

ASCEND™ SERIES

Valve Integrated Pressure Regulators

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ASCEND™ Series Valve Integrated Pressure Regulator

The patented ASCEND™ Series is a user-friendly, all-in-one pressure regulator that minimizes safety risks and streamlines gas cylinder-related tasks.

Connect, Get Set & Go!

Harris Products Group regulators are manufactured to perform in the most critical applications including our newest innovation: **valve integrated pressure regulators**.



**GAS CONTENT AT A
GLANCE**



EASILY CONNECT



**FAST
OFF / ON CONTROL**



**EASY PRESSURE/
FLOW SETTING**



**MINIMIZE SAFETY
ISSUES**



Maximize Productivity and Improve Safety

Less steps to arc - Set up your cylinder in 7 steps versus the 17 steps needed for traditional regulators. [Set up time drastically reduced]

Easy to operate - No tools required for set up.

Optimize operation - No downstream purging required due to cut-off valve built into the quick connect.

Increase safety - Operators do not need to switch out the regulator, allowing for fewer operational interruptions and a safer environment. The operator never in contact with high pressure. Lever permit to stop immediately the gas flow in case of any trouble; VIPR overall protected by the guard.

Cost saving - Eliminate cost for purchase and maintenance of the pressure regulator.

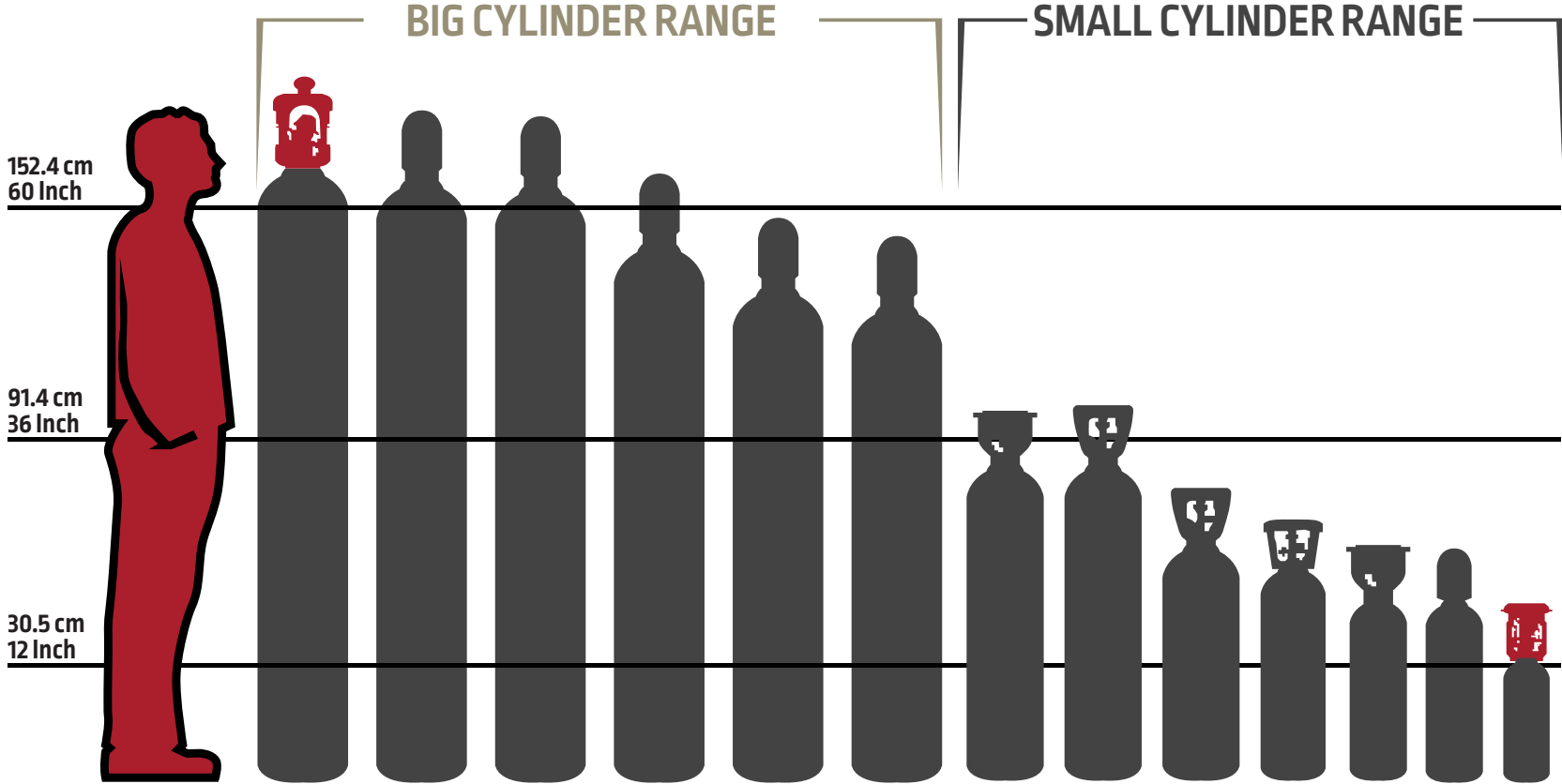
Cylinder management optimization - With the cylinder gas content at glance, full and empty cylinders are immediately identified.

