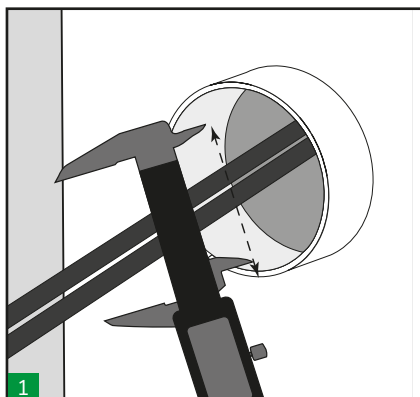




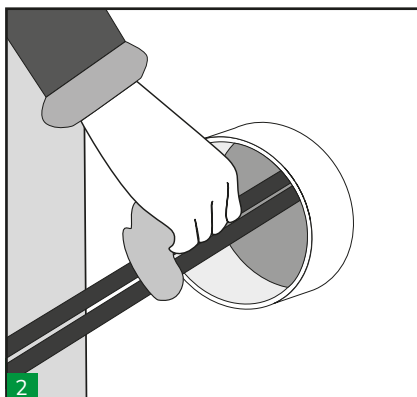
ROUND

INSTALLATION GUIDES

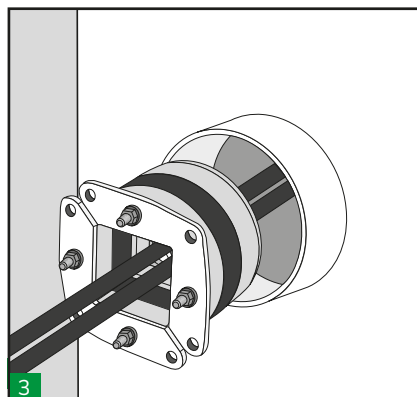
HRTO / HRT ROUND SYSTEM Standard installation guide:



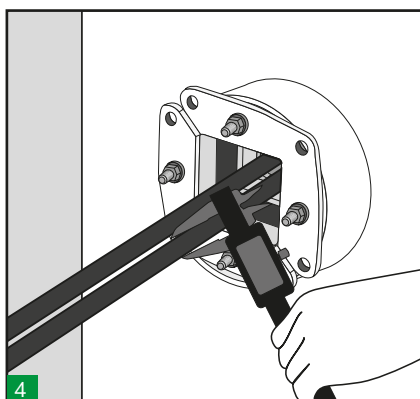
1 Measure the inside of pipe/aperture to ensure that it is within the tolerance of the round transit frame to be used.



