

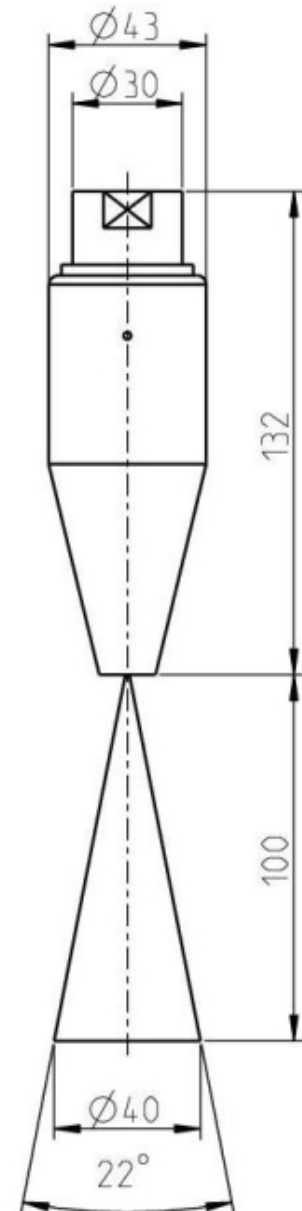
— Monro-Jet F3

Orbital nozzle Monro-Jet F3

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 F3 model can be used up to an operating pressure of 800 bar, and five different connection thread types are available. Thanks to their compact design, **MONRO-JET®** nozzles can be used for surface treatment and cleaning in both building construction and civil engineering.

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.

- Deburring and cleaning of castings
- Paint removal
- Offshore applications
- Shipbuilding
- Removal of surface coatings
- Removal of bitumen layers

Connection thread	ART. NO. (1)
1/4" BSP	31353._ _
1/2" BSP	31351._ _
1/2" NPT	31347._ _
3/8" BSP	31344._ _
3/8" NPT	31350._ _

Specifications



**Operating pressure (bar)
max.**

800



**Operating temperature (°C)
max.**

100



Rotor Ø (mm)

from 0.60 to 2.80

ART. NR.	Rotor Ø	TREIBROHR Ø	ANZAHL BOHRUNGEN	DRUCK in psi / bar		
				psi2900	psi7250	psi11600
				bar200	bar500	bar800
DURCHFLUSSMENGE in l/min						
31353.0600	0.60	0.60	2	2.836	4.508	5.687
31353.0650	0.65	0.65	2	3.328	5.235	6.588
31353.0700	0.70	0.70	2	3.400	5.348	6.731
31353.0750	0.75	0.70	2	3.719	5.990	7.372
31353.0800	0.80	0.70	2	4.711	7.354	9.171
31353.0850	0.85	0.80	2	5.081	7.907	9.925
31353.0900	0.90	1.00	2	6.327	9.880	12.450
31353.0950	0.95	1.00	2	6.788	10.676	13.302
31353.1000	1.00	1.20	2	7.971	12.537	15.778
31353.1050	1.05	1.20	2	8.633	13.578	17.089
31353.1100	1.10	1.40	2	9.758	15.349	19.316

ART. NR.	Rotor Ø	TREIBROHR Ø	ANZAHL BOHRUNGEN	DRUCK in psi / bar		
				psi2900	psi7250	psi11600
				bar200	bar500	bar800
				DURCHFLUSSMENGE in l/min		
31353.1150	1.15	1.40	2	10.418	16.385	20.621
31353.1200	1.20	1.80	2	12.005	18.882	23.763
31353.1250	1.25	1.80	2	12.894	20.281	25.524
31353.1300	1.30	2.40	2	14.580	22.933	28.861
31353.1350	1.35	2.40	2	15.638	24.596	30.955
31353.1400	1.40	2.40	2	16.910	26.597	33.472
31353.1450	1.45	2.60	2	18.238	28.685	36.101
31353.1500	1.50	2.60	2	19.412	30.532	38.425
31353.1550	1.55	2.80	2	20.840	32.779	41.252
31353.1600	1.60	2.80	2	22.206	34.927	43.956
31353.1650	1.65	3.00	2	23.616	37.144	46.747
31353.1700	1.70	3.00	2	25.069	39.430	49.623
31353.1750	1.75	3.00	2	26.565	41.783	52.585
31353.1800	1.80	3.20	2	28.105	44.205	55.632
31353.1850	1.85	3.20	2	29.688	46.695	58.766
31353.1900	1.90	3.20	2	31.314	49.253	61.985
31353.1950	1.95	3.20	2	32.984	51.879	65.291
31353.2000	2.00	3.00	4	34.697	54.574	68.682
31353.2050	2.05	3.00	4	36.454	57.337	72.159
31353.2100	2.10	3.00	4	38.254	60.168	75.722
31353.2150	2.15	3.20	4	40.097	63.067	79.370
31353.2200	2.20	3.20	4	41.984	66.035	83.105
31353.2250	2.25	3.20	4	43.914	69.070	86.926
31353.2300	2.30	3.20	4	45.887	72.174	90.832
31353.2350	2.35	3.20	4	47.904	75.346	94.824
31353.2400	2.40	3.20	4	49.964	78.587	98.902
31353.2450	2.45	3.20	4	52.067	81.895	103.066
31353.2500	2.50	3.20	4	54.214	85.272	107.315

