

SAPPHIRE NOZZLE 972

The sapphire nozzle type 972 was designed to be used as a pointed nozzle for hand lances, or as an insert for rotary nozzles, or as an insert for spray-bars. 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 neck is manufactured very precisely and has a perfect concentricity with the sealing edge. The sealing edge 56° has no roundings or double angles and a greater wall thickness compared to 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 checked for scratches, cracks and flow.

This product is compatible with the following brands or products.

- Series 3546/3024
- UHP-X
- OS6tm



PROPERTIES AND ADVANTAGES

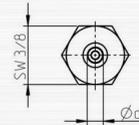
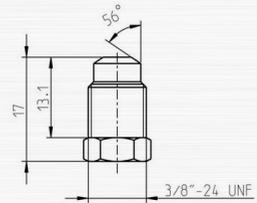
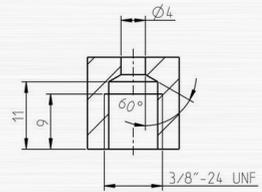
- LONG LIFETIME
- CONSTANT JET QUALITY
- HIGH-POWER AND FOCUSED WATER JET
- NEEDLE JET WITH HIGH ENERGY DENSITY
- EASY TO INSTALL AND DISASSEMBLE
- SWISS QUALITY

CHARACTERISTICS	TYPE
Operating pressure (bar)	max. 3000
Operating temp. (°C)	max. 150°
Tightening torque (Nm)	max. 40°

SAPPHIRE INSERT NOZZLE 972

APPLICATIONS

- AUTOMOBILE AND AIRCRAFT INDUSTRY
- CONSTRUCTION INDUSTRY
- CONCRETE DEMOLITION
- MECHANICAL AND APPARATUS ENGINEERING
- SURFACE TREATMENT
- OFFSHORE DEPLOYMENT
- CEMENT AND CONCRETE INDUSTRY
- SURFACE CLEANING
- INDUSTRIAL CLEANING
- SPRAYBARS



PERFORMANCES

ART. NO	NOZZLE SIZE IN US GAL/MIN AT 40 PSI	NOZZLE ØD MM	PRESSURE IN PSI / BAR								
			psi	psi	psi	psi	psi	psi	psi	psi	psi
			2900	7250	10875	14500	21750	29000	36250	43500	
			bar	bar	bar	bar	bar	bar	bar	bar	
			200	500	750	1000	1500	2000	2500	3000	
FLOW RATE IN L/MIN											
972.010	0002	0.10	0.064	0.100	0.122	0.141	0.171	0.196	0.217	0.237	
972.0125	0003	0.125	0.100	0.157	0.191	0.220	0.267	0.306	0.340	0.370	
972.015	0004	0.15	0.143	0.226	0.275	0.316	0.385	0.441	0.489	0.532	
972.0175	0006	0.175	0.195	0.307	0.375	0.431	0.523	0.600	0.666	0.725	
972.020	0008	0.20	0.255	0.401	0.489	0.563	0.684	0.784	0.870	0.946	
972.025	0012	0.25	0.399	0.627	0.764	0.879	1.068	1.224	1.359	1.479	
972.030	0018	0.30	0.574	0.903	1.101	1.266	1.538	1.763	1.957	2.130	
972.035	0025	0.35	0.804	1.265	1.542	1.774	2.155	2.470	2.742	2.984	
972.040	0032	0.40	1.050	1.652	2.015	2.317	2.815	3.226	3.582	3.897	
972.045	0041	0.45	1.329	2.091	2.550	2.932	3.563	4.083	4.533	4.933	
972.050	0050	0.50	1.641	2.581	3.148	3.620	4.399	5.041	5.596	6.090	

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			psi	psi	psi	psi	psi	psi	psi	psi	
			2900	7250	10875	14500	21750	29000	36250	43500	
			bar	bar	bar	bar	bar	bar	bar	bar	
			FLOW RATE IN L/MIN								
			200	500	750	1000	1500	2000	2500	3000	
972.055	0061	0.55	1.986	3.123	3.809	4.380	5.322	6.100	6.772	7.368	
972.060	0073	0.60	2.363	3.717	4.533	5.213	6.334	7.259	8.059	8.769	
972.065	0085	0.65	2.773	4.362	5.320	6.118	7.434	8.519	9.458	10.291	
972.070	0099	0.70	3.217	5.059	6.170	7.095	8.621	9.881	10.969	11.936	
972.075	0114	0.75	3.692	5.808	7.083	8.145	9.897	11.342	12.592	13.702	
972.080	0131	0.80	4.261	6.702	8.174	9.399	11.421	13.090	14.531	15.812	
972.085	0148	0.85	4.810	7.566	9.228	10.611	12.893	14.777	16.404	17.850	
972.090	0166	0.90	5.393	8.483	10.345	11.896	14.455	16.566	18.391	20.012	
972.095	0187	0.95	6.094	9.584	11.689	13.441	16.332	18.718	20.780	22.611	
972.100	0213	1.00	6.939	10.915	13.311	15.307	18.600	21.317	23.664	25.750	
972.110	0258	1.10	8.397	13.207	16.107	18.522	22.505	25.793	28.634	31.158	
972.120	0307	1.20	9.993	15.717	19.168	22.042	26.783	30.696	34.077	37.080	
972.130	0361	1.30	11.728	18.446	22.496	25.869	31.433	36.025	39.993	43.518	
972.140	0418	1.40	13.601	21.393	26.090	30.002	36.455	41.780	46.382	50.470	
972.150	0480	1.50	15.614	24.558	29.950	34.441	41.849	47.962	53.245	57.938	
972.160	0546	1.60	17.765	27.942	34.077	39.187	47.615	54.570	60.581	65.920	
972.170	0617	1.70	20.055	31.544	38.470	44.238	53.753	61.605	68.390	74.418	
972.180	0692	1.80	22.484	35.364	43.129	49.596	60.263	69.066	76.673	83.431	
972.190	0771	1.90	25.051	39.402	48.054	55.259	67.144	76.953	85.428	92.958	
972.200	0854	2.00	27.758	43.659	53.245	61.229	74.398	85.266	94.658	103.001	
972.210	0941	2.10	30.603	48.134	58.703	67.505	82.024	94.006	104.360	113.558	
972.220	1103	2.20	35.856	56.397	68.780	79.093	96.104	110.143	122.274	133.052	
972.230	1205	2.30	39.190	61.641	75.175	86.447	105.040	120.384	133.643	145.422	
972.240	1313	2.40	42.672	67.117	81.854	94.127	114.372	131.080	145.517	158.343	
972.250	1424	2.50	46.302	72.827	88.817	102.135	124.102	142.230	157.896	171.813	
972.260	1540	2.60	50.080	78.770	96.064	110.469	134.228	153.836	170.780	185.833	
972.270	1661	2.70	54.007	84.945	103.596	119.130	144.752	165.898	184.170	200.402	
972.280	1786	2.80	58.081	91.354	111.412	128.118	155.673	178.414	198.064	215.522	
972.290	1917	2.90	62.304	97.996	119.512	137.432	166.991	191.385	212.465	231.191	
972.300	2051	3.00	66.675	104.871	127.896	147.074	178.707	204.812	227.370	247.410	

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!

	< 150 N
	< 250 N
	> 250 N



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