

FLAT BOSS STRAPS

TAPPING SYSTEMS

FLAT BOSS STRAPS

Flat Boss Saddles are designed for making service connections into mains pipes. A ferrule can then be inserted into the main via the strap boss whilst the main is pressurised or dry. The range provides maximum thread engagement into the boss of the saddle and tappings from ½" to 2" can be made into most flat boss straps. Solid flat boss straps can also be used as blanking straps for sealing existing holes in mains after removal of a ferrule. These straps give years of trouble free service as they are made from corrosion resistant gunmetal.



FUNCTIONS

Readies a mains pipe for the insertion of a ferrule to make a service connection.

ADVANTAGES

- Quick and simple to install**
 Quick, permanent, leak free connection provided by a tried and tested design
- Extensive range**
 A range has been developed which enables the user to make connections to almost any type of mains pipe, either underpressure or dry
- Robust and long lasting**
 Straps made from gunmetal are immune to corrosion and so give years of trouble free service.
- Reliable and leak free**
 Provides maximum thread engagement for leak free connections suitable for a working pressure up to 16 bar (240 psi).

APPLICATIONS



House connection

USES

- Making service connections to mains pipes**
 - Used on PE, PVC, fibre, cement, cast iron, ductile iron and steel mains pipes.
 - Can be used whilst the mains pipe is pressurised or dry.
 - Ferrule can be fitted using drilling and tapping equipment.
- Blanking Straps**
 - Solid flat boss straps can also be used as blanking straps for sealing existing holes in mains after removal of a ferrule.

CHARACTERISTICS

- Gunmetal material** – Selected for its strength for reliable installation as well as being light weight for easy handling. Gunmetal is to BS EN 1982:2008 CC491K.
- Standards conformity** – Meets WRAS and WIS requirements for installation in the UK.
- Range** – For all mains pipe types 58-637mm available with no tapping or ½" – 2" tapping.



APPROVALS

- Made from WRAS approved materials

OPTIONS/VARIANTS

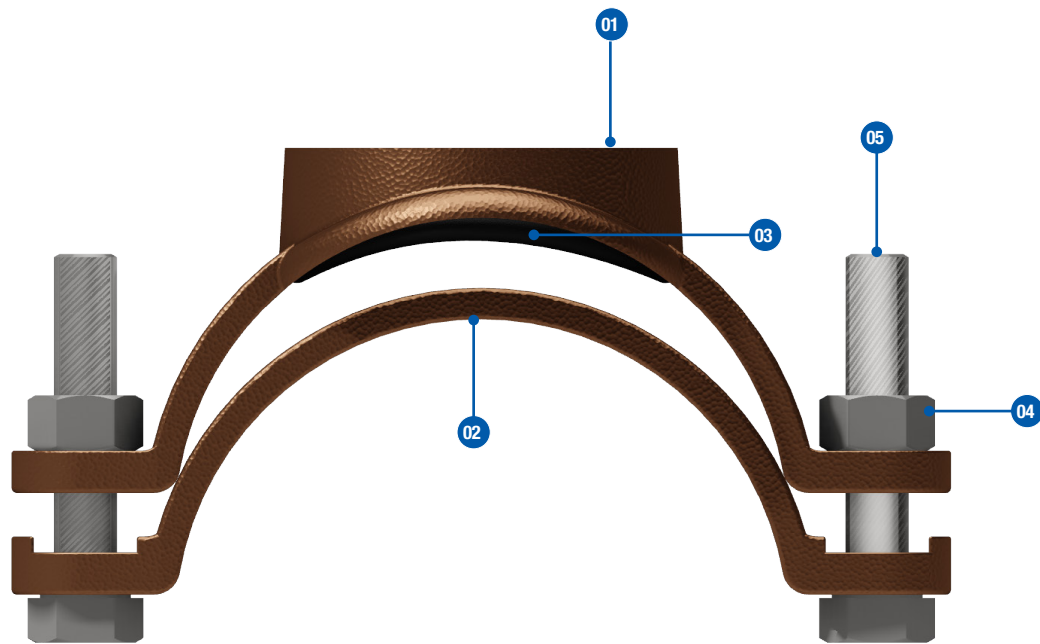
- Available in a range of different sizes for different mains pipes.
- Can be supplied with ferrule already fitted (combined ferrule strap).

