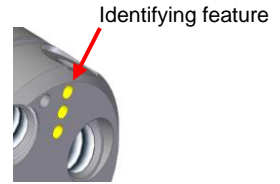


RD MASTERJETS PC3

4 NOZZLE DESIGN

13.A.15 – 11/19

RD MASTERJETS – Performance class **PC3**



	RD MASTERJET 1800 PC3		RD MASTERJET 3200 HPS PC3	
	Code no.	Code no.	Code no.	Code no.
	00.00786.0306	00.00786.0307	00.00786.0296	00.00786.0297
HP connection:	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)	
Operating pressure:	max. 1800 bar		max. 3200 bar	
	min. 100 bar		min. 500 bar	
Flow rate:	max. 60 l/min		max. 50 l/min	
Leakage:	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)	
Length:	176 mm		176 mm	
Diameter:	58 mm		58 mm	
Brake:	adjustable magnetic brake (variable speed)		adjustable magnetic brake (variable speed)	
Sealing:	Labyrinth - 1800 bar - i/d 3.5 mm		HPS - 3200 bar - i/d 3.2 mm (industrial design)	
Reaction forces:	180 - 250 N → PC3 [see nozzle table]		180 - 250 N → PC3 [see nozzle table]	
Rotation speed:	approx. 800 - 2500 min ⁻¹ at 180 N reaction force approx. 1000 - 3500 min ⁻¹ at 250 N reaction force		3-stage adjustable via eddy current brake	
Nozzle hub:	4/2 nozzles (2 or 4 nozzles design P/T)		4/2 nozzles (2 or 4 nozzles design P/T)	
Nozzle inserts:	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)	
Plug:	01.05214.0045 (not part of the assembly)		01.05214.0045 (not part of the assembly)	
Protective cap:	01.01894.0059		01.01894.0059	
Spare parts kit:	00.05617.0031		00.05617.0030	
Adapter for SP 1000:	01.05320.0256 max. 1000 bar, 3/8"	---	01.05320.0256 max. 1000 bar, 3/8"	---
Weight:	1.0 kg (without protective cap pos. 110)			
Total weight:	1.2 kg			

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RD MASTERJETS PC3

4 NOZZLE DESIGN

13.A.17 – 11/19

Nozzle table

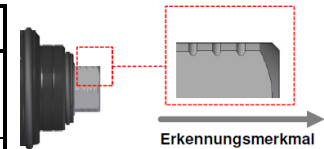
RD MASTERJETS PC3 - 3200 bar

Pressure	2 nozzles design "P"	Flow rate	Reaction force
3000	2 x 0.60 mm	19 l/min	230 N
2500	2 x 0.65 mm	20 l/min	220 N
2000	2 x 0.75 mm	24 l/min	240 N
1500	2 x 0.85 mm	27 l/min	230 N

Pressure	2 nozzles design "P"	Flow rate	Reaction force
3000	2 x 0.55 mm	16 l/min	195 N
2500	2 x 0.60 mm	18 l/min	190 N
2000	2 x 0.70 mm	21 l/min	210 N
1500	2 x 0.80 mm	24 l/min	205 N

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

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



Pressure	4 nozzles design "P"	Flow rate	Reaction force
3000	4 x 0.40 mm	17 l/min	205 N
2500	4 x 0.45 mm	20 l/min	215 N
2000	4 x 0.50 mm	22 l/min	215 N
1500	4 x 0.55 mm	23 l/min	195 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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