

— Ceramic nozzles

Ceramic nozzle 972-cer

The high-performance ceramic nozzle type 972-cer was designed for multiple tools such as spray or nozzle bars, but can also be used as a nozzle insert in rotary nozzles or for hand lance operation. mvt ceramic nozzles have a nozzle factor of 0.95. **A major advantage is that the ceramic insert cannot burst and the service life of these nozzles is much longer than that of sapphire.** According to our experience, a service life of up to 150 hours can be achieved with a constant operating pressure of 2500 bar, provided that all components such as filters, connections and water are 100% in order.

The nozzle neck is manufactured very precisely and has a perfect concentricity with the sealing edge. The 56° sealing edge has no rounding or double angles and has a greater wall thickness than conventional nozzles. Therefore, there can be no deformation of the nozzle body at the sealing edge.

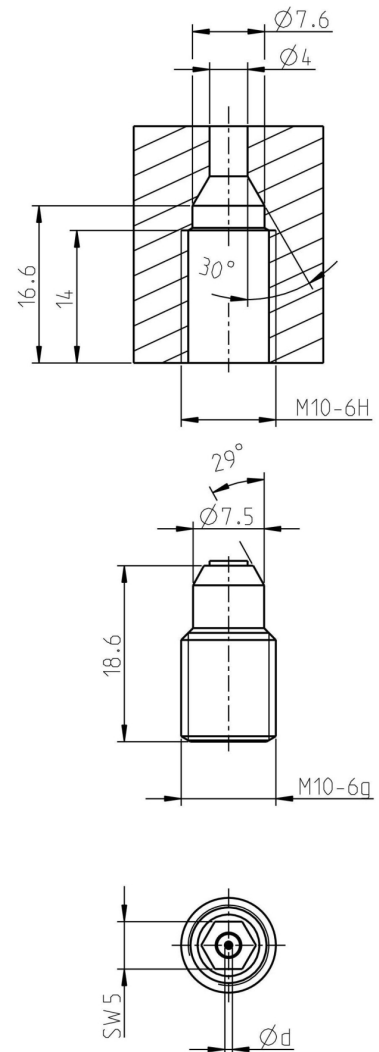
The core component, the ceramic insert, is manufactured entirely at mvt AG, thus ensuring consistent and high quality. All ceramic inserts are checked for scratches, cracks and flow.

This product is compatible with the following brands or products:

- Series 3546/3024
- OS6™
- UHP-X

Features and benefits

- Long service life
- Constant jet quality
- Highly concentrated water jet
- Point jet with high energy density
- Easy installation and removal
- Swiss quality



Applications

- Automotive and aviation industry
- Construction industry
- Concrete removal
- Machine and apparatus construction
- Surface treatment
- Offshore applications
- Cement and concrete industry
- Surface cleaning
- Industrial cleaning
- Spray bars

Specifications



Operating pressure (bar)
max.

3000



Operating temperature (°C)
max.

150



Tightening torque (Nm)

max. 40

ART. NO.	NOZZLE SIZE in US Gal/ min at 40 psi	NOZZLES Ød mm	PRESSURE in psi / bar						
			psi14500	psi21750	psi25375	psi29000	psi31900	psi36250	psi43500
			bar1000	bar1500	bar1750	bar2000	bar2200	bar2500	bar3000
			FLOW RATE in l/min						
31250.0150	0006	0.15	0.442	0.537	0.578	0.616	0.644	0.684	0.744
31250.0200	0011	0.20	0.786	0.955	1.028	1.095	1.145	1.215	1.322
31250.0250	0017	0.25	1.228	1.492	1.606	1.710	1.789	1.899	2.066
31250.0300	0024	0.30	1.769	2.149	2.312	2.463	2.576	2.734	2.975
31250.0350	0033	0.35	2.407	2.925	3.147	3.352	3.506	3.722	4.050
31250.0400	0043	0.40	3.144	3.820	4.111	4.379	4.579	4.861	5.289
31250.0450	0055	0.45	3.979	4.835	5.203	5.542	5.795	6.152	6.694
31250.0500	0067	0.50	4.913	5.969	6.423	6.841	7.155	7.595	8.264
31250.0550	0082	0.55	5.944	7.223	7.772	8.278	8.657	9.190	10.000

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!

	< 150 N
	< 250 N
	> 250 N