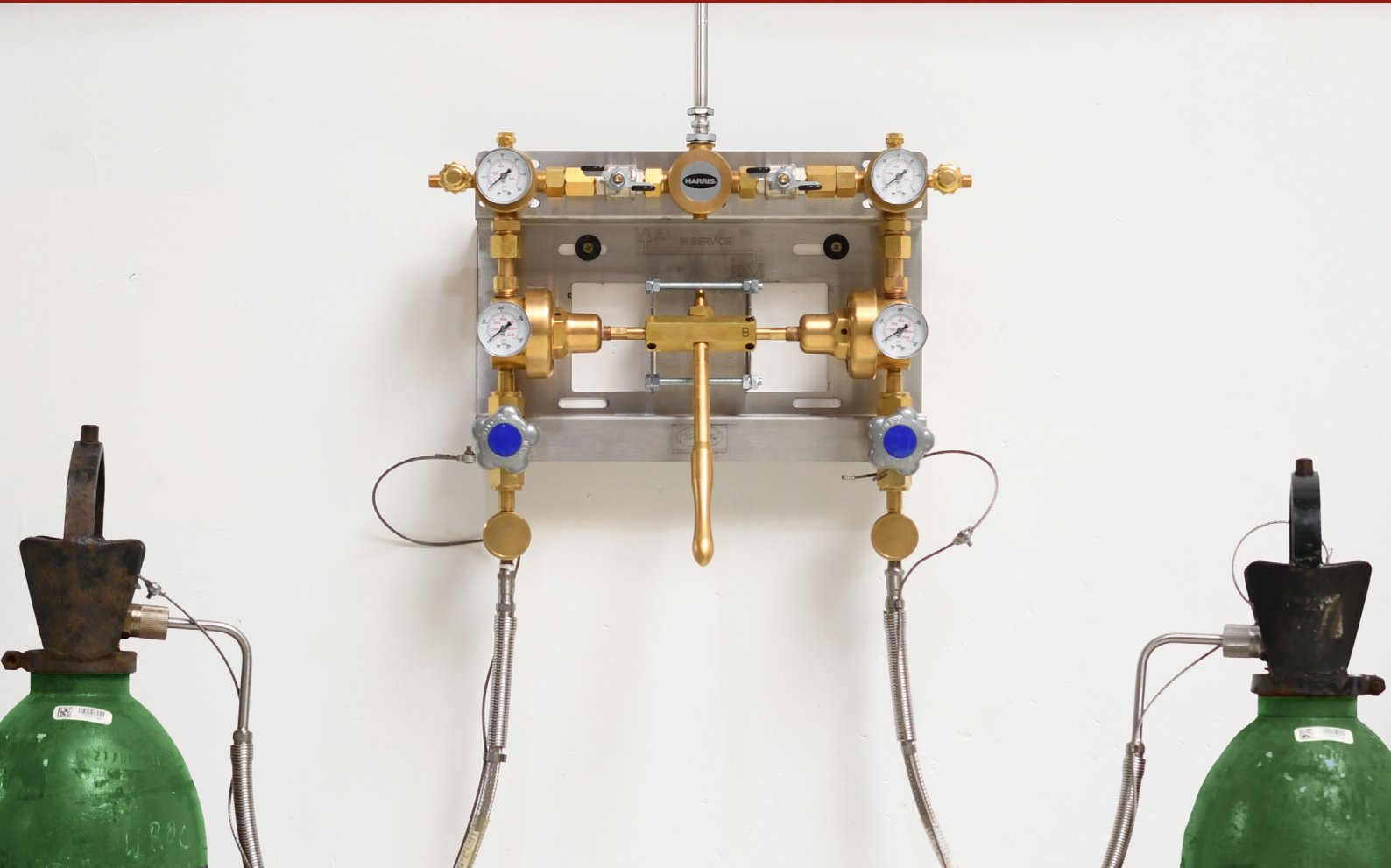




A LINCOLN ELECTRIC COMPANY

www.harrisproductsgroup.eu



Gas Distribution Systems

INDUSTRIAL

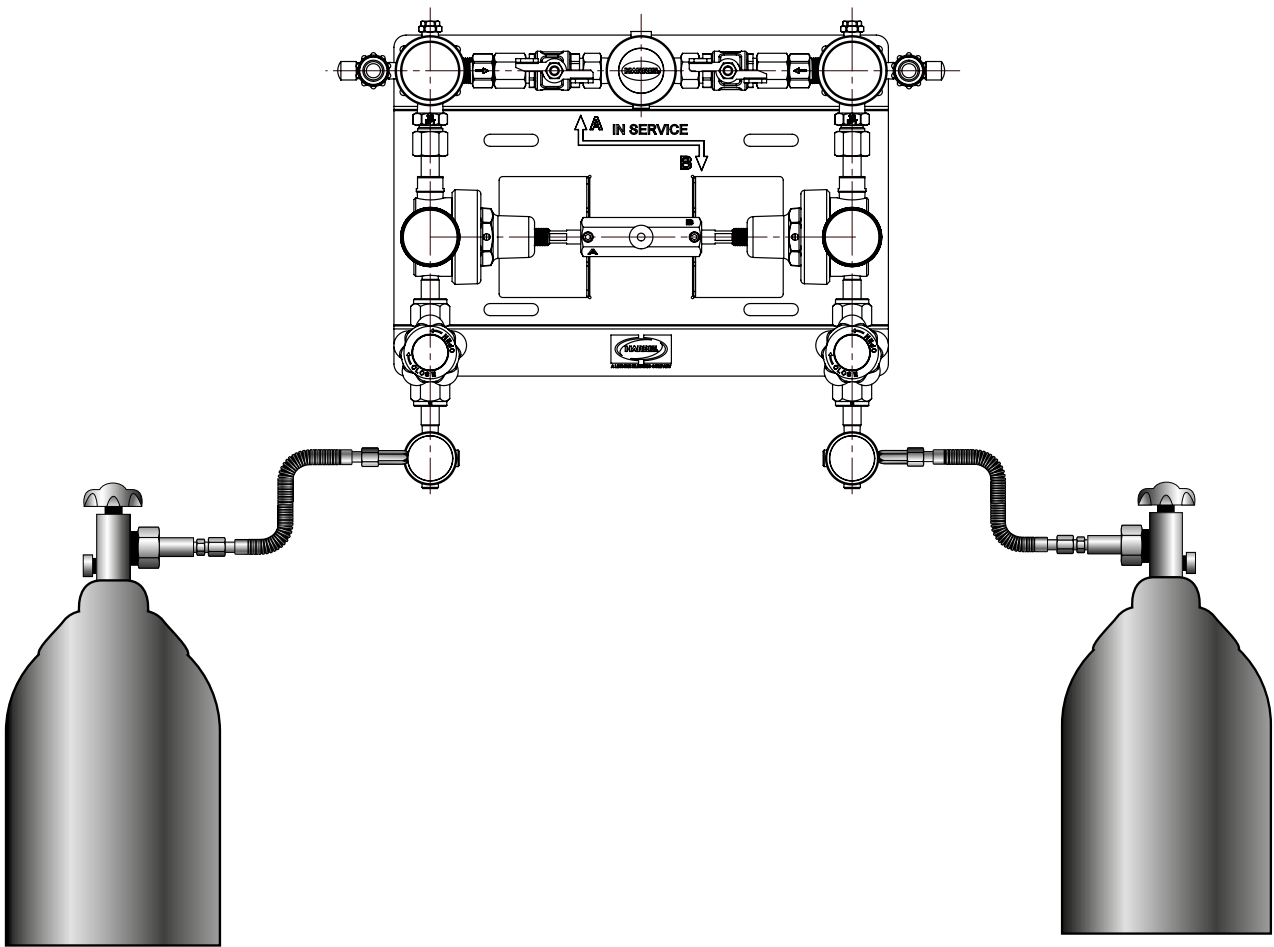
Catalog 2025

**WHEN GASES ARE USED IN SIGNIFICANT VOLUMES,
A CENTRALIZED GAS DELIVERY SYSTEM IS A PRACTICAL NECESSITY.
A WELL-CONCEIVED DELIVERY SYSTEM WILL REDUCE OPERATING
COSTS, INCREASE PRODUCTIVITY AND ENHANCE SAFETY.**

A centralized system will allow the consolidation of all cylinders into one storage location. With all the cylinders in one place, inventory control will be streamlined and cylinder handling will be simplified and improved. Gases can be separated by type to enhance safety.

With gas delivery systems the frequency of cylinder changeouts are reduced. This reduction is achieved by connecting multiple cylinders to supply panels in banks in such a way that one bank can be safely vented, replenished and purged while a second bank provides continuous gas service. This type of system can supply gas to multiple applications and even entire facilities, eliminating the need for separate cylinders and regulators for each point of use.

Since cylinder switchover can be accomplished automatically by the supply panel, cylinders in a bank will be uniformly exhausted, resulting in improved gas utilization and lower costs. The integrity of the delivery system will be better protected since cylinder change-outs will be done in an isolated, controlled environment.



Let the experts at Harris show you how you can **raise productivity, lower operational cost, and improve the quality of your products** by choosing the right gases and equipment for your specific application. Whether you are working with Oxygen, Hydrogen, Nitrogen, or any of the fuel gases, Harris offers a complete line of Gas Control Systems coupled with experienced engineers and technical specialists who are **ready to assist** you from the gas supply to the flame.

CONTENTS

The Harris Products Group	4
One-side gas supply manifolds	6
Two-side gas supply manifolds	10
Semi-automatic switchover gas supply manifold	14
Master Manifold System	18
Extensions	22
Medium pressure & high flow regulators	24
Points of use (kits and regulators)	26
Flashback arrestors	31
Accessories	32



THE HARRIS PRODUCTS GROUP



The Harris Products Group was formed by combining two strong names in the welding business - Harris Calorific and J.W. Harris. The Harris Products Group is a world leader in metalworking products used in the brazing, soldering, welding, cutting and gas distribution industries. The combined company offers excellence in the manufacture of:

- Gas welding and cutting equipment
- Industrial and specialty gas regulation equipment
- Gas distribution systems
- Brazing and soldering alloys
- Welding alloys
- Pre-formed bends, rings and return bends



The Harris Products Group is a wholly-owned subsidiary of The Lincoln Electric Company. Lincoln Electric has 71 manufacturing locations in 21 countries and a worldwide network of distributors and sales offices serving customers in over 160 countries.

MANUFACTURING FACILITIES

Based in Mason, Ohio, The Harris Products Group has twelve manufacturing locations in six countries and a worldwide network of distributors and sales offices covering more than 90 countries.



THE MERGER RESULTED FROM A SERIES OF

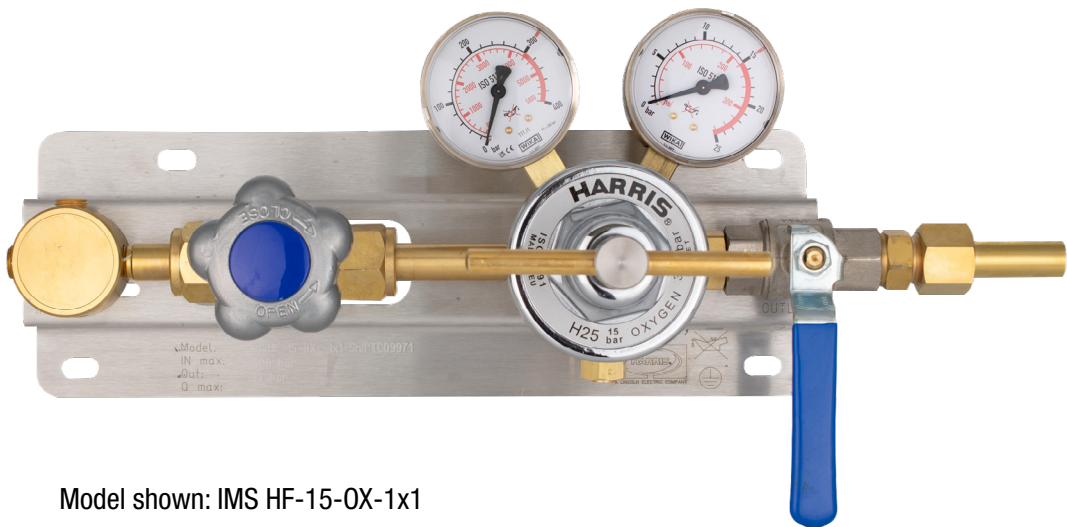
ACQUISITIONS BY THE LINCOLN ELECTRIC COMPANY



GAS SUPPLY MANIFOLDS
for Oxygen and Propane, Hydrogen, Methane and inert gases

One-side manifolds provide continuous gas flow from a single cylinder or bank of cylinders. Designed for applications where a slight rise in delivery pressure from full to empty cylinder can be tolerated or as a first stage of pressure reduction. Available for Oxygen, Propane, Hydrogen, Methane, Acetylene and inert gases. Manual adjustment of the regulator allows the user to set downstream pressure.

