



SuperFlash[®] POINTS

COMPRESSED GAS EQUIPMENT

CATALOG SUPPLEMENT

5

FREE!

MINI

SAFETY POSTER

[PAGE 12]

INSIDE



STANDARD FLOW

Torch and Regulator Standard Flashback Arrestors

SuperFlash flashback arrestors are UL and BAM approved, 100% tested for reverse flow, leak integrity and flashback protection with actual flashbacks, and contain a built-in 100 micron inlet filter, reverse flow check valve, 3-5 micron flame barrier, and a thermal shutoff valve in our point of supply models. So you can be sure that not only are you getting enough gas flow, you are getting the highest quality safety device available.

SuperFlash flashback arrestors are the worldwide leader in quality and functionality.

Model DGN



Model DGN installs easily on the outlet fitting of most regulators and gas supply points. They help meet ANSI Z49.1 2012, OSHA, NFPA safety requirements and protect against the most common causes of accidents such as reverse gas flow, flashback, and hose burn back. Each flashback arrestor is 100% tested with actual flashbacks and have built in 100 micron inlet filters, reverse flow check valves, flame barriers, and thermal shut off valves. Model DGN includes all the features of the DGN with the addition of a pressure relief valve that vents excess pressure to the atmosphere.

CONNECTION

TYPE OF GAS	INLET	OUTLET	PART NO.
Fuel Gas (LH)	9/16" UNF ¹ F	9/16" UNF ¹ M	0701-4123
	1/4" NPT F	1/4" NPT F	EDI-0004
	RR 41/64" ² F	RR 41/64" ² M	0701-0299
Hydrogen (LH)	1/4" NPT F	1/4" NPT F	0701-4350*
Oxygen (RH)	9/16" UNF ¹ F	9/16" UNF ¹ M	0701-4128
	1/4" NPT F	1/4" NPT F	EDI-0001
	RR 41/64" ² F	RR 41/64" ² M	0701-0312

BLISTER PACK SET:

CONNECTION

TYPE OF GAS	INLET	OUTLET	PART NO.
1 Fuel (LH) 1 Oxygen (RH)	9/16" UNF ¹ F	9/16" UNF ¹ M	616226-04099



HOW SAFE ARE YOUR FLASHBACK ARRESTORS?

A quality flashback arrestor should have a stainless steel flame barrier and low porosity. (The flame barrier is the part of a flashback arrestor that actually stops the flashback.) Low cost or discount flashback arrestors often use a barrier made of bronze and with a porosity that can be as high as 20-40 microns. This allows the manufacturer to save money, but can possibly put the user in danger, because bronze is an alloy containing a large portion of copper. SuperFlash flashback arrestors use a flame barrier with a porosity of 3-5 microns, which enables the arrestor to safely stop flashbacks.

- ✓ 100% Flashback Testing ensures our products work in real world situations.
- ✓ 3-5 micron stainless steel flame barriers stop flashbacks. Other brands have larger microns and less effective materials, that might not stop flashbacks every time.
- ✓ 100 micron inlet filter keeps contaminants out and increases service life by as much as 2.5 times.



Model GG



Torch and Point-of-Use flashback arrestors are combination reverse flow check valve and flame barrier in one body. They provide protection against flashback and reverse flow of gases to the operator at the torch or Point-of-Use. Safety regulations and guidelines in many countries around the world require the use of flashback arrestors.

CONNECTION

TYPE OF GAS	INLET	OUTLET	PART NO.
Fuel Gas (LH)	9/16" UNF ¹ M	9/16" UNF ¹ F	0701-2064
	RR 41/64" ² F	RR 41/64" ² M	0701-3045
Oxygen (RH)	9/16" UNF ¹ M	9/16" UNF ¹ F	0701-2070
	RR 41/64" ² F	RR 41/64" ² M	0701-3044

BLISTER PACK SET:

CONNECTION

TYPE OF GAS	INLET	OUTLET	PART NO.
1 Fuel (LH) 1 Oxygen (RH)	9/16" UNF ¹ M	9/16" UNF ¹ F	616226-02070

GG AIRFLOW:

Inlet Pressure PSIG**	Airflow FT ³ / H
7.3	100.0
14.5	197.0
21.8	309.0
36.3	521.0
72.7	929.0

** PSIG = pounds per square inch gauge

F = Female Connection

M = Male Connection

¹ CGA Class "B" Connection

² CGA Connection used by Railroads



FOR SMALL APPLICATIONS

"A" Size Flashback Arrestors

SuperFlash offers flashback arrestors with CGA "A" size connections (3/8"-24UNF) for use with HVAC torches and regulators, jewelry, aircraft torches and regulators, or any application using equipment with CGA "A" size connections. These flashback arrestors still offer all the benefits of our standard flashback arrestors, just with a size convenient for your smaller torches and regulators. All SuperFlash flashback arrestors are 100% tested in our facilities for flashback protection, reverse flow protection and against leaks.



MINI GG

MINI DG



CONNECTION

TYPE OF GAS	MODEL	INLET	OUTLET	PART NO.
Fuel Gas (LH)	Mini-GG (A size torch)	3/8" UNF ² M	3/8" UNF ² F	0701-3200
Oxygen (RH)	Mini-GG (A size torch)	3/8" UNF ² M	3/8" UNF ² F	0701-3201
Fuel Gas (LH)	Mini-DG (A size regulator)	3/8" UNF ² F	3/8" UNF ² M	0701-3210
Oxygen (RH)	Mini-DG (A size regulator)	3/8" UNF ² F	3/8" UNF ² M	0701-3211

"A" Size Check Valves

With the small size and light weight the CGA "A" size check valve is especially designed for miniature soldering and welding equipment. Typical uses are refrigeration, jewelry, and other small repairs requiring small torches with CGA "A" connections. Low check valve cracking pressure of 1 PSIG (65-70 mbar).



CHECK VALVES

CONNECTION

TYPE OF GAS	MODEL	INLET	OUTLET	PART NO.
Fuel Gas (LH)	Check Valve (A size torch)	3/8" UNF ² M	3/8" UNF ² F	0701-3220
Oxygen (RH)	Check Valve (A size torch)	3/8" UNF ² M	3/8" UNF ² F	0701-3221

F = Female Connection M = Male Connection ² CGA Class "A" Connection

SPECIALTY ARRESTORS

Resettable Flashback Arrestors

Top of the line models DS-1000 and DS-2000 flashback arrestors easily mount on most regulators or supply points and have a resettable pressure control valve that cuts off gas supply in the event of flashback or reverse gas flow. Resetting is easy — just pull up on the pressure control knob — no disassembly or special tools are required. The DS-2000 features high gas flow capacity, built in 100 micron inlet screen, reverse flow check valve, flame barrier and thermal shut off.



