

Product Data Sheet

DJFEW

DJFEW Water Sensing Interface Unit for Manual HVOF Spray

The Sulzer 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 Sulzer 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.



DJFEW • Water Sensing Interface Unit

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.

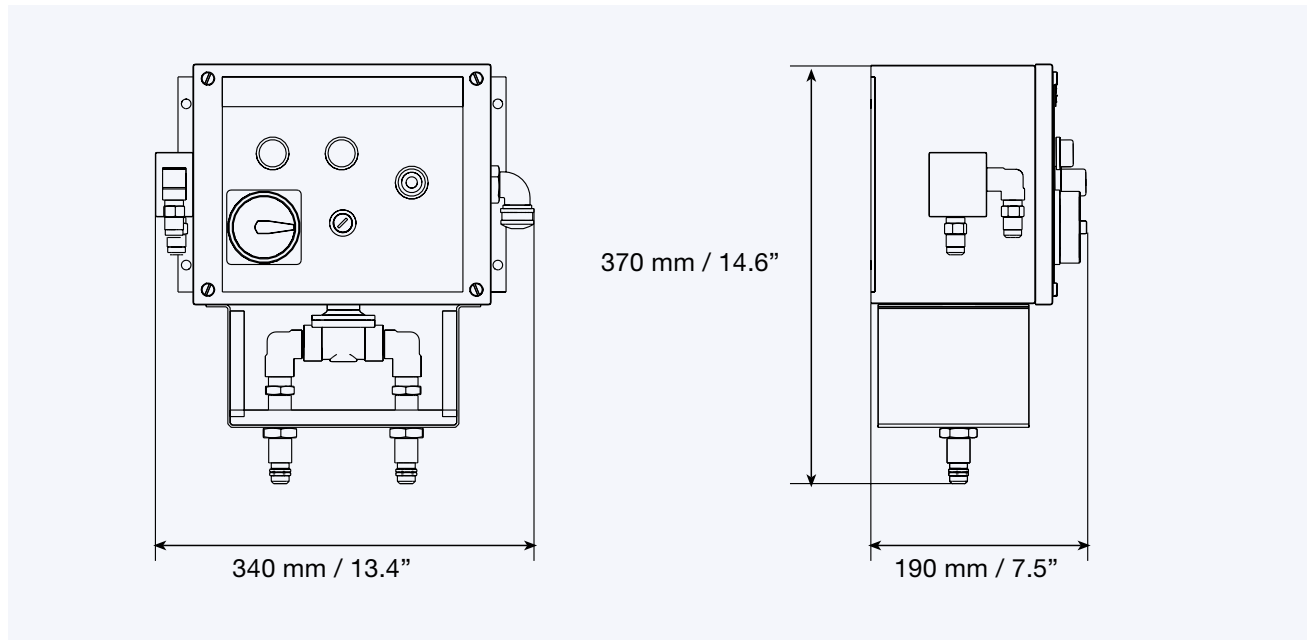
2 Features and Benefits

- Provides a safe and convenient method to monitor water to the HVOF spray gun.
- Economical and simple; inexpensive to own and operate with minimal training required.
- Internally preset pressure limits simplifies operation.
- Front panel on/off access permits the DFEW 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.

3 Technical Data

3.1 Dimensions

Sulzer Metco



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" -18 UNF
Fuel inlet / outlet	1/4" NPT, 9/16-18, left-hand thread
Electrical Requirements	
Voltage	120-230 VAC, 50/60 Hz
Power	15 W
Weight	
	14 kg 31 lbs

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