

PNR



UEE SERIES

VORTEX TUBE

UEE SERIES



Vortex tubes are tubular devices with no moving parts capable of generating small volumes of cold air thanks to thermal separation when connected to a pressurized gas circuit. They are traditionally used in the process industry to cool small objects or surfaces.

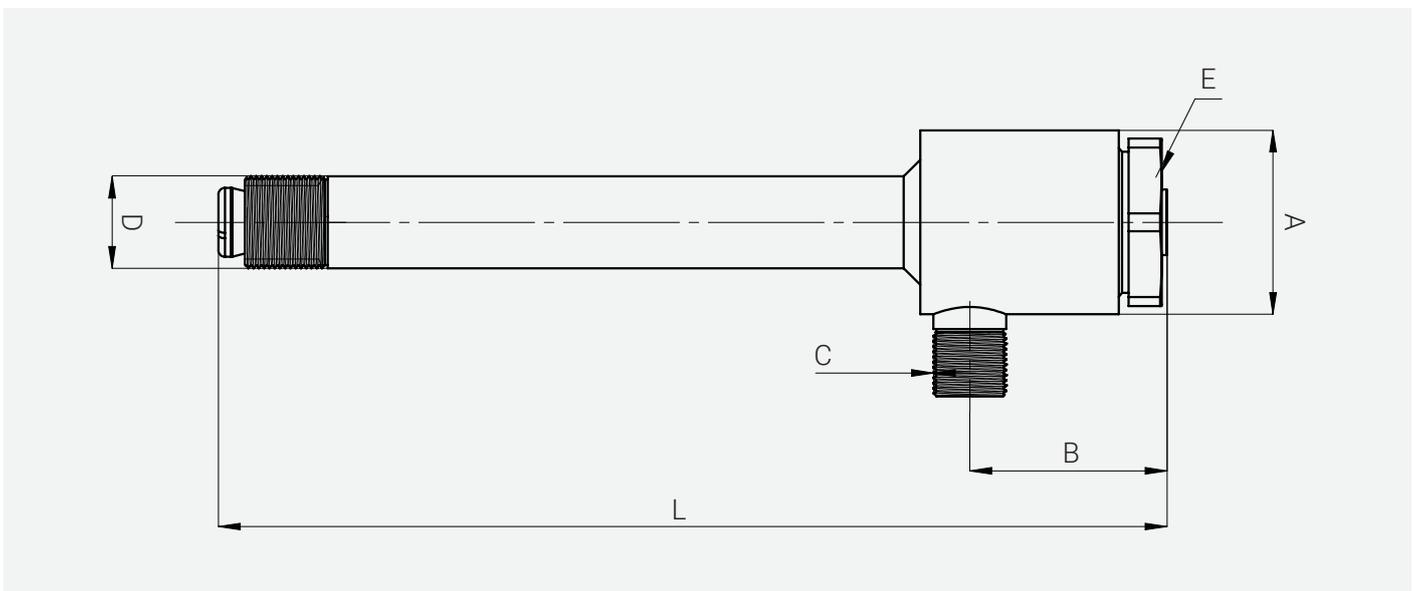
It is a simple device with no moving parts that do not require electrical connections, and it is small and light; it is also a long-lasting product, thanks to the stainless steel it is made of and the fact that it works with non-corrosive fluids.

PNR Italia's UEE vortex tubes undergo functional tests in our laboratories to ensure optimal performance.