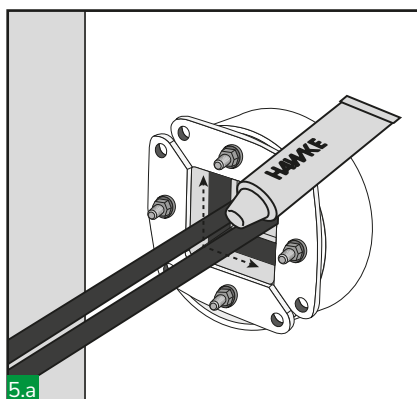
2 Make sure the frame is clean



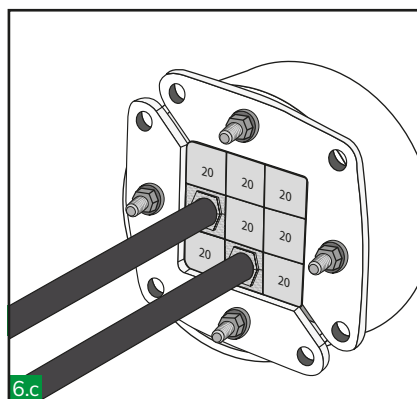
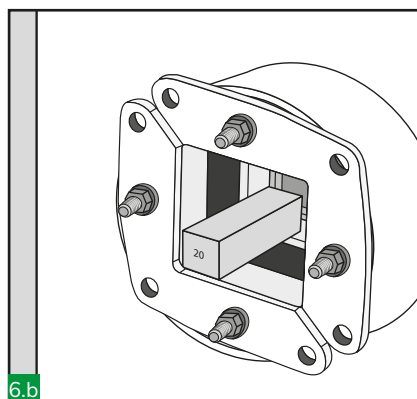
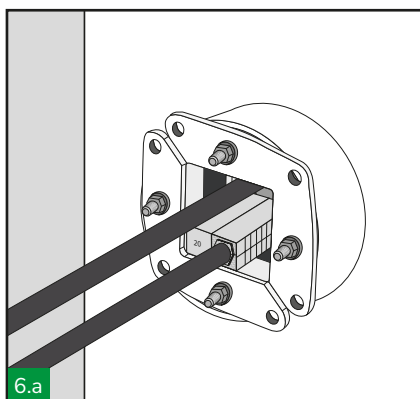
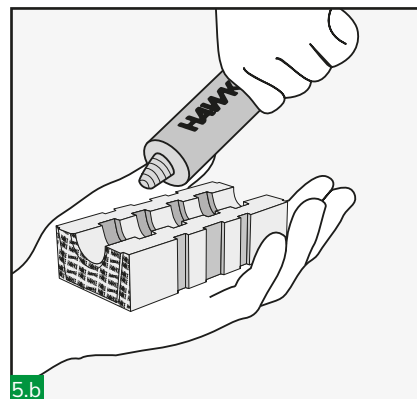
3 Insert the round transit frame completely in the sleeve/aperture around the cables. No lubricant should be applied to the aperture or outside of the frame. If close version of the Round Transit(HRT) is used, it should be installed previously to pull the cables/pipes through the sleeve or aperture.



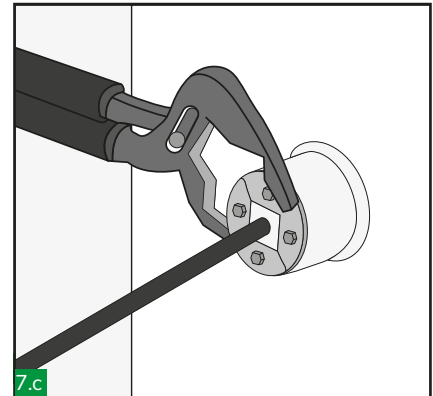
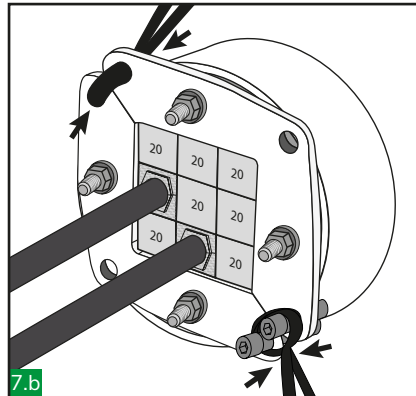
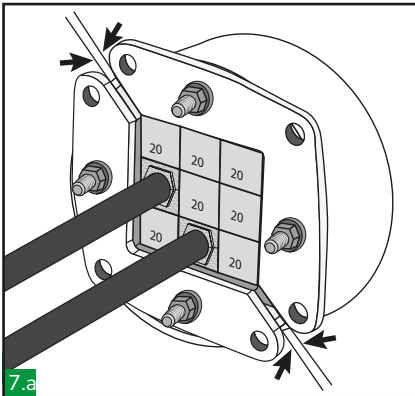
4 Take measures of the cables diameters and select the appropriate HTS Tolerant blocks. Colour code will help you to select the correct ones.



5.a Lubricate the inside of the HRTO and all the insert and blank blocks using HTS lubricant. Open the two front plates. (HRTO30, HRTO40 & HRTO50 front plates are fixed)

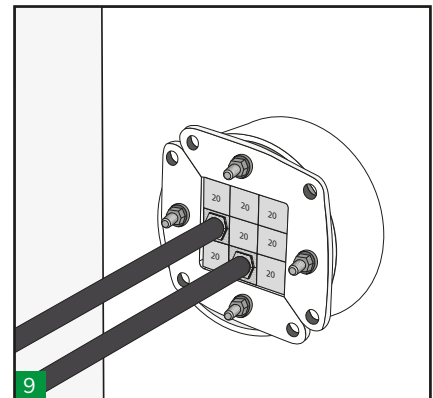
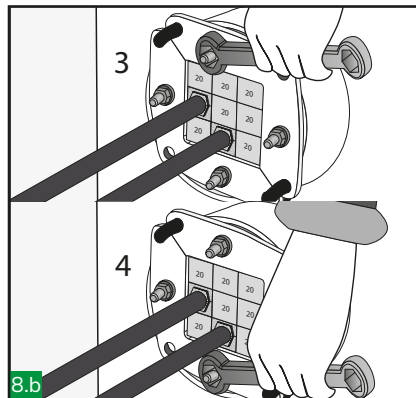
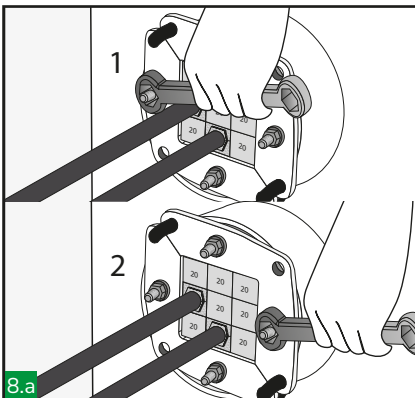


