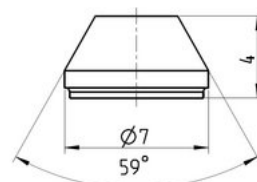


Sapphire nozzle 259

The sapphire nozzle type 259 can be used as a pure water or abrasive cutting nozzle. The nozzle has a sealing angle of 59° and no neck-
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, target accuracy 100% tested
AX = Abrasive cutting nozzles, target accuracy not tested

EXECUTION	ARTICLE	DESCRIPTION
Pure water	31052._ _	R / RX
Abrasive	31053._ _	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

			DRUCK in psi / bar			
ART. NR.	DÜSEN Ød mm	Bezeichnung	psi36250	psi43500	psi50750	psi58000
			bar2500	bar3000	bar3500	bar4000
DURCHFLUSSMENGE in l/min						
31052.0080_R	0.08	R	0.129	0.140	0.151	0.160
31052.0080_RX	0.08	RX	0.129	0.140	0.151	0.160
31052.0100_R	0.10	R	0.201	0.219	0.235	0.250
31052.0100_RX	0.10	RX	0.201	0.219	0.235	0.250
31052.0125_R	0.125	R	0.315	0.343	0.368	0.391
31052.0125_RX	0.125	RX	0.315	0.343	0.368	0.391
31052.0150_R	0.15	R	0.453	0.493	0.529	0.563
31052.0150_RX	0.15	RX	0.453	0.493	0.529	0.563
31052.0175_R	0.175	R	0.617	0.671	0.721	0.766
31052.0175_RX	0.175	RX	0.617	0.671	0.721	0.766
31052.0200_R	0.20	R	0.806	0.877	0.941	1.000
31052.0200_RX	0.20	RX	0.806	0.877	0.941	1.000
31052.0250_R	0.25	R	1.259	1.370	1.471	1.563
31052.0250_RX	0.25	RX	1.259	1.370	1.471	1.563
31052.0275_R	0.275	R	1.524	1.658	1.779	1.891
31052.0275_RX	0.275	RX	1.524	1.658	1.779	1.891
31052.0300_R	0.30	R	1.813	1.973	2.118	2.250
31052.0300_RX	0.30	RX	1.813	1.973	2.118	2.250
31052.0350_R	0.35	R	2.468	2.685	2.882	3.063
31052.0350_RX	0.35	RX	2.468	2.685	2.882	3.063
31052.0400_R	0.40	R	3.223	3.508	3.765	4.001
31052.0400_RX	0.40	RX	3.223	3.508	3.765	4.001
31052.0450_R	0.45	R	4.080	4.439	4.765	5.064
31052.0450_RX	0.45	RX	4.080	4.439	4.765	5.064

