

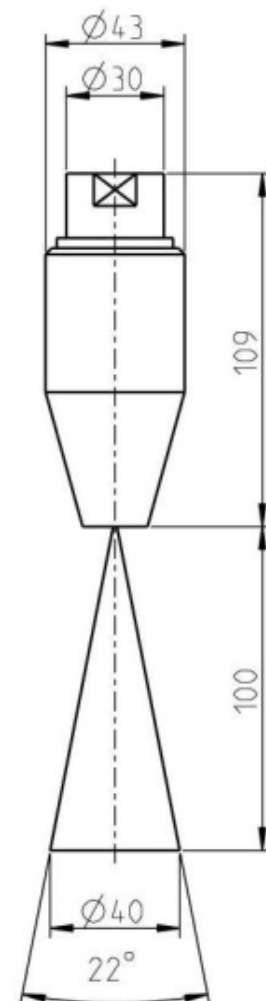
— Monro-Jet F4

Orbital nozzle Monro-Jet F4

MONRO-JET® nozzles combine the high power of the spot jet with the large area output of the flat jet. They can be used with all approved high-pressure fittings and can be mounted on lances. The F4 model can be used up to an operating pressure of 500 bar, and five different connection thread types are available. Thanks to their compact design, **MONRO-JET®** nozzles can be used in both building construction and civil engineering for surface treatment and cleaning.

Features and advantages

- Several times higher cleaning performance
- Consistent jet quality
- Long service life
- Lightweight, robust and reliable
- Easy to install and dismantle
- Swiss Quality



Applications

MVT AG is a Swiss supplier of high-quality and precise components and systems for the industrial sector.

- Removal of bitumen layers
- Removal of surface coatings
- Paint removal
- Surface treatment

Connection thread	ART. NO. (1)
1/4" BSP	31433._ _
1/2" BSP	31431._ _
1/2" NPT	31442._ _
3/8" BSP	31429._ _
3/8" NPT	31430._ _

Specifications



**Operating pressure (bar)
max.**

500



**Operating temperature (°C)
max.**

100



Rotor Ø (mm)

from 0.60 to 2.80

ART. NO.	Rotor Ø	DRIVE PIPE Ø	NUMBER OF BORES	PRESSURE in psi / bar	
				psi2900	psi7250
				bar200	bar500
				FLOW RATE in l/min	
31433.0600	0.60	0.60	2	2.849	4.482
31433.0650	0.65	0.65	2	3.328	5.235
31433.0700	0.70	0.70	2	3.400	5.348
31433.0750	0.75	0.70	2	3.719	5.990
31433.0800	0.80	0.70	2	4.711	7.354
31433.0850	0.85	0.70	2	5.054	7.950
31433.0900	0.90	0.70	2	6.305	9.916
31433.0950	0.95	1.00	2	6.788	10.676
31433.1000	1.00	1.00	2	7.971	12.537
31433.1050	1.05	1.20	2	8.612	13.546
31433.1100	1.10	1.40	2	9.804	15.420
31433.1150	1.15	1.40	2	10.418	16.385

ART. NO.	Rotor Ø	DRIVE PIPE Ø	NUMBER OF BORES	PRESSURE in psi / bar	
				psi2900	psi7250
				bar200	bar500
FLOW RATE in l/min					
31433.1200	1.20	1.80	2	12.018	18.903
31433.1250	1.25	1.80	2	13.143	20.673
31433.1300	1.30	2.40	2	14.263	22.434
31433.1350	1.35	2.40	2	15.689	24.677
31433.1400	1.40	2.40	2	16.910	26.597
31433.1450	1.45	2.60	2	18.238	28.685
31433.1500	1.50	2.60	2	19.517	30.698
31433.1550	1.55	2.80	2	20.840	32.779
31433.1600	1.60	2.80	2	22.206	34.927
31433.1650	1.65	3.00	2	23.616	37.144
31433.1700	1.70	3.00	2	25.069	39.430
31433.1750	1.75	3.00	2	26.565	41.783
31433.1800	1.80	3.20	2	28.105	44.205
31433.1850	1.85	3.20	2	29.688	46.695
31433.1900	1.90	3.20	2	31.314	49.253
31433.1950	1.95	3.20	2	32.984	51.879
31433.2000	2.00	3.00	4	34.697	54.574
31433.2050	2.05	3.00	4	36.454	57.337
31433.2100	2.10	3.00	4	38.254	60.168
31433.2150	2.15	3.20	4	40.097	63.067
31433.2200	2.20	3.20	4	41.984	66.035
31433.2250	2.25	3.20	4	43.914	69.070
31433.2300	2.30	3.20	4	45.887	72.174
31433.2350	2.35	3.20	4	47.904	75.346
31433.2400	2.40	3.20	4	49.964	78.587
31433.2450	2.45	3.20	4	52.067	81.895
31433.2500	2.50	3.20	4	54.214	85.272
31433.2550	2.55	3.50	4	56.404	88.717