ART. NR.	Rotor Ø	TREIBROHR Ø	ANZAHL BOHRUNGEN	DRUCK in psi / bar		
				psi2900	psi7250	psi11600
				bar200	bar500	bar800
				DURCHFLUSSMENGE in l/min		
31353.2550	2.55	3.50	4	56.404	88.717	111.651
31353.2600	2.60	3.50	4	58.638	92.230	116.072
31353.2650	2.65	3.50	4	60.915	95.812	120.580
31353.2700	2.70	3.50	4	63.235	99.461	125.173
31353.2750	2.75	3.50	4	65.599	103.179	129.852
31353.2800	2.80	3.50	4	68.006	106.965	134.616
31351.0600	0.60	0.60	2	2.836	4.508	5.687
31351.0650	0.65	0.65	2	3.328	5.235	6.588
31351.0700	0.70	0.70	2	3.400	5.348	6.731
31351.0750	0.75	0.70	2	3.719	5.990	7.372
31351.0800	0.80	0.70	2	4.711	7.354	9.171
31351.0850	0.85	0.80	2	5.081	7.907	9.925
31351.0900	0.90	1.00	2	6.327	9.880	12.450
31351.0950	0.95	1.00	2	6.788	10.676	13.302
31351.1000	1.00	1.20	2	7.971	12.537	15.778
31351.1050	1.05	1.20	2	8.633	13.578	17.089
31351.1100	1.10	1.40	2	9.758	15.349	19.316
31351.1150	1.15	1.40	2	10.418	16.385	20.621
31351.1200	1.20	1.80	2	12.005	18.882	23.763
31351.1250	1.25	1.80	2	12.894	20.281	25.524
31351.1300	1.30	2.40	2	14.580	22.933	28.861
31351.1350	1.35	2.40	2	15.638	24.596	30.955
31351.1400	1.40	2.40	2	16.910	26.597	33.472
31351.1450	1.45	2.60	2	18.238	28.685	36.101
31351.1500	1.50	2.60	2	19.412	30.532	38.425
31351.1550	1.55	2.80	2	20.840	32.779	41.252
31351.1600	1.60	2.80	2	22.206	34.927	43.956
31351.1650	1.65	3.00	2	23.616	37.144	46.747

ART. NR.	Rotor Ø	TREIBROHR Ø	ANZAHL BOHRUNGEN	DRUCK in psi / bar		
				psi2900	psi7250	psi11600
				bar200	bar500	bar800
DURCHFLUSSMENGE in l/min						
31351.1700	1.70	3.00	2	25.069	39.430	49.623
31351.1750	1.75	3.00	2	26.565	41.783	52.585
31351.1800	1.80	3.20	2	28.105	44.205	55.632
31351.1850	1.85	3.20	2	29.688	46.695	58.766
31351.1900	1.90	3.20	2	31.314	49.253	61.985
31351.1950	1.95	3.20	2	32.984	51.879	65.291
31351.2000	2.00	3.00	4	34.697	54.574	68.682
31351.2050	2.05	3.00	4	36.454	57.337	72.159
31351.2100	2.10	3.00	4	38.254	60.168	75.722
31351.2150	2.15	3.20	4	40.097	63.067	79.370
31351.2200	2.20	3.20	4	41.984	66.035	83.105
31351.2250	2.25	3.20	4	43.914	69.070	86.926
31351.2300	2.30	3.20	4	45.887	72.174	90.832
31351.2350	2.35	3.20	4	47.904	75.346	94.824
31351.2400	2.40	3.20	4	49.964	78.587	98.902
31351.2450	2.45	3.20	4	52.067	81.895	103.066
31351.2500	2.50	3.20	4	54.214	85.272	107.315
31351.2550	2.55	3.50	4	56.404	88.717	111.651
31351.2600	2.60	3.50	4	58.638	92.230	116.072
31351.2650	2.65	3.50	4	60.915	95.812	120.580
31351.2700	2.70	3.50	4	63.235	99.461	125.173
31351.2750	2.75	3.50	4	65.599	103.179	129.852
31351.2800	2.80	3.50	4	68.006	106.965	134.616
31347.0600	0.60	0.60	2	2.836	4.508	5.687
31347.0650	0.65	0.65	2	3.328	5.235	6.588
31347.0700	0.70	0.70	2	3.400	5.348	6.731
31347.0750	0.75	0.70	2	3.719	5.990	7.372
31347.0800	0.80	0.70	2	4.711	7.354	9.171

