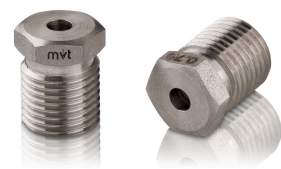


Sapphire nozzle 084



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

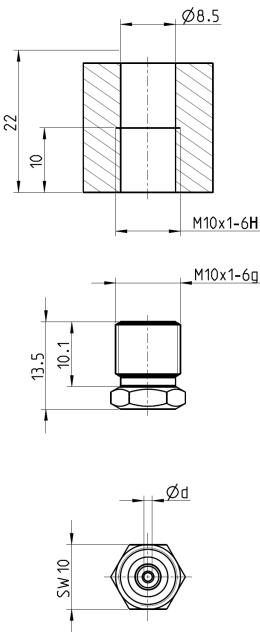
Description

The mvt high-performance sapphire nozzle type 084 for surface treatment is characterised by its service life, efficiency and quality. Due to the external shapes, the nozzle can be installed in all customer-specific systems on the market.

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)

31197._ _



CHARACTERISTICS	TYPE
	084
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							
31197.0100	0002	0.10	0.032	0.045	0.055	0.064	0.071	0.100	0.122	0.141
31197.0125	0003	0.125	0.050	0.071	0.086	0.100	0.111	0.157	0.191	0.220
31197.0150	0004	0.15	0.072	0.102	0.124	0.143	0.160	0.226	0.275	0.316
31197.0175	0006	0.175	0.098	0.138	0.169	0.195	0.218	0.307	0.375	0.431
31197.0200	0008	0.20	0.128	0.181	0.221	0.255	0.285	0.401	0.489	0.563
31197.0250	0012	0.25	0.200	0.282	0.345	0.399	0.445	0.627	0.764	0.879
31197.0300	0018	0.30	0.288	0.407	0.497	0.574	0.641	0.903	1.101	1.266
31197.0350	0025	0.35	0.403	0.570	0.697	0.804	0.898	1.265	1.542	1.774
31197.0400	0033	0.40	0.527	0.744	0.910	1.050	1.173	1.652	2.015	2.317
31197.0450	0041	0.45	0.666	0.942	1.152	1.329	1.485	2.091	2.550	2.932
31197.0500	0051	0.50	0.823	1.162	1.422	1.641	1.833	2.581	3.148	3.620
31197.0550	0061	0.55	0.996	1.407	1.721	1.986	2.218	3.123	3.809	4.380
31197.0600	0073	0.60	1.185	1.674	2.048	2.363	2.640	3.717	4.533	5.213
31197.0650	0086	0.65	1.390	1.965	2.404	2.773	3.098	4.362	5.320	6.118
31197.0700	0099	0.70	1.613	2.278	2.788	3.217	3.593	5.059	6.170	7.095
31197.0750	0114	0.75	1.851	2.616	3.201	3.692	4.125	5.808	7.083	8.145
31197.0800	0131	0.80	2.136	3.018	3.694	4.261	4.760	6.702	8.174	9.399
31197.0850	0148	0.85	2.412	3.408	4.170	4.810	5.374	7.566	9.228	10.611
31197.0900	0166	0.90	2.704	3.820	4.675	5.393	6.024	8.483	10.345	11.896
31197.0950	0188	0.95	3.055	4.317	5.282	6.094	6.807	9.584	11.689	13.441
31197.1000	0208	1.00	3.385	4.783	5.853	6.752	7.542	10.620	12.952	14.894
31197.1100	0252	1.10	4.096	5.787	7.082	8.170	9.126	12.850	15.671	18.021
31197.1200	0300	1.20	4.874	6.887	8.428	9.723	10.861	15.293	18.650	21.447
31197.1300	0352	1.30	5.721	8.083	9.891	11.411	12.746	17.947	21.888	25.170
31197.1400	0408	1.40	6.635	9.374	11.471	13.234	14.783	20.815	25.385	29.191
31197.1500	0468	1.50	7.616	10.761	13.168	15.192	16.970	23.895	29.141	33.510
31197.1600	0540	1.60	8.786	12.414	15.190	17.525	19.576	27.564	33.616	38.657
31197.1700	0610	1.70	9.919	14.014	17.149	19.784	22.100	31.118	37.950	43.640
31197.1800	0684	1.80	11.120	15.712	19.225	22.180	24.776	34.886	42.546	48.925
31197.1900	0762	1.90	12.390	17.506	21.421	24.713	27.605	38.870	47.404	54.512
31197.2000	0868	2.00	14.104	19.928	24.385	28.133	31.426	44.249	53.965	62.056
31197.2100	0982	2.10	15.965	22.557	27.602	31.844	35.571	50.086	61.083	70.242
31197.2200	1106	2.20	17.976	25.399	31.080	35.856	40.053	56.397	68.780	79.093
31197.2300	1209	2.30	19.648	27.761	33.970	39.190	43.777	61.641	75.175	86.447
31197.2400	1316	2.40	21.393	30.227	36.988	42.672	47.666	67.117	81.854	94.127
31197.2500	1428	2.50	23.213	32.799	40.134	46.302	51.721	72.827	88.817	102.135
31197.2600	1545	2.60	25.107	35.475	43.409	50.080	55.942	78.770	96.064	110.469
31197.2700	1666	2.70	27.076	38.257	46.813	54.007	60.328	84.945	103.596	119.130
31197.2800	1791	2.80	29.119	41.143	50.345	58.081	64.879	91.354	111.412	128.118
31197.2900	1922	2.90	31.236	44.134	54.005	62.304	69.596	97.996	119.512	137.432
31197.3000	2056	3.00	33.427	47.230	57.793	66.675	74.479	104.871	127.896	147.074

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