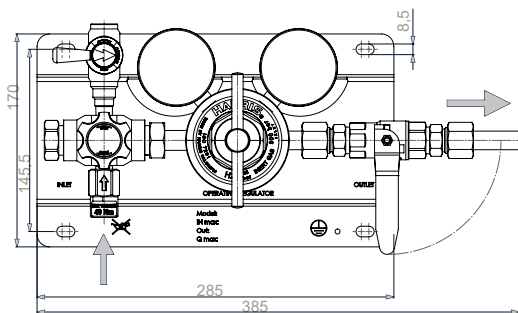
Available in two versions: Standard (IMS) and High Flow (IMS HF)



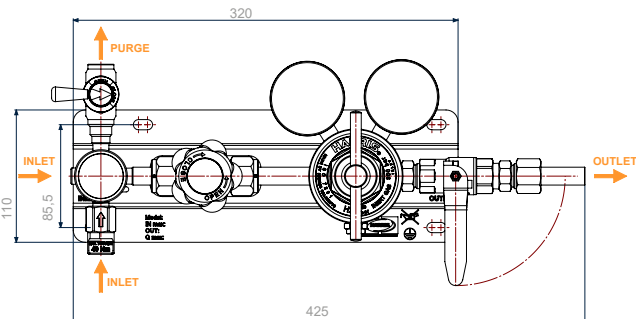
Model shown: IMS HF-15-OX-1x1

STANDARD (IMS) version with modular shut-off diaphragm valve with one inlet for a cylinder/bank of cylinders (1x1), expandable with the IMS Header Extensions for the required number of inlets.

HIGH FLOW (IMS HF) version with high flow master shut-off valve with one inlet for a cylinder/bank of cylinders (1x1), expandable by the IMS-HF extensions for the required number of inlets.



IMS-25-IG-1x1-PV-NRV



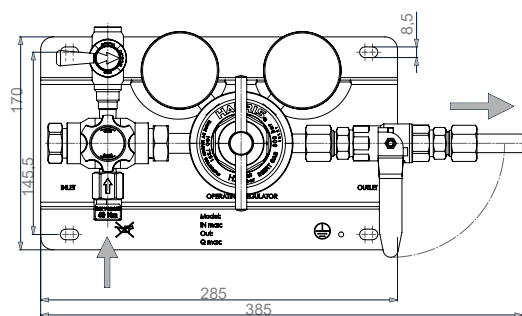
IMS HF-50-IG-1x1-PV-NRV

FEATURE	IMS STANDARD	IMS HF (HIGH FLOW)
Regulator Model	H25	H25 HF
Designed according to ISO 7291 Standard	OK	
Stainless Steel diaphragm	OK	
High Pressure capsule seat with Kel-F (CTFE)	OK - Standard	OK - High Flow
Sintered bronze - 25 micron	OK	
T-screw handle	OK	
Internal relief valve	OK	
5 year Warranty	OK	
Inlet Pressure	0-300 bar (0-25 bar for Acetylene)	
Max Gas Flow Nm3/h	Please check the flow chart on the next page	
Tested at nominal pressure and direct passage	100%	
Compact Design	OK	
Plug and go	Ready to use	
Easy to extend	Standard IMS extensions	High flow IMS-HF extensions
Quick and easily replaceable components	OK	
Non Return Valves	OK - Included	OK - Optional
Purge Valve	OK - Optional	
Outlet Shutoff Valve	OK - Included	
External Relief Valve	OK - Included on HF	
Mounted on laser engraved stainless steel plate	OK	
Flashback Arrestors - FBA	Included on Acetylene panels versions	
Automatic Quick Action shut off	Included on Acetylene panels versions	
Working temperature	-20°C to +60°C	
Inlet	1/4" FNPT	
Outlet	G 1/2"	
Weight	3.6 kg	
Related Options	Purge valves	
	Extensions (Modular/Compact)	
	High pressure contact gauges / High pressure transducers	
	Low pressure contact gauges / Low pressure transducers	
	Pre-heater	
	Alarm panels / Telemetry systems	
	Flashback arrestor	
	High pressure hoses	
	Line relief valves	

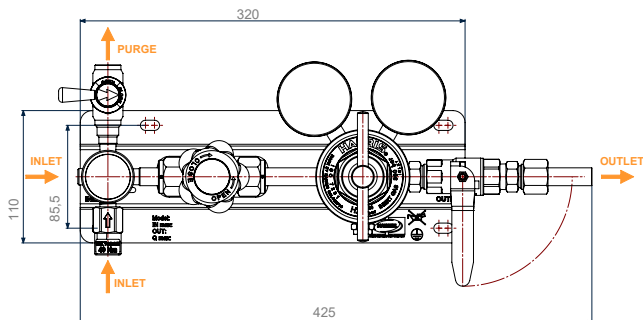
REGULATOR MATERIALS	
Body	Brass
Diaphragm	Stainless steel type AISI 302 / For Acetylene: Neoprene rubber reinforced with Nylon
Filter	Sintered bronze – 25 micron
Seat	Nylon-66
O-ring	Buna-N

Other materials available under request.

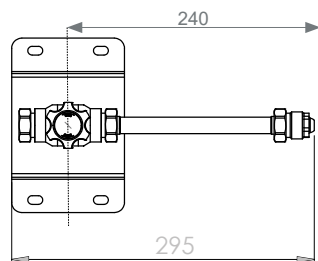
IMS-25-IG-1x1-PV-NRV:



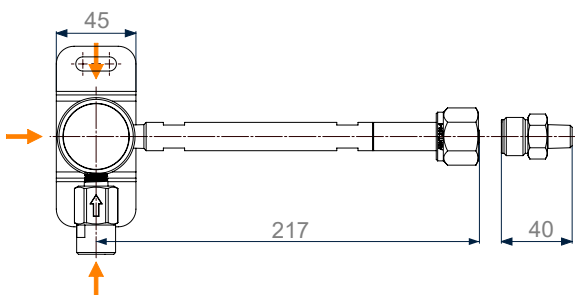
IMS HF-50-IG-1x1-PV-NRV:



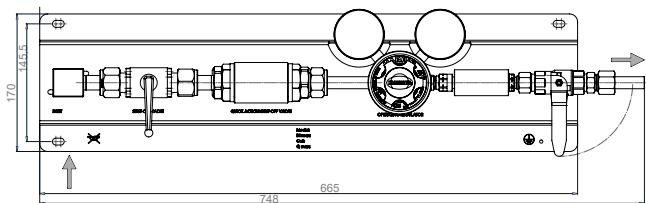
Modular extensions (standard):



Modular extensions (High Flow):

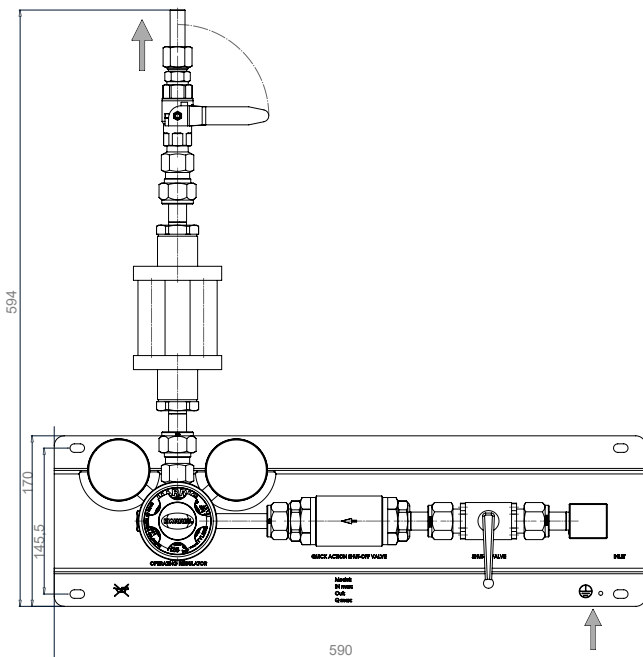


Acetylene:



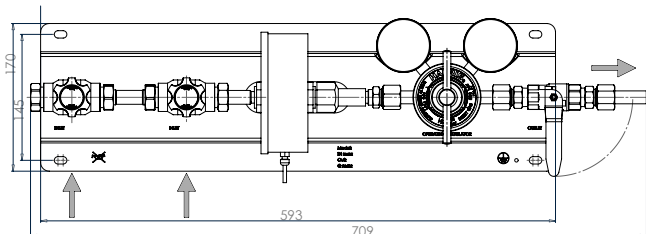
IMS-1.5-AC-1x1

Acetylene:



IMS HF-1.5-AC-1x1

CO2+Heater:



IMS-15-IG-1x2-PH500

ORDERING CONFIGURATION

Model	Outlet pressure (bar)	Gas		Number of Sides	Number of Cylinders/Inlets	Option	
IMS	1.5	Acetylene	AC	1	1	Purge Valve	PV
IMS HF	4	Propane	LP		> 1 (add extensions)	IMS Modular Extension	IMS Header
	6	Inert gas	IG			IMS-HF Modular Extension	IMS-HF-ME
	10	Hydrogen	H			High Pressure Contact Gauge	HPCG
	15	Oxygen	OX			Low Pressure Contact Gauge	LPCG
	25	Carbon dioxide	CO ₂			Alarm Panel	HAS
	40					Pre-heater - 500W	PH500
	50					Flashback Arrestor	FBA
						Inlet Safety Non Return Valves	NRV
						High Flow Line Safety Relief Valve	LSRV
						High Pressure Transducer	HPT
						Low Pressure Transducer	LPT
						Telemetry	IGMS

Ordering Configuration Example:
IMS- 15- OX- 1X 1-PV
IMS HF -25- H-1X2-PV-ME
Other gases, pressures and configurations available under request. Please contact us.

CAN'T FIND
WHAT YOU ARE
LOOKING FOR?

CONTACT YOUR HARRIS
REPRESENTATIVE

FOR THE DEVICES THAT HAVE THE FEATURES
AND BENEFITS THAT BEST FIT
YOUR APPLICATION(S)

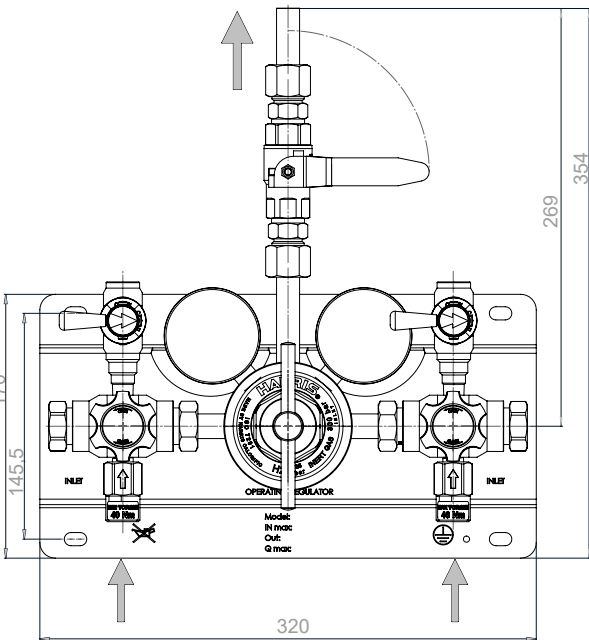
TWO-SIDE GAS SUPPLY MANIFOLDS
for Oxygen and Propane, Hydrogen, Methane and inert gases

Two-side manifolds provide continuous gas flow from a single cylinder or bank of cylinders.
Designed for applications where a slight rise in delivery pressure from full to empty cylinder can be tolerated or as a first stage of pressure reduction. Available for Oxygen, Propane, Hydrogen, Methane, Acetylene and inert gases. Manual adjustment of the regulator allows the user to set downstream pressure. Both sides can be used at the same time or a manual switchover is possible.
Available in two versions: Standard (IMS) and High Flow (IMS HF)



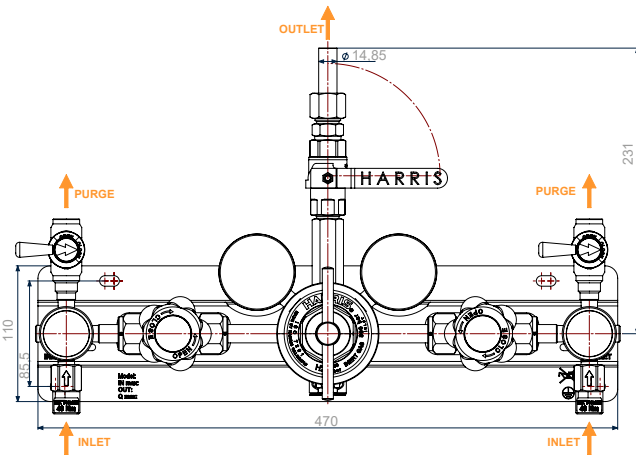
Model shown: IMS HF-50-OX-1x1-PV

STANDARD (IMS) version with modular shut-off diaphragm valve with two inlets for a cylinder/bank of cylinders (2x1), expandable with the IMS Header Extensions for the required number of inlets.



IMS-25-IG-2x1-PV-NRV

HIGH FLOW (IMS HF) version with high flow master shut-off valve with two inlets for a cylinder/bank of cylinders (2x1), expandable by the IMS-HF extensions for the required number of inlets.



