UAD P167 V4 ultra.drain

Stainless Steel Automatic Float Type Condensate Drain

Description

UAD P167 V4 has been developed for fully automatic discharging of condensate or any other non-aggressive fluid from compressed air [1] system. The unit can be installed as external drain on any application specified below. Condensate accumulates in the stainless steel reservoir and when the level is high enough condensate is being discharged from the system without any air losses. Direct acting valve is operated by precise level controlled floater which assures reliable and efficient operation. Thanks to robust stainless steel housing the UAD P167 V4 is suitable for heavy duty applications. Manual drain or vent is also equipped on the front side.

Applications [2]

- Air Compressor (piston or screw)
- After-cooler
- Cyclone condensate separator
- Pressure vessel/Air tank
- Air dryer
- Air filter

[1]For any other technical gas please contact us or your local dealer
[2]UAD P167 V4 can be used in variety of applications. For applications not listed please contact us or your local dealer.

Technical Specification

Operating temperature	1,5 - 120°C	35 - 248°F
Operating pressure	0 - 20 bar(g)	0 - 290 psi
Minimum reccomended operating pressure	1,5bar (g)	21,8 psi
Operating media	Condensate (air, water, oil); Non-agressive	
Nominal discharge capacity	167 l/h (at 7barg)	252 l/h(at 16barg)
Discharge orifice cross cection	1,8mm	0,0708 inch
Inlet connection	G ½" (NPT on request)	
Outlet connection	G ½" (NPT on request)	
Reservoar volume	0,4 l	
Weight	5,835 kg	
Valve type	Direct acting, Normally closed	

Materials

Housing material	Stainless steel 1.4404
Fittings, Screws	Stainless steel 1.4404
Floater	Stainless steel 1.4404
Sealing	FKM

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Capacity

	Northern Europe, Canada, Central Asia	Rest of the world	Moist tropical and subtropical regions
Peak compressor capacity [m³/min]	114,4	96,2	59,8
Peak dryer capacity [m³/min]	241,3	193,7	120,6
Peak filter capacity [m³/min]	1196	967,2	603,2

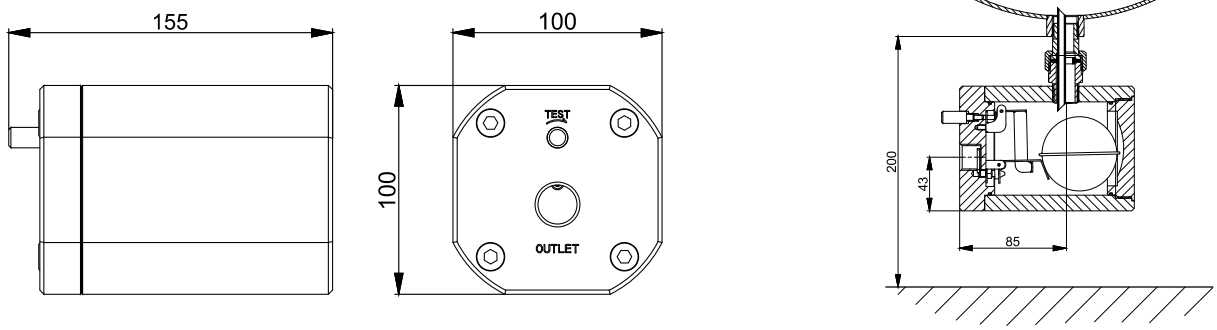
The amount of condensed water in compressed air system depends mainly on outside air temperature.
Above specified flows refer to discharge capacity at operating pressure 7barg.

Calculation of Capacity

For rough calculation of discharge capacity at certain pressure use following equation:

$Q = 63\sqrt{\Delta p}$ *Example: if operating at 7barg;* $Q = 63\sqrt{7} = 166{,}7$ l/h

Dimensions



Pressure Equipment Directive PED 2014/68/EC (Fluid Group 2)

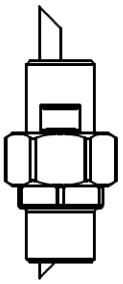
Product type	Category, module
UAD P167 V4	Not required

Maintenance

Once per year make a visual check of the drain and make sure there is no visual damage or leakage.
Clean interior of the reservoir regularly. Intervals of cleaning depend on contamination of condensate.
Replace the sealings if necessary.

Reccomendations

- We recommend the use of ball valve between pressure vessel and inlet connection.
- We recommend the use of strainer element between pressure vessel and inlet connection.
- We recommend the use of nipple with venting tube to avoid generation of air bubbles. Nipple is screwed in inlet connection.



Condensate discharged from compressed air system contains significant amounts of lubricant oil. We strongly recommend connecting the UAD P167 V4 to oil water separator.
In most countries content of oil in waste water is regulated by law.

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