Gas and welding quality increase - The compressed gas versions are equipped with residual pressure device to protect the gas and cylinder avoiding contamination.



One Size Fits Most

Extremely compact and sloping design ensures the best ergonomic fit on all gas cylinder sizes simply by installing suitable guards



Must be a threaded ring for attachment of the VALVE GUARD regardless of cylinder size.

Accessories and Replacement Parts



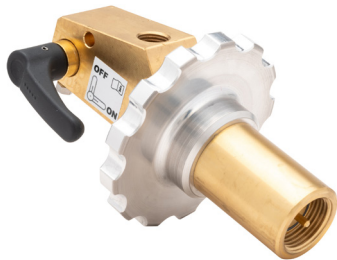
ASCEND® GUARD

- Different thread size available
- Models for big and small cylinders
- Plastic or metal options on request



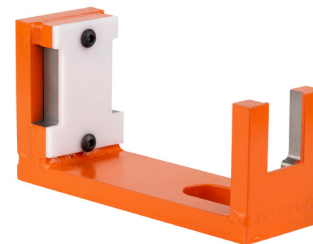
QUICKMATIC FEMALE QUICK CONNECT

- Long-lasting stainless steel pin connection
- Features an automatic gas cut-off when gas supply is disconnected
- 9/16" (1.43 cm) - 18" (45.72 cm) B connections
- 3 versions available, Oxygen, Fuel Gas & Inert Gas



MANUAL FILL TOOL

- Movable pin actuation for filling valve
- Hand tight operation
- Available quick connect versions [On request]

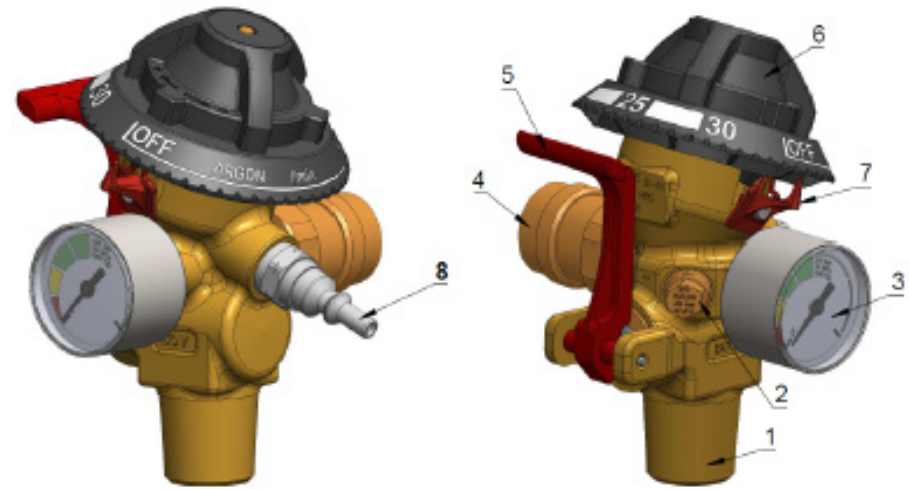


VALVING TOOL

- Valving and de-valving tool
- Specially designed for ASCEND™ VIPR for inlet 12N