IMS HF-25-IG-2x1-PV-NRV

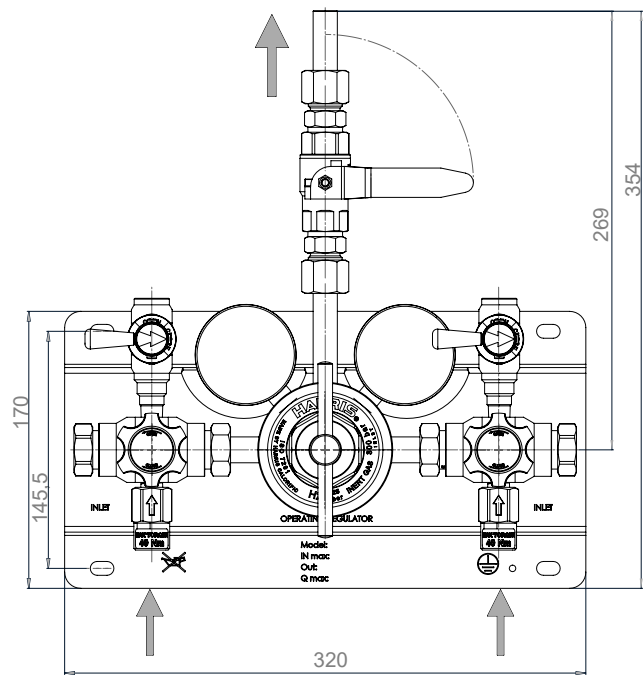
FEATURE	IMS STANDARD	IMS HF (HIGH FLOW)
Regulator Model	H25	H25 HF
Designed according to ISO 7291 Standard	OK	
Stainless Steel diaphragm	OK	
High Pressure capsule seat with Kel-F (CTFE)	OK - Standard	OK - High flow
Sintered bronze - 25 micron	OK	
T-screw handle	OK	
Internal relief valve	OK	
5 year Warranty	OK	
Inlet Pressure	0-300 bar (0-25 bar for acetylene)	
Max Gas Flow Nm3/h	Please check the flow chart on the next page	
Tested at nominal pressure and direct passage	100%	
Compact Design	OK	
Plug and go	Ready to use	
Easy to extend	Standard IMS extensions	High flow IMS-HF extensions
Quick and easily replaceable components	OK	
Non-return Valves	Ok - Included	Ok - Optional
External Relief Valve	Ok - Optional	Ok - Included
Mounted on laser engraved stainless steel plate	OK	
Working temperature	-20°C to +60°C	
Inlet	1/4" FNPT	
Outlet	G 1/2"	
Weight	4.1 kg	
Related Options	Purge valves	
	Extensions (Modular/Compact) / High Pressure Transducer	
	High pressure contact gauges / Low Pressure Transducer	
	Low pressure contact gauges	
	Pre-heater	
	Alarm panels / Telemetry Systems	
	Flashback arrestor	
	High pressure hoses	

REGULATOR MATERIALS	
Body	Brass
Diaphragm	Stainless steel type AISI 302 / / For Acetylene: Neoprene rubber reinforced with Nylon
Filter	Sintered bronze – 25 micron
Seat	Nylon-66
O-ring	Buna-N

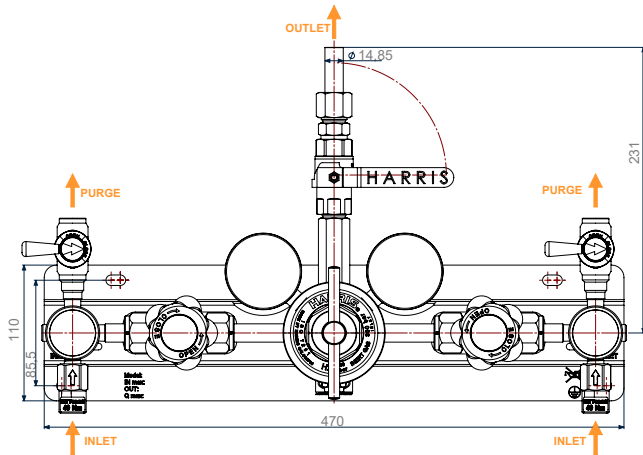
Other materials available under request.



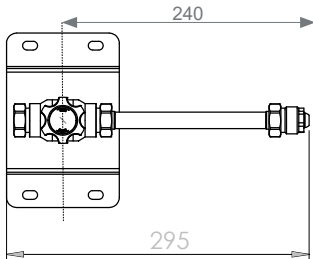
IMS-25-IG-2x1-PV-NRV:



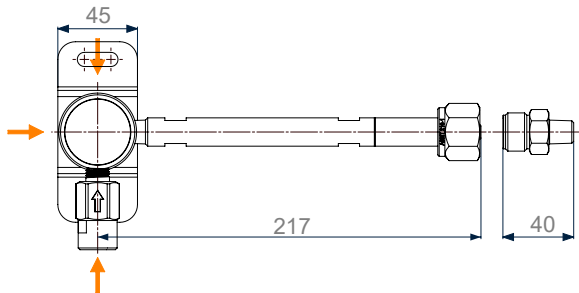
IMS HF-25-IG-2x1-PV-NRV:



Modular extensions (standard):



Modular extensions (High Flow):



ORDERING CONFIGURATION

Model	Outlet pressure (bar)	Gas	Number of Sides	Number of Cylinders/Inlets	Option	
IMS	1.5	Acetylene	AC		Purge Valve	PV
IMS HF	4	Propane	LP	2	IMS Modular Extension	IMS Header
	6	Inert gas	IG	> 1 (add extensions)	IMS-HF Modular Extension	IMS-HF-ME
	10	Hydrogen	H		IMS-HF Compact Extension	IMS-HF-KE
	15	Oxygen	OX		High Pressure Contact Gauge	HPCG
	25	Carbon dioxide	CO ₂		Low Pressure Contact Gauge	LPCG
	40				Alarm Panel	HAS
	50				Pre-heater - 500W	PH500
					Flashback Arrestor	FBA
					High Pressure Transducer	HPT
					Low Pressure Transducer	LPT
					Telemetry	IGMS

Ordering configuration examples:
IMS- 15- OX- 1X 1- PV
IMS-HF-25-IG 2X 2 -PV- ME
Other gases, pressures and configurations available under request. Please contact us.

AS MANUFACTURERS
STRIVE TO REDUCE
OVERALL COSTS,
**HARRIS CAN ASSIST IN
THOSE EFFORTS.**

OUR TECHNICAL TEAM IS
FOCUSED ON COST REDUCTION
SOLUTIONS FOR SPECIFIC
APPLICATIONS IN YOUR PLANT.



GAS SUPPLY MANIFOLD

designed to prevent the freezing up of the gas installation

Semi-automatic switchover manifolds IMS series prevent downtime by automatically switching gas supply from the primary cylinder bank to the reserve cylinder side. The user resets the primary bank by turning the lever.

Designed for applications where a continuous flow of gas is critical for the process and pressure differential of outlet pressure is tolerated or as a first stage of pressure reduction. Available for: Oxygen, Propane, Hydrogen, Methane, Acetylene and inert gases.

The use of contact gauges (optional) together with the alarm box (optional) helps the monitoring of gas content.

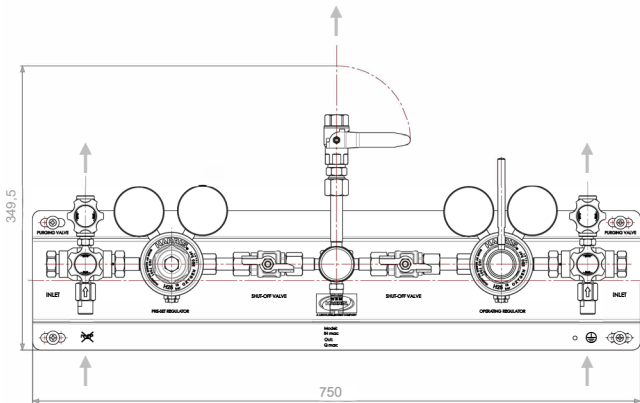
Available in two versions: **Standard (IMSSA)** and **High Flow (IMSSA-HF)**



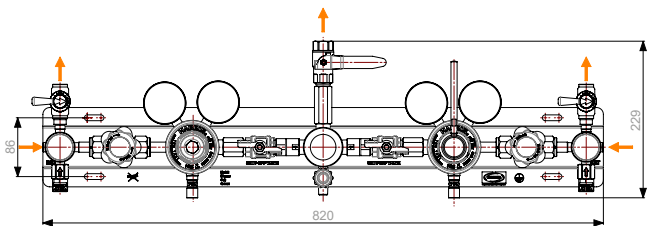
Model shown: IMSSA-25-OX-2x1

IMSSA (Standard version) with modular shut-off diaphragm valve with two inlets for a cylinder/bank of cylinders (2x1), expandable with the IMS Header Extensions for the required number of inlets

IMSSA-HF (High Flow Version) with high flow master shut-off valve with two inlets for a cylinder/bank of cylinders (2x1), expandable by the IMS-HF extensions for the required number of inlets



IMSSA-15-IG-2x1-PV-NRV



IMSSA-HF-10-IG-2x1-PV-NRV

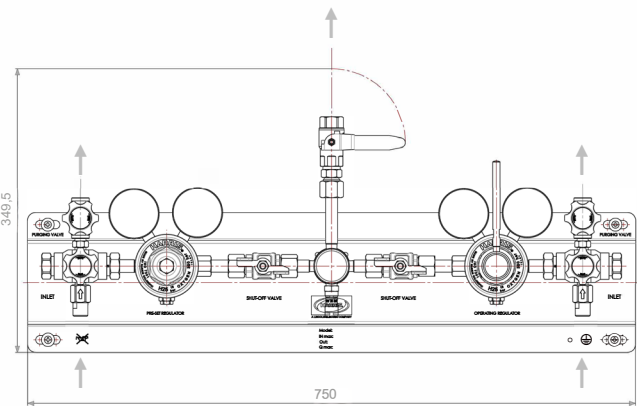
FEATURE	IMS STANDARD	IMS HF (HIGH FLOW)
Regulator model	H25	H25 HF
Designed according to ISO 7291 Standard	OK	
Stainless steel diaphragm	OK	
High pressure capsule seat with Kel-F (CTFE)	OK - Standard	OK - High Flow
Sintered bronze - 25 micron	OK	
T-screw handle	OK	
Internal relief valve	OK	
5 year warranty	OK	
Max. inlet pressure	0-300 bar (0-25 bar for acetylene)	
Tested at nominal pressure and direct passage	100%	
Compact design	OK	
Plug and go	Ready to use	
Easy to extend	Standard IMS extensions	High flow IMS-HF extensions
Quick and easily replaceable components	OK	
Non-return valves	Included	
External Relief Valve		Ok - Included
Purge valve	Ok - Optional	Ok - Included
Outlet shutoff valve	OK - included	
Mounted on laser engraved stainless steel plate	OK	
Working temperature	-20°C to +60°C	
Inlet	1/4" FNPT	
Outlet	G 1/2"	
Weight	7.6 kg	
Related Options	Purge valves	
	Modular Extensions	
	High pressure contact gauges / High Pressure Transducer	
	Low pressure contact gauges / Low Pressure Transducer	
	Pre-heater	
	Alarm panels / Telemetry Systems	
	Flashback arrestor	
	High pressure hoses	

REGULATOR MATERIALS	
Body	Brass
Diaphragm	Stainless steel type AISI 302 / For Acetylene: Neoprene rubber reinforced with Nylon
Filter	Sintered bronze – 25 micron
Seat	Nylon-66
O-ring	Buna-N

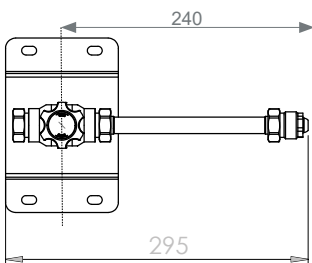
Other materials available under request.