TECHNICAL DATA

- Nominal Diameter (DN):** DN50 to DN600.
- Strap Material:** Gunmetal to BS EN 1982:2008 Grade CC491K.
- Tapped outlet sizes:** Solid or ½" - 2".
- Fasteners Material:** Stainless steel A4 or A2.
- Nominal Pressure (PN):** Working 16 bar, test 24 bar (up to 20°C).
- Seals:** EPDM.
- Medium Temperature:** Upto 40°C.



MATERIALS AND DIMENSIONS



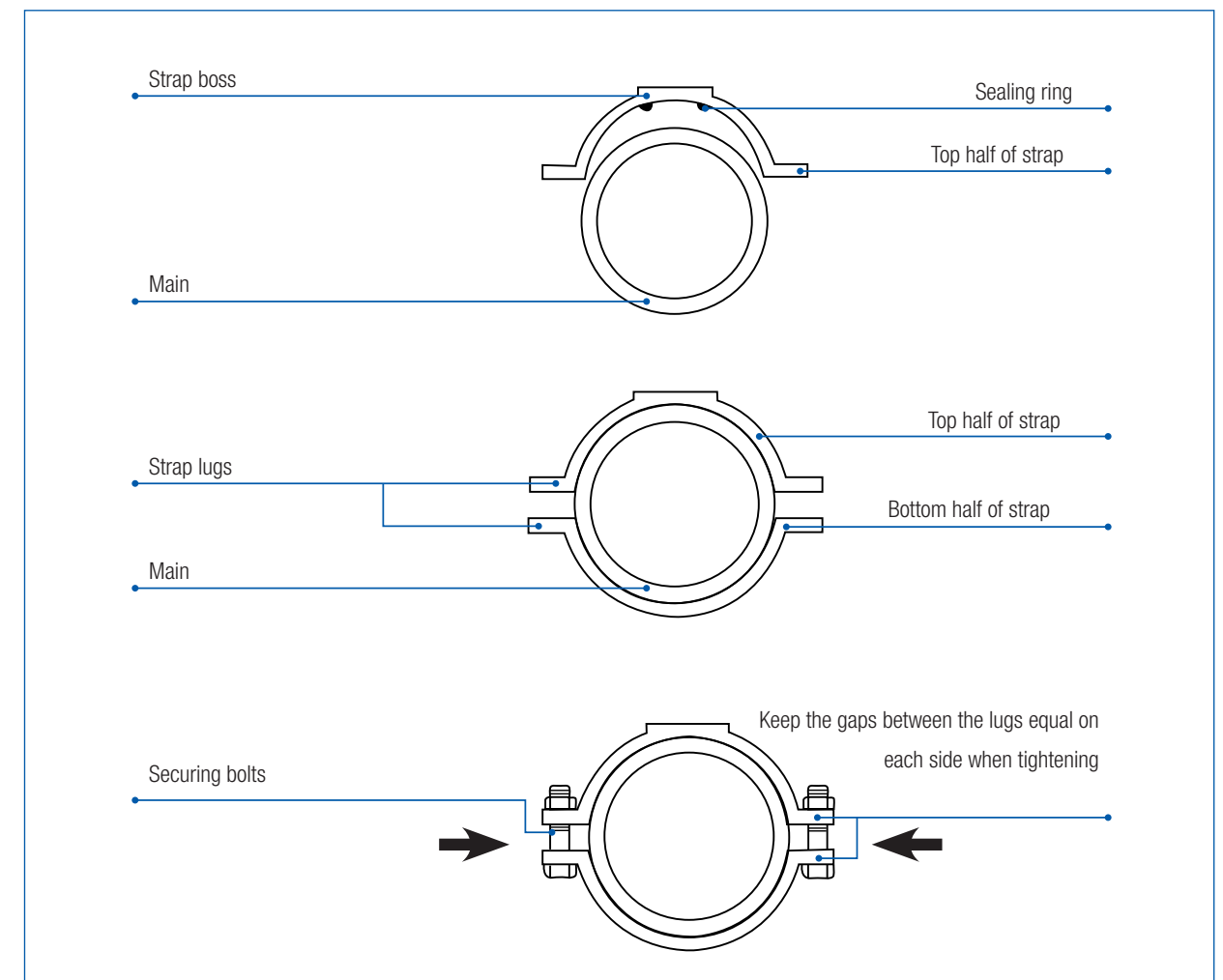
Item	Description	Quantity	Material	Standard
1	Flat Boss Saddle Strap	1	Gunmetal CC491K	EN 1982
2	GM Strap Under	1	Gunmetal CC491K	EN 1982
3	Strap o-ring seal	1	Nitrile	ISO 3601
4	M12 Full nut	2	Stainless Steel A4	-
5	M12 x 65mm screw	2	Stainless Steel A2	-

