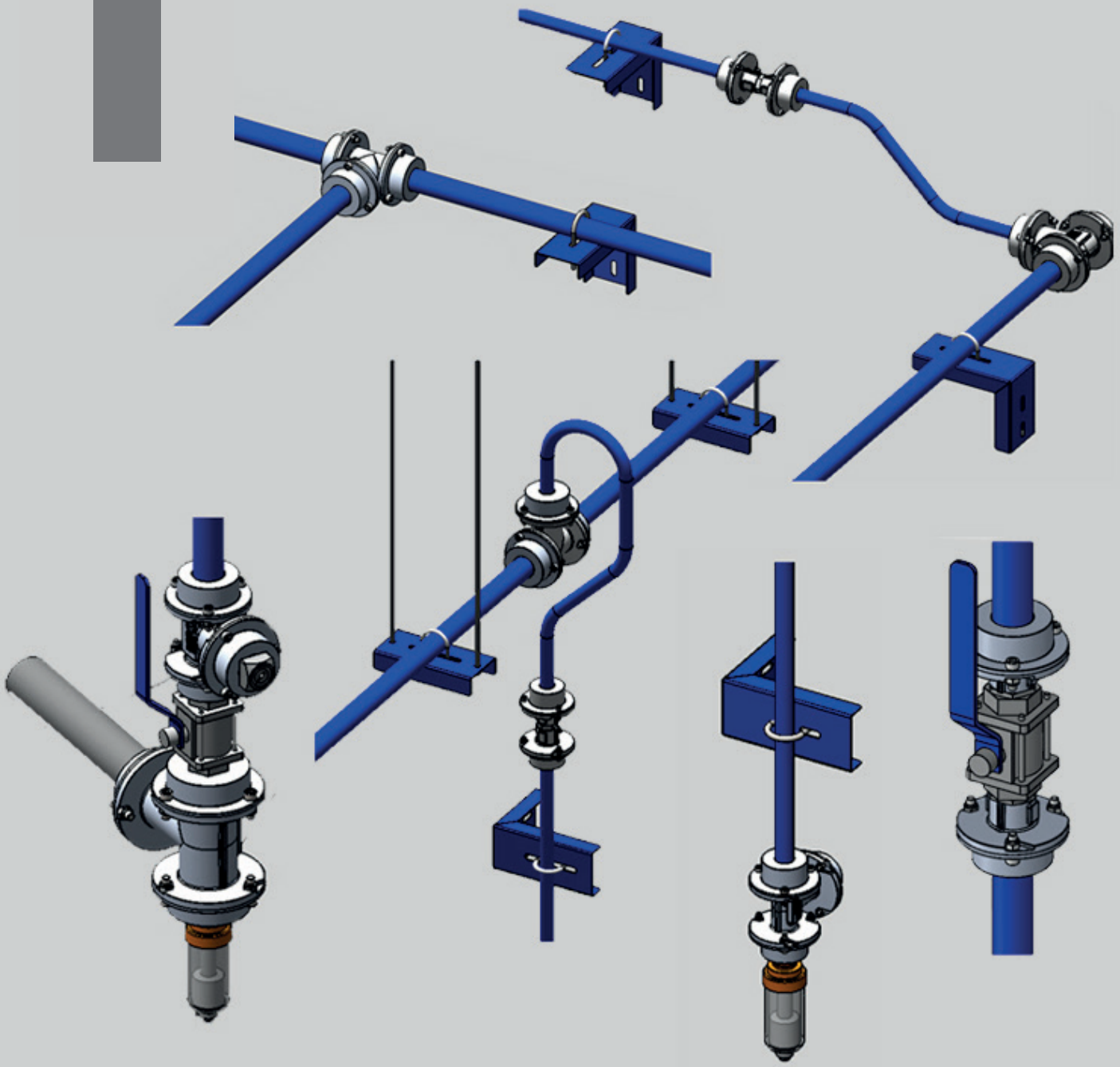
EN



MODFLEX®

Compressed Air and Water Distribution System

METAL WORK® PNEUMATIC

Compressed Air Distribution System Comparison: the Metal Work advantage

The compressed air network is vital in many industrial sectors, from factories to workshops.

The choice of material for the pipes in this network plays a crucial role in the efficiency and reability of the system. Among common materials, such as steel and plastic, aluminum emerges as an option with several differentiators. Aluminum pipes stand out for their compatibility with modern monitoring and control systems. Its smooth surface and corrosion resistance ensure reliable operation, even in environments where precision and automation are essential.

Durability and Resistance:

Metal Work Pipes are made of anodized aluminum and external surface painting and, for this reason, are recognized for their exceptional durability and resistance. Unlike steel, they do not corrode, even in humid or aggressive environments. This ensures a longer System life, reducing long-term maintenance and replacement costs.

Weight and Easy Installation:

Metal Work fittings are also made of aluminum and are therefore lighter than those developed in steel and due to their construtive design, making the pipes installation easier and faster, without tools to shape the tube, reducing assemply time by up to 8x.

Flexibility and Adaptability:

Aluminum piping offers excellent flexibility, allowing for curves and contours that woud be difficult or impossible with steel piping. This simplifies layout and can reduce the need for addittional fittings, minimizing potential leak points.

Energy Efficiency:

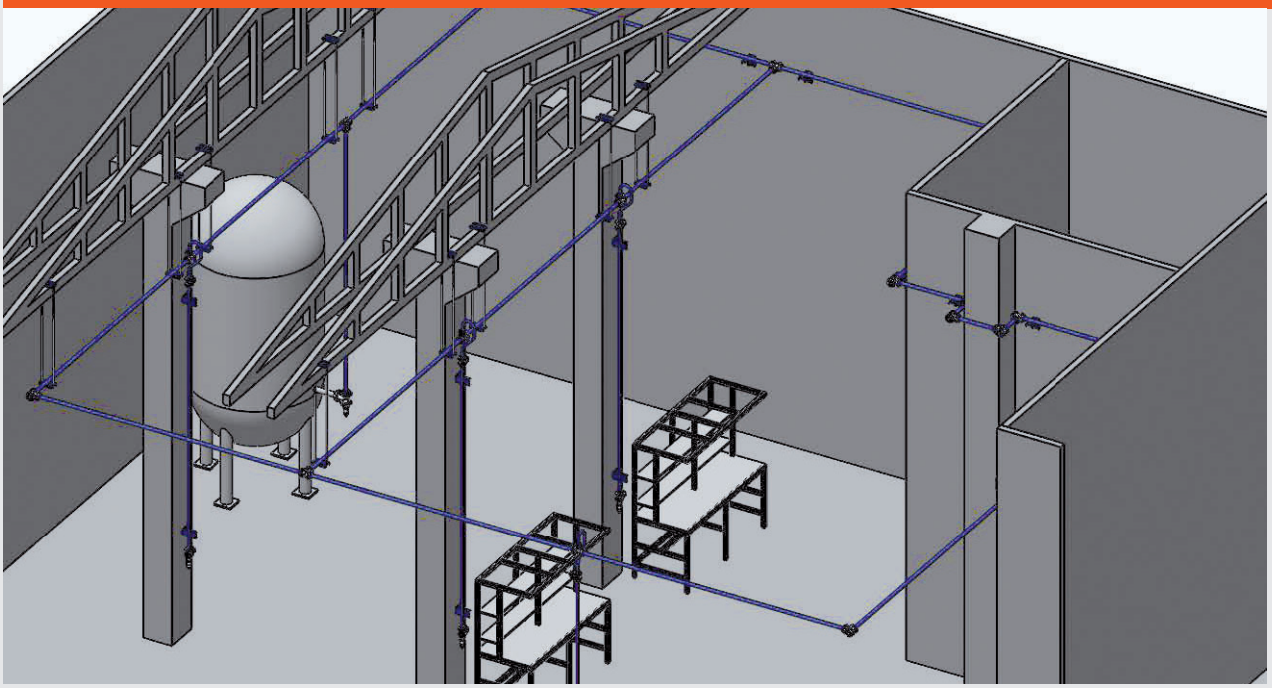
The Metal Work fitting, due to its construction model has a higher thermal conductivity than steel, which means that energy losses, due to compressed air cooling, are lower in aluminum piping systems. This translates into significant energy savings over time, contributing to sustainability and reducing operatings costs.

In summary, the Metal Work Compressed Air Distribution Network offers a number of significasnt advantages compared to other manufaturers. Its durability, light weigh, easy installation, flexibility and energy efficiency make it an ideal choice for companies looking to maximize the perfomance of their systems, while reducing long-term operating and maintenance cost.

METAL WORK®
PNEUMATIC

INDEX

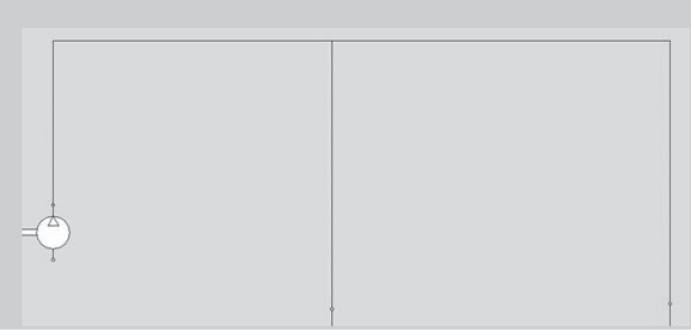
COMPRESSED AIR DISTRIBUTION SYSTEM



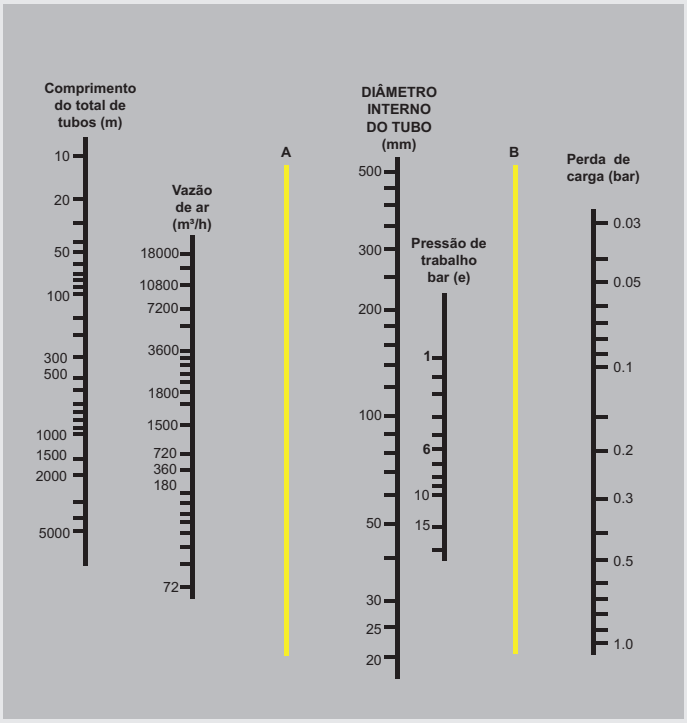
- Up to 16 bar working pressure
- Easy installation
- Injected aluminum fittings
- No special tools required for installation
- Quick maintenance
- Factory externally painted piping
- Main network diameters: Ø63 / Ø50 / Ø40 / Ø32
- Secondary network diameters: Ø25 / Ø20
- Compatible with the entire pneumatic line of Metal Work products

