



2 FUNCTION FLASHBACK ARRESTOR **GCE SAFE-GUARD-2**

EDITION 1/2015

The GCE SAFE-GUARD-2 / MV93 range of basic flashback arrestors are available for connecting to regulators, hose lines and to torches.

Manufactured to EN730-1 and designed to prevent flashbacks in oxy/fuel systems, they include the safety features of sintered flame arresting element (FA) to quench flashback plus non return valve (NV) to prevent reverse flow of gases.

FOUR MODELS ARE AVAILABLE FOR CONNECTION TO:

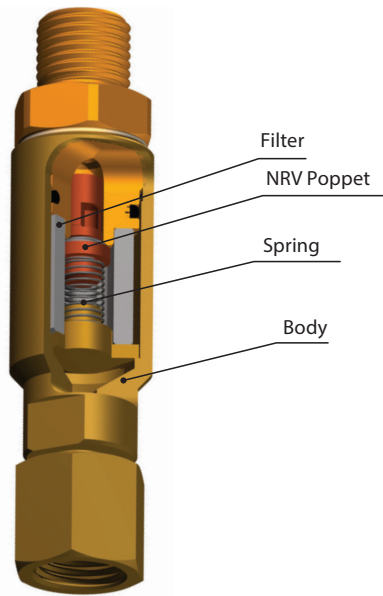
- Regulator
- Hose line to Hose line
- Torch to hose line
- Torch threaded inlet/outlet

Gas service; Oxygen (O) 10 bar, acetylene (A) 1.5 bar and hydrogen (H), propane (P) 5 bar, methane (M) 5 bar.



GCE SAFE-GUARD-2 AND MV 93

INTERNAL SAFETY DEVICES - MV 93



TECHNICAL DATA

GAS OPTIONS AND SERVICE PRESSURE

Right Hand	
Oxygen:	10 bar
Left Hand	
Acetylene:	1.5 bar
Hydrogen:	5 bar
Propane:	5 bar
Methane:	5 bar
Natural Gas:	5 bar
MPS:	5 bar
MAPP:	5 bar

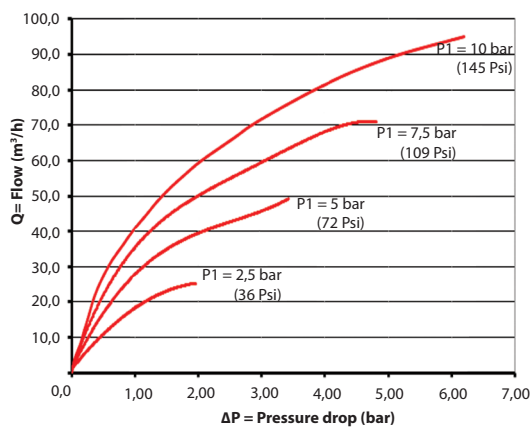
CONVERSION COEFFICIENT

	OXYGEN	HYDROGEN	ACETYLENE
Gas	O ₂	H ₂	C ₂ H ₂
Coefficient	× 0,95	× 3,75	× 1,04
	PROPANE	METHANE	ETHYLENE
Gas	C ₃ H ₈	CH ₄	C ₂ H ₄
Coefficient	× 0,8	× 1,33	× 1,02

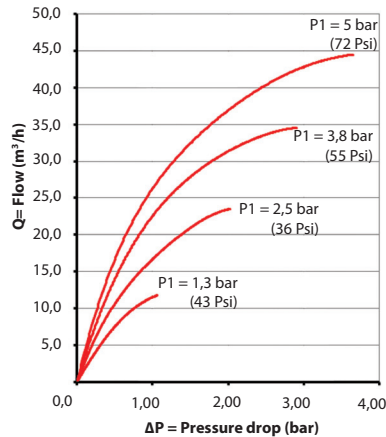
* Curves are measured by air and you have to convert by conversion coefficient.