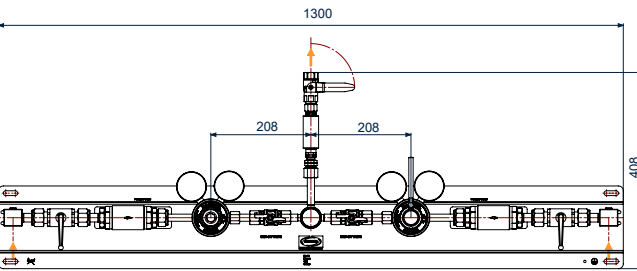
IMSSA-15-IG- 2x1-PV-NRV



Modular extensions (standard):

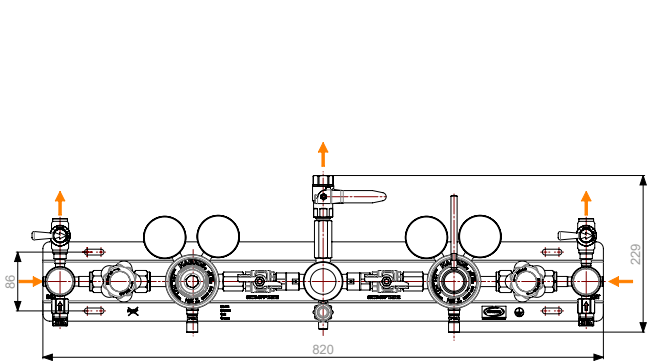


Acetylene:

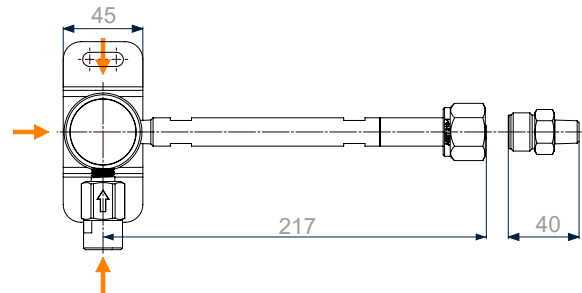


IMSSA-15-AC-2x1-PV-NRV

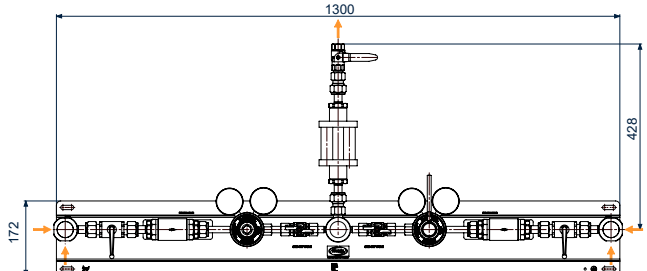
IMSSA-HF-SA-10-IG-2x1-PV-NRV



Modular extensions (High Flow):



Acetylene:



IMSSA-HF-15-AC-2x1-PV-NRV

ORDERING CONFIGURATION

Model	Outlet pressure (bar)	Gas	Number of Sides	Number of Cylinders/Inlets	Option
IMSSA	1.5	Acetylene	AC		Purge Valve PV
IMSSA HF	4	Propane	LP	2	IMS Modular Extension EXT
	6	Inert gas	IG	> 1 (add extensions)	IMS-HF Modular Extension ME
	10	Hydrogen	H		High Pressure Contact Gauge HPCG
	15	Oxygen	OX		Low Pressure Contact Gauge LPCG
	25	Carbon dioxide	CO ₂		Alarm Panel HAS
	40	Nitrous oxide	N ₂ O		Pre-heater - 230V, 500W PH500
					Flashback Arrestor FBA
					Second Stage - Line Regulator
					High Pressure Transducer HPT
					Low Pressure Transducer LPT
					Telemetry Systems IGMS

Ordering Configuration Examples:
IMSSA-15- OX-1X1-PV
IMSSA HF-25-IG-2X2-PV-ME
IMSSA-1.5 AC-1X1
Other gases, pressures and configurations available under request. Please contact us.

WITH HARRIS
FLASHBACK ARRESTORS
YOU CAN SAFELY
DO THE WORK



GAS SUPPLY MANIFOLD

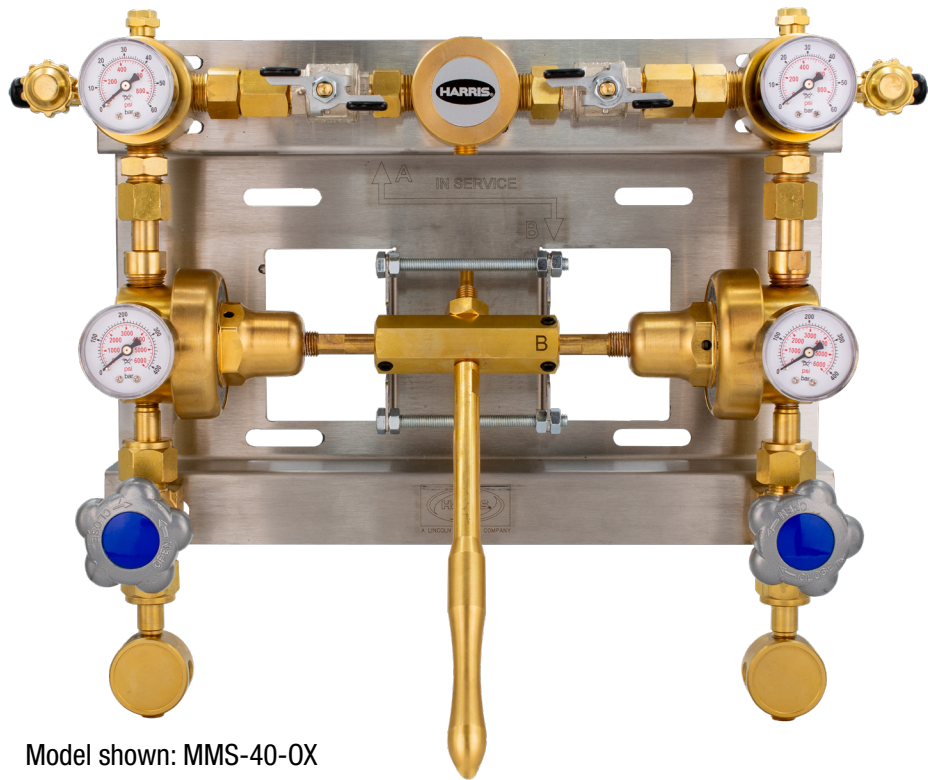
designed to prevent the freezing up of the gas installation

Master semi-automatic switchover manifolds **MMS-150 Series** prevent downtime by automatically switching gas supply from the primary cylinder bank to the secondary cylinder side. The user resets the primary bank by turning the lever up/down, allowing a full reversible side use. Designed for applications where a continuous flow of gas is critical for the process and pressure differential of outlet pressure is tolerated or as a first stage of pressure reduction.

Available for: Oxygen, Propane, Hydrogen, Methane, Acetylene and inert gases.

The use of contact gauges (optional) together with the alarm box (optional) helps monitoring the gas content.

MMS-150 Series with high flow master shutoff valves with expandable extensions are available in 3 versions:
MMS: For High Pressure Cylinder Gas
MMS-L: For liquid system/dewars in the gas phase
MMS-H: For hybrid version. Lower pressure for liquid system (gas phase) on one side and high pressure cylinder on the other side.



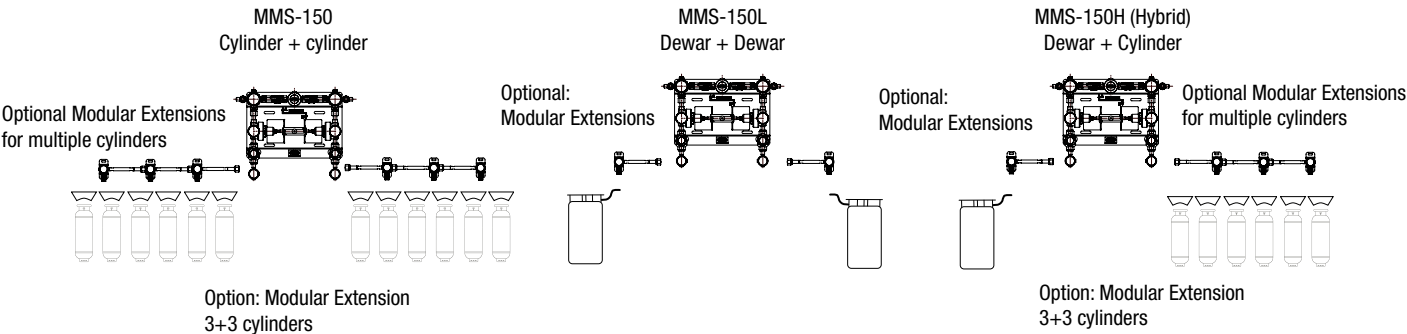
Model shown: MMS-40-0X

REGULATOR MATERIALS	
Body	Brass
Diaphragm	Stainless steel type AISI 302 / For Acetylene: Neoprene rubber reinforced with Nylon
Filter	Sintered bronze – 25 micron
Seat	Nylon-66
O-ring	Buna-N

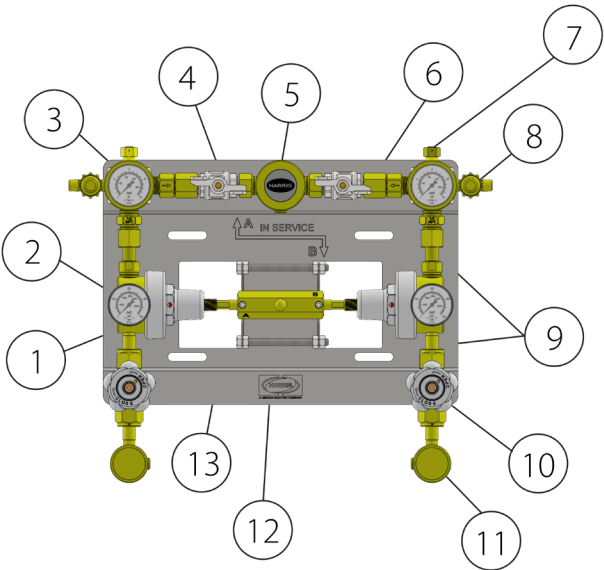
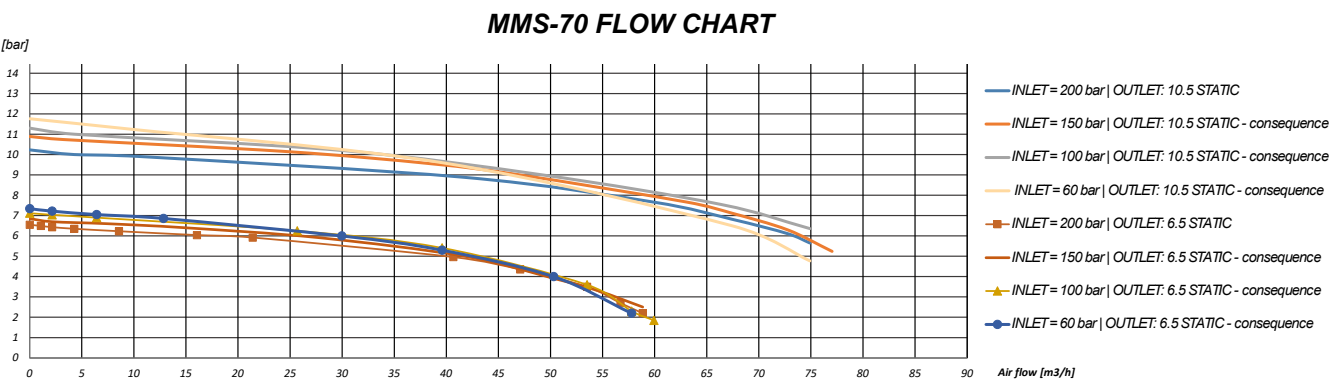
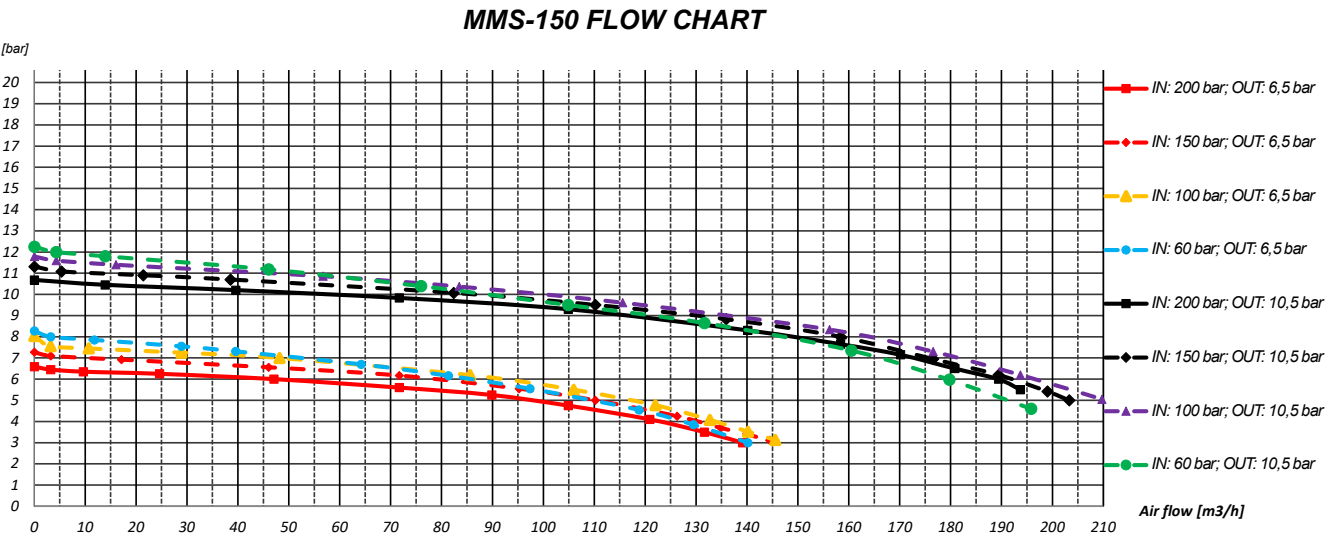
Other materials available under request.

