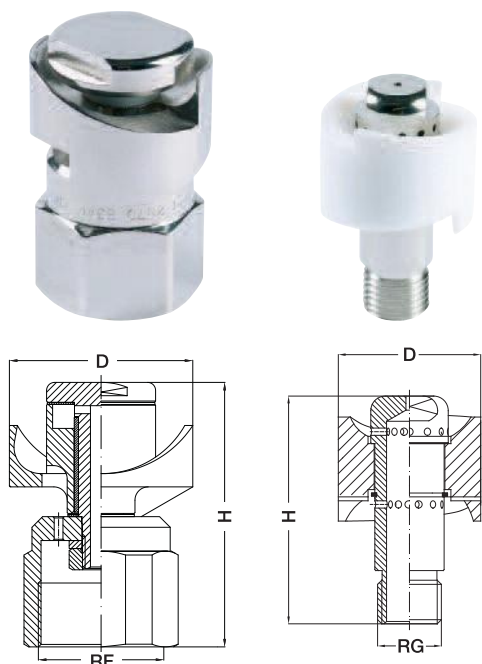


SINGLE AXIS HEADS

REACTION DRIVE

UBD



UBD rotary heads can profit from the special design of their rotary head, which allows for a very even water distribution, assuring optimum surface coverage. They assure therefore very short washing cycles, using lower quantities of water, with a definite advantage in those applications where recycled water is not allowed as a washing medium, and the volumes sent to disposal must be kept to a minimum. UBD heads work using Teflon slide bearings floating at high speed over a thin water film, the only wear part being an easily replaceable Teflon washer. Only a fraction of the liquid energy is then used to power the washing head, while the high speed of the rotating disc produces instantly a cloud of high energy droplets all over the inside surface of the tank. The clever design of this device results in no maintenance at all being necessary. Large inside passages are not easily subject to plugging while an extremely simple design with only one moving part avoids any internal jamming. All inside and outside surface are carefully polished, for fast and easy sanitizing. The two following tables give data about types with threaded connection and clip-on types.

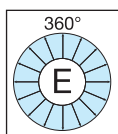
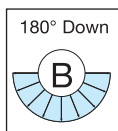
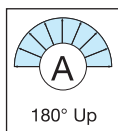
Materials

Body, shaft and rotary head B31 AISI 316L s.s. (ATEX available)
L61 Hastelloy C22 (ATEX available)

Bearings

E1 PTFE

Thread connection



The rotor of 1/4" BSPT model is made of Teflon.

Models with 3/4", 1", 1-1/2" connections can be provided also with NPT thread: in this case, H can be slightly different.

Models with clip-on connection are available on request. See page 22 for the size of UBD clip connections.

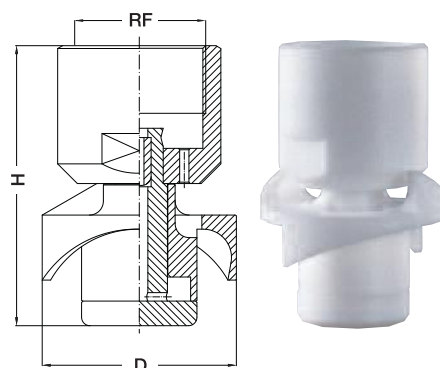
Code	Capacity at different pressures					l/min bar	Spray coverage			RG BSPT	RF BSP			Size mm	
	2,0	3,0	4,0	5,0	7,0		180°U	180°D	360°	1/4"	3/4"	1"	1-1/2"	H	D
UBD 0035 B31AG	29,0	35,0	40,0	45,0	53,0		•			•				45	28
UBD 0035 B31BG	29,0	35,0	40,0	45,0	53,0			•		•					
UBD 0035 B31EG	29,0	35,0	40,0	45,0	53,0				•	•					
UBD 0050 B31AG	41,0	50,0	58,0	64,0	76,0		•			•					
UBD 0050 B31BG	41,0	50,0	58,0	64,0	76,0			•		•				55	38
UBD 0050 B31EG	41,0	50,0	58,0	64,0	76,0				•	•					
UBD 0051 B31AG	41,0	50,0	58,0	64,0	76,0		•				•				
UBD 0051 B31BG	41,0	50,0	58,0	64,0	76,0			•			•				
UBD 0051 B31EG	41,0	50,0	58,0	64,0	76,0				•		•			75	50
UBD 0090 B31AG	73,0	90,0	104	116	137		•				•				
UBD 0090 B31BG	73,0	90,0	104	116	137			•			•				
UBD 0090 B31EG	73,0	90,0	104	116	137				•		•				
UBD 0091 B31AG	73,0	90,0	104	116	137		•					•		100	70
UBD 0091 B31BG	73,0	90,0	104	116	137			•				•			
UBD 0091 B31EG	73,0	90,0	104	116	137				•			•			
UBD 0140 B31AG	114	140	162	181	214		•					•			
UBD 0140 B31BG	114	140	162	181	214			•				•		100	70
UBD 0140 B31EG	114	140	162	181	214				•			•			
UBD 0141 B31AG	114	140	162	181	214		•						•		
UBD 0141 B31BG	114	140	162	181	214			•					•		
UBD 0141 B31EG	114	140	162	181	214				•				•	100	70
UBD 0210 B31AG	171	210	242	271	321		•						•		
UBD 0210 B31BG	171	210	242	271	321			•					•		
UBD 0210 B31EG	171	210	242	271	321				•				•		

