PSI
- Sintered metal inlet filter to trap impurities
- No soldered joints, for easy maintenance
- Side entry

CAPACITY : Extra Heavy Duty

NET WEIGHT : 2.0 kg / each



SPECIFICATIONS :

Model No.	Gas	Max. Inlet Pressure	Delivery Pressure	Max. Working Pressure
WT304-70M-OX	Oxygen	315 BAR / 4500 PSI	70 BAR / 1000 PSI	100 BAR / 1400 PSI
WT304-70M-*	Argon/Nitrogen/ Hydrogen/Helium/Air	315 BAR / 4500 PSI	70 BAR / 1000 PSI	100 BAR / 1400 PSI
WT304-100M-OX	Oxygen	315 BAR / 4500 PSI	100 BAR / 1400 PSI	150 BAR / 2100 PSI
WT304-100M-*	Argon/Nitrogen/ Hydrogen/Helium/Air	315 BAR / 4500 PSI	100 BAR / 1400 PSI	150 BAR / 2100 PSI
WT304-210M-OX	Oxygen	315 BAR / 4500 PSI	210 BAR / 3000 PSI	315 BAR / 4500 PSI
WT304-210M-*	Argon/Nitrogen/ Hydrogen/Helium/Air	315 BAR / 4500 PSI	210 BAR / 3000 PSI	315 BAR / 4500 PSI

*Always specify model number and gas when ordering.

**Inlet and outlet connection will be supplied to suit your requirement.

WESTERN is registered trademarks owned by WESTERN Enterprises.



96 Series

HARRIS® Style

Two-stage With 2 Gauges

FEATURES :

- Two-stage construction provides more constant delivery pressure
- First stage reduces cylinder pressure by approximately 90%
- Second stage accurately controls flow and delivery pressure
- Forged brass body for maximum strength
- Chrome bonnet and forged brass
- Neoprene diaphragms
- External safety relief valve is set for all gases
- Sintered metal inlet filter to trap impurities
- No soldered joints, for easy maintenance
- Side entry (Vertical optional)

CAPACITY :

Heavy Duty

NET WEIGHT :

2.0 kg / each

CERTIFICATIONS :

Conform with EN ISO 2503



SPECIFICATIONS FOR AMERICAN TYPES :

Model No.	Gas	Max. Inlet Pressure (BAR)	Delivery Pressure (BAR)	Max. Working Pressure (BAR)
96-1.4M-AC	Acetylene	28	1.4	2
96-3.5M-LP	Propane	28	3.5	5
96-7M-OX	Oxygen	315	7	14
96-7M-*	Argon/CO2/Nitrogen/ Hydrogen/Helium/Air	315	7	14
96-13M-OX	Oxygen	315	13	28
96-13M-*	Argon/CO2/Nitrogen/ Hydrogen/Helium/Air	315	13	28

SPECIFICATIONS FOR EURO TYPES :

Model No.	Gas	Max. Inlet Pressure (BAR)	Delivery Pressure (BAR)	Max. Working Pressure (BAR)
96-1.5M-AC	Acetylene	40	1.5	2.5
96-3.5M-LP	Propane	40	3.5	5
96-10M-OX	Oxygen	315	10	16
96-10M-*	Argon/CO2/Nitrogen/ Hydrogen/Helium/Air	315	10	16
96-15M-OX	Oxygen	315	15	25
96-15M-*	Argon/CO2/Nitrogen/ Hydrogen/Helium/Air	315	15	25

*Always specify model number and gas when ordering.

**Inlet and outlet connection will be supplied to suit your requirement.



EURO TYPE



56 Series

ZINSER® Style

Single Stage with 2 Gauges

FEATURES :

- Single stage construction
- Forged brass body & bonnet for maximum strength
- Neoprene diaphragms
- External safety relief valve is set for all gases
- Sintered metal inlet filter to trap impurities
- No soldered joints, for easy maintenance
- Side entry
- T screw (Knob adjustment optional)

SPECIFICATIONS :

Model No.	Gas	Max. Inlet Pressure	Delivery Pressure	Max. Working Pressure
56-1.5M-AC	Acetylene	40	1.5	2.5
56-1.5M-LP	Propane	40	1.5	2.5
56-3.5M-OX	Oxygen	315	3.5	5
56-10M-OX	Oxygen	315	10	16
56-10M-AR	Argon	315	10	16
56-10M-CD	CO ₂	315	10	16
56-10M-N ₂	Nitrogen	315	10	16
56-10M-HY	Hydrogen	315	10	16
56-10M-HE	Helium	315	10	16

*Always specify model number and gas when ordering.

**Inlet and outlet connection will be supplied to suit your requirement.

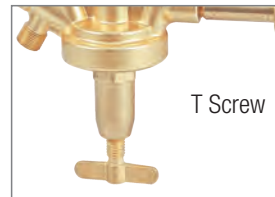
ZINSER is registered trademarks owned by Schweisstechnik GmbH & Co.

CAPACITY : Medium Duty

NET WEIGHT : 2.2 kg / each

CERTIFICATIONS :

Conform with EN ISO 2503



29 Series

HARRIS® Style

Single Stage

FEATURES :

- Gaugeless Regulators
- Single stage construction
- Forged brass body for maximum strength
- Chrome bonnet
- Neoprene diaphragms
- Oxygen regulator with safety relief valve is set for safe operation
- Sintered metal inlet filter to trap impurities
- No soldered joints, for easy maintenance
- Side entry (Vertical optional)
- Delivery pressure adjustment on regulator bonnet
- Color coded cylinder pressure indicator

SPECIFICATIONS :

Model No.	Gas	Max. Inlet Pressure (BAR)	Delivery Pressure (BAR)
29-1.5M-AC	Acetylene	40	1.5
29-3.5M-LP	Propane	40	3.5
29-10M-OX	Oxygen	315	10
29-10M-CD	CO ₂	315	10

* Always specify model number and gas when ordering.

** Inlet and outlet connection will be supplied to suit your requirement.

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CAPACITY : Medium Duty

NET WEIGHT : 1.5 kg / each

CERTIFICATIONS :

Conform with EN ISO 2503





49 Series

VICTOR® Style Single Stage with 1 Gauge

FEATURES :

- Station & Pipeline Regulators
- Single stage construction
- Forged brass body & bonnet for maximum strength
- Neoprene diaphragms
- Designed for American with gas distribution system for medium to heavy flow applications
- Oxygen regulator with safety relief valve is set for safe operation
- Sintered metal inlet filter to trap impurities
- No soldered joints, for easy maintenance
- Side entry
- DO NOT use on cylinder directly

SPECIFICATIONS :

Model No.	Gas	Delivery Pressure (BAR)	Max. Working Pressure (BAR)
49-1.5M-AC	Acetylene	1.5	2.5
49-1.5M-LP	Propane	1.5	2.5
49-3.5M-LP	Propane	3.5	5
49-10M-OX	Oxygen	10	16
49-10M-*	Argon/CO ₂ /Nitrogen/ Hydrogen/Helium/Air	10	16
49-15M-OX	Oxygen	15	25

* Always specify model number and gas when ordering.
 ** Inlet and outlet connection will be supplied to suit your requirement.

CAPACITY :

Heavy and Medium Duty

NET WEIGHT :

1.6kg / each

CERTIFICATIONS :

Conform with EN ISO 2503



48 Series

VICTOR® Style Single Stage with 1 Gauge

FEATURES :

- Station & Pipeline Regulators
- Single stage construction
- Forged brass body & bonnet for maximum strength
- Neoprene diaphragms
- Designed for American with gas distribution system for light to medium flow applications
- Oxygen regulator with safety relief valve is set for safe operation
- Sintered metal inlet filter to trap impurities
- No soldered joints, for easy maintenance
- Side entry
- DO NOT use on cylinder directly

SPECIFICATIONS :

Model No.	Gas	Delivery Pressure (BAR)	Max. Working Pressure (BAR)
48-1.5M-AC	Acetylene	1.5	2.5
48-1.5M-LP	Propane	1.5	2.5
48-3.5M-LP	Propane	3.5	5
48-10M-OX	Oxygen	10	16
48-10M-*	Argon/CO ₂ /Nitrogen/ Hydrogen/Helium/Air	10	16
48-15M-OX	Oxygen	15	25

* Always specify model number and gas when ordering.
 ** Inlet and outlet connection will be supplied to suit your requirement.

CAPACITY :

Medium Duty

NET WEIGHT :

1.5kg / each

CERTIFICATIONS :

Conform with EN ISO 2503





47 Series

HARRIS® Style

Single Stage with 1 Gauge

FEATURES :

- Pipeline Regulators
- Single stage construction
- Forged brass body for maximum strength
- Chrome bonnet
- Neoprene diaphragms
- Oxygen regulator with safety relief valve is set for safe operation
- Sintered metal inlet filter to trap impurities
- No soldered joints, for easy maintenance
- Rear entry with 1/4" NPT Female

SPECIFICATIONS FOR AMERICAN TYPES :

Model No.	Gas	Delivery Pressure (BAR)	Max. Working Pressure (BAR)
47-1.4M-AC	Acetylene	1.4	2
47-1.5M-LP	Propane	1.5	2
47-3.5M-LP	Propane	3.5	5
47-3.5M-OX	Oxygen	3.5	5
47-7M-OX	Oxygen	7	14
47-7M-*	Argon/CO2/Nitrogen/ Hydrogen/Helium/Air	7	14
47-13M-OX	Oxygen	13	28

* Always specify model number and gas when ordering.

** Inlet and outlet connection will be supplied to suit your requirement.

CAPACITY :

Heavy and Medium Duty

NET WEIGHT :

1.3 kg / each

CERTIFICATIONS :

Conform with EN ISO 2503



SPECIFICATIONS FOR EURO TYPES :

Model No.	Gas	Delivery Pressure (BAR)	Max. Working Pressure (BAR)
47-1.5M-AC	Acetylene	1.5	2.5
47-1.5M-LP	Propane	1.5	2.5
47-3.5M-LP	Propane	3.5	5
47-3.5M-OX	Oxygen	3.5	5
47-10M-OX	Oxygen	10	16
47-10M-*	Argon/CO2/Nitrogen/ Hydrogen/Helium/Air	10	16
47-15M-OX	Oxygen	15	25

114 Series

HARRIS® Style

Single Stage with 1 Gauge

FEATURES :

- Single stage construction
- Forged brass body for maximum strength
- Chrome bonnet
- Neoprene diaphragms
- Oxygen regulator with safety relief valve is set for safe operation
- Sintered metal inlet filter to trap impurities
- No soldered joints, for easy maintenance
- Side entry
- Identical to 101 series regulator but only one gauge for cylinder pressure
- Delivery pressure adjustment on regulator bonnet

SPECIFICATIONS :

Model No.	Gas	Max Inlet Pressure (BAR)	Delivery Pressure (BAR)	Max. Working Pressure (BAR)
114-1.4M-AC	Acetylene	40	1.4	2
114-3.5M-LP	Propane	40	3.5	5
114-7M-OX	Oxygen	315	7	14
114-7M-CD	CO ₂	315	7	14

* Always specify model number and gas when ordering.

** Inlet and outlet connection will be supplied to suit your requirement.

CAPACITY :

Medium Duty

NET WEIGHT :

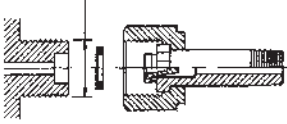
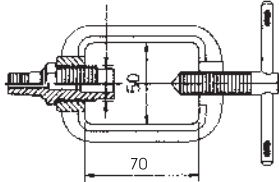
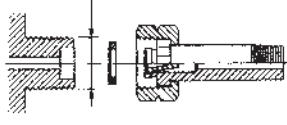
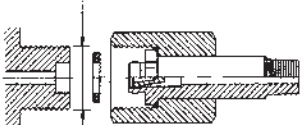
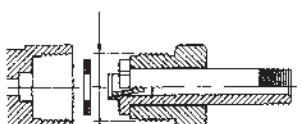
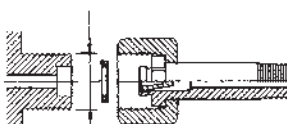
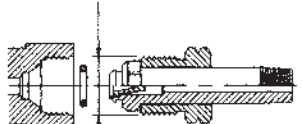
1.1 kg / each


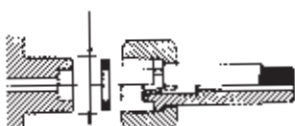
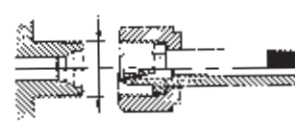


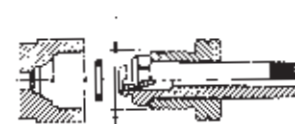
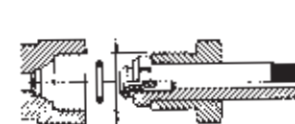
CERTIFICATIONS :

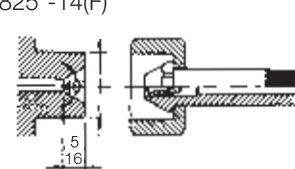
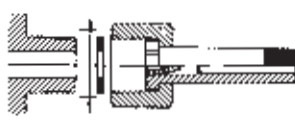
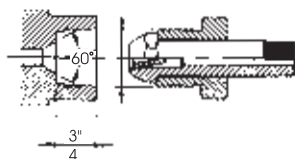
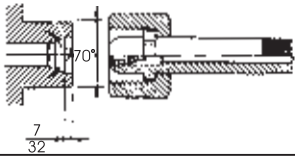
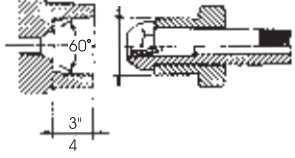
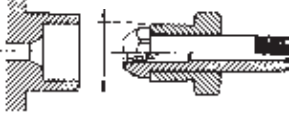
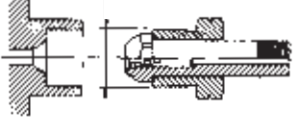
Conform with EN ISO 2503



CGA Compressed Gas Cylinder Valve Outlets & Connections

No	Dimensions
001	$\Phi 21.7-14\text{NGO-RH}$ 
002	M22-2.0PGO-RH 
003	$\Phi 20-14\text{NGO-LH}$ 
004	$\Phi 24.4-14\text{NGO-RH}$ 
005	$\Phi 26.3-14\text{NGO-RH}$ 
006	$\Phi 7/8"-14\text{NGO-RH}$ 
007	$\Phi 0.88"-14\text{NGO-LH}$ 

No	Dimensions
008	$\Phi 26.3-14\text{NGO-RH}$ 
009	$\Phi 0.86"-14\text{NGO-RH}$ 
010	$\Phi 21.7-14\text{NGO-RH}$ 
011	$\Phi 24.4-14\text{NGO-RH}$ 
012	$\Phi 21.7-14\text{NGO-LH}$ 
013	$\text{PF}5/8"-14\text{NGO-LH}$ 
014	$\text{PF}5/8"-14\text{NGO-RH}$ 

No	Dimensions
300	$.825"-14\text{NGO-RH(M)}$ $.825"-14(\text{F})$ 
320	$.825"-14\text{NGO-RH(M)}$ $.830"-14(\text{F})$ 
510	$.885"-14\text{NGO-LH(F)}$ $.880"-14(\text{M})$ 
540	$.903"-14\text{NGO-RH(M)}$ $.908"-14(\text{F})$ 
580	$.965"-14\text{NGO-RH(F)}$ $.960"-14(\text{M})$ 
992 (British Oxygen)	$.910"-14\text{NGO-RH(F)}$ $.898"-14(\text{M})$ 
993 (British Acetylene)	$.910"-14\text{NGO-LH(F)}$ $.898"-14(\text{M})$ 

These dimensional drawings illustrate cylinder valve outlets and connections:
 The drawing at the left illustrates the cylinder valve outlet.
 The one of right illustrates it's mating regulator or valve connection.



FLOW REGULATORS

IOXYGEN[®]





VM-FL Series

VICTOR[®] Style

Single stage | Flowmeter Regulators

FEATURES :

- MIG/TIG applications.
- Single stage construction
- Forged brass body & bonnet for maximum strength
- Neoprene diaphragms
- Sintered metal inlet filter to trap impurities
- Accurate gas flow regulator
- Safety relief valve is set for all gases
- No soldered joints, for easy maintenance
- Flowmeter with easy-to-read tube and transparent polycarbonate outer cover for impact resistant
- Side entry

SPECIFICATIONS :

Model No.	Gas	Flow Range	Max. Working Pressure
VM-15FL-AR	Argon	0-15 (Lt./min)	315 (BAR)
VM-15FL-CD	CO ₂	0-15 (Lt./min)	315 (BAR)
VM-25FL-AR	Argon	0-25 (Lt./min)	315 (BAR)
VM-25FL-CD	CO ₂	0-25 (Lt./min)	315 (BAR)
VM-60CF-AR	Argon	0-60 (SCFH)	315 (BAR)
VM-60CF-CD	CO ₂	0-60 (SCFH)	315 (BAR)

* Always specify model number and gas when ordering.

** Inlet and outlet connection will be supplied to suit your requirement.

CAPACITY :

Light To Medium Duty

NET WEIGHT :

1.8 kg / each

OUTLET PRESSURE :

3.5 Bar (Preset)

CERTIFICATIONS :

Conform with EN ISO 2503



450-FL Series

VICTOR[®] Style

Single stage | Flowmeter Regulators

FEATURES :

- MIG/TIG applications.
- Single stage construction
- Forged brass body & bonnet for maximum strength
- Neoprene diaphragms
- Sintered metal inlet filter to trap impurities
- Accurate gas flow regulator
- Safety relief valve is set for all gases
- No soldered joints, for easy maintenance
- Flowmeter with easy-to-read tube and transparent polycarbonate outer cover for impact resistant
- Side entry (Vertical optional)

SPECIFICATIONS :

Model No.	Gas	Flow Range	Max. Working Pressure
450-15FL-AR	Argon	0-15 (Lt./min)	315 (BAR)
450-15FL-CD	CO ₂	0-15 (Lt./min)	315 (BAR)
450-25FL-AR	Argon	0-25 (Lt./min)	315 (BAR)
450-25FL-CD	CO ₂	0-25 (Lt./min)	315 (BAR)
450-60CF-AR	Argon	0-60 (SCFH)	315 (BAR)
450-60CF-CD	CO ₂	0-60 (SCFH)	315 (BAR)

* Always specify model number and gas when ordering.

** Inlet and outlet connection will be supplied to suit your requirement.

CAPACITY :

Medium Duty

NET WEIGHT :

2.4kg / each

OUTLET PRESSURE :

3.5 Bar (Preset)

CERTIFICATIONS :

Conform with EN ISO 2503



25-FL Series

HARRIS® Style

Single stage | Flowmeter Regulators

FEATURES :

- MIG/TIG applications.
- Single stage construction
- Forged brass body for maximum strength
- Chrome bonnet
- Neoprene diaphragms
- Sintered metal inlet filter to trap impurities
- Accurate gas flow regulator
- Safety relief valve is set for all gases
- No soldered joints, for easy maintenance
- Flowmeter with easy-to-read tube and transparent polycarbonate outer cover for impact resistant
- Side entry (Vertical optional)

SPECIFICATIONS :

Model No.	Gas	Flow Range	Max. Working Pressure
25-15FL-*	ARGON/ CO2/ Nitrogen/ Hydrogen	0-15 (Lt./min)	315 (BAR)
25-25FL-*		0-25 (Lt./min)	315 (BAR)
25-60CF-*		0-60 (SCFH)	315 (BAR)

* Always specify model number and gas when ordering.

** Inlet and outlet connection will be supplied to suit your requirement.

CAPACITY :

Medium Duty

NET WEIGHT :

2.2 kg / each

OUTLET PRESSURE :

3.5 Bar (Preset)

CERTIFICATIONS :

Conform with EN ISO 2503



101-FL Series

HARRIS® Style

Single stage | Flowmeter Regulators

FEATURES :

- MIG/TIG applications.
- Single stage construction
- Forged brass body for maximum strength
- Chrome bonnet
- Neoprene diaphragms
- Sintered metal inlet filter to trap impurities
- Accurate gas flow regulator
- Safety relief valve is set for all gases
- No soldered joints, for easy maintenance
- Flowmeter with easy-to-read tube and transparent polycarbonate outer cover for impact resistant
- Side entry (Vertical optional)

SPECIFICATIONS :

Model No.	Gas	Flow Range	Max. Working Pressure
101-15FL-AR	Argon	0-15 (Lt./min)	315 (BAR)
101-15FL-CD	CO ₂	0-15 (Lt./min)	315 (BAR)
101-25FL-AR	Argon	0-25 (Lt./min)	315 (BAR)
101-25FL-CD	CO ₂	0-25 (Lt./min)	315 (BAR)
101-60FL-AR	Argon	0-60 (SCFH)	315 (BAR)
101-60FL-CD	CO ₂	0-60 (SCFH)	315 (BAR)

* Always specify model number and gas when ordering.

** Inlet and outlet connection will be supplied to suit your requirement.

CAPACITY :

Medium Duty

NET WEIGHT :

1.5kg / each

OUTLET PRESSURE :

3.5 Bar (Preset)

CERTIFICATIONS :

Conform with EN ISO 2503





100-FL Series

VICTOR[®] Style Single stage | Flowmeter Regulators

FEATURES :

- MIG/TIG applications.
- Single stage construction
- Machined brass body
- Piston design
- Sintered metal inlet filter to trap impurities
- Accurate gas flow regulator
- Safety relief valve is set for all gases
- No soldered joints, for easy maintenance
- Combination of regulator and flowmeter in one unit
- Side entry
- Economy style
- Optional kit available with 10 feet (3m) hose in clamshell packaging

SPECIFICATIONS :

Model No.	Gas	Flow Range	Max. Working Pressure	10 Feet Hose
100-25FL-AR	Argon/Helium	0-25 (Lt./min)	315 (BAR)	W/O
100-25FL-CD	CO ₂	0-25 (Lt./min)	315 (BAR)	W/O
100-60CF-AR	Argon/Helium	0-60 (SCFH)	315 (BAR)	W/O
100-60CF-CD	CO ₂	0-60 (SCFH)	315 (BAR)	W/O
100A-60CF-AR	Argon/Helium	0-60 (SCFH)	315 (BAR)	Included
100A-60CF-CD	CO ₂	0-60 (SCFH)	315 (BAR)	Included

* Always specify model number and gas when ordering.
** Inlet and outlet connection will be supplied to suit your requirement.

CAPACITY :

Light To Medium Duty

NET WEIGHT :

1 kg / each

OUTLET PRESSURE :

3.5 Bar (Preset)

CERTIFICATIONS :

UL listed and CUL listed



200-FL Series

VICTOR[®] Style Single stage | Flowmeter Regulators

FEATURES :

- MIG/TIG applications.
- Single stage construction
- Machined brass body
- Neoprene diaphragms
- Sintered metal inlet filter to trap impurities
- Accurate gas flow regulator
- Safety relief valve is set for all gases
- No soldered joints, for easy maintenance
- Combination of regulator and flowmeter in one unit
- Side entry
- Economy style
- Option kit available with 10 feet (3m) hose in clamshell packaging

SPECIFICATIONS :

Model No.	Gas	Flow Range	Max. Working Pressure	10 Feet Hose
200-25FL-AR	Argon	0-25 (Lt./min)	315 (BAR)	W/O
200-25FL-CD	CO ₂	0-25 (Lt./min)	315 (BAR)	W/O
200-60CF-AR	Argon	0-60 (SCFH)	315 (BAR)	W/O
200-60CF-CD	CO ₂	0-60 (SCFH)	315 (BAR)	W/O
200A-60CF-AR	Argon	0-60 (SCFH)	315 (BAR)	Included
200A-60CF-CD	CO ₂	0-60 (SCFH)	315 (BAR)	Included

* Always specify model number and gas when ordering.
** Inlet and outlet connection will be supplied to suit your requirement.

CAPACITY :

Medium Duty

NET WEIGHT :

1.1kg / each

OUTLET PRESSURE :

3.5 Bar (Preset)

CERTIFICATIONS :

Conform with EN ISO 2503



FR-110 Series

CROWN® Style

Single stage | Flowmeter Regulators

FEATURES :

- MIG/TIG applications.
- Single stage construction
- Machined brass body
- Fully chromed
- Neoprene diaphragms
- Sintered metal inlet filter to trap impurities
- Accurate gas flow regulator
- Safety relief valve is set for all gases
- No soldered joints, for easy maintenance
- Side entry
- Economy style

SPECIFICATIONS :

Model No.	Gas	Flow Range	Max. Working Pressure
FR110-15FL-AR	Argon	0-15 (Lt./min)	315 (BAR)
FR110-15FL-CD	CO ₂	0-15 (Lt./min)	315 (BAR)
FR110-25FL-AR	Argon	0-25 (Lt./min)	315 (BAR)
FR110-25FL-CD	CO ₂	0-25 (Lt./min)	315 (BAR)
FR110-60CF-AR	Argon	0-60 (SCFH)	315 (BAR)
FR110-60CF-CD	CO ₂	0-60 (SCFH)	315 (BAR)

* Always specify model number and gas when ordering.

** Inlet and outlet connection will be supplied to suit your requirement.

Crown is registered trademarks owned by Yutaka Engineering Company.

CAPACITY :

Light To Medium Duty

NET WEIGHT :

1.2 kg / each

OUTLET PRESSURE :

3.5 Bar (Preset)

CERTIFICATIONS :

Conform with EN ISO 2503



101-2FL & 25-2FL Series

HARRIS® Style

Single stage | Dual Flowmeter Regulators

FEATURES :

- MIG/TIG applications.
- Single stage construction
- Dual flowmeter design
- Forged brass body for maximum strength
- Chrome bonnet
- Neoprene diaphragms
- Sintered metal inlet filter to trap impurities
- Accurate gas flow regulator
- Safety relief valve is set for all gases
- Flowmeter with easy-to-read tube and transparent polycarbonate outer cover for impact resistant
- No soldered joints, for easy maintenance
- Side entry

SPECIFICATIONS :

Model No.	Gas	Flow Range	Max. Working Pressure
101-2FL-*	Argon / CO ₂	0-25 (Lt./min)	315 (BAR)
		0-60 (SCFH)	315 (BAR)
25-2FL-*	Argon / CO ₂	0-25 (Lt./min)	315 (BAR)
		0-60 (SCFH)	315 (BAR)

* Always specify model number and gas when ordering.

** Inlet and outlet connection will be supplied to suit your requirement.

HARRIS is registered trademarks owned by HARRIS Calorific, Inc, a Lincoln Electric Company.

CAPACITY :

Light To Medium Duty

NET WEIGHT :

1.9 kg / each for 101-2FL

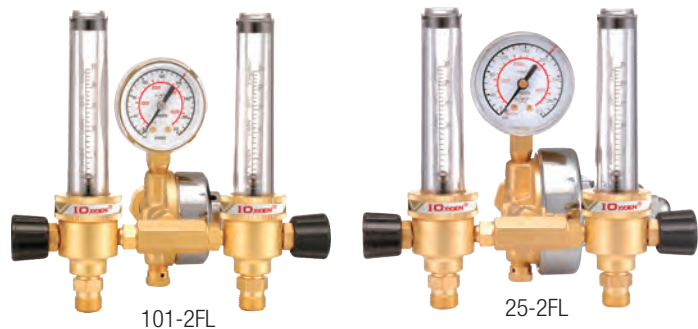
2.3 kg / each for 25-2FL

OUTLET PRESSURE :

3.5 Bar (Preset)

CERTIFICATIONS :

Conform with EN ISO 2503





25-LM Series

HARRIS® Style

Single stage | Flowgauge Regulators

FEATURES :

- MIG/TIG applications
- Single stage construction
- Forged brass body for maximum strength
- Chrome bonnet
- Neoprene diaphragms
- Sintered metal inlet filter to trap impurities
- Accurate gas flow regulator
- Safety relief valve is set for all gases
- No soldered joints, for easy maintenance
- Side entry (Vertical optional)

SPECIFICATIONS :

Model No.	Gas	Flow Range	Max. Working Pressure
25-30LM-AR	ARGON	0-30 (Lt./min)	315 (BAR)
25-30LM-CD	CO ₂	0-30 (Lt./min)	315 (BAR)
25-50LM-AR	ARGON	0-50 (Lt./min)	315 (BAR)
25-50LM-CD	CO ₂	0-50 (Lt./min)	315 (BAR)
25-30CF-AR	ARGON	0-30 (SCFH)	315 (BAR)
25-30CF-CD	CO ₂	0-30 (SCFH)	315 (BAR)
25-50CF-AR	ARGON	0-50 (SCFH)	315 (BAR)
25-50CF-CD	CO ₂	0-50 (SCFH)	315 (BAR)

* Always specify model number and gas when ordering.
 ** Inlet and outlet connection will be supplied to suit your requirement.