FEATURE	MMS (HIGH FLOW)
Regulator model	H25 HF
Designed according to ISO 7291 Standard	OK
Stainless steel diaphragm	OK
High Pressure capsule seat with Kel-F (CTFE)	OK - High Flow
Sintered bronze - 25 micron	OK
UP/DOWN lever system	OK
Automatic internal and external relief valve	OK
3-year warranty	OK
Max. inlet pressure	0-300 bar
Outlet pressures	04/06/10/15/25/40/50 bar
Tested at nominal pressure and direct passage	100%
Compact design	OK
Plug and go	Ready to use
Easy upgradable extensions	High flow IMS-HF extensions
Quick and easily replaceable components	OK
Non-return valves	Included
Purge valve	OK - included
Master high flow inlet shutoff valve	OK - included
Mounted on laser engraved stainless steel plate	OK
Working temperature	-20°C to +60°C
Inlet	1/4" FNPT
Outlet	G 1/2"
Weight	7.6 kg
Related Options	Extensions (Modular/Compact)
	High pressure contact gauges / High Pressure Transducers
	Low pressure contact gauges / Low Pressure Transducers
	Pre-heater
	Alarm panels / Telemetry Systems
	Flashback arrestor
	High pressure hoses

Other materials available under request.



FLOW CHARTS



ITEM	DESCRIPTION
1	H25 HF – High Flow Regulator with internal safety valve (IRV)
2	Inlet Gauges 50 mm (MMS: 0-400 Bar, MMS-L/H: 0-60 Bar)
3	Outlet Gauges 50 mm (0-16/0-25/0-60 Bar)
4	Shutoff Valves – Low pressure – high flow
5	½" FNPT Outlet Connection
6	Check Valves – low pressure – high flow
7	Relief Valves
8	Purge Valves
9	Easy & fast replacement Regulators system
10	High Flow High Pressure Masters Valves
11	1/4" FNPT Inlet Connection
12	Lever System – Sliding balls for smooth handle
13	Bracket - Stainless Steel AISI 304 with Laser inscriptions

ORDERING CONFIGURATION

Model	Outlet pressure (bar)	Gas	Number of Sides	Number of Cylinders/Inlets	Option	
MMS-150	4	Propane	LP		MMS-HF Modular Extension	ME
MMS-150L	6	Inert gas	IG	2	MMS-HF Compact Extension	KE
MMS-150H	10	Hydrogen	H	> 1 (add extensions)	High Pressure Contact Gauge	HPCG
MMS-70*	15	Oxygen	OX		Low Pressure Contact Gauge	LPCG
	25	Carbon dioxide	CO ₂		Alarm Panel	HAS
	50	Nitrous oxide	N ₂ O		Pre-heater - 230V, 500W	PH500
					Second Stage - Line Regulator	
					High Pressure Transducer	HPT
					Low Pressure Transducer	LPT
					Telemetry System	IGMS

* Maximum outlet pressure is 20 bar
Ordering configuration examples:
MMS-150-06-OX-2x1
MMS-10-H-2x2-ME
Other gases, pressures and configurations available under request. Please contact us.



THE MOST COMPLETE LINE
OF INDUSTRIAL GAS
PRODUCTS **designed to**
perform in critical applications



EXTENSIONS

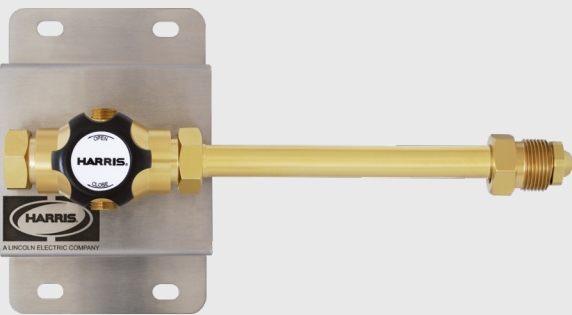
MODULAR EXTENSIONS

APPLICATIONS:

- Designed to increase the number of connected cylinders to supply panel

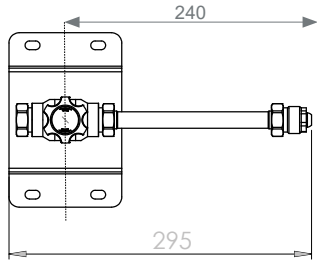
FEATURES:

- Max. inlet pressure 300 bar
- Modular design
- Diaphragm inlet shut off valve option
- Easy to install
- Two options: left or right

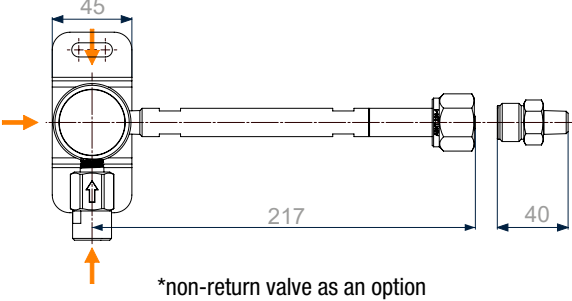


PART NO.		DESCRIPTION	GAS	MAX INLET PRESSURE (bar)
9110300	Standard	Header IMSEMR right	Non-corrosive	300
9110301	Standard	Header IMSEML left	Non-corrosive	300
9110302	Standard	Header IMSEMR NRV right	Non-corrosive	300
9110303	Standard	Header IMSEML NRV left	Non-corrosive	300
9104570	High Flow	Header IMSHF	Non-corrosive	300

Standard extension



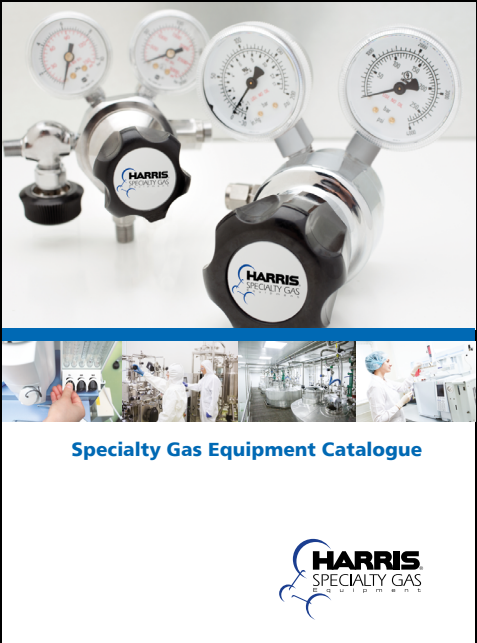
High Flow extension



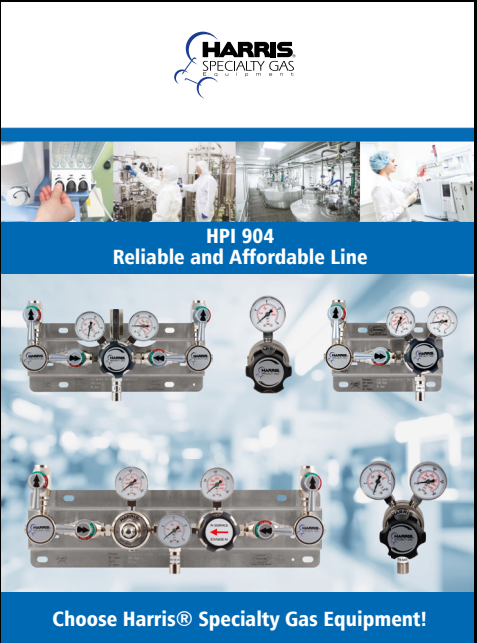
TURN TO HARRIS FOR THE
MOST COMPLETE LINE
OF INDUSTRIAL
GRADE EQUIPMENT



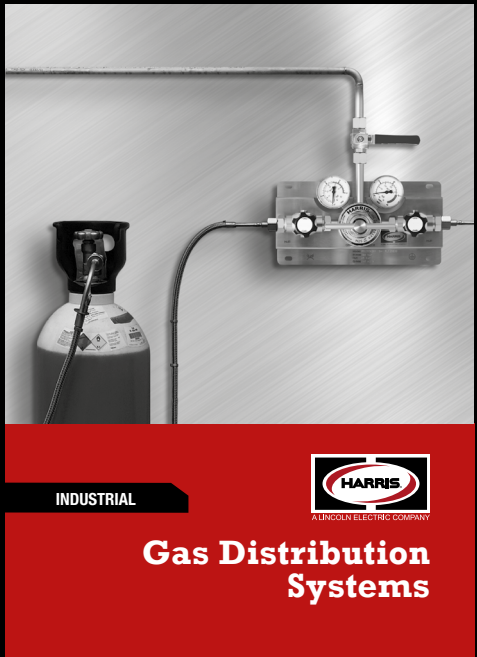
CHECK OUR OTHER CATALOGS:



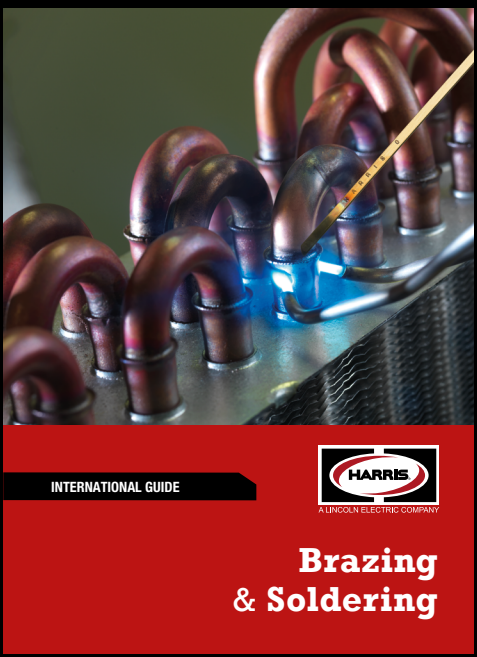
Download our
Specialty Gas
Equipment Catalog
up to 6.0 gas purity



Download our
Specialty Gas
HPI904 Catalog
up to 5.0 gas purity



Download our
Gas Distribution
Systems Catalog



Download our
Brazing &
Soldering Guide



MPHF


MODEL

7

YEAR WARRANTY

MPHF 1/2" NPT

Model shown: MPHF 1/2" NPT



HIGH FLOW PIPELINE REGULATOR

APPLICATIONS:

▶ Medium Pressure High Flow regulator is engineered for superior performance in the most demanding applications. With a robust 40 bar (550 psi) high-pressure delivery and a precision threaded bonnet (for 1/2" only), it offers unparalleled stability and control. The integrated internal debris filter ensures clean operation, minimizing maintenance needs and prolonging the life of your equipment. Designed with high-flow capabilities and durability, the MPHF is the ideal choice for a wide range of industrial gas systems.

FEATURES:

▶ 1/2" 40 bar (550 psi): HIGH PRESSURE DELIVERY

▶ Internal debris filter

▶ 1/2" NPT threaded bonnet

▶ Balanced seat: maintains constant PSI delivery

▶ High flow 5+ Cv on 1" NPT model

▶ 4 gas port brass body: 1 inlet with 180° outlet matched

▶ NPT and two 1/4" FNPT ports on the downstream side

▶ Works with gas temperature -40°C to +74°C (-40°F to +74°F)

▶ Brass bonnet as standard

▶ Compliance with new ISO 22073-1

▶ Maximum inlet pressure 60 bar (870 psi)

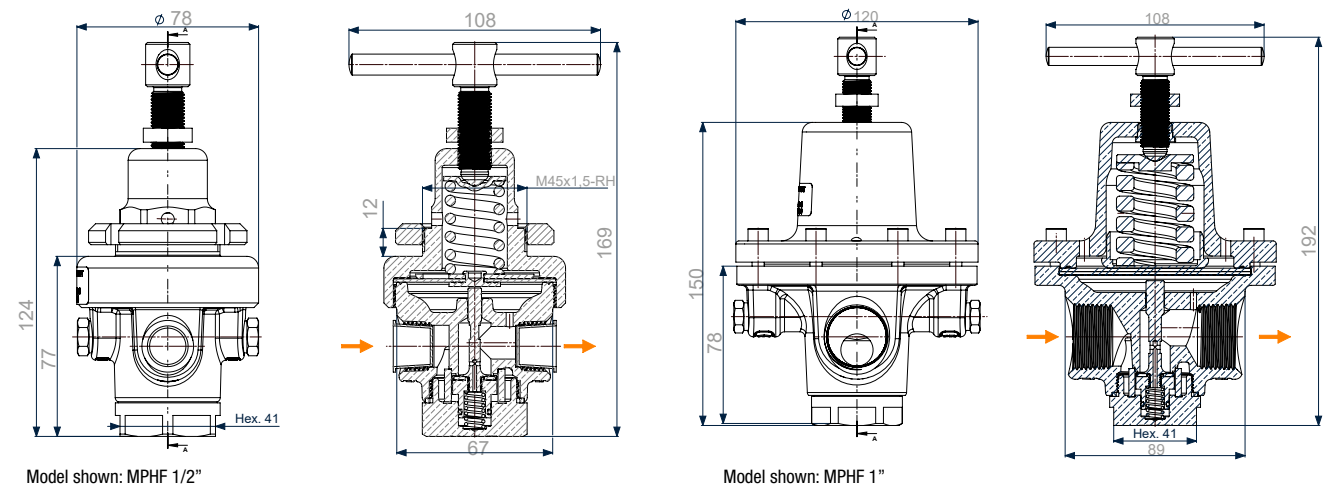
TECHNICAL DATA

Model no.	Connection size	Max inlet pressure	Delivery pressure	Max (air) flow	Delivery pressure gauge
3005531	1/2"	60 bar (870 psi)	4 bar (58 psi)	300 m3/h (~10500 SCFH)	0 – 6 bar (87 psi)
3005532	1/2"	60 bar (870 psi)	10 bar (145 psi)	550 m3/h (~19000 SCFH)	0 – 16 bar (232 psi)
3005533	1/2"	60 bar (870 psi)	15 bar (217 psi)	>600 m3/h (>21000 SCFH)	0 – 25 bar (363 psi)
3005538	1/2"	60 bar (870 psi)	25 bar (363 psi)	>600 m3/h (>21000 SCFH)	0 – 40 bar (580 psi)
3005534	1"	60 bar (870 psi)	40 bar (580 psi)	>600 m3/h (>21000 SCFH)	0 – 60 bar (870 psi)
3005535	1"	60 bar (870 psi)	4 bar (58 psi)	300 m3/h (~10500 SCFH)	0 – 6 bar (87 psi)
3005536	1"	60 bar (870 psi)	10 bar (145 psi)	550 m3/h (~19000)	0 – 16 bar (232 psi)
3005537	1"	60 bar (870 psi)	20 bar (290 psi)	>600 m3/h (>21000 SCFH)	0 – 40 bar (580 psi)

