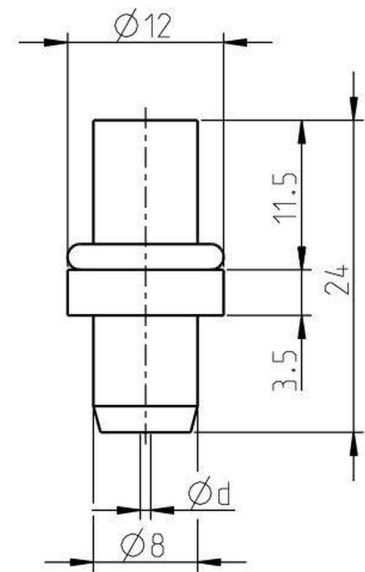


— Sapphire plug-in nozzles

Sapphire insert nozzle 916

The high-performance sapphire plug-in nozzle type 916 was designed for hand lance use. 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. Thanks to its advantageous shape, this nozzle can be easily mounted on the hand lance using our union nut. The heart of the nozzle, the nozzle stone, is manufactured entirely at mvt AG, thus guaranteeing consistent and high quality. All nozzle stones are checked for scratches, cracks and flow. This product is compatible with the following brands or products:

- Style 5
- Type A
- Type B
- Shape 4



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

- Foodstuffs
- Plastics
- Construction industry
- Mining
- Concrete removal
- Surface treatment
- Offshore applications

Specifications



**Operating pressure (bar)
max.**

3000



**Operating temperature (°C)
max.**

150

ART. NO.	NOZZLE SIZE in US Gal/min at 40 psi	NOZZLES Ød mm	PRESSURE in psi / bar					
			psi7250	psi10875	psi14500	psi21750	psi36250	psi43500
			bar500	bar750	bar1000	bar1500	bar2500	bar3000
			FLOW RATE in l/min					
31238.0100	0002	0.10	0.100	0.122	0.141	0.171	0.217	0.237
31238.0125	0003	0.125	0.157	0.191	0.220	0.267	0.340	0.370
31238.0150	0004	0.15	0.226	0.275	0.316	0.385	0.489	0.532
31238.0175	0006	0.175	0.307	0.375	0.431	0.523	0.666	0.725
31238.0200	0008	0.20	0.401	0.489	0.563	0.684	0.870	0.946
31238.0250	0012	0.25	0.627	0.764	0.879	1.068	1.359	1.479
31238.0300	0018	0.30	0.903	1.101	1.266	1.538	1.957	2.130
31238.0350	0025	0.35	1.265	1.542	1.774	2.155	2.742	2.984
31238.0400	0032	0.40	1.652	2.015	2.317	2.815	3.582	3.897
31238.0450	0041	0.45	2.091	2.550	2.932	3.563	4.533	4.933
31238.0500	0050	0.50	2.581	3.148	3.620	4.399	5.596	6.090
31238.0550	0061	0.55	3.123	3.809	4.380	5.322	6.772	7.368
31238.0600	0072	0.60	3.717	4.533	5.213	6.334	8.059	8.769
31238.0650	0085	0.65	4.362	5.320	6.118	7.434	9.458	10.291
31238.0700	0098	0.70	5.059	6.170	7.095	8.621	10.969	11.936
31238.0750	0113	0.75	5.808	7.083	8.145	9.897	12.592	13.702
31238.0800	0130	0.80	6.702	8.174	9.399	11.421	14.531	15.812
31238.0850	0147	0.85	7.566	9.228	10.611	12.893	16.404	17.850
31238.0900	0165	0.90	8.483	10.345	11.896	14.455	18.391	20.012
31238.0950	0186	0.95	9.584	11.689	13.441	16.332	20.780	22.611
31238.1000	0207	1.00	10.620	12.952	14.894	18.097	23.025	25.054
31238.1100	0250	1.10	12.850	15.671	18.021	21.897	27.860	30.316

ART. NO.	NOZZLE SIZE in US Gal/min at 40 psi	NOZZLES Ød mm	PRESSURE in psi / bar					
			psi7250	psi10875	psi14500	psi21750	psi36250	psi43500
			bar500	bar750	bar1000	bar1500	bar2500	bar3000
			FLOW RATE in l/min					
31238.1200	0297	1.20	15.293	18.650	21.447	26.059	33.156	36.078
31238.1300	0349	1.30	17.947	21.888	25.170	30.584	38.912	42.342
31238.1400	0405	1.40	20.815	25.385	29.191	35.470	45.129	49.106
31238.1500	0465	1.50	23.895	29.141	33.510	40.718	51.806	56.372
31238.1600	0536	1.60	27.564	33.616	38.657	46.971	59.762	65.030
31238.1700	0605	1.70	31.118	37.950	43.640	53.026	67.466	73.412
31238.1800	0679	1.80	34.886	42.546	48.925	59.448	75.636	82.303
31238.1900	0756	1.90	38.870	47.404	54.512	66.237	84.274	91.702
31238.2000	0861	2.00	44.249	53.965	62.056	75.404	95.937	104.393
31238.2100	0974	2.10	50.086	61.083	70.242	85.349	108.591	118.162
31238.2200	1097	2.20	56.397	68.780	79.093	96.104	122.274	133.052
31238.2300	1199	2.30	61.641	75.175	86.447	105.040	133.643	145.422
31238.2400	1306	2.40	67.117	81.854	94.127	114.372	145.517	158.343
31238.2500	1417	2.50	72.827	88.817	102.135	124.102	157.896	171.813
31238.2600	1532	2.60	78.770	96.064	110.469	134.228	170.780	185.833
31238.2700	1653	2.70	84.945	103.596	119.130	144.752	184.170	200.402
31238.2800	1777	2.80	91.354	111.412	128.118	155.673	198.064	215.522
31238.2900	1906	2.90	97.996	119.512	137.432	166.991	212.465	231.191
31238.3000	2040	3.00	104.871	127.896	147.074	178.707	227.370	247.410

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!