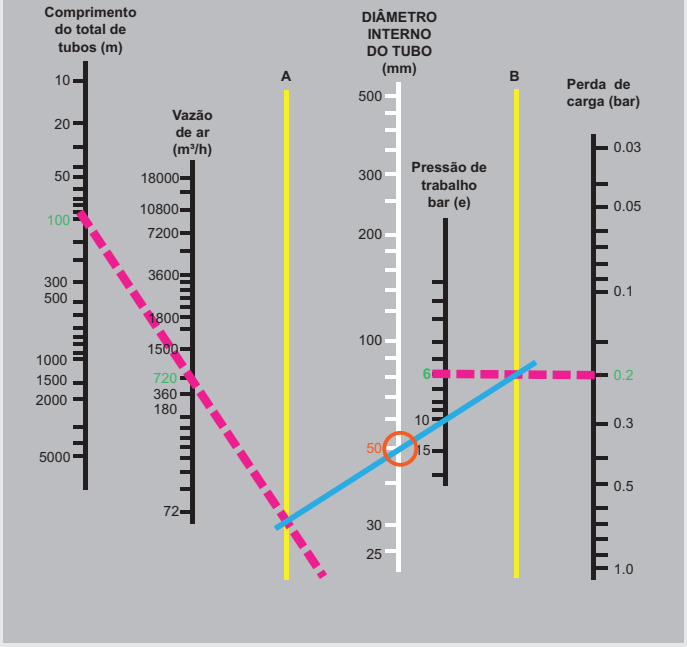
DATA SHEET

- Working pressure range from -0,99 to 16 bar
- Temperature range from -10 to 60 °C
- High mechanical resistance
- Low maintenance
- Easy installation
- Aluminum product
- Quick connect
- Project prepared based on the ASME standard



DETERMINATION OF THE INTERNAL Ø OF THE PIPE VIA NOMOGRAM





1. On the SECTION LENGHT scale, mark a point on the equivalente lenght of the network you need to determine;

2. On the AIR FLOW scale, mark a point on the average air flow compressed air flowing through the piping;

3. Connect the two points with a straight line to COLUMN A;

4. On the WORKING PRESSURE scale, repeat operation 1;

5. On the LOAD LOSS scale, repeat operation 2;

6. Repeat operation 3 on the WORKING PRESSURE and LOSS OF LOAD, but in COLUMN B;

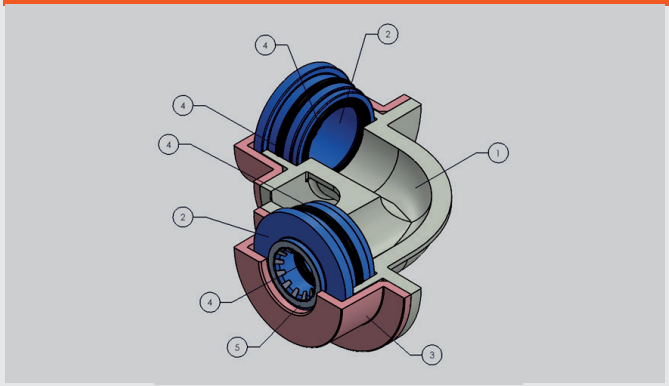
7. Draw a straight line between the two points of COLUMN A and COLUMN B;

8. The intersection of this straight line drawn BLUE line between AXIS 1 and AXIS 2 will indicate the internal Ø sought;

EXAMPLE:
Pipe length: 100 meters
Average compressed air flow: 720 m3/h
Initial pressure: 6 bar
Desired pressure loss: 0.20 bar
Internal diameter of the pipe: In this example Ø 50, pipe of external Ø 60mm.

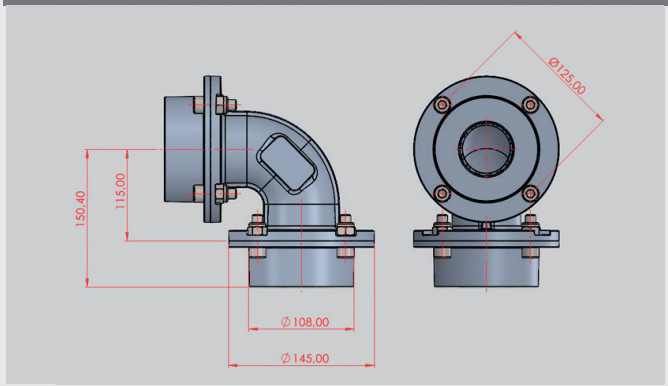
COMPRESSED AIR DISTRIBUTION SYSTEM FITTINGS COMPONENTS

ELBOW FITTINGS FOR PIPES (Ø63/Ø50/Ø40/Ø32/Ø25)



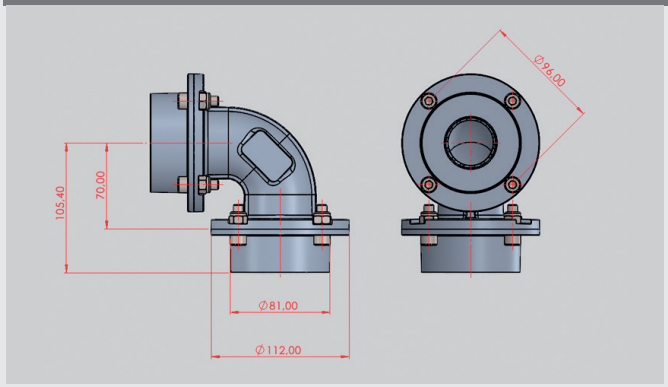
① FITTING – Anodized aluminum and external painting
② SUPPORTING RING - Anodized aluminum
③ FLANGE - Aluminum with external painting
④ SEAL – NBR
⑤ CLAMPING SPRING – Stainless steel

ELBOW FITTINGS Ø63



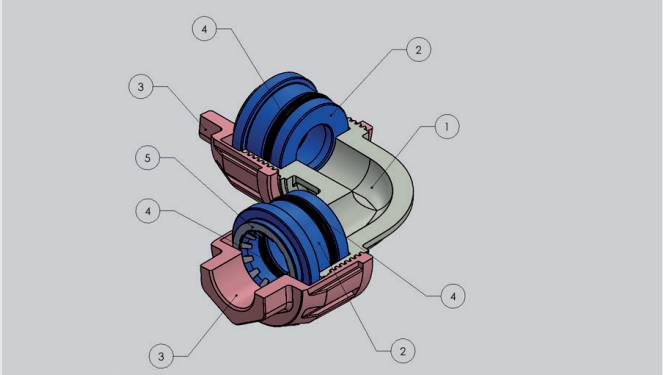
Code	Description
Z54RDACC6363	Elbow fittings - Ø63mm - 1,80Kg
Z54RDACC6350	Elbow fittings reduction for pipes Ø63mm-Ø50mm
Z54RDACC6340	Elbow fittings reduction for pipes Ø63mm-Ø40mm
Z54RDACC5050	Elbow fittings Ø50mm
Z54RDACC5040	Elbow fittings reduction for pipes Ø50mm-Ø40mm
Z54RDACC6325	Elbow fittings reduction for pipes Ø63mm - Ø25mm

ELBOW FITTINGS Ø40



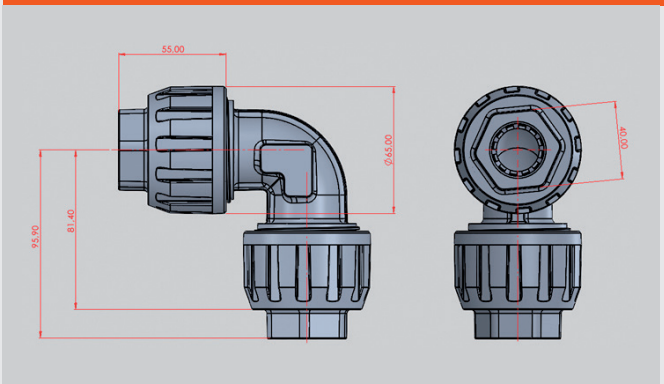
Code	Description
Z54RDACC4040	Elbow fittings Ø40mm - 0,80Kg
Z54RDACC4032	Elbow fittings reduction for pipes Ø40mm-Ø32mm
Z54RDACC4025	Elbow fittings reduction for pipes Ø40mm-Ø25mm
Z54RDACC40RO	Elbow fittings 1x Ø40mm 1x G.1/2"
Z54RDACC3232	Elbow fittings Ø32mm
Z54RDACC3225	Elbow fittings reduction for pipes Ø32mm-Ø25mm
Z54RDACC32RO	Elbow fittings 1x Ø32mm 1x G.1/2" Female

ELBOW FITTINGS COMPONENTS FOR PIPES (Ø25/Ø20)



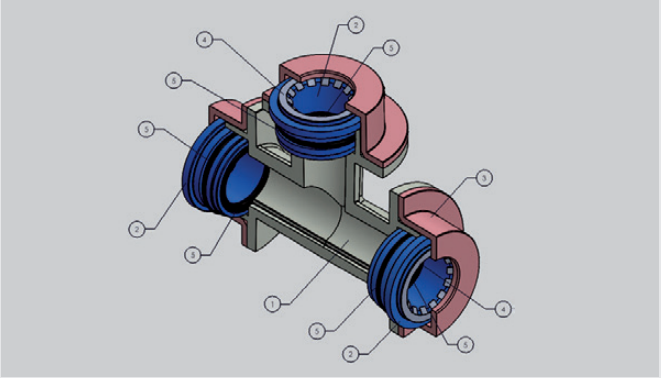
① FITTING – Anodized aluminum and external painting
② SUPPORTING RING - Anodized aluminum
③ THREADED FLANGE - Anodized aluminum and external painting
④ SEAL – NBR
⑤ CLAMPING SPRING – Stainless steel