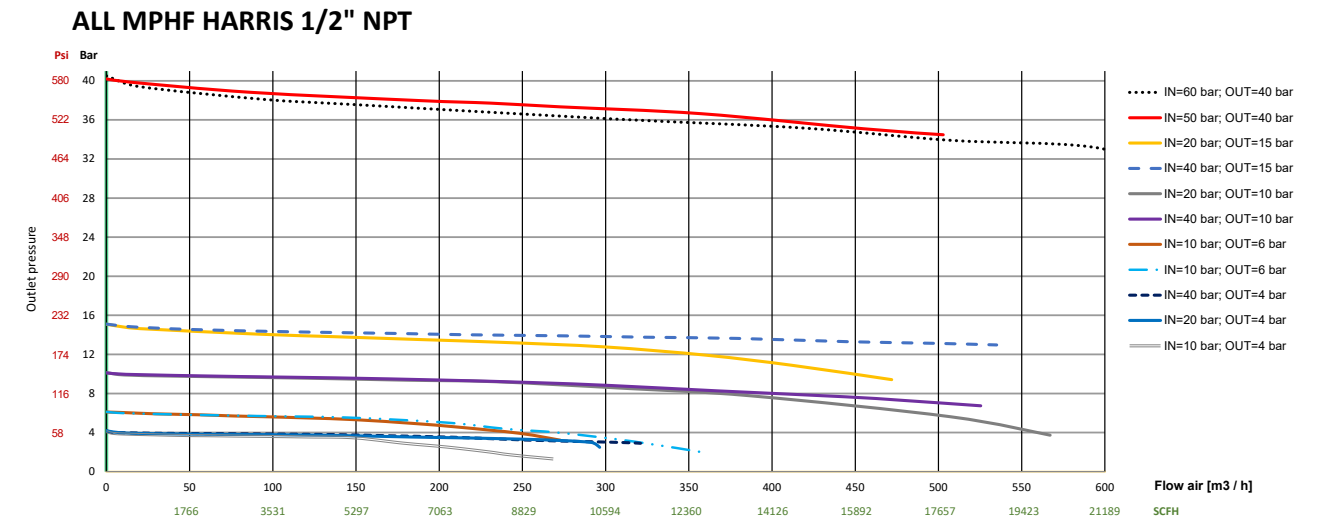
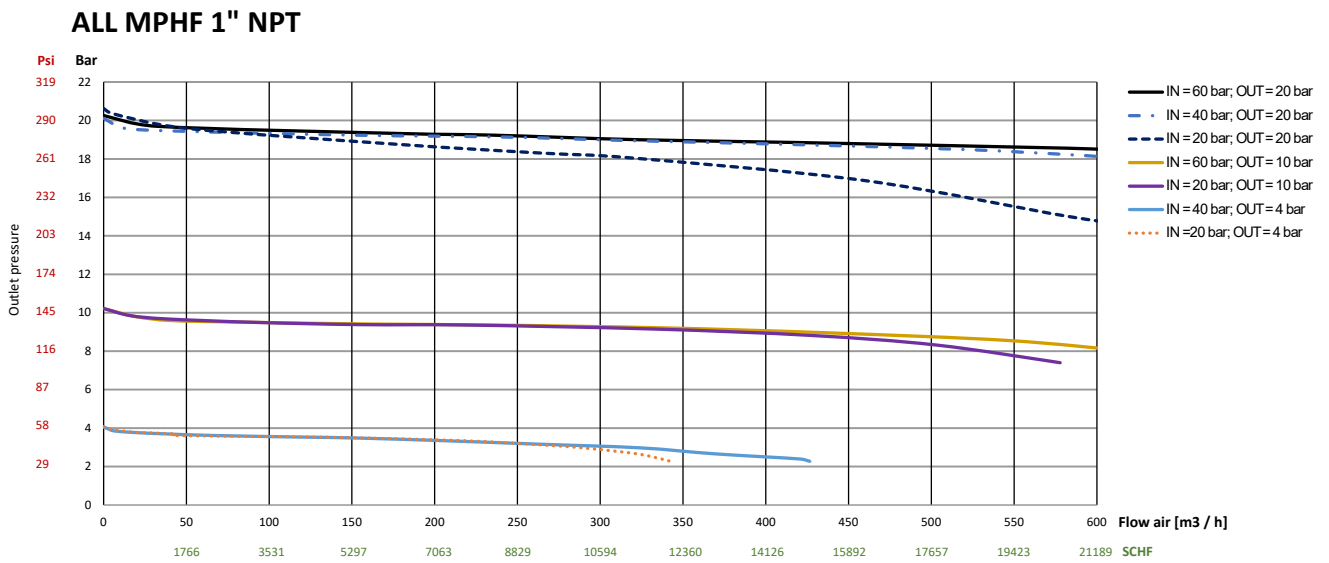
ORDERING CONFIGURATION

Model	Connection Size	Outlet pressure (bar)	Seals/Diaphragm	Options	Filter Material
MPHF	1/2 inch	005	4	Pur/Nitrile	PN
	1 inch	010	10	Pur/PTFE	PP
			15	Pur/Stainless Steel	PS
			20		
			25		
			40		

TECHNICAL DRAWINGS



FLOW CHARTS



POINT-OF-USE KITS & REGULATORS

HARRIS POINT-OF-USE FEATURES:

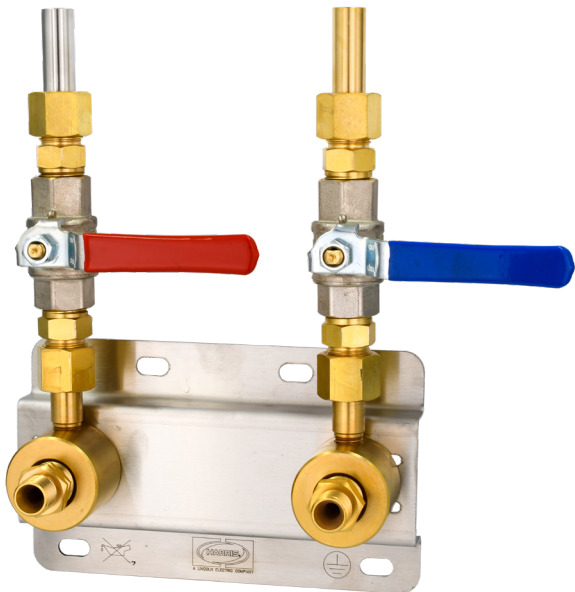
- Compact and reliable design to end your pipeline installation for Acetylene, Oxygen and highly compressed non-corrosive gases
- Operating pressure 2.5 bar for Acetylene and up to 60 bar for all other gases
- G1/2" ball shutoff valve with pipeline adapter included for 12 mm pipeline connection
- Brass Outlet 1/2" FNPT
- Stainless steel bracket to wall
- Multiple points in one station under request

NOMINAL GAS FLOW:

- Acetylene up to 15 Nm³/h
- Propane up to 10 Nm³/h
- Oxygen up to 200 Nm³/h

COMPONENTS:

- Connection body, ball valve, brazed nipple and union nut can be assembled corresponding to the type of gas.



ORDERING CONFIGURATION

Model	Gas	Lever Color		
POU845	Fuel Gas	FG	Red	RD
POU846	Inert Gas	IG	Yellow	YW
POU847	Oxygen	OX	Blue	BE
POU653			Black	BK
POU353			Grey	GY
POUH47			Green	GN
POUH47L				

Ordering configuration example:
POU845-FG-RD
POU653-IG-BK
Other options upon request. Please contact us.
If you need more details, ask our Team to provide
Technical Datasheets for Point Of Use devices.



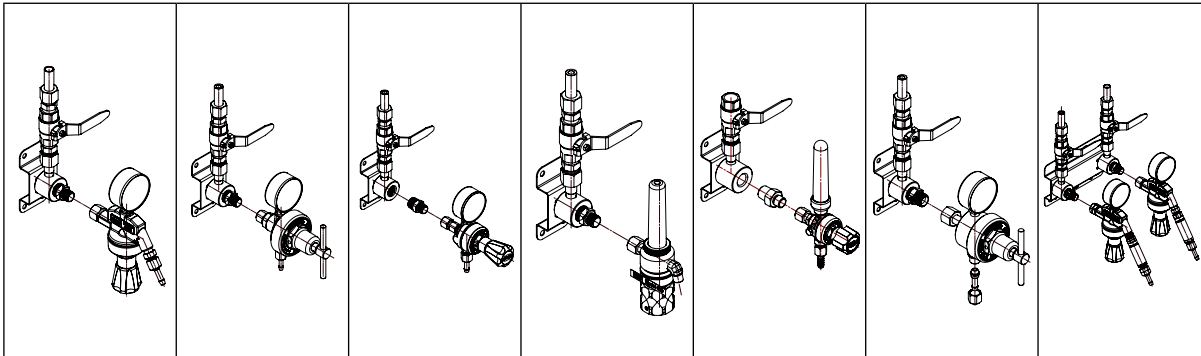
Model shown:
POU845-1-A-100X-C-D



Model shown:
POU845-3-A-100X-C-1,5AC-B-15FN2-C-DBN

POINT-OF-USE KITS & REGULATORS

You can order a ready to use Point Of Use kit with your favorite regulator



GAS TYPE / POU REG	POU 846	POU 847	POU 845	POU 653	POU 353	POU H47*	DUAL POU 846
Acetylene	POU-RD-846-1.5-G3/8"LH-AC	POU-RD-847-1.5-ABNT218.2-AC	POU-RD-845-1.5-9/16"LH-AC				DUAL POU-RD-846-1.5-FBA-G3/8"LH-AC/OX
	POU-YW-846-1.5-G3/8"LH-AC	POU-RD-847-1.5-XXXX-AC					
	POU-RD-846-1.5-FBA-G3/8"LH-AC						
Oxygen	POU-BE-846-4-G3/8"RH-OX	POU-GN-847-10-AB-NT218.1-OX	POU-BE-845-10-9/16"RH-OX			POU-BE-H-47-15-XXXX-IG	
	POU-BE-846-10-G3/8"RH-OX	POU-GN-847-15-AB-NT218.1-OX				POU-BE-H-47-25-XXXX-IG	
		POU-BE-847-10-XXXX-OX				POU-BE-H-47-40-XXXX-IG	
		POU-BE-847-15-XXXX-OX					
Propane	POU-RD-846-4-G3/8"LH-PR	POU-RD-847-4-ABNT218.2-PR	POU-RD-845-4-9/16"LH-PR				
		POU-RD-847-4-XXXX-PR					
Argon/CO ₂	POU-BK-846-10-G3/8"RH-IG	POU-GY-847-50L-ABNT218.1-IG	POU-BK-845-30L-G1/4"RH-IG	POU-BK-653-30L-G1/4"RH-IG	POU-BK-353-30L-XXX-IG	POU-BK-H-47-15-XXXX-IG	
	POU-BK-846-15L-G3/8"RH-IG	POU-GY-847-50L-ABNT218.1-IG		POU-BK-653-30L-G1/4"RH-LOCK-IG		POU-BK-H-47-25-XXXX-IG	
	POU-BK-846-30L-G3/8"RH-IG	POU-BK-847-15-XXXX-IG				POU-BK-H-47-40-XXXX-IG	
	POU-BK-846-50L-G3/8"RH-IG	POU-BK-847-15L-XXXX-IG					
Forming Gas	POU-RD-846-30L-XXXX-FG	POU-BK-847-30L-XXXX-FG					
		POU-BK-847-50L-XXXX-FG					

* also available with lateral inlet/outlet as POU H47L version

353
MODEL

353-30FLAR

LOCKABLE version

ECONOMICAL PIPELINE REGULATOR

MODEL SHOWN:
353-30FLAR

APPLICATIONS:

Designed for light duty welding from industrial pipeline points

FEATURES:

Built smart and priced economically

Compact design, forged brass body for maximum strength

Design is more resistant to CO₂ freeze-up and gauge damage than typical flow control devices

Saves gas - operates at pressures lower than typical

Maximum inlet pressure 10 bar

Flowmeter with easy-to-read polycarbonate outer tube cover for strength and 360° visibility

One-piece encapsulated seat design with internal filter and PTFE (Teflon®) seat

Lockable version available

7 year warranty

MODEL NO.

