

SURFACE PROCESSING

MONRO-JET®-The Original!

Mono-rotating high performance nozzle for up to 2500 bar

MONRO JET® nozzles combine the high power of the point jet with the large surface achievement of the flat jet. They can be used with all certified high pressure connections and be installed onto lances, pistols and robots.

By its compact design the MONRO JET® nozzles are applicable in the building construction as well as in the civil and underground engineering for the surface processing and cleaning.

mvt AG is world-wide the only licensee of the Kärcher patent and manufacturer of the MONRO-JET® nozzles. Trust the original!

CHARACTERISTICS AND ADVANTAGES

- ▶ Several times higher cleaning achievement
- ▶ Easily, simply, tough and reliably
- ▶ Efficiently and economically
- ▶ High-quality materials of all components

APPLICATIONS

- ▶ Surface cleaning
- ▶ Descaling, burring and cast parts cleaning
- ▶ Oil and gas platform cleaning
- ▶ Ship and container cleaning
- ▶ Road and airstrip cleaning
- ▶ Tubing and duct cleaning, root cutting
- ▶ Concrete redevelopment and removal
- ▶ Decoating of smooth and hard surfaces
- ▶ Removal of bitumen tar concrete
- ▶ Facade cleaning, Color coat removal, etc.

MONRO-JET®

TYPE F1 / F2 / F3 / F4 / F6 / F25



MONRO-JET® Family



SPARE PARTS

ROTOR WITH SEAT (ALUMINIUM)

F1 / F2 / F3 / F25



O-ring D7.1x1.6

F4 / F6

Aluminium Plastic



FRONT COVER

F1 / F2 / F25



O-ring D28x2

INLET COVER

F1 / F2 / F3 / F4 / F6 / F25



O-ring D28x2

| CONNECTION THREAD |
|-------------------|
| M14x1.5 LH |
| M24x1.5 RH |
| 1/4" BSP |
| 1/2" BSP |
| 1/2" NPT |
| 3/8" BSP |
| 3/8" NPT |
| 9/16"-18 UNF LH |
| 9/16"-18 UNF RH |