Begin packing the transit frame starting at the bottom and finishing at the top. Ensure that the blocks are pushed firmly against the rear retaining lip. Verify that the complete sealing area of this frame size (see table) is filled with blocks.



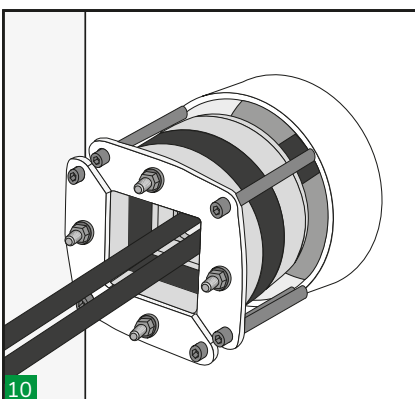
Slide the two front plates together and keep it fixed. Ensure all the blocks are located inside the front retaining lip.

For an easier installation, cable ties, bolts or adjustable pliers can be used to close this plates.



Tighten the nuts approximately 2mm each time following alternate tightening sequence, applying equal pressure to both plates. A minimum of 10 mm of thread should protrude on each bolt. Use a ratchet spanner for an easier installation.

Make a visual inspection of the transit. HTS's unique colour coding system enables the installation to be visually inspected after completion and ensures correct matching of the block halves.

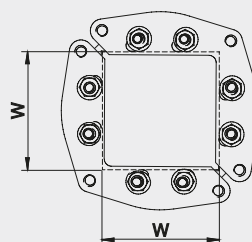


Extraction is achieved by releasing the compression, i.e. by reversing steps 7 and 8 and screwing M8 bolts (not supplied) into the threaded holes at each corner of the front plates. These releases the assembly from the aperture and allows the system to be disassembled.

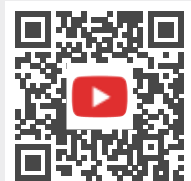
Notes

Leave the system at least 24 hours before applying pressure. For disassembly see disassembly instructions.

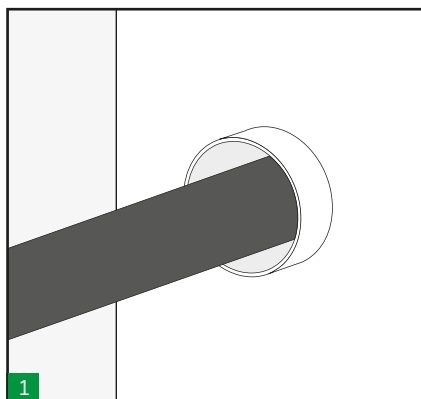
Sealing Area



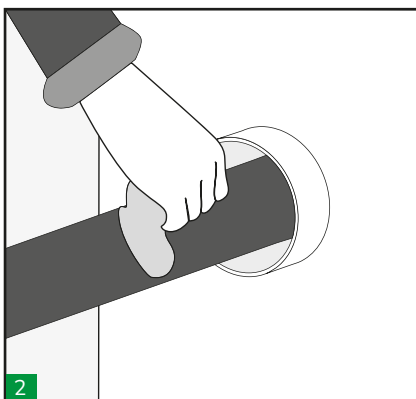
TYPE	SEALING AREA (mm)
HRT0-30	15x15
HRT0-40	20x20
HRT0-50	30x30
HRT0-70	40x40
HRT0-100	60x60
HRT0-125	80x80
HRT0-150	90x90
HRT0-200	120x120



