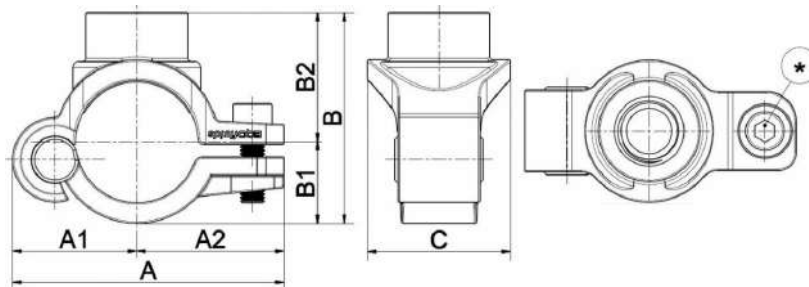


EQOair Aluminium Saddle Branch



Saddle Branch	Part Number	Ø	Fig.	A	A1	A2	B	B1	B2	C	gr.
	89.835.025.049	25x1/2"	A	62,0	25,0	37,0	51,0	17,5	33,5	33,0	71,0
	89.835.032.049	32x1/2"	A	75,0	32,0	43,0	57,5	21,5	36,0	33,0	92,0
	89.835.040.049	40x1/2"	A	89,5	41,0	48,5	69,5	27,0	42,5	47,0	163,0
	89.835.040.069	40x3/4"	A	89,5	41,0	48,5	69,5	27,0	42,5	47,0	152,0
	89.835.050.049	50x1/2"	A	102,0	46,5	55,5	84,0	32,0	52,0	47,0	217,0
	89.835.050.069	50x3/4"	A	102,0	46,5	55,5	84,0	32,0	52,0	47,0	204,0
	89.835.050.089	50x1"	A	102,0	46,5	55,5	84,0	32,0	52,0	47,0	186,0
	89.835.063.049	63x1/2"	A	122,0	58,0	64,0	99,0	40,0	59,0	58,0	367,0
	89.835.063.069	63x3/4"	A	122,0	58,0	64,0	99,0	40,0	59,0	58,0	356,0
	89.835.063.089	63x1"	A	122,0	58,0	64,0	99,0	40,0	59,0	58,0	335,0
	89.835.090.089	90x1"	A	159,5	71,5	88,0	130,0	53,0	77,0	66,0	512,0
	89.835.090.169	90x2"	A	159,5	71,5	88,0	130,0	53,0	77,0	66,0	605,0
	89.835.110.089	110x1"	A	179,5	81,0	98,0	150,0	65,0	85,0	66,0	570,0
	89.835.110.169	110x2"	A	179,5	81,0	98,0	150,0	65,0	85,0	66,0	645,0
	89.835.160.169	160X2"	A	263,0	120,5	142,5	210,5	91,5	119,0	121,0	1.927
	89.835.160.249	160X3"	A	263,0	120,5	142,5	227,0	91,5	135,5	122,0	2.015



Technical Details

	EQOair					
Standard Colour	RAL 5012					
Max Working Pressure	16 bar					
Plant Testing Pressure 1 hour at 20°C	24 bar					
Quality Testing Pressure 1 hour at 20°C	72 bar					
Production tested percentage	1%					
O.Ring & Lip Gasket Material	NBR 65/75 S.A					
Continuous Service Temperature Limit	-30°C - 120°C					
Aluminium Pipe Mechanical Resistance	According to EN-755-2/2008 standards					
Pipe Material	Aluminium alloy EN AW 6060 - T5 according to EN 755-2/2008					
Pipe Thickness mm	Tube lenght tolerance +0 -0,1%					
Aluminium Fittings Material	Aluminium Alloy EN Aw 6061 T6 / ENAB 42000					
Clamp Ring Material	AISI 304 Stainless Steel					
Threads Standards	BSPT - British standard pipe taper - ISO 7-1					
Pipe Surface treatment	Polyester resin coated					

Components



1. Offtake Piece
2. Bottom Piece
3. Gasket
4. Washer
5. Hexagon Head Socket Cap Screw

Pressure Ratings

Sizes up to 90mm x 1":	40 bar
Sizes 90mm x 2" & above:	16 bar

Preperation

Verify the integrity of the pipe section to be inserted in the fitting.
Any scratches on the paint, if not deep, can be eliminated using 300-600 fine emery paper.
Deep dents/scratches can be eliminated only by changing the branch position or by replacing the pipe section.