DS-1000



DS-2000

DS-1000:

CONNECTION

TYPE OF GAS	INLET	OUTLET	PART NO.
Fuel Gas (LH)	9/16" UNF ¹ F	9/16" UNF ¹ M	0701-3600
Oxygen (RH)	9/16" UNF ¹ F	9/16" UNF ¹ M	0701-3601

DS-2000:

CONNECTION

TYPE OF GAS	INLET	OUTLET	PART NO.
Fuel Gas (LH)	9/16" UNF ¹ F	9/16" UNF ¹ M	0701-3905
Oxygen (RH)	9/16" UNF ¹ F	9/16" UNF ¹ M	0701-3907

DS-1000 AIRFLOW:

Inlet Pressure PSIG**	Airflow FT ³ / H
7.3	126.0
14.5	223.0
21.8	311.0
36.3	491.0
72.7	1004.0

DS-2000 AIRFLOW:

Inlet Pressure PSIG**	Airflow FT ³ / H
7.3	231.0
14.5	465.0
21.8	725.0
36.3	1041.0
72.7	1933.0

** PSIG = pounds per square inch gauge

F = Female Connection

M = Male Connection

¹ CGA Class "B" Connection

Stainless Steel Flashback Arrestors

In addition to our standard high flow stainless steel flashback arrestor (model DG91NSS), we now offer three additional versions to cover a much larger range of flow rates and situations. Choose from our model DGN for standard flow applications all the way up to our models ESF and Demax designed for high flow manifold applications. Now no matter what application you have, we can provide a flashback arrestor made from stainless steel and suitable for use with higher purity gases, and in more demanding environments.

Stainless steel flashback arrestors are designed for oxygen, hydrogen and other flammable gases were all stainless steel type 316 with Viton or other elastomers are desirable. These arrestors are standard with NPT connections; however they can be specially adapted and tested in our lab with a wide variety of connections, including Swagelok tube fittings.



For
LABS
and
R & D

FOR HIGH FLOW APPLICATIONS

High Flow Torch and Regulator Mount Flashback Arrestors

Due to the recent increase in popularity of alternate fuel gases for oxyfuel welding, cutting and brazing, some gas users may need to re-evaluate their gas flow requirements. Brazing or cutting with some alternate fuel gases, such as propane, can require a much higher oxygen flow than a similar operation done with acetylene. It is important to make sure you are always getting enough gas flow to maintain your productivity, efficiency, and safety.

SuperFlash Compressed Gas Equipment offers High Flow Flashback Arrestors for use on both the torch side and the regulator side. These arrestors can give users flow rates that are twice as much as a standard flashback arrestor. This will help users avoid choking out tips or equipment, which can lead to serious problems.



Ideal for use with size 4 tip or larger!



Ideal for use with size 4 tip or larger!

Model DG91N

CONNECTION			
TYPE OF GAS	INLET	OUTLET	PART NO.
Fuel Gas (LH)	9/16" UNF ¹ F	9/16" UNF ¹ M	0701-1123
	RR 41/64" ² F	RR 41/64" ² M	0701-1118
	7/8" UNF ³ F	7/8" UNF ³ M	0701-3057
Hydrogen (LH)	9/16" UNF ¹ F	9/16" UNF ¹ M	0701-3093 *
Oxygen (RH)	9/16" UNF ¹ F	9/16" UNF ¹ M	0701-1129
	RR 41/64" ² F	RR 41/64" ² M	0701-1119
	7/8" UNF ³ F	7/8" UNF ³ M	0701-3058

Model DG91UA

CONNECTION			
TYPE OF GAS	INLET	OUTLET	PART NO.
Fuel Gas (LH)	9/16" UNF ¹ M	9/16" UNF ¹ F	0701-3021
	7/8" UNF ³ M	7/8" UNF ³ F	0701-3054
Oxygen (RH)	9/16" UNF ¹ M	9/16" UNF ¹ F	0701-3022
	7/8" UNF ³ M	7/8" UNF ³ F	0701-3055

* Model DG91NH Hydrogen 143 PSIG

F = Female Connection

M = Male Connection

¹ CGA Class "B" Connection

² CGA Connection used by Railroads

³ CGA Class "C" Connection

How often should I replace my flashback arrestors?

The average lifespan of a typical flashback arrestor is 18 months, depending on average use, by CGA and OSHA requirements for industrial applications. We recommend testing the check valve for reverse flow at least once a year.

Visit our website for more information: www.oxyfuelsafety.com



FBA / QC COMBINATIONS

Quick Connectors with Flashback Arrestors

Quick connector with flashback arrestor models DKSG/D1 (for torches) and the DGNDK/D4 (for regulators) make set up and take down of equipment easy. They use durable stainless steel coupling pins to resist abrasion and provide years of service. Each model's inlet filter, reverse flow check valve, flame barrier, (and the regulator model's thermal shut off) help meet safety guidelines such as ANSI Z49.1:2012 and OSHA requirements.



Model DKSG/D1

FOR TORCH and POINT OF USE:

CONNECTION

TYPE OF GAS	INLET	OUTLET	PART NO.
Fuel Gas (LH)	9/16" UNF ¹ M	9/16" UNF ¹ F	0701-4033
Oxygen (RH)	9/16" UNF ¹ M	9/16" UNF ¹ F	0701-4038

BLISTER PACK SET:

CONNECTION

TYPE OF GAS	INLET	OUTLET	PART NO.
1 Fuel (LH) 1 Oxygen (RH)	9/16" UNF ¹ M	9/16" UNF ¹ F	616226-05012



Model DKSG/D4

FOR HOSE-TO-HOSE CONNECTION:

CONNECTION

TYPE OF GAS	INLET	OUTLET	PART NO.
Fuel Gas (LH)	9/16" UNF ¹ M	9/16" UNF ¹ M	0701-4044
Oxygen (RH)	9/16" UNF ¹ M	9/16" UNF ¹ M	0701-4049

Model DGNDK/D4

FOR REGULATORS and POINT OF USE:

CONNECTION

TYPE OF GAS	INLET	OUTLET	PART NO.
Fuel Gas (LH)	9/16" UNF ¹ F	9/16" UNF ¹ M	0701-4022
Oxygen (RH)	9/16" UNF ¹ F	9/16" UNF ¹ M	0701-4027

BLISTER PACK SET:

CONNECTION

TYPE OF GAS	INLET	OUTLET	PART NO.
1 Fuel (LH) 1 Oxygen (RH)	9/16" UNF ¹ F	9/16" UNF ¹ M	616226-05013

** PSIG = pounds per square inch gauge

F = Female Connection

M = Male Connection

¹ CGA Class "B" Connection

HIGH FLOW DRY TYPE

SIMAX and DEMAX Series of Flashback Arrestors

The SIMAX and DEMAX series of flashback arrestors provides a full range of dry (no water or fluid to check or replenish) flashback, gas reverse flow and hose burn back protection in a compact, economical package. They are approved safety devices under ANSI Z49.1:2012 safety guidelines and help meet OSHA, NFPA and other strict industry safety standards. They are ideal for high volume gas flow applications in pipelines and manifolds.