FLOW CHART - FR20

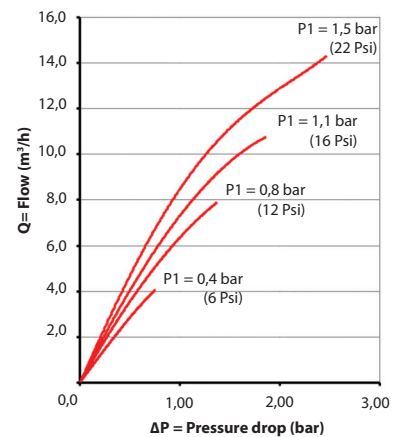
OXYGEN



PROPANE, METHANE, ETHYLENE

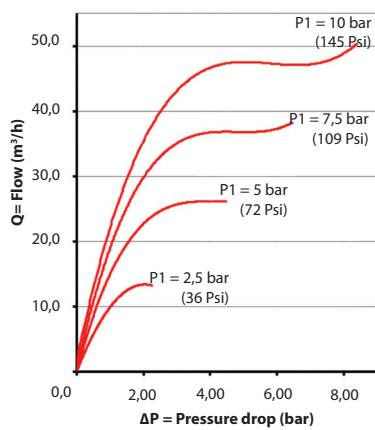


ACETYLENE

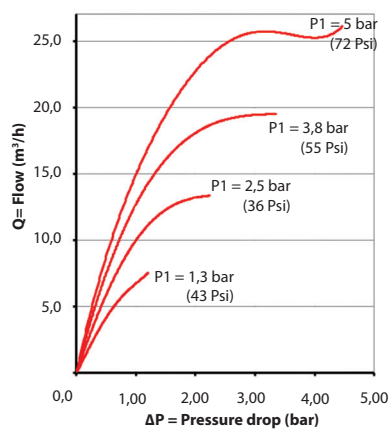


FLOW CHART - MV93

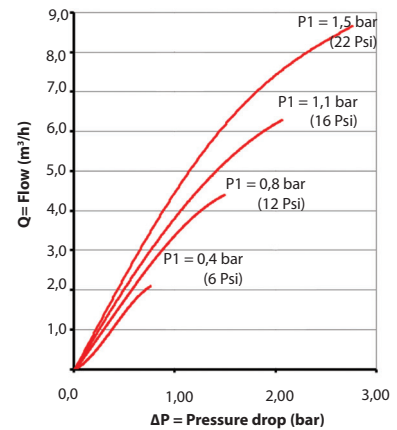
OXYGEN



PROPANE, METHANE, ETHYLENE



ACETYLENE





Art. Nr.	Gas	Connect to	Connecting	Inlet connection	Outlet connection	Pressure (bar)
81910	Oxygen	Torch	thread/thread	G1/4"	G1/4"	10
81900	Oxygen	Torch	thread/thread	G3/8"	G3/8"	10
0762495	Oxygen	Torch	thread/thread	9/16"	9/16"	10
81960	Fuel	Torch	thread/thread	G1/4" LH	G1/4" LH	1.5 (A) 5 (P)
81950	Fuel	Torch	thread/thread	G3/8" LH	G3/8" LH	1.5 (A) 5 (P)
0762496	Fuel	Torch	thread/thread	9/16" LH	9/16" LH	1.5 (A) 5 (P)
80910	Oxygen	Torch	hose/thread	6.3/10mm tube	G1/4"	10
80900	Oxygen	Torch	hose/thread	6.3/10mm tube	G3/8"	10
E0080900	Oxygen	Torch	hose/thread	6.3/10mm tube	M16x1,5	10
80960	Fuel	Torch	hose/thread	6.3/10mm tube	G1/4" LH	1.5 (A) 5 (P)
80950	Fuel	Torch	hose/thread	6.3/10mm tube	G3/8" LH	1.5 (A) 5 (P)
E0080950	Fuel	Torch	hose/thread	6.3/10mm tube	M16x1,5 LH	1.5 (A) 5 (P)



Art. Nr.	Gas	Connect to	Connecting	Inlet connection	Outlet connection	Pressure (bar)
H0081810	Oxygen	Regulator	thread/thread	G1/4"	G1/4"	10
F28410006	Oxygen	Regulator	thread/thread	G3/8"	G3/8"	10
0762497	Oxygen	Regulator	thread/thread	9/16"	9/16"	10
80205*	Oxygen	Regulator	thread/thread	G3/8"	G3/8"	10
0764451	Oxygen	Regulator	thread/thread	9/16"	9/16"	10
H0081850	Fuel	Regulator	thread/thread	G3/8" LH	G3/8" LH	1.5 (A) 5 (P)
0762498	Fuel	Regulator	thread/thread	9/16" LH	9/16" LH	1.5 (A) 5 (P)
80255*	Fuel	Regulator	thread/thread	G3/8" LH	G3/8" LH	1.5 (A) 5 (P)
0764452	Fuel	Regulator	thread/thread	9/16" LH	9/16" LH	1.5 (A) 5 (P)



80255

80205

E0080500	Oxygen	Regulator	thread/hose	M16x1,5	6.3/10mm tube	10
E0080550	Fuel	Regulator	thread/hose	M16x1,5	6.3/10mm tube	1.5 (A) 5 (P)

* special design



Art. Nr.	Gas	Connect to	Connecting	Inlet connection	Outlet connection	Pressure (bar)
80700	Oxygen	Hose	hose/hose	6.3/10mm tube	6.3/10mm tube	10
80750	Fuel	Hose	hose/hose	6.3/10mm tube	6.3/10mm tube	1.5 (A) 5 (P)



FR20

Art. Nr.	Gas	Connect to	Connecting	Inlet connection	Outlet connection	Pressure (bar)
0762216	Fuel	Torch	thread/thread	G3/8" right handed	G3/8" right handed	1.5 (A) 5 (P)
0762217	Fuel	Torch	thread/thread	G3/8" LH	G3/8" LH	1.5 (A) 5 (P)
0762220	Oxygen	Torch	thread/thread	G3/8"	G3/8"	10
0764427	Fuel	Torch	thread/thread	G1/4" LH	G1/4" LH	1.5 (A) 5 (P)
0762215	Oxygen	torch	thread/thread	G1/4"	G1/4" LH	
0762265		SET SP20				

GCE Group is one of the world's leading companies in the field of gas control equipment. The headquarters are in Malmö, Sweden, and the two major supply units are located in Europe and Asia.

The company operates 15 subsidiaries around the world and employs more than 900 people. GCE Group includes four business areas – Cutting&Welding technology, Valves, Healthcare and Druva. Today's product portfolio corresponds to a large variety of applications, from single pressure regulators and blowpipes for cutting and welding to sophisticated gas supply systems for medical and electronics industry applications.



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