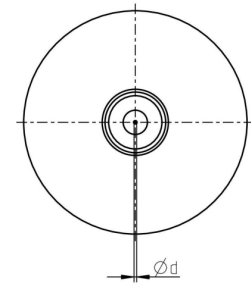
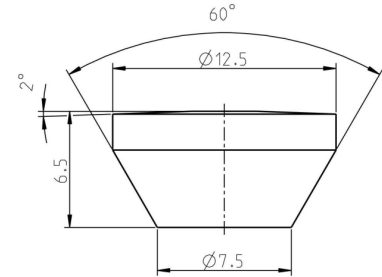


Sapphire nozzle 260

The sapphire nozzle type 260 can be used as a pure water or abrasive cutting nozzle. The nozzle has a sealing angle of 60° and no neck.



- Type 23
- Paser® III
- P-3

Features and advantages

- Long service life
- Constant beam 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	31048._ _	R / RX
Abrasive	31049._ _	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. NR.	DÜSEN Ød mm	Bezeichnung	DRUCK in psi / bar			
			psi36250	psi43500	psi50750	psi58000
			bar2500	bar3000	bar3500	bar4000
			DURCHFLUSSMENGE in l/min			
31048.0080_R	0.08	R	0.129	0.140	0.151	0.160
31048.0080_RX	0.08	RX	0.129	0.140	0.151	0.160
31048.0100_R	0.10	R	0.201	0.219	0.235	0.250
31048.0100_RX	0.10	RX	0.201	0.219	0.235	0.250
31048.0125_R	0.125	R	0.315	0.343	0.368	0.391
31048.0125_RX	0.125	RX	0.315	0.343	0.368	0.391
31048.0150_R	0.15	R	0.453	0.493	0.529	0.563
31048.0150_RX	0.15	RX	0.453	0.493	0.529	0.563
31048.0175_R	0.175	R	0.617	0.671	0.721	0.766
31048.0175_RX	0.175	RX	0.617	0.671	0.721	0.766
31048.0200_R	0.20	R	0.806	0.877	0.941	1.000
31048.0200_RX	0.20	RX	0.806	0.877	0.941	1.000
31048.0250_R	0.25	R	1.259	1.370	1.471	1.563
31048.0250_RX	0.25	RX	1.259	1.370	1.471	1.563
31048.0275_R	0.275	R	1.524	1.658	1.779	1.891
31048.0275_RX	0.275	RX	1.524	1.658	1.779	1.891
31048.0300_R	0.30	R	1.813	1.973	2.118	2.250
31048.0300_RX	0.30	RX	1.813	1.973	2.118	2.250
31048.0350_R	0.35	R	2.468	2.685	2.882	3.063
31048.0350_RX	0.35	RX	2.468	2.685	2.882	3.063
31048.0400_R	0.40	R	3.223	3.508	3.765	4.001
31048.0400_RX	0.40	RX	3.223	3.508	3.765	4.001
31048.0450_R	0.45	R	4.080	4.439	4.765	5.064
31048.0450_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			
31048.0500_R	0.50	R	5.037	5.481	5.882	6.251
31048.0500_RX	0.50	RX	5.037	5.481	5.882	6.251
31048.0550_R	0.55	R	6.094	6.632	7.118	7.564
31048.0550_RX	0.55	RX	6.094	6.632	7.118	7.564
31048.0600_R	0.60	R	7.253	7.892	8.471	9.002
31048.0600_RX	0.60	RX	7.253	7.892	8.471	9.002
31048.0650_R	0.65	R	8.512	9.262	9.941	10.565
31048.0650_RX	0.65	RX	8.512	9.262	9.941	10.565
31048.0700_R	0.70	R	9.872	10.742	11.530	12.253
31048.0700_RX	0.70	RX	9.872	10.742	11.530	12.253
31048.0750_R	0.75	R	11.333	12.331	13.236	14.066
31048.0750_RX	0.75	RX	11.333	12.331	13.236	14.066
31048.0800_R	0.80	R	12.894	14.030	15.059	16.004
31048.0800_RX	0.80	RX	12.894	14.030	15.059	16.004
31048.0850_R	0.85	R	14.556	15.839	17.000	18.067
31048.0850_RX	0.85	RX	14.556	15.839	17.000	18.067
31048.0900_R	0.90	R	16.319	17.757	19.059	20.254
31048.0900_RX	0.90	RX	16.319	17.757	19.059	20.254
31048.0950_R	0.95	R	18.182	19.785	21.236	22.568
31048.0950_RX	0.95	RX	18.182	19.785	21.236	22.568
31048.1000_R	1.00	R	20.147	21.922	23.530	25.006
31048.1000_RX	1.00	RX	20.147	21.922	23.530	25.006
31049.0080_A	0.08	A	0.129	0.140	0.151	0.160
31049.0080_AX	0.08	AX	0.129	0.140	0.151	0.160
31049.0100_A	0.10	A	0.201	0.219	0.235	0.250
31049.0100_AX	0.10	AX	0.201	0.219	0.235	0.250
