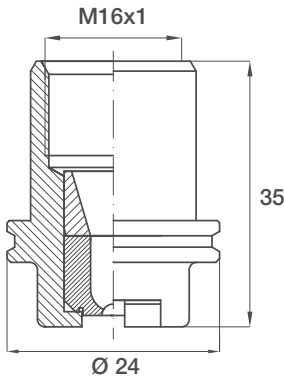


NOZZLE TIPS, MINI-SIZED

The modern design of these nozzles allows a more rational alignment in position and the use of a copper gasket between the nozzle and the nipple, for a perfect water-tightness.

The nozzle tip is outfitted to mount a flow stabilizer and a filter which allow to reduce losses of energy due to turbulence and avoid that the tip orifice gets clogged by foreign bodies.



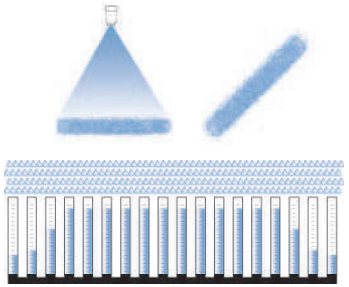
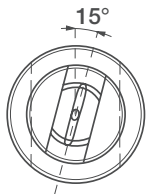
MATERIALS		
B1	Body	Stainless steel AISI 303
C1	Insert	Stainless steel AISI 420 hardened
F1	Insert	Tungsten carbide

HOW TO ORDER PNR PRODUCTS			
Model	Angle	Capacity	Material
HW/AA	C	2045	XX

Order example: **HWC 2045 F1AA**

SPRAY ANGLE CODES			
HWC	HWE	HWF	HWL
22°	26°	30°	40°

OFFSET ANGLE



DISASSEMBLY KIT

This kit allows to extract a nozzle out of a nipple much more easily, for replacement or inspection.

The clamp tip (HWZ 03C0 B1) and the handle (HWZ 04A0 B1) are sold and must be ordered separately.



ALIGNMENT NOZZLE

The alignment nozzle HWZ 01A1 B1 allows a quick and safe positioning of the nipples onto the manifold before welding. The nipples are aligned in place by means of a straight rod and then welded to ensure the correct spray direction.

Please ask for the TFI HWACC3 Technical Data Sheet to identify the part suitable to your needs.

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 xxAA	0.7	0.6	4.5	5	5.9	7.2	7.8	8.5	8.7	9.3	9.8	10
2063 xxAA	1	0.8	6.3	7	8.3	10	10.9	11.8	12.2	13	13.7	14.1
2106 xxAA	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 xxAA	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 xxAA	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 xxAA	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 xxAA	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 xxAA	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 xxAA	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 xxAA	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 xxAA	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 xxAA	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 xxAA	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 xxAA	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 xxAA	5.2	4.4	120.0	134.2	158.7	189.7	207.8	224.5	232.4	247.4	261.5	268.3

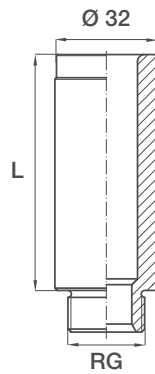


ZWA

WELDING NIPPLES

The HW nozzles can be mounted on a series of nipples with same inlet and three different lengths.

The nipple inlet profile, precisely machined, allows a precise and easy positioning of the nozzle tip at the normally used offset angle value of 15° from the main manifold axis. The precise orientation of the spray jets, kept even after replacements, ensures constant performances.



MATERIALS

B2	Stainless steel AISI 304
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Code	RG inch	L mm	Weight kg
ZWA 0032 B2	3/4	32	0.08
ZWA 0039 B2	3/4	39	0.10
ZWA 0080 B2	3/4	80	0.23



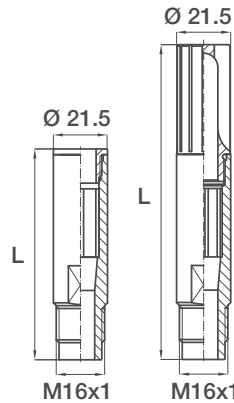
XHW

FLOW STABILIZER

Highly important in descaling processes 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 sheet surface.

It's made of a cylindrical body in brass, accurately finished, containing a flow stabilizer with tabs in stainless steel which serves to stabilize the liquid path. Available in three different lengths, all suitable to house a filter.

All below mentioned items contain a flow stabilizer with tabs ZHW AL00 B3.



MATERIALS

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

Code	L mm	Weight kg	Notes
XHW AG 10 T1	74.0	0.08	without filter
XHW AG 20 T1	110.5	0.12	with filter
XHW AG 21 T1	130.5	0.15	with filter



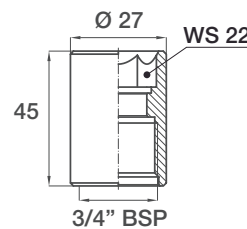
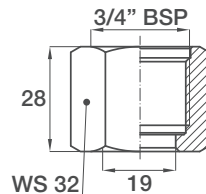
VAW A075 B1

VAW C075 B1

LOCKNUTS

The VAW A075 B1 and VAW C075 B1 locknuts for the ZWA 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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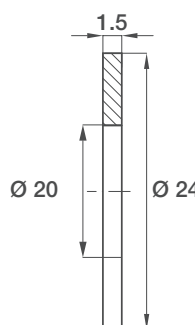
Code	Notes
VAW A075 B1	with hexagon on the outside
VAW C075 B1	with built in hexagon



VDA 20C1 T3

GASKET

The VDA 20C1 T3 gasket ensure a safe water tightness between nozzle tip and nipple and can be assembled on mini nipples of all lengths.



MATERIALS

T3	Copper
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Code
VDA 20C1 T3