DRIVING TUBE

F1 / F2 / F3 / F4 / F25

F6



O-ring D28x2 for front- and inlet cover

O-ring D14x2 for driving tube

O-ring D7.1x1.6 für Seat

NOZZLE BODY

F1

F2

F3

F4

F6

F25



MOUNTING TOOL



PROTECTION CAP

F1 / F2 / F25

Aluminium Plastic

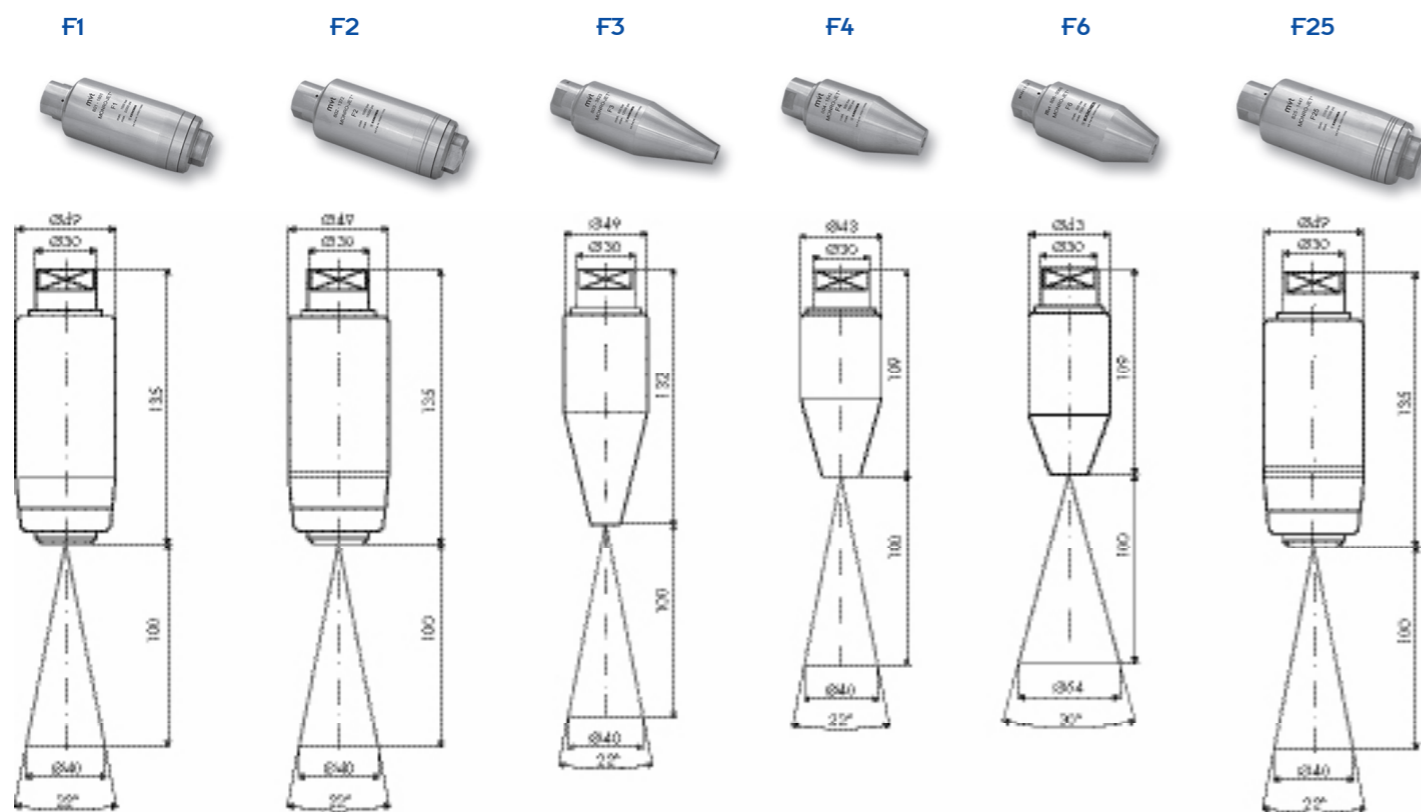


TECHNICAL FEATURES

| FEATURES | MONRO-JET® TYPE | | | | | |
|----------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | F1 | F2 | F3 | F4 | F6 | F25 |
| Operating pressure (bar) | max. 1500 | max. 1000 | max. 800 | max. 500 | max. 500 | max. 2500 |
| Operating temperature (°C) | max. 100° | max. 100° | max. 100° | max. 100° | max. 100° | max. 100° |
| Rotor Ø (mm) | from 0.70 to 1.85 | from 0.70 to 2.20 | from 0.80 to 2.80 | from 0.90 to 2.80 | from 0.90 to 1.65 | from 0.60 to 1.20 |

| CONNECTION THREAD | CODE | MONRO-JET® TYPE | | | | | |
|-------------------|------|-----------------|----|----|----|----|-----|
| | | F1 | F2 | F3 | F4 | F6 | F25 |
| M14x1.5 LH | M14L | • | | | | | • |
| M24x1.5 RH | M24 | • | | | | | |
| 1/4" BSP | 14B | | • | • | • | • | |
| 1/2" BSP | 12B | | • | • | • | • | |
| 1/2" NPT | 12N | | • | • | • | • | |
| 3/8" BSP | 38B | | • | • | • | • | |
| 3/8" NPT | 38N | | • | • | • | • | |
| 9/16"-18 UNF LH | 916L | • | | | | | • |
| 9/16"-18 UNF RH | 916R | • | | | | | • |