DEMAX Series

The DEMAX is designed for high gas volume pipelines and tapping points to help meet ANSI Z49.1 2012 safety guidelines, OSHA, NFPA and other strict industry standards. It can be used in manifold systems and pipelines. It includes an inlet filter, reverse flow check valve, flame barrier, and thermal shut off in one compact brass body. One (1") NPT female inlet and outlet makes installation easy. Plus a wide variety of connections can be factory installed including the CGA "C" size (7/8" – 14 LH or RH, Swagelock etc.), on request.

CONNECTION			
TYPE OF GAS	INLET	OUTLET	PART NO.
Fuel Gas (LH)	7/8" UNF ³ F	7/8" UNF ³ M	0701-3302
Fuel Gas	1" NPT F	1" NPT F	0701-3304
Oxygen (RH)	7/8" UNF ³ F	7/8" UNF ³ M	0701-3300
Oxygen	1" NPT F	1" NPT F	0701-3307

³ CGA Class "C" Connection



SIMAX Series

The SIMAX series of flashback arrestors provides a full range of dry type (no water or fluid to check or replenish) flashback, gas reverse flow, and hose burn back protection in a compact economical package. SIMAX series flashback arrestors are approved safety devices under ANSI Z49.1:2012 safety guidelines and help meet OSHA, NFPA, and other strict industry safety standards. They are ideal for high volume gas flow applications in pipelines and manifolds.





CONNECTION				
TYPE OF GAS	MODEL	INLET	OUTLET	PART NO.
Fuel Gas	SIMAX 3	1" NPT F	1" NPT F	0701-3270
	SIMAX 5	1" NPT F	1" NPT F	0701-3271
	SIMAX 8	1" NPT F	1" NPT F	0701-3279
Oxygen	SIMAX 3	1" NPT F	1" NPT F	0701-3191
	SIMAX 5	1" NPT F	1" NPT F	0701-3192
	SIMAX 8	1" NPT F	1" NPT F	0701-3197



SIMAX 5



- ✓ The best protection for your high-flow processes, without the high costs or checking liquid levels.
- ✓ Thermal shut off protection against burn backs and multiple flashbacks.
- ✓ More compact than liquid arrestors.
- ✓ Many different connections and flow rate options.

		FUEL	OXYGEN
	DEMAX	Demax for Fuel Gas Up to 2,600 ft³/hr airflow at 50 psig.	Demax for Oxygen Up to 7,600 ft³/hr oxygen flow at 143 psig.
	SIMAX 3	Simax 3 for Fuel Gas Up to 3,600 ft³/hr airflow at 50 psig.	Simax 3 for Oxygen Up to 9,215 ft³/hr oxygen flow at 143 psig.
	SIMAX 5	Simax 5 for Fuel Gas Up to 5,900 ft³/hr airflow at 50 psig.	Simax 5 for Oxygen Up to 14,250 ft³/hr oxygen flow at 143 psig.
	SIMAX 8	Simax 8 for Fuel Gas Up to 9,500 ft³/hr airflow at 50 psig.	Simax 8 for Oxygen Up to 23,750 ft³/hr oxygen flow at 143 psig.

▶ HIGHER FLOW

LIQUID TO GAS REFILLING SYSTEM

Grow Your Business and Control Costs Without Adding Additional Staff!

- ✓ Separate your medical oxygen filling from your industrial oxygen filling.
- ✓ Get all your required training easily from SuperFlash.
- ✓ Grow your medical oxygen business without adding staff.
- ✓ Perfect upgrade from your gas to gas filling station.
- ✓ Allows you to fill Oxygen, Nitrogen or Argon.



Liquid to gas Refilling System
OF-757

Case Study:

Trico Oxygen Company has been in the welding and industrial gas supply business since 1982 and, like many businesses, has faced challenges growing their business while providing the best services possible for their customers.

SuperFlash provided their team with all the training and support on regulation requirements needed. This turnkey assistance was a deciding factor in the purchase of their Liquid to Gas system.

With the system, Trico has now been able to grow their business while controlling costs and increasing their assets — all without adding additional staff.

“We wanted to control our costs and assets, so now we transfill in-house.

We had a great experience purchasing our Liquid to Gas system from SuperFlash Compressed Gas Equipment... I would do it all over again!”



~ Kevin Stutz

President/Owner
Trico Oxygen Company • Elyria, OH

CYLINDER MAINTENANCE

FORMULA SF1: Adhesive Remover



Remove dirt and adhesive from cylinder bodies and cryogenic vessels without harming the cylinder clear coat.



QUICK TIP

SuperFlash's Formula SF1 Adhesive Remover is powerful enough to remove the toughest adhesive and grime, but is designed not to harm oxygen and compressed gas cylinder bodies.

Follow directions on the label before use.

One Gallon (#1110-5520)
120 Count Wipes (#1110-5524)

G-4C: Oxygen Equipment Cleaner



Safely cleans valves and other surfaces which come into direct contact with oxygen, when used as directed.



QUICK TIP

SuperFlash's G-4C Oxygen Equipment Cleaner can be used to clean for oxygen service when used in accordance with CGA standard G-4.1-Titled: Cleaning Equipment for Oxygen Service.*

One Gallon (#1101-0026)
120 Count Wipes (#1101-0022)

LTS: Leak Test Solution



Oxygen-safe leak testing solution is perfect for use with any gas connection.



QUICK TIP

Using soap and water for leak testing is not only dangerous, but the residue it leaves behind can also corrode or damage the cylinder valve.

SuperFlash's Leak Test Solution leaves no residues, and meets MIL Spec PRF-25567E.