ELBOW FITTINGS Ø25, Ø20



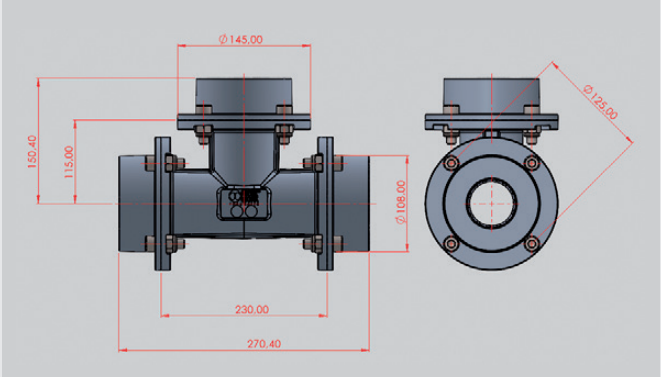
Code	Description
Z54RDACC2020	Elbow fittings Ø20mm
Z54RDACC2525	Elbow fittings Ø25mm - 0,37Kg Female
Z54RDACC2520	Elbow fittings reduction for pipes Ø25mm-Ø20mm
Z54RDACC20RO	Elbow fittings 1x Ø20mm 1x G.1/2" Female
Z54RDACC25RO	Elbow fittings 1x Ø25mm 1x G.1/2"

TEE FITTINGS COMPONENTS FOR PIPES (Ø63/Ø50/Ø40/Ø32/Ø25)



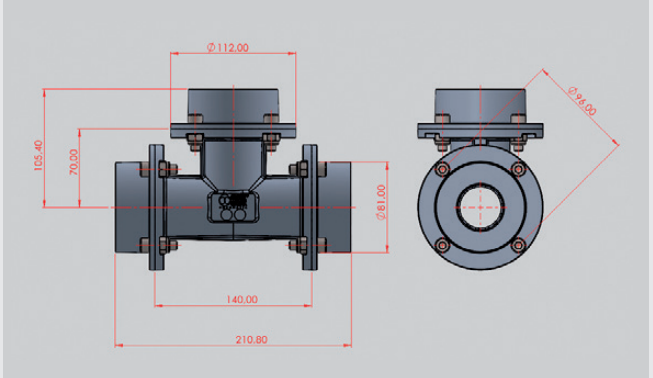
① FITTING – Anodized aluminum and external painting
② SUPPORTING RING - Anodized aluminum
③ FLANGE - Aluminum with external painting
④ CLAMPING SPRING – Stainless steel
⑤ SEAL – NBR

TEE FITTINGS Ø63



Code	Description
Z54RDACT6363	Tee fittings Ø63 - 2,65Kg
Z54RDACT6350	Tee fittings with reduction of 2x Ø63mm - 1x Ø50mm
Z54RDACT6340	Tee fittings with reduction of 2x Ø63mm - 1x Ø40mm
Z54RDACT5050	Tee fittings Ø50
Z54RDACT5040	Tee fittings with reduction 2x Ø50mm - 1x Ø40mm
Z54RDACT6325	Tee fittings with reduction 2x Ø63mm - 1 x Ø25mm

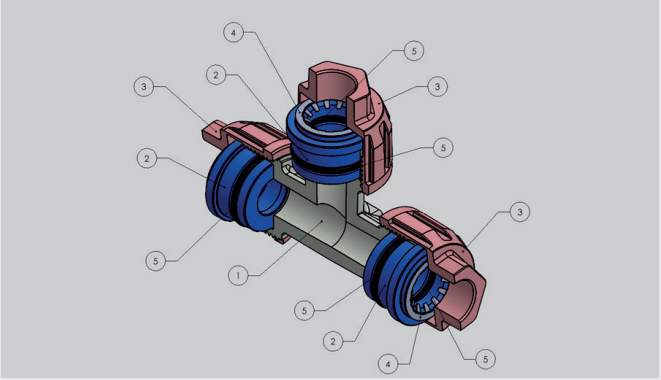
TEE FITTINGS Ø40



Code	Description
Z54RDACT3225	Tee fittings with reduction 2x Ø32mm - 1x Ø25mm
Z54RDACT3232	Tee fittings for pipes of Ø32mm
Z54RDACT32RO	Tee fittings 2x Ø32mm - 1x G.1/2", female
Z54RDACT4025	Tee fittings with reduction 2x Ø40mm - 1x Ø25mm
Z54RDACT4032	Tee fittings with reduction 2x Ø40mm - 1x Ø32mm
Z54RDACT4040	Tee fittings for pipes of Ø40mm
Z54RDACT40RO	Tee fittings 2x Ø40mm - 1x G.1/2" female
Z54RDACTR040	Tee fittings for 2 x G1/2", female - 1xØ40mm
Z54RDACTR032	Tee fittings for 2 x G1/2", female - 1 x Ø32mm

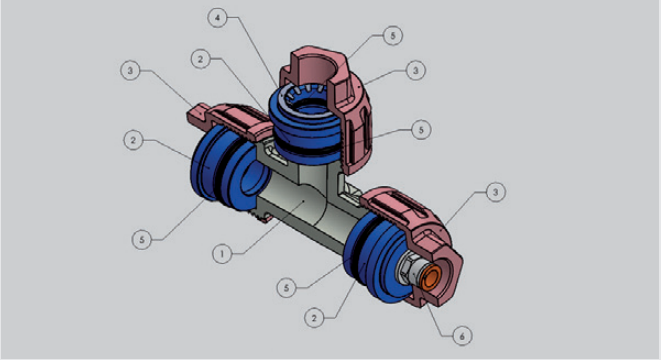
COMPRESSED AIR DISTRIBUTION SYSTEM FITTINGS COMPONENTS

TEE FITTINGS COMPONENTS (Ø25/Ø20)



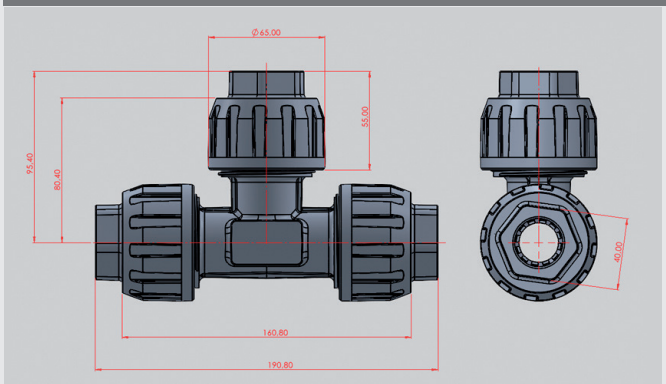
① FITTING – Anodized aluminum and external painting
② SUPPORTING RING - Anodized aluminum
③ THREADED FLANGE - Anodized aluminum and external painting
④ CLAMPING SPRING – Stainless steel
⑤ SEAL – NBR

TEE FITTINGS COMPONENTS FOR PIPE WITH REDUCTION (MM)



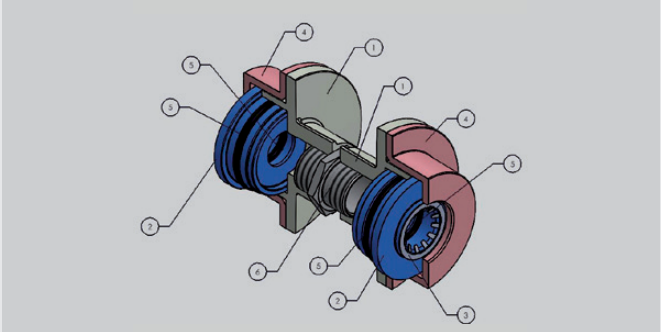
① FITTING – Anodized aluminum and external painting
② SUPPORTING RING - Anodized aluminum
③ THREADED FLANGE - Anodized aluminum and external painting
④ CLAMPING SPRING – Stainless steel
⑤ SEAL – NBR
⑥ FITTING - Brass

TEE FITTINGS Ø25



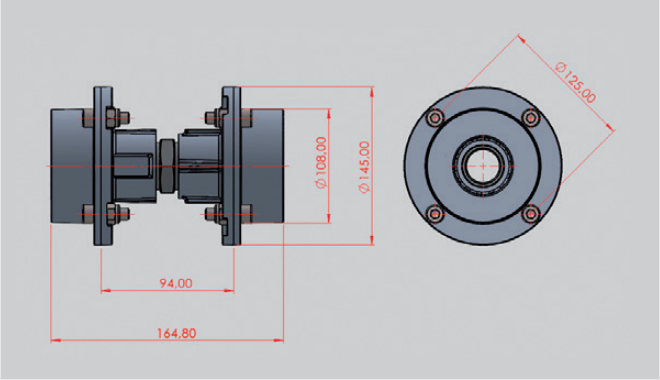
Code	Description
Z54RDACT2020	Tee fittings Ø20 - 0,53Kg
Z54RDACT2025	Tee fittings with reduction 1x Ø25mm - 2x Ø20mm
Z54RDACT2525	Tee fittings Ø25 - 0,53Kg
Z54RDACT2520	Tee fittings with reduction 2x Ø25mm - 1x Ø20mm
Z54RDACT20RO	Tee fittings female 2x Ø20mm 1x G.1/2"
Z54RDACT25RO	Tee fittings female 2x Ø25mm 1x G.1/2"
Z54RDACTRO20	Tee fittings female 2x G.1/2" 1x Ø20mm
Z54RDACTRO25	Tee fittings female 2x G.1/2" 1x Ø25mm

STRAIGHT FITTINGS FOR PIPES (Ø63/Ø50/Ø40/Ø32/Ø25)



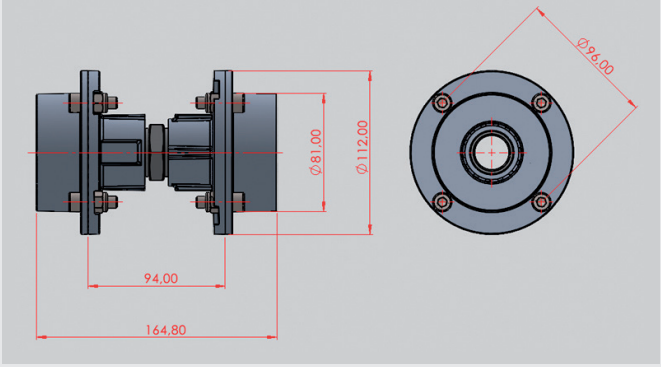
① STRAIGHT FITTING – Anodized aluminum and external painting
② SUPPORTING RING - Anodized aluminum
③ FLANGE - Aluminum with external painting
④ CLAMPING SPRING – Stainless Steel
⑤ SEAL – NBR
⑥ NIPPLE – Aluminum