CAPACITY :

Light To Medium Duty

NET WEIGHT :

1.7kg / each

CERTIFICATIONS :

Conform with EN ISO 2503



201-LM Series

HARRIS® Style

Single stage | Flowgauge Regulators

FEATURES :

- MIG/TIG applications
- Single stage construction
- Forged brass body for maximum strength
- Chrome bonnet
- Neoprene diaphragms
- Sintered metal inlet filter to trap impurities
- Accurate gas flow regulator
- Safety relief valve is set for all gases
- No soldered joints, for easy maintenance
- Side entry (Vertical optional)

SPECIFICATIONS :

Model No.	Gas	Flow Range	Max. Working Pressure
201-30LM-AR	ARGON	0-30 (Lt./min)	315 (BAR)
201-30LM-CD	CO ₂	0-30 (Lt./min)	315 (BAR)
201-50LM-AR	ARGON	0-50 (Lt./min)	315 (BAR)
201-50LM-CD	CO ₂	0-50 (Lt./min)	315 (BAR)
201-30CF-AR	ARGON	0-30 (SCFH)	315 (BAR)
201-30CF-CD	CO ₂	0-30 (SCFH)	315 (BAR)
201-50CF-AR	ARGON	0-50 (SCFH)	315 (BAR)
201-50CF-CD	CO ₂	0-50 (SCFH)	315 (BAR)

* Always specify model number and gas when ordering.
 ** Inlet and outlet connection will be supplied to suit your requirement.

CAPACITY :

Light To Medium Duty

NET WEIGHT :

1.4kg / each

CERTIFICATIONS :

Conform with EN ISO 2503



101-LM Series

HARRIS® Style

Single stage | Flowgauge Regulators

FEATURES :

- MIG/TIG applications.
- Single stage construction
- Forged brass body for maximum strength
- Chrome bonnet
- Neoprene diaphragms
- Sintered metal inlet filter to trap impurities
- Accurate gas flow regulator
- Safety relief valve is set for all gases
- No soldered joints, for easy maintenance
- Side entry (Vertical optional)

SPECIFICATIONS :

Model No.	Gas	Flow Range	Max. Working Pressure
101-60CF-AR	ARGON	0-60 (SCFH)	315 (BAR)
101-60CF-CD	CO ₂	0-60 (SCFH)	315 (BAR)

Model	Gas	Flow Range	Max. Working Pressure
101-30LM-AR	ARGON	0-30 (Lt./min)	315 (BAR)
101-30LM-CD	CO ₂	0-30 (Lt./min)	315 (BAR)
101-50LM-AR	ARGON	0-50 (Lt./min)	315 (BAR)
101-50LM-CD	CO ₂	0-50 (Lt./min)	315 (BAR)
101-30CF-AR	ARGON	0-30 (SCFH)	315 (BAR)
101-30CF-CD	CO ₂	0-30 (SCFH)	315 (BAR)
101-50CF-AR	ARGON	0-50 (SCFH)	315 (BAR)
101-50CF-CD	CO ₂	0-50 (SCFH)	315 (BAR)

* Always specify model number and gas when ordering.

** Inlet and outlet connection will be supplied to suit your requirement.

CAPACITY :

Light To Medium Duty

NET WEIGHT :

1.2 kg / each

CERTIFICATIONS :

UL listed and CUL listed



Conform with EN ISO 2503



114-LM Series

HARRIS® Style

Single stage | Flowgauge Regulators

FEATURES :

- MIG/TIG applications
- Single stage construction
- Forged brass body for maximum strength
- Chrome bonnet
- Neoprene diaphragms
- Sintered metal inlet filter to trap impurities
- Accurate gas flow regulator
- Safety relief valve is set for all gases
- No soldered joints, for easy maintenance
- Side entry (Vertical optional)

SPECIFICATIONS :

Model	Gas	Flow Range	Max. Working Pressure
114-15LM-AR	ARGON	15 (Lt./min)	315 (BAR)
114-15LM-CD	CO ₂	15 (Lt./min)	315 (BAR)
114-30LM-AR	ARGON	30 (Lt./min)	315 (BAR)
114-30LM-CD	CO ₂	30 (Lt./min)	315 (BAR)
114-50LM-AR	ARGON	50 (Lt./min)	315 (BAR)
114-50LM-CD	CO ₂	50 (Lt./min)	315 (BAR)

* Always specify model number and gas when ordering.

** Inlet and outlet connection will be supplied to suit your requirement.

CAPACITY :

Light To Medium Duty

NET WEIGHT :

1.1 kg / each

CERTIFICATIONS :

Conform with EN ISO 2503





314RH Series

VICTOR® Style

Single stage | Flowgauge Regulators

FEATURES :

- MIG/TIG applications
- Single stage construction
- Machined brass body & housing cap
- Neoprene diaphragms
- Sintered metal inlet filter to trap impurities
- Accurate gas flow regulator
- Built-in safety relief valve is set for all gases
- No soldered joints, for easy maintenance
- Side entry
- T Screw (Knob optional)
- Optional kit available with 10 feet (3m) hose in clamshell packaging

CAPACITY :

Light Duty

NET WEIGHT :

1.3 kg / each

CERTIFICATIONS :

UL listed and CUL listed



SPECIFICATIONS :

Model No.	Gas	Flow	Max. Working Pressure	10 Feet Hose
314-30CF-*	ARGON / CO ₂	0-30 (SCFH)	315 (BAR)	W/O
314-30LM-*		0-30 (Lt./min)	315 (BAR)	
314-60CF-*		0-60 (SCFH)	315 (BAR)	
314A-30CF-*		0-30 (SCFH)	315 (BAR)	Include
314A-30LM-*		0-30 (Lt./min)	315 (BAR)	
314A-60CF-*		0-60 (SCFH)	315 (BAR)	

* Always specify model number and gas when ordering.
VICTOR is registered trademarks owned by VICTOR Equipment Company, a Thermadyne Company.



800 Series

Single stage | Flowmeters

FEATURES :

- Accurately measures flow from 0 to 15 LPM or 0 to 25 LPM.
- Flowmeter with easy-to-read tube and transparent polycarbonate outer cover for impact resistant
- Chrome or brass body
- Stainless steel needle valve for precise flow control
- Calibrated at 50 PSI inlet pressure

SPECIFICATIONS :

Model No.	Gas	Max. Calibrated Flow	Threads (Inlet)	Threads (Outlet)
800-AR25-A	ARGON	0-25 (Lt./min)	Male 1/4" NPT	Male 9/16" UNF
800-AR25-B	ARGON	0-25 (Lt./min)	Female G3/8"	Male G3/8
800-AR25-C	ARGON	0-25 (Lt./min)	Female 5/8" UNF	Male 5/8" UNF
800-AR25-D	ARGON	0-25 (Lt./min)	Male 1/4" NPT	Male M16
800-AR25-E	ARGON	0-25 (Lt./min)	Male 1/4" NPT	Male G3/8
800-AR25-F	ARGON	0-25 (Lt./min)	Male 1/4" NPT	Male G1/4
800-CD25-A	CO ₂	0-25 (Lt./min)	Male 1/4" NPT	Male 9/16" UNF
800-CD25-B	CO ₂	0-25 (Lt./min)	Female G3/8"	Male G3/8
800-CD25-C	CO ₂	0-25 (Lt./min)	Female 5/8" UNF	Male 5/8" UNF
800-CD25-D	CO ₂	0-25 (Lt./min)	Male 1/4" NPT	Male M16
800-CD25-E	CO ₂	0-25 (Lt./min)	Male 1/4" NPT	Male G3/8
800-CD25-F	CO ₂	0-25 (Lt./min)	Male 1/4" NPT	Male G1/4
800-AR15-A	ARGON	0-15 (Lt./min)	Male 1/4" NPT	Male 9/16" UNF
800-AR15-B	ARGON	0-15 (Lt./min)	Male 1/4" NPT	Male G3/8
800-AR15-C	ARGON	0-15 (Lt./min)	Male 1/4" NPT	Male 5/8" UNF
800-AR15-D	ARGON	0-15 (Lt./min)	Male 1/4" NPT	Male M16
800-AR15-E	ARGON	0-15 (Lt./min)	Male 1/4" NPT	Male G1/4
800-CD15-A	CO ₂	0-15 (Lt./min)	Male 1/4" NPT	Male 9/16" UNF
800-CD15-B	CO ₂	0-15 (Lt./min)	Male 1/4" NPT	Male G3/8
800-CD15-C	CO ₂	0-15 (Lt./min)	Male 1/4" NPT	Male 5/8" UNF
800-CD15-D	CO ₂	0-15 (Lt./min)	Male 1/4" NPT	Male M16
800-CD15-E	CO ₂	0-15 (Lt./min)	Male 1/4" NPT	Male G1/4
800-AR60	ARGON	0-60 (SCFH)	Male 1/4" NPT	Male 9/16" UNF
800-CD60	CO ₂	0-60 (SCFH)	Male 1/4" NPT	Male 9/16" UNF
800-AR60-A	ARGON	0-60 (SCFH)	Male 1/4" NPT	Male 5/8"-18RH
800-CD60-B	ARGON	0-60 (SCFH)	Male 1/4" NPT	Male 5/8"-18RH





CUTTING TORCHES





62-3/62-3F

HARRIS[®] Style Hand Cutting Torch

FEATURES :

- Triangular stainless steel gas tubes for maximum strength
- Two stainless steel needle valves for precise flame adjustment and better durability
- Head mixing for highest operator safety
- Built-in safety plug in torch head
- Stable flame preheating during cutting
- Simple structure for easy maintenance
- 90° Head (70° & 180° are available)

SPECIFICATIONS :

OXY-ACETYLENE			OXY-PROPANE			Length (mm)	Tip
90° HEAD	70° HEAD	180° HEAD	90° HEAD	70° HEAD	180° HEAD		
62-3	62-3A	62-3B	62-3F	62-3AF	62-3BF	460	6290 / 6290-NX
62-3L	62-3AL	62-3BL	62-3FL	62-3AFL	62-3BFL	530	
62-3L(835)	62-3AL(835)	62-3BL(835)	62-3FL (835)	62-3AFL (835)	62-3BFL (835)	835	
62-3L(1000)	62-3AL(1000)	62-3BL(1000)	62-3FL (1000)	62-3AFL (1000)	62-3BFL (1000)	1000	
62-3L(1250)	62-3AL(1250)	62-3BL(1250)	62-3FL(1250)	62-3AFL (1250)	62-3BFL (1250)	1250	
62-3L(1500)	62-3AL(1500)	62-3BL(1500)	62-3FL (1500)	62-3AFL (1500)	62-3BFL (1500)	1500	
62-3L(1800)	62-3AL(1800)	62-3BL(1800)	62-3FL (1800)	62-3AFL (1800)	62-3BFL (1800)	1800	



CAPACITY :

Heavy Duty
Cuts up to 12"(300 mm)

INLET CONNECTION :

9/16"-18N (other sizes thread are available)

CERTIFICATIONS :

UL Listed



HEAD ANGLES :



42-4/42-4F

HARRIS[®] Style Hand Cutting Torch

FEATURES :

- Triangular stainless steel gas tubes for maximum strength
- Two stainless steel needle valves for precise flame adjustment and better durability
- Tough extruded brass torch handle for long life
- Head mixing for highest operator safety
- Built-in safety plug in torch head
- Simple structure for easy maintenance
- 90° Head (70° is available)

SPECIFICATIONS :

OXY-ACETYLENE		OXY-PROPANE		Length (mm)	Tip
90° HEAD	70° HEAD	90° HEAD	70° HEAD		
42-4	42-4A	42-4F	42-4AF	430	6290 / 6290-NX
42-4L	42-4AL	42-4FL	42-4AFL	530	
42-4L (835)	42-4AL (835)	42-4FL (835)	42-4AFL (835)	835	
42-4L (1000)	42-4AL (1000)	42-4FL (1000)	42-4AFL (1000)	1000	
42-4L (1200)	42-4AL (1200)	42-4FL (1200)	42-4AFL (1200)	1200	



CAPACITY :

Medium Duty
Cuts up to 8"(200 mm)

INLET CONNECTION :

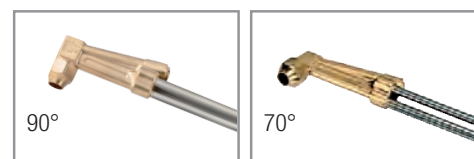
9/16"-18N (other sizes thread are available)

CERTIFICATIONS :

UL Listed



HEAD ANGLES :





NM-250

HARRIS[®] Style Hand Cutting Torch



FEATURES :

- Top stainless steel lever w/ hold down button
- Triangular stainless steel gas tubes for maximum strength
- Stainless steel tube provides greater heat
- Two stainless steel needle valves for precise flame adjustment and better durability
- Tip mixing for highest operator safety
- Simple structure for easy maintenance

CAPACITY :

Medium Duty
Cuts up to 10"(250 mm)

INLET CONNECTION :

G 3/8 (other sizes thread are available)

CERTIFICATIONS :

Conform with EN ISO 5172

SPECIFICATIONS :

MODELS	HEAD	Length(mm)	Tip
NM-250A	90°	480	ANME / PNME
NM-250B	90°	600	

MODELS	HEAD	Length(mm)	Tip
NM-250C	90°	800	ANME / PNME
NM-250D	90°	1000	

HARRIS is registered trademarks owned by HARRIS Calorific, Inc, a Lincoln Electric company.

142/142F

HARRIS[®] Style Hand Cutting Torch



FEATURES :

- Top stainless steel lever w/ hold down button
- Two stainless steel needle valves for precise flame adjustment and better durability
- Triangular stainless steel gas tubes for maximum strength
- Head mixing for highest operator safety
- Built-in safety plug in torch head
- 90° Head (70° is available)

CAPACITY :

Medium Duty
Cutting up to 8"(200 mm)

INLET CONNECTION :

9/16"-18N (other sizes thread are available)

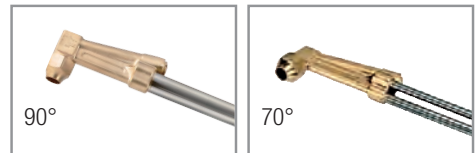
CERTIFICATIONS :

Conform with EN ISO 5172

HEAD ANGLES :

SPECIFICATIONS :

OXY-ACETYLENE		OXY-PROPANE		Length (mm)	Tip
90° HEAD	70° HEAD	90° HEAD	70° HEAD		
142	142-A	142-F	142-AFL	440	6290 / 6290-NX
142-L (530)	142-AL (530)	142-FL(530)	142-AFL(530)	530	
142-L (835)	142-AL (835)	142-FL(835)	142-AFL(835)	835	
142-L (1000)	142-AL (1000)	142-FL(1000)	142-AFL(1000)	1000	



HARRIS is registered trademarks owned by HARRIS Calorific, Inc, a Lincoln Electric company.

1600

VICTOR[®] Style Hand Cutting Torch



FEATURES :

- Forged brass and body for added strength and durability
- Gas mixing chamber combines spiral and injector principles for reducing the chance of flashback
- Two stainless steel needle valves for precise flame adjustment and better durability
- Threaded body and valve for easy replacement
- 90° Head (75° is available)

CAPACITY :

Heavy Duty
Cuts up to 12"(300 mm)

INLET CONNECTION :

9/16"-18N (other sizes thread are available)

CERTIFICATIONS :

UL Listed



SPECIFICATIONS :

MODEL	HEAD	Length (mm)	Compatible Head	TIPS
1600A	90°	560	VICTOR	GPN / 1-101
1600AB	90°	1000	VICTOR	GPN / 1-101
1600AC	90°	1200	VICTOR	GPN / 1-101
1600AD	90°	1300	VICTOR	GPN / 1-101

MODELS	HEAD	Length (mm)	Compatible Head	TIPS
1600B	90°	560	CIGWELD	TYPE 44 / 41
1600E	75°	560	CIGWELD	TYPE 44 / 41

VICTOR is registered trademarks owned by VICTOR Equipment Company, a Thermadyne Company.



1601

BRITISH Style Hand Cutting Torch

FEATURES :

- Top stainless steel lever w/ hold down button
- Two stainless steel needle valves for precise flame adjustment and better durability
- Brass or Aluminum handle
- Tip mixing for highest operator safety
- 90° Head (75° & 180° are available)



Capacity:

Heavy Duty
Cuts up to 12"(300 mm)

INLET CONNECTION :

G 3/8 (other sizes thread are available)

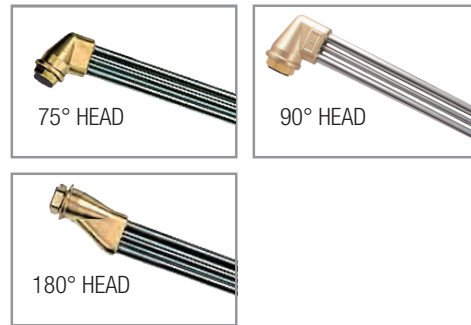
CERTIFICATIONS :

Conform with EN ISO 5172

SPECIFICATIONS :

OXY-ACETYLENE/PROPANE			Length (mm)	Tip
90° HEAD	75° HEAD	180° HEAD		
1601A	1601B	1601C	500	ANME / PNME
1601AL	1601BL	1601CL	600	
1601ALA	1601BLA	1601CLA	700	
1601ALB	1601BLB	1601CLB	800	
1601ALC	1601BLC	1601CLC	900	
1601ALD	1601BLD	1601CLD	1000	
1601ALE	1601BLE	1601CLE	1100	
1601ALF	1601BLF	1601CLF	1800	

HEAD ANGLES :



1602

BRITISH Style Hand Cutting Torch

FEATURES :

- Stainless steel tube provides greater heat
- Two stainless steel needle valves for precise flame adjustment and better durability
- Forged brass head for added strength and durability
- Top stainless steel lever for easy job
- 90° Head (75° & 180° are available)



CAPACITY :

Heavy Duty
Cuts up to 12"(300 mm)

INLET CONNECTION :

G 3/8 (other sizes thread are available)

CERTIFICATIONS :

Conform with EN ISO 5172

SPECIFICATIONS :

MODELS	HEAD	Length(mm)	Tip
1602	90°	480	ANME / PNME
1602A	90°	600	

MODELS	HEAD	Length(mm)	Tip
1602B	90°	800	ANME / PNME
1602C	90°	1000	

1606

FRENCH Style Hand Cutting Torch

FEATURES :

- Stainless steel tube provides greater heat
- Two stainless steel needle valves for precise flame adjustment and better durability
- Forged brass bigger head for added strength and durability
- Top stainless steel lever for easy job
- Simple structure for easy maintenance



CAPACITY :

Heavy Duty
Cuts up to 12"(300 mm)

INLET CONNECTION :

G 3/8 (other sizes thread are available)

CERTIFICATIONS :

Conform with EN ISO 5172

SPECIFICATIONS :

MODELS	HEAD	Length(mm)	Tip
1606	90°	480	G1-P / G1-A
1606A	90°	600	



1607 SAF[®] Style Hand Cutting Torch

FEATURES :

- Two stainless steel needle valves for precise flame adjustment and better durability
- Inserted lever and push button ensure operator comfort even after hours of continuous cutting
- Forged brass head and body for added strength and durability
- Strong brass barrel to protect internal tubes

SPECIFICATIONS :

MODELS	HEAD	Length(mm)	Tip
1607	94°	500	G1-P / G1-A

SAF is registered trademarks owned by Air Liquide Group.



Capacity:

Heavy Duty
Cuts up to 12"(300 mm)

INLET CONNECTION :

G 3/8 (other sizes thread are available)

CERTIFICATIONS :

Conform with EN ISO 5172

AG-511 AGA[®] Style Hand Cutting Torch

FEATURES :

- Top stainless steel lever w/hold down button
- Two brass needle valves for precise flame adjustment and better durability
- It can be fitted with gouging tips for grooving and rivet cutting
- Tip mixing for highest operator safety
- 75° Head (90° is available)

SPECIFICATIONS :

MODELS	HEAD	Length(mm)	Tip
AG-511	75°	510	ANME / PNME
AG-511L(855)	75°	855	
AG-511L(1155)	75°	1155	

AGA is registered trademark of The Control Equipment AB.



Capacity :

Heavy Duty
Cuts up to 20"(500 mm)

INLET CONNECTION :

G 3/8 (other sizes thread are available)

CERTIFICATIONS :

Conform with EN ISO 5172

MODELS	HEAD	Length(mm)	Tip
AG-511A	90°	510	ANME / PNME
AG-511A(855)	90°	855	
AG-511A(1155)	90°	1155	

42-8 / 42-9 CHIYODA[®] Style Hand Cutting Torch

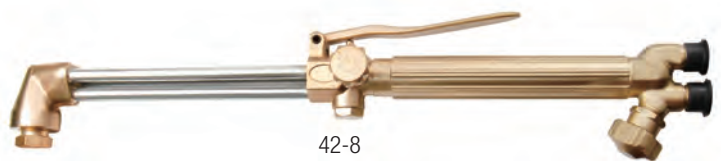
FEATURES :

- Triangular stainless steel gas tubes for maximum strength
- Two stainless steel needle valves for precise flame adjustment and better durability
- Tip mixing for highest operator safety
- Simple structure for easy maintenance
- Adjust high pressure oxygen by using the lever instead of knob
- The appearance of 42-9 is electroplating

SPECIFICATIONS :

MODELS	HEAD	Length(mm)	Tip	handle
42-8	90°	420	ST8-A / ST8-P	Brass
42-9	90°	420	ST8-A / ST8-P	Zinc

CHIYODA is registered trademarks owned by CHIYODA Seiki Co., Ltd.



42-8

NEW



42-9

CAPACITY :

Light Duty
Cuts up to 80 mm

INLET CONNECTION :

9/16"-18N (other sizes thread are available)

CERTIFICATIONS :

Conform with EN ISO 5172

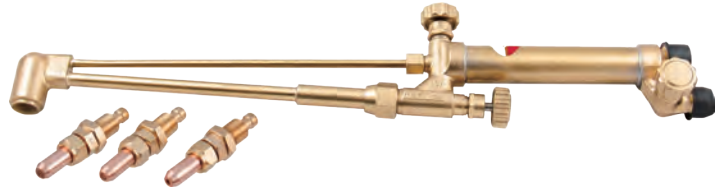


CMS-7505

“M” Type Cutting Torch Kit

FEATURES :

- Three stainless steel needle valves for precise flame adjustment and better durability
- Forged brass head and body for added strength and durability



CAPACITY :

Medium Duty
Cuts up to 1/32”~1 1/4” (1~30 mm)

INLET CONNECTION :

M16 x1.5
(other sizes thread are available)

CERTIFICATIONS :

Conform with EN ISO 5172

CUTTING TIPS :

PART NO.	TIPS	ORIFICE (mm)	CUTTING RANGE (mm)	OXYGAN PRESSURE (Kg/cm ²)	Fuel Gas PRESSURE (Kg/cm ²)	Gas
750501A	M1	0.7	1-5	2.5	0.3	Acetylene
750502A	M2	0.9	5-15	3.0	0.3	
750503A	M3	1.1	15-30	3.5	0.3	
750501P	M1(LPG)	0.7	1-5	2.5	0.4	Propane
750502P	M2(LPG)	0.9	5-15	3.0	0.4	
750503P	M3(LPG)	1.1	15-30	3.5	0.4	

CAS-7506

“A” Type Cutting Torch Kit

FEATURES :

- Three stainless steel needle valves for precise flame adjustment and better durability
- Forged brass head and body for added strength and durability



CAPACITY :

Heavy Duty
Cuts up to 1/32” -4” (1~100 mm)

INLET CONNECTION :

M16 x1.5
(other sizes thread are available)

CERTIFICATIONS :

Conform with EN ISO 5172

CUTTING TIPS :

PART NO.	TIPS	ORIFICE (mm)	CUTTING RANGE (mm)	OXYGAN PRESSURE (Kg/cm ²)	Fuel Gas PRESSURE (Kg/cm ²)	Gas
750601A	A1	1.0	1-15	3.0	0.3	Acetylene
750602A	A2	1.3	15-50	3.5	0.5	
750603A	A3	1.6	50-100	4.0	0.8	
750601P	A1(LPG)	1.0	1-15	3.0	0.3	Propane
750602P	A2(LPG)	1.3	15-50	3.5	0.5	
750603P	A3(LPG)	1.6	50-100	4.0	0.8	

DMS-7507

Welding and Cutting Torch Kit

FEATURES :

- Three stainless steel needle valves for precise flame adjustment and better durability
- Forged brass head and body for added strength and durability



CAPACITY :

Dual Duty
Cuts up to 1/32”-1-1/4” (1mm~30mm)
Welds up to 1/64”-5/16” (0.5mm~8mm)

INLET CONNECTION :

M16 x1.5
(other sizes thread are available)

SPECIFICATIONS :

Model No.	DMS-7507	
Welding Connection Tube	750700	
Tips	Welding	750301 (#50) / 750302 (#75) / 750303 (#100) 750304 (#150) / 750305 (#225) / 750306 (#350) 750307 (#500)
	Cutting	750501A (#M1) / 750502A (#M2) / 750503A (#M3)



VH-217
VICTOR® Style
Cutting Torch Kit

CAPACITY :
 Heavy Duty
 Cuts up to 8"(200 mm)

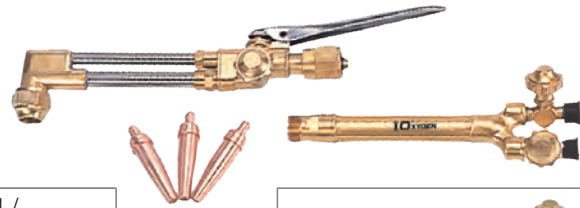
INLET CONNECTION :
 9/16"-18N

CERTIFICATIONS :
 UL Listed



SPECIFICATIONS :

TORCH HANDLE	VH-211 / VHF-211(Optional)
CUTTING ATTACHMENT	VH-212
TIP	1-1-101 2-1-101 3-1-101




VICTOR is registered trademarks owned by VICTOR Equipment Company, a Thermadyne Company.

VH-218
VICTOR® Style
Cutting Torch Kit

CAPACITY :
 Heavy Duty
 Cuts up to 8"(200 mm)

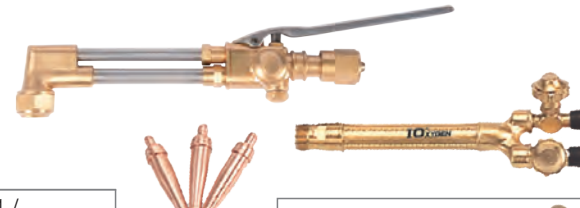
INLET CONNECTION :
 9/16"-18N

CERTIFICATIONS :
 UL Listed



SPECIFICATIONS :

TORCH HANDLE	VH-211 / VHF-211(Optional)
CUTTING ATTACHMENT	VH-2460
TIP	1-1-101 2-1-101 3-1-101



VICTOR is registered trademarks owned by VICTOR Equipment Company, a Thermadyne Company.

VM-227
VICTOR® Style
Cutting Torch Kit

CAPACITY :
 Medium Duty
 Cuts up to 6"(150 mm)

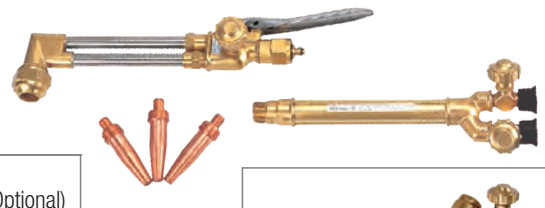
INLET CONNECTION :
 9/16"-18N

CERTIFICATIONS :
 UL Listed



SPECIFICATIONS :

TORCH HANDLE	VM-221 / VMF-221(Optional)
CUTTING ATTACHMENT	VM-222
TIP	1-3-101 2-3-101 3-3-101




VICTOR is registered trademarks owned by VICTOR Equipment Company, a Thermadyne Company.

HC73-5
HARRIS® Style
Cutting Torch Kit

CAPACITY :
 Medium Duty
 Cuts up to 6"(150 mm)

INLET CONNECTION :
 9/16"-18N

CERTIFICATIONS :
 UL Listed



SPECIFICATIONS :

TORCH HANDLE	HC63-2
CUTTING ATTACHMENT	HC73-2
TIP	6290-1 6290-2 6290-3



HARRIS is registered trademarks owned by HARRIS Calorific, Inc, a Lincoln Electric Company.



HC73-6

HARRIS® Style Cutting Torch Kit

CAPACITY :

Medium Duty
Cuts up to 6"(150 mm)

INLET CONNECTION :

9/16"-18N

CERTIFICATIONS :

UL Listed



SPECIFICATIONS :

TORCH HANDLE	43-2
CUTTING ATTACHMENT	49-2
TIP	6290-1 6290-2 6290-3



HARRIS is registered trademarks owned by HARRIS Calorific, Inc, a Lincoln Electric Company.

HC73-7

HARRIS® Style Cutting Torch Kit

CAPACITY :

Medium Duty
Cuts up to 6"(150 mm)

INLET CONNECTION :

9/16"-18N

CERTIFICATIONS :

UL Listed



SPECIFICATIONS :

TORCH HANDLE	HC63-2
CUTTING ATTACHMENT	59-3
TIP	ANME-1(1/32") ANME-2(3/64") ANME-3(1/16")



HARRIS is registered trademarks owned by HARRIS Calorific, Inc, a Lincoln Electric Company.

AG-266

BRITISH Style Cutting Torch Kit

CAPACITY :

Light Duty
Cuts up to 3"(75 mm)

INLET CONNECTION :

G 3/8

CERTIFICATIONS :

Conform with EN ISO 5172

SPECIFICATIONS :

TORCH HANDLE	AG-261
CUTTING ATTACHMENT	AG-262
TIP	ANME-1(1/32") ANME-2(3/64") ANME-3(1/16")



AGA is registered trademark of The Control Equipment AB.

