

High Pressure Carbon Dioxide

Discharge Nozzle – Type “D” (Corrosion Resistant)

Description

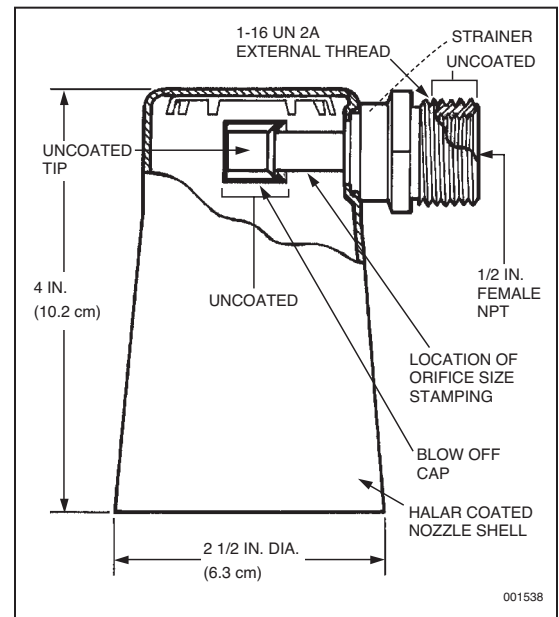
- The corrosion resistant (CR) type “D” nozzle is used primarily for local application wet bench protection but is also approved for use as a total flooding nozzle. The nozzle shell is drawn sheet steel and the insert is stainless steel.
- ▶ The shell is coated with a corrosion resistant material which is not effected by the acid type environment of a typical wet bench hazard. The CR “D” type nozzle is available in orifice sizes ranging from 1 through 7. A blow off cap is used to seal the uncoated tip.
 - ▶ A plastic pipe seal adaptor is also available which can be threaded on the external nozzle threads so plastic tubing can be attached to this to cover the discharge piping within the corrosive environment.

The last 3/8 in. of the 1-16 UN2A external threads are not coated to allow the use of stainless steel tubing or installation of the pipe seal adaptor. If an adaptor is not used, the exposed thread must be wrapped with a CR material to seal the exposed threads.

The discharge rate of the nozzle depends on the orifice size and nozzle pressure. The area covered in local application is dependent upon the discharge rate and the height of the nozzle above the surface being protected. Height range: 15 to 91 1/2 in. (38 to 232 cm). Discharge rate: 11 to 48.5 lb per minute (5 to 22 kg per minute). See carbon dioxide design manual for FM listed area coverage and required flow rates.

Component	Material	Thread Size/Type	Orifice Size	Approvals
▶ Type “D” nozzle	Shell: Steel	1/2 in. NPT Female	1 through 7	Listed for use with FM Approved systems
▶	External Thread: Steel			
▶	Insert: Stainless Steel			
▶	Strainer: Monel (internal)			
▶	Shell coated with acid resistant material (Halar® ECTFE)			
Blow Off Cap	Teflon® (TFE)			

Shipping Assembly Part No.	Description	Orifice Code
422647	Type “D” nozzle with strainer	1
422648	Type “D” nozzle with strainer	1+
422649	Type “D” nozzle with strainer	2
422650	Type “D” nozzle with strainer	2+
422651	Type “D” nozzle with strainer	3
422652	Type “D” nozzle	3+
422653	Type “D” nozzle	4
422654	Type “D” nozzle	4+
422655	Type “D” nozzle	5
422656	Type “D” nozzle	5+
422657	Type “D” nozzle	6
422658	Type “D” nozzle	6+
422659	Type “D” nozzle	7
422888	Pipe Seal Adaptor	
422890	Spare Blow Off Cap (1)	



Note: For non-typical wet bench environments, contact Technical Services.

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