STRAIGHT FITTINGS Ø63



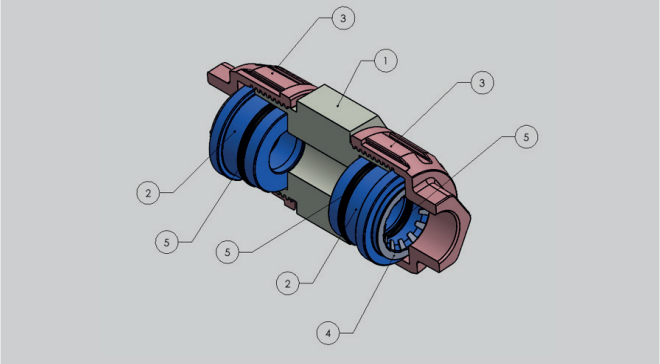
Code	Description
Z54RDACR6363	Straight Fitting Ø63mm - 0,58Kg
Z54RDACR6350	Straight Fitting Reduction Ø63mm-Ø50mm
Z54RDACR6340	Straight Fitting Reduction Ø63mm-Ø40mm
Z54RDACR5050	Straight Fitting Ø50mm
Z54RDACR5040	Straight Fitting Reduction Ø50mm-Ø40mm

STRAIGHT FITTINGS Ø40



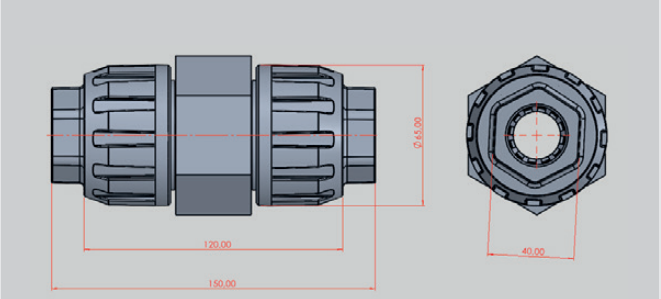
Code	Description
Z54RDACR4040	Straight Fitting Ø40mm - 0,33Kg
Z54RDACR4032	Straight Fitting Reduction Ø40mm-Ø32mm
Z54RDACR4025	Straight Fitting Reduction Ø40mm-Ø25mm
Z54RDACR3232	Straight Fitting Ø32mm
Z54RDACR3225	Straight Fitting Reduction Ø32mm-Ø25mm

STRAIGHT FITTINGS COMPONENTS FOR PIPE (Ø25/Ø20)



① STRAIGHT FITTING – Anodized aluminum and external painting
② SUPPORTING RING - Anodized aluminum
③ THREADED FLANGE - Anodized aluminum and external painting
④ CLAMPING SPRING – Stainless steal
⑤ SEAL – NBR

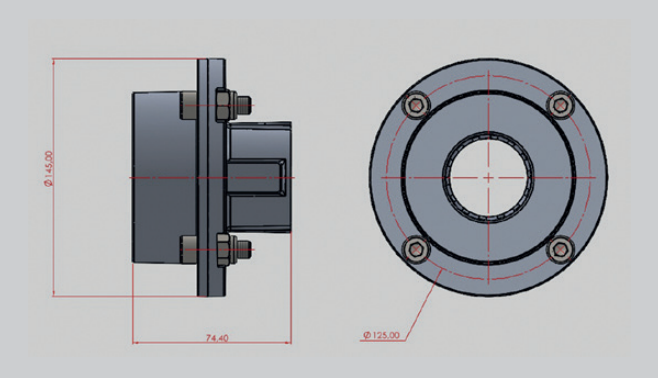
STRAIGHT FITTINGS Ø25/Ø20



Code	Description
Z54RDACR2020	Straight Fitting Ø20mm
Z54RDACR2525	Straight Fitting Ø25mm
Z54RDACR2520	Straight Fitting Reduction Ø25mm-Ø20mm

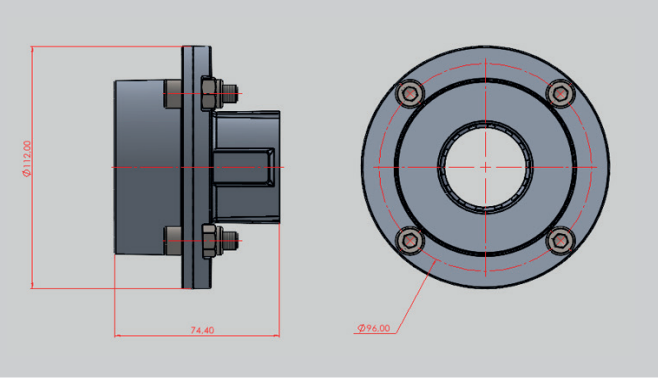
COMPRESSED AIR DISTRIBUTION SYSTEM FITTINGS COMPONENTS

STRAIGHT FITTINGS Ø63 WITH FEMALE THREAD



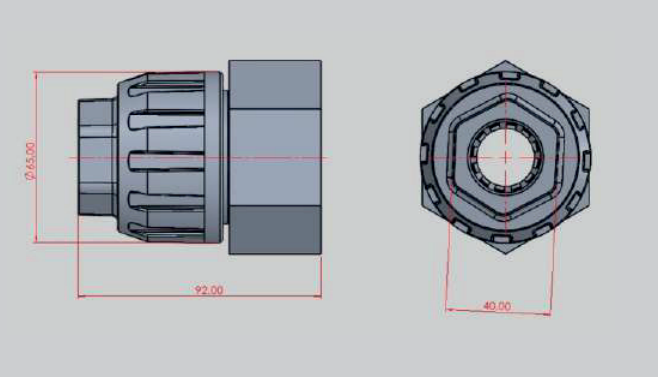
Code	Description
Z54RDACR63RO	Straight fittings 1xØ63mm 1xG2" female
Z54RDACR50RO	Straight fittings 1XØ50MM 1xG2" female

STRAIGHT FITTINGS Ø40 WITH FEMALE THREAD



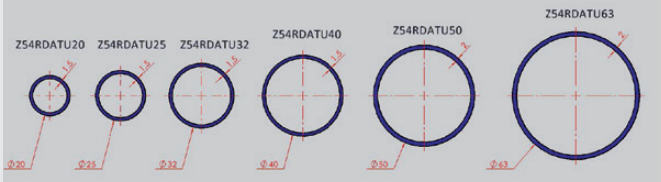
Code	Description
Z54RDACR40RO	Straight fittings 1xØ40mm 1xG1.1/4" female
Z54RDACR32RO	Description Straight fittings 1xØ32mm 1xG1/2", female

STRAIGHT FITTINGS Ø25 WITH FEMALE THREAD



Code	Description
Z54RDACR20RO	Straight Fitting 1 x Ø20mm 1xG.1 female
Z54RDACR25RO	Straight Fitting 1x Ø25mm 1xG.3/4" Female

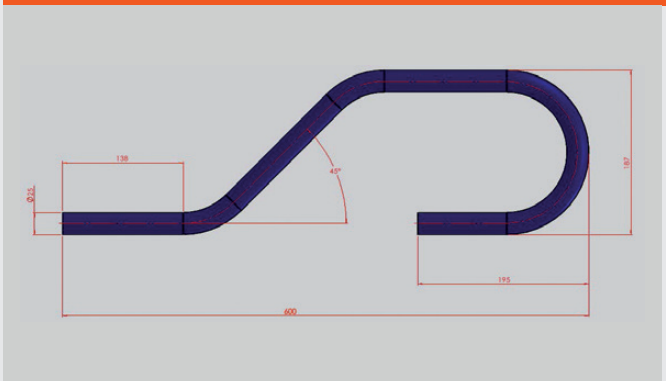
STRAIGHT PIPES



Ø (mm)	Code	Description
63	**Z54RDATU63**	Ø63 Straight pipe
50	**Z54RDATU50**	Ø50 Straight pipe
40	**Z54RDATU40**	Ø40 Straight pipe
32	**Z54RDATU32**	Ø32 Straight pipe
25	**Z54RDATU25**	Ø25 Straight pipe
20	**Z54RDATU20**	Ø20 Straight pipe

- Anodized aluminum pipes
- Exterior painting: Color 2,5 PB 4/10 (safety blue)
- Does not require any type of intervention on the piping such as threads or grooves.
- Bars with a standard length of 6,0 m

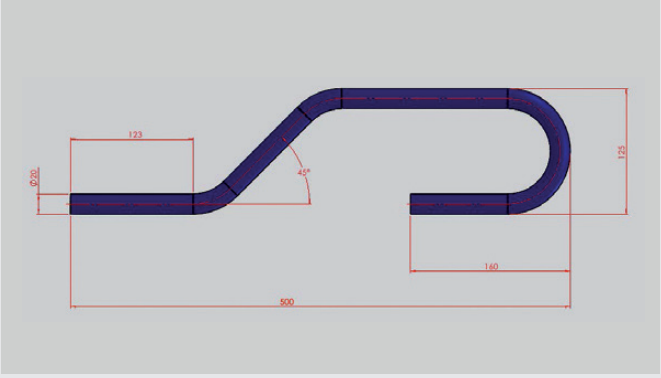
CURVED TUBE 180° – Ø25



Ø (mm)	Code	Description
25	**Z54RDABE25**	Aluminum curved tube

- Anodized aluminum curved tube
- Exterior painting: Color 2,5 PB 4/10 (safety blue)
- Does not require any type of intervention on the piping such as threads or grooves.

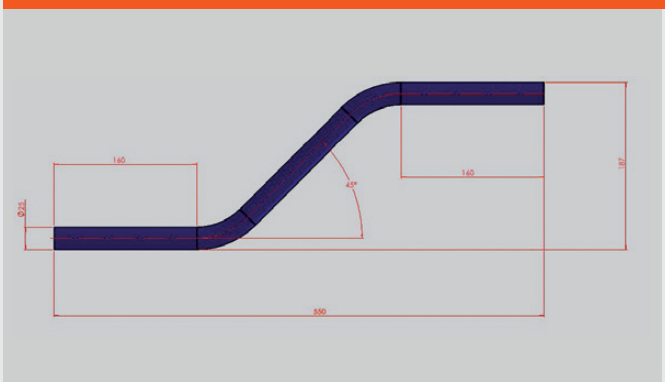
CURVED TUBE 180° – Ø20



Ø (mm)	Code	Description
20	**Z54RDABE20**	Aluminum curved tube

- Anodized aluminum curved tube 180°
- Exterior painting: Color 2,5 PB 4/10 (safety blue)
- Does not require any type of intervention on the piping such as threads or grooves.