31049.0125_A	0.125	A	0.315	0.343	0.368	0.391
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31049.0150_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			
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31049.0175_A	0.175	A	0.617	0.671	0.721	0.766
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31049.0200_A	0.20	A	0.806	0.877	0.941	1.000
31049.0200_AX	0.20	AX	0.806	0.877	0.941	1.000
31049.0250_A	0.25	A	1.259	1.370	1.471	1.563
31049.0250_AX	0.25	AX	1.259	1.370	1.471	1.563
31049.0275_A	0.275	A	1.524	1.658	1.779	1.891
31049.0275_AX	0.275	AX	1.524	1.658	1.779	1.891
31049.0300_A	0.30	A	1.813	1.973	2.118	2.250
31049.0300_AX	0.30	AX	1.813	1.973	2.118	2.250
31049.0350_A	0.35	A	2.468	2.685	2.882	3.063
31049.0350_AX	0.35	AX	2.468	2.685	2.882	3.063
31049.0400_A	0.40	A	3.223	3.508	3.765	4.001
31049.0400_AX	0.40	AX	3.223	3.508	3.765	4.001
31049.0450_A	0.45	A	4.080	4.439	4.765	5.064
31049.0450_AX	0.45	AX	4.080	4.439	4.765	5.064
31049.0500_A	0.50	A	5.037	5.481	5.882	6.251
31049.0500_AX	0.50	AX	5.037	5.481	5.882	6.251
31049.0550_A	0.55	A	6.094	6.632	7.118	7.564
31049.0550_AX	0.55	AX	6.094	6.632	7.118	7.564
31049.0600_A	0.60	A	7.253	7.892	8.471	9.002
31049.0600_AX	0.60	AX	7.253	7.892	8.471	9.002
31049.0650_A	0.65	A	8.512	9.262	9.941	10.565
31049.0650_AX	0.65	AX	8.512	9.262	9.941	10.565
31049.0700_A	0.70	A	9.872	10.742	11.530	12.253
31049.0700_AX	0.70	AX	9.872	10.742	11.530	12.253
31049.0750_A	0.75	A	11.333	12.331	13.236	14.066
31049.0750_AX	0.75	AX	11.333	12.331	13.236	14.066
31049.0800_A	0.80	A	12.894	14.030	15.059	16.004
31049.0800_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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31049.0900_A	0.90	A	16.319	17.757	19.059	20.254
31049.0900_AX	0.90	AX	16.319	17.757	19.059	20.254
31049.0950_A	0.95	A	18.182	19.785	21.236	22.568
31049.0950_AX	0.95	AX	18.182	19.785	21.236	22.568
31049.1000_A	1.00	A	20.147	21.922	23.530	25.006
31049.1000_AX	1.00	AX	20.147	21.922	23.530	25.006

FAQ

1. What is the sapphire nozzle type 260 used for?

The sapphire nozzle 260 is suitable for pure water and abrasive cutting and is used for a wide range of materials - from soft materials to high-strength metals.

2. What does the neckless design of the nozzle mean?

The lack of a neck makes the nozzle particularly compact and ideal for applications with limited installation space or special cutting head systems.

3. What is the significance of the sealing angle of 60°?

The sealing angle of 60° ensures a reliable seal and contributes to a stable and consistent jet quality.

4. What are the advantages of the Type 23 / Paser® III / P-3 variants?

These versions are specially designed for different cutting systems and guarantee optimum integration and high process reliability.

5. What performance data is possible?

The nozzle is designed for operating pressures up to 4000 bar and temperatures up to 150 °C and offers a flow rate of approx. 0.129 to 25.006 l/min - depending on the nozzle diameter.