ART. NR.	Rotor Ø	TREIBROHR Ø	ANZAHL BOHRUNGEN	DRUCK in psi / bar		
				psi2900	psi7250	psi11600
				bar200	bar500	bar800
DURCHFLUSSMENGE in l/min						
31347.0850	0.85	0.80	2	5.081	7.907	9.925
31347.0900	0.90	1.00	2	6.327	9.880	12.450
31347.0950	0.95	1.00	2	6.788	10.676	13.302
31347.1000	1.00	1.20	2	7.971	12.537	15.778
31347.1050	1.05	1.20	2	8.633	13.578	17.089
31347.1100	1.10	1.40	2	9.758	15.349	19.316
31347.1150	1.15	1.40	2	10.418	16.385	20.621
31347.1200	1.20	1.80	2	12.005	18.882	23.763
31347.1250	1.25	1.80	2	12.894	20.281	25.524
31347.1300	1.30	2.40	2	14.580	22.933	28.861
31347.1350	1.35	2.40	2	15.638	24.596	30.955
31347.1400	1.40	2.40	2	16.910	26.597	33.472
31347.1450	1.45	2.60	2	18.238	28.685	36.101
31347.1500	1.50	2.60	2	19.412	30.532	38.425
31347.1550	1.55	2.80	2	20.840	32.779	41.252
31347.1600	1.60	2.80	2	22.206	34.927	43.956
31347.1650	1.65	3.00	2	23.616	37.144	46.747
31347.1700	1.70	3.00	2	25.069	39.430	49.623
31347.1750	1.75	3.00	2	26.565	41.783	52.585
31347.1800	1.80	3.20	2	28.105	44.205	55.632
31347.1850	1.85	3.20	2	29.688	46.695	58.766
31347.1900	1.90	3.20	2	31.314	49.253	61.985
31347.1950	1.95	3.20	2	32.984	51.879	65.291
31347.2000	2.00	3.00	4	34.697	54.574	68.682
31347.2050	2.05	3.00	4	36.454	57.337	72.159
31347.2100	2.10	3.00	4	38.254	60.168	75.722
31347.2150	2.15	3.20	4	40.097	63.067	79.370
31347.2200	2.20	3.20	4	41.984	66.035	83.105