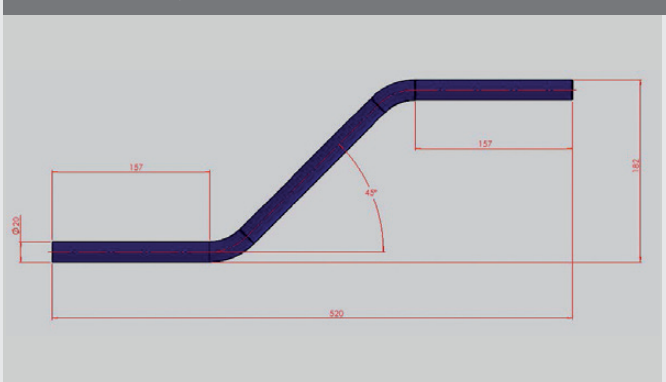
BYPASS – Ø25



Ø (mm)	Code	Description
25	**Z54RDADS25**	Aluminum bypass

- Anodized aluminum bypass
- Exterior painting: Color 2,5 PB 4/10 (safety blue)
- Does not require any type of intervention on the piping such as threads or grooves.

BYPASS – Ø20

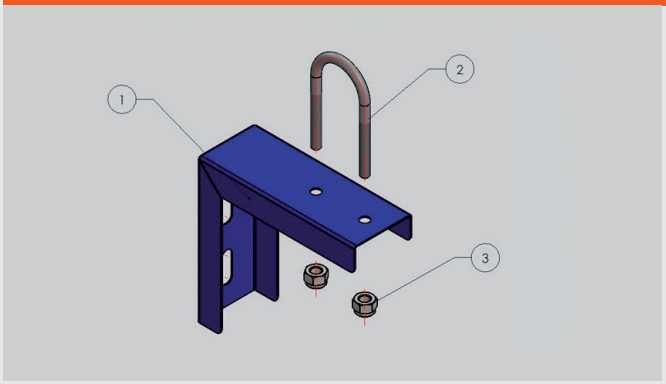


Ø (mm)	Code	Description
20	**Z54RDADS20**	Aluminum bypass

- Anodized aluminum bypass
- Exterior painting: Color 2,5 PB 4/10 (safety blue)
- Does not require any type of intervention on the piping such as threads or grooves.

COMPRESSED AIR DISTRIBUTION SYSTEM FIXING COMPONENTS

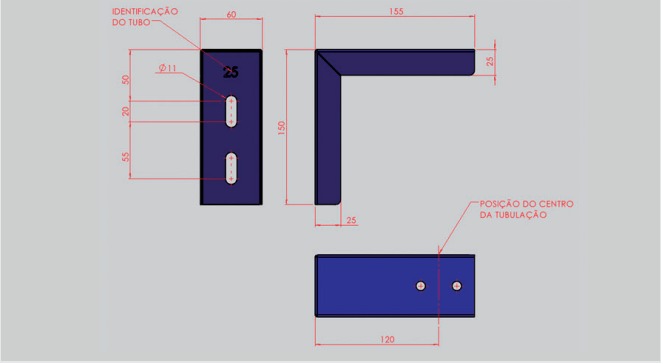
FIXING TO BEAMS AND WALLS



Position	Description
1	Bracket – Steel
2	Type "U" clamp - Steel
3	Nut - Steel

- Bracket according to pipe diameters.
- Fixing the bracket to the masony, using parabolt anchor with Ø3/8"x3.3/4" that comes with the bracket.
- Fixes vertical and horizontal pipes.

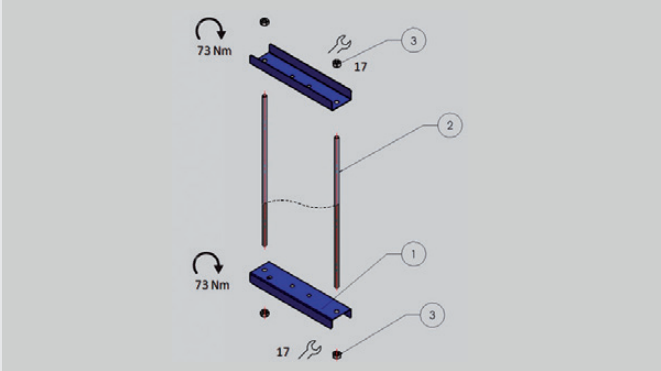
FIXING TO BEAMS AND WALLS



Ø Piping (mm)	Bracket Kit code
Ø63	KRDASUP80063
Ø50	KRDASUP80050
Ø40	KRDASUP80040
Ø32	KRDASUP80032
Ø25	KRDASUP80025
Ø20	KRDASUP80020

- Dimensions for installing the bracket
- The code is already supplied with 2 supports, tie rod and nuts for assembly.

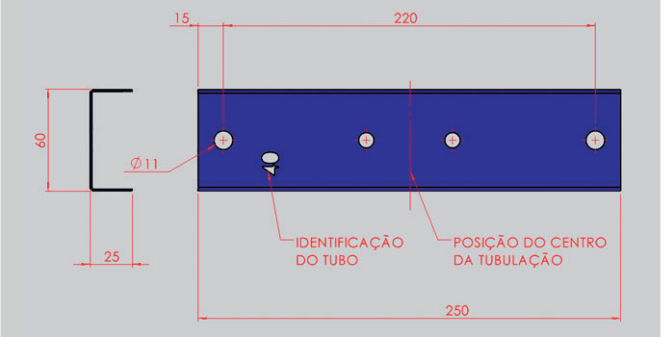
AERIAL FIXING



Position	Description
1	Bracket – Steel
2	Tie rod – Steel
3	Nut - Steel

- Standard length of M10 threaded bars of 1,0 m.
- For longer lenghts and/or larger bases the company must be contected.
- Fixes vertical pipes.

AERIAL FIXING

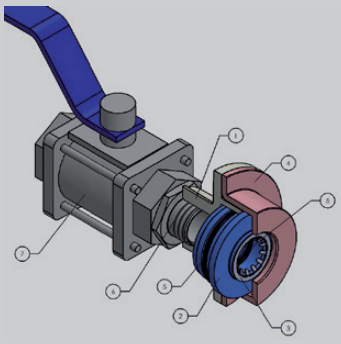


Ø Piping(mm)	Bracket Kit code
Ø63	KRDASUP90063
Ø50	KRDASUP90050
Ø40	KRDASUP90040
Ø32	KRDASUP90032
Ø25	KRDASUP90025
Ø20	KRDASUP90020

- Dimensions for installing the bracket
- The code is already supplied with 2 supports, tie rod and nuts for assembly.

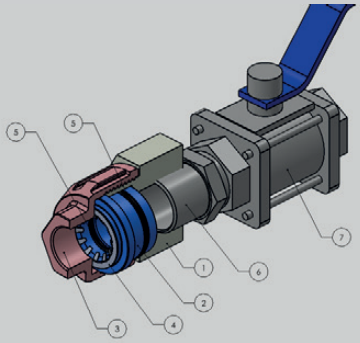
COMPRESSED AIR DISTRIBUTION SYSTEM FITTINGS COMPONENTS

BALL VALVE FITTINGS COMPONENTS (Ø63/Ø50/Ø40/Ø32/Ø25)



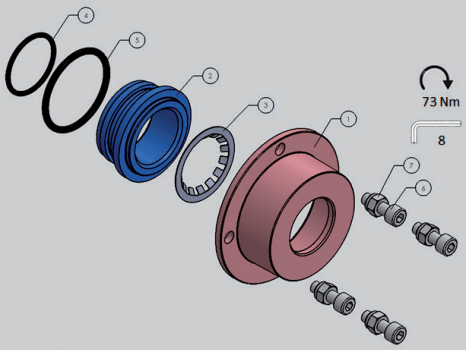
① STRAIGH FITTING – Anodized aluminum and external painting
② SUPPORTING RING - Anodized aluminum
③ FLANGE - Aluminum with external painting
④ CLAMPING SPRING – Stainless steal
⑤ SEAL – NBR
⑥ NIPPLE – Anodized aluminum
⑦ BALL VALVE – Stainless steal

BALL VALVE CONNECTION COMPONENTS(Ø25/Ø20)



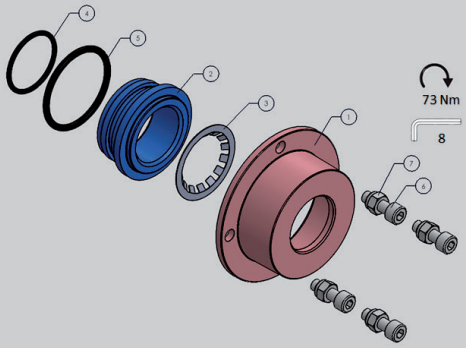
① STRAIGH FITTING – Anodized aluminum and external painting
② SUPPORTING RING - Anodized aluminum
③ THREADED FLANGE - Anodized aluminum and external painting
④ CLAMPING SPRING – Stainless steal
⑤ SEAL – NBR
⑥ NIPPLE –Anodized aluminum
⑦ BALL VALVE – Stainless steal

KRDA6363 – FLANGE FITTINGS Ø63 / PIPE Ø63



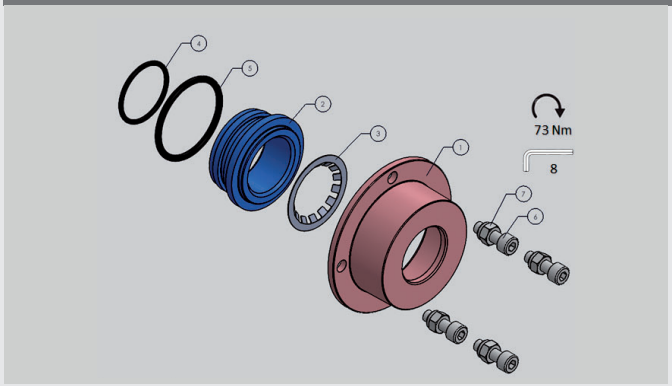
Position	Code	Description	Quantity
1	**WZ54RDA4006363**	Flange Ø63 CT 63	1
2	**WZ54RDA2006363**	Supporting ring Ø63	1
3	**WRDA3006363**	Clamping spring Ø63	1
4	**W77593083**	O Ring	1
5	**W77593082**	O Ring	1
6	**W700295**	Allen screw M10x30	4
7	**W710005**	Self-locking nut M10	4