AG-318

AGA® X21 Style Cutting Torch Kit

CAPACITY :

Heavy Duty
Cuts up to 8"(200 mm)

INLET CONNECTION :

G 3/8

CERTIFICATIONS :

Conform with EN ISO 5172

SPECIFICATIONS :

TORCH HANDLE	AG-315
CUTTING ATTACHMENT	AG-316
TIP	ANME-1(1/32") ANME-2(3/64") ANME-3(1/16")



AGA is registered trademark of The Control Equipment AB.



AF-316

AFROX® Style Cutting Torch Kit

CAPACITY :

Medium Duty
Cuts up to 6"(150 mm)

INLET CONNECTION :

G 3/8

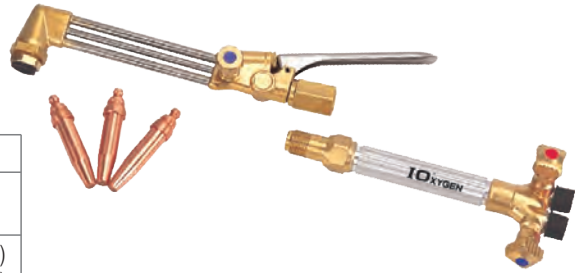
CERTIFICATIONS :

Conform with EN ISO 5172

SPECIFICATIONS :

TORCH HANDLE	AF-311
CUTTING ATTACHMENT	AF-312
TIP	ANME-1(1/32") ANME-2(3/64") ANME-3(1/16")

AFROX is registered trademarks owned by BOC Group.



MG-247

CIGWELD® Style Cutting Torch Kit

CAPACITY :

Medium Duty
Cuts up to 6"(150 mm)

INLET CONNECTION :

5/8"-18N

CERTIFICATIONS :

Conform with AS 4839

SPECIFICATIONS :

TORCH HANDLE	MG-241
CUTTING ATTACHMENT	MG-242
TIP	41-8 41-12 41-15

CIGWELD is registered trademarks owned by CIGWELD Pty Ltd, a division of Thermadyne Company.



UNI-6

BRITISH Style Cutting Torch Kit

CAPACITY :

Medium Duty
Cuts up to 6"(150 mm)

INLET CONNECTION :

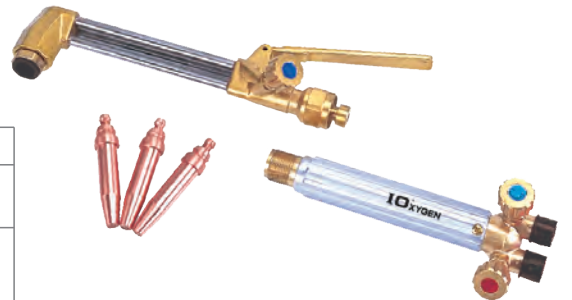
G 3/8

CERTIFICATIONS :

Conform with EN ISO 5172

SPECIFICATIONS :

TORCH HANDLE	UNI-3
CUTTING ATTACHMENT	UNI-4
TIP	ANME-1(1/32") ANME-2(3/64") ANME-3(1/16")



GL-810

GLOOR® Style Cutting Torch Kit

CAPACITY :

Medium Duty
Cuts up to 6"(150 mm)

INLET CONNECTION :

G 1/4 , G 3/8

CERTIFICATIONS :

Conform with EN ISO 5172

SPECIFICATIONS :

TORCH HANDLE	810201
CUTTING ATTACHMENT	810202
TIP	810211 810212 810213

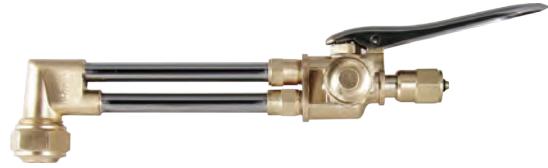
GLOOR is registered trademarks owned by Gloor Bros Ltd.





VM-202

VICTOR[®] Style
Cutting Attachment | OXY-ACETYLENE, PROPANE



FEATURES :

- Forged brass head and body for added strength and durability
- Attached quickly and simply to VM-201 torch handle
- Stainless steel needle valve for precise flame adjustment and better durability
- Stainless steel tube construction for maximum strength
- Double O-ring seal for quick hand tight connection and leak free
- Stainless steel high pressure lever
- It can be operated on any fuel gas just by changing tips

CAPACITY :

Light Duty
 Cuts up to 3"(75 mm)

CERTIFICATIONS :

UL Listed



SPECIFICATIONS :

MODEL	VM-202
RECOMMENDED TORCH HANDLE	VM-201
TIP	3-GPN / 3-101

VM-222

VICTOR[®] Style
Cutting Attachment | OXY-ACETYLENE, PROPANE



FEATURES :

- Forged brass head and body for added strength and durability
- Stainless steel needle valve for precise flame adjustment and better durability
- Stainless steel tube construction for maximum strength
- Double O-ring seal for quick hand tight connection and leak free
- Stainless steel high pressure lever

CAPACITY :

Medium Duty
 Cuts up to 6"(150 mm)

CERTIFICATIONS :

UL Listed



SPECIFICATIONS :

MODEL	VM-222
RECOMMENDED TORCH HANDLE	VM-221 / VMF-221 (Built-in Flashback Arrestor)
TIP	3-GPN / 3-101

VH-212

VICTOR[®] Style
Cutting Attachment | OXY-ACETYLENE, PROPANE



FEATURES :

- Forged brass head and body for added strength and durability
- Stainless steel needle valve for precise flame adjustment and better durability
- Stainless steel tube construction for maximum strength
- Double O-ring seal for quick hand tight connection and leak free
- Stainless steel high pressure lever

CAPACITY :

Heavy Duty
 Cuts up to 8"(200 mm)

CERTIFICATIONS :

UL Listed



SPECIFICATIONS :

MODEL	VH-212
RECOMMENDED TORCH HANDLE	VH-211 / VHF-211 (Built-in Flashback Arrestor)
TIP	1-GPN / 1-101



VH-2460

VICTOR® Style

Cutting Attachment | OXY-ACETYLENE, PROPANE

FEATURES :

- Forged brass head and body for added strength and durability
- Stainless steel needle valve for precise flame adjustment and better durability
- Stainless steel tube construction for maximum strength
- Double O-ring seal for quick hand tight connection and leak free
- Stainless steel high pressure lever

CAPACITY :

Heavy Duty
Cuts up to 8"(200 mm)

CERTIFICATIONS :

UL Listed



SPECIFICATIONS :

MODEL	VH-2460
RECOMMENDED TORCH HANDLE	VH-211 / VHF-211 (Built-in Flashback Arrestor)
TIP	1-GPN / 1-101

VICTOR is registered trademarks owned by VICTOR Equipment Company, a Thermadyne Company.



49-2/49-2F

HARRIS® Style

Cutting Attachment | OXY-ACETYLENE, PROPANE

FEATURES :

- Forged brass head and body for added strength and durability
- Head mixing for highest operator safety
- Built-in safety plug in torch head
- Stainless steel needle valve for precise flame adjustment and better durability
- Triangular stainless steel gas tubes for maximum strength
- Double O-ring seal for quick hand tight connection and leak free

CAPACITY :

Medium Duty
Cuts up to 6"(150 mm)

CERTIFICATIONS :

UL Listed



SPECIFICATIONS :

MODEL	49-2 / 49-2F
RECOMMENDED TORCH HANDLE	HC63-2 / 43-2
TIP	6290 / 6290-NX

HARRIS is registered trademarks owned by HARRIS Calorific, Inc, a Lincoln Electric Company.



49-2B/49-2G

HARRIS® Style

Cutting Attachment | OXY-ACETYLENE, PROPANE

FEATURES :

- Forged brass head and body for added strength and durability
- Head mixing for highest operator safety
- Built-in safety plug in torch head
- Stainless steel needle valve for precise flame adjustment and better durability
- Double O-ring seal for quick hand tight connection and leak free

CAPACITY :

Medium Duty
Cuts up to 6"(150 mm)

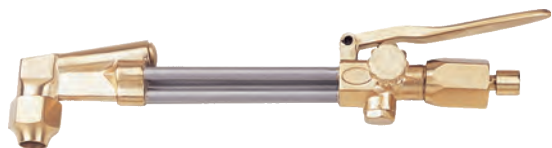
CERTIFICATIONS :

Conform with EN ISO 5172

SPECIFICATIONS :

MODEL	49-2B/49-2G
RECOMMENDED TORCH HANDLE	HC58-5
TIP	6290 / 6290-NX

HARRIS is registered trademarks owned by HARRIS Calorific, Inc, a Lincoln Electric Company.





HC57-2/HC57-2A

HARRIS[®] Style
Cutting Attachment | OXY-ACETYLENE, PROPANE

FEATURES :

- Forged brass head and body for added strength and durability
- O-ring seal for quick hand tight connection and leak free
- Stainless steel needle valve for precise flame adjustment and better durability



CAPACITY :

Medium Duty
 Cuts up to 6"(150 mm)

CERTIFICATIONS :

Conform with EN ISO 5172

SPECIFICATIONS :

MODEL	HC57-2 / HC57-2A
RECOMMENDED TORCH HANDLE	HC58-5
TIP	6290 / 6290-NX

HARRIS is registered trademarks owned by HARRIS Calorific, Inc, a Lincoln Electric Company.

HC73-2/HC73-2F

HARRIS[®] Style
Cutting Attachment | OXY-ACETYLENE, PROPANE

FEATURES :

- Forged brass head and body for added strength and durability
- Head mixing for highest operator safety
- Stainless steel needle valve for precise flame adjustment and better durability
- Triangular stainless steel gas tubes for maximum strength
- Double O-ring seal for quick hand tight connection and leak free
- Brass high pressure lever



CAPACITY :

Medium Duty
 Cuts up to 6"(150 mm)

CERTIFICATIONS :

UL Listed



SPECIFICATIONS :

MODEL	HC73-2 / HC73-2F
RECOMMENDED TORCH HANDLE	HC63-2 / 43-2
TIP	6290 / 6290-NX

HC72-3/HC72-3F

HARRIS[®] Style
Cutting Attachment | OXY-ACETYLENE, PROPANE

FEATURES :

- Forged brass head and body for added strength and durability
- Double O-ring seal for quick hand tight connection and leak free
- Head mixing for highest operator safety
- Stainless steel needle valve for precise flame adjustment and better durability
- Triangular stainless steel gas tubes for maximum strength
- Brass high pressure lever



CAPACITY :

Medium Duty
 Cuts up to 4"(100 mm)

CERTIFICATIONS :

UL Listed



SPECIFICATIONS :

MODEL	HC72-3 / HC72-3F
RECOMMENDED TORCH HANDLE	HC85-3
TIP	6290 / 6290-NX

36-2

HARRIS® Style Cutting Attachment | OXY-ACETYLENE, PROPANE

FEATURES :

- Forged brass head and body for added strength and durability
- Double O-ring seal for quick hand tight connection and leak free
- Head mixing for highest operator safety
- Stainless steel needle valve for precise flame adjustment and better durability
- Triangular stainless steel gas tubes for maximum strength
- Brass high pressure lever

CAPACITY :

Light Duty
Cuts up to 3"(75 mm)

SPECIFICATIONS :

MODEL	36-2
RECOMMENDED TORCH HANDLE	19-6
TIP	3690-AC / 3690-P



59-3

HARRIS® Style Cutting Attachment | OXY-ACETYLENE, PROPANE

FEATURES :

- Forged brass head and body for added strength and durability
- Double O-ring seal for quick hand tight connection and leak free
- Tip mixing for highest operator safety
- Stainless steel needle valve for precise flame adjustment and better durability
- Triangular stainless steel gas tubes for maximum strength
- Brass high pressure lever

CAPACITY :

Medium Duty
Cuts up to 6"(150 mm)

CERTIFICATIONS :

UL Listed

**SPECIFICATIONS :**

MODEL	59-3
RECOMMENDED TORCH HANDLE	HC63-2 / 43-2
TIP	ANME / PNME

HARRIS is registered trademarks owned by HARRIS Calorific, Inc, a Lincoln Electric Company.



AG-262

BRITIST Style Cutting Attachment | OXY-ACETYLENE, PROPANE

FEATURES :

- Forged brass head and body for added strength and durability
- Teflon packing for hand tight seal and durability
- Tip mixing for highest operator safety
- Brass high pressure lever
- Stainless steel needle valve for precise flame adjustment and better durability
- Stainless steel triple tubes for strength & long life

CAPACITY :

Light Duty
Cuts up to 3"(75 mm)

CERTIFICATIONS :

Conform with EN ISO 5172

SPECIFICATIONS :

MODEL	AG-262
RECOMMENDED TORCH HANDLE	AG-261
TIP	ANME / PNME





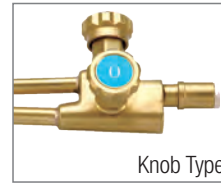
AG-282

AGA[®] X11 Style

Cutting Attachment | OXY-ACETYLENE, PROPANE

FEATURES :

- Forged brass head and body for added strength and durability
- Teflon gasket for hand tight seal and durability
- Mixer inside body portion for operator safety
- Stainless steel needle valve for precise flame adjustment and better durability
- Forged brass lever can flip 180°
- Brass high pressure lever (knob valve optional)



Knob Type

CAPACITY :

Medium Duty
Cuts up to 3"(75 mm)

CERTIFICATIONS :

Conform with EN ISO 5172

SPECIFICATIONS :

MODEL	AG-282
RECOMMENDED TORCH HANDLE	AG-281
TIP	HA211

AGA is registered trademark of The Control Equipment AB.

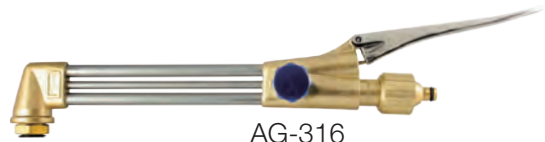
AG-316/AG-316C

AGA[®] X21 Style

Cutting Attachment | OXY-ACETYLENE, PROPANE

FEATURES :

- Forged brass head and body for added strength and durability
- Stainless steel needle valve for precise flame adjustment and better durability
- Double O-ring seal for quick hand tight connection and leak free
- Stainless steel triple tubes for strength & long life
- Aluminum lever can flip 180°
- 90° Head (75° & 180° are available)



AG-316



AG-316C

CAPACITY :

Heavy Duty
Cuts up to 8"(200 mm)

CERTIFICATIONS :

Conform with EN ISO 5172

SPECIFICATIONS :

MODEL	AG-316 / AG-316C
RECOMMENDED TORCH HANDLE	AG-315 / AG-315B
TIP	ANME / PNME

AGA is registered trademark of The Control Equipment AB.

MG-242

CIGWELD[®] Style

Cutting Attachment | OXY-ACETYLENE, PROPANE

FEATURES :

- Forged brass head and body for added strength and durability
- Double O-ring seal for quick hand tight connection and leak free
- Locking teeth enable to be repositioned & locking strength
- Stainless steel needle valve for precise flame adjustment and better durability
- Twin tubes, the bottom tube inside w/mixer for special design
- Brass high pressure lever



CAPACITY :

Medium Duty
Cuts up to 6"(150 mm)

CERTIFICATIONS :

Conform with AS 4839

SPECIFICATIONS :

MODEL	MG-242
RECOMMENDED TORCH HANDLE	MG-241
TIP	44 / 41

CIGWELD is registered trademarks owned by CIGWELD Pty Ltd, a division of Thermadyne Company.



UNI-4

MUREX® Style

Cutting Attachment | OXY-ACETYLENE, PROPANE

FEATURES :

- Locking teeth enable to be repositioned & locking strength
- Forged brass head and body for added strength and durability
- Double O-ring seal for quick hand tight connection and leak free
- Stainless steel needle valve for precise flame adjustment and better durability
- Triangular stainless steel gas tubes for maximum strength
- Brass high pressure lever

CAPACITY :

Medium Duty
Cuts up to 6"(150 mm)

CERTIFICATIONS :

Conform with EN ISO 5172

SPECIFICATIONS :

MODEL	UNI-4
RECOMMENDED TORCH HANDLE	UNI-3
TIP	ANME / PNME

MUREX is registered trademarks owned by MUREX Welding Products Limited.



AF-312

AFROX® Style

Cutting Attachment | OXY-ACETYLENE, PROPANE

FEATURES :

- Stainless steel triple tubes for strength & long life
- Forged brass head and body for added strength and durability
- Stainless steel needle valve for precise flame adjustment and better durability
- Stainless steel high pressure lever

CAPACITY :

Heavy Duty
Cuts up to 8"(200 mm)

CERTIFICATIONS :

Conform with EN ISO 5172

SPECIFICATIONS :

MODEL	AF-312
RECOMMENDED TORCH HANDLE	AF-311
TIP	ANME / PNME

AFROX is registered trademarks owned by BOC Group.



AF-412

AFROX® Style

Cutting Attachment | OXY-ACETYLENE, PROPANE

FEATURES :

- Stainless steel tube construction for maximum strength
- Forged brass head and body for added strength and durability
- Stainless steel needle valve for precise flame adjustment and better durability
- Brass high pressure lever

CAPACITY :

Light Duty
Cuts up to 1.5"(40 mm)

CERTIFICATIONS :

Conform with EN ISO 5172

SPECIFICATIONS :

MODEL	AF-412
RECOMMENDED TORCH HANDLE	AF-411
TIP	AFN

AFROX is registered trademarks owned by BOC Group.





VH-211FC **NEW**

VICTOR[®] Style Torch Handle

FEATURES :

- Tough extruded brass handle for strength
- Two stainless steel needle valves for precise flame adjustment and better durability
- No screws or soldered joints for easier maintenance
- Forged brass head and body for added strength and durability
- Built-in flashback arrestors and check valves for greater convenience and safety

SPECIFICATIONS :

MODEL	VH-211FC
RECOMMENDED CUTTING ATTACHMENT	VH-212 / VH-2460

CAPACITY :

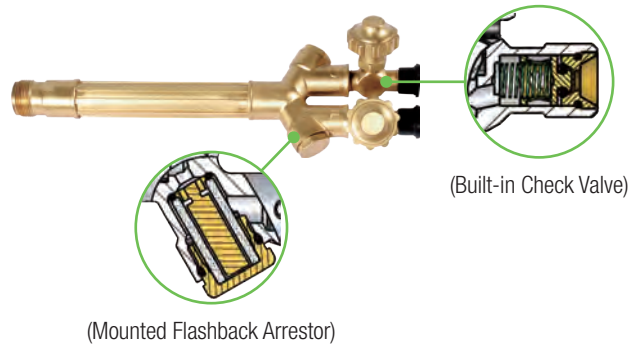
Heavy Duty
Cuts up to 8"(200 mm)
Welds up to 12.7 mm

INLET CONNECTION :

9/16"-18N

CERTIFICATIONS :

UL Listed



VM-221FC **NEW**

VICTOR[®] Style Torch Handle

FEATURES :

- Tough extruded brass handle for strength
- Two stainless steel needle valves for precise flame adjustment and better durability
- No screws or soldered joints for easier maintenance
- Forged brass head and body for added strength and durability
- Built-in flashback arrestors and check valves for greater convenience and safety

SPECIFICATIONS :

MODEL	VM-221FC
RECOMMENDED CUTTING ATTACHMENT	VM-222

CAPACITY :

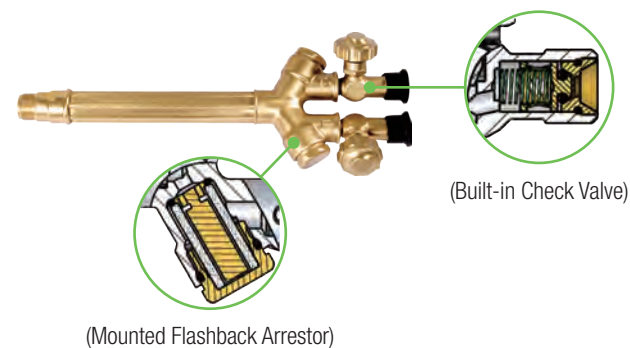
Medium Duty
Cuts up to 6"(150 mm)
Welds up to 9 mm

INLET CONNECTION :

9/16"-18N

CERTIFICATIONS :

UL Listed





VH-211

VICTOR® Style Torch Handle

FEATURES :

- Tough extruded brass handle for strength
- Two stainless steel needle valves for precise flame adjustment and better durability
- No screws or soldered joints for easier maintenance
- Forged brass head and body for added strength and durability

SPECIFICATIONS :

MODEL	VH-211
RECOMMENDED CUTTING ATTACHMENT	VH-212 / VH-2460

CAPACITY :

Heavy Duty
Cuts up to 8"(200 mm)
Welds up to 12.7 mm

INLET CONNECTION :

9/16"-18N

CERTIFICATIONS :

UL and CUL Listed



VM-221

VICTOR® Style Torch Handle

FEATURES :

- Tough extruded brass handle for strength
- Two stainless steel needle valves for precise flame adjustment and better durability
- No screws or soldered joints for easier maintenance
- Forged brass head and body for added strength and durability

SPECIFICATIONS :

MODEL	VM-221
RECOMMENDED CUTTING ATTACHMENT	VM-222

CAPACITY :

Medium Duty
Cuts up to 6"(150 mm)
Welds up to 9 mm

INLET CONNECTION :

9/16"-18N

CERTIFICATIONS :

UL and CUL Listed



VM-201

VICTOR® Style Torch Handle

FEATURES :

- Tough extruded brass handle for strength
- Two stainless steel needle valves for precise flame adjustment and better durability
- No screws or soldered joints for easier maintenance
- Forged brass head and body for added strength and durability

SPECIFICATIONS :

MODEL	VM-201
RECOMMENDED CUTTING ATTACHMENT	VM-202

CAPACITY :

Light Duty
Cuts up to 4"(100 mm)
Welds up to 9 mm

INLET CONNECTION :

3/8"-24N

CERTIFICATIONS :

UL and CUL Listed





19-7

VICTOR[®] Style Torch Handle

FEATURES :

- Two stainless steel needle valves for precise flame adjustment and better durability
- Strong brass barrel to protect internal tubes

SPECIFICATIONS :

MODEL	19-7
RECOMMENDED CUTTING ATTACHMENT	VM-202

CAPACITY :

Light Duty
Cuts up to 4"(100 mm)
Welds up to 9 mm

INLET CONNECTION :

3/8"-24N

CERTIFICATIONS :

Conform with EN ISO 5172



43-2

HARRIS[®] Style Torch Handle

FEATURES :

- Tough extruded brass handle for strength
- Two stainless steel needle valves for precise flame adjustment and better durability
- No screws or soldered joints for easier maintenance

SPECIFICATIONS :

MODEL	43-2
RECOMMENDED CUTTING ATTACHMENT	49-2 / 49-2F 59-3 / HC73-2

CAPACITY :

Medium Duty
Cuts up to 6"(150 mm)
Welds up to 50 mm

INLET CONNECTION :

9/16"-18N

CERTIFICATIONS :

UL Listed



43-2ST

HARRIS[®] Style Torch Handle

FEATURES :

- Tough extruded brass handle for strength
- Two stainless steel needle valves for precise flame adjustment and better durability
- No screws or soldered joints for easier maintenance
- Stainless steel thread

SPECIFICATIONS :

MODEL	43-2ST
RECOMMENDED CUTTING ATTACHMENT	49-2 / 49-2F 59-3 / HC73-2

CAPACITY :

Medium Duty
Cuts up to 6"(150 mm)
Welds up to 50 mm

INLET CONNECTION :

9/16"-18N

CERTIFICATIONS :

Conform with EN ISO 5172



HC58-5

HARRIS[®] Style Torch Handle

FEATURES :

- Forged brass body for added strength and durability
- Two stainless steel needle valves for precise flame adjustment and better durability
- No screws or soldered joints for easier maintenance

SPECIFICATIONS :

MODEL	HC58-5
RECOMMENDED CUTTING ATTACHMENT	HC57-2 / HC57-2A

CAPACITY :

Medium Duty
Cuts up to 6"(150 mm)
Welds up to 50 mm

INLET CONNECTION :

G 3/8

CERTIFICATIONS :

Conform with EN ISO 5172





HC63-2

HARRIS® Style Torch Handle

FEATURES :

- Brass handle
- Two stainless steel needle valves for precise flame adjustment and better durability
- Two separate gas tubes for safety
- Forged brass head and body for added strength and durability

SPECIFICATIONS :

MODEL	HC63-2
RECOMMENDED CUTTING ATTACHMENT	49-2 / 49-2F 59-3 / HC73-2

CAPACITY :

Medium Duty
Cuts up to 6"(150 mm)
Welds up to 50 mm

INLET CONNECTION :

9/16"-18N

CERTIFICATIONS :

UL Listed



HC85-3

HARRIS® Style Torch Handle

FEATURES :

- Brass handle
- Two stainless steel needle valves for precise flame adjustment and better durability
- Two separate gas tubes for safety
- Forged brass head and body for added strength and durability

SPECIFICATIONS :

MODEL	HC85-3
RECOMMENDED CUTTING ATTACHMENT	HC72-3

CAPACITY :

Medium Duty
Cuts up to 4"(100 mm)
Welds up to 20 mm

INLET CONNECTION :

9/16"-18N

CERTIFICATIONS :

UL Listed



50-10

HARRIS® Style Automatic Torch Handle

FEATURES :

- Automatic on/off gas control to reduce operating cost and improve more convenience & safety
- Adjustable pilot light
- Forged brass head and body for added strength and durability

SPECIFICATIONS :

MODEL	50-10
RECOMMENDED CUTTING ATTACHMENT	36-2

CAPACITY :

Light Duty
Cuts up to 3"(75 mm)
Welds up to 6 mm

INLET CONNECTION :

9/16"-18N

CERTIFICATIONS :

Conform with EN ISO 5172



19-6

HARRIS® Style Torch Handle

FEATURES :

- Forged brass head and body for added strength and durability
- Two stainless steel needle valves for precise flame adjustment and better durability
- Two separate gas tubes for safety

SPECIFICATIONS :

MODEL	19-6
RECOMMENDED CUTTING ATTACHMENT	36-2

CAPACITY :

Medium Duty
Cuts up to 3"(75 mm)
Welds up to 6 mm

INLET CONNECTION :

9/16"-18N

CERTIFICATIONS :

Conform with EN ISO 5172





UNI-3

BRITISH Style Torch Handle

FEATURES :

- Aluminum handle for less weight & more comfort
- Two stainless steel needle valves for precise flame adjustment and better durability
- Forged brass head and body for added strength and durability

SPECIFICATIONS :

MODEL	UNI-3
RECOMMENDED CUTTING ATTACHMENT	UNI-4 / UNI-4H

CAPACITY :

Medium Duty
Cuts up to 6"(150 mm)
Welds up to 9 mm

INLET CONNECTION :

G 3/8

CERTIFICATIONS :

Conform with EN ISO 5172



AG-261

BRITISH Style Torch Handle

FEATURES :

- Two stainless steel needle valves for precise flame adjustment and better durability
- Two separate gas tubes for safety

SPECIFICATIONS :

MODEL	AG-261
RECOMMENDED CUTTING ATTACHMENT	AG-262

CAPACITY :

Light Duty
Cuts up to 3"(75 mm)
Welds up to 8 mm

INLET CONNECTION :

G 3/8

CERTIFICATIONS :

Conform with EN ISO 5172



AG-315/AG-315B

BRITISH Style Torch Handle

FEATURES :

- Two stainless steel needle valves for precise flame adjustment and better durability
- Aluminum handle for less weight & more comfort
- Forged brass head and body for added strength and durability

SPECIFICATIONS :

MODEL	AG-315 / AG-315B
RECOMMENDED CUTTING ATTACHMENT	AG-316 / AG-316C

CAPACITY :

Heavy Duty
Cuts up to 8"(200 mm)
Welds up to 9 mm

INLET CONNECTION :

G 3/8

CERTIFICATIONS :

Conform with EN ISO 5172



AG-315



AG-315B

AG-281

AGA® X11 Style Torch Handle

FEATURES :

- Two stainless steel needle valves for precise flame adjustment and better durability
- Two separate gas tubes for safety
- Forged brass head and body for added strength and durability

SPECIFICATIONS :

MODEL	AG-281
RECOMMENDED CUTTING ATTACHMENT	AG-282

CAPACITY :

Light Duty
Cuts up to 3"(75 mm)
Welds up to 8 mm

INLET CONNECTION :

G 1/4

CERTIFICATIONS :

Conform with EN ISO 5172



AG-281A



AG-281D



MG-241

CIGWELD® Style Torch Handle

FEATURES :

- Aluminum coated handle for less weight & more comfort
- Two stainless steel needle valves for precise flame adjustment and better durability
- Two separate gas tubes for safety
- Forged brass head and body for added strength and durability

SPECIFICATIONS :

MODEL	MG-241
RECOMMENDED CUTTING ATTACHMENT	MG-242

CIGWELD is registered trademarks owned by CIGWELD Pty Ltd, a division of Thermadyne Company.

CAPACITY :

Medium Duty
Cuts up to 6"(150 mm)
Welds up to 9 mm

INLET CONNECTION :

5/8"-18N

CERTIFICATIONS :

Conform with AS 4839



AF-311

AFROX® Style Torch Handle

FEATURES :

- Torch head w/double O-ring
- Two stainless steel needle valves for precise flame adjustment and better durability
- Two separate passages of gas for safety
- Forged brass head and body for added strength and durability

SPECIFICATIONS :

MODEL	AF-311
RECOMMENDED CUTTING ATTACHMENT	AF-312

AFROX is registered trademarks owned by BOC Group.