ART. NR.	Rotor Ø	TREIBROHR Ø	ANZAHL BOHRUNGEN	DRUCK in psi / bar		
				psi2900	psi7250	psi11600
				bar200	bar500	bar800
DURCHFLUSSMENGE in l/min						
31347.2250	2.25	3.20	4	43.914	69.070	86.926
31347.2300	2.30	3.20	4	45.887	72.174	90.832
31347.2350	2.35	3.20	4	47.904	75.346	94.824
31347.2400	2.40	3.20	4	49.964	78.587	98.902
31347.2450	2.45	3.20	4	52.067	81.895	103.066
31347.2500	2.50	3.20	4	54.214	85.272	107.315
31347.2550	2.55	3.50	4	56.404	88.717	111.651
31347.2600	2.60	3.50	4	58.638	92.230	116.072
31347.2650	2.65	3.50	4	60.915	95.812	120.580
31347.2700	2.70	3.50	4	63.235	99.461	125.173
31347.2750	2.75	3.50	4	65.599	103.179	129.852
31347.2800	2.80	3.50	4	68.006	106.965	134.616
31344.0600	0.60	0.60	2	2.836	4.508	5.687
31344.0650	0.65	0.65	2	3.328	5.235	6.588
31344.0700	0.70	0.70	2	3.400	5.348	6.731
31344.0750	0.75	0.70	2	3.719	5.990	7.372
31344.0800	0.80	0.70	2	4.711	7.354	9.171
31344.0850	0.85	0.80	2	5.081	7.907	9.925
31344.0900	0.90	1.00	2	6.327	9.880	12.450
31344.0950	0.95	1.00	2	6.788	10.676	13.302
31344.1000	1.00	1.20	2	7.971	12.537	15.778
31344.1050	1.05	1.20	2	8.633	13.578	17.089
31344.1100	1.10	1.40	2	9.758	15.349	19.316
31344.1150	1.15	1.40	2	10.418	16.385	20.621
31344.1200	1.20	1.80	2	12.005	18.882	23.763
31344.1250	1.25	1.80	2	12.894	20.281	25.524
31344.1300	1.30	2.40	2	14.580	22.933	28.861
31344.1350	1.35	2.40	2	15.638	24.596	30.955

ART. NR.	Rotor Ø	TREIBROHR Ø	ANZAHL BOHRUNGEN	DRUCK in psi / bar		
				psi2900	psi7250	psi11600
				bar200	bar500	bar800
DURCHFLUSSMENGE in l/min						
31344.1400	1.40	2.40	2	16.910	26.597	33.472
31344.1450	1.45	2.60	2	18.238	28.685	36.101
31344.1500	1.50	2.60	2	19.412	30.532	38.425
31344.1550	1.55	2.80	2	20.840	32.779	41.252
31344.1600	1.60	2.80	2	22.206	34.927	43.956
31344.1650	1.65	3.00	2	23.616	37.144	46.747
31344.1700	1.70	3.00	2	25.069	39.430	49.623
31344.1750	1.75	3.00	2	26.565	41.783	52.585
31344.1800	1.80	3.20	2	28.105	44.205	55.632
31344.1850	1.85	3.20	2	29.688	46.695	58.766
31344.1900	1.90	3.20	2	31.314	49.253	61.985
31344.1950	1.95	3.20	2	32.984	51.879	65.291
31344.2000	2.00	3.00	4	34.697	54.574	68.682
31344.2050	2.05	3.00	4	36.454	57.337	72.159
31344.2100	2.10	3.00	4	38.254	60.168	75.722
31344.2150	2.15	3.20	4	40.097	63.067	79.370
31344.2200	2.20	3.20	4	41.984	66.035	83.105
31344.2250	2.25	3.20	4	43.914	69.070	86.926
31344.2300	2.30	3.20	4	45.887	72.174	90.832
31344.2350	2.35	3.20	4	47.904	75.346	94.824
31344.2400	2.40	3.20	4	49.964	78.587	98.902
31344.2450	2.45	3.20	4	52.067	81.895	103.066
31344.2500	2.50	3.20	4	54.214	85.272	107.315
31344.2550	2.55	3.50	4	56.404	88.717	111.651
31344.2600	2.60	3.50	4	58.638	92.230	116.072
31344.2650	2.65	3.50	4	60.915	95.812	120.580
31344.2700	2.70	3.50	4	63.235	99.461	125.173
31344.2750	2.75	3.50	4	65.599	103.179	129.852

