ID-NOVA™ PLATFORM · GAS FLOW CONTROL

ID-Nova **H2V**

Controller

Precision gas flow control, purpose-built for ID-Nova™ and Mini-Nova™ HVOF torches.

FULLY ANALOGUE

No electrical input required.



>800 slpm	**>500** slpm	**20** bar	**N_2** / Ar / CO_2
Hydrogen (H_2) flow @ 20 bar	Oxygen (O_2) flow @ 20 bar	Max operating pressure	Auxiliary gas capability (Warm Spray mode)

OVERVIEW

The ID-Nova H2V Controller is a high-pressure, analogue HVOF gas flow controller purpose-built for the ID-Nova™ and Mini-Nova™ torch systems. Delivering hydrogen flows exceeding 800 slpm and oxygen flows exceeding 500 slpm at 20 bar, it provides the precise flow ranges these torches demand — capability not adequately met by standard HVOF controllers.

TECHNICAL SPECIFICATIONS

Max operating pressure	**20 bar**
Flow capacity	**H_2 >800 slpm · O_2 >500 slpm @ 20 bar**
Auxiliary gases	**N_2, Ar or CO_2 capable (Warm Spray)**
Carrier gas	**Nitrogen (N_2)**
Flow display	**Dial-type gas flowmeters**
Flow control	**Needle valve per gas channel**
Safety	**Hydrogen interlock**
Compatible torches	**ID-Nova™ MK7, Mini-Nova™**
Optional integration	**Spraywerx Water Management System**

KEY FEATURES

- Flowmeters rated >1800 psi (124 bar) at 70 °F
- Metal gas flow tubes for high-pressure, hazardous service
- H_2 >800 slpm and O_2 >500 slpm @ 20 bar
- Auxiliary gas port (N_2, Ar or CO_2) for Warm Spray mode
- Shutoff valves, pressure gauges and needle valve control
- Hydrogen interlock cuts H_2 flow if torch water supply is interrupted
- Fully analogue — no electrical input required
- Compatible with the Spraywerx Water Management System

APPLICATIONS

01 **ID-Nova™ MK7 & Mini-Nova™** — Optimized flow for ID HVOF coating.

02 **Warm Spray mode** — Auxiliary N_2, Ar or CO_2 for a cooler flame and higher jet velocity.

03 **High-pressure service** — Exceeds the standard HVOF controller envelope.

04 **Hazardous gas environments** — Metal tube construction rated for H_2/O_2, plus a hydrogen interlock.

05 **Production & field deployment** — Analogue design, no electrical infrastructure.

Spraywerx Technologies, Inc.
115-2433 Dollarton Highway
North Vancouver, BC, Canada V7H 0A1

info@spraywerx.com
spraywerx.com
+1 (604) 306-2061

