

# RD MASTERJETS PC3

## 4 NOZZLE DESIGN

13.A.18 – 11/19

### RD MASTERJETS – Performance class **PC3**



Identifying feature



RD MASTERJET 1000 PC3	
Code no.	
00.00786.0333	
HP connection:	G 3/8"
	O ring
Operating pressure:	max. 1000 bar
	min. 400 bar
Flow rate:	max. 60 l/min
Leakage:	ca. 0.3 – 1.2 l/min (when new) depending on the operating pressure (max. 2.5 l/min during operation)
Length:	166 mm
Diameter:	59,3 mm
Brake:	fixed magnetic brake (fixed speed)
Sealing:	Labyrinth - 1800 bar – i/d 3.5 mm
Reaction forces:	<b>180 - 250 N → PC3</b> [see nozzle table]
Rotation speed:	approx. 1000 - 2000 min <sup>-1</sup> at 250 N reaction force
Nozzle hub:	<b>4/2 nozzles</b> <b>(2 or 4 nozzles design "P/T")</b>
Nozzle inserts:	Nozzle design "P" (sapphire), max. 1800 bar Nozzle design "T" (diamond), max. 1800 bar Thread M10 (not part of the assembly)
Plug:	01.05214.0045 (not part of the assembly)
Protective cap:	01.01894.0069
Adapter for SP 1000:	01.05320.0288 max. 1500 bar, 3/8"
Weight:	1.5 kg (without protective cap pos. 130)
Total weight:	1.6 kg

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### Nozzle design

#### RD MASTERJETS PC3 - 1000 bar

Pressure	2 nozzles design "P"	Flow rate	Reaction force
1000	2 x 1.10 mm	37 l/min	250 N
800	2 x 1.20 mm	40 l/min	240 N
600	2 x 1.40 mm	46 l/min	245 N
400	2 x 1.70 mm	56 l/min	240 N

Pressure	4 nozzles design "P"	Flow rate	Reaction force
1000	2 x 0.75 mm	38 l/min	250 N
	2 x 0.80 mm		
800	4 x 0.85 mm	40 l/min	240 N
600	4 x 1.00 mm	47 l/min	250 N
400	2 x 1.25 mm	58 l/min	250 N
	2 x 1.20 mm		



If the nozzle inserts chosen are not suitable and cause a too high rotational speed of the nozzle hub, the rotorjet may suffer irreparable damage.

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