ART. NR.	Rotor Ø	TREIBROHR Ø	ANZAHL BOHRUNGEN	DRUCK in psi / bar		
				psi2900	psi7250	psi11600
				bar200	bar500	bar800
				DURCHFLUSSMENGE in l/min		
31344.2800	2.80	3.50	4	68.006	106.965	134.616
31350.0600	0.60	0.60	2	2.836	4.508	5.687
31350.0650	0.65	0.65	2	3.328	5.235	6.588
31350.0700	0.70	0.70	2	3.400	5.348	6.731
31350.0750	0.75	0.70	2	3.719	5.990	7.372
31350.0800	0.80	0.70	2	4.711	7.354	9.171
31350.0850	0.85	0.80	2	5.081	7.907	9.925
31350.0900	0.90	1.00	2	6.327	9.880	12.450
31350.0950	0.95	1.00	2	6.788	10.676	13.302
31350.1000	1.00	1.20	2	7.971	12.537	15.778
31350.1050	1.05	1.20	2	8.633	13.578	17.089
31350.1100	1.10	1.40	2	9.758	15.349	19.316
31350.1150	1.15	1.40	2	10.418	16.385	20.621
31350.1200	1.20	1.80	2	12.005	18.882	23.763
31350.1250	1.25	1.80	2	12.894	20.281	25.524
31350.1300	1.30	2.40	2	14.580	22.933	28.861
31350.1350	1.35	2.40	2	15.638	24.596	30.955
31350.1400	1.40	2.40	2	16.910	26.597	33.472
31350.1450	1.45	2.60	2	18.238	28.685	36.101
31350.1500	1.50	2.60	2	19.412	30.532	38.425
31350.1550	1.55	2.80	2	20.840	32.779	41.252
31350.1600	1.60	2.80	2	22.206	34.927	43.956
31350.1650	1.65	3.00	2	23.616	37.144	46.747
31350.1700	1.70	3.00	2	25.069	39.430	49.623
31350.1750	1.75	3.00	2	26.565	41.783	52.585
31350.1800	1.80	3.20	2	28.105	44.205	55.632
31350.1850	1.85	3.20	2	29.688	46.695	58.766
31350.1900	1.90	3.20	2	31.314	49.253	61.985

ART. NR.	Rotor Ø	TREIBROHR Ø	ANZAHL BOHRUNGEN	DRUCK in psi / bar		
				psi2900	psi7250	psi11600
				bar200	bar500	bar800
DURCHFLUSSMENGE in l/min						
31350.1950	1.95	3.20	2	32.984	51.879	65.291
31350.2000	2.00	3.00	4	34.697	54.574	68.682
31350.2050	2.05	3.00	4	36.454	57.337	72.159
31350.2100	2.10	3.00	4	38.254	60.168	75.722
31350.2150	2.15	3.20	4	40.097	63.067	79.370
31350.2200	2.20	3.20	4	41.984	66.035	83.105
31350.2250	2.25	3.20	4	43.914	69.070	86.926
31350.2300	2.30	3.20	4	45.887	72.174	90.832
31350.2350	2.35	3.20	4	47.904	75.346	94.824
31350.2400	2.40	3.20	4	49.964	78.587	98.902
31350.2450	2.45	3.20	4	52.067	81.895	103.066
31350.2500	2.50	3.20	4	54.214	85.272	107.315
31350.2550	2.55	3.50	4	56.404	88.717	111.651
31350.2600	2.60	3.50	4	58.638	92.230	116.072
31350.2650	2.65	3.50	4	60.915	95.812	120.580
31350.2700	2.70	3.50	4	63.235	99.461	125.173
31350.2750	2.75	3.50	4	65.599	103.179	129.852
31350.2800	2.80	3.50	4	68.006	106.965	134.616

Instruction

	< 150 N
	< 250 N
	> 250 N

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® F3 and what is it used for?

The MONRO-JET® F3 is a powerful orbital nozzle for industrial cleaning and surface treatment processes. It combines the high impact force of a spot jet with the surface performance of a flat jet. This makes it ideal for applications such as deburring castings, paint removal, coating removal, bitumen removal, offshore applications and shipbuilding.

2. What technical performance data does the MONRO-JET® F3 offer?

The MONRO-JET® F3 is designed for demanding applications and offers the following specifications:

- **Max. Operating pressure:** 800 bar
- **Max. operating temperature:** 100 °C
- **Rotor diameter:** 0.60 mm to 2.80 mm
- **Flow rate:** approx. 2.8 to 134.6 l/min (depending on model)
- **Bores:** 2 or 4, depending on model

The wide range of rotor and flow rate variants enables precise adaptation to your particular application.

3. Which connection threads are available for the F3?

The MONRO-JET® F3 is available with five different connection threads and is compatible with all approved high-pressure fittings. It can be easily mounted on lances.

Available thread types:

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

This allows the nozzle to be flexibly integrated into existing high-pressure systems.

4. What advantages does the MONRO-JET® F3 offer in daily use?

The F3 impresses with:

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

Its compact design makes it suitable for both building construction and civil engineering.

5. What must be observed when operating the MONRO-JET® F3 manually?

When using 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 service:

- **Nozzle body F3** (Art. No. 10341)
- **Assembly tool** (Art. No. 10269)