

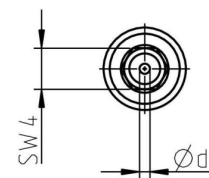
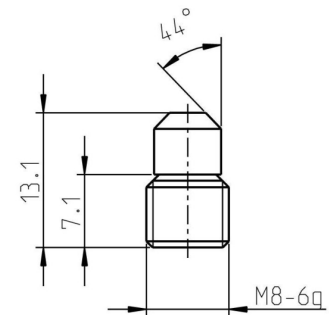
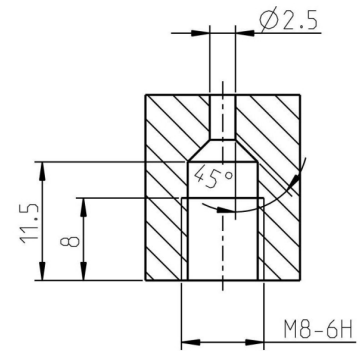
— Sapphire screw-in nozzles

Sapphire screw-in nozzle 086

The Saphir screw-in nozzle type 086 can be approved for an operating pressure of 1500 bar with the optional brass seal. This nozzle is used in industrial cleaning or in the demarking industry. The nozzle is cone-sealing in conjunction with the seals and has a sealing angle of 44°. The heart of the nozzle, the nozzle stone, is manufactured entirely at mvt AG, thus ensuring consistent and high quality. All nozzle stones are checked for scratches, cracks and flow.

Features and advantages

- Long service life
- Constant jet quality
- Highly concentrated water jet
- Point jet with high energy density
- Easy installation and removal
- Swiss quality



Applications

MVT AG is a Swiss supplier of high-quality and precise components and systems for the industrial sector.

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

ART. NO. (1)

31915._ _

Specifications



Operating pressure (bar)
max.

1500



Operating temperature (°C)
max.

150



Tightening torque (Nm)
max. 17

ART. NO.	NOZZLE SIZE in US Gal/min at 40 psi	NOZZLES Ød mm	PRESSURE in psi / bar					
			psi2900	psi7250	psi10875	psi14500	psi18125	psi21750
			bar200	bar500	bar750	bar1000	bar1250	bar1500
			FLOW RATE in l/min					
31915.0100	0002	0.10	0.064	0.100	0.122	0.141	0.157	0.171
31915.0125	0003	0.125	0.100	0.157	0.191	0.220	0.245	0.267
31915.0150	0004	0.15	0.143	0.226	0.275	0.316	0.352	0.385
31915.0175	0006	0.175	0.195	0.307	0.375	0.431	0.480	0.523
31915.0200	0008	0.20	0.255	0.401	0.489	0.563	0.627	0.684
31915.0250	0012	0.25	0.399	0.627	0.764	0.879	0.979	1.068
31915.0300	0018	0.30	0.574	0.903	1.101	1.266	1.410	1.538
31915.0350	0024	0.35	0.781	1.229	1.498	1.723	1.919	2.094
31915.0400	0031	0.40	1.020	1.605	1.957	2.251	2.506	2.735
31915.0450	0040	0.45	1.291	2.031	2.477	2.848	3.172	3.461
31915.0500	0049	0.50	1.594	2.507	3.058	3.517	3.916	4.273
31915.0550	0059	0.55	1.929	3.034	3.700	4.255	4.738	5.170
31915.0600	0071	0.60	2.296	3.611	4.404	5.064	5.639	6.153
31915.0650	0083	0.65	2.694	4.238	5.168	5.943	6.618	7.221
31915.0700	0096	0.70	3.125	4.915	5.994	6.892	7.675	8.375

ART. NO.	NOZZLE SIZE in US Gal/min at 40 psi	NOZZLES Ød mm	PRESSURE in psi / bar					
			psi2900	psi7250	psi10875	psi14500	psi18125	psi21750
			bar200	bar500	bar750	bar1000	bar1250	bar1500
			FLOW RATE in l/min					
31915.0750	0110	0.75	3.587	5.642	6.880	7.912	8.811	9.614
31915.0800	0125	0.80	4.081	6.419	7.828	9.002	10.025	10.939
31915.0850	0142	0.85	4.607	7.247	8.838	10.163	11.317	12.349
31915.0900	0159	0.90	5.165	8.124	9.908	11.394	12.687	13.844
31915.0950	0177	0.95	5.755	9.052	11.039	12.695	14.136	15.425
31915.1000	0196	1.00	6.377	10.030	12.232	14.066	15.663	17.091

Instruction

When using high-pressure spray guns and lances manually, the recoil force to be absorbed in the longitudinal axis of the spraying device must not exceed 250N! If the recoil force exceeds 150N, a body support must be used!