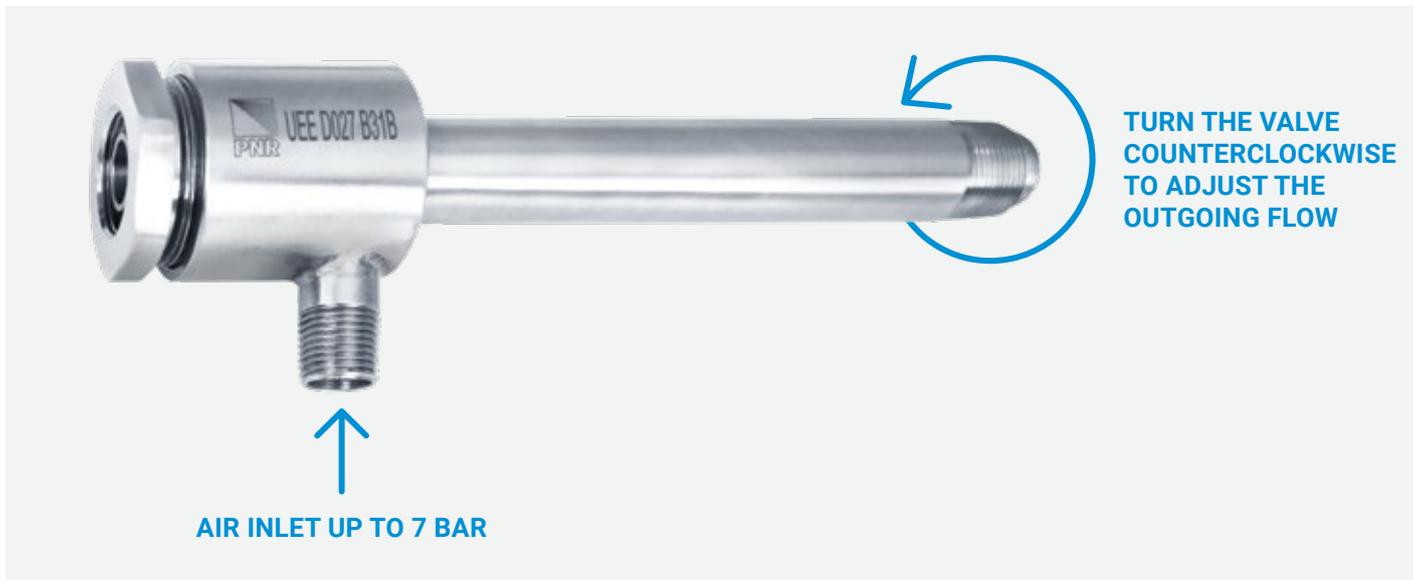
CODE	STANDARD LITER/MIN [SLPM]	COLD AIR OUTLET A [mm]	B [mm]	AIR COMPRESSED INLET CONNECTION C	HOT AIR OUTLET D	COLD AIR OUTLET E	L [mm]
UEE A001 B31X	113	33	25	1/8" NPT - BSPT	1/4" NPT - BSPT	1/4" NPT - BSP	150
UEE B007 B31X	708	38	32	1/4" NPT - BSPT	1/4" NPT - BSPT	1/4" NPT - BSP	173
UEE D027 B31X	2700	56	60	1/2" NPT - BSPT	3/4" NPT - BSPT	1" NPT - BSP	290

DIMENSIONAL DRAWING



TECHNICAL DATA

FLOW RATE	113-708-2700 slpm @ 7bar
TEMPERATURE OUTLET AIR	- 35°C + 50°C
MATERIAL	Body: AISI 316L stainless steel Valve: Brass Seals: Viton
TEMPERATURE	Max. ambient temperature: 150°C
CONNECTION	Inlet compressed air: 1/8"-1/4"-1/2" NPT/BSPT Cold air outlet: 1/4"-1" NPT/BSP Hot air outlet: 1/4"-3/4" NPT/BSPT
PRESSURE	Compressed air pressure: Max 7 bar



HOW TO MAKE UP THE VORTEX CODE

VORTEX TUBE	SIZE	FLOW RATE	MATERIAL	CONNECTION
UEE	A	123	MM	X

SIZE OF THE INLET COMPRESSED AIR THREAD

A = 1/8"

B = 1/4"

D = 1/2"

FLOW RATE

001 – 113 slpm

007 – 708 slpm

027 – 2700 slpm

MATERIAL

Body material B31 = AISI 316L

CONNECTION

B = BSPT

N = NPT

總代理



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