GAS

MAX INLET PRESSURE (bar)

FLOW (lpm)

FLOWMETER (lpm)

353-30FLAR

Argon / CO₂

10

0 - 30

0 - 30

353-30FLAR LOCKABLE

Argon / CO₂

10

0 - 30

0 - 30

653
MODEL

653-30FLAR

LOCKABLE version

PIPELINE FLOWMETER WITH SHIELDING GAS SAVING FEATURE

MODEL SHOWN:
653-30FLAR

APPLICATIONS:

All types of welding

Designed to deliver high accuracy gas flow and to reduce the consumption of shielding gas

FEATURES:

Forged brass body for maximum strength

Pipeline gas supplied

Inlet filter to protect against contamination

Precise gas flow control

Strong flowmeter resistant to mechanical damages

Polycarbonate outer tube cover with good 360° visibility

Side entry

One-piece encapsulated seat design with internal filter and PTFE (Teflon®) seat

Lockable version available

7 year warranty

MODEL NO.

GAS

MAX INLET PRESSURE (bar)

FLOW (lpm)

SUPPLY PRESSURE GAUGE (bar)

FLOWMETER (lpm)

653-30FLAR

Argon / CO₂

10

0 - 30

-

0 - 34

653-30FLAR LOCKABLE

Argon / CO₂

10

0 - 30

-

0 - 34

* Teflon® is a registered trademark of The Chemours Company.

POINT-OF-USE KITS & REGULATORS

H47
MODEL

H47AS-40-0X

H47L version

HIGH FLOW PIPELINE REGULATOR

MODEL SHOWN:
H47AS-40-0X

APPLICATIONS:

Designed for high flow requirement for feeding industrial gas pipelines for plasma and laser cutting

FEATURES:

Maximum inlet pressure 60 bar

Rear inlet connection

Air flow over 370 m³/h

Stainless steel diaphragm

T- screw handle provides smooth turning action and long service life

One-piece encapsulated seat design with internal filter and PTFE (Teflon®) seat

7 year warranty

MODEL NO.

GAS

MAX INLET PRESSURE (bar)

DELIVERY PRESSURE (bar)

MAX (AIR) FLOW (m³/h)

DELIVERY PRESSURE GAUGE (bar)

H47DS-15**

Argon, CO₂, Nitrogen, Air, Helium, Hydrogen, Oxygen, Methane

60

0 - 15

330

0 - 25

H47DS-25**

Argon, CO₂, Nitrogen, Air, Helium, Hydrogen, Oxygen, Methane

60

0 - 25

350

0 - 40

H47AS-40**

Argon, CO₂, Nitrogen, Air, Helium, Hydrogen, Oxygen, Methane

60

0 - 40

390

0 - 60

H47L

Argon, CO₂, Nitrogen, Air, Helium, Hydrogen, Oxygen, Methane

60

0 - 40

390

0 - 60

847
MODEL

847-50-L

Model 847 with a double flowmeter

PIPELINE REGULATOR

MODEL SHOWN:
847-50-L

APPLICATIONS:

Specially designed to allow high flow rate from industrial and laboratory pipeline points. Particularly suited to machine cutting where more than one torch is used. Also for heavy cutting and heating.

FEATURES:

High flow and outlet pressure (up to 15 bar) line regulator

Forged brass body for maximum strength

Sintered alloy inlet filter to trap impurities

Maximum inlet pressure 25 bar

15 lpm, 30 lpm and 50 lpm versions available for Argon and CO₂

One-piece encapsulated seat design with internal filter and PTFE (Teflon®) seat

7 year warranty

MODEL NO.

GAS

MAX INLET PRESSURE (bar)

DELIVERY PRESSURE (bar)

MAX (AIR) FLOW (m³/h)

DELIVERY PRESSURE GAUGE (bar)

FLOWGAUGE (lpm)

847-1.5-AC

Acetylene

25

0 - 1,5

13

0 - 2,5

-

847-4-LP

Propane

25

0 - 4

76

0 - 6

-

847-10-0X

Oxygen

25

0 - 10

95

0 - 16

-

847-10**

Argon, CO₂, Nitrogen, Air, Helium, Hydrogen, Methane

25

0 - 10

95

0 - 16

-

847-15-0X

Oxygen

25

0 - 15

135

0 - 25

-

847-15**

Argon, CO₂, Nitrogen, Air, Helium, Hydrogen, Methane

25

0 - 15

135

0 - 25

-

847-15-L-AR/CD

Argon / CO₂

25

-

-

-

0 - 15

847-30-L-AR/CD

Argon / CO₂

25

-

-

-

0 - 30

847-50-L-AR/CD

Argon / CO₂

25

-

-

-

0 - 50

* Teflon® is a registered trademark of The Chemours Company.
**The regulator is available for all the listed gases. When ordering always specify gas.

28 Industrial Gas Distribution Systems

THE HARRIS PRODUCTS GROUP
www.harrisproductsgroup.eu

THE HARRIS PRODUCTS GROUP
www.harrisproductsgroup.eu

Industrial Gas Distribution Systems 29

845
MODEL7
YEAR WARRANTY

PIPELINE REGULATOR

APPLICATIONS:

- Specially designed to allow high flow rate from industrial and laboratory pipeline points

FEATURES:

- High flow
- Outlet pressure up to 10 bar
- Forged brass body for maximum strength
- Maximum inlet pressure 25 bar
- One-piece encapsulated seat design with internal filter and PTFE (Teflon®) seat
- 7 year warranty

MODEL SHOWN:
845-30-L-AR

MODEL NO.	GAS	MAX INLET PRESSURE (bar)	DELIVERY PRESSURE (bar)	MAX (AIR) FLOW (m³/h)	DELIVERY PRESSURE GAUGE (bar)	FLOWGAUGE (lpm)
845-1.5-AC	Acetylene	25	0 - 1,5	13	0 - 2,5	-
845-4-LP	Propane	25	0 - 4	76	0 - 6	-
845-10-0X	Oxygen	25	0 - 10	95	0 - 16	-
845-10**	Argon, CO ₂ , Nitrogen, Air, Helium, Oxygen, Methane	25	0 - 10	95	0 - 16	-
845-15-L-AR/CD	Argon / CO ₂	25	-	-	-	0 - 15
845-30-L-AR/CD	Argon / CO ₂	25	-	-	-	0 - 30
845-50-L-AR/CD	Argon / CO ₂	25	-	-	-	0 - 50

846
MODEL7
YEAR WARRANTY

PIPELINE REGULATOR

APPLICATIONS:

- Specially designed to allow high flow rate from industrial and laboratory pipeline points

FEATURES:

- High flow and outlet pressure (up to 10 bar) line regulator
- Forged brass body for maximum strength
- Sintered alloy inlet filter to trap impurities
- Downward knob improves operator safety
- Maximum inlet pressure 25 bar
- One-piece encapsulated seat design with internal filter and PTFE (Teflon®) seat
- 7 year warranty

MODEL SHOWN:
846-4-LP-GAS

MODEL NO.	GAS	MAX INLET PRESSURE (bar)	DELIVERY PRESSURE (bar)	MAX (AIR) FLOW (m³/h)	DELIVERY PRESSURE GAUGE (bar)	FLOWGAUGE (lpm)
846-1.5-AC	Acetylene	25	0 - 1,5	13	0 - 2,5	-
846-4-LP	Propane	25	0 - 4	76	0 - 6	-
846-10-0X	Oxygen	25	0 - 10	95	0 - 16	-
846-10**	Argon, CO ₂ , Nitrogen, Air, Helium, Hydrogen, Methane	25	0 - 10	95	0 - 16	-
846-15-L-AR/CD	Argon / CO ₂	25	-	-	-	0 - 15
846-30-L-AR/CD	Argon / CO ₂	25	-	-	-	0 - 30
846-50-L-AR/CD	Argon / CO ₂	25	-	-	-	0 - 50

* Teflon® is a registered trademark of The Chemours Company.

**The regulator is available for all the listed gases. When ordering always specify gas.

FLASHBACK ARRESTORS

- Prevent reverse flow of gases with built-in check valve
- Extinguish flashback fire with sintered metal filter
- Thermal cut-off which positively shuts off the gas in case of hose fire, burn or repeated flashbacks (only "T" version)
- Pressure operated cut-off which positively shuts off the gas when outlet pressure exceeds inlet pressure (only "3T" version)



REGULATOR TYPE								
PART NO.	GAS	MAX FLOW (l/h)	MAX PRESSURE (bar)*				INLET THREAD	OUTLET THREAD
			OXY	AC	LPG	H ₂		
188-L	Fuel gas	30 000	-	1,5	5	3,5	9/16"-18-UNF-2B-LH	9/16"-18-UNF-2A-LH
188-R	Ox	100 000	25	-	-	-	9/16"-18-UNF-2B-RH	9/16"-18-UNF-2A-RH
188-LGB	Fuel gas	30 000	-	1,5	5	3,5	G 3/8"-LH-UNI ISO 228	G 3/8"-A-LH-UNI ISO 228
188-RGB	Ox	100 000	25	-	-	-	G 3/8"-RH-UNI ISO 228	G 3/8"-A-RH-UNI ISO 228
188-2L	Fuel gas	60 000	-	1,5	5	4,0	9/16"-18-UNF-2B-LH	9/16"-18-UNF-2A-LH
188-2R	Ox	180 000	25	-	-	-	9/16"-18-UNF-2B-RH	9/16"-18-UNF-2A-RH
188-2AL	Fuel gas	60 000	-	1,5	5	4,0	5/8"-18-UNF-LH	5/8"-18-UNF-LH
188-2AR	Ox	180 000	25	-	-	-	5/8"-18-UNF-RH	5/8"-18-UNF-RH
188-2LGB	Fuel gas	60 000	-	1,5	5	4,0	G 3/8"-LH-UNI ISO 228	G 3/8"-A-LH-UNI ISO 228
188-2RGB	Ox	180 000	25	-	-	-	G 3/8"-RH-UNI ISO 228	G 3/8"-A-RH-UNI ISO 228
188-GL	Fuel gas	30 000	-	1,5	5	3,5	G 1/4"-LH-UNI ISO 228	G 1/4"-A-LH-UNI ISO 228
188-GR	Ox	100 000	25	-	-	-	G 1/4"-RH-UNI ISO 228	G 1/4"-A-RH-UNI ISO 228
188-FFL	Fuel gas	30 000	-	1,5	5	3,5	M16x1.5-6H-LH	M16x1.5-6g-LH
188-FFR	Ox	100 000	25	-	-	-	M16x1.5-6H-RH	M16x1.5-6g-RH



188- (L & R)



188-2 (L & R)

REGULATOR TYPE								
PART NO.	GAS	MAX FLOW (l/h)	MAX PRESSURE (bar)*				INLET THREAD	OUTLET THREAD
			OXY	AC	LPG	H ₂		
188-TL	Fuel gas	30 000	-	1,5	5	3,5	9/16"-18-UNF-2B-LH	9/16"-18-UNF-2A-LH
188-TR	Ox	100 000	25	-	-	-	9/16"-18-UNF-2B-RH	9/16"-18-UNF-2A-RH
188-TAL	Fuel gas	30 000	-	1,5	5	3,5	5/8"-18-UNF-LH	5/8"-18-UNF-LH
188-TAR	Ox	100 000	25	-	-	-	5/8"-18-UNF-RH	5/8"-18-UNF-RH
188-TLGB	Fuel gas	30 000	-	1,5	5	3,5	G 3/8"-LH-UNI ISO 228	G 3/8"-A-LH-UNI ISO 228
188-TRGB	Ox	100 000	25	-	-	-	G 3/8"-RH-UNI ISO 228	G 3/8"-A-RH-UNI ISO 228
188-2TAL	Fuel gas	60 000	-	1,5	5	4,0	5/8"-18-UNF-LH	5/8"-18-UNF-LH
188-2TAR	Ox	180 000	25	-	-	-	5/8"-18-UNF-RH	5/8"-18-UNF-RH
188-2TL	Fuel gas	60 000	-	1,5	5	4,0	9/16"-18-UNF-2B-LH	9/16"-18-UNF-2A-LH
188-2TR	Ox	180 000	25	-	-	-	9/16"-18-UNF-2B-RH	9/16"-18-UNF-2A-RH
188-2TLGB	Fuel gas	60 000	-	1,5	5	4,0	G 3/8"-LH-UNI ISO 228	G 3/8"-A-LH-UNI ISO 228
188-2TRGB	Ox	180 000	25	-	-	-	G 3/8"-RH-UNI ISO 228	G 3/8"-A-RH-UNI ISO 228



188-T (L & R)