CAPACITY :

Heavy Duty
Cuts up to 8"(200 mm)
Welds up to 9 mm

INLET CONNECTION :

G 3/8

CERTIFICATIONS :

Conform with EN ISO 5172



AF-411

AFROX® Style Torch Handle

FEATURES :

- Two stainless steel needle valves for precise flame adjustment and better durability
- Two separate gas tubes for safety
- Forged brass head and body for added strength and durability

SPECIFICATIONS :

MODEL	AF-411
RECOMMENDED CUTTING ATTACHMENT	AF-412

AFROX is registered trademarks owned by BOC Group.

CAPACITY :

Light Duty
Cuts up to 3"(75 mm)
Welds up to 6 mm

INLET CONNECTION :

5/8"-18N

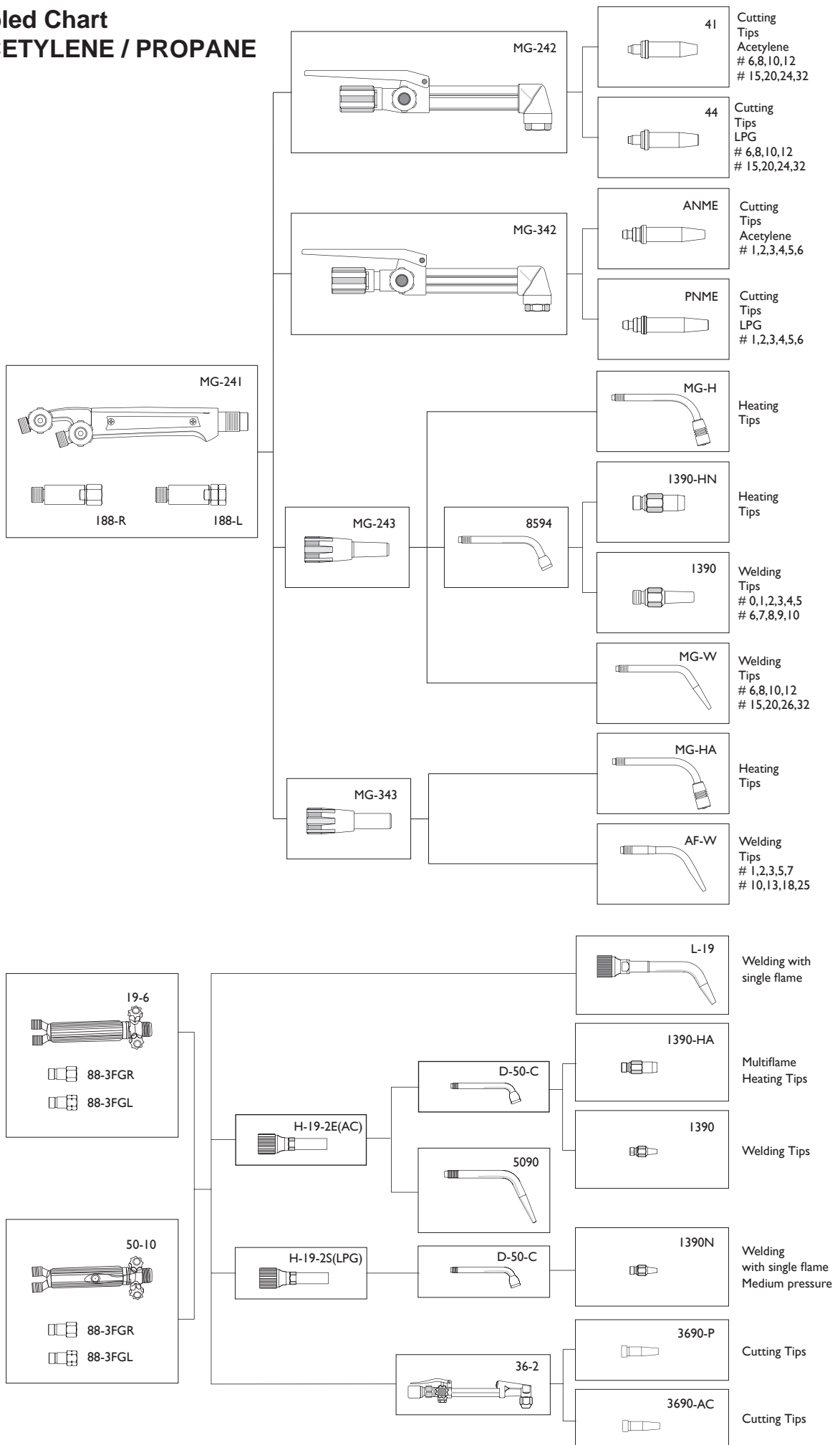
CERTIFICATIONS :

Conform with EN ISO 5172





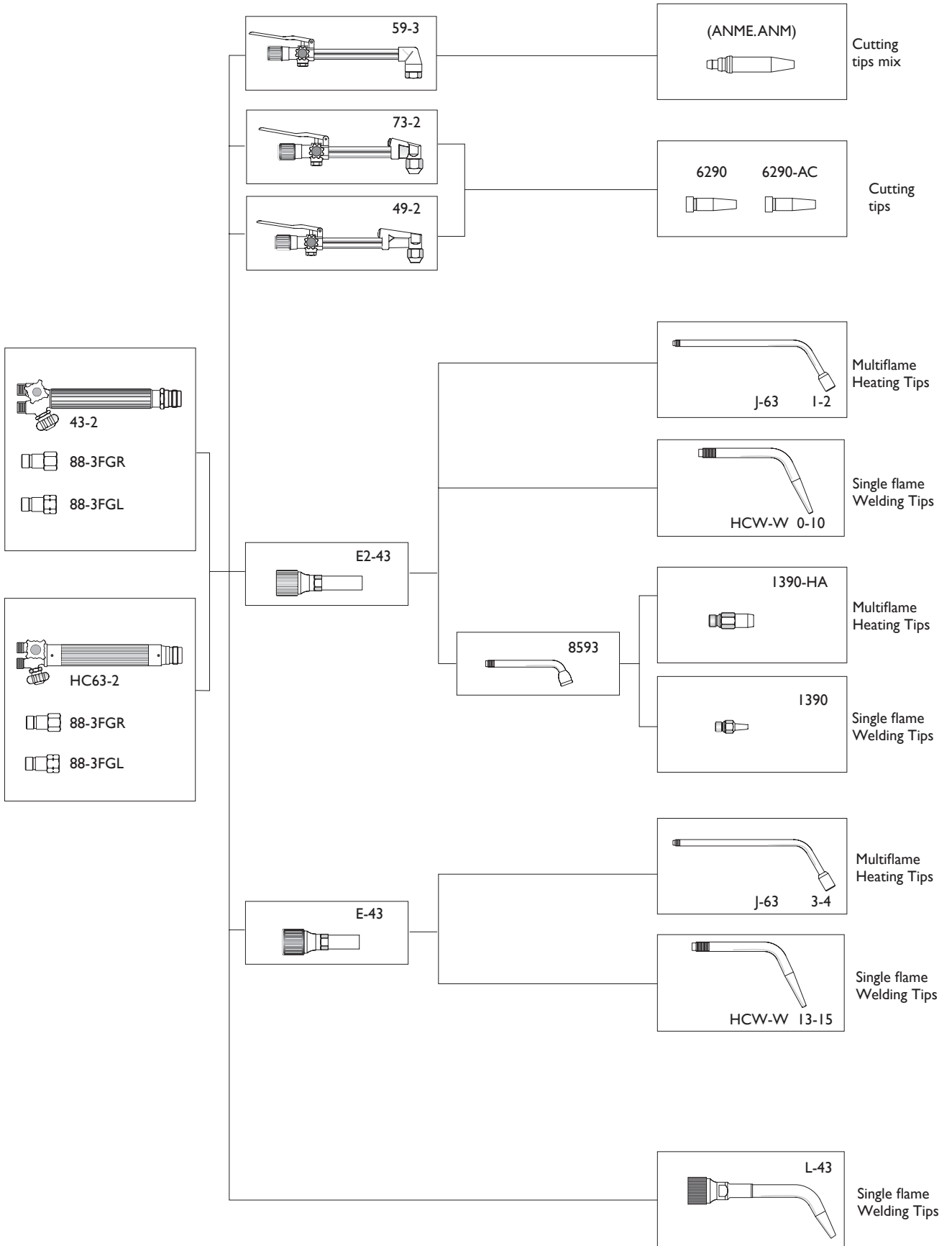
Assembled Chart OXY-ACETYLENE / PROPANE



**Assembled Chart
OXY-ACETYLENE**

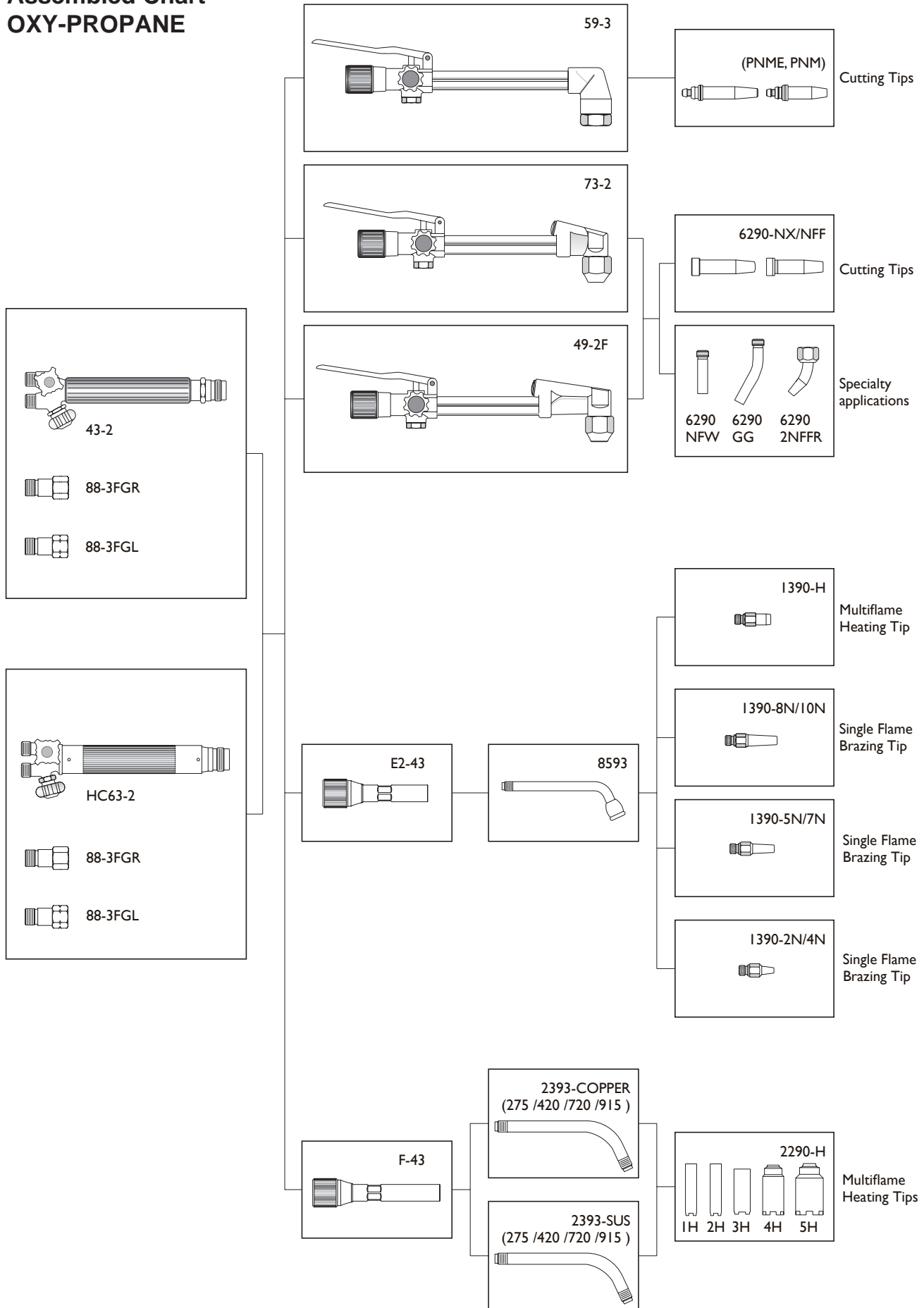


ASSEMBLED CHART





Assembled Chart OXY-PROPANE





WELDING & HEATING TORCHES





SM-502 / SM-503

SMITH® Style

Little Welding Torch

FEATURES :

- An ideal tool for jewelry, crafts, metal sculpture, glass blowing, electronics repair & manufacture and much more.
- Color coded hoses and valves prevent errors in setup and operation.
- This torch with an aluminum alloy body weighs only 0.16kg.
- SM-502 tips are made of copper with min. diameter 0.2mm.
- SM-503 tips are two-piece type and made of brass.

The content is 1pcs torch, two-color 200cm long & 5.5mm diameter twin hose.

INLET CONNECTION :

9/16"-18N

SPECIFICATIONS :

Model	Tip	Orifice Φ(mm)	Welding Range (mm)	OXY. Pressure (Kg/cm ²)	ACE. Pressure (Kg/cm ²)
SM-502	SM-W2	0.2	0.2-0.5	1.0	0.2-0.5
	SM-W3	0.3	0.5-0.8	1.0	0.2-0.5
	SM-W4	0.5	0.8-1.0	1.5	0.2-0.5
	SM-W5	0.7	1.0-1.5	2.0	0.2-0.5
	SM-W6	0.9	1.5-2.0	2.0	0.2-0.5

Model	Tip	Orifice Φ(mm)	Welding Range (mm)	OXY. Pressure (Kg/cm ²)	LPG. Pressure (Kg/cm ²)
SM-503	SM-W1P	0.6	0.8-1.0	1.5	0.3-0.5
	SM-W2P	0.8	1.0-1.5	1.5	0.3-0.5
	SM-W3P	1.0	1.5-2.0	2.0	0.3-0.5
	SM-W4P	1.2	2.0-2.5	2.0	0.3-0.5
	SM-W5P	1.4	2.5-3.0	2.0	0.3-0.5



SMIITH is a registered trademark of The Smith Equipment Manufacturing.

AW-501

SAF® Style

"S" Type Welding Torch

- We provide red / blue / green shank for your selection

WELDING RANGE :

0.5mm~3mm (1/64"~1/8")

INLET CONNECTION :

G 1/4-RH, G 3/8-LH

WELDING TIP SPECIFICATIONS :

Part No.	TIP	Orifice Φ(mm)	Welding Range (mm)	OXY. Pressure (Kg/cm ²)	Ace. Pressure (Kg/cm ²)
AWA01	100	0.9	0.5-1	1.5	0.2-0.5
AWA02	160	1.0	1-1.5	1.5	0.2-0.5
AWA03	250	1.1	1.5-2	2.0	0.2-0.5
AWA04	315	1.2	2-2.5	2.5	0.2-0.5
AWA05	400	1.5	2.5-3	2.5	0.2-0.5

SAF is a registered trademark of The Air Liquide Group.



AW-502

SAF® Style

"M" Type Welding

- We provide red / blue / green shank for your selection

WELDING RANGE :

2mm~10mm

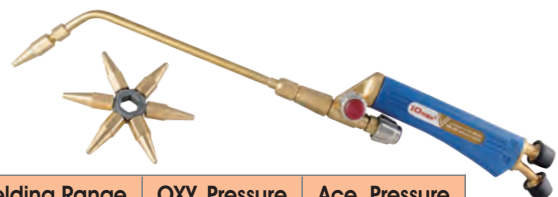
INLET CONNECTION :

G 1/4-RH, G 3/8-LH

WELDING TIP SPECIFICATIONS :

Part No.	TIP	Orifice Φ(mm)	Welding Range (mm)	OXY. Pressure (Kg/cm ²)	Ace. Pressure (Kg/cm ²)
AWA44	250	0.6	2-2.5	2	0.2-0.8
AWA44A	315	0.7	2.5-3	2	0.2-0.8
AWA44B	400	0.8	3-3.5	2.5	0.2-0.8
AWA44C	500	0.9	3.5-5	2.5	0.2-0.8
AWA44D	630	1.0	5-6.5	3	0.2-0.8
AWA44E	800	1.2	6.5-7.5	3.5	0.2-0.8
AWA44F	1000	1.5	7.5-10	4	0.2-0.8

SAF is a registered trademark of The Air Liquide Group.





WSS-194 | OXY-ACETYLENE
WSS-195 | OXY-PROPANE
Welding Torch

WELDING RANGE :

0.5mm~3mm (1/64"~1/8")

INLET CONNECTION :

9/16"-18N

WELDING TIP SPECIFICATIONS :

Model	TIP	Orifice Φ(mm)	Welding Range (mm)	OXY. Pressure (Kg/cm ²)	Gas Pressure (Kg/cm ²)	Gas
WSS-194	25	0.7	0.5-1	1.5	0.2-0.5	ACETYLENE
	50	0.8	1-1.5	1.5	0.2-0.5	
	75	0.9	1.5-2	2.0	0.2-0.5	
	100	1.0	2-2.5	2.5	0.2-0.5	
	150	1.2	2.5-3	2.5	0.2-0.5	
WSS-195	LPW-1	0.7	0.5-1	1.5	0.3	PROPANE
	LPW-2	0.9	1-1.5	1.5	0.3	
	LPW-3	1.1	1.5-2	2.0	0.3	
	LPW-4	1.3	2-2.5	2.5	0.3	
	LPW-5	1.5	2.5-3	2.5	0.4	



WSS-194



WSS-195

WZS-8003

"Z" Type Welding Torch

WELDING RANGE :

1/64"~1/4"(0.5mm~6mm)

INLET CONNECTION :

G 1/4-RH, G 3/8-LH

WELDING TIP SPECIFICATIONS :

Model	Torch Handle	Welding Tips					
		Part No.	TIP	Orifice Φ(mm)	Welding Range (mm)	OXY. Pressure (Kg/cm ²)	Ace. Pressure (Kg/cm ²)
WZS-8003	800301	800303	A1	0.7	0.5-1	1.5	0.2-0.5
		800304	A2	1.0	1-2	2.5	0.2-0.5
		800305	A3	1.3	2-4	3	0.2-0.5
		800306	A4	1.5	4-6	3	0.2-0.5



WGS-8102

"G" Type Welding Torch

WELDING RANGE :

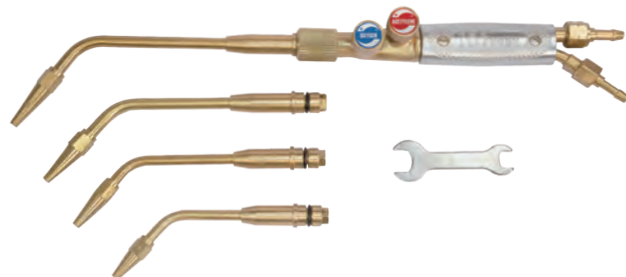
1/64"~1/4" (0.5mm~6mm)

INLET CONNECTION :

G 1/4-RH, G 3/8-LH

WELDING TIP SPECIFICATIONS :

Model	Torch Handle	Welding Tips						Wrench
		Part No.	TIP	Orifice Φ(mm)	Welding Range (mm)	OXY. Pressure (Kg/cm ²)	Ace. Pressure (Kg/cm ²)	
WGS-8102	810201	810203-1	A1	0.7	0.5-1	1.5	0.2-0.5	810215
		810204-2	A2	1.0	1-2	2.5	0.2-0.5	
		810205-3	A3	1.3	2-4	3	0.2-0.5	
		810206-4	A4	1.5	4-6	3	0.2-0.5	





WSS-7501

“S” Type Welding Torch

WELDING RANGE :

Welds up to 0.1mm~1.5mm

INLET CONNECTION :

M16×1.5

SPECIFICATIONS :



Model	Welding Tips					
	Part No.	TIP	Orifice Φ (mm)	Welding Range (mm)	OXY. Pressure (Kg/cm ²)	Ace. Pressure (Kg/cm ²)
WSS-7501	750101	10	0.4	0.1-0.2	1	0.1-0.2
	750102	16	0.5	0.2-0.5	1.5	0.1-0.2
	750103	25	0.6	0.5-1.0	1.5	0.1-0.2
	750104	40	0.7	1.0-1.5	1.5	0.1-0.2

WSS-7502

“S” Type Welding Torch

WELDING RANGE :

Welds up to 0.5mm~3mm (1/64”~1/8”)

INLET CONNECTION :

M16×1.5

SPECIFICATIONS :



Model	Welding Tips					
	Part No.	TIP	Orifice Φ (mm)	Welding Range (mm)	OXY. Pressure (Kg/cm ²)	Ace. Pressure (Kg/cm ²)
WSS-7502	750201	25	0.7	0.5-1	1.5	0.2-0.5
	750202	50	0.8	1-1.5	1.5	0.2-0.5
	750203	75	0.9	1.5-2	2.0	0.2-0.5
	750204	100	1.0	2-2.5	2.5	0.2-0.5
	750205	150	1.2	2.5-3	2.5	0.2-0.5

WMS-7503

“M” Type Welding Torch

WELDING RANGE :

Welds up to 0.5mm~8mm (1/64”~5/16”)

INLET CONNECTION :

M16×1.5

SPECIFICATIONS :



Model	Welding Tips					
	Part No.	TIP	Orifice Φ (mm)	Welding Range (mm)	OXY. Pressure (Kg/cm ²)	Ace. Pressure (Kg/cm ²)
WMS-7503	750301	50	1.0	0.5-1	1.5	0.2-0.5
	750302	75	1.1	1-1.5	1.5	0.2-0.5
	750303	100	1.2	1.5-2	2.0	0.2-0.5
	750304	150	1.4	2-2.5	2.5	0.2-0.5
	750305	225	1.6	2.5-3	2.5	0.2-0.5
	750306	350	1.8	3-5	3	0.2-0.5
	750307	500	2.1	5-8	3	0.2-0.5



VH-215

Welding Torch

WELDING RANGE :

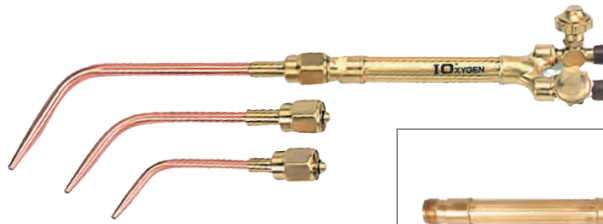
Medium Duty
Welds up to 0.5mm~12.7mm

INLET CONNECTION :

9/16"-18N

CERTIFICATIONS :

UL Listed



SPECIFICATIONS :

TORCH HANDLE	VH-211 / VHF-211(Optional)
TIP	VH-W(1,3,5)

VM-225

Welding Torch

WELDING RANGE :

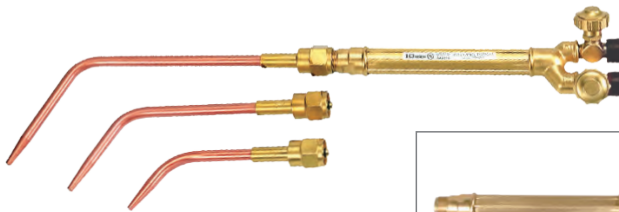
Medium Duty
Welds up to 0.5mm~9.5mm

INLET CONNECTION :

9/16"-18N

CERTIFICATIONS :

UL Listed



SPECIFICATIONS :

TORCH HANDLE	VM-221 / VMF-221(Optional)
TIP	VM-W (0,2,4)

HC63-5

Welding Torch

WELDING RANGE :

Medium Duty
Welds up to 0.5mm~9mm

INLET CONNECTION :

9/16"-18N

CERTIFICATIONS :

UL Listed



SPECIFICATIONS :

TORCH HANDLE	HC63-2
mixer	E2-43
TIP	HCW-W(3,5,7)

MG-245

Welding Torch

WELDING RANGE :

Medium Duty
Welds up to 0.5mm~9mm

INLET CONNECTION :

5/8"-18N

SPECIFICATIONS :

TORCH HANDLE	MG-241
mixer	MG-243
TIP	MG-W(8,12,15)





AG-265

Welding Torch

WELDING RANGE :

Medium Duty
Welds up to 0.5mm~6mm

INLET CONNECTION :

G 3/8



SPECIFICATIONS :

TORCH HANDLE	AG-261
Mixer	AG-263
TIP	AG-W(2,5,10)

AG-319

Welding Torch

WELDING RANGE :

Medium Duty
Welds up to 0.5mm~13mm

INLET CONNECTION :

G 3/8



SPECIFICATIONS :

TORCH HANDLE	AG-315
TIP Type	X21-W(2,4,6)

UNI-300

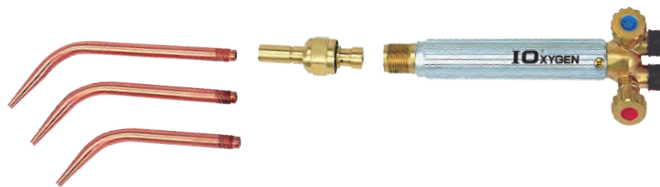
Welding Torch

WELDING RANGE :

Medium Duty
Welds up to 0.5mm~9mm

INLET CONNECTION :

G 3/8



SPECIFICATIONS :

TORCH HANDLE	UNI-3
Mixer	UNI-5
TIP	AF-W(3,5,7)

AF-315

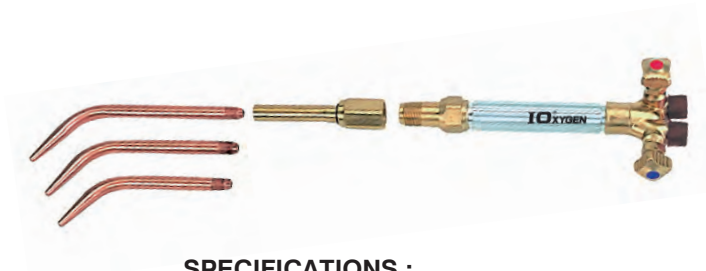
Welding Torch

WELDING RANGE :

Medium Duty
Welds up to 0.5mm~9mm

INLET CONNECTION :

G 3/8



SPECIFICATIONS :

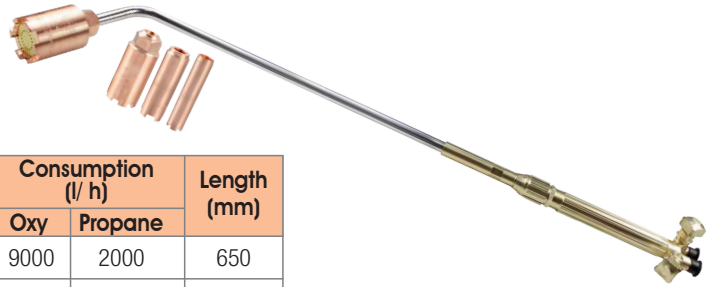
TORCH HANDLE	AF-311
Mixer	AF-313
TIP	AF-W(3,5,7)

HE-505

HARRIS® Style Heating Torch

SPECIFICATIONS :

Model	Tip	Range (mm)	Gas Pressure (Kg/cm ²)		Consumption (l/ h)		Length (mm)
			Oxy	Propane	Oxy	Propane	
HE-505-1	2290-2H	5-20	3.5	0.5	9000	2000	650
HE-505-2	2290-3H	5-30	4.0	1.0	10000	2500	750
HE-505-3	2290-4H	5-40	4.5	1.0	13000	3200	1050
HE-505-4	2290-5H	5-50	5.0	1-2	16000	4000	1250
HE-505	2290-2H, 2290-3H, 2290-4H, 2290-5H						1050



HE-509 NEW

HARRIS® Style Heating Torch

SPECIFICATIONS :

Model	Tip	Range (mm)	Gas Pressure (Kg/cm ²)		Consumption (l/ h)		Length (mm)
			Oxy	Propane	Oxy	Propane	
HE-509-1	2290-1H	5-10	3.5	0.4	8000	1500	650
HE-509-2	2290-2H	5-20	3.5	0.4	9000	2000	650
HE-509-3	2290-3H	5-30	4.0	0.4	10000	2500	750
HE-509-4	2290-4H	5-40	4.5	0.4	13000	3200	1050
HE-509	2290-1H, 2290-2H, 2290-3H, 2290-4H						1050



HE-506

Heating Torch

APPLICATION :

Soldering, brazing, annealing, straightening and bending plates, pipes and bars, preheating in welding jobs, drying molds, thawing jobs, asphalt work, etc.

