Rotating Tank Cleaning Nozzle RD

MC

Slightly limited rotating (with teflon bearing)

MC's rotating tank cleaning nozzle **RD** is based on the idea of reducing rotation velocity by increasing frictional resistance in comparison with ball bearings.

Teflon bearings allow for the following advantages:

1. Self-rotating tank cleaning nozzles without interference-prone ball bearings.
2. Efficient nozzle design with self-lubricating teflon bearing.
3. The teflon bearing reduces with the help of the patented, slightly limited rotation the rotation velocity, and remains optimal for a larger pressure range. The cleaning performance increases further.
4. The nozzle can be easily dismantled for cleaning or maintenance purposes. It consists of just three parts and pressed teflon bearings.
5. The nozzle rotates from just 1-2 bar in all installation settings depending on the flow rate.
6. Temperature limitations from 120°C.

MC's rotating tank cleaning nozzles **RD** are produced as modular systems, allowing for all combinations of connections, spray patterns and spray coverages.

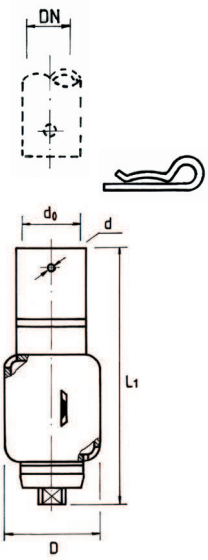
Connection possibilities

Material: Stainless steel 1.4305 or 1.4404 teflon bearing

Illu. 1

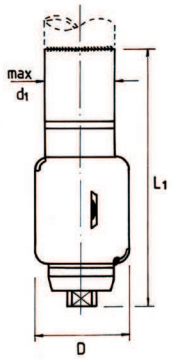
with thread connection **3/4" RD**

Illu. 2



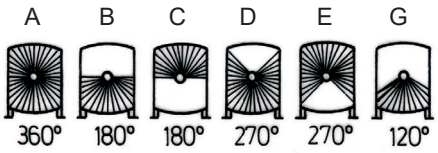
with clamp connection **DN 20 - RD**

Illu. 3



welded connection **D 26,9 S ... - RD,** pipe-Ø and wall thickness information

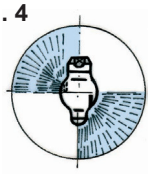
Dimensions in mm				
Type	Thread	D	L	d_2 max.
RD	1/4"	23	60	19
RD	3/8"	30	70	21
RD	1/2"	36	85	25
RD	3/4"	42	94	32
RD	1"	50	100	40
RD	1 1/2"	65	120	54



Spray coverage

Spray patterns

Illu. 4

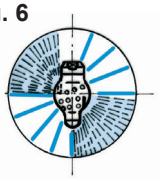


Flat fan standard variant **3/4" RD**

Illu. 5

Solid stream with high impact force **variant RD-M**

Illu. 6



Combined solid stream with high impact force and rinsing effect of flat fan **variant RD-K**

* Size 10 not possible

Size Type	Thread G	Ball-Ø	**RD/RD-M/RD-K** Flow rate V̇ (l/min.) at pressure p (bar)						Tank-Ø in m
			1	2	3	4	5	7	
10	1/4"	23	7	10	12	14	16	18	1,0
10	3/8"	30	7	10	12	14	16	18	1,0
20	3/8"	30	14	20	24	28	32	37	1,5
30	3/8"	30	21	30	37	42	47	56	2,0
45	3/8"	30	32	45	55	63	71	84	3,0

SIze Type	Thread G	Ball-Ø	**RD/RD-M/RD-K** Flow rate V̇ (l/min.) at pressure p (bar)						Tank-Ø in m
			1	2	3	4	5	7	
50	1/2"	36		50					2,0
50	3/4"	42	36	50	61	71	79	94	3,0
100	3/4"	42	71	100	122	141	158	187	4,0
200	1"	50	142	200	244	282	316	374	5,0
300	1 1/2"	65	213	300	366	423	474	561	6,0

Recommended pressure 2-4 bar