SAPPHIRE NOZZLE 964

The high performance sapphire nozzle type 964 is used first and foremost by our customers for surface treatment. This model was designed as a pointed nozzle for hand lance operation, or as an insert for a rotary nozzle for paint stripping on ships, or as an insert for spray-bars. Experience has shown that the flow straighteners you can achieve 10% more performance with this nozzle.

The nozzle is characterized above all by its service life, efficiency and quality and can be used up to an operating pressure of 3000 bar. The nozzle body consists of a one-piece construction with rolled thread and formed/forged hexagon socket. This manufacturing process gives our nozzle bodies higher strength reserves compared to one-piece/clamping parts.

The nozzle neck is manufactured very precisely and has a perfect concentricity with the sealing edge. The 39° sealing edge has no roundings or double angles and a greater wall thickness than conventional nozzles. Therefore there can be no deformation of the nozzle body at the sealing edge.

The heart of the nozzle, its the sapphire has a consistent and high quality. All sapphire are checkedfor scratches, cracks and flow.

This nozzle was subjected to a burst and pressure test by an accredited testing laboratory STS 0052 according to harmonized standard EN 12162+A1:2009 and withstood the 30 minute load of 3930 bar.

This product is compatible with the following brands or products.
- Style 9 - From 21LL

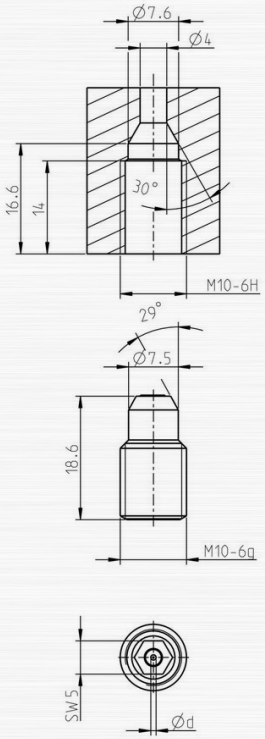
PROPERTIES AND ADVANTAGES

- LONG LIFETIME
- CONSTANT JET QUALITY
- HIGH-POWER AND FOCUSED WATER JET
- NEEDLE JET WITH HIGH ENERGY DENSITY
- EASY TO INSTALL AND DISASSEMBLE
- SWISS QUALITY

SAPPHIRE INSERT NOZZLE 964

APPLICATIONS

- CONSTRUCTION INDUSTRY
- CONCRETE DEMOLITION
- MINING
- MECHANICAL AND APPARATUS ENGINEERING
- SURFACE TREATMENT
- OFFSHORE DEPLOYMENT
- SHIPBUILDING
- PAINT REMOVAL
- INDUSTRIAL CLEANING
- SPRAYBARS



CHARACTERISTICS	TYPE
	964
Operating pressure (bar)	max. 3000
Operating temp. (°C)	max. 150°
Tightening torque (Nm)	max. 25°

PERFORMANCES

ART. NO	NOZZLE SIZE IN US GAL/MIN AT 40 PSI	NOZZLE ØD MM	PRESSURE IN PSI / BAR							
			psi 2900	psi 7250	psi 10875	psi 14500	psi 21750	psi 29000	psi 36250	psi 43500
			bar 200	bar 500	bar 750	bar 1000	bar 1500	bar 2000	bar 2500	bar 3000
			FLOW RATE IN L/MIN							
964.010	0002	0.10	0.064	0.100	0.122	0.141	0.171	0.196	0.217	0.237
964.0125	0003	0.125	0.100	0.157	0.191	0.220	0.267	0.306	0.340	0.370
964.015	0004	0.15	0.143	0.226	0.275	0.316	0.385	0.441	0.489	0.532
965.0175	0006	0.175	0.195	0.307	0.375	0.431	0.523	0.600	0.666	0.725
964.020	0008	0.20	0.255	0.401	0.489	0.563	0.684	0.784	0.870	0.946
964.025	0012	0.25	0.399	0.627	0.764	0.879	1.068	1.224	1.359	1.479
964.030	0018	0.30	0.574	0.903	1.101	1.266	1.538	1.763	1.957	2.130
964.035	0025	0.35	0.804	1.265	1.542	1.774	2.155	2.470	2.742	2.984
964.040	0032	0.40	1.050	1.652	2.015	2.317	2.815	3.226	3.582	3.897
964.045	0041	0.45	1.329	2.091	2.550	2.932	3.563	4.083	4.533	4.933
964.050	0050	0.50	1.641	2.581	3.148	3.620	4.399	5.041	5.596	6.090

