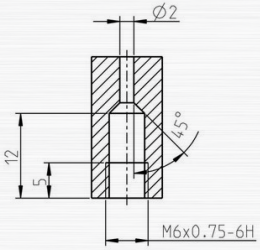
SAPPHIRE NOZZLE 165

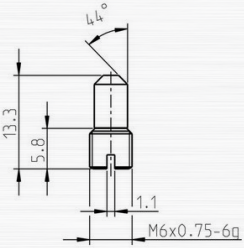
The sapphire nozzle type 165 can be used with the optional steel Inox seal up to an operating pressure of 2500 bar. With the brass seal, an operating pressure of 1000 bar is permitted. This nozzle is used in industrial cleaning or general surface treatment. The sapphire and the nozzle body are manufactured and processed in-house. The nozzle has a cone seal and has a sealing angle of 44°.

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



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



APPLICATIONS

- AUTOMOBILE AND AIRCRAFT INDUSTRY
- CONSTRUCTION INDUSTRY
- MINING
- CHEMICAL INDUSTRY
- IRON, STEEL AND METAL INDUSTRIES
- ENERGY INDUSTRY
- BEVERAGE INDUSTRY
- GLASS, PORCELAIN AND CERAMIC INDUSTRIES.
- LUMBER INDUSTRY
- MUNICIPAL OPERATIONS
- AGRICULTURE
- MECHANICAL AND APPARATUS ENGINEERING
- OFFSHORE DEPLOYMENT
- SHIPBUILDING

SAPPHIRE NOZZLE 030

PERFORMANCES

ART. NO	NOZZLE SIZE IN US GAL/MIN AT 40 PSI	NOZZLE ØD MM	PRESSURE IN PSI / BAR						
			psi 2900 / bar 200	psi 7250 / bar 500	psi 10875 / bar 750	psi 14500 / bar 1000	psi 21750 / bar 1500	psi 29000 / bar 2000	psi 36250 / bar 2500
			FLOW RATE IN L/MIN						
165.010	0002	0.10	0.064	0.100	0.122	0.141	0.171	0.196	0.217
165.0125	0003	0.125	0.100	0.157	0.191	0.220	0.267	0.306	0.340
165.015	0004	0.15	0.143	0.226	0.275	0.316	0.385	0.441	0.489
165.0175	0006	0.175	0.195	0.307	0.375	0.431	0.523	0.600	0.666
165.020	0008	0.20	0.255	0.401	0.489	0.563	0.684	0.784	0.870
165.025	0012	0.25	0.399	0.627	0.764	0.879	1.068	1.224	1.359
165.030	0018	0.30	0.574	0.903	1.101	1.266	1.538	1.763	1.957
165.035	0024	0.35	0.781	1.229	1.498	1.723	2.094	2.400	2.664
165.040	0031	0.40	1.020	1.605	1.957	2.251	2.735	3.134	3.479
165.045	0040	0.45	1.291	2.031	2.477	2.848	3.461	3.967	4.403
165.050	0049	0.50	1.594	2.507	3.058	3.517	4.273	4.897	5.436
165.055	0059	0.55	1.929	3.034	3.700	4.255	5.170	5.925	6.578
165.060	0071	0.60	2.296	3.611	4.404	5.064	6.153	7.052	7.828
165.065	0083	0.65	2.694	4.238	5.168	5.943	7.221	8.276	9.188
165.070	0096	0.70	3.125	4.915	5.994	6.892	8.375	9.598	10.655
165.075	0110	0.75	3.587	5.642	6.880	7.912	9.614	11.018	12.232
165.080	0125	0.80	4.081	6.419	7.828	9.002	10.939	12.536	13.917
165.085	0142	0.85	4.607	7.247	8.838	10.163	12.349	14.152	15.711
165.090	0159	0.90	5.165	8.124	9.908	11.394	13.844	15.866	17.614
165.095	0177	0.95	5.755	9.052	11.039	12.695	15.425	17.678	19.625
165.100	0196	1.00	6.377	10.030	12.232	14.066	17.091	19.588	21.746
165.110	0237	1.10	7.716	12.136	14.801	17.020	20.681	23.702	26.312
165.120	0283	1.20	9.183	14.443	17.614	20.255	24.612	28.207	31.314
165.130	0332	1.30	10.777	16.950	20.672	23.772	28.885	33.104	36.750
165.140	0384	1.40	12.498	19.658	23.975	27.570	33.499	38.393	42.621
165.150	0441	1.50	14.348	22.567	27.522	31.649	38.456	44.073	48.928

Gasket Sold Separately

ART. NO.	MATERIAL	MAX. PRESSURE (BAR)
10025	Steel Inox	2500
10024	Brass	1500

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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