ART. NO.	Rotor Ø	DRIVE PIPE Ø	NUMBER OF BORES	PRESSURE in psi / bar	
				psi2900	psi7250
				bar200	bar500
FLOW RATE in l/min					
31433.2600	2.60	3.50	4	58.638	92.230
31433.2650	2.65	3.50	4	60.915	95.812
31433.2700	2.70	3.50	4	63.235	99.461
31433.2750	2.75	3.50	4	65.599	103.179
31433.2800	2.80	3.50	4	68.006	106.965
31431.0600	0.60	0.60	2	2.849	4.482
31431.0650	0.65	0.65	2	3.328	5.235
31431.0700	0.70	0.70	2	3.400	5.348
31431.0750	0.75	0.70	2	3.719	5.990
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31431.1550	1.55	2.80	2	20.840	32.779
31431.1600	1.60	2.80	2	22.206	34.927
31431.1650	1.65	3.00	2	23.616	37.144
31431.1700	1.70	3.00	2	25.069	39.430

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				psi2900	psi7250
				bar200	bar500
FLOW RATE in l/min					
31431.1750	1.75	3.00	2	26.565	41.783
31431.1800	1.80	3.20	2	28.105	44.205
31431.1850	1.85	3.20	2	29.688	46.695
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31431.2750	2.75	3.50	4	65.599	103.179
31431.2800	2.80	3.50	4	68.006	106.965
31442.0600	0.60	0.60	2	2.849	4.482
31442.0650	0.65	0.65	2	3.328	5.235
31442.0700	0.70	0.70	2	3.400	5.348
31442.0750	0.75	0.70	2	3.719	5.990
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FLOW RATE in l/min					
31442.0900	0.90	0.70	2	6.305	9.916
31442.0950	0.95	1.00	2	6.788	10.676
31442.1000	1.00	1.00	2	7.971	12.537
31442.1050	1.05	1.20	2	8.612	13.546
31442.1100	1.10	1.40	2	9.804	15.420
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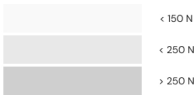
ART. NO.	Rotor Ø	DRIVE PIPE Ø	NUMBER OF BORES	PRESSURE in psi / bar	
				psi2900	psi7250
				bar200	bar500
FLOW RATE in l/min					
31429.1450	1.45	2.60	2	18.238	28.685
31429.1500	1.50	2.60	2	19.517	30.698
31429.1550	1.55	2.80	2	20.840	32.779
31429.1600	1.60	2.80	2	22.206	34.927
31429.1650	1.65	3.00	2	23.616	37.144
31429.1700	1.70	3.00	2	25.069	39.430
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31429.2600	2.60	3.50	4	58.638	92.230
31429.2650	2.65	3.50	4	60.915	95.812
31429.2700	2.70	3.50	4	63.235	99.461
31429.2750	2.75	3.50	4	65.599	103.179
31429.2800	2.80	3.50	4	68.006	106.965

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				psi2900	psi7250
				bar200	bar500
				FLOW RATE in l/min	
31430.0600	0.60	0.60	2	2.849	4.482
31430.0650	0.65	0.65	2	3.328	5.235
31430.0700	0.70	0.70	2	3.400	5.348
31430.0750	0.75	0.70	2	3.719	5.990
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31430.2750	2.75	3.50	4	65.599	103.179
31430.2800	2.80	3.50	4	68.006	106.965

Instruction

When using high-pressure spray guns and lances manually, the recoil force to be absorbed in the longitudinal axis of the spraying device must not exceed 250N! If the recoil force exceeds 150N, a body support must be used!



Accessories



Assembly tool

Art. No. 10269

FAQ

1. What is the MONRO-JET® F4 and what is it suitable for?

The MONRO-JET® F4 is a compact orbital nozzle for industrial cleaning and surface treatment processes up to 500 bar. It combines the high power of a point jet with the surface performance of a flat jet, ensuring efficient, uniform processing. Thanks to its compact design, it is versatile and can be used in both building construction and civil engineering.

2. What are the technical specifications of the MONRO-JET® F4?

The most important performance data at a glance:

- **Max. Operating pressure:** 500 bar
- **Max. Operating temperature:** 100 °C
- **Rotor diameter:** 0.60 mm to 2.80 mm
- **Bores:** 2 or 4 (depending on model)
- **Flow rate:** approx. 2.85 to 106.97 l/min (at 200-500 bar, depending on model)

The wide selection of rotor sizes enables precise adaptation to different applications and pump capacities.

3. Which connection threads are available for the F4?

The MONRO-JET® F4 is available with five different connection threads and can be used with all approved high-pressure fittings and mounted on lances.

Available thread types:

- 1/4" BSP
- 3/8" BSP
- 3/8" NPT
- 1/2" BSP
- 1/2" NPT

This means that the nozzle can be easily integrated into existing high-pressure systems.

4. What advantages does the MONRO-JET® F4 offer in daily use?

The F4 impresses with:

- Several times higher cleaning performance
- Consistent jet quality
- Long service life
- Lightweight, robust and reliable design
- Easy installation and dismantling
- Swiss Quality

It is particularly suitable for applications such as bitumen removal, surface coating removal, paint removal and general surface treatment.

5. What should I bear in mind when using the MONRO-JET® F4 manually?

When used manually with high-pressure spray guns or lances, the recoil force in the longitudinal axis must not exceed 250 N. If the recoil force exceeds 150 N, a suitable body support must be used.

Suitable components are available for maintenance and protection:

- **Nozzle body F4** (art. no. 10342)
- **Assembly tool** (art. no. 10269)
- **Plastic protective cap** (item no. 31857)