NOZZLES & ORIFICE PLATES

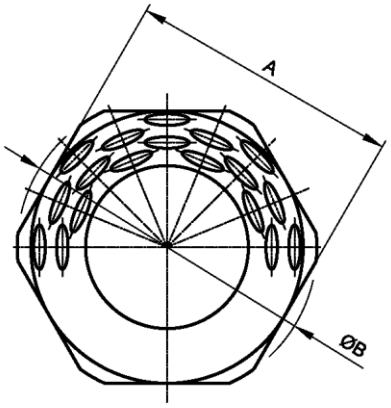
DESCRIPTION

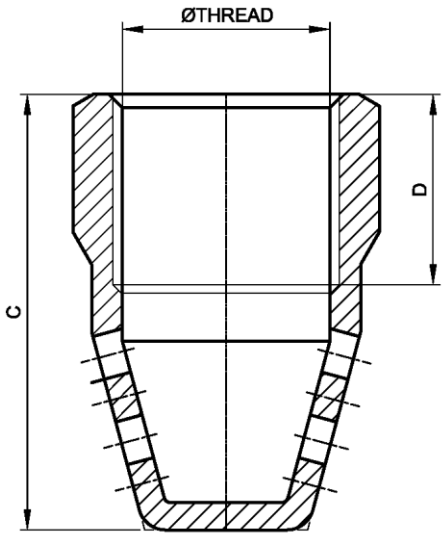
The discharge nozzles, manufactured from chromed steel, come in different sizes, from ½" to 2". Each size is available with either 360° or 180° dispersal patterns. The nozzle consists of a head with multiple orifices or ports, which allow the optimum vaporization and distribution of the agent, and an internal diaphragm of calculated diameter that controls the agent flow.

The nozzles are the devices through which the fire extinguishing agent is discharged within the protected enclosure. They consist of a head containing multiple orifices into which a diaphragm is fitted with one single orifice. This device is designed to produce optimum fire extinguishing agent distribution. The pressure in the pipe system will depend on the pressure losses (pressure drop) of the pipe and the orifice used in the diaphragm. This orifice is drilled in accordance with the hydraulic calculation for each installation.

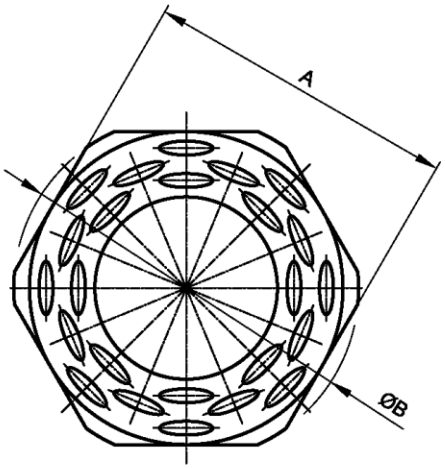
The ratio between the internal diameter of the pipe and the orifice of the diaphragm should be at minimum 10 % for ½" nozzles and 20 % for another size of nozzle.

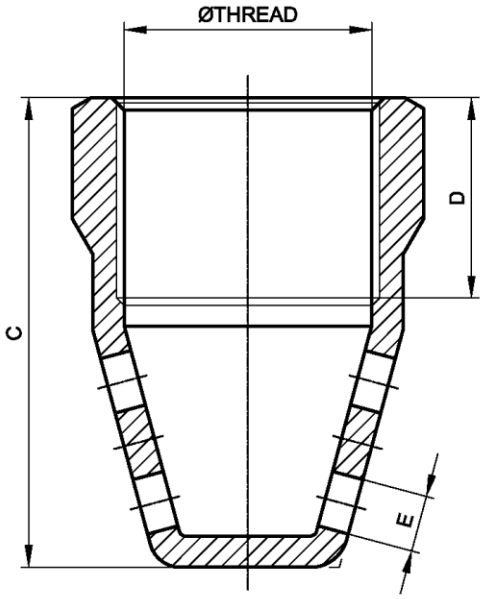
The ratio between the internal diameter of the pipe and the orifice of the diaphragm should be at maximum 80 %.



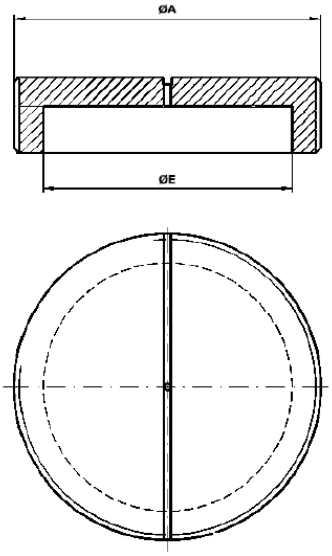


18 DRILLS (ØE)





Model No.	Ø Thread	A (Inch)	ØB (Inch)	C (Inch)	D (Inch)	ØE (Inch) x No Drills	Thread	Working Pressure (psi)
NF N180° 2501	½”	1.181	1.299	1.968	0.866	0.157	NPT National Pipe Thread Taper ANSI/ ASME B1.20.1	2059.5
NF N180° 2502	¾”	1.378	1.496	2.165	0.906	0.197		
NF N180° 2503	1”	1.575	1.732	2.520	1.102	0.256		
NF N180° 2504	1¼”	1.968	2.165	2.953	1.260	0.354		
NF N180° 2505	1½”	2.362	2.598	3.543	1.378	0.394		
NF N180° 2506	2”	3.150	3.465	4.134	1.496	0.512		
NF N360° 2401	½”	1.181	1.299	1.968	0.866	0.157		
NF N360° 2402	¾”	1.378	1.496	2.165	0.906	0.197		
NF N360° 2403	1”	1.575	1.732	2.520	1.102	0.256		
NF N360° 2404	1¼”	1.968	2.165	2.953	1.260	0.354		
NF N360° 2405	1½”	2.362	2.598	3.543	1.378	0.394		
NF N360° 2406	2”	3.150	3.465	4.134	1.496	0.512		



Model No.	ØA (Inch)	ØE (Inch)
NF OPU 2301	3/8”	0.413
NF OPU 2302	½”	0.512
NF OPU 2303	¾”	0.689
NF OPU 2304	1”	0.866
NF OPU 2305	1¼”	1.142
NF OPU 2306	1½”	1.339
NF OPU 2307	2”	1.713

Material: Steel 11SMnPb37
Standard: UNI EN 10087:2000
Finishing: Chrome Plating
Threads According To ISO228
General Tolerances: ± 0.1

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