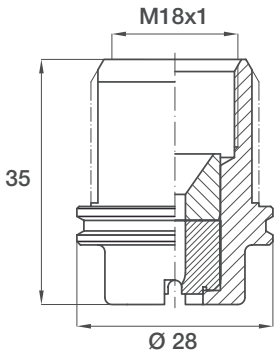


NOZZLE TIPS / SHORT, STANDARD-SIZED

The cutting-edge design of these nozzles allows a more rational positioning and the use of a copper gasket between the nozzle tip and the nipple for a perfect water-tightness. The tip is outfitted to mount a flow stabilizer and a filter which help to reduce energy losses due to turbulence and avoid that the orifice gets clogged by foreign bodies.



MATERIALS

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

HOW TO ORDER PNR PRODUCTS

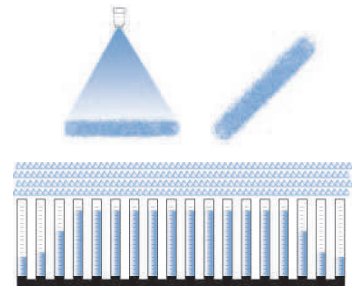
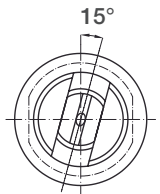
Model	Angle	Capacity	Material
HW/AH	C	2045	XX

Order example: **HWC 2045 F1AH**

SPRAY ANGLE CODES

HWC	HWE	HWF	HWL
22°	26°	30°	40°

OFFSET ANGLE



DISASSEMBLY TOOL 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 tool HWZ 05B0 B1 allows a safe grip on the nozzle and makes it easier to apply the tensile force required for its extraction. The kit is sold separately.



ALIGNMENT NOZZLES

The blind nozzle tip HWZ 01C1 B1 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 xxAH	0.7	0.6	4.5	5	5.9	7.2	7.8	8.5	8.7	9.3	9.8	10
2063 xxAH	1	0.8	6.3	7	8.3	10	10.9	11.8	12.2	13	13.7	14.1
2106 xxAH	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 xxAH	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 xxAH	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 xxAH	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 xxAH	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 xxAH	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 xxAH	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 xxAH	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 xxAH	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 xxAH	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 xxAH	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 xxAH	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 xxAH	5.2	4.4	120.0	134.2	158.7	189.7	207.8	224.5	232.4	247.4	261.5	268.3

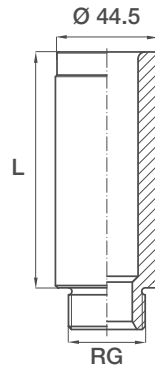


ZWB

WELDING NIPPLES

The HW nozzle can be assembled on a series of nipples with same inlet 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



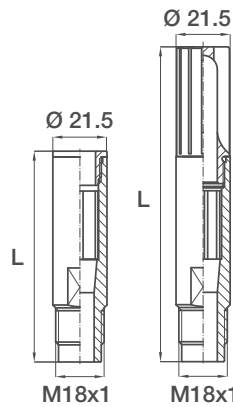
XHW

FLOW STABILIZER

Highly important in a descaling process as it reduces the losses caused by flow internal 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 CG10 T1	74	0.08	without filter
XHW CG20 T1	110.5	0.11	with filter
XHW CG21 T1	130.5	0.14	with filter



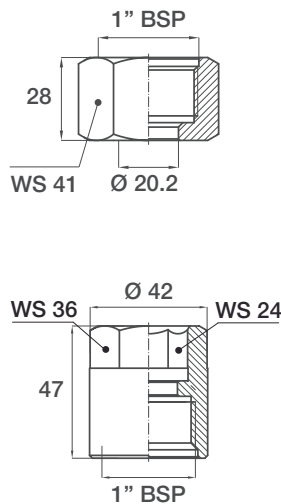
VAW B100 B1

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

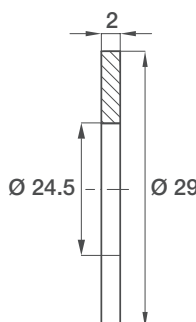


VDA 24C1 T3

GASKET

The VDA 24C1 T3 gasket ensures a tight fitting between nozzle and nipple.

It can be mounted on all mini nipples of all lengths.



MATERIALS

T3	Copper
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Code	VDA 24C1 T3
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