One Gallon (#1110-1023)
8 oz. Container (#1110-1022)

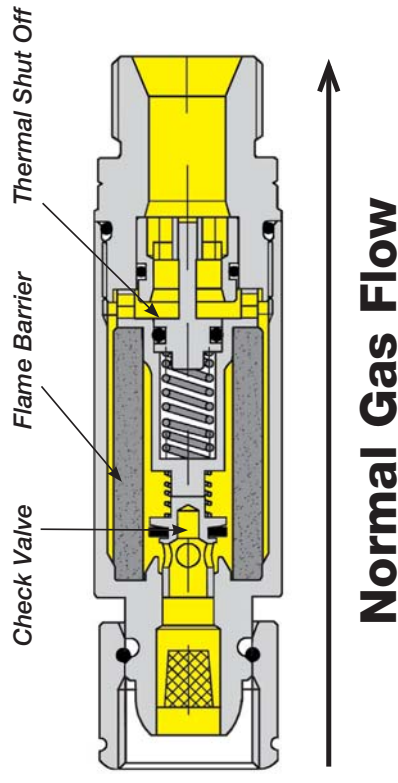
*Available from SuperFlash, PN: OF-1040 or www.cganet.com



FLASHBACK ARRESTORS

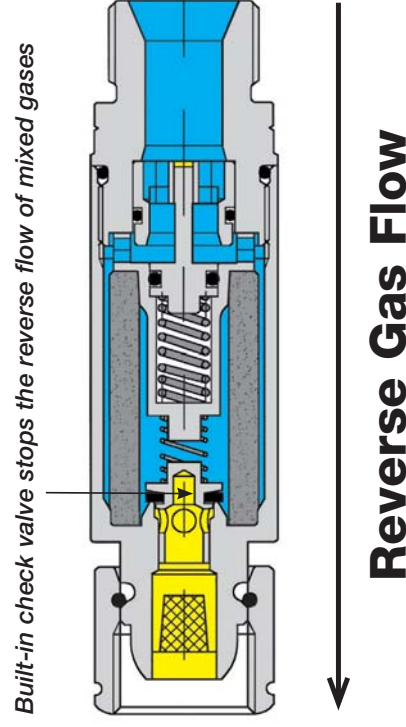
1.

Normal gas flow moving through the flashback arrestor to torch, hose or pipeline, **shown in yellow**.



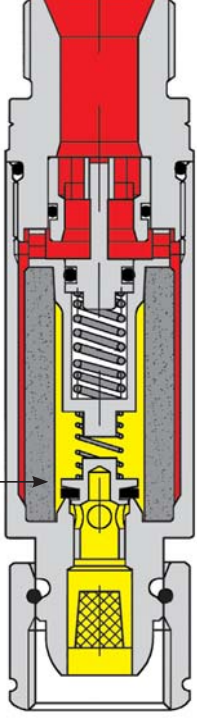
2.

The reverse flow of an explosive mixture of gases is stopped by the flashback arrestor's built-in check valve, **shown in blue**. Reverse flow of gases is often caused by operator error, improper gas pressures, faulty or defective equipment, obstruction at or after the point where gases mixed.



3.

A flashback occurs when the mixed gases are ignited, **shown in red**. The flashback causes a rapid flame propagation upstream to the equipment and gas supply. The flame barrier stops the flashback. Flashback can cause serious personal injury and /or equipment damage.

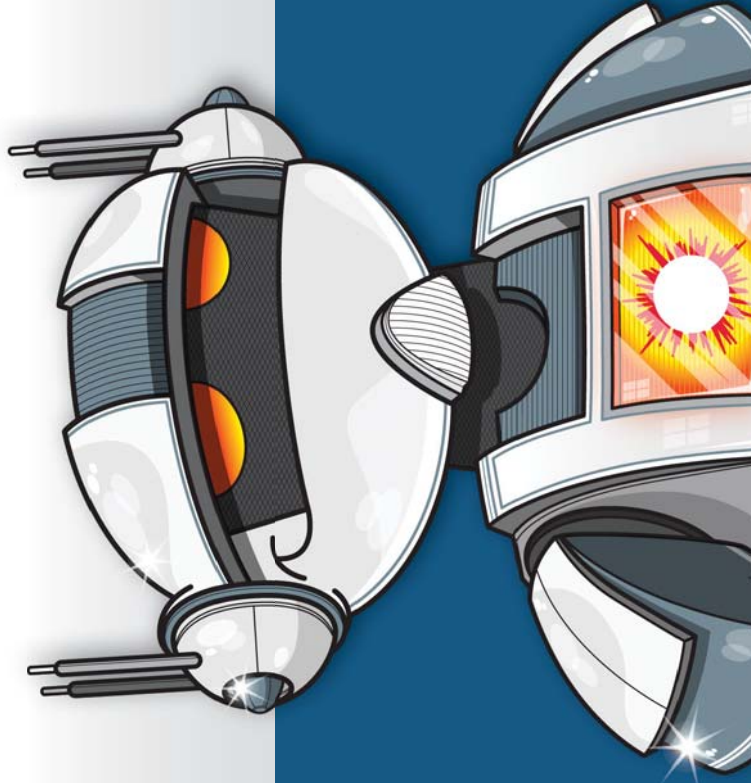
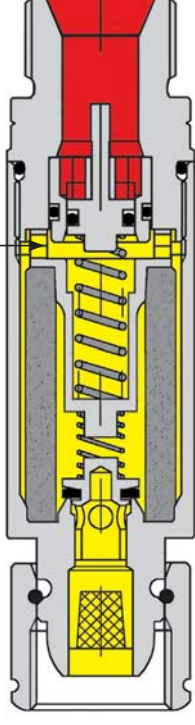


Flashback

4.

Hose burn back is an oxygen enriched fire (or fuel gas decomposition) in the hose or pipeline which flows back to the equipment and gas supply, **in red**. The thermal shut off stops the hose burn back.

Thermal shut off cutting off gas flow to fire*



Hose Burn Back

* Regulator and Point-of-Supply (in line) arrestors only

Operating temperature range of gases:
-20° F to 140° F

Scan the QR code to see our flashback arrestor demo.



← Scan Me!

www.oxyfuelsafety.com

SuperFlash®
COMPRESSED GAS EQUIPMENT

STANDARD QUICK CONNECTORS

Quick connectors make setting up and taking down equipment faster and easier. They automatically cut off gas flow when disconnected, have all brass construction with durable stainless steel coupling pins and they meet ISO 7289 and EN 561 standards. SuperFlash Industrial Quick Connectors are leaders in the industry.

- ✓ **Stainless steel pin:** Most competitors use a brass pin which can be easily damaged. The stainless steel pin is designed to stand up to everyday use.
- ✓ **Push-to-Pull release:** Meets OSHA requirements for shipyard and construction usage, plus helps to prevent accidental disconnect that can happen with standard QC.
- ✓ **Automatic gas shutoff:** Gas flow stops when pin is disengaged from coupling.
- ✓ **Tested with 6000 makes and breaks:** SuperFlash quick connectors keep going strong — even after we've tested them 5000 more times than the competition, proving they can stand up to heavy duty applications.



DKG



DKD

DKG
INERT GAS

Models DKG / DKD

The Model DKG and DKD allows for quick connecting and disconnecting of hose when frequently changing assignments with or without changing tools. Incorporates a push/pull technology that helps meet OSHA specifications for construction, shipyards, etc.