KRDA6350 - FLANGE FITTINGS Ø63 / PIPE Ø50



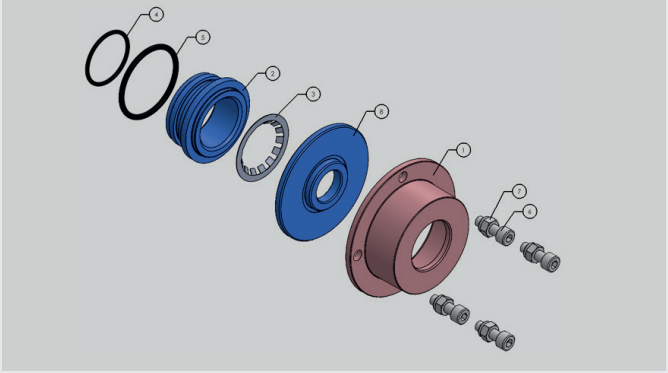
Position	Code	Description	Quantity
1	**WZ54RDA4006350**	Flange Ø50 CT 63	1
2	**WZ54RDA2006350**	Supporting ring Ø50	1
3	**WRDA3006350**	Clamping spring Ø50	1
4	**W77593082**	O Ring	1
5	**W77593084**	O Ring	1
6	**W700295**	Allen screw M10X30	4
7	**W710005**	Self-locking nut M10	4

KRDA6340 – FLANGE FITTINGS Ø63 / PIPE Ø40



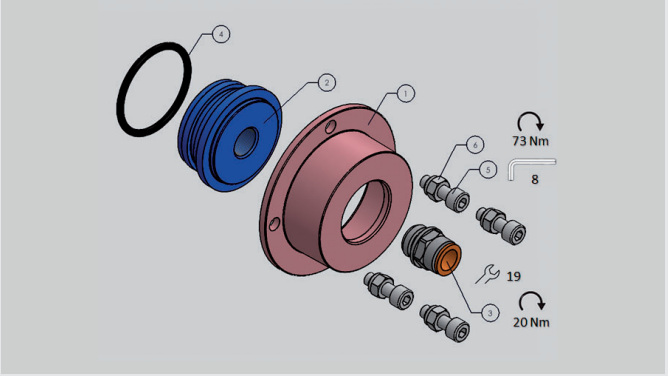
Position	Code	Description	Quantity
1	WZ54RDA4006340	Flange Ø40 CT 63	1
2	WZ54RDA2006340	Supporting ring Ø40	1
3	WRDA3006340	Clamping spring Ø40	1
4	W77593085	O Ring	1
5	W77593082	O Ring	1
6	W700295	Allen screw M10X30	4
7	W710005	Self-locking nut M10	4

KRDA6325 – FLANGE FITTINGS Ø63 / PIPE Ø25



Position	Code	Description	Quantity
1	WZ54RDA4006340	Flange Ø40 CT 63	1
2	WZ54RDA2006325	Supporting ring Ø25 CT 63	1
3	WRDA3004025	Clamping spring Ø25	1
4	W77593088	O'ring	1
5	W77593082	O'ring	1
6	W700295	Allen screw M10x30	4
7	W710005	Self-locking nut M10	4
8	WZ54RDA6006325	Supporting ring spacer Ø25 CT 63	1

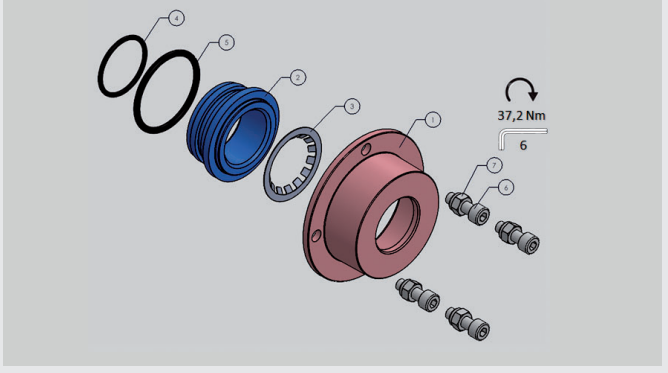
KRDA6312 – FLANGE FITTINGS Ø63 WITH FEMALE THREAD OUTLET G1/2



Position	Code	Description	Quantity
1	WZ54RDA4006363	Flange Ø63 CT 63	1
2	WZ54RDA2006312	Supporting ring G1/2	1
3	Male cylindrical straight fittings	Sold separately	1
4	W77593082	O Ring	1
5	W700295	Allen screw M10x30	4
6	W710005	Self-locking nut M10	4

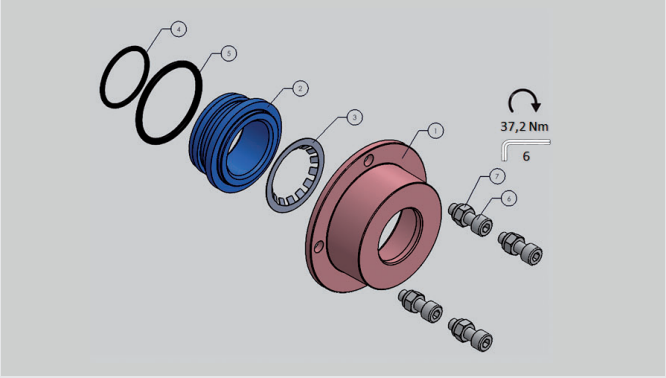
Standard configuration for other assembly options in position 3, the company must be contacted.

KRDA4040 – FLANGE FITTINGS Ø40 / PIPE Ø40



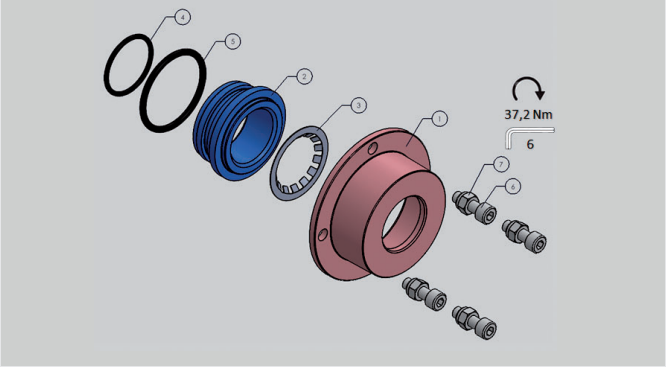
Position	Code	Description	Quantity
1	WZ54RDA4004040	Flange Ø40 CT 40	1
2	WZ54RDA2004040	Supporting Ring Ø40 C40	1
3	WRDA3006340	Clamping Spring Ø40	1
4	W77593085	O Ring	1
5	W77593086	O Ring	1
6	W700288	Allen Screw M8x25	4
7	W710025	Self-Locking Nut M8	4

KRDA4032 – FLANGE FITTINGS Ø40 / PIPE Ø32



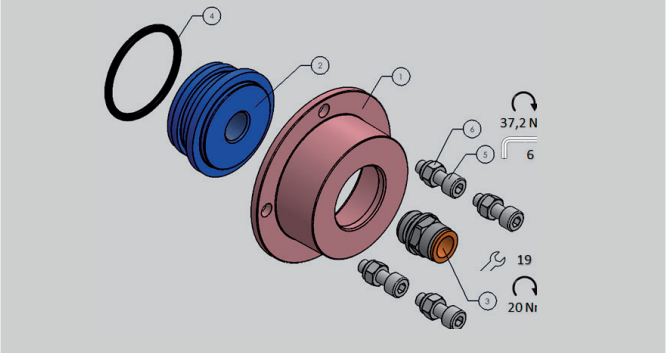
Position	Code	Description	Quantity
1	WZ54RDA4004032	Flange Ø32 CT 40	1
2	WZ54RDA2004032	Supporting ring Ø32	1
3	WRDA3004032	Clamping spring Ø32	1
4	W77593087	O Ring	1
5	W77593086	O Ring	1
6	W700288	Allen screw M8x25	4
7	W710025	Self-locking nut M8	4

KRDA4025 – FLANGE FITTINGS Ø40 /PIPE Ø25



Position	Code	Description	Quantity
1	WZ54RDA4004025	Flange Ø25 CT 40	1
2	WZ54RDA2004025	Supporting ring Ø25	1
3	WRDA3004025	Clamping spring Ø25	1
4	W77593088	O Ring	1
5	W77593086	O Ring	1
6	W700288	Allen screw M8x25	4
7	W710025	Self-locking nut M8	4

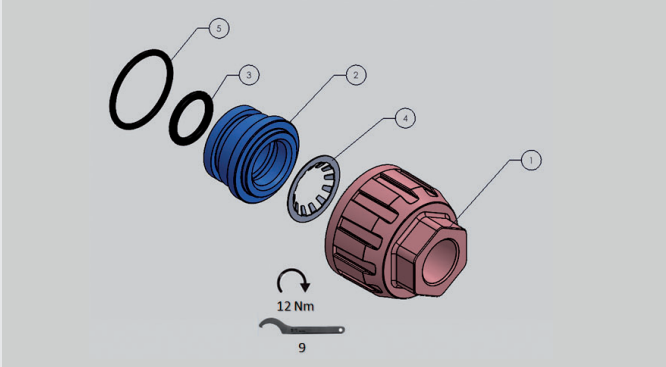
KRDA4012 – FLANGE FITTINGS Ø40 WITH FEMALE THREAD OUTLET G1/2



Position	Code	Description	Quantity
1	WZ54RDA4004040	Flange Ø40 CT 40	1
2	WZ54RDA2004012	Support ring G1/2	1
3	Male cylindrical straight fitting	Sold separately	1
4	W77593086	O Ring	1
5	W700288	Allen screw M8x25	4
6	W710025	Self-locking nut M8	4

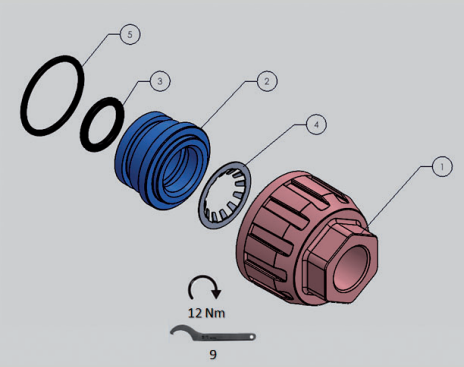
Standard configuration for other assembly options in position 3, the company must be contacted.