SPECIFICATIONS :

Model No.	Tip	Head Size (mm)	Propane Pressure (Kg/cm ²)	Length (mm)
HE-506-1	HE-H1	25.4	0.3	500
HE-506-2	HE-H2	38.1	0.4	500
HE-506-3	HE-H3	50.8	0.5	500
HE-506-4	HE-H4	60	1.0	700
HE-506-5	HE-H4	60	1.0	1,000
HE-506	HE-H1,HE-H2,HE-H3			500





HT-507 Heating Torch



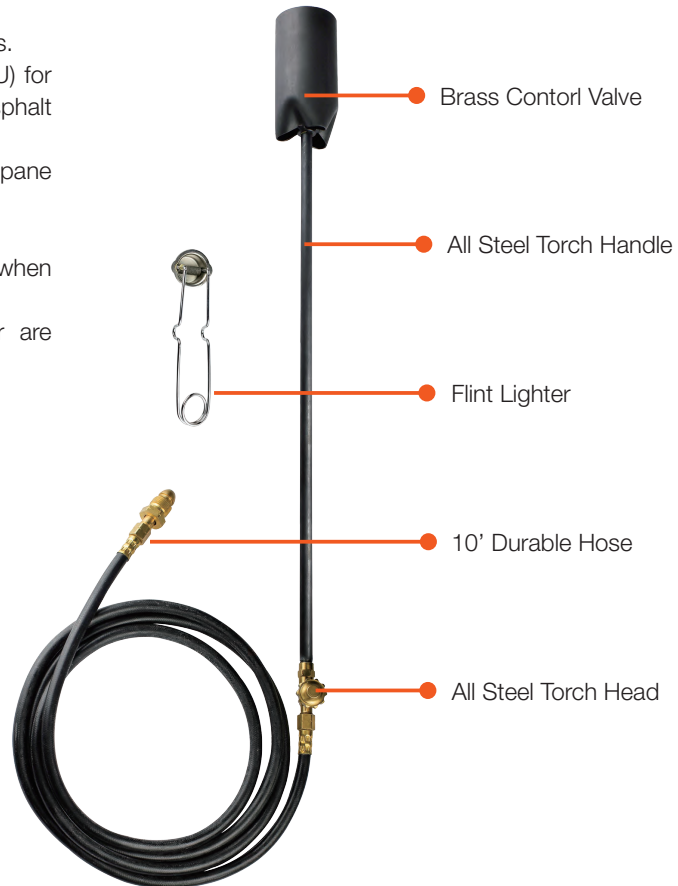
FEATURES :

- Length: 900mm
- Head size: 60mm
- Brass tube with stainless heating tip
- Suitable for applications that require large volume of heat.
- With the pressure lever, operator can go from pilot flame to full-brush flame immediately.

HT-508 Heating Torch

FEATURES :

- Design for heavy-duty outdoor applications.
- Large volume of heat (up to 500,000 BTU) for weed burning, ice / snow melting, asphalt removal and any other applications.
- For use with standard 20 lb liquid propane tanks.
- All steel tube and torch head.
- Excess flow safety valve shuts off flow when hose is accidentally cut or melted.
- 10' durable hose and single-flint striker are included in the outfit.
- For use with propane only.





TIPS





ANME / ANM

BRITISH® Style Acetylene Cutting Tips

FEATURES :

- One-piece type
- For 1601, 1602, NM-250, 59-3, AG-262, AG-316, UNI-4, AF-312, AG-511 & 198-32(BOC) cutting torches & cutting attachments.



ANME



ANM



SPECIFICATIONS :

Model	TIP	Cutting Range (mm)	OXY. Pressure (BAR)	Ace. Pressure (BAR)	Length (mm)
ANME-1	1/32"	1-5	1.5	0.5	88
ANME-2	3/64"	5-10	2.0	0.5	88
ANME-3	1/16"	10-30	2.5	1.0	88
ANME-4	5/64"	30-60	3.0	1.0	88
ANME-5	3/32"	60-100	3.5	1.5	88
ANME-6	1/8"	100-200	4.0	1.5	88

Model	TIP	Cutting Range (mm)	OXY. Pressure (BAR)	Ace. Pressure (BAR)	Length (mm)
ANM-1	1/32"	1-5	1.5	0.5	75
ANM-2	3/64"	5-10	2.0	0.5	75
ANM-3	1/16"	10-30	2.5	1.0	75
ANM-4	5/64"	30-60	3.0	1.0	75
ANM-5	3/32"	60-100	3.5	1.5	75
ANM-6	1/8"	100-200	4.0	1.5	75

1-101

VICTOR® Style Acetylene Cutting Tips

FEATURES :

- One-piece type
- For 1600, VH-212, VH-2460 & 398-2 cutting machine cutting torch & cutting attachments.



1-101



SPECIFICATIONS :

Model	Cutting Range (mm)	OXY. Pressure (BAR)	Ace. Pressure (BAR)	Length (mm)
1-1-101	5-10	1.5	0.5	76
2-1-101	10-30	2.0	0.5	76
3-1-101	30-50	2.0	1.0	76
4-1-101	50-70	2.5	1.0	76
5-1-101	70-150	3.0	1.5	76
6-1-101	150-200	3.5	1.5	76

VICTOR is registered trademarks owned by VICTOR Equipment Company, a Thermadyne Company.

3-101

VICTOR® Style Acetylene Cutting Tips

FEATURES :

- One-piece type
- For VM-202 & VM-222 cutting attachments



3-101



SPECIFICATIONS :

Model	Cutting Range (mm)	OXY. Pressure (BAR)	Ace. Pressure (BAR)	Length (mm)
0-3-101	1-5	1.5	0.5	59
1-3-101	5-10	1.5	0.5	59
2-3-101	10-30	2.0	1.0	59
3-3-101	30-50	2.0	1.0	59
4-3-101	50-70	2.5	1.0	59

VICTOR is registered trademarks owned by VICTOR Equipment Company, a Thermadyne Company.



41

CIGWELD® Style Acetylene Cutting Tips

FEATURES :

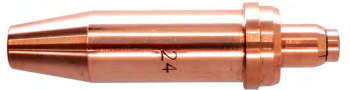
- One-piece type (Brass material)
- For 1600B & MG-242 cutting torch & cutting attachment.



41



Brass(Material)



Copper(Material)

SPECIFICATIONS :

Model	Cutting Range (mm)	OXY. Pressure (BAR)	Ace. Pressure (BAR)	Length (mm)
41-6	1-5	1.5	0.5	72
41-8	5-10	1.5	0.5	72
41-10	10-20	2.0	1.0	72
41-12	20-50	2.0	1.0	72
41-15	50-80	2.5	1.0	72
41-20	80-100	3.0	1.5	72
41-24	100-150	3.5	1.5	72
41-32	150-200	4.0	1.5	72

CIGWELD is registered trademarks owned by CIGWELD Pty Ltd, a division of Thermadyne Company.

6290

HARRIS® Style Acetylene Cutting Tips

FEATURES :

- One-piece type
- For 62-3, 42-4, 142, 198-2, TH98, 73-2 & 49-2 cutting torches, machine cutting torch & cutting attachments



6290



SPECIFICATIONS :

Model	Cutting Range (mm)	OXY. Pressure (BAR)	Ace. Pressure (BAR)	Length (mm)
6290-000	1-5	1.5	0.5	61
6290-00	5-10	1.5	0.5	61
6260-0	10-15	2.0	1.0	61
6290-1	15-25	2.5	1.0	61
6290-2	25-50	3.0	1.0	61
6290-3	50-100	3.5	1.0	61
6290-4	100-175	4.0	1.5	61
6290-5	175-200	5.0	1.5	61
6290-6	250-300	6.0	1.5	61

HARRIS is registered trademarks owned by HARRIS Calorific, Inc, a Lincoln Electric company.

6290-AC

HARRIS® Style Acetylene Cutting Tips

FEATURES :

- Two-piece type
- For 62-3, 42-4, 142, 198-2, TH98, 73-2 & 49-2 cutting torches, machine cutting torch & cutting attachments



6290-AC



SPECIFICATIONS :

Model No.	Cutting Range (mm)	OXY. Pressure (BAR)	Ace. Pressure (BAR)	Length (mm)
6290-000AC	1-5	1.5	0.5	53
6290-00AC	5-10	1.5	0.5	53
6260-0AC	10-15	2.0	1.0	53
6290-1AC	15-25	2.5	1.0	53
6290-2AC	25-50	3.0	1.0	53
6290-3AC	50-100	3.5	1.0	53
6290-4AC	100-175	4.0	1.5	53
6290-5AC	175-200	5.0	1.5	53
6290-6AC	250-300	6.0	1.5	53

HARRIS is registered trademarks owned by HARRIS Calorific, Inc, a Lincoln Electric company.



3690-AC

HARRIS® Style Acetylene Cutting Tips

FEATURES :

- Two-piece type
- For 36-2 cutting attachment



3690-AC



SPECIFICATIONS :

Model	Cutting Range (mm)	OXY. Pressure (BAR)	Ace. Pressure (BAR)	Length (mm)
3690-00AC	1-6	1.5	0.5	38
3690-0AC	6-13	2.0	0.5	38
3690-1AC	13-25	2.5	1.0	38
3690-2AC	25-75	3.0	1.0	38

HARRIS is registered trademarks owned by HARRIS Calorific, Inc, a Lincoln Electric company.

AFN

AFROX® Style Acetylene Cutting Tips

FEATURES :

- One-piece type
- For AF-412 cutting attachment



AFN



SPECIFICATIONS :

Model	Cutting Range (mm)	OXY. Pressure (BAR)	Ace. Pressure (BAR)	Length (mm)
AFN-1	1-3	1.0	0.5	50.8
AFN-2	3-8	1.5	0.5	50.8
AFN-3	8-20	2.0	0.5	50.8

AFROX is registered trademarks owned by The Linde Group .

810211

GLOOR® Style Acetylene Cutting Tips

FEATURES :

- One-piece type (Copper-plated brass material)
- For 810202 cutting attachment



810211



SPECIFICATIONS :

Model	Cutting Range (mm)	OXY. Pressure (BAR)	Ace. Pressure (BAR)	Length (mm)
810211	3-20	2.0	1.0	58
810212	20-50	2.5	1.0	58
810213	50-100	3.0	1.5	58

GLOOR is registered trademarks owned by Gloor Bros Ltd.

ST8-A

CHIYODA® Style Acetylene Cutting Tips

FEATURES :

- Two-piece type
- For Strong-8, 42-8 & 42-9 cutting torches



ST8-A



SPECIFICATIONS :

Model No.	Cutting Range (mm)	OXY. Pressure (BAR)	Ace. Pressure (BAR)	Length (mm)
ST8-1A	1-5	1.5	0.5	75
ST8-2A	5-10	1.5	0.5	75
ST8-3A	10-30	2.0	1.0	75
ST8-4A	30-50	2.5	1.0	75

CHIYODA is registered trademarks owned by CHIYODA Seiki Co., Ltd.



G1-A

FRENCH Style Acetylene Cutting Tips

FEATURES :

- One-piece type
- For 1606 & 1607 cutting torches



G1-A



SPECIFICATIONS :

Model No.	Cutting Range (mm)	OXY. Pressure (BAR)	Ace. Pressure (BAR)	Length (mm)
G1-A-7/10	3-10	3.0-5.0	0.5-1.0	86
G1-A-10/10	10-25	5.0-7.0	0.5-1.0	86
G1-A-12/10	25-50	5.0-7.0	0.5-1.0	86
G1-A-16/10	50-80	5.0-7.0	0.5-1.0	86
G1-A-20/10	80-120	5.0-7.0	0.5-1.0	86
G1-A-25/10	120-200	5.0-7.0	0.5-1.0	86
G1-A-30/10	200-300	5.0-7.0	0.5-1.0	86

HA211

AGA® X11 Style Acetylene Cutting Tips

FEATURES :

- One-piece type
- For AG-282 cutting attachment



HA211



SPECIFICATIONS :

Model No.	Cutting Range (mm)	OXY. Pressure (BAR)	Ace. Pressure (BAR)	Length (mm)
HA211-1	1-3	1.0	0.5	44
HA211-2	3-8	1.5	0.5	44
HA211-3	8-20	2.0	1.0	44
HA211-4	20-50	2.5	1.5	44
HA211-5	50-100	3.0	1.5	44

AGA is registered trademark of The Control Equipment AB.

MG-GB / MG-GBA

ACETYLENE | Gouging Tips

FEATURES :

- One-piece type
- For MG-242 & 1600B cutting torches for gouging purpose
- Gouging / Weld removal



MG-GB



NEW



MG-GBA



SPECIFICATIONS :

Model No.	Cutting Range (mm)	OXY. Pressure (BAR)	Ace. Pressure (BAR)	Length (mm)
MG-32GB	8	5.0	1.0	100
MG-48GB	11	6.0	1.0	100
MG-64GB	13	6.5	1.0	100

SPECIFICATIONS :

Model No.	Cutting Range (mm)	OXY. Pressure (BAR)	Ace. Pressure (BAR)	Length (mm)
MG-32GBA	8	5.0	1.0	100
MG-48GBA	11	6.0	1.0	100
MG-64GBA	13	6.5	1.0	100



A-GNM

ACETYLENE | Gouging Tips

FEATURES :

- One-piece type
For 1601, 1602, NM-250, 59-3, AG-262, AG-316, UNI-4 & AF-312 cutting torches & cutting attachments for gouging purpose
- Swaged and machined copper and insert tungsten to prevent wear and damage



A-GNM



SPECIFICATIONS :

Model No.	Cutting Range (mm)	OXY. Pressure (BAR)	Ace. Pressure (BAR)	Length (mm)
A-GNM 13	6-8	5.0	0.2-0.5	100
A-GNM 19	8-11	6.0	0.2-0.5	100
A-GNM 25	11-13	7.0	0.2-0.5	100

6290-GG, 6290-NFW / 6290-2NFFR

NATURAL GAS | Gouging Tips

FEATURES :

- Two-piece type
- For 62-3F, 42-4F & 142-F cutting torches for gouging purpose



6290-GG



6290-NFW



6290-2NFFR



SPECIFICATIONS :

Model	Cutting Range (mm)	OXY. Pressure (BAR)	Gas Pressure (BAR)	Length (mm)
6290-1GG	3 x 6	2.5	0.5	102
6290-2GG	5 x 10	3.5	0.5	102
6290-3GG	6 x 13	3.5	0.5	102
6290-4GG	10 x 19	4.0	0.5	102

SPECIFICATIONS :

Model	Cutting Range (mm)	OXY. Pressure (BAR)	Gas Pressure (BAR)	Length (mm)
6290-NFW	Rivet cutting	3.5	0.5	102

SPECIFICATIONS :

Model	Cutting Range (mm)	OXY. Pressure (BAR)	Gas Pressure (BAR)	Length (mm)
6290-2NFFR	Rivet cutting	3.0	0.5	55

PNME/PNM

BRITISH Style

Propane Cutting Tips

FEATURES :

- Two-piece type
- For 1601, 1602, NM-250, 59-3, AG-262, AG-316, UNI-4, AF-312, AG-511 & 198-32(BOC) machine cutting torch & cutting attachments



PNME



PNM



SPECIFICATIONS :

Model	Tip	Cutting Range (mm)	OXYGEN Pressure (BAR)	Propane Pressure (BAR)	Length (mm)
PNME-1	1/32"	1-5	1.5	0.5	92
PNME-2	3/64"	5-10	2.0	0.5	92
PNME-3	1/16"	10-30	2.5	1.0	92
PNME-4	5/64"	30-60	3.0	1.0	92
PNME-5	3/32"	60-100	3.5	1.5	92
PNME-6	1/8"	100-200	4.0	1.5	92

SPECIFICATIONS :

Model	Tip	Cutting Range (mm)	OXYGEN Pressure (BAR)	Propane Pressure (BAR)	Length (mm)
PNM-1	1/32"	1-5	1.5	0.5	75
PNM-2	3/64"	5-10	2.0	0.5	75
PNM-3	1/16"	10-30	2.5	1.0	75
PNM-4	5/64"	30-60	3.0	1.0	75
PNM-5	3/32"	60-100	3.5	1.5	75
PNM-6	1/8"	100-200	4.0	1.5	75



1-GPN

VICTOR® Style Propane Cutting Tips

FEATURES :

- Two-piece type
- For 1600, VH-212 & VH-2460 cutting torches & cutting attachments.



1-GPN



SPECIFICATIONS :

Model	Cutting Range (mm)	OXY. Pressure (BAR)	Propane Pressure (BAR)	Length (mm)
00-1-GPN	0.3-0.5	1	0.5	77
0-1-GPN	0.5-1	1	0.5	77
1-1-GPN	1-5	1.5	0.5	77
2-1-GPN	5-10	2.0	0.5	77
3-1-GPN	10-25	2.0	1.0	77
4-1-GPN	25-50	2.5	1.0	77
5-1-GPN	50-100	3.0	1.5	77
6-1-GPN	100-150	3.5	1.5	77

VICTOR is registered trademarks owned by VICTOR Equipment Company, a Thermadyne Company.

3-GPN

VICTOR® Style Propane Cutting Tips

FEATURES :

- Two-piece type
- For VM-222 & VM-202 cutting attachments



3-GPN



SPECIFICATIONS :

Model	Cutting Range (mm)	OXY. Pressure (BAR)	Propane Pressure (BAR)	Length (mm)
0-3-GPN	0.5-1	1	0.5	69
1-3-GPN	1-5	1.5	0.5	69
2-3-GPN	5-10	2.0	0.5	69
3-3-GPN	10-25	2.0	1.0	69
4-3-GPN	25-50	2.5	1.0	69

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44

CIGWELD® Style Propane Cutting Tips

FEATURES :

- Two-piece type
- For 1600B & MG-242 cutting torch & cutting attachment



44



SPECIFICATIONS :

Model	Cutting Range (mm)	OXY. Pressure (BAR)	Propane Pressure (BAR)	Length (mm)
44-6	1-5	1.5	0.5	73
44-8	5-10	1.5	0.5	73
44-10	10-20	2.0	1.0	73
44-12	20-50	2.5	1.0	73
44-15	50-80	2.5	1.0	73
44-20	80-100	3.0	1.5	73
44-24	100-150	3.5	1.5	73
44-32	150-200	4.0	1.5	73

CIGWELD is registered trademarks owned by CIGWELD Pty Ltd, a division of Thermadyne Company.

3690-P

HARRIS® Style Propane Cutting Tips

FEATURES :

- Two-piece type
- For 36-2 cutting attachment



3690-P



SPECIFICATIONS :

Model	Cutting Range (mm)	OXY. Pressure (BAR)	Propane Pressure (BaAR)	Length (mm)
3690-00P	1-6	1.5	0.5	38
3690-0P	6-13	2.0	0.5	38
3690-1P	13-25	2.5	1.0	38
3690-2P	25-75	3.0	1.0	38

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6290-NX / 6290-NFF

HARRIS® Style Propane Cutting Tips

FEATURES :

- Two-piece type
- For 62-3F, 42-4F, 142F, 198-2F, TH-98, 73-2F & 49-2F cutting torches, machine cutting torch & cutting attachments



6290-NX /
6290-NFF



SPECIFICATIONS :

Model	Cutting Range (mm)	OXY. Pressure (BAR)	Propane Pressure (BAR)	Length (mm)
6290-NX000	1-5	1.5	0.5	57
6290-NX00	5-10	1.5	0.5	57
6290-NX0	10-15	2.0	1.0	57
6290-NX1	15-25	2.5	1.0	57
6290-NX2	25-50	3.0	1.0	57
6290-NX3	50-100	3.5	1.0	57
6290-NX4	100-175	4.0	1.5	57
6290-NX5	175-250	5.0	1.5	57
6290-NX6	250-300	6.0	1.5	57

Model	Cutting Range (mm)	OXY. Pressure (BAR)	Propane Pressure (BAR)	Length (mm)
6290-NFF1	15-25	2.5	1.0	56
6290-NFF2	25-50	3.0	1.0	56
6290-NFF3	50-100	3.5	1.0	56
6290-NFF4	100-175	4.0	1.5	56
6290-NFF5	175-250	5.0	1.5	56
6290-NFF6	250-300	6.0	1.5	56

6290-VVC / 6290-NH

HARRIS® Style Propane Cutting Tips

FEATURES :

- Two-piece type
- For 62-3F, 42-4F, 142F, 198-2F, TH-98, 73-2F & 49-2F cutting torches, machine cutting torch & cutting attachments



6290-VVC



SPECIFICATIONS :

Model	Cutting Range (mm)	OXY. Pressure (BAR)	Propane Pressure (BAR)	Length (mm)
6290-5/0VVC	2-4	2.5	0.5-1	57
6290-4/0VVC	4-6	4.0	0.5-1	57
6290-3/0VVC	6-9	5.0	0.5-1	57
6290-00VVC	9-12.5	5.0	0.5-1	57
6290-0VVC	12.5-20	6.0	1-3	57
6290-0 1/2VVC	20-35	6.0	1-3	57
6290-1VVC	35-60	6.0	1-3	57
6290-1 1/2VVC	60-75	6.5	1-3	57
6290-2VVC	75-125	6.5	1-3	57
6290-2 1/2VVC	125-150	6.5	1-3	57
6290-3VVC	150-175	6.5	1-3	57
6290-4VVC	175-200	7.0	1-3	57
6290-5VVC	200-225	7.0	1-3	57
6290-5 1/2VVC	225-250	7.0	1-3	57

Model No.	Cutting Thickness (mm)	OXY. Pressure (Bar)	Propane Pressure (Bar)	Length (mm)
6290-5NH	225-250	7.0	1-2	57
6290-6NH	250-275	7.0	1-2	57
6290-7NH	275-300	7.0	3-5	57
6290-8NH	300-380	7.0	3-5	57



6290-NH





81021P

GLOOR® Style

Propane Cutting Tips

FEATURES :

- Two-piece type
- For 810202 cutting attachment



81021P



SPECIFICATIONS :

Model	Cutting Range (mm)	OXY. Pressure (BAR)	Propane Pressure (BAR)	Length (mm)
81021-1P	3-20	2.0	1.0	60
81021-2P	20-50	2.5	1.0	60
81021-3P	50-100	3.0	1.5	60

GLOOR is registered trademarks owned by Gloor Bros Ltd.

ST8-P

CHIYODA® Style

Propane Cutting Tips

FEATURES :

- Two-piece type
- For Strong-8, 42-8 & 42-9 cutting torches



ST8-P



SPECIFICATIONS :

Model	Cutting Range (mm)	OXY. Pressure (BAR)	Propane Pressure (BAR)	Length (mm)
ST8-1P	1-5	1.5	0.5	75
ST8-2P	5-10	1.5	0.5	75
ST8-3P	10-30	2.0	1.0	75
ST8-4P	30-50	2.5	1.0	75

CHIYODA is registered trademarks owned by CHIYODA Seiki Co., Ltd.

G1-P

FRENCH Style

Propane Cutting Tips

FEATURES :

- Two-piece type
- For 1606 & 1607 cutting torches



G1-P



SPECIFICATIONS :

Model	Cutting Range (mm)	OXY. Pressure (BAR)	Propane Pressure (BAR)	Length (mm)
G1-P-7/10	3-10	3.0-5.0	0.5-1.0	86
G1-P-10/10	10-25	5.0-7.0	0.5-1.0	86
G1-P-12/10	25-50	5.0-7.0	0.5-1.0	86
G1-P-16/10	50-80	5.0-7.0	0.5-1.0	86
G1-P-20/10	80-120	5.0-7.0	0.5-1.0	86
G1-P-25/10	120-200	5.0-7.0	0.5-1.0	86
G1-P-30/10	200-300	5.0-7.0	0.5-1.0	86



JVM-W

VICTOR® Style

OXY-ACETYLENE | Welding Tips

FEATURES :

- For VM-201 torch handle



SPECIFICATIONS :

Model	Tip Size	Length(mm)	Orifice(mm)
JVM-W000	000	108	0.5
JVM-W00	00	108	0.7
JVM-W0	0	122	0.9
JVM-W1	1	122	1.0
JVM-W2	2	147	1.2
JVM-W3	3	147	1.5
JVM-W4	4	173	1.9
JVM-W5	5	173	2.3

VICTOR is registered trademarks owned by VICTOR Equipment Company, a Thermadyne Company.

VH-W

VICTOR® Style

OXY-ACETYLENE | Welding Tips

FEATURES :

- For VH-211 torch handle



SPECIFICATIONS :

Model	Tip Size	Length(mm)	Orifice(mm)
VH-W000	000	156	0.6
VH -W00	00	156	0.7
VH -W0	0	156	0.8
VH -W1	1	186	0.9
VH -W2	2	206	1.0
VH -W3	3	236	1.5
VH -W4	4	266	1.8
VH -W5	5	296	2.2
VH -W6	6	296	2.5
VH -W7	7	395	3.2
VH -W8	8	395	3.4

VICTOR is registered trademarks owned by VICTOR Equipment Company, a Thermadyne Company.

VM-W

VICTOR® Style

OXY-ACETYLENE | Welding Tips

FEATURES :

- For VM-221 torch handle



SPECIFICATIONS :

Model	Tip Size	Length(mm)	Orifice(mm)
VM-W000	000	150	0.6
VM-W00	00	150	0.7
VM-W0	0	150	0.8
VM-W1	1	180	0.9
VM-W2	2	205	1.0
VM-W3	3	205	1.3
VM-W4	4	260	1.7
VM-W5	5	260	2.0
VM-W6	6	280	2.3
VM-W7	7	300	2.7

VICTOR is registered trademarks owned by VICTOR Equipment Company, a Thermadyne Company.

MG-W

CIGWELD® Style

OXY-ACETYLENE | Welding Tips

FEATURES :

- For MG-241 torch handle
- Recommend to use MG-243 mixer



SPECIFICATIONS :

Model	Tip Size	Length(mm)	Orifice(mm)
MG-W6	6	150	0.6
MG-W8	8	150	0.8
MG-W10	10	180	1.0
MG-W12	12	200	1.2
MG-W15	15	220	1.5
MG-W20	20	240	2.0
MG-W26	26	292	2.6
MG-W32	32	312	3.2

CIGWELD is registered trademarks owned by CIGWELD Pty Ltd, a division of Thermadyne Company.



HCW-W

HARRIS® Style

OXY-ACETYLENE | Welding Tips

FEATURES :

- For HC63-2, 43-2 & HC85-3 torch handles
Recommend to use E2-43 mixer for tip #0-10 &
- E-43 mixer for tip #13 & #15



SPECIFICATIONS :

Model	Tip Size	Length(mm)	Orifice(mm)
HCW-W0	0	114	0.5
HCW-W1	1	114	0.6
HCW-W2	2	114	0.7
HCW-W3	3	114	0.8
HCW-W4	4	149	0.9
HCW-W5	5	149	1.1
HCW-W6	6	182	1.3
HCW-W7	7	182	1.5
HCW-W8	8	200	1.7
HCW-W9	9	200	2.0
HCW-W10	10	200	2.4
HCW-W13	13	275	3.0
HCW-W15	15	307	3.2

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AGA-W

AGA® X21 Style

OXY-ACETYLENE | Welding Tips

FEATURES :

- For AG-281 torch handle



SPECIFICATIONS :

Model	Tip Size	Length(mm)	Orifice(mm)
AGA-W0(40 l/h)	0	160	0.6
AGA-W1(80 l/h)	1	190	0.7
AGA-W2(160 l/h)	2	205	1.0
AGA-W3(315 l/h)	3	230	1.2
AGA-W4(500 l/h)	4	250	1.5
AGA-W5(800 l/h)	5	270	2.0
AGA-W6(1000 l/h)	6	280	2.4
AGA-W7(1250 l/h)	7	320	2.7

AGA is registered trademark of The Control Equipment AB.

AF-W

AFROX® Style

OXY-ACETYLENE | Welding Tips

FEATURES :

- For AF-315 & UNI-3 torch handles
- Recommend to use AF-313 & UNI-5 mixers



SPECIFICATIONS :

Model	Tip Size	Length(mm)	Orifice(mm)
AF-W1	1	130	0.6
AF-W2	2	130	0.8
AF-W3	3	130	1.0
AF-W5	5	130	1.1
AF-W7	7	175	1.3
AF-W10	10	175	1.4
AF-W13	13	175	1.5
AF-W18	18	280	2.0
AF-W25	25	280	2.2
AF-W35	35	280	2.5
AF-W45	45	335	3.0
AF-W55	55	335	3.2
AF-W70	70	335	3.4
AF-W90	90	335	3.6

AFROX is registered trademarks owned by The Linde Group .