SAPPHIRE INSERT NOZZLE 964

ART. NO	NOZZLE SIZE IN US GAL/MIN AT 40 PSI	NOZZLE ØD MM	PRESSURE IN PSI / BAR							
			psi 2900	psi 7250	psi 10875	psi 14500	psi 21750	psi 29000	psi 36250	psi 43500
			bar 200	bar 500	bar 750	bar 1000	bar 1500	bar 2000	bar 2500	bar 3000
			FLOW RATE IN L/MIN							
964.055	0061	0.55	1.986	3.123	3.809	4.380	5.322	6.100	6.772	7.368
964.060	0073	0.60	2.363	3.717	4.533	5.213	6.334	7.259	8.059	8.769
964.065	0085	0.65	2.773	4.362	5.320	6.118	7.434	8.519	9.458	10.291
964.070	0099	0.70	3.217	5.059	6.170	7.095	8.621	9.881	10.969	11.936
964.075	0114	0.75	3.692	5.808	7.083	8.145	9.897	11.342	12.592	13.702
964.080	0131	0.80	4.261	6.702	8.174	9.399	11.421	13.090	14.531	15.812
964.085	0148	0.85	4.810	7.566	9.228	10.611	12.893	14.777	16.404	17.850
964.090	0166	0.90	5.393	8.483	10.345	11.896	14.455	16.566	18.391	20.012
964.095	0187	0.95	6.094	9.584	11.689	13.441	16.332	18.718	20.780	22.611
964.100	0213	1.00	6.939	10.915	13.311	15.307	18.600	21.317	23.664	25.750
964.110	0258	1.10	8.397	13.207	16.107	18.522	22.505	25.793	28.634	31.158
964.120	0307	1.20	9.993	15.717	19.168	22.042	26.783	30.696	34.077	37.080
964.130	0361	1.30	11.728	18.446	22.496	25.869	31.433	36.025	39.993	43.518
964.140	0418	1.40	13.601	21.393	26.090	30.002	36.455	41.780	46.382	50.470
964.150	0480	1.50	15.614	24.558	29.950	34.441	41.849	47.962	53.245	57.938
964.160	0546	1.60	17.765	27.942	34.077	39.187	47.615	54.570	60.581	65.920
964.170	0617	1.70	20.055	31.544	38.470	44.238	53.753	61.605	68.390	74.418
964.180	0692	1.80	22.484	35.364	43.129	49.596	60.263	69.066	76.673	83.431
964.190	0771	1.90	25.051	39.402	48.054	55.259	67.144	76.953	85.428	92.958
964.200	0854	2.00	27.758	43.659	53.245	61.229	74.398	85.266	94.658	103.001
964.210	0941	2.10	30.603	48.134	58.703	67.505	82.024	94.006	104.360	113.558
964.220	1103	2.20	35.856	56.397	68.780	79.093	96.104	110.143	122.274	133.052
964.230	1205	2.30	39.190	61.641	75.175	86.447	105.040	120.384	133.643	145.422

	< 150 N
	< 250 N
	> 250 N

INSTRUCTIONS

WHEN MANUALLY OPERATING HIGH PRESSURE GUNS AND LANCES THE REPULSIVE FORCE ON THE AXIS SHOULD NOT EXCEED 250N! IF THE REPULSIVE FORCE EXCEEDS 150N, A SUPPORT / BODY ARMOUR IS REQUIRED!

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