DKG/D1 for TORCHES and POINT OF USE:

TYPE OF GAS	INLET	OUTLET	QC + PIN	SOCKET ONLY	PIN ONLY
Fuel Gas (LH)	9/16" UNF ¹ M	9/16" UNF ¹ F	0701-4983	0701-4483	0069-4003
Oxygen (RH)	9/16" UNF ¹ M	9/16" UNF ¹ F	0701-4992	0701-4492	0069-4008

DKD/D4 for REGULATORS and POINT OF SUPPLY:

TYPE OF GAS	INLET	OUTLET	QC + PIN	SOCKET ONLY	PIN ONLY
Fuel Gas (LH)	9/16" UNF ¹ F	9/16" UNF ¹ M	0701-4993	0701-4093	0069-4204
Oxygen (RH)	9/16" UNF ¹ F	9/16" UNF ¹ M	0701-4999	0701-4099	0069-4214

Also available in point of purchase packaging.

For Use With Inert Gas

SuperFlash inert gas quick connectors are ideal for quick setup or take down of inert gas lines for your welding process. All of the SuperFlash inert gas quick connectors use a stainless steel pin and double O-ring seal to provide maximum lifespan and have a 'push then pull' connection style, which helps to eliminate accidental disconnections, and automatically stops gas flow when the pin is disengaged from the coupling.

DKG/D1 INERT GAS REGULATOR TO HOSE:

TYPE OF GAS	INLET	OUTLET	QC + PIN	SOCKET ONLY	PIN ONLY
Inert Gas (RH)	5/8" UNF F	5/8" UNF M Socket	0701-7091	0701-7093	0701-7094

DKG/D1 INERT GAS MACHINE TO HOSE:

TYPE OF GAS	INLET	OUTLET	QC + PIN	SOCKET ONLY	PIN ONLY
Inert Gas (RH)	5/8" UNF M Nipple	5/8" UNF F	0701-7100	0701-7102	0701-7103

LARGE CONNECTIONS



GKG / G1

GKG / G1 for TORCHES and POINT-OF-USE with 3/8" HOSE:

TYPE OF GAS	INLET	OUTLET	QC + PIN	SOCKET ONLY
Fuel Gas (LH)	7/8" UNF ³ M	7/8" UNF ³ F	0515-0680	0515-0310
Oxygen (RH)	7/8" UNF ³ M	7/8" UNF ³ F	0515-0690	0515-0340

GKG / G1 for TORCHES and POINT-OF-USE with 1/2" HOSE:

TYPE OF GAS	INLET	OUTLET	QC + PIN	SOCKET ONLY
Fuel Gas (LH)	7/8" UNF ³ M	7/8" UNF ³ F	0515-0685	0515-0360
Oxygen (RH)	7/8" UNF ³ M	7/8" UNF ³ F	0515-0695	0515-0380



GKT / G2

GKT / G2 for IN LINE APPLICATION with 3/8" HOSE:

TYPE OF GAS	INLET	OUTLET	QC + PIN	SOCKET ONLY
Fuel Gas (LH)	8 mm Barb	8 mm Barb	0515-0615	0515-0110
Oxygen (RH)	8 mm Barb	8 mm Barb	0515-0635	0515-0130

GKT / G2 for IN LINE APPLICATION with 1/2" HOSE:

TYPE OF GAS	INLET	OUTLET	QC + PIN	SOCKET ONLY
Fuel Gas (LH)	12 mm Barb	12 mm Barb	0515-0645	0515-0150
Oxygen (RH)	12 mm Barb	12 mm Barb	0515-0665	0515-0170



GKD / G4

GKD / G4 for REGULATORS and POINT-OF-SUPPLY with 3/8" HOSE:

TYPE OF GAS	INLET	OUTLET	QC + PIN	SOCKET ONLY
Fuel Gas (LH)	7/8" UNF ³ F	7/8" UNF ³ M	0515-0720	0515-0210
Oxygen (RH)	7/8" UNF ³ F	7/8" UNF ³ M	0515-0745	0515-0240

GKD / G4 for REGULATORS and POINT-OF-SUPPLY with 1/2" HOSE:

TYPE OF GAS	INLET	OUTLET	QC + PIN	SOCKET ONLY
Fuel Gas (LH)	7/8" UNF ³ F	7/8" UNF ³ M	0515-0760	0515-0260
Oxygen (RH)	7/8" UNF ³ F	7/8" UNF ³ M	0515-0785	0515-0280

Pins

G1 PIN for TORCHES and POINT-OF-USE

TYPE OF GAS	HOSE SIZE	INLET	OUTLET	PART NO.
Fuel Gas (LH)	3/8"	8 mm Coupling Pin	7/8" UNF ³ F	0069-4700
Oxygen (RH)	3/8"	8 mm Coupling Pin	7/8" UNF ³ F	0069-4750
Fuel Gas (LH)	1/2"	12 mm Coupling Pin	7/8" UNF ³ F	0069-4710
Oxygen (RH)	1/2"	12 mm Coupling Pin	7/8" UNF ³ F	0069-4760

G2 PIN for IN LINE APPLICATION

TYPE OF GAS	HOSE SIZE	INLET	OUTLET	PART NO.
Fuel Gas (LH)	3/8"	8 mm Coupling Pin	8 mm Barb	0069-4703
Oxygen (RH)	3/8"	8 mm Coupling Pin	8 mm Barb	0069-4753
Fuel Gas (LH)	1/2"	12 mm Coupling Pin	12 mm Barb	0069-4713
Oxygen (RH)	1/2"	12 mm Coupling Pin	12 mm Barb	0069-4763

G4 PIN for REGULATORS and POINT-OF-SUPPLY

TYPE OF GAS	HOSE SIZE	INLET	OUTLET	PART NO.
Fuel Gas (LH)	3/8"	8 mm Coupling Pin	7/8" UNF ³ M	0069-4705
Oxygen (RH)	3/8"	8 mm Coupling Pin	7/8" UNF ³ M	0069-4755
Fuel Gas (LH)	1/2"	12 mm Coupling Pin	7/8" UNF ³ M	0069-4715
Oxygen (RH)	1/2"	12 mm Coupling Pin	7/8" UNF ³ M	0069-4765

GAS MIXERS

The SuperFlash Mini-PGM 2-gas adjustable gas mixer allows users to mix their own gases at almost any ratio needed to fit their process requirements!

This means users are able to customize and use their own desired mixture, without having to purchase pre-mixed gases. Weighing 7.5 lbs and using less than 1 ft³ of space, the Mini-PGM is one of the most compact mixers available and will provide enough gas for eight (8) welding machines at approximately 40-50 SCFH per machine!

The Mini-PGM is available in a variety of 2-gas combinations including Ar/CO₂, Ar/He, Ar/O₂, N/O₂ and several others. We can configure a mixer to use with almost any technical or atmospheric gas – please contact us to request more information on a mixer designed to meet your specific gas needs.

