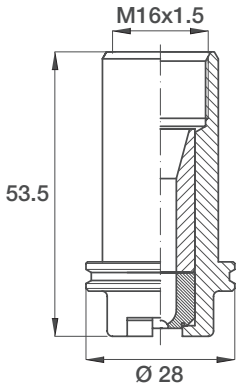


HIGH IMPACT NOZZLE TIPS, STANDARD-SIZED

The internal profile leading to the outlet has been completely redesigned: all the sharp variations of the flow passage section were eliminated to reduce to a minimum the losses due to turbulence and get the maximum exit speed. This special design, with the flow stabilizer already mounted on the tip, allows to obtain excellent results. It's also possible to mount a filter onto the inlet of the flow stabilizer.



MATERIALS

B1	Body	Stainless steel AISI 303
C1	Insert	Stainless steel AISI 420 hardened
F1	Insert	Tungsten carbide

HOW TO ORDER PNR PRODUCTS

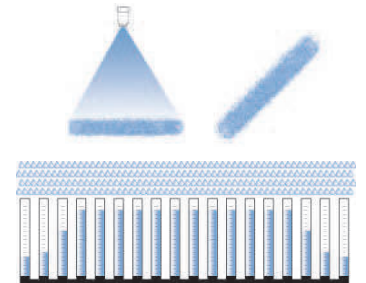
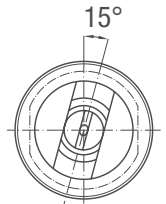
Model	Angle	Capacity	Material
HW/AK	C	2045	XX

Order example: **HWC 2045 F1AK**

SPRAY ANGLE CODES

HWC	HWE	HWF	HWL
22°	26°	30°	40°

OFFSET ANGLE



DISASSEMBLY KIT FOR NOZZLE TIPS

Because of the strong tightening, the extraction of the tips from the nipple is not always easy and can cause damage to either party. The disassembly kit HWZ 05B0 B1 allows a safe grip on the nozzle and makes it easier to apply the tensile force required for its extraction.



ALIGNMENT NOZZLES

The blind nozzle tip HWZ 01 C1 allows to position the nipples onto the manifold very precisely during the welding phase through a bar which keeps the millings in line. Ask for the technical data sheet to select the correct tip for the required alignment angle.

CONVERSION TABLE (UE - USA)

PRESSURE: 1 bar = 14,5 psi **CAPACITY: 1 lpm = 0,264 gpm**

See list of abbreviations - legenda at page 3.

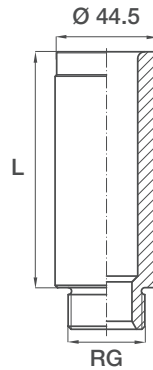
Code	D	D1	Capacity - lpm									
			Pressure - bar									
			80	100	140	200	240	280	300	340	380	400
2045 xxAK	0.7	0.6	4.5	5	5.9	7.2	7.8	8.5	8.7	9.3	9.8	10
2063 xxAK	1	0.8	6.3	7	8.3	10	10.9	11.8	12.2	13	13.7	14.1
2106 xxAK	1.5	1.2	10.6	11.9	14.2	16.8	18.4	19.8	20.5	21.8	23.1	23.7
2134 xxAK	1.8	1.4	13.4	15.0	17.7	21.2	23.2	25.0	25.9	27.6	29.2	29.9
2162 xxAK	2.0	1.5	16.2	18.1	21.4	25.6	28.0	30.3	31.4	33.4	35.3	36.2
2208 xxAK	2.1	1.8	20.8	23.3	27.5	32.9	36.0	38.9	40.2	42.9	45.3	46.5
2250 xxAK	2.5	1.9	25.0	28.0	33.0	39.5	43.3	46.8	48.4	51.6	54.5	55.9
2320 xxAK	2.8	2.4	32.0	35.8	42.3	50.6	55.4	59.9	62.0	66.0	69.7	71.6
2402 xxAK	3.0	2.5	40.2	45.0	53.2	63.6	69.6	75.2	77.8	82.9	87.6	89.9
2520 xxAK	3.5	2.7	52.0	58.1	68.8	82.2	90.0	97.3	100.7	107.2	113.3	116.3
2642 xxAK	3.8	3.2	64.2	71.8	84.9	101.5	111.2	120.1	124.3	132.3	140.0	143.6
2798 xxAK	4.3	3.6	79.8	89.2	105.6	126.0	138.2	149.3	154.5	164.5	174.0	178.4
2996 xxAK	4.7	4.0	99.6	111.3	131.8	157.5	172.5	186.3	192.8	205.3	217.0	222.7
3112 xxAK	5.0	4.2	112.0	125.2	148.2	177.0	194.0	209.5	216.9	231.0	244.0	250.4
3120 xxAK	5.2	4.4	120.0	134.2	158.7	189.7	207.8	224.5	232.4	247.4	261.5	268.3