REGULATOR TYPE								
PART NO.	GAS	MAX FLOW (l/h)	MAX PRESSURE (bar)*				INLET THREAD	OUTLET THREAD
			OXY	AC	LPG	H ₂		
188-3TLGB	Fuel gas	60 000	-	1,5	5	4,0	G 3/8"-LH-UNI ISO 228	G 3/8"-A-LH-UNI ISO 228
188-3TRGB	Ox	180 000	15	-	-	-	G 3/8"-RH-UNI ISO 228	G 3/8"-A-RH-UNI ISO 228



188-3T (LGB & RGB)

*1 bar=100 kPa

HIGH PRESSURE HOSES



APPLICATIONS:

- For connecting gas supply panels and gas cylinder

FEATURES:

- Three versions of hoses: stainless steel, PTFE and Polyamide
- High pressure: working pressure up to 300 bar (4350 psig)
- Length 1 m or 2 m
- Inner diameter 6 mm
- All hoses equipped with a stainless steel safety wires
- All types of couplings according to the customer's specification available
- Acetylene (AC) with standard check valve included

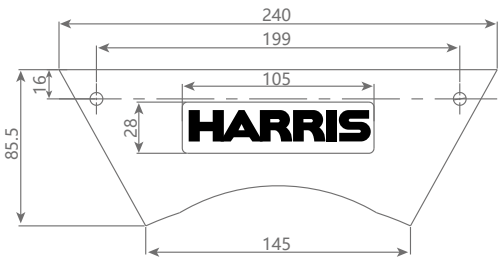
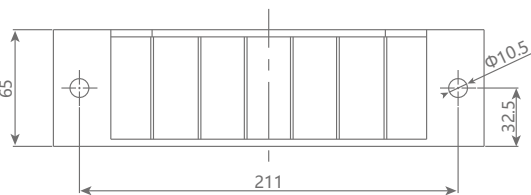
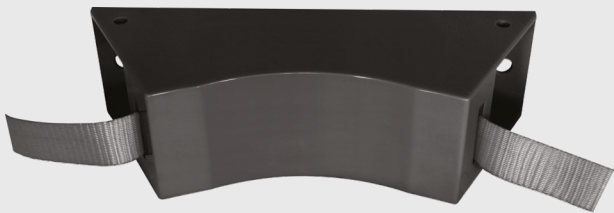
MODEL	MATERIAL	LENGTH	OUTLET (MANIFOLD CONNECTION)	INLET (CYLINDER CONNECTION)	OPTIONS
IMS-FH	PTFE + aramid braid + 304 stainless steel wire braid	1 m	1/4" NPT male 001	1/4" NPT male 001	Elbow inlet connection 000
				1/4" NPT female 002	Elbow inlet and outlet connection EE
	Corrugated stainless steel 316L + double AISI 304 stainless steel braid	2 m	1/4" NPT female 002	Please specify, e.g.:	Straight inlet connection SC
	Polyamide + aramid fibre braid + steel wire braid + pinpricked polyurethane			DIN 477-1 No. 10	With check valve CV Without check valve W/O CV

Example: IMS-FH-S-1000-001-D10-000-CV

CYLINDER WALL BRACKET

DESCRIPTION:

- Special design for one cilinder
- Easy installation to a wall or construction
- Delivered with safety belt
- ABS material



PART NO.	DESCRIPTION	MATERIAL
9009506	Cylinder wall bracket	ABS

ALARM SYSTEM - HAS

FEATURES:

- Alarm box is used for monitoring low supply pressure gas source and inform user visually by LED light and acoustically by loud buzzer.
- Temporally silent snoozer for the buzzer
- Extra connection for external alarm
- Activated by external contact gauges
- Three version available 2, 6, 10 possible contact connection
- Readable LED light display
- 230V AC, 50 Hz; 110V AC, 60 Hz power supply (on request)

ORDERING INFORMATION:

4302085	HAS1, 1 connection
4302086	HAS2, 2 connections
4302087	HAS4 4 connections
4302088	HAS6, 6 connections
4302089	HAS10, 10 connections



CONTACT GAUGES

FEATURES:

- Contact pressure gauges with digital signal
- Set point adjustable over 10-90% of scale
- Double scale bar / psig
- c/w 2 meters of cable

ORDERING INFORMATION:

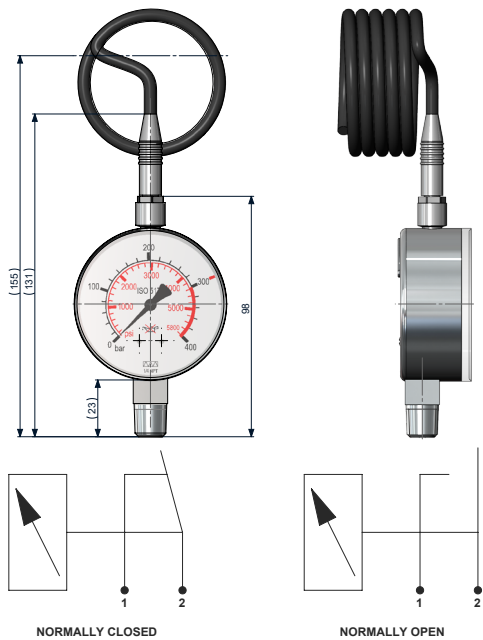
9017491	Contact Gauge LP-N0-025 (0-25 bar, 0-362 psig)
9017639	Contact Gauge LP-N0-060 (0-60 bar, 0-870 psig)
9017640	Contact Gauge HP-N0-250 (0-250 bar, 0-3625 psi)
9017492	Contact Gauge HP-N0-400 (0-400 bar, 0-5800 psi)



TECHNICAL DATA:

Body material	316L
Workin Voltage	180/VDC/130/VDC
Max. Voltage	200VDC
Max ON/OFF amperage	0.5A
Contact Power	10 Watt
Contact Current (initial)	150 mΩ
Contact Capacitance	0.2pF
Insulation Resistance	10 ¹² Ω
Active Time	0.6msec (Max)
Release Time	0.2 msec (Max)
Frequency	5.2kHz
Working Temperature	-40°C ~ 125°C
Nominal Diameter	63 mm
Connection	¼" NPT (M)(bottom)
Lenght of cable	2 meters
Scale	bar/psig
Window	Laminated safety glass
Switching Accuracy	+/- 2.5% full scale
Weight	

DIMENSIONS:



HIGH PRESSURE DIAPHRAGM VALVE - DV300

FEATURES:

- ▶ Regulators shutoff valves / instrument valves
- ▶ Max. inlet pressure 300 bar (4350 psig)
- ▶ Very high sealing capacity
- ▶ Metal to metal sealing to atmosphere
- ▶ Made of 316L stainless steel for corrosive gases
- ▶ Made of chrome-plated brass for non-corrosive gases and mixture up to 6.0
- ▶ DV300K (knob version) - 1/2 turn
- ▶ DV300L (lever version) - 1/4 turn

TECHNICAL DATA:

Purity	Up to 6.0
Inlet pressure	Max. 300 bar (4350 psig)
Inlet/outlet connection	1/4 FNPT x 1/4 FNPT and 1/4 MNPT x 1/4 FNPT
Oxygen use	Suitable

MATERIAL SPECIFICATIONS:

Seal	Kel-F (CTFE)
Seal	Metal to metal SS 316L Stainless Steel
Leak rate	2,0 x 10 ⁻⁸ mbar l/s He
Flow capacity	Cv = 0,13



Type A
1/2 Turn Instrument Valve
P/N: 9105190



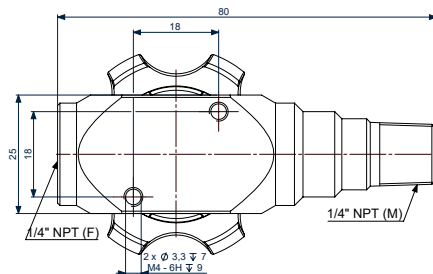
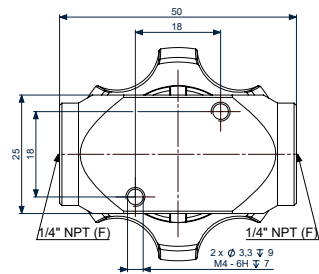
Type B
1/4 Turn Instrument Valve
P/N: 9101389



Type C
Regulator Valve
P/N: 9101383



Type D
1/4 Turn Regulator Valve
P/N: 9101386



ORDERING INFORMATION:

TYPE	PART NO.	DESCRIPTION	INLET CONNECTION	OUTLET CONNECTION	BODY MATERIAL
A	9105190	DV300KC-1/2 turn	1/4" FNPT	1/4" FNPT	Nickel-plated brass
	9105191	DV300KS-1/2 turn	1/4" FNPT	1/4" FNPT	Stainless steel 316L
B	9101389	DV300LC-1/4 turn	1/4" FNPT	1/4" FNPT	Nickel-plated brass
	9101390	DV300LS-1/4 turn	1/4" FNPT	1/4" FNPT	Stainless steel 316L
C	9101383	DV300KC-MNPT-1/2 turn	1/4" MNPT	1/4" FNPT	Nickel-plated brass
	9101384	DV300KS-MNPT-1/2 turn	1/4" MNPT	1/4" FNPT	Stainless steel 316L
D	9101386	DV300LC-MNPT-1/4 turn	1/4" MNPT	1/4" FNPT	Nickel-plated brass
	9101387	DV300LS-MNPT-1/4 turn	1/4" MNPT	1/4" FNPT	Stainless steel 316L

TRANSDUCERS FOR TELEMETRY SYSTEM

APPLICATIONS:

- ▶ Industrial process control, testing and calibration systems
- ▶ Refrigeration, ventilation, air conditioning, hydraulics, pneumatics
- ▶ Food industry, sanitation
- ▶ Power generation and transmission

FEATURES:

- ▶ Customizable range, output signal, and connection
- ▶ Compact design in 316 stainless steel
- ▶ SMD electronics – high resistance to vibration
- ▶ Wide variety of process connections, seals, and flanges
- ▶ Option for sanitary process applications
- ▶ Low hysteresis and extended life span
- ▶ Immune to noise and electromagnetic interference
- ▶ Locally manufactured

TECHNICAL DATA:

- ▶ Ranges from vacuum (-1 to 0 BAR) up to 0 to 1000 BAR
- ▶ Output signal: 4-20 mA or 1-10 V; 0-5V; 0-10V DC
- ▶ Connection: 1/2" GAS, M12x1/4" NPT or BSP (others available upon request)
- ▶ Enclosure rating: IP65; IP68 (optional)
- ▶ Accuracy: ±0.5%; ±0.25%; or ±0.1% FS (optional)
- ▶ Power supply: 10 to 30 VDC
- ▶ Electrical connection: DIN43650, M12, cable gland (optional)
- ▶ Zero and span adjustment (optional)
- ▶ Enclosure and connection material: 316 stainless steel
- ▶ Piezoresistive sensor in 316 stainless steel



MGG-TP-IP65-060-1/4NPT
0-60 bar for line regulators



MGG-TP-IP65-0400-1/4NPT
0-400 bar for cylinder regulators

FEATURE	SPECIFICATION
Sensor Type	Piezoresistive
Measurement Range	1.0 BAR to 0...1000 BAR
Accuracy	±0.25% F.S. (including hysteresis and repeatability)
Stability	Measurement range > 2 BAR = 0.1...0.2%
Overpressure	F.S. / Measurement range > 2 BAR = 2...4 MBAR / 2 x F.S.
Diaphragm Material	Stainless Steel AISI-316L
Sensor Filling Oil	Standard silicone, others available
Fluid Temperature	-40°C to 180°C
Ambient Temperature	-20°C to 80°C
Enclosure Material	Stainless Steel AISI-316L
Protection Degree	IP65
Electrical Connection Type	DIN 43650
Communication Cable	Made of PVC (optional)
Connection Material	Stainless Steel AISI-316L
Process Connection	G1/4B SP / M12 x 1 / 7/16 UNF / NPT / PT / BSPT and others
Material in Contact with Process	Stainless Steel AISI-304L, O-ring FPM (fluorocarbon), other materials available
Output Signal	4...20 mA, 1...10 VDC, 3...5 VDC
Power Supply	10 to 30 VDC
Load Resistance	< (U - 10) / 0.02 A Ω
Frequency Limit	3 kHz
Power Consumption	Max: 24 mA
Response Time	< (90%) < ms
Electromagnetic Compatibility	EN61000-6-2:2005; EN61000-6-3:2007; EN61326:200



A LINCOLN ELECTRIC COMPANY

www.harrisproductsgroup.eu

Harris Calorific International Sp. z o.o.

ul. Strefowa 8
58-200 Dzierżonów, Poland
+48 74 646 23 52
marketingharris@lincolnelectric.eu

Harris Calorific GmbH

Beethovenstraße 9
88450 Berkheim, Germany
+49 0 8395 91280 0
fax: +49 0 8395 91280 20
info@harriscal.de

Lincoln Electric Portugal, S.A.

Arruamento A, Edifício Harris Products, Apartado 9
3850-184 Albergaria-a-Velha
+351 234 246 380
harris_portugal@lincolnelectric.com

Harris Calorific Srl

Via Ronco Maruni 34
40068 San Lazzaro di Savena (BO), Italy
+39 51 3766 227
fax: +39 51 3766 202
venitalia@harriscal.it