

# RD MASTERJETS PC3

## 6 NOZZLE DESIGN

13.A.27 – 11/19

### RD MASTERJETS - Performance class **PC3**

	RD MASTERJET 1800 PC3		RD MASTERJET 3200 HPS PC3	
	Code no.	Code no.	Code no.	Code no.
	00.00786.0312	00.00786.0313	00.00786.0302	00.00786.0303
<b>HP connection:</b>	M 14 x 1.5 LH	9/16" – 18 UNF LH	M 14 x 1.5 LH	9/16" – 18 UNF LH
	(60° metallic seal cone)		(60° metallic seal cone)	
<b>Operating pressure:</b>	max. 1800 bar		max. 3200 bar	
	min. 100 bar		min. 500 bar	
<b>Flow rate:</b>	max. 60 l/min		max. 50 l/min	
<b>Leakage:</b>	approx. 0.3 - 1.2 l/min (when new) depending on the operating pressure (max. 2.5 l/min during operation)		approx. 0.2 - 0.6 l/min (when new) (max. 2.0 l/min during operation)	
<b>Length:</b>	176 mm		176 mm	
<b>Diameter:</b>	58 mm		58 mm	
<b>Brake:</b>	adjustable magnetic brake (variable speed)		adjustable magnetic brake (variable speed)	
<b>Sealing:</b>	Labyrinth - 1800 bar - i/d 3.5 mm		HPS - 3200 bar - i/d 3.2 mm (industrial design)	
<b>Reaction forces:</b>	<b>180 - 250 N → PC3</b> [see nozzle table]		<b>180 - 250 N → PC3</b> [see nozzle table]	
<b>Rotation speed:</b>	approx. 1000 - 3500 min <sup>-1</sup> at 250 N reaction force approx. 800 - 2500 min <sup>-1</sup> at 180 N reaction force		3-stage adjustable via eddy current brake	
<b>Nozzle hub:</b>	<b>6/4/3/2 nozzles</b> <b>(2, 3, 4 or 6 nozzles design P/T)</b>		<b>6/4/3/2 nozzles</b> <b>(2, 3, 4 or 6 nozzles design P/T)</b>	
<b>Nozzle inserts:</b>	Nozzle design "P" (sapphire), max. 1800 bar Nozzle design "T" (diamond), max. 1800 bar Thread M10 (not part of the assembly)		Nozzle design "P" (sapphire), max. 3000 bar Nozzle design "T" (diamond), max. 3200 bar Thread M10 (not part of the assembly)	
<b>Plug:</b>	01.05214.0045 (not part of the assembly)		01.05214.0045 (not part of the assembly)	
<b>Protective cap:</b>	upon request		01.01894.0066	
<b>Spare parts kit:</b>	00.05617.0031		00.05617.0030	
<b>Adapter for SP 1000:</b>	01.05320.0256 max. 1000 bar, 3/8"	---	01.05320.0256 max. 1000 bar, 3/8"	---
<b>Weight:</b>	1.0 kg (without protective cap pos. 110)			
<b>Total weight:</b>	1.2 kg			

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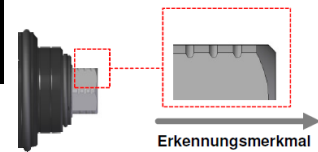
### Nozzle table

#### RD MASTERJETS PC3 - 3200 bar

Pressure	6 nozzles design "P"	Flow rate	Reaction force
3000	2 x 0.60 mm	18.5 l/min	225 N
2500	2 x 0.65 mm	19.5 l/min	220 N
2000	2 x 0.75 mm	23.5 l/min	235 N
1500	2 x 0.85 mm	26 l/min	230 N

Pressure	4 nozzles design "P"	Flow rate	Reaction force
3000	2 x 0.40 mm	19 l/min	230 N
	2 x 0.45 mm		
2500	4 x 0.45 mm	20 l/min	220 N
2000	2 x 0.50 mm	24 l/min	240 N
	2 x 0.55 mm		
1500	4 x 0.60 mm	27 l/min	230 N

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



Pressure	3/6 nozzles design "P"	Flow rate	Reaction force
3000	6 x 0.35 mm	19 l/min	230 N
2500	3 x 0.35 mm	20 l/min	220 N
	3 x 0.40 mm		
2000	3 x 0.40 mm	23 l/min	230 N
	3 x 0.45 mm		
1500	6 x 0.50 mm	27 l/min	235 N



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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