

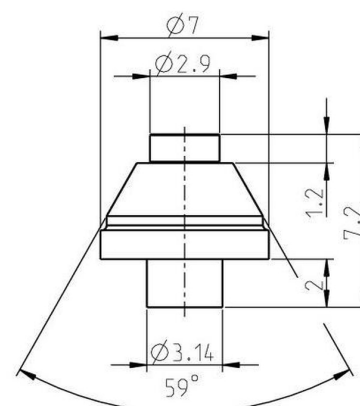
Sapphire nozzle 1258

The sapphire nozzle type 1258 can be used as a pure water or abrasive cutting nozzle. The nozzle has a sealing angle of 59°.

Only while stocks last - prices and availability on request.

Features and advantages

- Long service life
- Constant jet quality
- Precise cutting accuracy
- Small cutting width
- High cutting performance
- Swiss Quality



Applications

Clean water: Paper, cardboard, corrugated cardboard, wood, plastics, food, baked goods, frozen food, meat, fish, composite materials, vehicle parts such as carpets, door panels, bumpers, dashboards, instrument panels, parcel shelves, etc.

Abrasive: Metal, titanium, aluminum, stone, marble, granite, ceramics, reinforced concrete, plaster, rock wool, laminated, safety and bulletproof glass, wood, plastics, composite materials, vehicle and aircraft parts, etc.

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

A = Abrasive cutting nozzles, accuracy 100% tested AX = Abrasive cutting nozzles, accuracy not tested

EXECUTION	ARTICLE	DESCRIPTION
Pure water	31008._ _	R / RX
Abrasive	31009._ _	A / AX

Examination

- The distance between the nozzle and the target mark is 100 mm.
- The test pressure is 50 bar.
- The 100% test is carried out at the customer's request.

Specifications



**Operating pressure (bar)
max.**

4000



**Operating temperature (°C)
max.**

150

ART. NO.	NOZZLES Ød mm	Designation	PRESSURE in psi / bar			
			psi36250	psi43500	psi50750	psi58000
			bar2500	bar3000	bar3500	bar4000
FLOW RATE in l/min						
31008.0080_R	0.08	R	0.129	0.140	0.151	0.160
31008.0080_RX	0.08	RX	0.129	0.140	0.151	0.160
31008.0100_R	0.10	R	0.201	0.219	0.235	0.250
31008.0100_RX	0.10	RX	0.201	0.219	0.235	0.250
31008.0125_R	0.125	R	0.315	0.343	0.368	0.391
31008.0125_RX	0.125	RX	0.315	0.343	0.368	0.391
31008.0150_R	0.15	R	0.453	0.493	0.529	0.563
31008.0150_RX	0.15	RX	0.453	0.493	0.529	0.563
31008.0175_R	0.175	R	0.617	0.671	0.721	0.766
31008.0175_RX	0.175	RX	0.617	0.671	0.721	0.766
31008.0200_R	0.20	R	0.806	0.877	0.941	1.000
31008.0200_RX	0.20	RX	0.806	0.877	0.941	1.000
31008.0250_R	0.25	R	1.259	1.370	1.471	1.563
31008.0250_RX	0.25	RX	1.259	1.370	1.471	1.563
31008.0275_R	0.275	R	1.524	1.658	1.779	1.891
31008.0275_RX	0.275	RX	1.524	1.658	1.779	1.891
31008.0300_R	0.30	R	1.813	1.973	2.118	2.250
31008.0300_RX	0.30	RX	1.813	1.973	2.118	2.250
31008.0350_R	0.35	R	2.468	2.685	2.882	3.063
31008.0350_RX	0.35	RX	2.468	2.685	2.882	3.063
31008.0400_R	0.40	R	3.223	3.508	3.765	4.001
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31008.0500_R	0.50	R	5.037	5.481	5.882	6.251
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31008.0550_R	0.55	R	6.094	6.632	7.118	7.564
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31008.0600_R	0.60	R	7.253	7.892	8.471	9.002
31008.0600_RX	0.60	RX	7.253	7.892	8.471	9.002
31008.0650_R	0.65	R	8.512	9.262	9.941	10.565
31008.0650_RX	0.65	RX	8.512	9.262	9.941	10.565
31008.0700_R	0.70	R	9.872	10.742	11.530	12.253
31008.0700_RX	0.70	RX	9.872	10.742	11.530	12.253
31008.0750_R	0.75	R	11.333	12.331	13.236	14.066
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31008.0800_R	0.80	R	12.894	14.030	15.059	16.004
31008.0800_RX	0.80	RX	12.894	14.030	15.059	16.004
31008.0850_R	0.85	R	14.556	15.839	17.000	18.067
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31008.0900_R	0.90	R	16.319	17.757	19.059	20.254
31008.0900_RX	0.90	RX	16.319	17.757	19.059	20.254
31008.0950_R	0.95	R	18.182	19.785	21.236	22.568
31008.0950_RX	0.95	RX	18.182	19.785	21.236	22.568
31008.1000_R	1.00	R	20.147	21.922	23.530	25.006
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31009.0080_A	0.08	A	0.129	0.140	0.151	0.160
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FAQ

1. What is the sapphire nozzle 1258 used for?

The sapphire nozzle type 1258 is **multifunctional** and can be used both as a **pure waternozzle** and as an **abrasive cutting nozzle**.

- Clean water: paper, cardboard, wood, plastics, food, vehicle parts, composite materials.
- Abrasive: metal, titanium, aluminum, stone, ceramics, concrete, glass, wood, plastics, aircraft parts.

It is suitable for a wide range of **testing, cutting and machining applications**.

2. What are the advantages of the 1258 sapphire nozzle?

- **Long service life** thanks to high-quality sapphire insert
- **Consistent beam quality** for precise results
- **Very precise cutting accuracy** for all materials
- **High cutting performance** with small cutting widths
- **Swiss quality** - reliable and durable

These properties make them ideal for industrial applications.

3. What versions and tests are available?

The nozzle is available in four versions:

- **R**: Pure water, accuracy 100% tested
- **RX**: Pure water, accuracy not tested
- **A**: Abrasive, target accuracy 100% tested
- **AX**: Abrasive, accuracy not tested

This allows the nozzle to be **optimally** adapted **to your requirements**.

4. What are the technical specifications of the nozzle?

- **Max. Operating pressure:** 4000 bar
- **Max. Operating temperature:** 150 °C
- **Nozzle sizes & flow rate:** 0.08 mm to 1.00 mm, flow rate 0.129 to 25.006 l/min
- **Sealing angle:** 59°

This makes it suitable for precise cutting and processing of a wide range of materials.

5. How is the nozzle inserted correctly?

- Select pure water or abrasive operation according to the material
- Before each use, check whether the **aiming accuracy** is relevant
- When working with high-pressure spray guns, ensure that the **recoil force does not exceed 250 N**
- **Use a body support** for recoil >150 N

Correct handling guarantees **safety and a long service life** for the nozzle.