

Sapphire nozzle 131



Properties and advantages

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

Applications

- Automobile and aircraft industry
- Construction industry
- Mining
- Iron, steel and metal industries
- Glass, porcelain and ceramic industries.
- Lumber industry
- Municipal operations
- Agriculture
- safety- and bulletproof glass
- Shipbuilding

Description

The high-performance Sapphire nozzle type 131 is designed for surface treatment. The nozzle is characterized above all by its long service life, efficiency and quality. This nozzle was designed for customer-specific applications up to an operating pressure of 3000 bar.

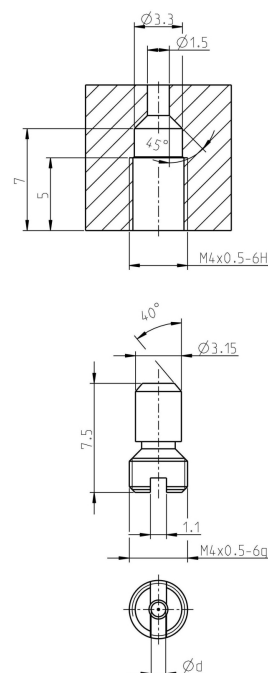
The heart of the nozzle, its the sapphire that is completely manufactured by mvt AG, thus ensuring a consistent and high quality. All sapphire are checked for scratches, cracks and flow.

This product is compatible with the following brands or products:

- Form 66

ART. NO. (1)

31189._ _



CHARACTERISTICS	TYPE
	131
Operating pressure (bar)	max. 3000
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 2900	psi 7250	psi 10875	psi 14500	psi 21750	psi 29000	psi 36250	psi 43500
			bar 200	bar 500	bar 750	bar 1000	bar 1500	bar 2000	bar 2500	bar 3000
			FLOW RATE IN L/MIN							
31189.0100	0002	0.10	0.064	0.100	0.122	0.141	0.171	0.196	0.217	0.237
31189.0125	0003	0.125	0.100	0.157	0.191	0.220	0.267	0.306	0.340	0.370
31189.0150	0004	0.15	0.143	0.226	0.275	0.316	0.385	0.441	0.489	0.532
31189.0175	0006	0.175	0.195	0.307	0.375	0.431	0.523	0.600	0.666	0.725
31189.0200	0008	0.20	0.255	0.401	0.489	0.563	0.684	0.784	0.870	0.946
31189.0250	0012	0.25	0.399	0.627	0.764	0.879	1.068	1.224	1.359	1.479
31189.0300	0018	0.30	0.574	0.903	1.101	1.266	1.538	1.763	1.957	2.130
31189.0350	0024	0.35	0.781	1.229	1.498	1.723	2.094	2.400	2.664	2.899
31189.0400	0031	0.40	1.020	1.605	1.957	2.251	2.735	3.134	3.479	3.786
31189.0450	0040	0.45	1.291	2.031	2.477	2.848	3.461	3.967	4.403	4.792
31189.0500	0049	0.50	1.594	2.507	3.058	3.517	4.273	4.897	5.436	5.916
31189.0550	0059	0.55	1.929	3.034	3.700	4.255	5.170	5.925	6.578	7.158
31189.0600	0071	0.60	2.296	3.611	4.404	5.064	6.153	7.052	7.828	8.518
31189.0650	0083	0.65	2.694	4.238	5.168	5.943	7.221	8.276	9.188	9.997
31189.0700	0096	0.70	3.125	4.915	5.994	6.892	8.375	9.598	10.655	11.595
31189.0750	0110	0.75	3.587	5.642	6.880	7.912	9.614	11.018	12.232	13.310
31189.0800	0125	0.80	4.081	6.419	7.828	9.002	10.939	12.536	13.917	15.144
31189.0850	0142	0.85	4.607	7.247	8.838	10.163	12.349	14.152	15.711	17.096
31189.0900	0159	0.90	5.165	8.124	9.908	11.394	13.844	15.866	17.614	19.166
31189.0950	0177	0.95	5.755	9.052	11.039	12.695	15.425	17.678	19.625	21.355
31189.1000	0196	1.00	6.377	10.030	12.232	14.066	17.091	19.588	21.746	23.662

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