KRDA2525 – FLANGE FITTINGS Ø25 / PIPE Ø25



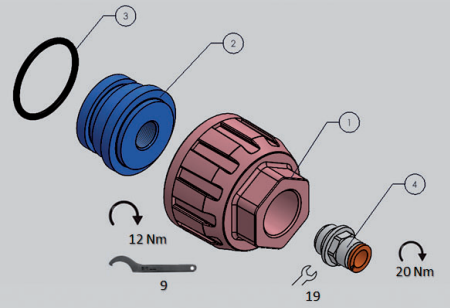
Position	Code	Description	Quantity
1	WZ54RDA4002525	Threaded flange Ø25 CT 25	1
2	WZ54RDA2002525	Supporting ring Ø25 CT 25	1
3	W77593088	O Ring	1
4	WRDA3002520	Clamping spring Ø25	1
5	W77593089	O Ring	1

KRDA2520 - FLANGE FITTINGS Ø25 / PIPE Ø20



Position	Code	Description	Quantity
1	**WZ54RDA4002520**	Threaded flange Ø20 CT 25	1
2	**WZ54RDA2002520**	Supporting ring Ø20 CT 25	1
3	**W77593090**	O Ring	1
4	**WRDA3002520**	Clamping spring Ø20	1
5	**W77593089**	O Ring	1

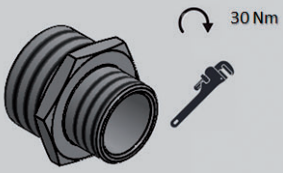
KRDA2512 - FLANGE FITTINGS Ø25 WITH FEMALE THREAD OUTLET G1/2



Position	Code	Description	Quantity
1	**WZ54RDA4002525**	Threaded flange Ø25 CT 25	1
2	**WZ54RDA2002512**	Supporting ring G1/2	1
3	**W77593089**	O Ring	1
4	**Male cylindrical straight fittings**	Sold separately	1

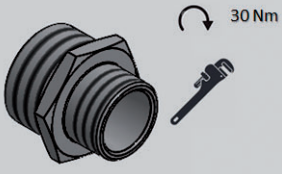
Standard configuration for other assembly options in position 4, the company must be contacted.

NIPPLE FOR STRAIGHT FITTINGS



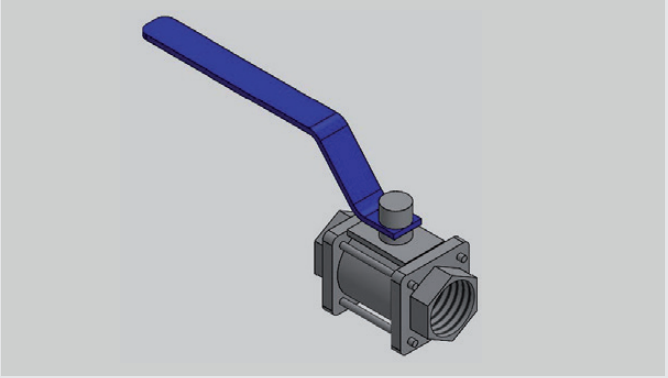
Ø Piping (mm)	Ø Fitting (mm)	Code	Description
Ø63	Ø63	**RDANP200200**	Male Nipple G2xG2
Ø50	Ø63	**RDANP200200**	Male Nipple G2xG2
Ø40	Ø63	**RDANP200200**	Male Nipple G2xG2
Ø40	Ø40	**RDANP114114**	Male Nipple G1.1/4 x G1.1/4
Ø32	Ø40	**RDANP114114**	Male Nipple G1.1/4 x G1.1/4
Ø25	Ø40	**RDANP114114**	Male Nipple G1.1/4 x G1.1/4
Ø25	Ø25	**RDANP100100**	Male Nipple G1xG1
Ø20	Ø25	**RDANP100100**	Male Nipple G1xG1

NIPPLE FOR STRAIGHT FITTINGS WITH BALL VALVE



Ø Piping (mm)	Ø Fitting (mm)	Code	Description
Ø63	Ø63	**RDANP200212**	Male Nipple G2xG2.1/2
Ø63	Ø50	**RDANP200200**	Male Nipple G2xG2
Ø63	Ø40	**RDANP200112**	Male Nipple G2xG1.1/2
Ø40	Ø40	**RDANP114112**	Male Nipple G1.1/4xG1.1/2
Ø32	Ø40	**RDANP114114**	Male Nipple G1.1/4xG1.1/4
Ø25	Ø40	**RDANP114100**	Male Nipple G1.1/4 xG1
Ø25	Ø25	**RDANP100100**	Male Nipple G1xG1
Ø25	Ø20	**RDANP034100**	Male Nipple G3/4xG1

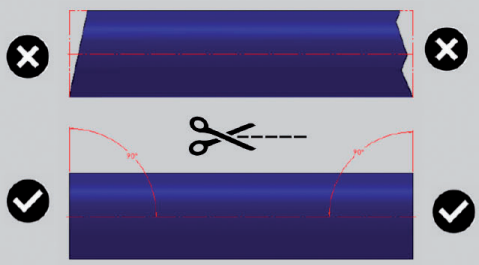
BALL VALVE



Ø Piping (mm)	Ø Fitting (mm)	Valve	Descripition
Ø63	Ø63	**WS60212G1**	Ball valve Ø2.1/2
Ø50	Ø63	**WS60002G1**	Ball valve Ø2
Ø40	Ø63	**WS60112G1**	Ball valve Ø1.1/2
Ø40	Ø40	**WS60112G1**	Ball valve Ø1.1/2
Ø32	Ø40	**WS60114G1**	Ball valve Ø1.1/4
Ø25	Ø40	**WS60001G1**	Ball valve Ø1
Ø25	Ø25	**WS60001G1**	Ball valve Ø1
Ø20	Ø25	**WS60034G1**	Ball valve Ø3/4

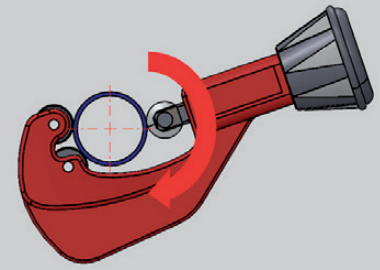
ALUMINUM PIPING IDENTIFICATION

ELEMENTS CUTTING



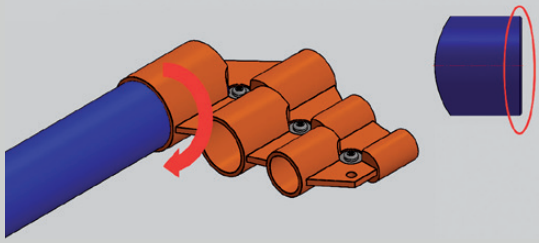
If any pipe needs to be cut, this operation must have a finish free of burrs and sharp edges to avoid
damaging the seals and with a chamber whever possible, in addition to having a cutting face completely perpendicular to the center line of the item.

PIPES CUTTING



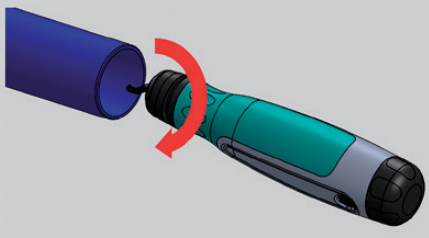
Align the blade with the making of the final dimension of the pipe to be cut, using circular movements.

PIPES CUTTING



Insert the pipe until it reaches the internal stop of the tool and perform the chamber, using circular moviments.

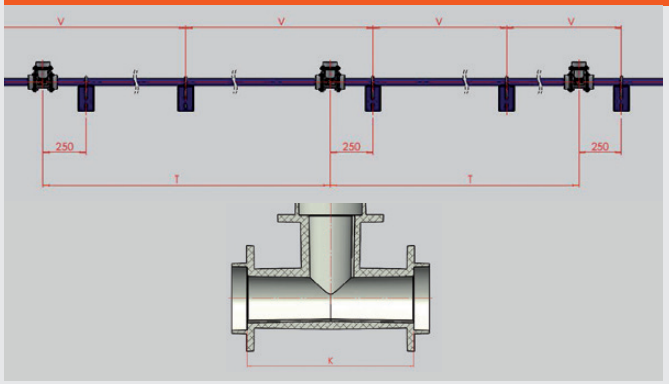
PIPES CUTTING



Position the tool and perform deburring, using circular movements.

ASSEMBLY INSTRUCTIONS

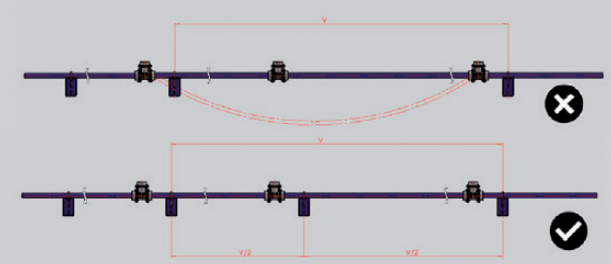
FIXING - THE WALL MOUNTING BRACKET IN THE HORIZONTAL POSITION



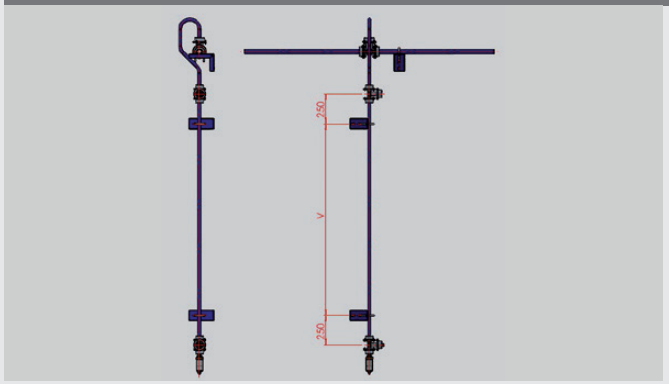
Pipe Ø (mm)	Max. "V"(m)	K (mm)
Ø63	4,5	288
Ø50	4	228
Ø40	3,5	228/138
Ø32	3	138/138
Ø25	2,5	138/138
Ø20	2,5	138

• The dimension "T" considered, consists of the standard lenght of the pipe (6m), plus the dimension "K" which varies depending on the diameter of the fittings.