- ✓ **No external power source necessary.**
- ✓ **Adjusted instantly with one dial.**
- ✓ **Low maintenance.**
- ✓ **Covered with a one year warranty.**



MINI-PGM model
0801-4410 for Ar/CO₂

MODEL	PART NO.
Argon/Helium Gas Mixer, 0-100% Helium	0801-4420
Nitrogen/Helium Gas Mixer, 0-100% Helium	0801-4429
Argon/Oxygen Gas Mixer, 0-100% Oxygen	0801-4430
Nitrogen/CO ₂ Gas Mixer, 0-100% CO ₂	0801-4435
Compressed Air/CO ₂ Gas Mixer, 0-100% CO ₂	0801-4440
Hydrogen/Nitrogen Gas Mixer, 0-100% Hydrogen	0801-4450

Technical Data:

Use Location	Indoors
Operating Temperature.....	20°F to 100°F (-7°C to 38°C)
Storage Temperature.....	0°F to 120°F (-18°C to 49°C)
Weight	7.5 lbs
Gas Inlet Temperature Range.....	4°F to 113°F
Inlet Pressure Range	36 PSIG to 145 PSIG
Difference Between The Gas Inlet Pressures	Max 43 PSI
Gas Inlet/Outlet Ports.....	1/4" NPT (F)

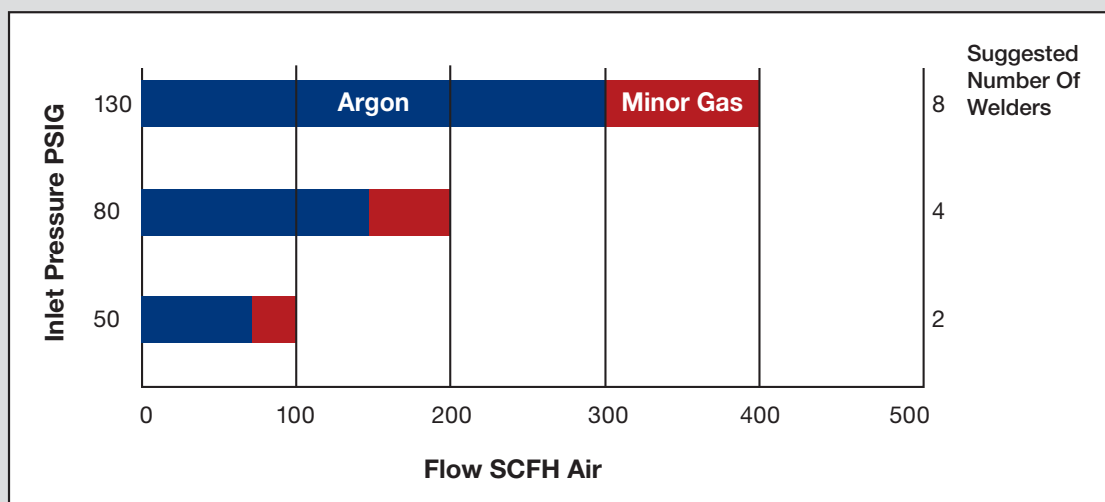
Example Pressure Settings:

Gas Inlet Pressure	80 PSIG
Operating Pressure.....	58 PSIG (should be at least 22 psi below inlet pressure)
Max mixed gas flow at these pressures	216 SCFH @ 22 PSIG outlet pressure (mixed gas flow valve at 100%)
Min mixed gas flow at these pressures	43.2 SCFH @ 22 PSIG outlet pressure (mixed gas flow valve at 20%)



Wall mounted Mini-PGM setup to deliver mixed gases from separate cylinders.

EXAMPLE FLOW OUTPUT



Make your gas customer more productive... before your competitor does.

Cost savings can range from 10 to 15% or more, depending on how gas is purchased — just by mixing on site. A SuperFlash gas mixer can pay for itself in a matter of months, or even quicker when gas is purchased in bulk. Take a look below for some example cost savings.

ESTIMATED SAVINGS

Estimated savings based on purchase of 'T' size C-25 vs. purchase of 'T' size Argon and 50 lbs. tank of CO₂

Number of Welders	Weekly Usage (ft ³)	C-25 Cylinders Used Per Week	Pre-mixed Cost	Self-mixed Cost	Weekly Savings	Annual Savings
2	1600	4.2	\$214.74	\$184.80	\$29.94	\$1,556.72
5	4000	10.5	\$536.84	\$462.00	\$74.84	\$3,891.79
8	6400	16.8	\$858.95	\$739.20	\$119.75	\$6,226.86
10	8000	21.1	\$1,073.68	\$924.00	\$149.68	\$7,783.58
15	12000	31.6	\$1,610.53	\$1,386.00	\$224.53	\$11,675.37

Assumptions:

- 40 SCFH usage per welder
- Cost of Ar = \$13.40/100ft³
- C-25 Tank refill = \$51
- 50% usage cycle over 40 hour week
- Cost of CO₂ = \$.516/lb

CUSTOM HEATING SOLUTIONS

Are you satisfied with your current heating techniques? Do you have a heating process that you want to optimize? SuperFlash Compressed Gas Equipment can help by designing a customized heating solution so that you can focus on your production. Custom heating products give you predictable, reliable and repeatable results for all your heating processes.

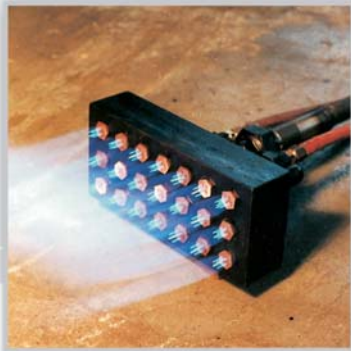
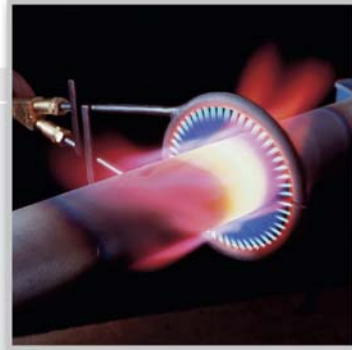
Don't waste time and energy using rosebuds to heat large areas or specially shaped surfaces. Whether it is for flame hardening, pre or post weld heating, straightening, or fusing surface materials... call, email or complete and return the attached Guaranteed Rapid Response Request Form to find out how we can build a heating solution to maximize your productivity and give you dependable and repeatable results today.

All custom heating solutions are built to order using the highest quality materials and production methods, all while conforming to international standards such as ISO and BAM.

