cavagna group

Advanced solutions for gas control

iVIPR

Valve with Integrated Pressure Regulator

ALL IN ONE SOLUTION

Save Money

Save Time

Ensure Safety

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i-VIPR
Valve with Integrated Pressure Regulator

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
- Fast hook-up

* Does not apply to acetylene cylinders

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For over 60 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

OXYGEN
VALVE

ACETYLENE
VALVE

Ar/CO_2 MIX AND INERT GASES MIX
VALVE

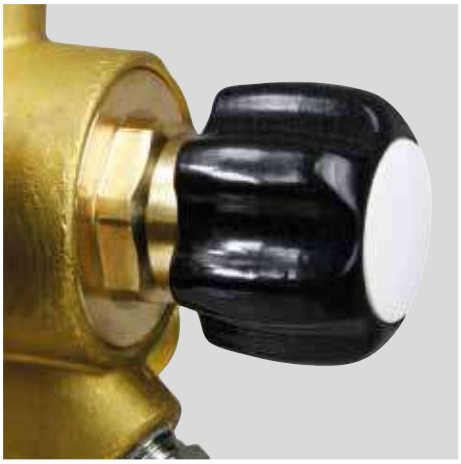
Key Main Features

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 acording to the customer requirement, is equipped with a back check valve and a synterized 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.

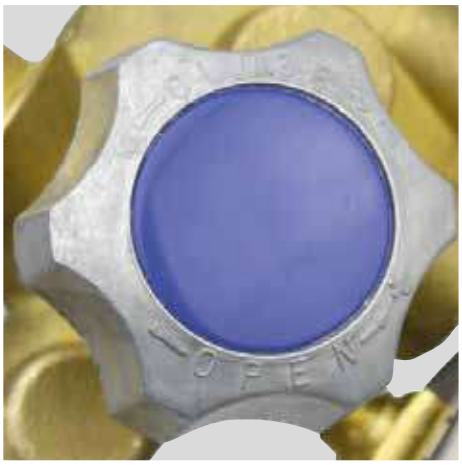
DIFFERENT INLET THREAD AVAILABLE ▶

Inlet thread according to the customer requirement

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)

▼



◀ MAIN VALVE

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

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iVIPR
Valve with Integrated Pressure Regulator

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

FOR OXYGEN

FOR AR/CO2 MIX AND INERT GASES MIX

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	HYTREL 5526
Toroidal ring	EPDM

FOR ACETYLENE

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	HYTREL 5526
Toroidal Ring	EPDM

Options

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

FOR OXYGEN

Pressure		
Maximum Service Pressure	230 or 300 bar	3,336 or 4,350 PSI
Test	276 bar	4,000 PSI
Outlet pressure	adjustable 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	

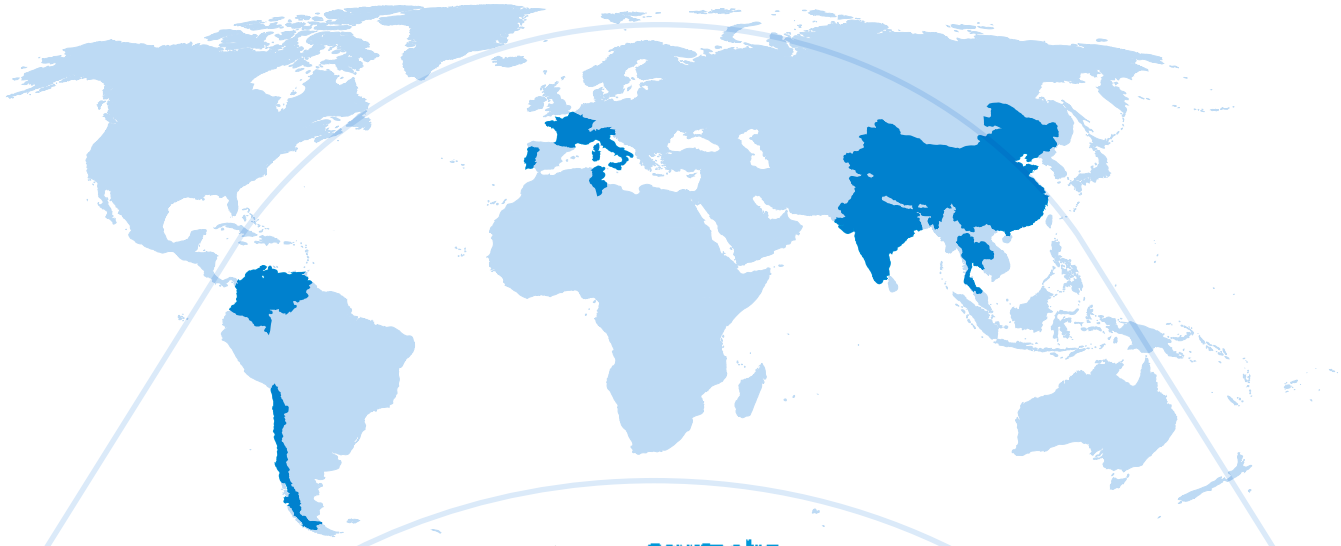
FOR AR/CO2 MIX AND INERT GASES MIX

Pressure		
Maximum Service Pressure	230 or 300 bar	3,336 or 4,350 PSI
Test	276 bar	4,000 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 0-40 L/min	

FOR ACETYLENE

Pressure		
Maximum Service Pressure	25 bar	360 PSI
Test	30 bar	435 PSI
Outlet Pressure	adjustable 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 m^3/h	

Manufacturing Facilities



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PERGOLA s.r.l. - Via Statale n.11/13 - 25011 Ponte S.Marco di Calcinato (BS) - Italy
Tel. +39 030 9663111 - Fax +39 030 9980894
www.cavagnagroup.com