X21-W

AGA® X21 Style

OXY-ACETYLENE | Welding Tips

FEATURES :

- For AG-315 torch handle



SPECIFICATIONS :

Model	Tip Size	Length(mm)	Orifice(mm)
X21-W1(80 l/h)	1	215	0.7
X21-W2(160 l/h)	2	230	1.0
X21-W3(315 l/h)	3	250	1.2
X21-W4(500 l/h)	4	270	1.5
X21-W5(800 l/h)	5	290	2.0
X21-W6(1000 l/h)	6	310	2.4
X21-W7(1250 l/h)	7	330	2.7
X21-W8(1800 l/h)	8	380	3.0

AG-W

OXY-ACETYLENE | Welding Tips

FEATURES :

- For AG-261 & AF-411 torch handles
- Recommend to use AG-263 & AF-413 mixers



SPECIFICATIONS :

Model	Tip Size	Length(mm)	Orifice(mm)
AG-W1	1	130	0.5
AG-W2	2	120	0.7
AG-W3	3	130	0.9
AG-W5	5	120	1.0
AG-W7	7	130	1.2
AG-W10	10	120	1.4
AG-W13	13	130	1.5
AG-W18	18	180	1.9
AG-W25	25	180	2.1

AGB-W

AGA® X11 Style

OXY-ACETYLENE | Flexible Welding Tips

FEATURES :

- For AG-281 torch handle



SPECIFICATIONS :

Model	Tip Size	Length(mm)	Orifice(mm)
AGB-W1(80 l/h)	1	215	0.7
AGB-W2(160 l/h)	2	215	0.9
AGB-W3(315 l/h)	3	215	1.3
AGB-W4(500 l/h)	4	215	1.4
AGB-W5(800 l/h)	5	215	1.7
AGB-W6(1000 l/h)	6	215	2.0

AGC-W

AGA® X11 Style

OXY-ACETYLENE | Flexible Welding Tips

FEATURES :

- For AG-281 torch handle



SPECIFICATIONS :

Model	Tip Size	Length(mm)	Orifice(mm)
AGC-W1(80 l/h)	1	225	0.6
AGC-W 2(160 l/h)	2	225	0.9
AGC-W 3(315 l/h)	3	225	1.4
AGC-W 4(500 l/h)	4	225	1.6
AGC-W 5(800 l/h)	5	225	1.8
AGC-W 6(1000 l/h)	6	225	2.0

X22-W

AGA® X21 Style

OXY-ACETYLENE | Flexible Welding Tips

FEATURES :

- For AG-315 torch handle



SPECIFICATIONS :

Model	Tip Size	Length(mm)	Orifice(mm)
X22-W1(80 l/h)	1	230	0.7
X22-W 2(160 l/h)	2	230	0.9
X22-W 3(315 l/h)	3	230	1.3
X22-W 4(500 l/h)	4	230	1.5
X22-W 5(800 l/h)	5	230	1.7
X22-W 6(1000 l/h)	6	230	2.0
X22-W 7(1250 l/h)	7	320	3.0



5090

HARRIS® Style

OXY-ACETYLENE | Welding Tips

FEATURES :

- For 19-6 torch handle
- Recommend to use H-19-2E mixer



SPECIFICATIONS :

Model	Tip Size	Flow(l/h)	Metal Thickness(mm)
5090-0	0	45	0.2-0.5
5090-1	1	65	0.5-1.0
5090-3	3	160	1.0-2.0
5090-5	5	350	2.0-4.0
5090-6	6	500	4.0-6.0
5090-8	8	1000	6.0-9.0
5090-9	9	1500	9.0-14.0
5090-10	10	2000	14.0-20.0

1390

HARRIS® Style

OXY-ACETYLENE | Brazing Tips

FEATURES :

- For 19-6, 43-2, 50-10, HC63-2 & MG-241 torch handles
- Recommend to use D-50-C, 8593 & 8594 tip tubes



SPECIFICATIONS :

Model	Tip Size	Length (mm)	Metal Thickness(mm)	Orifice (mm)
1390-00	00	33	0.3	0.4
1390-0	0	33	0.4	0.5
1390-1	1	33	0.8	0.7
1390-2	2	33	1.2	0.9
1390-3	3	42	1.6	1.1
1390-4	4	42	2.4	1.3
1390-5	5	49	3.1	1.5
1390-6	6	49	4.8	1.7
1390-7	7	49	6.4	1.8
1390-8	8	49	8.0	2.0
1390-9	9	49	9.5	2.2
1390-10	10	49	12.7	2.5

1390N

HARRIS® Style

OXY-PROPANE | Brazing Tips

FEATURES :

- For 43-2, 50-10 & 63-2 torch handles
- Recommend to use D-50-C & 8593 tip tubes



SPECIFICATIONS :

Model	Tip Size	Length (mm)	Metal Thickness(mm)	Orifice (mm)
1390-00N	00	33	0.3	0.8
1390-0N	0	33	0.4	0.9
1390-1N	1	33	0.8	1.1
1390-2N	2	33	1.2	1.3
1390-3N	3	42	1.6	1.7
1390-4N	4	42	2.4	2.0
1390-5N	5	49	3.1	2.2
1390-6N	6	49	4.8	2.5
1390-7N	7	49	6.4	2.8
1390-8N	8	49	8.0	3.0
1390-9N	9	49	9.5	3.2
1390-10N	10	49	12.7	3.3



VM-H

VICTOR[®] Style

OXY-ACETYLENE | Heating Tips

FEATURES :

- Medium duty
- For VM-221 torch handle



SPECIFICATIONS :

Model	Tip Size	Length(mm)
VM-H4	4	310
VM-H6	6	310
VM-H8	8	310

VICTOR is registered trademarks owned by VICTOR Equipment Company, a Thermadyne Company.

VH-H

VICTOR[®] Style

OXY-ACETYLENE | Heating Tips

FEATURES :

- Heavy duty
- For VH-211 torch handle



SPECIFICATIONS :

Model	Tip Size	Length(mm)
VH-H4	4	375
VH-H6	6	375
VH-H8	8	375
VH-H10	10	375
VH-H12	12	375
VH-H15	15	375

VICTOR is registered trademarks owned by VICTOR Equipment Company, a Thermadyne Company.

VH-HG

VICTOR[®] Style

OXY-ACETYLENE | Heating Tips

FEATURES :

- Extra heavy duty
- For VH-211 torch handle



SPECIFICATIONS :

Model	Tip Holes	Length(mm)
VH-H8G	8	308.4
VH-H10G	12	444.5
VH-H12G	12	444.5
VH-H15G	16	444.5

VICTOR is registered trademarks owned by VICTOR Equipment Company, a Thermadyne Company.

J-63

HARRIS[®] Style

OXY-ACETYLENE | Heating Tips

FEATURES :

- Recommend to use E2-43 mixer for tip #1 & #2, E-43 mixer for tip #3~#5



SPECIFICATIONS :

Model	Tip Size	Length(mm)	Tube Material
J-63-1	1	280	Copper
J-63-2	2	280	
J-63-3	3	450	Stainless Steel
J-63-4	4	450	
J-63-5	5	450	

HARRIS is registered trademarks owned by HARRIS Calorific, Inc, a Lincoln Electric Company.



AGA-H

AGA[®] X11 Style

OXY-ACETYLENE | Heating Tips

FEATURES :

- For AG-281 torch handle



SPECIFICATIONS :

Model	Tip Size	Length(mm)
AGA-H1(500 l/h)	2A	230
AGA-H2(800 l/h)	4A	230
AGA-H3(1000 l/h)	6A	230

AGA is registered trademark of The Control Equipment AB.

X21-H / X21-HP

AGA[®] X21 Style

OXY-ACETYLENE | Heating Tips

FEATURES :

- For AG-315 torch handle



SPECIFICATIONS :

Model	Tip Size	Length(mm)	GAS
X21-H1(1000 l/h)	6A	280	OXY-ACETYLENE
X21-H2(2500 l/h)	8A	670	
X21-H3(5000 l/h)	10A	670	
X21-H1P(1000 l/h)	1H	280	OXY-PROPANE
X21-H2P(2500 l/h)	2H	670	
X21-H3P(5000 l/h)	3H	670	
X21-H4P(7000 l/h)	4H	670	

AGA is registered trademark of The Control Equipment AB.

MG-H

CIGWELD[®] Style

OXY-ACETYLENE | Heating Tips

FEATURES :

- For MG-241 torch handle
- Recommend to use MG-243 mixer



SPECIFICATIONS :

Model	Thread (mm)
MG-H	3/8"-26N
MG-HA	7/16"-27N

2290-SHA

CIGWELD[®] Style

OXY-ACETYLENE | Heating Tips

FEATURES :

- Recommend to use MG-MIH mixer



SPECIFICATIONS :

Model	Thread (mm)
2290-SHA1	1/2"-20N
2290-SHA2	1/2"-20N

CIGWELD is registered trademarks owned by CIGWELD Pty Ltd, a division of Thermadyne Company.

2290-H

HARRIS[®] Style

OXY-PROPANE | Heating Tips

FEATURES :

- For 43-2 torch handle
- Recommend to use F-43 mixer



SPECIFICATIONS :

Model	Pressure (Kg/cm ²)		Flow (l/h)	
	Oxygen	Propane	Oxygen	Propane
2290-1H	1-2	1/2	4.000-7.000	1.000-2.000
2290-2H	2-3	1/2	5.900-12.800	1.500-3.200
2290-3H	2-5	1	8.500-22.900	2.200-5.700
2290-4H	3-6	1	14.200-28.400	3.600-7.100
2290-5H	4-8	1-2	17.000-39.700	4.300-10.000

HARRIS is registered trademarks owned by HARRIS Calorific, Inc, a Lincoln Electric Company.

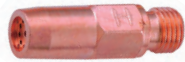


1390-H / 1390-HA

Heating Tips

FEATURES :

- For 19-6, 43-2 & HC63-2 torch handle
- Recommend to use D-50-C & 8593 tip tubes



1390-H



1390-HA

OXY-PROPANE SPECIFICATIONS :

Model	Length (mm)	Thread(mm)	Material
1390-H	35	3/8"-24N	Brass
1390-H1	35	3/8"-24N	Copper

OXY-ACETYLENE SPECIFICATIONS :

Model	Length (mm)	Thread(mm)	Material
1390-HA	35	3/8"-24N	Brass
1390-HA1	35	3/8"-24N	Copper

2393 / 2395

HARRIS[®] Style

Tip tubes

FEATURES :

- For 2290-H & 2290-SHA heating tips
- Recommend to use F-43 mixer (Propane) & E-43 mixer (Acetylene)



SPECIFICATIONS :

Model	Tip Size	Length(mm)	Material	Style
2393-275L	1	275	Copper	HARRIS
2393-420L	2	420		
2393-720L	3	720		
2393-915L	4	915		
2393-275LS	1	275	Stainless Steel	HARRIS
2393-420LS	2	420		
2393-720LS	3	720		
2393-915LS	4	915		

SPECIFICATIONS :

Model	Tip Size	Length(mm)	Material	Style
2395-450LS	1	450	Stainless steel	CIGWELD
2395-700LS	2	700		
2395-735LS	3	735		

D-50-C, 8593 / 8594

HARRIS[®] Style

Tip tubes

FEATURES :

- For 19-6, 43-2 & HC63-2 torch handle
- Recommend to use E-43, MG-243, H-19-2E & H-19-2S mixers



D-50-C / 8593



8594

SPECIFICATIONS :

Model	Length(mm)	Thread
D-50-C	134	5/16"-27N

SPECIFICATIONS :

Model	Length(mm)	Thread
8593	134	M9-26N

SPECIFICATIONS :

Model	Length(mm)	Thread
8594	147	3/8"-26N

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FLASHBACK ARRESTORS





88-3FGR / 88-3FGL

Reverse Flow Check Valves

FEATURES :

- Reverse flow check valves for torch
- Helps prevent dangerous reverse flow mixing of gas in hose and regulators

SPECIFICATIONS :

Model		Inlet	Outlet
Oxygen	Fuel Gas		
88-3FGR	88-3FGL	9/16" -18N	9/16" -18N
88-3CTR	88-3CTL	M16 x 1.5	M16 x 1.5
88-3GBR2	88-3GBL2	G 3/8	G 3/8
88-3AR1	88-3AL1	5/8" -18N	5/8" -18N
88-3GBR1	88-3GBL1	G 1/4	G 1/4
88-6FGR	88-6FGL	3/8" -24N	3/8" -24N



88-3FGR



88-3FGL

89-3FGR / 89-3FGL

Reverse Flow Check Valves

FEATURES :

- Reverse flow check valves for regulator
- Helps prevent dangerous reverse flow mixing of gas in hose and regulators

SPECIFICATIONS :

Model		Inlet	Outlet
Oxygen	Fuel Gas		
89-3FGR	89-3FGL	9/16" -18N	9/16" -18N
89-3CTR	89-3CRL	M16 x 1.5	M16 x 1.5
89-3GBR2	89-3GBL2	G 3/8	G 3/8
89-3AR1	89-3AL1	5/8" -18N	5/8" -18N
89-3GBR1	89-3GBL1	G 1/4	G 1/4



89-3FGR



89-3FGL

90-3FGR / 90-3FGL

AGA® X21 Style

Reverse Flow Check Valves

FEATURES :

- Reverse flow check valves torch for torch
- Helps prevent dangerous reverse flow mixing of gas in gas in hose and regulators
- Attached with nut.
- Stem diameter 5/16"(8mm).

SPECIFICATIONS :

Model		Inlet	Outlet
Oxygen	Fuel Gas		
90-3FGR	90-3FGL	G 3/8	G 3/8



90-3FGR



90-3FGL

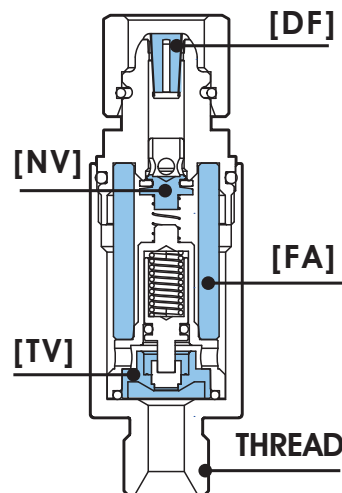
FLASHBACK ARRESTORS

With the following functions, flashback arrestors can stop backfire and prevent accidents.

Using IOXYGEN flashback arrestors could effectively enhance workplace safety and provide much more secure surroundings for users.

FEATURES :

- **Non-return valve [NV]**
Prevent gas returning back to the upstream of the flashback arrestor.
- **Dust filter [DF]**
Protect flashback arrestors free from dirt and grease.
- **Flame arrestor [FA]**
Repeatedly arrest flames by a sintered stainless steel element.
- **Thermal cut-off valve [TV]**
Automatically cut off gas supply in the event of uncommon internal high temperature or overheating.
- **Thread**
In accordance with EN 560 and ISO 3253, 9/16" - 18N, G 3/8, 5/8" -18N, G 1/4 and so on, are available.



HB188-UL / HB288-UL

One Piece Type Flashback Arrestors

FEATURES :

- Non-return Valve [NV]
- Flame Arrestor [FA]
- Dust filter [DF]
- HB188-UL for Torch (Dimensions:Φ21×51.8mm)
- HB288-UL for Regulator (Dimensions:Φ21×59mm)
- Max. working pressure: OX : 1.5 bar (218 psi)
AC : 1.0 bar (15 psi)
LPG: 3.5 bar (50 psi)
- For use with MPS-GAS, max pressure 1.5 bar (22 psi)
- For use with Hydrogen, Methane and Natural Gas, max pressure 3.5 bar (50 psi)

SPECIFICATIONS :

Model	Gas	Max. Flow (l/h)	Inlet	Outlet
HB188-R	Oxygen	7000	9/16"-18 RH	9/16"-18 RH
HB188-L	Fuel Gas	2600	9/16"-18 LH	9/16"-18 LH
HB188-AR	Oxygen	7000	5/8"-18 RH	5/8"-18 RH
HB188-AL	Fuel Gas	2600	5/8"-18 LH	5/8"-18 LH
HB188-RB	Oxygen	7000	M16x1.5 RH	M16x1.5 RH
HB188-LB	Fuel Gas	2600	M16x1.5 LH	M16x1.5 LH
HB188-RGB	Oxygen	7000	G 3/8 RH	G 3/8 RH
HB188-LGB	Fuel Gas	2600	G 3/8 LH	G 3/8 LH
HB188-RA	Oxygen	7000	G 1/4 RH	G 1/4 RH
HB188-LA	Fuel Gas	2600	G 1/4 LH	G 1/4 LH

CERTIFICATIONS :

UL listed



HB188-UL

HB288-UL

Model	Gas	Max. Flow (l/h)	Inlet	Outlet
HB288-R	Oxygen	7000	9/16"-18 RH	9/16"-18 RH
HB288-L	Fuel Gas	2600	9/16"-18 LH	9/16"-18 LH
HB288-AR	Oxygen	7000	5/8"-18 RH	5/8"-18 RH
HB288-AL	Fuel Gas	2600	5/8"-18 LH	5/8"-18 LH
HB288-RB	Oxygen	7000	M16x1.5 RH	M16x1.5 RH
HB288-LB	Fuel Gas	2600	M16x1.5 LH	M16x1.5 LH
HB288-RGB	Oxygen	7000	G 3/8 RH	G 3/8 RH
HB288-LGB	Fuel Gas	2600	G 3/8 LH	G 3/8 LH
HB288-RA	Oxygen	7000	G 1/4 RH	G 1/4 RH
HB288-LA	Fuel Gas	2600	G 1/4 LH	G 1/4 LH

FLASHBACK ARRESTORS

H188-UL / H288-UL

Nickel-plated Type Flashback Arrestors

FEATURES :

- Nickel plating improves surface hardness and corrosion resistance
- 316L stainless steel filter protects flashback arrestor from dirt and dust
- Non-return Valve [NV]
- Flame Arrestor [FA]
- Dust filter [DF]
- H188-UL for Torch (Dimensions: Φ 21 × 70.3mm)
- H288-UL for Regulator (Dimensions: Φ 21 × 78.4mm)
- Color code sets for Oxygen (Green) and Fuel Gas (Red).
- Max. working pressure: OX : 1.0 bar (140 psi)
AC : 1.0 bar (15 psi)
LPG: 3.5 bar (50 psi)

CERTIFICATIONS :

UL listed



H188-UL

H288-UL

SPECIFICATIONS :

Model	Gas	Max. Flow (l/h)	Inlet	Outlet
H188-R	Oxygen	7000	9/16"-18 RH	9/16"-18 RH
H188-L	Fuel Gas	2600	9/16"-18 LH	9/16"-18 LH
H188-AR	Oxygen	7000	5/8"-18 RH	5/8"-18 RH
H188-AL	Fuel Gas	2600	5/8"-18 LH	5/8"-18 LH
H188-RB	Oxygen	7000	M16x1.5 RH	M16x1.5 RH
H188-LB	Fuel Gas	2600	M16x1.5 LH	M16x1.5 LH
H188-RGB	Oxygen	7000	G 3/8 RH	G 3/8 RH
H188-LGB	Fuel Gas	2600	G 3/8 LH	G 3/8 LH
H188-RA	Oxygen	7000	G 1/4 RH	G 1/4 RH
H188-LA	Fuel Gas	2600	G 1/4 LH	G 1/4 LH

Model	Gas	Max. Flow (l/h)	Inlet	Outlet
H288-R	Oxygen	7000	9/16"-18 RH	9/16"-18 RH
H288-L	Fuel Gas	2600	9/16"-18 LH	9/16"-18 LH
H288-AR	Oxygen	7000	5/8"-18 RH	5/8"-18 RH
H288-AL	Fuel Gas	2600	5/8"-18 LH	5/8"-18 LH
H288-RB	Oxygen	7000	M16x1.5 RH	M16x1.5 RH
H288-LB	Fuel Gas	2600	M16x1.5 LH	M16x1.5 LH
H288-RGB	Oxygen	7000	G 3/8 RH	G 3/8 RH
H288-LGB	Fuel Gas	2600	G 3/8 LH	G 3/8 LH
H288-RA	Oxygen	7000	G 1/4 RH	G 1/4 RH
H288-LA	Fuel Gas	2600	G 1/4 LH	G 1/4 LH



HB188 / HB288

Non-plated Type Flashback Arrestors

FEATURES :

- Non-return Valve [NV]
- Flame Arrestor [FA]
- Dust filter [DF]
- HB188 for Torch (Dimensions:Φ20×51.8mm)
- HB288 for Regulator (Dimensions:Φ20×59mm)
- Max. working pressure: OX : 15 bar (218 psi)
AC :1.5 bar (21 psi)
LPG:3.5 bar (50 psi)

CERTIFICATIONS :

Conform with EN 730-1



HB188

HB288

SPECIFICATIONS :

Model	Gas	Max. Flow (l/h)	Inlet	Outlet
HB188-R	Oxygen	7000	9/16"-18 RH	9/16"-18 RH
HB188-L	Fuel Gas	2600	9/16"-18 LH	9/16"-18 LH
HB188-AR	Oxygen	7000	5/8"-18 RH	5/8"-18 RH
HB188-AL	Fuel Gas	2600	5/8"-18 LH	5/8"-18 LH
HB188-RB	Oxygen	7000	M16x1.5 RH	M16x1.5 RH
HB188-LB	Fuel Gas	2600	M16x1.5 LH	M16x1.5 LH
HB188-RGB	Oxygen	7000	G 3/8 RH	G 3/8 RH
HB188-LGB	Fuel Gas	2600	G 3/8 LH	G 3/8 LH
HB188-RA	Oxygen	7000	G 1/4 RH	G 1/4 RH
HB188-LA	Fuel Gas	2600	G 1/4 LH	G 1/4 LH

Model	Gas	Max. Flow (l/h)	Inlet	Outlet
HB288-R	Oxygen	7000	9/16"-18 RH	9/16"-18 RH
HB288-L	Fuel Gas	2600	9/16"-18 LH	9/16"-18 LH
HB288-AR	Oxygen	7000	5/8"-18 RH	5/8"-18 RH
HB288-AL	Fuel Gas	2600	5/8"-18 LH	5/8"-18 LH
HB288-RB	Oxygen	7000	M16x1.5 RH	M16x1.5 RH
HB288-LB	Fuel Gas	2600	M16x1.5 LH	M16x1.5 LH
HB288-RGB	Oxygen	7000	G 3/8 RH	G 3/8 RH
HB288-LGB	Fuel Gas	2600	G 3/8 LH	G 3/8 LH
HB288-RA	Oxygen	7000	G 1/4 RH	G 1/4 RH
HB288-LA	Fuel Gas	2600	G 1/4 LH	G 1/4 LH

H188 / H288

Non-plated Type Flashback Arrestors

FEATURES :

- Non-return Valve [NV]
- Flame Arrestor [FA]
- Dust filter [DF]
- H188 for Torch (Dimensions:Φ20×70.3mm)
- H288 for Regulator (Dimensions:Φ20×78.4mm)
- Max. working pressure: OX : 10 bar (140 psi)
AC :1.5 bar (21 psi)
LPG:3.5 bar (50 psi)

CERTIFICATIONS :

Conform with EN 730-1



H188

H288

SPECIFICATIONS :

Model	Gas	Max. Flow (l/h)	Inlet	Outlet
H188-R	Oxygen	7000	9/16"-18 RH	9/16"-18 RH
H188-L	Fuel Gas	2600	9/16"-18 LH	9/16"-18 LH
H188-AR	Oxygen	7000	5/8"-18 RH	5/8"-18 RH
H188-AL	Fuel Gas	2600	5/8"-18 LH	5/8"-18 LH
H188-RB	Oxygen	7000	M16x1.5 RH	M16x1.5 RH
H188-LB	Fuel Gas	2600	M16x1.5 LH	M16x1.5 LH
H188-RGB	Oxygen	7000	G 3/8 RH	G 3/8 RH
H188-LGB	Fuel Gas	2600	G 3/8 LH	G 3/8 LH
H188-RA	Oxygen	7000	G 1/4 RH	G 1/4 RH
H188-LA	Fuel Gas	2600	G 1/4 LH	G 1/4 LH

Model	Gas	Max. Flow (l/h)	Inlet	Outlet
H288-R	Oxygen	7000	9/16"-18 RH	9/16"-18 RH
H288-L	Fuel Gas	2600	9/16"-18 LH	9/16"-18 LH
H288-AR	Oxygen	7000	5/8"-18 RH	5/8"-18 RH
H288-AL	Fuel Gas	2600	5/8"-18 LH	5/8"-18 LH
H288-RB	Oxygen	7000	M16x1.5 RH	M16x1.5 RH
H288-LB	Fuel Gas	2600	M16x1.5 LH	M16x1.5 LH
H288-RGB	Oxygen	7000	G 3/8 RH	G 3/8 RH
H288-LGB	Fuel Gas	2600	G 3/8 LH	G 3/8 LH
H288-RA	Oxygen	7000	G 1/4 RH	G 1/4 RH
H288-LA	Fuel Gas	2600	G 1/4 LH	G 1/4 LH

H388 / H488 / H588 / H688

Cartridge Type Flashback Arrestors

CERTIFICATIONS :
Conform with EN 730-1

FEATURES :

- Non-return Valve [NV]
- Flame Arrestor [FA]
- Dust filter [DF]
- H388 for Hose (Dimensions:Φ20×112mm)
- H488 for Torch (Dimensions:Φ20×86mm)
- H588 for Torch (Dimensions:Φ20×87mm)
- H688 for Regulator (Dimensions:Φ20×100mm)
- Max. working pressure: OX : 10 bar (140 psi)
AC : 1.5 bar (21 psi)
LPG: 3.5 bar (50 psi)



FLASHBACK ARRESTORS



H488



H388

SPECIFICATIONS :

Model	Gas	Max. Flow (l/h)	Inlet	Outlet
H488-R	Oxygen	7000	Φ 8mm Hose	G 1/4 RH
H488-L	Fuel Gas	2600	Φ 10mm Hose	G 3/8 LH

SPECIFICATIONS :

Model	Gas	Max. Flow (l/h)	Inlet	Outlet
H388-R	Oxygen	7000	Φ 8mm Hose	Φ 8mm Hose
H388-L	Fuel Gas	2600	Φ 8mm Hose	Φ 8mm Hose



H588



H688

SPECIFICATIONS :

Model	Gas	Max. Flow (l/h)	Inlet	Outlet
H588-R	Oxygen	7000	Φ 8mm Hose	9/16"-18 RH
H588-L	Fuel Gas	2600	Φ 8mm Hose	9/16"-18 LH
H588-AR	Oxygen	7000	Φ 8mm Hose	5/8"-18 RH
H588-AL	Fuel Gas	2600	Φ 8mm Hose	5/8"-18 LH
H588-RB	Oxygen	7000	Φ 8mm Hose	M16x1.5 RH
H588-LB	Fuel Gas	2600	Φ 8mm Hose	M16x1.5 LH
H588-RGB	Oxygen	7000	Φ 8mm Hose	G 3/8 RH
H588-LGB	Fuel Gas	2600	Φ 8mm Hose	G 3/8 LH
H588-RA	Oxygen	7000	Φ 8mm Hose	G 1/4 RH
H588-LA	Fuel Gas	2600	Φ 8mm Hose	G 1/4 LH

SPECIFICATIONS :

Model	Gas	Max. Flow (l/h)	Inlet	Outlet
H688-R	Oxygen	7000	9/16"-18 RH	Φ 8mm Hose
H688-L	Fuel Gas	2600	9/16"-18 LH	Φ 8mm Hose
H688-AR	Oxygen	7000	5/8"-18 RH	Φ 8mm Hose
H688-AL	Fuel Gas	2600	5/8"-18 LH	Φ 8mm Hose
H688-RB	Oxygen	7000	M16x1.5 RH	Φ 8mm Hose
H688-LB	Fuel Gas	2600	M16x1.5 LH	Φ 8mm Hose
H688-RGB	Oxygen	7000	G 3/8 RH	Φ 8mm Hose
H688-LGB	Fuel Gas	2600	G 3/8 LH	Φ 8mm Hose
H688-RA	Oxygen	7000	G 1/4 RH	Φ 8mm Hose
H688-LA	Fuel Gas	2600	G 1/4 LH	Φ 8mm Hose



B288

Automatic Type Flashback Arrestors

CERTIFICATIONS :
Conform with EN 730-1

FEATURES :

- Non-return Valve [NV]
- Flame Arrestor [FA]
- Dust filter [DF]
- Temperature sensitive cut-off valve [TV]
- B288 For Regulator (Dimensions: $\Phi 25.7 \times 81$ mm)
- Max. working pressure: OX : 1.0 bar (140 psi)
AC : 1.5 bar (21 psi)
LPG: 3.5 bar (50 psi)



B288

SPECIFICATIONS :

Model	Gas	Max. Flow (l/h)	Inlet	Outlet
B288-R	Oxygen	7000	9/16"-18 RH	9/16"-18 RH
B288-L	Fuel Gas	2600	9/16"-18 LH	9/16"-18 LH
B288-AR	Oxygen	7000	5/8"-18 RH	5/8"-18 RH
B288-AL	Fuel Gas	2600	5/8"-18 LH	5/8"-18 LH
B288-RB	Oxygen	7000	M16x1.5 RH	M16x1.5 RH
B288-LB	Fuel Gas	2600	M16x1.5 LH	M16x1.5 LH

Model	Gas	Max. Flow (l/h)	Inlet	Outlet
B288-RGB	Oxygen	7000	G 3/8 RH	G 3/8 RH
B288-LGB	Fuel Gas	2600	G 3/8 LH	G 3/8 LH
B288-RA	Oxygen	7000	G 1/4 RH	G 1/4 RH
B288-LA	Fuel Gas	2600	G 1/4 LH	G 1/4 LH

HA188 / HA288 NEW

Two-piece Type Flashback Arrestors

CERTIFICATIONS :
Conform with EN 730-1

FEATURES :

- Non-return Valve [NV]
- Flame Arrestor [FA]
- Dust filter [DF]
- HA188 for Torch (Dimensions: $\Phi 21 \times 59.1$ mm)
- HA288 for Regulator (Dimensions: $\Phi 21 \times 64.4$ mm)
- Economical type
- Swivel nut for easy connection
- Max. working pressure: OX : 1.0 bar (140 psi)
AC : 1.5 bar (21 psi)
LPG: 3.5 bar (50 psi)



HA188

HA288

SPECIFICATIONS :

Model	Gas	Max. Flow (l/h)	Inlet	Outlet
HA188-R	Oxygen	7000	9/16"-18 RH	9/16"-18 RH
HA188-L	Fuel Gas	2600	9/16"-18 LH	9/16"-18 LH
HA188-AR	Oxygen	7000	5/8"-18 RH	5/8"-18 RH
HA188-AL	Fuel Gas	2600	5/8"-18 LH	5/8"-18 LH
HA188-RB	Oxygen	7000	M16x1.5 RH	M16x1.5 RH
HA188-LB	Fuel Gas	2600	M16x1.5 LH	M16x1.5 LH
HA188-RGB	Oxygen	7000	G 3/8 RH	G 3/8 RH
HA188-LGB	Fuel Gas	2600	G 3/8 LH	G 3/8 LH
HA188-RA	Oxygen	7000	G 1/4 RH	G 1/4 RH
HA188-LA	Fuel Gas	2600	G 1/4 LH	G 1/4 LH