Examples of burner applications include:

- ✓ **Ring burners with or without swivel connections for pipes ranging from 1" to 100" diameter or larger.**
- ✓ **Large sized lane burners for straightening or concrete cleaning.**
- ✓ **Custom shaped multiple rosebud configurations for metal or glass shaping.**

Contact us today for more information: sales@oxyfuelsafety.com | 1-888-327-7306



Guaranteed Rapid Response Request Form

Guaranteed Response Within 24 Hours or Deduct \$100* USD from Your First Order

Instructions: Please complete all the information below for the custom heating, manifold, flashback arrestor, and / or N₂/O₂ refilling system. Or e-mail this information to sales@oxyfuelsafety.com and mention the Guaranteed Rapid Response Request. Within one (1) business day, we guarantee a response in the form of a written quotation or a written response with a date on which you will receive a written quotation. If we fail to respond within the period we will authorize a \$100 USD or 10% discount which ever is less from your first order. Our response will be in the form of a fax, e-mail, or first class letter mailed within 24 hours or one business day.

Contact Name: _____ Email: _____

Company Name: _____ Date of request: _____

Address 1: _____ Address 2: _____

City: _____ State: _____ ZIP: _____

Phone: _____ Fax: _____

1. Description of application:

2. Size and description of work piece (heating application), gas flow in SCFH (for manifolds and flashback arrestors), or number filled per week and type of cylinders for refilling systems:

3. Desired temperature range (heating applications only): _____

4. Heating cycle time desired (heating applications only): _____

5. Gas(es) (air, oxygen, fuel gases, etc.): _____

6. Gas pressures desired (flashback arrestors, manifolds, refilling systems): _____

7. Additional features for custom heating applications:

- a. Gas Supply Manifold: ☐ Yes ☐ No
- b. Installation at multiple locations: ☐ Yes ☐ No
- c. Safety elements: ☐ Yes ☐ No If yes, please list: _____
- d. Ignition Flame: ☐ Manual ☐ Automatic
- e. Automatic ignition with flame control: ☐ Yes ☐ No
- f. Temperature control: ☐ Yes ☐ No

8. Product delivery date(s) desired: _____

Subject to change without notice

THERMAL SPRAY EQUIPMENT

SuperFlash Compressed Gas Equipment carries a variety of combustion powder thermal spray equipment as well as parts and accessories for this type of equipment. With some of the highest quality and most durable equipment available, SuperFlash can help get you setup to spray for the first time, or provide you with the right repair parts for the SuperFlash, IBEDA, Hühne®, Bohler® or UTP® spray equipment you already own.

Mini Spray Jet

0301-1115

The Mini Spray Jet is designed for universal application where wear and corrosive protection have to be considered. They are suitable for both manual application and application with a manipulator (like robots or linear units). Mini Spray Jet's light weight makes it ideal for mobile and manual applications.

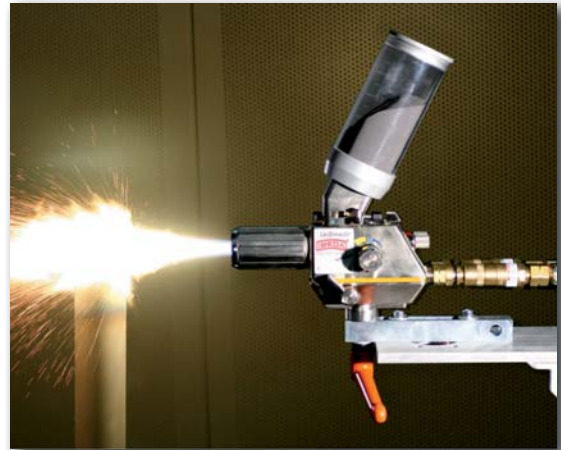


Uni Spray Jet

0301-1000

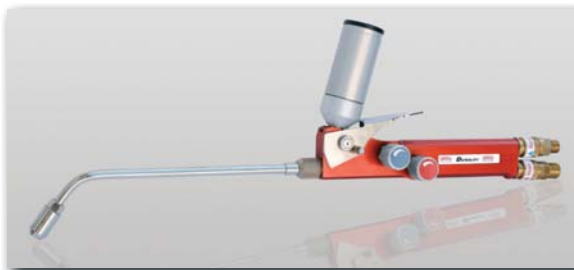
Combustion Powder spray torch for use with hot and cold process thermal spray using a variety of powders and substrates. The Uni Spray Jet has all the features of the Mini Spray Jet as well as increased durability and productivity features.

- ✓ Integrated powder transport system
- ✓ With the integrated gate valve many types of transport gases can be used
- ✓ Overhead position through removable and 180° changeable powder connection
- ✓ Just one powder connector with adjustable slider for different capacities
- ✓ Lever to turn gas on and off without changing the settings (Uni Spray Jet and Uni Spray Jet-SE)
- ✓ Model for connection of one external separate powder feeder (Uni Spray Jet-SE)



Duraloy & Duraloy Plus

0301-1131



Powder spray torch for thermal spraying with self-fluxing alloys and melting at the same time. Most types of metal can be coated with the Duraloy and the Duraloy Plus torch, provided that the melting point is higher than the working temperature of the alloy. During the operation, the powder particles pass through the flame and onto the surface of the work piece. The bonding is achieved by fusion with the parent metal. In comparison to the Duraloy, the Duraloy Plus torch offers an even more comfortable handling by the integrated quick action shut-off valve.

When operation is interrupted, the gas mixture, which was adjusted previously, is maintained. Therefore, it is not necessary to spend any time re-adjusting the mixture when setting up the re-operation. This is advantageous for applications with frequent interruptions of work.

LINE DROP ACCESSORIES

Line Drops are available from SuperFlash to meet your needs. Contact our customer service department if you have special requirements. All line drops come complete with in-line shut-off valve, drip leg and outlet cap and chain. No assembly required. Available in 1/2" or 3/4" pipe with CGA "C" size, 7/8" Male outlet connection. SuperFlash carries line drops for many gas services, including Acetylene, Argon, CO₂, Compressed Air, Helium, Hydrogen, Nitrogen, Nitrous Oxide, Oxygen, Propane, LPG, and Fuel Gas.

Line Valve / Valve Bypass



0401-6081

LINE VALVE:

Replacement line valve for line drops with a maximum working pressure of up to 600 PSIG. It is cleaned for O₂, has a steel handle, Teflon® Seals, bronze body, and chrome plated ball.



0401-6099

LINE VALVE BYPASS:

Install a bypass valve when performing line maintenance and you can continue to operate off a reserve gas supply while working on your manifold.