FIXING - THE WALL MOUNTING BRACKET IN THE HORIZONTAL POSITION

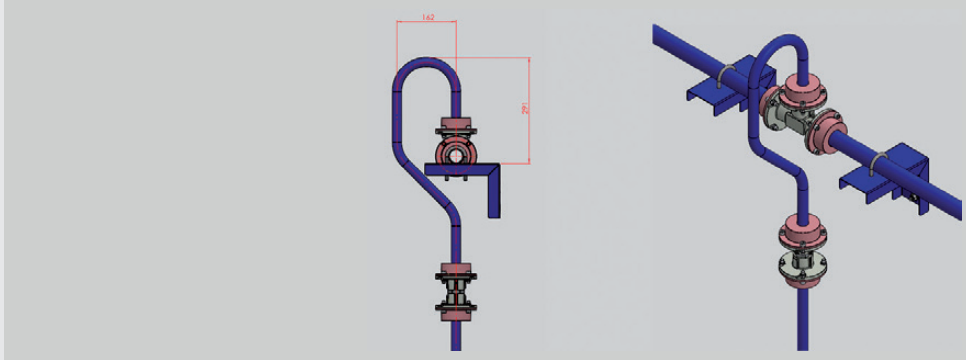


FIXING - THE WALL MOUNTING BRACKET IN THE VERTICAL POSITION

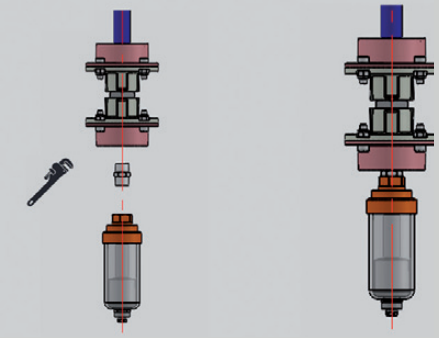


The "V" value must not exceed 3.0 m.

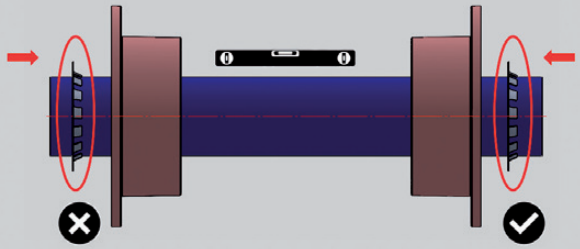
FIXING - DROP BENDS



FIXING - ACCESSORIES ASSEMBLY

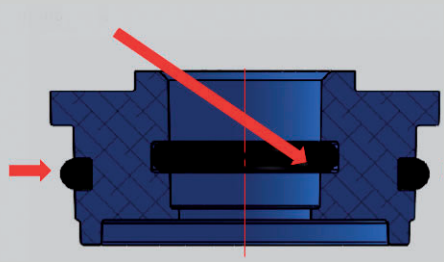


INSTALLATION



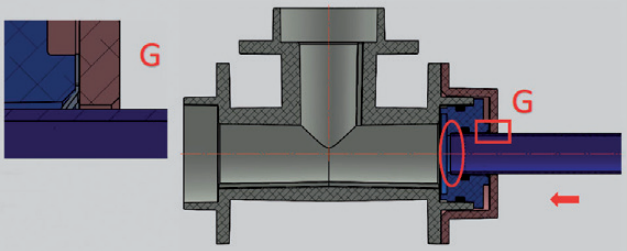
• Always observe the order and position of the elements when installing.

INSTALLATION



• Apply BERULUB FR16 grease around the fastening elements, as indicated below before assembly.
• In assemblies that use a hose connection, or any other accessory for using compressed air, this must be previously assembled, before insertting the clamping spring into the fitting.

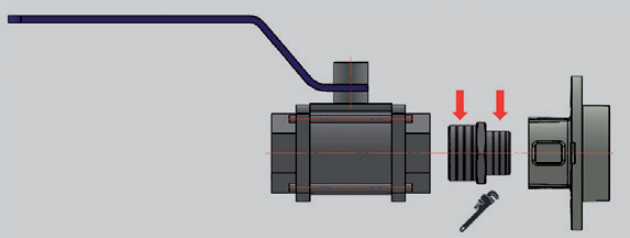
INSTALLATION



• Introduce the elements.
• Ensure that the pipe is inserted up to the stop as indicated.

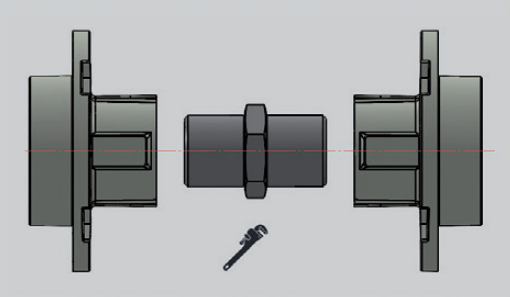
FIXING

INSTALLATION



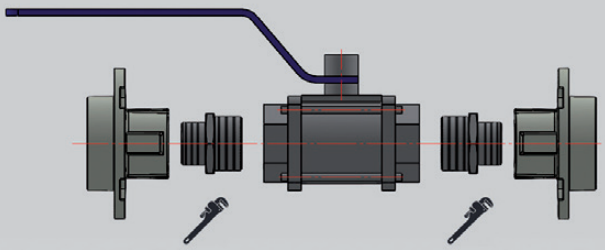
• Coupling components as shown in the imagem on the left.

INSTALLATION



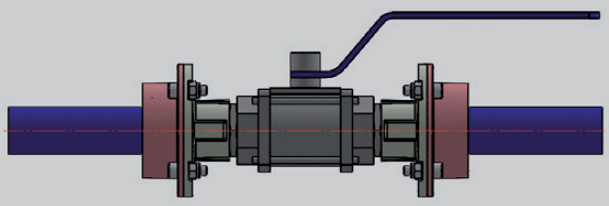
• Coupling components as shown in the imagem on the left.

INSTALLATION



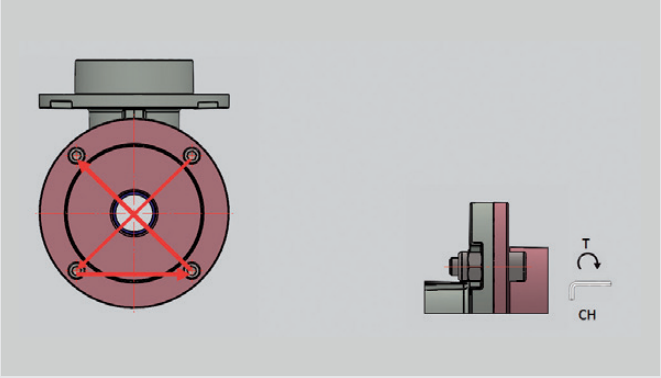
• Coupling components as shown in the imagem on the left.

INSTALLATION



• Accessories assembly.

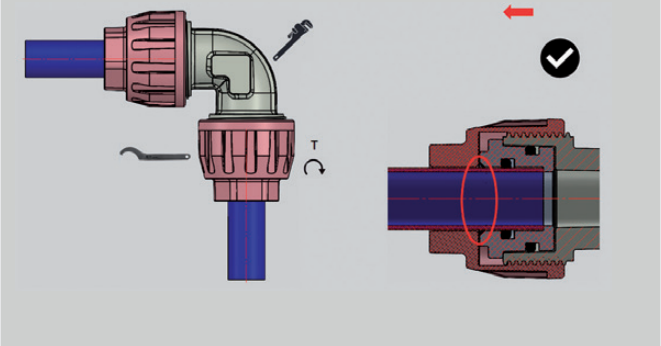
INSTALLATION



Ø Fitting (mm)	Torque (Nm)
Ø63	T 30-40 / CH 8
Ø40	T 15-25 / CH 6

• To tighten the screws following the triangle and tighten them all equally until the final torque is reached.

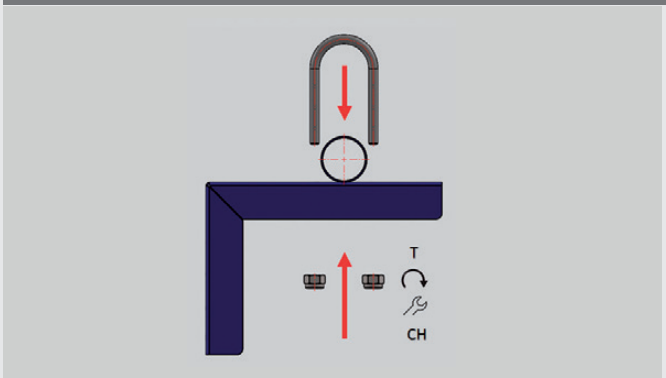
INSTALLATION



Ø Fitting (mm)	Torque (Nm)
Ø25	12 / HN 09

• To tighten the nut until the final torque is reached.

INSTALLATION



TUBO Ø (mm)	Torque (Nm) / Key
Ø63	T 15-25 / CH 14 A 17
Ø50	T 15-25 / CH 14 A 17
Ø40	T 15-25 / CH 13
Ø32	T 15-25 / CH 13
Ø25	T 15-25 / CH 13
Ø20	T 15-25 / CH 13

• To fix the pipe and tighen the nuts.
• Also applicable to the aerial braket model (KRDASUP800).

NOTES

WARNING AND WARRANTY

WARNING

- Preventive maintenance of screws must be carried out at least once a year with the appropriate records established in the Regulatory Standard number 12 (NR-12).
- Preventive maintenance of seals must be carried out at least once every five years with the appropriate records established in the Regulatory Standard number 12 (NR-12).
- Personal Protective Equipment (PPE's) must be used for both installation and maintenance of the compressed air distribution network.
- All doubts must be solved before starting work, since an inadequate installation creates the risk of ejection of fluid under pressure, which could cause damage to the equipment and/or worker.
- Do not exceed an internal pressure of 16 bar inside the air distribution network.
- Check before installation that there are no missing elements included in this manual. Therefore, the manual must be read in full before starting the installation.
- Metal Work Pneumática do Brasil Ltda is exempt from any responsability for any type of damage caused to property, people, animals which may have been caused by inadequate installation of the equipment.

WARRANTY TERM

- The product has a full warranty against any and type of failure or manufacturing problems.
- The warranty does not cover problems and/or samages caused by improper transportation or storage of the product..
- The product warranty does not cover pressure ranges, temperatures or corrossion resistance degrees other than those specified thoughout this manual.
- The product warranty does not cover failures and/or problems caused by improperty installation or use of product.
- The warranty does not apply if inappropriate fluid is used for the product.

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METAL WORK PNEUMÁTICA DO BRASIL LTDA
Rua Otacílio Jacinto Homem, 415 - Bairro Scharlau
São Leopoldo/RS - CEP 93.120-590
Tel./WhatsApp: 55 51 3590.7100
metalwork@metalwork.com.br

FILIAL SÃO PAULO
Rua Alferes Magalhães, 92 - Sala 11 - Bairro Santana
São Paulo/SP - CEP 02.034-006
Tel.: 55 11 2099.3623
WhatsApp: 55 11 95312.1631

www.metalwork.com.br