ZWB

WELDING NIPPLES

The HW nozzles can be mounted on a series of nipples with the same nozzle connection and three different lengths. The nipple inlet profile, machined with high precision, allows an easy and precise positioning of the nozzle at the normally used offset angle value of 15° from the main manifold axis.



MATERIALS

B2	Stainless steel AISI 304
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Code	RG inch	L mm	Weight kg
ZWB 0073 B2	1	73	0.49
ZWB 0100 B2	1	100	0.71
ZWB 0120 B2	1	120	0.85

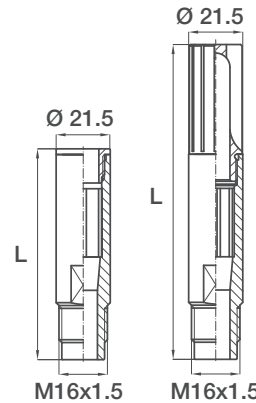


XHW

FLOW STABILIZER

Highly important in a descaling process as it reduces the losses caused by internal flow turbulence and allows a higher percentage of the liquid vein energy for a stronger impact on the steel surface. It's made of a cylindrical body in brass, accurately finished, containing a flow stabilizer with tabs in stainless steel to stabilize the liquid path.

Available in three different lengths, all suitable to house a filter.



MATERIALS

T1	Body	Brass
T1	Filter	Brass
B3	Flow Stabilizer	Stainless steel AISI 316

Code	L mm	Weight kg	Notes
XHW DG 10 T1	76	0.08	without filter
XHW DG 11 T1	96	0.10	without filter
XHW DG 20 T1	110	0.11	with filter
XHW DG 21 T1	130	0.14	with filter
XHW DG 22 T1	150	0.16	with filter

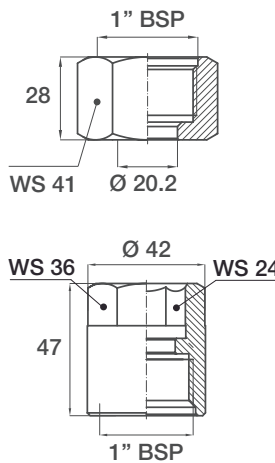


VAW B100 B1

VAW D100 B1

LOCKNUTS

The VAW B100 B1 and VAW D100 B1 locknuts for the ZWB series nozzle tips encompass our long experience in this sector. Their robust design and generous dimensions offer the maximum protection to the tip and to the nipple thread.



MATERIALS

B1	Stainless steel AISI 303
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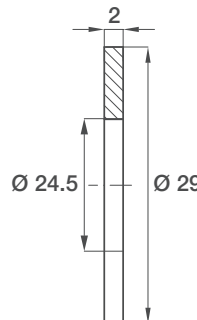
Code	Notes
VAW B100 B1	with hexagon on the outside
VAW D100 B1	with built in hexagon



VDA 24C1 T3

GASKET

The VDA 24C1 T3 gasket ensures a tight fitting between nozzle and nipple. It can be mounted on all standard size ZWB nipples.



MATERIALS

T3	Copper
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Code
VDA 24C1 T3