Verify the correct positioning of the components inside the fitting.
Fittings are supplied assembled and they have to be disassembled for the installation.
In case of accidental disassembly, check the correct assembly diagram and the position of all components as per the assembly figure above.

Saddle Branch Assembly

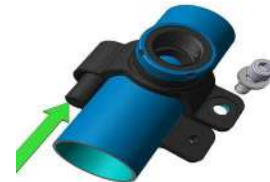
Remove the socket cap screw.



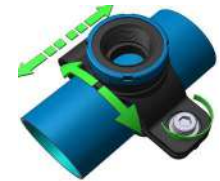
Separate the bottom & top pieces by sliding them apart.



Position the top piece over the pipe, close to its final position and insert the bottom piece by sliding it along the hinge up to align the screw holes.



Tighten the screw, but do not fully tighten it.
Move the branch to its intended final position.



Once the branch is in position, fully tighten the screw.



Use a hole saw to create a hole in the pipe wall the size of the offtake diameter.

1/2"	Ø14mm (9/16")
3/4"	Ø19mm (3/4")
1"	Ø24mm (15/16")



Eliminate the burr after sawing and carefully clean out any residue due to this operation.



Preperation

Verify the integrity of the pipe section to be inserted in the fitting.
Any scratches on the paint, if not deep, can be eliminated using 300-600 fine emery paper.
Deep dents/scratches can be eliminated only by changing the branch position or by replacing the pipe section.

When necessary, cut the pipe with a neat 90° cut. Carefully deburring the internal and external sharp resulting edges and make an external bevel of 2-4 mm length with a 30° taper.

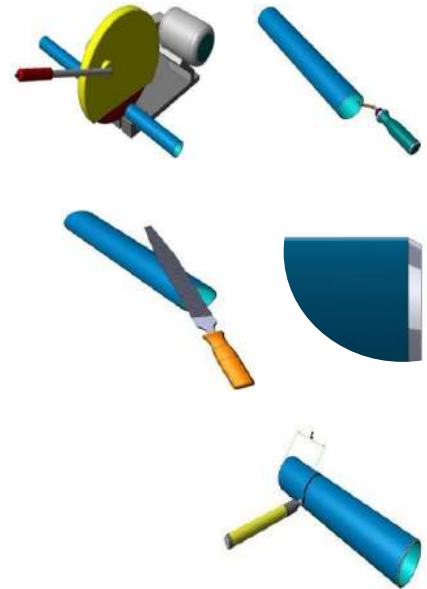
All pipe supplied should be deburred internally, externally and beveled.

Mark the pipe so to have a reference for its correct insertion into the fitting to make sure it exceeds the gasket.

The table below shows the correct reference lengths.

DN	20	25	32	40	50	63	90
L(mm)	35	38	49	60	76	96	93

Lubricate the marked pipe section.

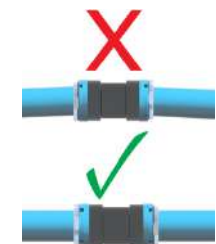


Assembly (DN20 - DN90)

Loosen the nut until the clamp ring is loose.



Ensure the pipe and fittings are parallel to each other.



Insert the pipe into the fitting up to align the reference mark with the external nut surface.



Tighten the nut by hand. In this case, the water tightness and axial clamping are ensured.



Assembly (DN110 - DN160)

Loosen the bolts of the fitting.

Ensure the pipe and fittings are parallel to each other.

Insert the pipe into the fitting up to align the reference mark with the external blocking ring surface.

Tighten all the bolts at a torque value of 15 N/m.

