

RD MASTERJETS PC1

6 NOZZLE DESIGN

13.A.22 – 11/19

RD MASTERJETS - Performance class **PC1**

RD MASTERJET 3200 HPS PC1		
	Code no.	Code no.
	00.00786.0327	00.00786.0332
HP connection:	M 14 x 1.5 LH	9/16" – 18 UNF LH
	(60° metallic seal cone)	
Operating pressure:	max. 3200 bar	
	min. 500 bar	
Flow rate:	max. 50 l/min	
Leakage:	approx. 0.2 - 0.6 l/min (max. 2.0 l/min during operation)	
Length:	194 mm	
Diameter:	57 mm	
Brake:	adjustable magnetic brake (variable speed)	
Sealing:	HPS - 3200 bar - i/d 3.2 mm (industrial design)	
Reaction forces:	90 - 130 N → PC1 [see nozzle table]	
Rotation speed:	approx. 1000 - 3500 min ⁻¹ at 130 N reaction force	} 3-stage adjustable via eddy current brake
	approx. 800 - 2500 min ⁻¹ at 90 N reaction force	
Nozzle hub:	6/4/3/2 nozzles (2, 3, 4 or 6 nozzles design P/T)	
Nozzle inserts:	Nozzle design "P" (sapphire), max. 3000 bar Nozzle design "T" (diamond), max. 3200 bar Thread M10 (not part of the assembly)	
Plug:	01.05214.0045 (not part of the assembly)	
Protective cap:	01.01894.0067	upon request
Spare parts kit:	00.05617.0031	00.05617.0030
Adapter for SP 1000:	01.05320.0256 max. 1000 bar, 3/8"	---
Weight:	1.0 kg (without protective cap pos. 110)	
Total weight:	1.4 kg	

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Nozzle table

RD MASTERJETS PC1 - 3200 bar

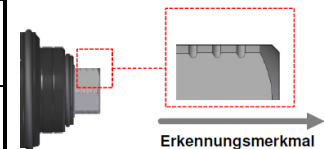
Pressure	3 nozzles design "P"	Flow rate	Reaction force
3000	3 x 0.35 mm	10 l/min	120 N
2500	3 x 0.40 mm	12 l/min	125 N
2000	3 x 0.45 mm	14 l/min	130 N
1500	3 x 0.50 mm	15 l/min	120 N

Pressure	3 nozzles design "P"	Flow rate	Reaction force
3000	3 x 0.30 mm	8 l/min	90 N
2500	3 x 0.35 mm	9 l/min	100 N
2000	3 x 0.50 mm	11 l/min	100 N
1500	3 x 0.45 mm	12 l/min	95 N

Pressure	6 nozzles design "P"	Flow rate	Reaction force
3000	6 x 0.25 mm	11 l/min	120 N
2500	3 x 0.25 mm	12 l/min	120 N
	3 x 0.30 mm		
2000	3 x 0.30 mm	14 l/min	130 N
	3 x 0.35 mm		
1500	3 x 0.35 mm	16 l/min	130 N
	3 x 0.40 mm		

Pressure	6 nozzles design "P"	Flow rate	Reaction force
3000	3 x 0.20 mm	9 l/min	95 N
	3 x 0.25 mm		
2500	6 x 0.25 mm	10 l/min	100 N
2000	3 x 0.25 mm	11 l/min	95 N
	3 x 0.30 mm		
1500	3 x 0.25 mm	13 l/min	100 N
	3 x 0.30 mm		

3200 bar
Identifying feature HPS
[3 grooves at key flat]



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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