

Sapphire nozzle 030



Properties and advantages

- Long lifetime
- Constant jet quality
- High-power and focused water jet
- Needle jet with high energy density
- Easy to install and disassemble
- Swiss Quality

Applications

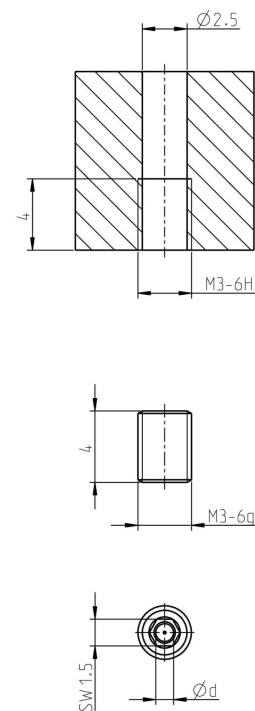
- Construction industry
- Iron, steel and metal industries
- Mechanical and apparatus engineering
- Cement and concrete industry
- Industrial cleaning
- Spray bars

Description

The Saphire nozzle type 030 for surface treatment from mvt AG is characterized by its service life, efficiency and quality. This nozzle is mainly mounted on small cleaning bars and is used in industrial cleaning. The sapphire and the nozzle body are manufactured and processed in-house. The maximum operating pressure is 1000 bar, the best way to seal the nozzle is with Loctite or Teflon tape.

The heart of the nozzle, its the sapphire that is completely manufactured by mvt AG, thus ensuring a consistent and high quality. All sapphire are checked for scratches, cracks and flow.

ART. NO. (1)
31219._ _



CHARACTERISTICS	TYPE
	030
Operating pressure (bar)	max. 1000
Operating temp. (°C)	max. 150°

Performance

ART. NO.	NOZZLE SIZE IN US GAL/MIN AT 40 PSI	NOZZLE ØD MM	PRESSURE IN PSI / BAR							
			psi 725	psi 1450	psi 2175	psi 2900	psi 3625	psi 7250	psi 10875	psi 14500
			bar 50	bar 100	bar 150	bar 200	bar 250	bar 500	bar 750	bar 1000
			FLOW RATE IN L/MIN							
31219.0100	0002	0.10	0.032	0.045	0.055	0.064	0.071	0.100	0.122	0.141
31219.0125	0003	0.125	0.050	0.071	0.086	0.100	0.111	0.157	0.191	0.220
31219.0150	0004	0.15	0.072	0.102	0.124	0.143	0.160	0.226	0.275	0.316
31219.0175	0006	0.175	0.098	0.138	0.169	0.195	0.218	0.307	0.375	0.431
31219.0200	0008	0.20	0.128	0.181	0.221	0.255	0.285	0.401	0.489	0.563
31219.0250	0012	0.25	0.200	0.282	0.345	0.399	0.445	0.627	0.764	0.879
31219.0300	0018	0.30	0.288	0.407	0.497	0.574	0.641	0.903	1.101	1.266
31219.0350	0024	0.35	0.392	0.553	0.677	0.781	0.873	1.229	1.498	1.723
31219.0400	0031	0.40	0.512	0.723	0.884	1.020	1.140	1.605	1.957	2.251
31219.0450	0040	0.45	0.647	0.915	1.119	1.291	1.442	2.031	2.477	2.848
31219.0500	0049	0.50	0.799	1.129	1.382	1.594	1.781	2.507	3.058	3.517
31219.0550	0060	0.55	0.967	1.366	1.672	1.929	2.155	3.034	3.700	4.255
31219.0600	0071	0.60	1.151	1.626	1.990	2.296	2.564	3.611	4.404	5.064
31219.0650	0083	0.65	1.351	1.908	2.335	2.694	3.010	4.238	5.168	5.943
31219.0700	0096	0.70	1.567	2.213	2.708	3.125	3.490	4.915	5.994	6.892
31219.0750	0111	0.75	1.798	2.541	3.109	3.587	4.007	5.642	6.880	7.912
31219.0800	0126	0.80	2.046	2.891	3.538	4.081	4.559	6.419	7.828	9.002
31219.0850	0142	0.85	2.310	3.264	3.994	4.607	5.146	7.247	8.838	10.163
31219.0900	0159	0.90	2.590	3.659	4.477	5.165	5.770	8.124	9.908	11.394
31219.0950	0177	0.95	2.885	4.077	4.988	5.755	6.429	9.052	11.039	12.695
31219.1000	0197	1.00	3.197	4.517	5.527	6.377	7.123	10.030	12.232	14.066

Instructions

When manually operating high pressure guns and lances the repulsive force on the axis should not exceed 250N! If the repulsive force exceeds 150N, a support / body armour is required!

	< 150 N
	< 250 N
	> 250 N