LDA-1-1

LDA-2-10

LDA-1-9

Line Station Regulators

LINE STATION REGULATOR

APPLICATIONS	PRESSURE	CAPACITY	INLET	OUTLET	PART NO.
Oxygen	0 - 125	760	7/8" - 14 RH, CGA-024	9/16" - 18 RH, CGA-022	0401-1100
Acetylene	0 - 15	420	7/8" - 14 LH, CGA-025	9/16" - 18 LH, CGA-023	0401-1101
Fuel Gas	0 - 50	640	7/8" - 14 LH, CGA-025	9/16" - 18 LH, CGA-023	0401-1102
Oxygen	0 - 50	600	7/8" - 14 RH, CGA-024	9/16" - 18 RH, CGA-022	0401-1104
Oxygen	0 - 200	475	7/8" - 14 RH, CGA-024	9/16" - 18 RH, CGA-022	0401-1105

(PSIG)

(SCFH)



0401-1100

HIGH VOLUME INLINE REGULATOR

DELIVERY PRESSURE	CAPACITY	GAGUE PRSSURE	INLET / OUTLET (F)	PART NO.
5 - 55	3000	0 - 100	1/2" NPT	0401-1300
40 - 110	11000	0 - 200	3/4" NPT	0401-1301
40 - 110	5000	0 - 200	1/2" NPT	0401-1302
100 - 200	3500	0 - 400	1/2" NPT	0401-1303
100 - 200	6000	0 - 400	3/4" NPT	0401-1304
100 - 200	6000	0 - 400	1" NPT	0401-1305

(PSIG)

(SCFH)



0401-1302

MANIFOLDS

Pressure Manifold Changeover

SuperFlash's manifold changeover is simple and easy to use. Prevent down time and the possible problem of running out of gas with this easy to use solution. When the cylinder batch is depleted, the manifold switches over to a reserve bank of cylinders. After replacing the cylinders the operator resets the unit simply by turning the lever.

For Gas



- Electrical - 115 v. (AC)
- Master shut off valves included
- All systems include stainless braided pigtails with PTFE lined inner core except Helium and Hydrogen systems which have a thermoplastic inner core.
- Acetylene systems include: 300 SCFH flashback arrestor and piping. Stainless steel braided pigtails with individual flashback arrestors and check valves.
- Connects to remote alarm systems. Up to 3 amps 30 v. (DC) or 2 amps 250 v. (AC)
- Manifold outlet - 1/2" NPT
- Relief valve outlet - 3/4" NPT
- 1/2" brass headers

For Liquid



- 240 Series for use with 235 PSIG relief valve liquid cylinders
- 240HP Series for use with 350 PSIG relief valve liquid cylinders
- Electrical - 115 v.
- Connects to remote alarm systems. Up to 3 amps 30 v. (DC) or 2 amps 250 v. (AC)
- Manifold outlet - 1/2" NPT
- Relief valve outlet - 1/4" NPT

Simplex Manifold System

The Model SMS simplex manifold system allows for a supply bank of cylinders to be connected together to allow for a larger volume of gas withdrawal. Typical applications with high flow requirements and liquid fuel gases. Operation is as simple as opening the cylinder valves and setting the regulator.



- Maximum inlet pressure 350 PSIG
- Includes adjustable line regulator:
MS 20-160 PSIG
Acetylene 0-15 PSIG
LPG 0-45 PSIG
MSHF 50-300 PSIG
- Manifold outlet: 1/2" NPT
- 24" or 36" flexible stainless steel pigtails with check valves
- 1/2" brass headers
- Simplex Acetylene systems includes flashback arrestor, pigtails, and check valves
- Available for Acetylene, CO₂, Nitrous Oxide, Air, Fuel Gases, Hydrogen, Oxygen, Argon/Nitrogen, Helium and Industrial Air

Duplex Manifold System

The Model DMS duplex manifold system allows for switching from a supply bank of cylinders to a reserve bank of cylinders instantly. Operation is as simple as opening the appropriate header valve when a bank gets low and replacing the empty bank's cylinders.



- Maximum inlet pressure 3000 PSIG
- Acetylene systems (CGA 510) include dry type flash arrestors on pigtail end
- All systems include Stainless Braided pigtails with PTFE lined inner core except those for Helium and Hydrogen which have a thermoplastic inner core
- Available for Acetylene, CO₂, Nitrous Oxide, Air, Fuel Gases, Hydrogen, Oxygen, Argon/Nitrogen, Helium and Industrial Air

Custom Solutions for Any Application!

Contact us to create your custom manifold system. Specify pigtail configuration, number of cylinders, gases... and more! sales@oxyfuelsafety.com | 1-888-327-7306





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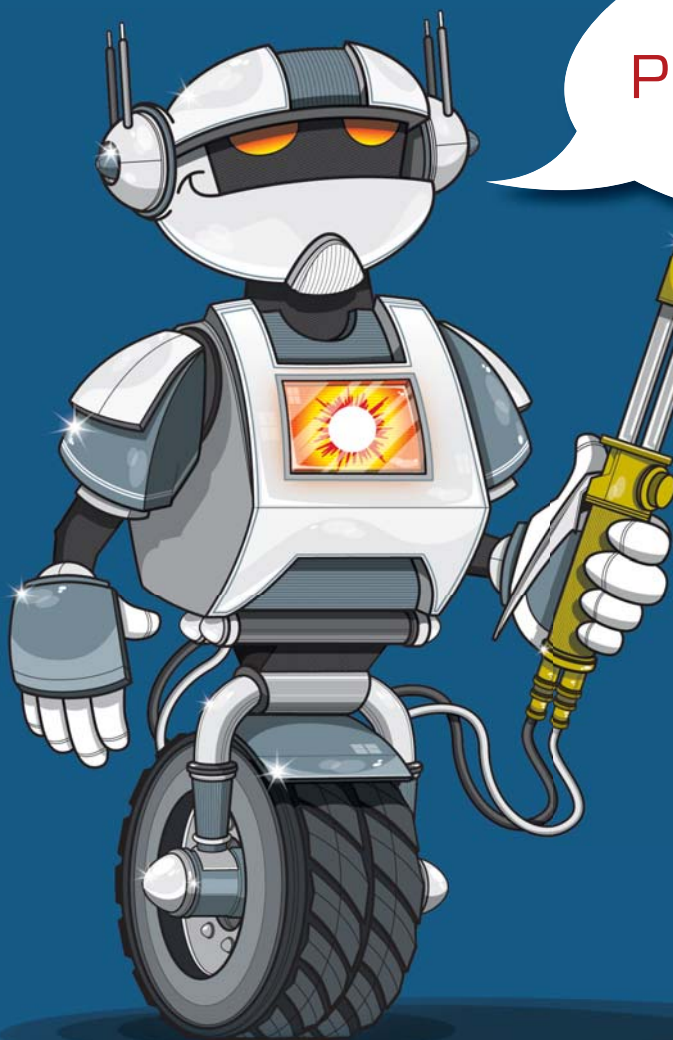
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ISSUE 3, 2013

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