NOZZLE TYPES AND MEASURES



PERFORMANCES

| ROTOR | DRIVING TUBE | NUMBER OF BORES | PRESSURE in psi / bar | | | | | | | | | | |
|-------|--------------|-----------------|-----------------------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------|
| | | | psi 2900 | psi 7250 | psi 10875 | psi 14000 | psi 18125 | psi 21750 | psi 25375 | psi 29000 | psi 32625 | psi 36250 | |
| | | | bar 200 | bar 500 | bar 750 | bar 1000 | bar 1250 | bar 1500 | bar 1750 | bar 2000 | bar 2250 | bar 2500 | |
| | | | WATER DENSITY at 20°C | | | | | | | | | | |
| | | | kg/m³ | kg/m³ | kg/m³ | kg/m³ | kg/m³ | kg/m³ | kg/m³ | kg/m³ | kg/m³ | kg/m³ | kg/m³ |
| | | | l/min | l/min | l/min | l/min | l/min | l/min | l/min | l/min | l/min | l/min | l/min |
| 0.60 | 0.60 | 2 | 2.84 | 4.51 | 5.51 | 6.33 | 7.04 | 7.68 | 8.25 | 8.78 | 9.27 | 9.72 | |
| 0.65 | 0.65 | 2 | 3.33 | 5.23 | 6.38 | 7.33 | 8.16 | 8.90 | 9.56 | 10.17 | 10.74 | 11.27 | |
| 0.70 | 0.70 | 2 | 3.40 | 5.35 | 6.52 | 7.49 | 8.34 | 9.09 | 9.77 | 10.39 | 10.97 | 11.51 | |
| 0.75 | 0.75 | 2 | 3.72 | 5.99 | 7.14 | 8.25 | 9.18 | 10.01 | 10.76 | 11.45 | 12.09 | 12.68 | |
| 0.80 | 0.80 | 2 | 4.71 | 7.35 | 8.88 | 10.31 | 11.48 | 12.51 | 13.45 | 14.31 | 15.11 | 15.85 | |
| 0.85 | 0.80 | 2 | 5.08 | 7.90 | 9.61 | 11.19 | 12.46 | 13.58 | 14.60 | 15.53 | 16.40 | 17.20 | |
| 0.90 | 1.00 | 2 | 6.33 | 9.88 | 12.06 | 13.89 | 15.46 | 16.85 | 18.11 | 19.27 | 20.34 | 21.34 | |
| 0.95 | 1.00 | 2 | 6.79 | 10.67 | 12.88 | 15.01 | 16.70 | 18.21 | 19.58 | 20.83 | 21.98 | 23.06 | |
| 1.00 | 1.20 | 2 | 7.96 | 12.53 | 15.26 | 17.15 | 19.08 | 20.80 | 22.36 | 23.79 | 25.12 | 26.35 | |
| 1.05 | 1.20 | 2 | 8.58 | 13.57 | 16.55 | 19.02 | 21.16 | 23.07 | 24.80 | 26.39 | 27.86 | 29.22 | |
| 1.10 | 1.40 | 2 | 9.81 | 15.38 | 18.73 | 21.52 | 23.95 | 26.11 | 28.07 | 29.87 | 31.52 | 33.07 | |
| 1.15 | 1.40 | 2 | 10.42 | 16.38 | 19.97 | 22.95 | 25.54 | 27.84 | 29.93 | 31.85 | 33.62 | 35.26 | |
| 1.20 | 1.80 | 2 | 12.07 | 18.83 | 22.99 | 26.42 | 29.40 | 32.05 | 34.45 | 36.66 | 38.69 | 40.59 | |
| 1.25 | 1.80 | 2 | 13.13 | 20.53 | 24.97 | 28.70 | 31.93 | 34.82 | 37.43 | 39.82 | 42.03 | 44.09 | |
| 1.30 | 2.40 | 2 | 14.04 | 23.08 | 28.15 | 32.35 | 36.00 | 39.25 | 42.19 | 44.89 | 47.38 | 49.70 | |
| 1.35 | 2.40 | 2 | 15.69 | 24.68 | 29.98 | 34.45 | 38.34 | 41.80 | 44.93 | 47.81 | 50.46 | 52.93 | |
| 1.40 | 2.40 | 2 | 18.24 | 28.68 | 34.96 | 40.18 | 44.71 | 48.75 | 52.40 | 55.75 | 58.85 | 61.93 | |
| 1.45 | 2.60 | 2 | 19.41 | 30.52 | 37.21 | 42.77 | 47.59 | 51.88 | 55.78 | 59.34 | 62.64 | 65.71 | |
| 1.50 | 2.60 | 2 | 20.84 | 32.77 | 39.95 | 45.91 | 51.09 | 55.70 | 59.88 | 63.71 | 67.25 | 70.54 | |
| 1.55 | 2.80 | 2 | 22.21 | 34.92 | 42.57 | 48.92 | 54.44 | 59.35 | 63.80 | 67.88 | 71.66 | 75.17 | |
