

# SPECIAL PRODUCTS

In addition to the traditional heads, which fixed position to the surface to wash, PNR offers a range of products with a mobile position for the cover. The mobility of the washing head for this category can be determined by the reaction force of the washing fluid itself (for example, the UC) or by the energy supplied by an actuator, be it hydraulic or pneumatic (UK).

The washing heads defined as exceptional executions divided into two categories:

## RETRACTABLE HEADS MOVED BY AN ACTUATOR

Used:

- when a fixed element in the tank can hinder the production process;
- when the process fluid does not come into contact with the washing fluid;
- when a fixed head position inside the tank does not guarantee washing uniformity over the entire surface.

## HEADS MOVED BY THE FORCE OF REACTION

of the same washing fluid, mainly used for washing pipes.



# UKD / UKR

Our new UK tank washer is a revolution in retractor design, as it offers at the same time greater efficiency, extreme flexibility and an easier operation capability.

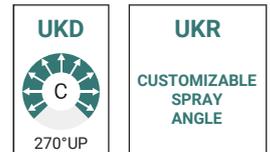
We put aside the bulky stainless-steel construction and operate our washing head via a pneumatic drive or CNC. Hence the following advantages:

- the total impact of the water jet is concentrated on the circumference of one or two hollow cone sprays, moving into the tank instead of being inefficiently dispersed over the entire internal surface;
- the alternating movement of the washer covers the total inner surface of the tank and allows what was previously impossible, such as cleaning the opposite sides of an internal mixing blade;
- having control of cylinder movement, we can program short cycles concentrated over difficult points as many times as necessary; our standard double hollow cone head has a capacity of 100 lpm at 3 bar, but customized designs can be studied, according to customer requirements.

Of course, you can use our new UK retractor as a standard one, which is installing on it a rotating head from our UBD series.

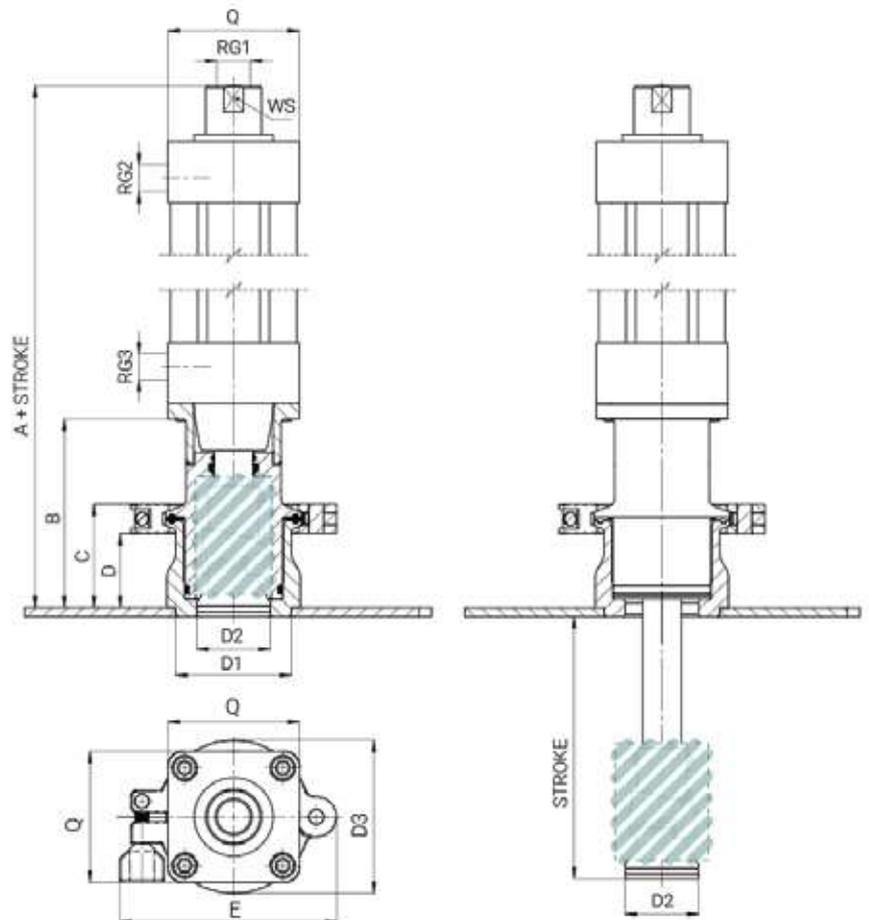
MATERIAL: AISI 316L S.S., EPDM, TEFLON/PEEK