Model	Gas	Max. Flow (l/h)	Inlet	Outlet
HA288-R	Oxygen	7000	9/16"-18 RH	9/16"-18 RH
HA288-L	Fuel Gas	2600	9/16"-18 LH	9/16"-18 LH
HA288-AR	Oxygen	7000	5/8"-18 RH	5/8"-18 RH
HA288-AL	Fuel Gas	2600	5/8"-18 LH	5/8"-18 LH
HA288-RB	Oxygen	7000	M16x1.5 RH	M16x1.5 RH
HA288-LB	Fuel Gas	2600	M16x1.5 LH	M16x1.5 LH
HA288-RGB	Oxygen	7000	G 3/8 RH	G 3/8 RH
HA288-LGB	Fuel Gas	2600	G 3/8 LH	G 3/8 LH
HA288-RA	Oxygen	7000	G 1/4 RH	G 1/4 RH
HA288-LA	Fuel Gas	2600	G 1/4 LH	G 1/4 LH

Quick Action Coupling with Built-in Flashback Arrestor NEW

CERTIFICATIONS :

Conform with EN 730-1 / EN 561 / ISO 7289 / ISO 5172

FEATURES :

- Dust filter protects the device free from dirt and grease (DF)
- Non-return valve prevents gas returning back to the upstream of the device (NV)
- Flame arrestor repeatedly arrests flames by a sintered stainless steel element (FA)
- Robust brass construction provides durability
- Quick and easy connection / disconnection with equipment



QF188

QF288

QF388

QF488

TECHNICAL DATA :

Gas Types	OXYGEN (O)	ACETYLENE (A)	PROPANE (P)	HYDROGEN (H)
Working Pressure	1.00 MPa / 10 bar / 140 psi	0.15 MPa / 1.5 bar / 21 psi	0.35 MPa / 3.5 bar / 50 psi	0.35 MPa / 3.5 bar / 50 psi
Ambient/Working Temperature	- 20°C ~ 70°C			
Threads (According to EN 560)	G1/4 RH G3/8 RH M16 x 1.5 RH 9/16"-18 RH 5/8"-18 RH		G1/4 LH G3/8 LH M16 x 1.5 LH 9/16"-18 LH 5/8"-18 LH	

SPECIFICATIONS :

Model	Description	Connection Type	Type	Diameter	Length	Weight
QF188-R	Male	CP Thread 9/16"-18 RH	For Torch	21mm	73.5mm	103g
QF188-L		CP Thread 9/16"-18 LH	For Torch	21mm	73.5mm	103g
QF188-RGB		CP Thread G3/8 RH	For Torch	21mm	73.5mm	103g
QF188-LGB		CP Thread G3/8 LH	For Torch	21mm	73.5mm	103g
QF288-R	Female	QAC Thread 9/16"-18 RH	For Regulator	21mm	83.5mm	150g
QF288-L		QAC Thread 9/16"-18 LH	For Regulator	21mm	83.5mm	150g
QF288-RGB		QAC Thread G3/8 RH	For Regulator	21mm	83.5mm	150g
QF288-LGB		QAC Thread G3/8 LH	For Regulator	21mm	83.5mm	150g
QF388-R6		QAC Hose connection Ø1/4" (6mm)	For Hose	21mm	90.5mm	120g
QF388-L6		QAC Hose connection Ø1/4" (6mm)	For Hose	21mm	90.5mm	120g
QF388-R8		QAC Hose connection Ø5/16" (8mm)	For Hose	21mm	90.5mm	120g
QF388-L8		QAC Hose connection Ø5/16" (8mm)	For Hose	21mm	90.5mm	120g
QF388-R9.5	QAC Hose connection Ø3/8" (9.5mm)	For Hose	21mm	90.5mm	120g	
QF388-L9.5	QAC Hose connection Ø3/8" (9.5mm)	For Hose	21mm	90.5mm	120g	
QF488-RC	QAC Thread 9/16"-18 RH	For Hose / Torch	21mm	75.5mm	120g	
QF488-LC	QAC Thread 9/16"-18 LH	For Hose / Torch	21mm	75.5mm	120g	
QF488-RGBC	QAC Thread G3/8 RH	For Hose / Torch	21mm	75.5mm	120g	
QF488-LGBC	QAC Thread G3/8 LH	For Hose / Torch	21mm	75.5mm	120g	



Quick Action Coupling

CERTIFICATIONS :

Conform with EN 561 / ISO 7289

FEATURES :

- Durable brass construction



Q388-R8



Q188-RGB



Q388-A06

SPECIFICATIONS :

Model	Description	Connection Type	Type
Q388-R6		CP Hose connectionØ1/4" (6mm)	For Hose
Q388-L6		CP Hose connectionØ1/4" (6mm)	
Q388-R8		CP Hose connectionØ5/16" (8mm)	
Q388-L8		CP Hose connectionØ5/16" (8mm)	
Q388-R9.5		CP Hose connectionØ3/8" (9.5mm)	
Q388-L9.5		CP Hose connectionØ3/8" (9.5mm)	
Q188-R	Male	CP Thread 9/16"-18 RH	For Torch
Q188-L		CP Thread 9/16"-18 LH	
Q188-AR		CP Thread 5/8"-18 RH	
Q188-AL		CP Thread 5/8"-18 LH	
Q188-RA		CP Thread G1/4 RH	
Q188-LA		CP Thread G1/4 LH	
Q188-RB		CP Thread M16X1.5 RH	
Q188-LB		CP Thread M16X1.5 LH	
Q188-RGB		CP Thread G3/8 RH	
Q188-LGB		CP Thread G3/8 LH	
Q388-A01		CP Thread 9/16"-18 RH	For Regulator
Q388-A06		CP Thread 9/16"-18 LH	
Q388-A04		CP Thread UNF5/8"-18 RH	
Q388-A09		CP Thread UNF5/8"-18 LH	
Q388-A05		CP Thread G1/4 RH	
Q388-A10		CP Thread G1/4 LH	
Q388-A03		CP Thread M16X1.5 RH	
Q388-A08		CP Thread M16X1.5 LH	
Q388-A02		CP Thread G3/8 RH	
Q388-A07		CP Thread G3/8 LH	

SPECIFICATIONS :

Model	Description	Connection Type	Type
Q188-R6		QAC Hose connectionØ1/4" (6mm)	For Hose or Torch
Q188-L6		QAC Hose connectionØ1/4" (6mm)	
Q188-R8		QAC Hose connectionØ5/16" (8mm)	
Q188-L8		QAC Hose connectionØ5/16" (8mm)	
Q188-R9.5		QAC Hose connectionØ3/8" (9.5mm)	
Q188-L9.5		QAC Hose connectionØ3/8" (9.5mm)	
Q288-R	Female	QAC Thread 9/16"-18 RH	For Regulator
Q288-L		QAC Thread 9/16"-18 LH	
Q288-AR		QAC Thread 5/8"-18 RH	
Q288-AL		QAC Thread 5/8"-18 LH	
Q288-RA		QAC Thread G1/4 RH	
Q288-LA		QAC Thread G1/4 LH	
Q288-RB		QAC Thread M16X1.5 RH	
Q288-LB		QAC Thread M16X1.5 LH	
Q288-RGB		QAC Thread G3/8 RH	
Q288-LGB		QAC Thread G3/8 LH	
Q188-RC		QAC Thread 9/16"-18 RH	For Hose or Torch
Q188-LC		QAC Thread 9/16"-18 LH	
Q188-ARC		QAC Thread 5/8"-18 RH	
Q188-ALC		QAC Thread 5/8"-18 LH	
Q188-RAC		QAC Thread G1/4 RH	
Q188-LAC		QAC Thread G1/4 LH	
Q188-RBC		QAC Thread M16X1.5 RH	
Q188-LBC		QAC Thread M16X1.5 LH	
Q188-RGBC		QAC Thread G3/8 RH	
Q188-LGBC		QAC Thread G3/8 LH	



Q188-R8



Q288-RGB

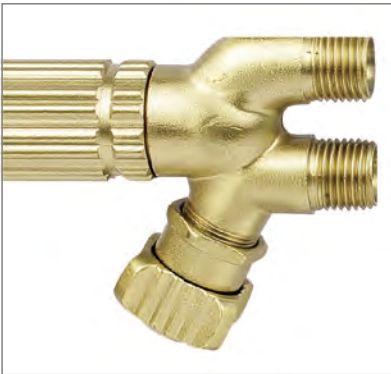


Q188-RGBC

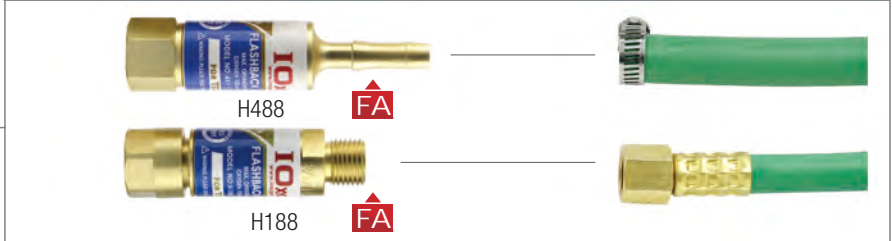
Graphic Overview of Connection

 = Flashback Arrestor

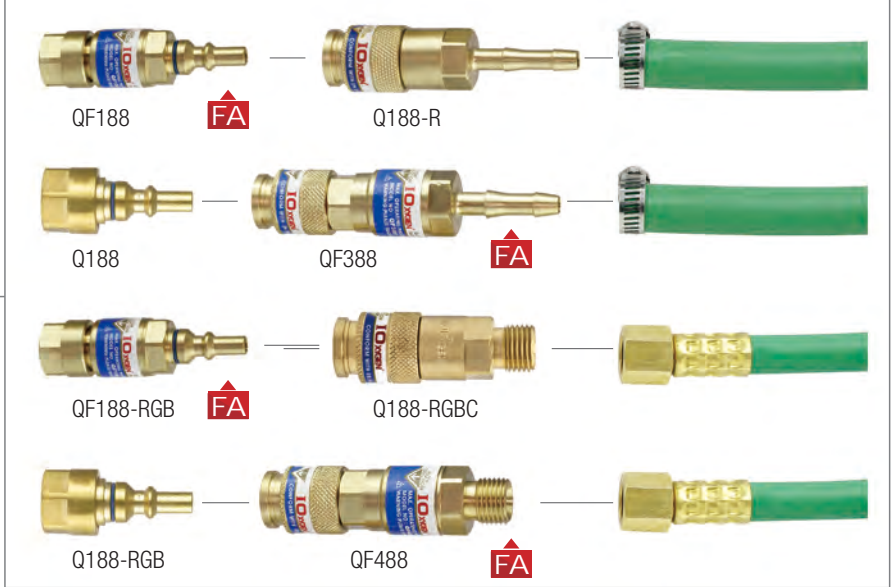
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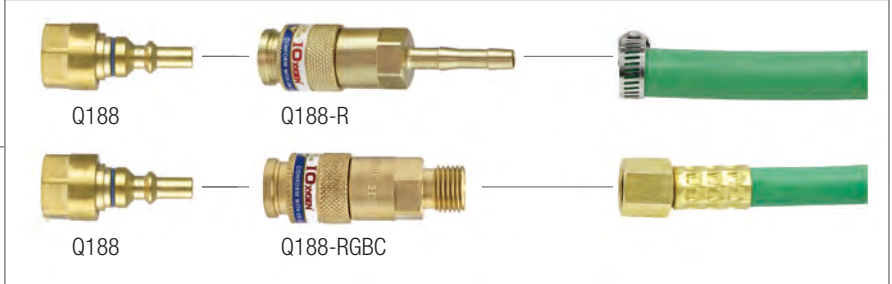
Flashback Arrestor



Quick Action Coupling with Built-in Flashback Arrestor



Quick Action Coupling



FOR HOSE TO HOSE

Flashback Arrestor



Quick Action Coupling with Built-in Flashback Arrestor



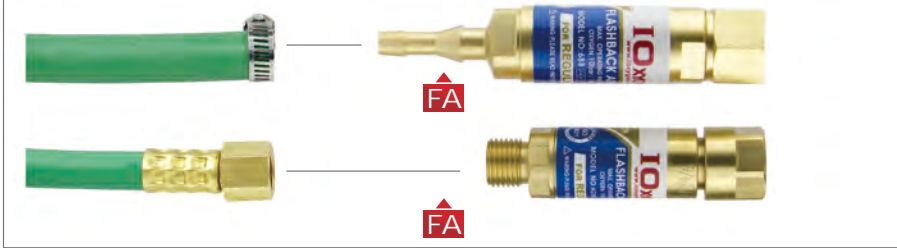
Quick Action Coupling



QUICK ACTION COUPLING

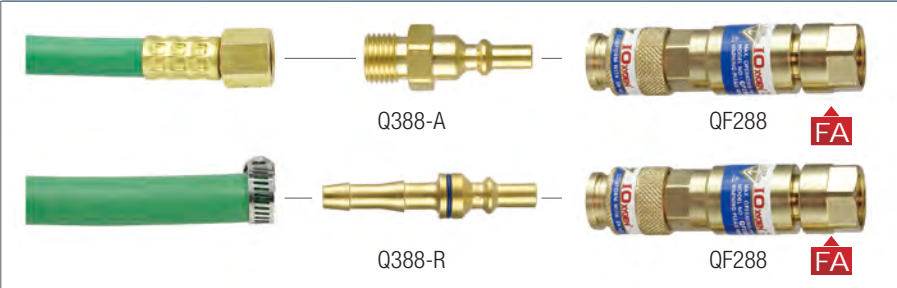


Flashback Arrestor



 = Flashback Arrestor

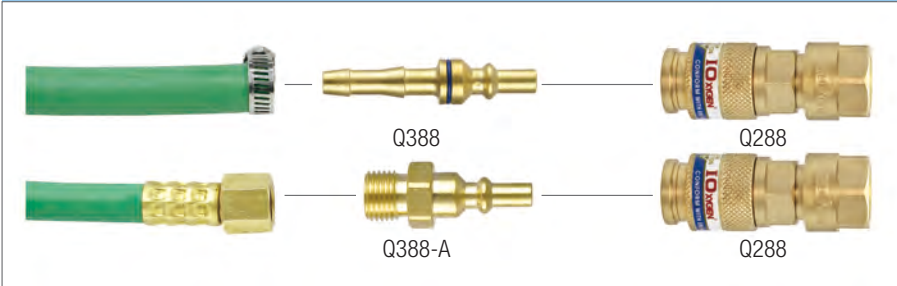
Quick Action Coupling with Built-in Flashback Arrestor



FOR REGULATOR TO HOSE

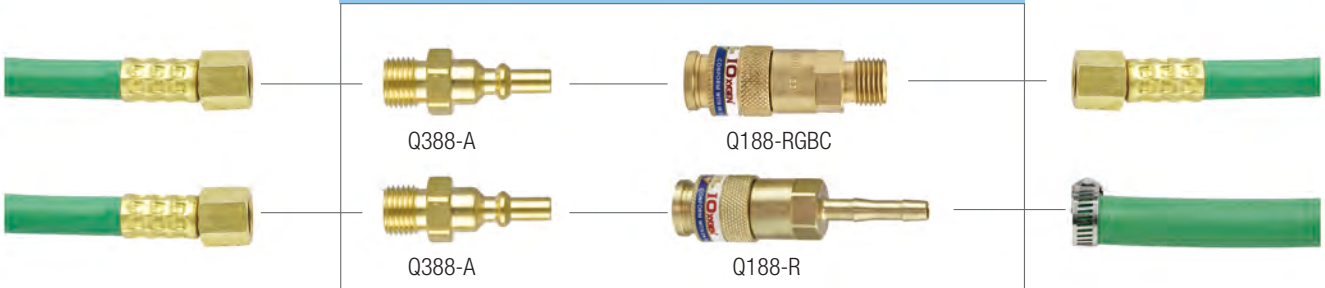


Quick Action Coupling

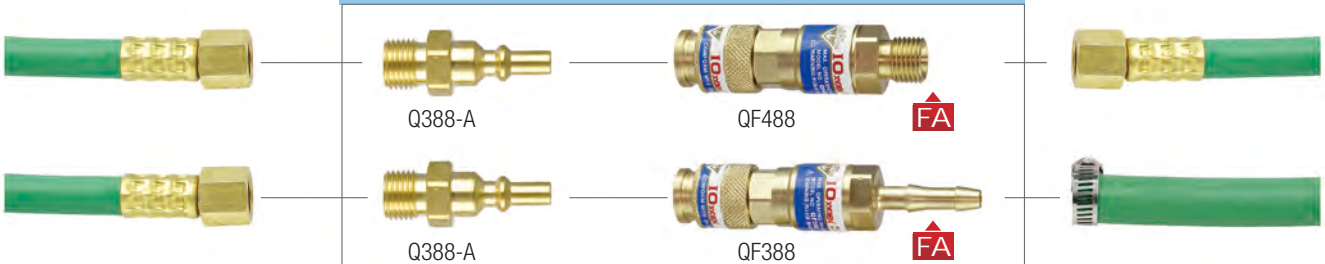


FOR HOSE TO HOSE

Quick Action Coupling



Quick Action Coupling with Built-in Flashback Arrestor





SPECIALTY EQUIPMENT



CRF-200 Series

Electrically Heated CO₂ Flowmeter Regulator

FEATURES :

- Forged brass body and chromed bonnet for maximum strength
- This product is suitable for extensive and long-term use of carbon dioxide
- With automatic temperature controller, it can stop heating when the degree is 60°C and restart when the degree is lower than 50°C to keep warm and prevent freezing
- Cartridge heater and pressure reducing mechanism provide stabilized pressure and flow
- 36V, 110V, and 220V are available
- Preset outlet pressure at 3.5 bar



SPECIFICATIONS :

Model No.	GAS	Flow (Lt./Min.)	Heater Power	Cylinder Pressure (BAR)
CRF-200-220	CO ₂	0-25	220VAC 210W	0-315
CRF-200-110	CO ₂	0-25	110 VAC 210W	0-315
CRF-200-36	CO ₂	0-25	36 VAC 210W	0-315

CRF-220 Series

Crown[®] Style

Series Electrically Heated CO₂ Flowmeter Regulator

FEATURES :

- Forged brass body and chromed bonnet for maximum strength
- This product is suitable for extensive and long-term use of carbon dioxide
- With automatic temperature controller, it can stop heating when the degree is 60°C and restart when the degree is lower than 50°C to keep warm and prevent freezing
- Cartridge heater and pressure reducing mechanism provide stabilized pressure and flow
- 36V, 110V, and 220V are available
- Adjust pressure by knob



SPECIFICATIONS :

Model No.	GAS	Flow (Lt./Min.)	Heater Power	Cylinder Pressure (BAR)	Delivery Pressure (BAR)
CRF-220-220	CO ₂	0-25	220VAC 210W	0-315	3.5
CRF-220-110	CO ₂	0-25	110 VAC 210W	0-315	3.5
CRF-220-36	CO ₂	0-25	36 VAC 210W	0-315	3.5

CRG-320 Series

Electrically Heated CO₂ Flowgauge Regulator

FEATURES :

- Forged brass body and chromed bonnet for maximum strength
- This product is suitable for extensive and long-term use of carbon dioxide
- With 53mm pressure gauge or flowgauge.
- With automatic temperature controller, it can stop heating when the degree is 60°C and restart when the degree is lower than 50°C to keep warm and prevent freezing
- Cartridge heater and pressure reducing mechanism provide stabilized pressure and flow
- 36V, 110V, and 220V are available
- Adjust pressure by knob



SPECIFICATIONS :

Model No.	GAS	Flow (Lt./Min.)	Heater Power	Cylinder Pressure (BAR)
CRG320-220-30LM	CO ₂	0-30	220VAC 210W	0-315
CRG320-110-30LM	CO ₂	0-30	110VAC 210W	0-315
CRG320-36-30LM	CO ₂	0-30	36VAC 210W	0-315
CRG320-220-50LM	CO ₂	0-50	220VAC 210W	0-315
CRG320-110-50LM	CO ₂	0-50	110VAC 210W	0-315
CRG320-36-50LM	CO ₂	0-50	36VAC 210W	0-315

Model No.	GAS	Heater Power	Cylinder Pressure (BAR)	Max. Delivery Pressure (BAR)	Max. Working Pressure (BAR)
CRG320-220-16K	CO ₂	220VAC 210W	0-315	0-10	16
CRG320-110-16K	CO ₂	110VAC 210W	0-315	0-10	16
CRG320-36-16K	CO ₂	36VAC 210W	0-315	0-10	16



300MX / 301MX Gas Mixers

300MX type Gas Mixer is a compact device for two gases,

301MX type is for three gases. Set the desired flow rate from the mixing ratio of gases.

FEATURES :

- Check valve fitted inside for higher safety
- Due to the mixing chamber, the gas is well mixed
- High accuracy in flow rate $\pm 10\%$
- Piston design pressure stabilizer to deliver balanced gas



SPECIFICATIONS :

Model	GAS	Inlet Pressure (BAR)	Flow (Lt./Min.)	Connection	Dimensions
300MX	Argon / CO ₂	4-10	AR : 25 LPM CO ₂ : 25 LPM	Inlet: M16x1.5 RH Outlet: 8mm	(W)220 x (H)270 x (D)250 Weigh: 5.1kg
301MX	Oxygen / Argon / CO ₂ / Nitrogen / Hydrogen / Helium	4-10	AR : 25 LPM CO ₂ : 25 LPM N ₂ : 25 LPM	Inlet: M16x1.5 RH Outlet: 8mm	(W)250 x (H)310 x (D)250 Weigh: 5.9kg

398-35Φ

VICTOR® Style

Machine Cutting Torch

Cutting Capacity: up to 7" (177.8mm)

FEATURES :

- Two hose version
- Quick opening cutting oxygen valve for immediate full flow
- Separate preheat and cutting oxygen valves for high and low preheat control
- Machined brass head and forged brass body for maximum strength
- Use with 1-GPN & 1-101 tips



OXY-ACETYLENE, PROPANE SPECIFICATIONS :

Model	Inlets	Length (mm)	Barrel length	Racking length
398-2E	2 hose	220mm	4/3/8"(111.1mm)	-
398-2F	2 hose	270mm	6-1/2"(165.1mm)	4"
398-2H	2 hose	310mm	8"(203.2mm)	5-3/4"
398-2J	2 hose	360mm	10"(254.0mm)	7-3/8"
398-2L	2 hose	410mm	12"(304.8mm)	9-3/8"
398-2P	2 hose	560mm	18"(457.2mm)	14-3/8"

* Gear racks must be ordered separately.

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MG-350

MESSER® Style

Machine Cutting Torch

Cutting Capacity: up to 300mm

FEATURES :

- Three-hose machine cutting torch
- Tips are optional
- Outer nozzle is made of copper; inner nozzle is made of brass
- Three stainless steel and angle-adjustable needle valves

SPECIFICATIONS :

Model	Inlets	Barrel Φ (mm)	Length (mm)
MG-350/30Φ	3 hose	30	480
MG-350/32Φ	3 hose	32	480



TIPS(OPTIONAL) :

Model	Outer Nozzle	Inner Nozzle	Cutting Capacity (mm)
MG350A01	350A01	1	2-8
		2	3-10
		3	10-25
		4	25-40
		5	40-60
		6	60-100
MG350A02	350A02	7	100-200
		8	200-300



198

BOC /HARRIS® Style Machine Cutting Torch

Cutting Capacity: up to 380mm

FEATURES :

- Quick opening cutting oxygen valve for immediate full flow
- Separate preheat and cutting oxygen valves for high and low preheat control
- Machined brass head and forged brass body for maximum strength
- 198-6T Use with ANME & PNME tips
- 198-2T & 3T, 198-2A & 3A Use with 6290, 6290-AC, 6290-NX & 6290-VVC tips



198-6T | BOC Style



198-2T & 198-3T | HARRIS Style



198-2A & 198-3A | HARRIS Style

OXY-ACETYLENE, PROPANE SPECIFICATIONS :

Model No.	Inlets	Barrel Φ (mm)	Length (mm)	Racking	Compatible Head
198-6T	3 Hose	32	360	X	BOC
198-6TR	3 Hose	32	360	RACK	BOC
198-6TS	3 Hose	32	250	X	BOC
198-6TSR	3 Hose	32	250	RACK	BOC
198-6TU	3 Hose	32	460	X	BOC
198-6TUR	3 Hose	32	460	RACK	BOC
198-6TB	3 Hose	35	250	X	BOC
198-6TBR	3 Hose	35	250	RACK	BOC
198-6TD	3 Hose	35	360	X	BOC
198-6TDR	3 Hose	35	360	RACK	BOC
198-6TE	3 Hose	35	460	X	BOC
198-6TER	3 Hose	35	460	RACK	BOC

OXY-ACETYLENE SPECIFICATIONS :

Model No.	Inlets	Barrel Φ (mm)	Length (mm)	Racking	Compatible Head
198-2T	3 Hose	32	360	X	HARRIS
198-2TR	3 Hose	32	360	RACK	HARRIS
198-2TS	3 Hose	32	250	X	HARRIS
198-2TSR	3 Hose	32	250	RACK	HARRIS
198-2TU	3 Hose	32	460	X	HARRIS
198-2TUR	3 Hose	32	460	RACK	HARRIS
198-2TB	3 Hose	35	250	X	HARRIS
198-2TBR	3 Hose	35	250	RACK	HARRIS
198-2TD	3 Hose	35	360	X	HARRIS
198-2TDR	3 Hose	35	360	RACK	HARRIS
198-2TE	3 Hose	35	460	X	HARRIS
198-2TER	3 Hose	35	460	RACK	HARRIS
198-2A	2 Hose	32	250	X	HARRIS
198-2AR	2 Hose	32	250	RACK	HARRIS
198-2B	2 Hose	35	250	X	HARRIS
198-2BR	2 Hose	35	250	RACK	HARRIS

OXY-PROPANE SPECIFICATIONS :

Model No.	Inlets	Barrel Φ (mm)	Length (mm)	Racking	Compatible Head
198-3T	3 Hose	32	360	X	HARRIS
198-3TR	3 Hose	32	360	RACK	HARRIS
198-3TS	3 Hose	32	250	X	HARRIS
198-3TSR	3 Hose	32	250	RACK	HARRIS
198-3TU	3 Hose	32	460	X	HARRIS
198-3TUR	3 Hose	32	460	RACK	HARRIS
198-3TB	3 Hose	35	250	X	HARRIS
198-3TBR	3 Hose	35	250	RACK	HARRIS
198-3TD	3 Hose	35	360	X	HARRIS
198-3TDR	3 Hose	35	360	RACK	HARRIS
198-3TE	3 Hose	35	460	X	HARRIS
198-3TER	3 Hose	35	460	RACK	HARRIS
198-3A	2 Hose	32	250	X	HARRIS
198-3AR	2 Hose	32	250	RACK	HARRIS
198-3B	2 Hose	35	250	X	HARRIS
198-3BR	2 Hose	35	250	RACK	HARRIS

GS-150

Series Gas Saver

FEATURES :

- Simple structure, big energy, small cost
- Free from repeated procedures of igniting, flame adjusting and extinguishing work
- Easy handling without electricity
- Fixed seat for easy installation
- The pilot flame hole is only 0.1mm to save more considerable amount of gases

SPECIFICATIONS :

Model No.	GAS	Pressure (kg/cm ²)	Weight
GS-150-A	Oxygen	1.0-7.0	1 kg
	Acetylene	0.2-1.0	
GS-150-P	Oxygen	1.0-7.0	
	Propane	0.2-1.0	

**Inlet and outlet connection will be supplied to suit your requirement.





310

Balloon Filler Regulator

FEATURES :

- Economy style
- Horizontal shape one-piece construction, tilt valve
- Hand tight connection. No gauge design
- Extremely easy to use and safe
- Other thread sizes are available for different gases
- Net weight: 310 : 0.4kg / each



311HA

Balloon Filler Regulator

FEATURES :

- Endurable tilt valve for quick inflation of balloons
- Hand/Wrench tight connection. No gauge design
- Easy and safe
- Other thread sizes are available for different gases
- Net weight : 311HA : 0.5kg / each



311HB

Balloon Filler Regulator

FEATURES :

- Endurable tilt valve for quick inflation of balloons
- Plastic hand tight connection. No gauge design
- Easy and safe
- Other thread sizes are available for different gases
- Net weight: 0.6kg / each



311GA

Balloon Filler Regulator

FEATURES :

- Endurable tilt valve for quick inflation of balloons
- Hand/Wrench tight with gauge style
- Easy and safe
- Other thread sizes are available for different gases
- Net weight: 0.6kg / each



311GB

Balloon Filler Regulator

FEATURES :

- Endurable tilt valve for quick inflation of balloons
- Plastic hand tight with gauge style
- Easy and safe
- Other thread sizes are available for different gases
- Net weight: 0.6kg / each

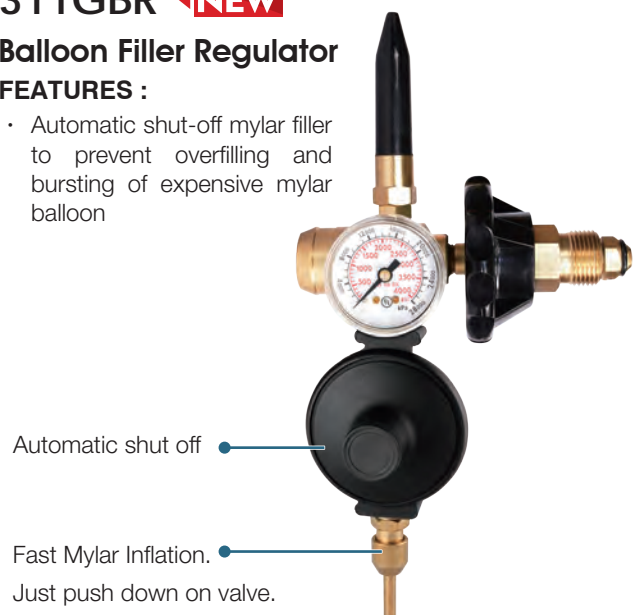


311GBR **NEW**

Balloon Filler Regulator

FEATURES :

- Automatic shut-off mylar filler to prevent overfilling and bursting of expensive mylar balloon





TH-98

HARRIS[®] Style Twin Tips Adapter

FEATURES :

- Adjust from 30mm to 305mm wide (special width is available on request)
- Use with 6290, 6290-NX & 6290-NH tips



TH-99

BRITISH[®] Style Twin Tips Adapter

FEATURES :

- Adjust from 32mm to 300mm wide (special width is available on request)
- Use with ANME & PNME tips



VH-591

VICTOR[®] Style Twin Tips Adapter

FEATURES :

- Adjust from 32mm to 300mm wide (special width is available on request)
- Use with 1-101 & GPN tips



K-3, K-4 & K-5

Gouging Torches

FEATURES :

- For gouging, cutting, beveling, piercing and flushing metal, the device is designed to remove any kind of metal by the "Air Carbon-Arc cutting" process which is more economical than older methods such as burning, chipping, grinding, etc.