SINGLE AXIS HEADS

UBD A

REACTION DRIVE

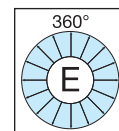
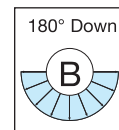
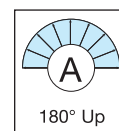
UBD A rotary heads are a simple but very efficient device for the inside cleaning of tanks. The rotary disk is rotated through the action of the cleaning fluid and produces a very dense spray which reaches all parts of the inside surface, it is the only mobile part of the unit and requires no servicing at all. No lubrication is required, and therefore no risk exists of contaminating your product with oil or grease. The device is not easily clogged tanks to a minimum internal passage of 2 mm dia, and will continue to operate even when feed holes are partially closed. Ideally suited for aggressive environments, it operates efficiently with all detergents and chemical solutions, in both closed and open tanks because available with 360 or 180 degrees spray patterns. UBD A models find their application in pharmaceutical, chemical and food industries, where pure PTFE complies with the requirements of FDA CFR21. Models made out of Graphite-filled PTFE do not allow for the build up static electricity and can be employed in atmospheres where an explosion risk occurs.



Materials E1 PTFE pure (FDA approved) LT 95° C
 E11 PTFE + 25% graphite
 D9 PEEK (FDA approved)

Thread connection

Code	Capacity at different pressures					Spray coverage			RF BSP				Size mm	
	2,0	3,0	4,0	5,0	6,0	360	180U	180D	1/4"	3/4"	1"	1-1/2"	H	D
UBD A035 xxEG	28,6	35,0	40,5	45,2	49,5	•			•				47	30
UBD A051 xxEG	41,2	50,0	57,4	63,9	69,7	•				•			55	40
UBD A090 xxEG	73,5	90,0	104	116	127	•				•			49	40
UBD A090 xxAG	73,5	90,0	104	116	127		•			•				
UBD A090 xxBG	73,5	90,0	104	116	127			•		•			75	50
UBD A140 xxEG	114	140	162	180	198	•					•			
UBD A140 xxAG	114	140	162	180	198		•				•			
UBD A140 xxBG	114	140	162	180	198			•			•		100	70
UBD A210 xxEG	171	210	243	271	296	•						•		
UBD A210 xxAG	171	210	243	271	296		•					•		
UBD A210 xxBG	171	210	243	271	296			•				•		

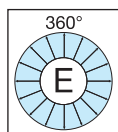


UBD S

Reaction drive mono-axial head UBD S035 B31EG is totally realized in AISI 316L stainless steel. Moreover, no lubrication is needed, therefore there is no risk of contamination with oils: this product is suitable in applications in food, pharmaceutical and chemical industries.

It has a low capacity and low angular velocity, so it is perfect for washing small and medium size tanks that require longer washing cycles. The easy and strong design, and high quality structure assure a long service and a high efficiency.

Materials B31 AISI 316L s.s.
 Connection 3/8" Female BSP
 LT 95° C



Code	Capacity at different pressures									l/min bar
	2,0	3,0	4,0	5,0	6,0	7,0	10	15	20	
UBD S035 B31EG	29	35	40	45	50	53	63	76	88	