CONNECTIONS: HEAD STRUCTURE FIXED WITH TRI-CLAMP CONNECTION  
SUPPORT STRUCTURE WELDED TO THE TANK



STROKE	A	B	C	D	E	F	Q	D1*	D2	D3	D4	WS	RG1	RG2	RG3
100 ÷ 500 STEP 50 mm	260	108	~60	~40	~120	50	75	65	42	~90	77,5 DIN 32676-C 2" 1/2 T.C	30	1/2"	3/8"	3/8"

\* This must be the hole of the tank. RG1: fluid inlet connection. RG2, RG3: air inlet connection to extend / retract



The pneumatic cylinder is equipped with special positioning sensors that generate digital signals when the washing vheads is either in fully extended or fully retracted positions.

# UKK

UKK is a retractable tank washing head designed for cleaning small containers, tanks, and pipes. Thanks to its small size and unique design, UKK can be installed flush with the wall and is an ideal cleaning product where traditional systems have difficulty accessing and operating.

Its characteristics make UKK an ideal product in the chemical and pharmaceutical sectors, and the FCMs certification also allows it to be used in the food and beverage sector.

The operation of this cleaning head is simple but highly effective: with an adequate pressure of the feed liquid (between 3 and 7 bar), the nozzle extends by 50 mm and starts the washing action. The flow rate is 35.5 lpm at 3 bar of operation.

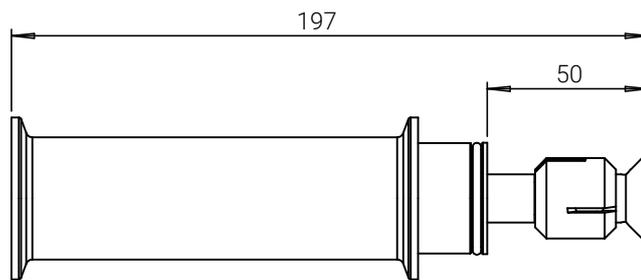
UKK is available in AISI 316 steel as a standard material with the possibility of using other metallic materials such as Hastelloy.

MATERIAL:	BODY	B31	AISI 316L S.S. (HASTELLOY ON REQUEST)
	COMPONENTS	B31	AISI 316L S.S.
		E7	VITON
		E1	PTFE TEFLON

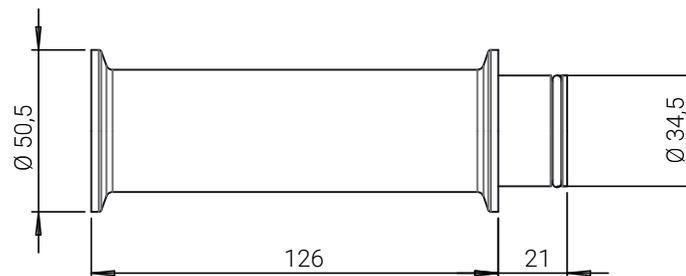
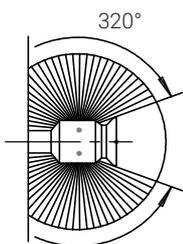
LT: 90° C



<b>FLOW RATE</b>	15-20-25-30 l/min
<b>TEMPERATURE MAX</b>	90°C
<b>BODY MATERIAL</b>	AISI 316L s.s.
<b>COMPONENT MATERIA</b>	AISI 316L s.s. VITON PTFE TEFLON
<b>PRESSURE RANGE</b>	3/7 bar
<b>CONNECTION</b>	Tri-clamp 1" 1/2
<b>COVERAGE</b>	320° up



The UKK stroke is 50 mm. The overall length of the standard version is 197 mm.



The overall diameter of the UKK is 50,5 mm. The distance between the tri-clamp connections is 126 mm.