Gasket available separately

Art. No.	Material	Max. pressure (bar)
12556	brass	1500

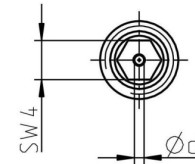
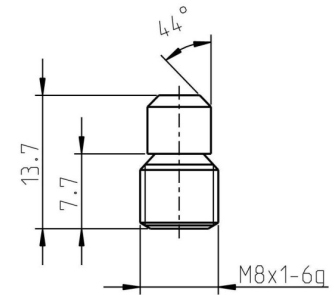
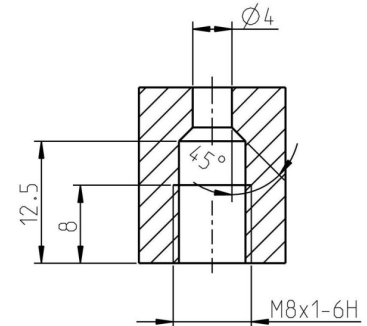
— Sapphire screw-in nozzles

Sapphire screw-in nozzle 082

The mvt sapphire screw-in nozzle type 082 for surface treatment is characterized by its service life, efficiency and quality. Thanks to its external shape, the nozzle can be installed in all customer-specific systems on the market. The heart of the nozzle, the nozzle stone, is completely manufactured at mvt AG, thus ensuring consistent and high quality. All nozzle stones are checked for scratches, cracks and flow.

Features and advantages

- Long service life
- Constant jet quality
- Highly concentrated water jet
- Point jet with high energy density
- Easy installation and removal
- Swiss quality



Applications

MVT AG is a Swiss supplier of high-quality and precise components and systems for the industrial sector.

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

ART. NO. (1)

31204._ _

Specifications



Operating pressure (bar)
max.

2000



Operating temperature (°C)
max.

150



Tightening torque (Nm)

max. 17

ART. NO.	NOZZ LE SIZE in US Gal/ min at 40 psi	NOZZ LES Ød mm	PRESSURE in psi / bar									
			psi14 50	psi29 00	psi43 50	psi58 00	psi72 50	psi10 875	psi14 500	psi21 750	psi25 375	psi29 000
			bar10 0	bar20 0	bar30 0	bar40 0	bar50 0	bar75 0	bar10 00	bar15 00	bar17 50	bar20 00
			FLOW RATE in l/min									
31200.010 0	0002	0.10	0.045	0.064	0.078	0.090	0.100	0.122	0.141	0.171	0.184	0.196
31200.012 5	0003	0.125	0.071	0.100	0.122	0.140	0.157	0.191	0.220	0.267	0.287	0.306
31200.015 0	0004	0.15	0.102	0.143	0.175	0.202	0.226	0.275	0.316	0.385	0.414	0.441
31200.017 5	0006	0.175	0.138	0.195	0.239	0.275	0.307	0.375	0.431	0.523	0.563	0.600
31200.020 0	0008	0.20	0.181	0.255	0.312	0.359	0.401	0.489	0.563	0.684	0.736	0.784
31200.025 0	0012	0.25	0.282	0.399	0.487	0.562	0.627	0.764	0.879	1.068	1.149	1.224
31200.030 0	0018	0.30	0.407	0.574	0.702	0.809	0.903	1.101	1.266	1.538	1.655	1.763
31200.035 0	0024	0.35	0.553	0.781	0.955	1.101	1.229	1.498	1.723	2.094	2.253	2.400
31200.040 0	0031	0.40	0.723	1.020	1.247	1.438	1.605	1.957	2.251	2.735	2.943	3.134
31200.045 0	0040	0.45	0.915	1.291	1.579	1.820	2.031	2.477	2.848	3.461	3.724	3.967
31200.050 0	0049	0.50	1.129	1.594	1.949	2.247	2.507	3.058	3.517	4.273	4.598	4.897
31200.055 0	0059	0.55	1.366	1.929	2.358	2.718	3.034	3.700	4.255	5.170	5.563	5.925
31200.060 0	0071	0.60	1.626	2.296	2.807	3.235	3.611	4.404	5.064	6.153	6.621	7.052
31200.065 0	0083	0.65	1.908	2.694	3.294	3.797	4.238	5.168	5.943	7.221	7.770	8.276
31200.070 0	0096	0.70	2.213	3.125	3.820	4.403	4.915	5.994	6.892	8.375	9.012	9.598

