

Sapphire nozzle 277



Properties and advantages

- Long lifetime
- Constant jet quality
- Accurate cutting accuracy
- Narrow cutting width
- High cutting performance
- Swiss Quality

Applications

- Pure water:** paper, cardboard, corrugated cardboard, wood, plastics, food, bakery product, frozen foods, meat, fish, composite materials, vehicle parts such as carpets, door panels, shock absorbers, dashboards, instrument panels, rear window shelves, etc.
- Abrasive:** metal, titanium, Aluminium, stone, marble, granite, ceramic, reinforced concrete, cement, mineral wool, composite materials, vehicle and aircraft parts, etc.

Description

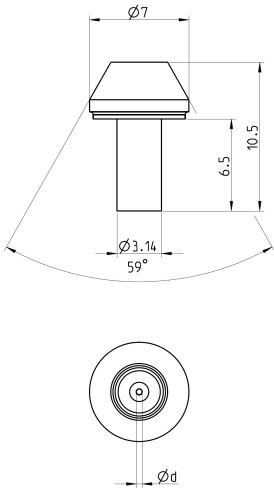
The sapphire nozzle type 277 can be used as a pure water cutting nozzle or as an abrasive cutting nozzle. The nozzle has a sealing angle of 59°.

- R = Pure water jet cutting nozzles, aiming accuracy 100% tested
- RX = Pure water jet cutting nozzles, aiming accuracy not tested

ART. NO. (1)	ARTICLE	DESCRIPTION
35029_ _	Pure water	R / RX

Test of the aiming accuracy

- The distance from the nozzle to the target mark is 100 mm.
- The test pressure is 50 bar.
- Testing of the aiming accuracy is only carried out if requested by the customer.



CHARACTERISTICS	TYPE
	277
Operating pressure (bar)	max. 4000
Operating temp. (°C)	max. 150°

Performance

ART. NO.	NOZZLE ØD MM	PRESSURE IN PSI / BAR			
		psi 36250	psi 43500	psi 50750	psi 58000
		bar 2500	bar 3000	bar 3500	bar 4000
		FLOW RATE IN L/MIN			
35029.0080	0.08	0.129	0.140	0.151	0.160
35029.0100	0.10	0.201	0.219	0.235	0.250
35029.0125	0.125	0.315	0.343	0.368	0.391
35029.0150	0.15	0.453	0.493	0.529	0.563
35029.0175	0.175	0.617	0.671	0.721	0.766
35029.0200	0.20	0.806	0.877	0.941	1.000
35029.0250	0.25	1.259	1.370	1.471	1.563
35029.0275	0.275	1.524	1.658	1.779	1.891
35029.0300	0.30	1.813	1.973	2.118	2.250
35029.0350	0.35	2.468	2.685	2.882	3.063
35029.0400	0.40	3.223	3.508	3.765	4.001
35029.0450	0.45	4.080	4.439	4.765	5.064
35029.0500	0.50	5.037	5.481	5.882	6.251
35029.0550	0.55	6.094	6.632	7.118	7.564
35029.0600	0.60	7.253	7.892	8.471	9.002
35029.0650	0.65	8.512	9.262	9.941	10.565
35029.0700	0.70	9.872	10.742	11.530	12.253
35029.0750	0.75	11.333	12.331	13.236	14.066
35029.0800	0.80	12.894	14.030	15.059	16.004
35029.0850	0.85	14.556	15.839	17.000	18.067
35029.0900	0.90	16.319	17.757	19.059	20.254
35029.0950	0.95	18.182	19.785	21.236	22.568
35029.1000	1.00	20.147	21.922	23.530	25.006