

## PIPE CLEANING NOZZLES - SELF SPINNING

HAMMELMANN *TURBOJETS* have a rotating nozzle body that prevents striping inside the tubes. The rotation speeds up to 20,000 r.p.m. are effected by the reaction force of the water jets emitting the nozzles.

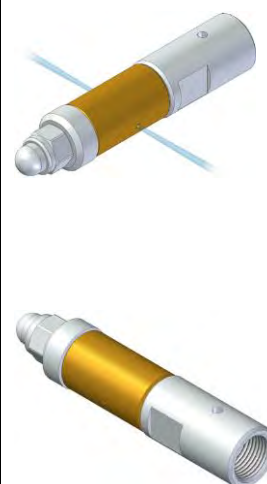
For economic reasons the layout of the above nozzles is such that, based on a 6 metre long high pressure hose, the pressure loss is max. 25 % of the operating pressure available.

More driving nozzles are available upon request, see page 14.C.4.

### 1000 BAR, POLISHER

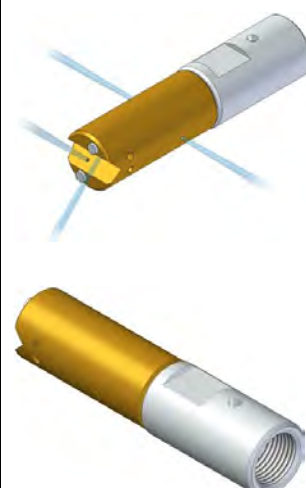
Nozzle Ø [mm]	Connection thread female	Tube Ø [mm]		Nozzles	Output at 1000 bar (incl. leakage) [l/min.]		Code no.
		min.	max.				
10	M 7	12	25	2 x Ø 0,80 radial	approx. 15	<b>b</b>	<b>04.00786.0049</b>
		15	30	2 x Ø 0,80 radial	approx. 23	<b>b</b>	<b>04.00786.0044</b>
12	G 1/8"	15	30	2 x Ø 1,00 radial	approx. 33	<b>b</b>	<b>04.00786.0015</b>
		15	30	2 x Ø 1,00 radial	approx. 33	<b>c</b>	<b>04.00786.0030*</b>
		20	40	2 x Ø 0,80 radial	approx. 36	<b>a, c</b>	<b>04.00786.0039*</b>
18	G 1/4"	20	40	2 x Ø 0,90 radial	approx. 40	<b>a, c</b>	<b>04.00786.0034*</b>
		20	40	2 x Ø 1,00 radial	approx. 44	<b>a, b</b>	<b>04.00786.0010</b>
		20	40	2 x Ø 1,00 radial	approx. 44	<b>a, c</b>	<b>04.00786.0032*</b>
		25	50	2 x Ø 0,80 radial	approx. 36	<b>a, c</b>	<b>04.00786.0038*</b>
22	G 1/4"	25	50	2 x Ø 0,90 radial	approx. 40	<b>a, c</b>	<b>04.00786.0033*</b>
		25	50	2 x Ø 1,00 radial	approx. 44	<b>a, b</b>	<b>04.00786.0026</b>
		25	50	2 x Ø 1,20 radial	approx. 61	<b>a, b</b>	<b>04.00786.0013</b>
		25	50	2 x Ø 1,20 radial	approx. 61	<b>a, c</b>	<b>04.00786.0031*</b>
		25	50	2 x Ø 1,20 radial	approx. 61	<b>a, c</b>	<b>04.00786.0031*</b>

\* reduced r.p.m.



### 1000 BAR, WITH FRONT CUTTING NOZZLES

Nozzle Ø [mm]	Connection thread female	Tube Ø [mm]		Nozzles	Output at 1000 bar (incl. leakage) [l/min.]		Code no.
		min.	max.				
12	G 1/8"	15	30	2 x Ø 0,50 axial	approx. 23	<b>b</b>	<b>04.00786.0047</b>
				2 x Ø 0,50 radial			
		15	30	2 x Ø 0,80 axial	approx. 39	<b>b</b>	<b>04.00786.0014</b>
18	G 1/4"	20	40	2 x Ø 0,80 axial	approx. 50	<b>a,b</b>	<b>04.00786.0011</b>
				2 x Ø 0,80 radial			
22	G 1/4"	25	50	2 x Ø 0,45 axial	approx. 39	<b>a,b</b>	<b>04.00786.0048</b>
				2 x Ø 0,30 radial			
		25	50	2 x Ø 0,60 axial	approx. 47	<b>a,b</b>	<b>04.00786.0025</b>
				2 x Ø 0,60 radial			
		25	50	2 x Ø 1,00 axial	approx. 72	<b>a,b</b>	<b>04.00786.0012</b>
				2 x Ø 1,00 radial			



a) with nozzle inserts      b) bronze rotor      c) stainless steel rotor