| 1.60 | 2.80 | 2 | 23.61 | 37.13 | 45.27 | 52.03 | 57.90 | 63.12 | 67.86 | 72.19 | 76.20 | 79.94 | |
| 1.65 | 3.00 | 2 | 25.07 | 39.42 | 48.05 | 55.23 | 61.46 | 67.01 | 72.03 | 76.63 | 80.89 | 84.85 | |
| 1.70 | 3.00 | 2 | 26.56 | 41.77 | 50.92 | 58.52 | 65.13 | 71.00 | 76.33 | 81.21 | 85.72 | 89.92 | |
| 1.75 | 3.00 | 2 | 28.10 | 44.19 | 53.87 | 61.92 | 68.90 | 75.12 | 80.75 | 85.92 | 90.69 | 95.13 | |
| 1.85 | 3.20 | 2 | 31.31 | 49.24 | 60.02 | 68.99 | 76.77 | 83.70 | 89.97 | 95.73 | 101.05 | 106.00 | |
| 1.90 | 3.00 | 4 | 32.98 | 51.86 | 63.23 | 72.67 | 80.86 | 88.16 | 94.77 | 100.83 | 106.43 | 111.65 | |
| 1.95 | 3.00 | 4 | 34.70 | 54.56 | 66.51 | 76.44 | 85.06 | 92.74 | 99.70 | 106.70 | 111.96 | 117.45 | |
| 2.00 | 3.00 | 4 | 34.70 | 54.56 | 66.51 | 76.44 | 85.06 | 92.74 | 99.70 | 106.07 | 111.96 | 117.45 | |
| 2.05 | 3.00 | 4 | 36.45 | 57.32 | 69.88 | 80.31 | 89.37 | 97.44 | 104.74 | 111.44 | 117.63 | 123.39 | |
| 2.10 | 3.00 | 4 | 38.25 | 60.15 | 73.33 | 84.28 | 93.78 | 102.25 | 109.91 | 116.94 | 123.44 | 129.48 | |
| 2.15 | 3.20 | 4 | 40.09 | 63.05 | 76.86 | 88.34 | 98.30 | 107.17 | 115.21 | 122.58 | 129.39 | 135.72 | |
| 2.20 | 3.20 | 4 | 41.98 | 66.01 | 80.48 | 92.49 | 102.93 | 112.22 | 120.63 | 128.34 | 135.47 | 142.11 | |
| 2.25 | 3.20 | 4 | 43.91 | 69.05 | 84.18 | 96.75 | 107.66 | 117.38 | 126.18 | 134.24 | 141.70 | 148.64 | |
| 2.30 | 3.20 | 4 | 45.88 | 72.15 | 87.96 | 101.09 | 112.49 | 122.65 | 131.85 | 140.28 | 148.07 | 155.32 | |
| 2.35 | 3.20 | 4 | 47.90 | 75.32 | 91.82 | 105.54 | 117.44 | 128.04 | 137.64 | 146.44 | 154.58 | 162.15 | |
| 2.40 | 3.20 | 4 | 49.96 | 78.56 | 95.77 | 110.07 | 122.49 | 133.55 | 143.56 | 152.74 | 161.22 | 169.12 | |
| 2.45 | 3.20 | 4 | 52.06 | 81.87 | 99.81 | 114.71 | 127.65 | 139.17 | 149.61 | 159.17 | 168.01 | 176.24 | |
| 2.50 | 3.20 | 4 | 54.21 | 85.24 | 103.92 | 119.44 | 132.91 | 144.91 | 155.77 | 165.73 | 174.94 | 183.51 | |
| 2.55 | 3.50 | 4 | 56.40 | 88.69 | 108.12 | 124.26 | 138.28 | 150.76 | 162.07 | 172.43 | 182.01 | 190.92 | |
| 2.60 | 3.50 | 4 | 58.64 | 92.20 | 112.40 | 129.18 | 143.76 | 156.73 | 168.48 | 179.26 | 189.21 | 198.48 | |
| 2.65 | 3.50 | 4 | 60.91 | 95.78 | 116.77 | 134.20 | 149.34 | 162.82 | 175.03 | 186.22 | 196.56 | 206.19 | |
| 2.70 | 3.50 | 4 | 63.23 | 99.43 | 121.21 | 139.21 | 155.03 | 169.02 | 181.69 | 193.31 | 204.05 | 214.05 | |
| 2.75 | 3.50 | 4 | 65.60 | 103.15 | 125.74 | 144.52 | 160.82 | 175.34 | 188.49 | 200.54 | 211.68 | 222.05 | |
| 2.80 | 3.50 | 4 | 68.00 | 106.93 | 130.36 | 149.82 | 166.72 | 181.77 | 195.40 | 207.89 | 219.44 | 230.19 | |

INSTRUCTION

When manually operating high pressure guns and lances the repulsive force on the axis should not exceed 250N! If the repulsive force exceed 150N, a support / body armour is required!

| | |
|--|---------|
| | < 150 N |
| | < 250 N |
| | > 250 N |