ART. NR.	DÜSEN Ød mm	Bezeichnung	DRUCK in psi / bar			
			psi36250	psi43500	psi50750	psi58000
			bar2500	bar3000	bar3500	bar4000
			DURCHFLUSSMENGE in l/min			
31052.0500_R	0.50	R	5.037	5.481	5.882	6.251
31052.0500_RX	0.50	RX	5.037	5.481	5.882	6.251
31052.0550_R	0.55	R	6.094	6.632	7.118	7.564
31052.0550_RX	0.55	RX	6.094	6.632	7.118	7.564
31052.0600_R	0.60	R	7.253	7.892	8.471	9.002
31052.0600_RX	0.60	RX	7.253	7.892	8.471	9.002
31052.0650_R	0.65	R	8.512	9.262	9.941	10.565
31052.0650_RX	0.65	RX	8.512	9.262	9.941	10.565
31052.0700_R	0.70	R	9.872	10.742	11.530	12.253
31052.0700_RX	0.70	RX	9.872	10.742	11.530	12.253
31052.0750_R	0.75	R	11.333	12.331	13.236	14.066
31052.0750_RX	0.75	RX	11.333	12.331	13.236	14.066
31052.0800_R	0.80	R	12.894	14.030	15.059	16.004
31052.0800_RX	0.80	RX	12.894	14.030	15.059	16.004
31052.0850_R	0.85	R	14.556	15.839	17.000	18.067
31052.0850_RX	0.85	RX	14.556	15.839	17.000	18.067
31052.0900_R	0.90	R	16.319	17.757	19.059	20.254
31052.0900_RX	0.90	RX	16.319	17.757	19.059	20.254
31052.0950_R	0.95	R	18.182	19.785	21.236	22.568
31052.0950_RX	0.95	RX	18.182	19.785	21.236	22.568
31052.1000_R	1.00	R	20.147	21.922	23.530	25.006
31052.1000_RX	1.00	RX	20.147	21.922	23.530	25.006
31053.0080_A	0.08	A	0.129	0.140	0.151	0.160
31053.0080_AX	0.08	AX	0.129	0.140	0.151	0.160
31053.0100_A	0.10	A	0.201	0.219	0.235	0.250
31053.0100_AX	0.10	AX	0.201	0.219	0.235	0.250
31053.0125_A	0.125	A	0.315	0.343	0.368	0.391
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31053.0150_A	0.15	A	0.453	0.493	0.529	0.563
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ART. NR.	DÜSEN Ød mm	Bezeichnung	DRUCK in psi / bar			
			psi36250	psi43500	psi50750	psi58000
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			DURCHFLUSSMENGE in l/min			
31053.0175_A	0.175	A	0.617	0.671	0.721	0.766
31053.0175_AX	0.175	AX	0.617	0.671	0.721	0.766
31053.0200_A	0.20	A	0.806	0.877	0.941	1.000
31053.0200_AX	0.20	AX	0.806	0.877	0.941	1.000
31053.0250_A	0.25	A	1.259	1.370	1.471	1.563
31053.0250_AX	0.25	AX	1.259	1.370	1.471	1.563
31053.0275_A	0.275	A	1.524	1.658	1.779	1.891
31053.0275_AX	0.275	AX	1.524	1.658	1.779	1.891
31053.0300_A	0.30	A	1.813	1.973	2.118	2.250
31053.0300_AX	0.30	AX	1.813	1.973	2.118	2.250
31053.0350_A	0.35	A	2.468	2.685	2.882	3.063
31053.0350_AX	0.35	AX	2.468	2.685	2.882	3.063
31053.0400_A	0.40	A	3.223	3.508	3.765	4.001
31053.0400_AX	0.40	AX	3.223	3.508	3.765	4.001
31053.0450_A	0.45	A	4.080	4.439	4.765	5.064
31053.0450_AX	0.45	AX	4.080	4.439	4.765	5.064
31053.0500_A	0.50	A	5.037	5.481	5.882	6.251
31053.0500_AX	0.50	AX	5.037	5.481	5.882	6.251
31053.0550_A	0.55	A	6.094	6.632	7.118	7.564
31053.0550_AX	0.55	AX	6.094	6.632	7.118	7.564
31053.0600_A	0.60	A	7.253	7.892	8.471	9.002
31053.0600_AX	0.60	AX	7.253	7.892	8.471	9.002
31053.0650_A	0.65	A	8.512	9.262	9.941	10.565
31053.0650_AX	0.65	AX	8.512	9.262	9.941	10.565
31053.0700_A	0.70	A	9.872	10.742	11.530	12.253
31053.0700_AX	0.70	AX	9.872	10.742	11.530	12.253
31053.0750_A	0.75	A	11.333	12.331	13.236	14.066
31053.0750_AX	0.75	AX	11.333	12.331	13.236	14.066
31053.0800_A	0.80	A	12.894	14.030	15.059	16.004
31053.0800_AX	0.80	AX	12.894	14.030	15.059	16.004

ART. NR.	DÜSEN Ød mm	Bezeichnung	DRUCK in psi / bar			
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31053.0900_A	0.90	A	16.319	17.757	19.059	20.254
31053.0900_AX	0.90	AX	16.319	17.757	19.059	20.254
31053.0950_A	0.95	A	18.182	19.785	21.236	22.568
31053.0950_AX	0.95	AX	18.182	19.785	21.236	22.568
31053.1000_A	1.00	A	20.147	21.922	23.530	25.006
31053.1000_AX	1.00	AX	20.147	21.922	23.530	25.006

FAQ

1. What is special about the type 259 sapphire nozzle?

The nozzle has no neck, which makes it particularly compact and suitable for special installation situations.

2. What applications can it be used for?

The nozzle is suitable for both pure water and abrasive cutting.

3. What are the advantages of the neckless design?

It enables space-saving integration and can optimize the flow characteristics in certain applications.

4. Which materials can be cut?

From soft materials such as paper or food to hard materials such as metal, glass or stone.

5. Are there any restrictions on availability?

Yes, the sapphire nozzle 259 is only available while stocks last - prices and delivery times are available on request.