



Cavagna Group

Wherever gas is used, we are there

iVIPR

Valve with Integrated Pressure Regulator

ALL IN ONE SOLUTION



- Save Money
- Save Time
- Ensure Safety



Benefits



COST SAVING

- » The I-VIPR has a 10 years service life.
- » Never buy, repair or calibrate a regulator again.
- » Maximum Service Pressure up to 300 bar / 4350 PSI for longer use of cylinder*
- » No more need to connect and disconnect a regulator.
- » Easy and quick to exchange the cylinder: No regulator connection and disconnection required. Take the empty cylinder and deliver the new one.



SAFETY

- » Reduced connection points: No leaks between the valves and regulator connection.
- » No thread damages on the valve due to overtorque while connecting the regulator.
- » Guard which fully protects the system and its gauges and resistant to impact test up to 100kg / 220 lbs.
- » Reduced risk to the regulator.



USER FRIENDLY

- » Easy to carry around thanks to the guard
- » Quick on welding connection
- » Reads the cylinder content pressure and outlet pressure
- » No empty cylinders taken to work site

* Does not apply to acetylene cylinders





For 70 years our Group has been designing, developing and manufacturing valves and regulators for compressed gas containers. Through our manufacturing and distribution network, we have been able to serve, satisfy and consolidate our business with global players on all 5 continents. The IVIPR valve has been designed to be safe, reliable and multipurpose. Cavagna Group is there where it counts.

For Industrial Gases



COMPRESSED GASES
WITH PRESSURE
SETTING
VALVE



MIX GASES FOR
SHIELDING WITH
FLOW SETTING
VALVE



ACETYLENE WITH
PRESSURE
SETTING
VALVE

Key Main Features

LOW PRESSURE GAUGE ▶

Different scales are available (BAR / PSI / L per min)



▲ HIGH PRESSURE GAUGE

Active type for the immediate control of the gas pressure into the cylinder.

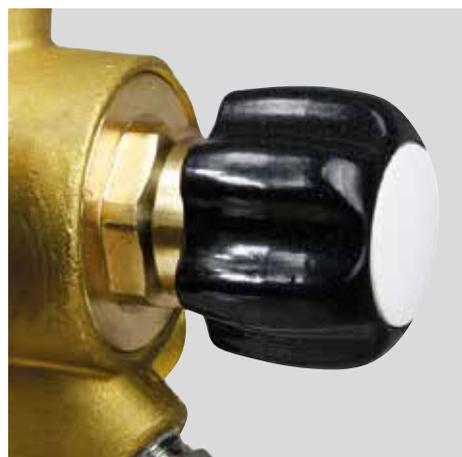
PRESSURE RELIEF VALVE ▶

Protects the low pressure side of the pressure regulator and the downstream devices.



▲ FILLING PORT WITH CHECK VALVE

Available according to the customer requirement, is equipped with a back check valve and a synerized filter to prevent contamination during the filling process. Filling adapter requirement for 540, 580 series.



◀ **ADJUSTABLE PRESSURE REDUCER**

Diaphragm type to increase the gas flow stability in every service condition. An internal filter prevents the malfunction caused by particles. Available in different colors related to the gas in service.



▲ **OUTLET CONNECTIONS**

Threaded connection and quick connection available according to EN 561.

RESIDUAL PRESSURE DEVICE

IVIPR for O₂ and Mixture gas service also incorporates a residual pressure device, to protect from accidental contamination of the gas cylinder.

(not available on the acetylene valve)

▶ **DIFFERENT INLET THREAD AVAILABLE**

Inlet thread according to the customer requirement



▶ **MAIN VALVE**

Low torque operating mechanism with sliding piston. Aluminium hand wheels with personalized logo cap are available.



Plastic protection guard compliant with ISO 11117 and **available in different colors** and customizations on demand. Except acetylene decomposition test.