NOMINAL PIPE BORE	TYPE OF PIPE			SIZE OF TAPPING						
	Asbestos Cement/Cast Iron	Ductile Iron	PE/PVC	No tapping	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
2" (DN50)	X	-	X	X	X	X	X	-	-	-
3" (DN80)	X	X	X	X	X	X	X	X	X	
4" (DN100)	X	X	X	X	X	X	X	X	X	X
6" (DN150)	X	X	X	X	X	X	X	X	X	X
160mm (DN150)	-	-	X	X	X	X	X	X	X	X
180mm (DN150)	-	-	X	X	-	X	X	-	X	X
8" (DN200)	X	X	X	X	X	X	X	X	X	X
200mm (DN200)	-	-	X	X	-	-	-	-	X	X
9" (-)	-	-	X	X	X	X	X	-	X	-
10" (DN250)	X	X	X	X	X	X	X	X	X	X
250mm (DN250)	-	-	X	X	-	X	X	-	X	-
12" (DN300)	X	X	X	X	X	X	X	X	X	X
315mm (DN300)	-	-	X	X	-	X	X	-	X	-
14" (DN350)	-	X	-	X	-	-	-	-	-	-
16" (DN400)	-	X	-	X	-	-	X	-	-	-
20" (DN500)	-	X	-	X	-	-	-	-	-	-
24" (DN600)	-	X	-	X	-	-	-	-	-	-

For easy trouble free installation the steps detailed below should be followed:

- └ Select the correct size and type of strap for the main.
- └ Place the sealing ring in the groove in the underside of the strap boss (many straps are supplied with the sealing ring pre-bonded into position making assembly even easier) and position the upper half of the strap on the main ensuring that the sealing ring remains snug in the groove.
- └ Locate the bottom of the strap under the main below the top half of the strap.
- └ Using the two nuts and bolts provided bolt the two halves together ensuring the bolts point upwards. Finger tighten the bolts evenly, keeping the gaps between the lugs equal on each side.
- └ Check that the strap sits squarely on the main then hand tighten each nut. Tighten each nut a further two and a half turns or to a torque setting of approximately 10 lb/ft (13.6Nm). The strap is now secured to the main.

- Atplas recommends the use of a strap on ductile iron pipes below 12" (300mm) in diameter as the wall thickness is generally less than that of cast iron pipes and insufficient to tap directly without risking the threads stripping.
- Always ensure that the correct type and size of strap is used for the main.
- Always use a strap on asbestos cement, PVC and PE mains.
- Always have the strap pre-drilled by Atplas if the service valve size is known. This will make the tapping of the connection easier on site.
- Always take care when fitting the strap and ensure that the 'O' ring or sealing ring is correctly in place under the boss of the strap.
- Never over tighten the bolts on the strap. This can cause damage to the lugs or leaks to occur due to distortions in the pipe.
- Never attempt to cut the same size thread into existing, pre-drilled and tapped straps. Cutting the new thread will damage the old one.



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