

Rotates with self-propulsion via the cleaning detergent (for more information see chapter 9)

MC has redesigned the rotating flat fan nozzles. All ball joints have been replaced by reliable teflon joints. This increases the nozzle's durability and low-maintenance character. An integrated rotation stabilizer causes the nozzle to rotate starting at 1 to 1.5 bar. It rotates slowly and uniformly, resulting in maximum force of impact.

The standardized rotation body allows for a modular system. Only the nozzle head needs to be adjusted to your requirements. A pre-filter should be installed to guarantee for permanently smooth functioning.

Advantages of rotating flat fan nozzles:

- Larger force of impact and better cleaning result than full cone nozzles
- Workpieces resp. nozzles do not need to be moved to clean surfaces/areas
- Cleaning result is even better when combining solid stream and flat fan nozzles (see RFG)

Characteristics

Type RF Teflon joint with rotation stabilizer, one flat fan nozzle, and 1 resp. 2 bores, which also aid the cleaning process and are placed at an indicated angle.

Type RFG Teflon joint rotation stabilizer, one flat fan nozzle and solid streams offset corresponding to the spray angle, with maximum force of impact, dissolving persistent dirt. The flat fan nozzles rinses off the loosened dirt particles.

Type RFR Teflon joint with rotation stabilizer, as well as 6 - 12 cleaning bores, offset in relation to one another in correspondence with the spray angle. The solid stream jet allows for a maximum force of impact.

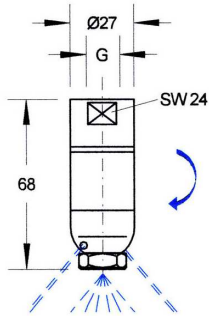
Application

Cleaning
Rinsing
Coating
Process engineering

Material

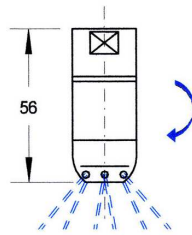
Stainless steel
1.4305 and 1.4404

Illu. 1



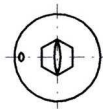
Type RF and RFG

Illu. 2



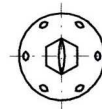
Type RFR

Illu. 3



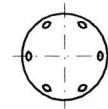
Type RF
1 flat fan nozzle with
1 or 2
solid stream jets

Illu. 4



Type RFG
6 or more
solid stream jets, offset in
relation to one another,
with maximum force of
impact,
flat fan nozzles are used
for rinsing

Illu. 5



Type RFR
6 or more
solid stream jets with
maximum force of im-
pact, offset in relation to
one another

Spray angles available: 30°-45°-60°-90°-120°, others on request

Thread 3/8" 1/2"	Size	Flow rate \dot{V} (l/min.) at pressure p (bar)								FG	Angle*
		bar 1	bar 2	bar 3	bar 4	bar 5	bar 7	bar 10			
* *	6	4.2	6.0	7.3	8.5	9.5	11.2	14.0	10	120°	
* *	9	6.3	9.0	11.0	12.7	14.2	16.8	21.0	15	120°	
* *	13	9.1	13.0	15.9	18.3	20.5	24.3	30.3	20	90°	
* *	16	11.2	16.0	19.5	22.6	25.2	29.9	37.3	25	60°	
* *	21	14.7	21.0	25.6	29.6	33.2	39.3	48.9	30	45°	
* *	25	17.5	25.0	30.5	35.3	39.5	46.7	58.3	35	45°	
* *	28	19.6	28.0	34.1	39.5	44.2	52.4	65.2	40	30°	
* *	32	22.4	32.0	39.0	45.1	50.5	59.8	74.6	45	30°	
* *	36	25.2	36.0	43.9	50.8	56.9	67.3	83.9	50	30°	
* *	40	28.0	40.0	48.8	56.4	63.2	74.8	93.2	60	30°	
* *	50	35.0	50.0	61.0	70.5	79.0	93.5	117	70	30°	
* *	60	42.0	60.0	73.2	84.6	94.8	112	140	80	30°	

* rotates beginning with this spray angle and larger

Order example:

(thread - type - size - spray angle - material) 1/2" RFG 32 - 90° - V2A

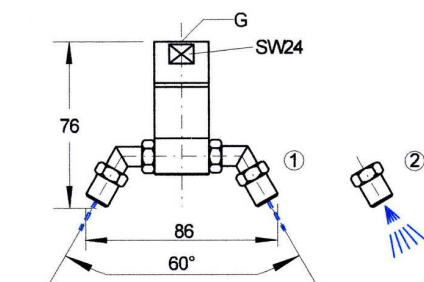
Parts are stamped with thread - type - size - spray angle - flat fan nozzle - number and Ø of bores!

Design tool for solid stream bores

Bore-Ø (mm)	Flow rate \dot{V} (l/min.) at pressure p (bar)							
	bar 1	bar 2	bar 3	bar 4	bar 5	bar 7	bar 10	
1.0	0.50	0.70	0.85	0.99	1.10	1.31	1.57	
1.5	1.07	1.50	1.83	2.12	2.37	2.81	3.36	
2.0	1.70	2.40	2.53	3.38	3.79	4.49	5.37	
2.5	2.91	4.10	5.00	5.78	6.48	7.67	11.2	
3.0	4.26	6.00	7.32	8.46	9.48	11.2	13.5	
4.0	5.80	8.40	10.2	11.8	13.3	15.7	19.7	
5.0	9.80	14.0	17.0	19.7	22.1	26.2	32.8	

Other bore-Ø on request!

Illu. 6



Other angles on request!

RF-D self-pivoting dirt cutter resp. area cleaner - max. 10 bar

1) With **smooth jet nozzles** equipped; can be used as **dirt cutter**. Parts driven by are cleaned with maximum force of impact.

2) With **flat fan nozzles** equipped; can be used as **area cleaner**. Standing parts are cleaned with maximum force of impact.

Rotation velocity is adjusted by inclining the angled nozzle holders.

Technical data correspond to table above.