Technical Table

IVIPR series

Valve with Integrated Pressure Regulator

COMPRESSED GASES WITH PRESSURE SETTING

List Features

- Residual pressure valve with integrated Pressure Regulator
- Ergonomically designed with a compact, user friendly casing
- All of the user's primary functions are visible and accessible from one side without turning the cylinder
- Meets all the requirements of ISO 22435, EN-ISO 15996

Material components

Handwheel	Aluminium
Valve Body	Brass alloy according to EN12165
O-ring	EPDM
Main shut off seat pad	PA66
Spring	Stainless steel AISI 302
Sealing cap	Acetal resin
Spring regulator	Cu Be, AISI
Filter	Sintered Bronze
Diaphragms pressure reducer seat	PA 66
Toroidal ring	EPDM

MIX GASES FOR SHIELDING WITH FLOW SETTING

ACETYLENE WITH PRESSURE SETTING

List Features

- Valve with integrated Pressure Regulator
- Ergonomically designed with a compact, user friendly casing
- All of the user's primary functions are visible and accessible from one side without turning the cylinder
- Meets all the requirements of ISO 22435 (except acetylene decomposition test)

Material components

Handwheel	Aluminium
Valve Body	Brass alloy according to EN12165
O-ring	EPDM
Main shut off seat pad	PEEK
Spring	Stainless steel AISI 302
Sealing cap	Acetal resin
Spring regulator	AISI
Filter	Sintered Bronze
Diaphragms pressure reducer seat	PA 66
Toroidal Ring	EPDM

Options

- Customized Handwheel logo cap
- Threaded connection and quick connection available according to EN 561

COMPRESSED GASES WITH PRESSURE SETTING

Pressure		
Maximum Service Pressure	230 or 300 bar	3,336 or 4,350 PSI
Test	276 bar or 360 bar	4,000 PSI or 5200 PSI
Outlet pressure (adjustable)	0 to 10 bar	0 to 145 PSI
Temperature Range	-40°C ÷ +65°C	-40°F ÷ +149°F
Life Cycle	2,000 minimum	
Guaranteed External Tightness	leakage ≤ 6 cm ³ /h	0.788 scfm
Guaranteed Internal Tightness	leakage ≤ 6 cm ³ /h	0.788 scfm
Residual pressure range	2.5 to 4 bar	35 to 58 PSI
	(according to customer's specifications)	
Flow Rate	Q1 30 m ³ /h	

MIX GASES FOR SHIELDING WITH FLOW SETTING

Pressure		
Maximum Service Pressure	230 or 300 bar	3,336 or 4,350 PSI
Test	276 bar or 360 bar	4,000 PSI or 5200 PSI
Temperature Range	-40°C ÷ +65°C	-40°F ÷ +149°F
Life Cycle	2,000 minimum	
Guaranteed External Tightness	leakage ≤ 6 cm ³ /h	0.788 scfm
Guaranteed Internal Tightness	leakage ≤ 6 cm ³ /h	0.788 scfm
Residual pressure range	2.5 to 4 bar	35 to 58 PSI
	(according to customer's specifications)	
Flow rate	Q1 0-32 L/min	

ACETYLENE WITH PRESSURE SETTING

Pressure		
Maximum Service Pressure	25 bar	360 PSI
Test	30 bar	435 PSI
Outlet Pressure	adjustable 0 to 12 bar /	0 to 17.4 PSI
Temperature Range	-40°C ÷ +65°C	-40°F ÷ +149°F
Life Cycle	2,000 minimum	
Guaranteed External Tightness	leakage ≤ 6 cm ³ /h	0.788 scfm
Guaranteed Internal Tightness	leakage ≤ 6 cm ³ /h	0.788 scfm
Flow rate	Q1 1.5 m ³ /h	





cavagna group

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Manufacturing Facilities



Cavagna Group SpA

Via Statale n.11/13 - 25011 Ponte S.Marco di Calcinato (BS) - Italy

Tel. +39 030 9663111 - Fax +39 030 9980894

www.cavagnagroup.com