ART. NO.	NOZZ LE SIZE in US Gal/ min at 40 psi	NOZZ LES Ød mm	PRESSURE in psi / bar									
			psi14 50	psi29 00	psi43 50	psi58 00	psi72 50	psi10 875	psi14 500	psi21 750	psi25 375	psi29 000
			bar10 0	bar20 0	bar30 0	bar40 0	bar50 0	bar75 0	bar10 00	bar15 00	bar17 50	bar20 00
			FLOW RATE in l/min									
31200.075 0	0111	0.75	2.541	3.587	4.385	5.055	5.642	6.880	7.912	9.614	10.345	11.018
31200.080 0	0126	0.80	2.891	4.081	4.990	5.751	6.419	7.828	9.002	10.939	11.770	12.536
31200.085 0	0142	0.85	3.264	4.607	5.633	6.493	7.247	8.838	10.163	12.349	13.287	14.152
31200.090 0	0159	0.90	3.659	5.165	6.315	7.279	8.124	9.908	11.394	13.844	14.897	15.866
31200.095 0	0177	0.95	4.077	5.755	7.036	8.110	9.052	11.039	12.695	15.425	16.598	17.678
31200.100 0	0196	1.00	4.517	6.377	7.796	8.986	10.030	12.232	14.066	17.091	18.391	19.588
31200.110 0	0238	1.10	5.466	7.716	9.433	10.874	12.136	14.801	17.020	20.681	22.253	23.702
31200.120 0	0283	1.20	6.505	9.183	11.226	12.941	14.443	17.614	20.255	24.612	26.483	28.207
31200.130 0	0332	1.30	7.634	10.777	13.175	15.187	16.950	20.672	23.772	28.885	31.081	33.104
31200.140 0	0385	1.40	8.854	12.498	15.280	17.613	19.658	23.975	27.570	33.499	36.046	38.393
31200.150 0	0442	1.50	10.164	14.348	17.541	20.220	22.567	27.522	31.649	38.456	41.380	44.073
31200.160 0	0503	1.60	11.564	16.325	19.958	23.005	25.676	31.314	36.009	43.754	47.081	50.146
31200.170 0	0568	1.70	13.054	18.429	22.531	25.971	28.986	35.350	40.651	49.394	53.150	56.610
31200.180 0	0637	1.80	14.635	20.661	25.259	29.116	32.497	39.632	45.574	55.376	59.587	63.466
31200.190 0	0709	1.90	16.307	23.020	28.144	32.441	36.208	44.158	50.779	61.700	66.391	70.713
31200.200 0	0786	2.00	18.068	25.507	31.185	35.946	40.119	48.928	56.265	68.366	73.564	78.353
31200.210 0	0866	2.10	19.920	28.122	34.381	39.630	44.232	53.943	62.032	75.373	81.104	86.384
31200.220 0	0951	2.20	21.863	30.864	37.733	43.495	48.544	59.203	68.080	82.723	89.012	94.807
31200.230 0	1040	2.30	23.896	33.733	41.242	47.538	53.058	64.707	74.410	90.414	97.288	103.621
	1132	2.40	26.019	36.730	44.906	51.762	57.772	70.456	81.021	98.447	105.932	112.828

ART. NO.	NOZZ LE SIZE in US Gal/ min at 40 psi	NOZZ LES Ød mm	PRESSURE in psi / bar									
			psi14 50	psi29 00	psi43 50	psi58 00	psi72 50	psi10 875	psi14 500	psi21 750	psi25 375	psi29 000
			bar10 0	bar20 0	bar30 0	bar40 0	bar50 0	bar75 0	bar10 00	bar15 00	bar17 50	bar20 00
			FLOW RATE in l/min									
31200.240 0												
31200.250 0	1228	2.50	28.232	39.855	48.726	56.165	62.686	76.450	87.913	106.822	114.943	122.426
31200.260 0	1328	2.60	30.536	43.107	52.702	60.749	67.802	82.688	95.087	115.538	124.322	132.416
31200.270 0	1432	2.70	32.930	46.487	56.834	65.511	73.117	89.171	102.542	124.597	134.070	142.798
31200.280 0	1540	2.80	35.414	49.994	61.122	70.454	78.634	95.899	110.278	133.997	144.185	153.571
31200.290 0	1653	2.90	37.989	53.629	65.565	75.576	84.351	102.871	118.296	143.739	154.667	164.737
31200.300 0	1768	3.00	40.654	57.391	70.165	80.878	90.268	110.088	126.595	153.823	165.518	176.294

Instruction

	< 150 N
	< 250 N
	> 250 N

When using high-pressure spray guns and lances manually, the recoil force to be absorbed in the longitudinal axis of the spraying device must not exceed 250N! If the recoil force exceeds 150N, a body support must be used!