SPECIFICATIONS :

Model	Description
307	K-3 torch, Complete With 7' Swivel Cable & Span Wrench.
300	K-3 torch, Without Cable.
407	K-4 torch, 15 angle in the torch complete with 7' Swivel Cable & Span Wrench.
400	K-4 torch, 15 angle in the torch without Cable.
507	K-5 torch, Complete With 7' Swivel Cable & Span Wrench.
500	K-5 torch, Without Cable.



ELECTRICAL POWER

FEATURES :

- The following table lists recommended minimum-maximum electrode current requirements.

SPECIFICATIONS :

Electrode (inch)	Min. Amps. dc.	Max. Amps. dc.	Min. Amps. ac.	Max. Amps. ac
5/32	90	150	-	-
3/16	200	250	200	250
1/4	300	400	300	400
5/16	350	450	325	425
3/8	450	600	350	450



AIR REQUIREMENTS

FEATURES :

- Compressed air at 80 to 100 PSI is recommended for K-3, K-4, and K-5 torches.

SPECIFICATIONS :

Model	Applications & Electrodes			
	Electrode Diameters inch.			Typical Applications
	Copper clad	DC electrodes	AC electrodes.	
K-3	5/32, 3/16, 1/4,	5/16, 3/8	3/16, 1/4, 3/8	General purpose, steel fabricators, shipyards, general maintenance.
K-4	5/32, 3/16, 1/4,	5/16, 3/8	3/16, 1/4, 3/8	General purpose, steel fabricators, shipyards, general maintenance.
K-5	5/16, 3/8, 1/2, 5/8		3/8	Heavy Duty, steel fabricators, shipyard.



*Metric Conversion Table

Inch	5/32	3/16	1/4	5/16	3/8	1/2	5/8	3/4	12
(mm)	4.0	4.8	6.4	7.9	9.5	12.7	15.9	19.0	350



ACCESSORIES





Mixer



Models	Style	Specifications
AF-313	AFROX	7/16"-27N, For AF-W welding tips



Models	Style	Specifications
MG-243	CIGWELD	3/8"-26N, For MG-W, 1390 & MG-H tips



Models	Style	Specifications
AF-413	AFROX	1/4"-26N, For AG-W welding tips



Models	Style	Specifications
MG-MIE	CIGWELD	7/16-27N



Models	Style	Specifications
E-43	HARRIS	1/2"-25N



Models	Style	Specifications
MG-MIH	CIGWELD	1/2"-20N



Models	Style	Specifications
E2-43	HARRIS	W9-26N, For J-63 heating tips



Models	Style	Specifications
MG-MIHB	CIGWELD	1/2"-20N, For propane



Models	Style	Specifications
F-43	HARRIS	1/2"-25N, For 2290-H series heating tips



Models	Style	Specifications
UNI-5	BRITISH	7/16"-27N, For AF-W welding tips



Models	Style	Specifications
GB-43	HARRIS	7/16"-27N



Models	Style	Specifications
H-19-2E	HARRIS	5/16"-27N, For 5090 & D-50-C tubes



Models	Style	Specifications
AG-263	BRITISH	1/4"-26N, For AG-W welding tips

Tip Cleaners

FEATURES :

- 13 pieces with different sizes

Models	C-9
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Heater

FEATURES :

- 220V or 110V are available (45watt)
- Max. heat 180°C
- Suitable for CO₂ flowmeter and regulator. Design to stabilize pressure and flow.

Models	101FL
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Roller Guides and Circle Cutting Attachments

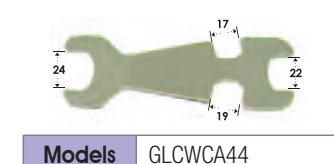
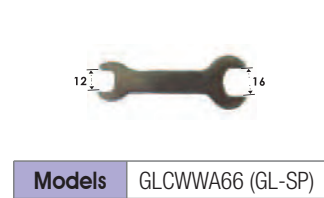
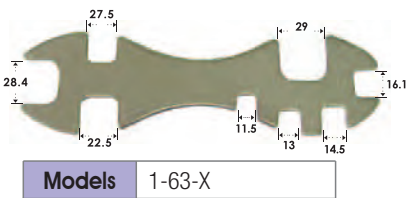
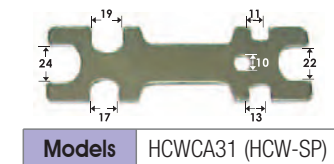


Models	Specifications
AG-317+X21A42A	For AG-316 cutting attachment. Suitable for 45° and ANME & PNME cutting tips.
AG-317C	For AG-316 cutting attachment. Suitable for 180° and ANME & PNME cutting tips.
R-69-3B	For 62-3, 42-4, 142, 72-2, 73-2 & 49-2 torches and cutting attachments. Suitable for 6290 cutting tips
R-69-3C	For VM-202 & VM-222 cutting attachments. Suitable for 45° and 3-101 & 3-GPN cutting tips.
1-69-6	For 62-3, 42-4, 142, 72-2, 73-2 & 49-2 torches and cutting attachments. Suitable for 45° and 6290 tips.
1-69-6A	For 1601, 1602, NM-250 & 59-3 torches and cutting attachments. Suitable for 45° and ANME & PNME cutting tips.
1-69-6B	For 1600B & MG-242 torches and cutting attachments. Suitable for 45° and 41 & 44 cutting tips.
1-69-6C	For 1600, VH-212 & VH-2460 torches and cutting attachments. Suitable for 45° and 1-101 & GPN cutting tips.
1-69-6D	For AG-282 cutting attachment. Suitable for 45° and HA211 cutting tips.
1607-CG	For 1606, 1607 & 2601 cutting torches. Suitable for 45° and G1-A, G1-P cutting Tips.

Wrenches

FEATURES :

- General-purpose wrenches for tip nuts and hose connections.





Welding Goggles

FEATURES :

- With built-in baffle side shield for ventilation



Models	Type	Lens	Specifications	Certifications
IO-GG			Green soft PVC frame, green Polycarbonate lens.	
IO-GGA	Lift-front type	Φ 50mm	Green soft PVC frame, black ABS lens holder, green Polycarbonate filter lens	
IO-GGH	Lift-front type	Φ 50mm	Green soft PVC frame, black ABS lens holder, green glass filter lens (shade#5)	Meeting ANSI Z87.1%
IO-GGF	Fixed front type	Φ 50mm	Green soft PVC frame, black ABS lens holder, green Polycarbonate filter lens	
IO-GGD	Cup type	Φ 50mm	Black ABS cup, green glass filter lens (shade#5), adjustable bridge of the nose	Meeting ANSI Z87.1%
IO-GGI	Cup type	Φ 50mm	Black ABS cup, adjustable bridge of the nose, green Polycarbonate filter lens	
IO-GGJ	Lift-front type	2" x 4 1/4"	Green soft PVC frame, black ABS lens holder, green glass filter lens (shade#5)	Meeting ANSI Z87.1%
IO-GGK	Fixed front type	2" x 4 1/4"	Green soft PVC frame, black ABS lens holder, green Polycarbonate filter lens	

Light and Flint



26-S



26-SF



26-ST

Models	Specifications
26-S	Spark lighter, round file

Models	Specifications
26-SF	Spark lighter, flat file

Models	Specifications
26-ST	Spark lighter, triangular file



222KF



26-LT



26-L(5PCS)



26-L(3PCS)

Models	Specifications
222KF	Pistol type lighter

Models	Specifications
26-LT	Triple flints

Models	Specifications
26-L	Single flints (3 pieces/5 pieces)



Rubber Welding Twin Hose

FEATURES :

- High Quality rubber
- Reinforcement in high tensile synthetic textile
- Inner tube resistant to welding gas
- Outer tube resistant to abrasion and weather
- Grade R and T are available
- Always specify if brass hose braces and nuts are needed

CERTIFICATIONS :

Conform with ISO 3821 / AS 1335 / RMA

SPECIFICATIONS :

Models	Hose Size	ID (mm)	OD(mm)	Hose Length	Hose Color
IO-HSGR	3/16"	5	11	12' / 15' / 20' /25' / 50' / 100'	Green for Oxygen & Red for Fuel Gas
	1/4"	6	13		
	5/16"	8	15		
	3/8"	9.5	16.5		
	1/4"+5/16"	6	13		
		8	15		
	1/4"+3/8"	6	16		
		9	16		
IO-HSBR	3/16"	5	11	12' / 15' / 20' /25' / 50' / 100'	Blue for Oxygen & Red for Fuel Gas
	1/4"	6	13		
	5/16"	8	15		
	3/8"	9.5	16.5		
	1/4"+5/16"	6	13		
		8	15		
	1/4"+3/8"	6	16		
		9	16		
IO-HSBO	3/16"	5	11	12' / 15' / 20' /25' / 50' / 100'	Blue for Oxygen & Orange for Propane
	1/4"	6	13		
	5/16"	8	15		
	3/8"	9.5	16.5		
	1/4"+5/16"	6	13		
		8	15		
	1/4"+3/8"	6	16		
		9	16		
5/16"/3/8"	8	16			
	9	16			



IO-HSGR



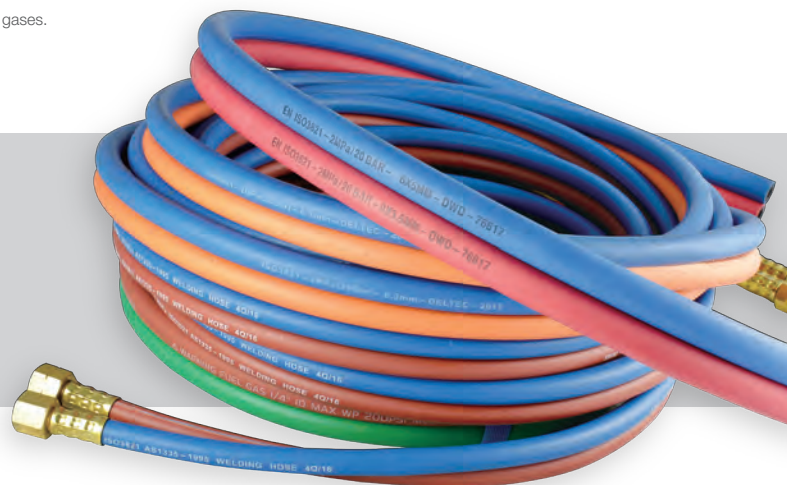
IO-HSBR



IO-HSBO

* Already fitted with the most used connections.

**Our choice includes single hoses, twins or coupled, for Oxugen, Acetylene, Propane and inert gases.





Pressure Gauges

FEATURES :

- Easy-to-read one or dual scale gauges with screw-on polycarbonate lens for durability
- Tough steel case protected by oven baked corrosion resistant paint
- Precise graduations



SPECIFICATIONS :

Model	BAR (KG)	PSI	KPA	Lt./Min., SCFH	mm	Thread
10611	280 KG	4000			53	NPT 1/8
10612	14 KG	200			53	NPT 1/8
10613	28 KG	400			53	NPT 1/8
10614	4 KG	60			53	NPT 1/8
10615	315 BAR				53	NPT 1/8
10616	16 BAR				53	NPT 1/8
10617	40 BAR				53	NPT 1/8
10618	2.5 BAR				53	NPT 1/8
10619				30 Lt./Min.	53	NPT 1/8
10620				30 SCFH	53	NPT 1/8
10621		4000	28000		53	NPT 1/8
10622		200	1400		53	NPT 1/8
10623		400	2800		53	NPT 1/8
10624		30	200		53	NPT 1/8
10625	400 BAR				53	NPT 1/8
10626	6 BAR			50 SCFH	53	NPT 1/8
10627				15 Lt./Min.	53	NPT 1/8
10628				50 Lt./Min.	53	NPT 1/8
25611		4000	28000		63	NPT 1/4
25612		200	1000		63	NPT 1/4
25613		400	2800		63	NPT 1/4
25614		30	200		63	NPT 1/4
25615	315 KG	4500	1400		63	NPT 1/4
25616	14 KG	200	25000		63	NPT 1/4
25617	28 KG	400	3000		63	NPT 1/4
25618	2 KG	30	300		63	NPT 1/4
25619	40 KG	550			63	NPT 1/4
25620	2.5 KG	35			63	NPT 1/4
25620A	16 KG	220			63	NPT 1/4
25620B	7 KG	100			63	NPT 1/4
25621		4000	28000		63	NPT 1/4
25622		140	1400		63	NPT 1/4
25623		400	2800		63	NPT 1/4
25624		30	200		63	NPT 1/4
25625		200			63	NPT 1/4
25626					63	NPT 1/4
25627					63	NPT 1/4
25628					63	NPT 1/4

Models	BAR (KG)	PSI	KPA	Lt./Min., SCFH	mm	Thread
25629	315 BAR				63	NPT 1/4
25630	16 BAR				63	NPT 1/4
25631	40 BAR				63	NPT 1/4
25632	2.5 BAR				63	NPT 1/4
25632A	400 BAR				63	NPT 1/4
25632B	25 BAR				63	NPT 1/4
25632C	5 BAR				63	NPT 1/4
25633				30 Lt./Min.	63	NPT 1/4
25634	250 KG				63	NPT 1/4
25635	25 KG				63	NPT 1/4
25636	30 KG				63	NPT 1/4
25637	3 KG				63	NPT 1/4
25638	315 BAR	4500			53	NPT 1/4
25639	16 BAR	220			53	NPT 1/4
25640	40 BAR	550			53	NPT 1/4
25641	2.5 BAR	35			53	NPT 1/4
25641A	400 BAR	5800			53	NPT 1/4
25641B	25 BAR	350			53	NPT 1/4
25642		4000			53	NPT 1/4
25643		200			53	NPT 1/4
25644					53	NPT 1/4
25645					53	NPT 1/4
25646					53	NPT 1/4
25647					53	NPT 1/4
25648					53	NPT 1/4
25649					53	NPT 1/4
25650					53	NPT 1/4
35611		4000	28000		38	NPT 1/8
35612		200	1400		38	NPT 1/8
35613		400	2800		38	NPT 1/8
35614		30	200		38	NPT 1/8
35615	315 BAR	4500			38	NPT 1/8
35616	16 BAR	230			38	NPT 1/8
35617	40 BAR	580			38	NPT 1/8
35618	2.5 BAR	35			38	NPT 1/8
35619				30 Lt./Min.	38	NPT 1/8
35620				30 SCFH	38	NPT 1/8

Converters



38-GBR

SPECIFICATIONS :

Model	From Female	To Male
38-GBR	9/16"-18 RH	G 3/8 RH
38-GBL	9/16"-18 LH	G 3/8 LH
38-2AR	9/16"-18 RH	5/8"-18 RH
38-2AL	9/16"-18 LH	5/8"-18 LH
38-2FR	9/16"-18 RH	M16x1.5 RH
38-2FL	9/16"-18 LH	M16x1.5 LH
38-2GR	9/16"-18 RH	G 1/4 RH
38-2GL	9/16"-18 LH	G 1/4 LH
38-5GR	G1/4 RH	G 3/8 RH
38-5GL	G1/4 LH	G 3/8 LH
38-6GR	G3/8 RH	9/16"-18 RH
38-6GL	G3/8 LH	9/16"-18 LH
38-6GRM	G3/8 RH	G 1/4 RH
38-7GRL	G3/8 LH	G 1/4 LH

"Y" pieces

FEATURES :

- "Y" piece for attaching two hose lines to the same regulator. Assemble on regulator outlet.



37-R2

37-R

3YBR

SPECIFICATIONS :

Model	Specifications
37-R	with two needle valves (9/16"-18 RH)
37-L	with two needle valves (9/16"-18 LH)
37-R2	without valve (9/16"-18 RH)
37-L2	without valve (9/16"-18 LH)
3YAR	with two needle valves (9/16"-18 RH)
3YAL	with two needle valves (9/16"-18 LH)
3YBR	with two needle valves (G 3/8 RH)
3YBL	with two needle valves (G 3/8 LH)
3YFR	with two needle valves (M16x1.5 RH)
3YFL	with two needle valves (M16x1.5 LH)
3Y5/8R	with two needle valves (5/8"-18 RH)
3Y5/8L	with two needle valves (5/8"-18 LH)

Hose Connection Stems

SPECIFICATIONS :

Model	Specifications
986-1	Ø9.5mm hose
986-2	Ø8 mm hose
986-3	Ø6 mm hose
986-4	Ø5 mm hose
987-1	Ø10 mm hose
987-2	Ø8 mm hose
988-1	Ø8 mm hose



986



987



988

Outlet nipples for regulators



957-RL

SPECIFICATIONS :

Model	Gas	Outlet
957-R	OXYGEN	9/16"-18 RH
957-L	ACETYLENE	9/16"-18 LH
957-SR	OXYGEN	G 3/8 RH
957-SL	ACETYLENE	G 3/8 LH
957-AO	OXYGEN	5/8"-18 RH
957-AA	ACETYLENE	5/8"-18 LH
F-957-R	OXYGEN	M16x1.5 RH
F-957-L	ACETYLENE	M16x1.5 LH
G-957-1R	OXYGEN	G 1/4 RH
G-957-1L	ACETYLENE	G 1/4 LH
957-AG	ARGON /CO ₂	5/8"-18 RH
957-AR	ARGON /CO ₂	G 1/4 RH
957-FR	ARGON /CO ₂	M16x1.5 RH
957-RA	ARGON /CO ₂	9/16"-18 RH
957-SA	ARGON /CO ₂	G 3/8 RH

52-R/L Needle Valves



52-R

FEATURES :

- Needle valves for flow control can replace outlet nipple on regulator. Particularly recommend for laboratory installation.

SPECIFICATIONS :

Model	Outlet	Inlet
52-R	9/16"-18 RH	NPT 1/4 (taper)
52-L	9/16"-18 LH	NPT 1/4 (taper)
52	NPT 1/4 (taper)	NPT 1/4 (taper)

Hose Connection Nuts

SPECIFICATIONS :

Model	Specifications
959-R	9/16"-18 RH
959-L	9/16"-18 LH
960-R	5/8"-18 RH
960-L	5/8"-18 LH
961-R	M16x1.5 RH
961-L	M16x1.5 LH
962-R	G 1/4 RH
962-L	G 1/4 LH
963-R	G 3/8 RH
963-L	G 3/8 LH



963-R



Inlet converters

RA-314

Acetylene

CGA-200 Valve to
CGA-520 Regulator



RA-61

Acetylene

CGA-300 Valve to
CGA-510 Regulator



RA-315

Acetylene

CGA-510 Valve to
CGA-520 Regulator



RA-304

Acetylene

CGA-300 Valve to
CGA-200 Regulator



RA-316

Acetylene

CGA-300 Valve to
CGA-520 Regulator



RA-322

Acetylene

CGA-200 Valve to
CGA-300 Regulator



RA-317

Acetylene

CGA-520 Valve to
CGA-510 Regulator



RA-324

Acetylene

CGA-200 Valve to
CGA-510 Regulator



RA-319

Acetylene

CGA-520 Valve to
CGA-300 Regulator



RA-51

Acetylene

CGA-510 Valve to
CGA-300 Regulator



RA-320

Acetylene

CGA-510 Valve to
CGA-200 Regulator



RA-306

Acetylene

CGA-520 Valve to
CGA-200 Regulator



CADMIUM FREE SILVER BRAZING ALLOYS

FEATURES :

- The cadmium free silver brazing alloys are used for soldering with ferrous metals, copper and copper alloys, nickel and nickel alloys, and special metal such as tungsten carbide. In part, a variety of composite alloys have different characteristics which depend on the proportion of silver. Generally, the alloys contain a high proportion of silver will lower the melting temperature; they become whiter which unlike the brass color. The fluid property of the alloy will also be improved during soldering process.
- Tin is used in silver soldering alloys for the same purpose of using cadmium. Mixture of tin with silver, copper, and zinc alloy can lower the melting temperature, and improve the fluid characteristic when applied to ferrous metals. The cadmium free silver brazing alloys are environmental product which comply the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS).



Product Code	Chemical Composition %							AWS/JIS Spec Class	Melting Range		Density Kg/cm ³	Application
	Ag	Cu	Zn	Sn	Mn	Ni	In		Solidus °C	Liquidus °C		
CI-925	92.5	7.5	-	-	-	-	-	BAG-19	760	890	10.0	
CI-721	72	28	-	-	-	-	-	BAG-8	780	780	10.0	Suitable for furnace brazing in a protective atmosphere without a flux, very fluid.
CI-701	70	20	10	-	-	-	-	BAG-10	725	750	9.8	Particular using for joining with sterling silver.
CI-601	60	23	17	-	-	-	-		675	695	9.8	Similar to CI-721. With lower melting range.
CI-562	56	22	17	5	-	-	-	BAG-7	620	650	9.5	To minimize corrosion cracking of nickel or nickel-base alloys at low brazing melting range.
CI-502Ni	50	20	28	-	-	2	-	BAG-24	660	707	9.0	Use to cover long narrow joint.
CI-4900	49	16	23	-	7.5	4.5	-	BAG-22	680	705	8.9	With improved brazing characteristic, used in brazing tungsten carbide tools.
CI-450	45	30	25	-	-	-	-	BAG-5	665	745	9.2	Especially for brazing in the electric industry.
CI-452	45	27	25	3	-	-	-	BAG-36	640	680	9.2	Suitable for brazing ferrous & nonferrous base metals.
CI-4553	45	26	21	-	-	3	5		665	685	9.2	Improved brazing quality & fluidity.
CI-407	40	30	25	-	-	-	5		635	715	9.3	Good fluidity for welding compressor part.
CI-402Ni	40	30	28	-	-	2	-	BAG-4	670	780	8.9	Used extensively for welding compressor part.
CI-402Sn	40	30	28	2	-	-	-	BAG-28	640	700	9.1	With a narrow melting range than other cad-free alloys.
CI-382	38	32	28	2	-	-	-	BAG-34	649	721	8.8	Cad-free, ideal substitute for CI-351 & CI-301.
CI-350	35	32	33	-	-	-	-	BAG-35	680	750	9.0	Frequently used for brazing applications.
CI-352	35	32	31	2	-	-	-		660	740	9.0	Similar to CI-350, but lower melting range than CI-350.
CI-300	30	38	32	-	-	-	-	BAG-20	650	750	8.8	Due to its good brazing properties, cad-free CI-300 & new application are being developed.
CI-302	30	36	32	2	-	-	-		680	765	8.9	Similar to CI-300, but with higher melting point.
CI-252	25	40	33	2	-	-	-	BAG-37	685	770	8.7	Less proportion of silver. An economical product. Used for brazing steel, copper and brass.



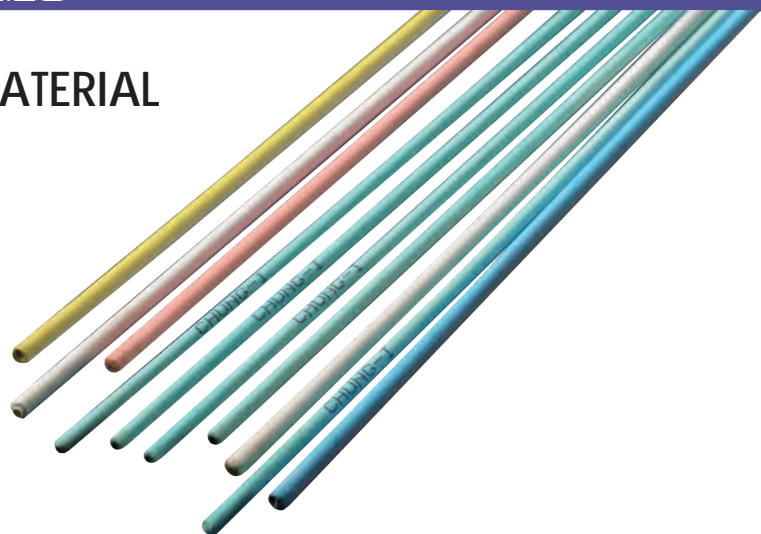
FLUX-COATED BRAZING ALLOYS MATERIAL

FEATURES :

- Flux-coated silver brazing rods can avoid using the flux repeatedly while operating. It helps for increasing productivity and saving time and costs. It is suitable for ultra-hard Tungsten cutters, lamp ornament and something which need to be welded by hand.

MAIN USE :

- Ultra-hard alloy joint, cutting tools, tungsten steel, steel and copper piping etc., Applied to electric equipments, aerospace material, automobile, optics/spectacles, jewelry etc.,



Product Code	Chemical Composition %				AWS/JIS Spec Class	Melting Range	
	Ag	Cu	Zn	Other Elements		Solidus °C	Liquidus °C
CI-562	56	22	17	Sn-5	BAG-7	620	650
CI-452	45	27	25	Sn-3	BAG-36	640	680
CI-450	45	30	25	-	BAG-5	665	745
CI-402Sn	40	30	28	Sn-2	BAG-28	640	700
CI-382	38	32	28	Sn-2	BAG-34	649	721
CI-350	35	32	33	-	BAG-35	680	750
CI-300	30	38	32	-	BAG-20	650	750
CI-252	25	40	33	Sn-2	BAG-37	685	770



COPPER PHOSPHORUS BRAZING ALLOYS

FEATURES :

- Description: The compound with high proportion of phosphorus will result in a more active and fluid alloy which can flow over a larger area. The alloy usually has a smaller melting range and best used on filler joint. Higher proportion of silver alloy will result in a fluid which is easier to be controlled by operators. The silver alloy with less phosphorus may have a melting range which suitable for filling gaps. Generally, higher silver content alloy can bear hotter or longer heating cycle. Moreover, the resulted joints have better ductility.

MAIN USE :

- Refrigerator, air conditioner, heating exchanger, electric machine, brass alloy and others.



Product Code	Chemical Composition %				AWS/JIS Spec Class	Melting Range		Density Kg/cm ³	Application
	Ag	Cu	P	Other Elements		Solidus °C	Liquidus °C		
CI-P007	-	93	7	<0.2	BCuP-2	750	805	8.05	0% of silver, the alloy fluid can flow along the joint border which can reduce the alloy spread the surface.
CI-P008	-	92	8	<0.2		700	800	8.0	0% of silver, rapid and extensive fluidity. The fluid may spread the surface which is not easy to be controlled by operator.
CI-001	1	92	7	<0.2		640	800	8.1	Instead of CI-002 for saving cost.
CI-002	2	91	7	<0.2	BCuP-6	645	740	8.1	2% of silver, use as a temperature inhibitor.
CI-003	3	91	6	<0.2		630	785	8.2	5% of silver spread extensively; Best use on filler joint.
CI-005	5	89	6	<0.2	BCuP-3	640	805	8.2	Good fluidity & similar to CI-151, economical product.
CI-006	6	86.8	7.2	<0.2	BCuP-4	645	725	8.2	Less silver content than CI-151, economical product.
CI-101	10	84.5	5.5	<0.2		650	750	8.3	Lower silver content than CI-151, economical product.
CI-151	15	80	5	<0.2	BCuP-5	645	770	8.4	Lower melting range. Can be applied to various industries.
CI-P181	18	74.8	7.2	<0.2		645	670	8.6	Lowest melting range & best fluidity among the copper-phosphorus series.
CI-P201	20	74	6	<0.2		630	660	8.7	Better for large quality of brazing than others.
CI-Sn7	-	86.25	6.75	Sn7		650	700	8.0	Can be use to instead of CI-002 or CI-005. Good fluidity.




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