

Sapphire nozzle 086



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

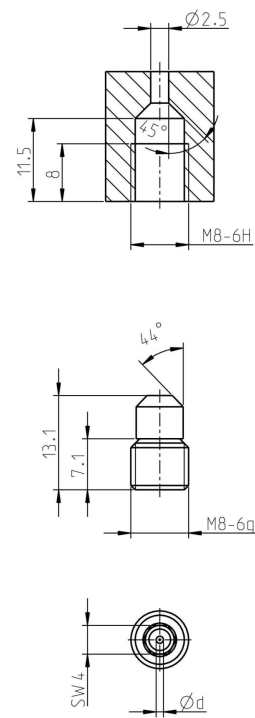
- Construction industry
- Iron, steel and metal industries
- Mechanical and apparatus engineering
- Cement and concrete industry
- Industrial cleaning
- Spray bars

Description

The screw-in nozzle type 086 can be approved with the optional brass seal with an operating pressure of 1500 bar. This nozzle is used in industrial cleaning or in the marking removal industry. The sapphire and the nozzle body are manufactured and processed in-house. The nozzle is its sealed on the cone and has a sealing angle of 44°.

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)
31915._ _



CHARACTERISTICS	TYPE
	086
Operating pressure (bar)	max. 1500
Operating temp. (°C)	max. 150°
Tightening torque (Nm)	max. 17

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 18125	psi 21750
			bar 200	bar 500	bar 750	bar 1000	bar 1250	bar 1500
			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
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

Gasket Sold Separately

ART. NO.	MATERIAL	MAX. PRESSURE (BAR)
12556	Brass	1500

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