

Product Data Sheet

Metco DJFEW Water-Sensing Interface Unit

Metco™ DJFEW Water Sensing Interface Unit for manual HVOF spray monitors the water supply for water-cooled, gas-fueled HVOF spray guns. It safely shuts down the spray gun if the water supply is inadequate.

The Metco DJFEW Water Sensing Interface Unit Interface Unit has been designed for use in manual Diamond Jet HVOF spray systems where a water-cooled Diamond Jet HVOF spray gun is used. The DJFEW is used in conjunction with the Metco DJF Flowmeter Unit and an appropriate cooling water supply for the gun. It can be installed within close proximity to the DJF flowmeter, for convenience. The interface unit monitors water flowing through the water-cooled air cap and shuts off the fuel gas if the water pressure drops below a preset limit.

1 General Description

The DJFEW is wall-mountable, making it convenient to place in a location that allows easy access for operation. Mounting of the DJFEW near the DJF unit is recommended.

The unit is essential to system and operator safety for manual HVOF spray systems using a water-cooled Diamond Jet spray gun. The DJFEW is designed to connect the fuel gas supply from the DJF unit to the spray gun, in addition to monitoring the cooling water circuit.

The DJFEW monitors gun water pressure from the HVOF spray gun and shuts off the process fuel gas supply should the gun water pressure fall below an internally preset limit. This will extinguish the HVOF flame and prevent any immediately hazardous condition. The operator can then safely shut down the remaining components of the manual HVOF spray system and correct the problem that caused the low water pressure condition.

2 Features and Benefits

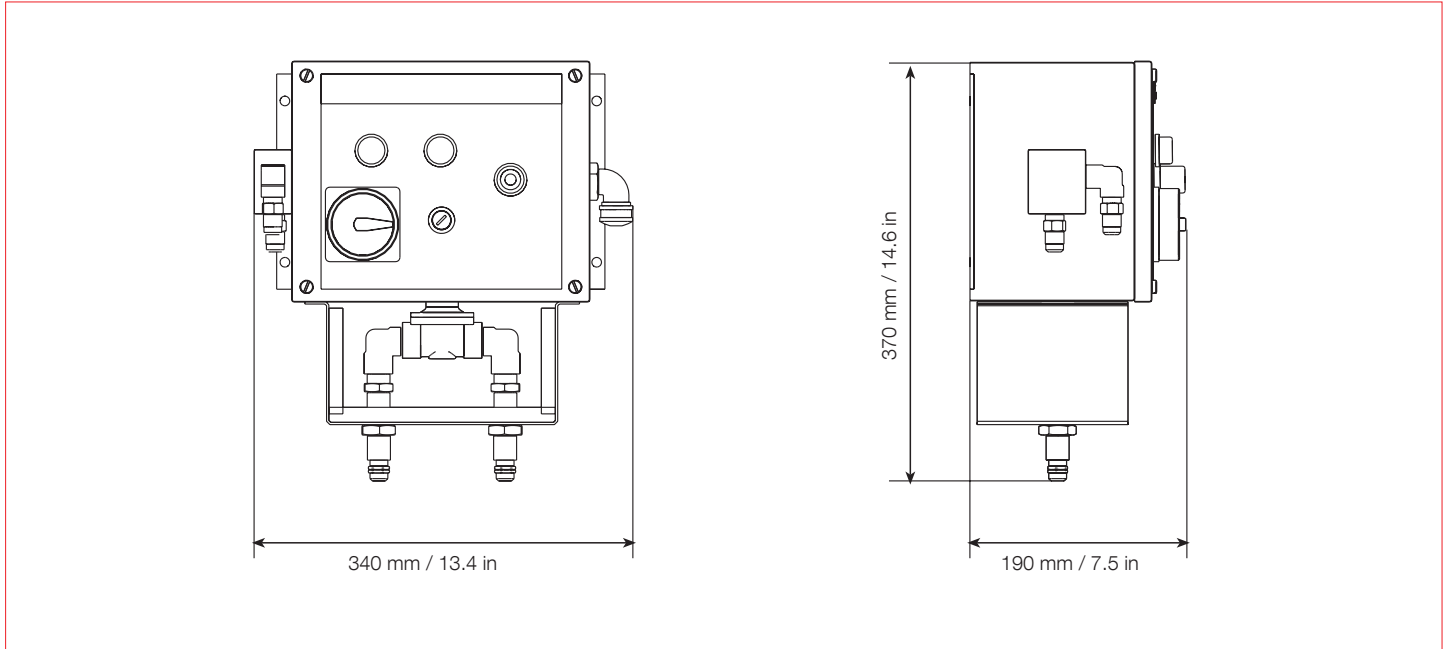
- Provides a safe and convenient method to monitor cooling water to the HVOF spray gun.
- Economical and simple; inexpensive to own and operate with minimal training required.
- Internally preset pressure limits simplify operation.
- Front panel on/off access permits the DJFEW unit to remain inline and used with both air-cooled and water-cooled Diamond Jet spray guns (turned off for air cooled guns).
- Front panel ready light indicates when water pressure is sufficient for spray operations.
- Conveniently and easily mounts on a wall.
- Rugged design that has been built for long service life with very little maintenance.
- CE conformant.



DJFEW – Water Sensing Interface Unit

3 Technical Data

3.1 Dimensions



3.2 Specifications

Operating Limits

Minimum water pressure	2.8 bar	40 psi
Minimum water flow	9.46 l/min	2.5 gal/min

Connections

Water inlet / outlet	3/4 in -18 UNF
Fuel inlet / outlet	1/4 in NPT, 9/16-18, left-hand thread

Electrical Requirements

Voltage	120 to 230 VAC, 50/60 Hz
Power	15 W

Weight

14 kg	31 lbs
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Information is subject to change without prior notice.