

Sapphire nozzle 046



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

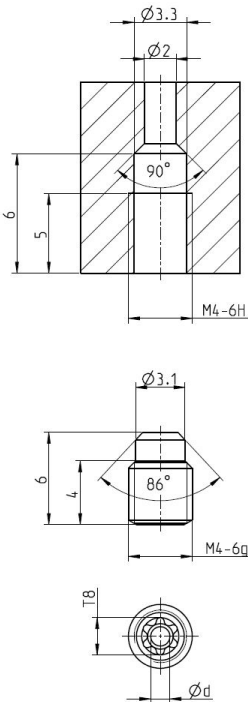
- Construction industry
- Iron, steel and metal industries
- Mechanical and apparatus engineering
- Cement and concrete industry
- Industrial cleaning
- Spray bars

Description

The Sapphire nozzle type 046 can be used up to an operating pressure of 3000 bar. Our customers use this nozzle mainly on cleaning bars or spray bars, this nozzle is used in industrial cleaning or on marking removal machines. The sapphire and the nozzle body are manufactured and processed in-house. The nozzle seals on the cone and has a sealing angle of 86°.

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)
32074._ _



CHARACTERISTICS	TYPE
	046
Operating pressure (bar)	max. 3000
Operating temp. (°C)	max. 150°
Tightening torque (Nm)	max. 2

Performance

ART. NO.	NOZZLE SIZE IN US GAL/MIN AT 40 PSI	NOZZLE ØD MM	PRESSURE IN PSI / BAR							
			psi 2900	psi 4350	psi 10875	psi 14500	psi 21750	psi 29000	psi 36250	psi 43500
			bar 200	bar 300	bar 750	bar 1000	bar 1500	bar 2000	bar 2500	bar 3000
			FLOW RATE IN L/MIN							
32074.0100	0002	0.10	0.064	0.078	0.122	0.141	0.171	0.196	0.217	0.237
32074.0125	0003	0.125	0.100	0.122	0.191	0.220	0.267	0.306	0.340	0.370
32074.0150	0004	0.15	0.143	0.175	0.275	0.316	0.385	0.441	0.489	0.532
32074.0175	0006	0.175	0.195	0.239	0.375	0.431	0.523	0.600	0.666	0.725
32074.0200	0008	0.20	0.255	0.312	0.489	0.563	0.684	0.784	0.870	0.946
32074.0250	0012	0.25	0.399	0.487	0.764	0.879	1.068	1.224	1.359	1.479
32074.0300	0018	0.30	0.574	0.702	1.101	1.266	1.538	1.763	1.957	2.130
32074.0350	0024	0.35	0.781	0.955	1.498	1.723	2.094	2.400	2.664	2.899
32074.0400	0031	0.40	1.020	1.247	1.957	2.251	2.735	3.134	3.479	3.786
32074.0450	0040	0.45	1.291	1.579	2.477	2.848	3.461	3.967	4.403	4.792
32074.0500	0049	0.50	1.594	1.949	3.058	3.517	4.273	4.897	5.436	5.916
32074.0550	0059	0.55	1.929	2.358	3.700	4.255	5.170	5.925	6.578	7.158
32074.0600	0071	0.60	2.296	2.807	4.404	5.064	6.153	7.052	7.828	8.518
32074.0650	0083	0.65	2.694	3.294	5.168	5.943	7.221	8.276	9.188	9.997
32074.0700	0096	0.70	3.125	3.820	5.994	6.892	8.375	9.598	10.655	11.595
32074.0750	0110	0.75	3.587	4.385	6.880	7.912	9.614	11.018	12.232	13.310
32074.0800	0125	0.80	4.081	4.990	7.828	9.002	10.939	12.536	13.917	15.144
32074.0850	0142	0.85	4.607	5.633	8.838	10.163	12.349	14.152	15.711	17.096
32074.0900	0159	0.90	5.165	6.315	9.908	11.394	13.844	15.866	17.614	19.166
32074.0950	0177	0.95	5.755	7.036	11.039	12.695	15.425	17.678	19.625	21.355
32074.1000	0196	1.00	6.377	7.796	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