Technical Description

Product Type	VIPR (Vale with integrated pressure regulator)
Product Name	ASCEND™
Field of Application	Welding, cutting and allied processes
Reference Market	Industrial Market
Gas Cylinder Size	Suitable for cylinders up to size B50
VIPR Protection	The VIPR shall be properly coupled with a suitable valve guard
VIPR Dimension	Height L ≤ 145mm ; Width R ≤ 75mm
VIPR Weight	About 1,5 kg (Depending on product model and gas version)
Products Model	V1F (Flow indication) ; V1P (Pressure indication)
Gas Version	Argon mixtures; Oxygen ; Acetylene
Main Body Material	Hot forged brass
Working Pressure	Suitable for pressures up to 310bar / 4500psi
(1) Inlet Connection	25E, 12N, or other on request. Predisposition for dip-tube installation
(2) Rupture Disc Device	On request
(3) Content Indicator	Permanent reading pressure regulator
(4) Filling Connection	Shape by using ref. to UNI, ISO, DIN, AFNOR and other request !WARNING! - The Filling circuit is in direct contact with the high pressure cylinder content. The filling connection is equipped with a check-valve
Residual Pressure Device	Upstream position with respect to the main valve, ISO 15996 compliant
Valve	Shut-off mechanism protected by a filter
(5) Valve Operating Device	Three-position lever , to be operated only by hand (UPWARD = close; HORIZONTAL = open; DOWNWARD = emergency closing)
Pressure Regulator	Regulator valve with Harris proven encapsulated seat for long service life protected by a filter
(6) Regulator Hand-Wheel (Regulation of Flow)	Adjustable hand-wheel, to be operated only by hand, with set-flow/ pressure indication printed on it (V1F : l/min or SCFH; V1P : bar or psi)
(7) Reading Pointer	Indicator for reading the set-flow/pressure valve printed on hand-wheel (6)
Pressure Relief Device	Indirect deflected reducing gas vent integrated on diaphragm (only for Argon and Oxygen versions)
(8) Outlet Connection	Thread or quick connection (depending on gas version/model)



Performance

Product Model	V1F		V1P	
	ARGON	OXYGEN	ACETYLENE	
Transport and Storage Temperature	T min. = -40°C [-40°F] / T MAX. = +65°C [+149°F]			
Service Temperature	T min. = -20°C [-4°F] / T MAX. = +65°C [+149°F]			
Working Pressure P_w	Up to 310 bar / 4500psi		25 bar (363 psi)	
Maximum Outlet Static Pressure (In normal conditions)	7,5 bar (108 psi)	12 bar (175 psi)	1,4 bar (21 psi)	
Rated Outlet Pressure/Flow	0-30 (N l/min) / 0-65 (SCFH) or other on request	0 - 10 bar (0 - 145 psi)	0 - 1,3 bar (0 - 15 psi)	
Hand-Wheel indication (Set-flow/pressure printed on hand-wheel(H))	Up to 30 (N l/min) / 65 (SCFH) or other on request	2 - 10 bar (30 - 140 psi)	0,2 - 1,3 bar (3 - 15 psi)	
Residual Pressure Device	1,5 - 5,0 bar (20 - 70 psi) retain pressure		NO	



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Technical Service | 1.800.733.4043
HPGcustserv@lincolnelectric.com

THE HARRIS PRODUCTS GROUP
A Lincoln Electric Company
4501 Quality Place · Mason, OH · 45040
www.harrisproductsgroup.com