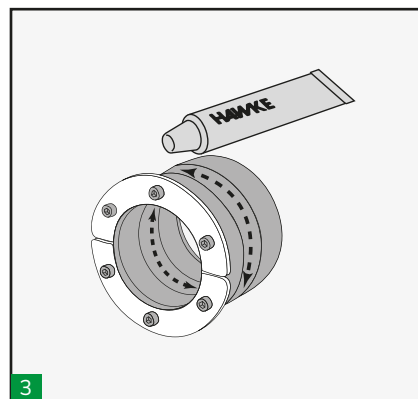
HRST ROUND SYSTEM Standard installation guide:



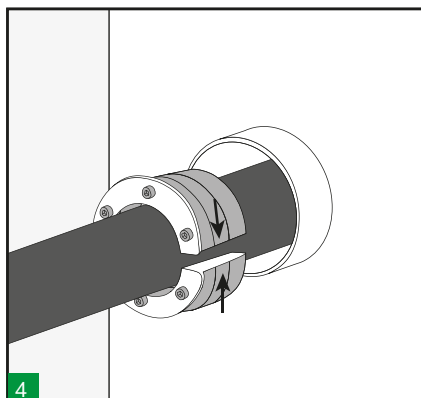
Check the inside diameter of the sleeve and the outside diameter of the cable/pipe to verify that it is within the range of selected HRST. HTS HRST colour code will help for a correct selection.



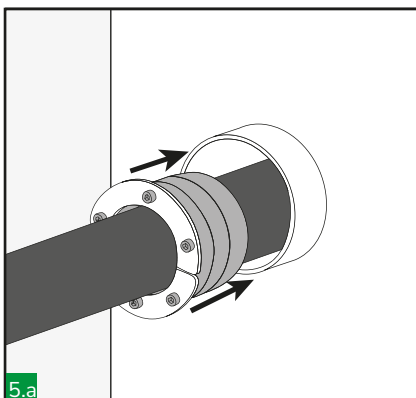
Make sure the pipe is properly centred in the sleeve. Make sure the sleeve and the cable/pipe are clean.



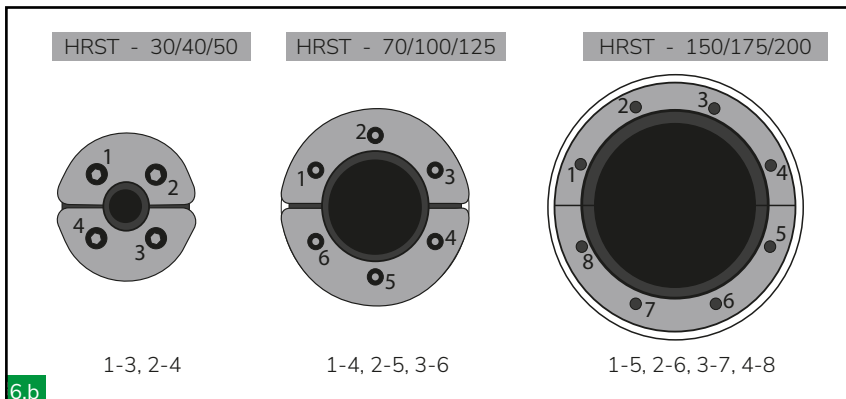
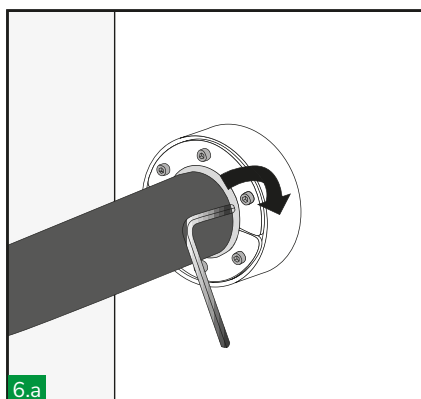
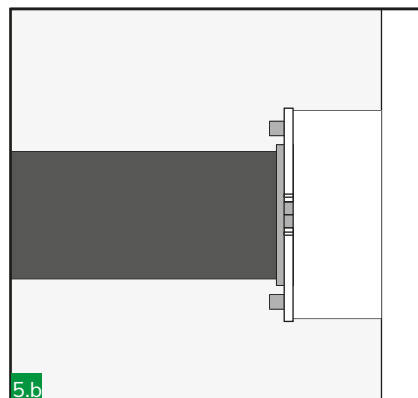
Lubricate the inside of the HRST to be in contact with the cable/pipe and lightly lubricate the outside in contact with the sleeve.



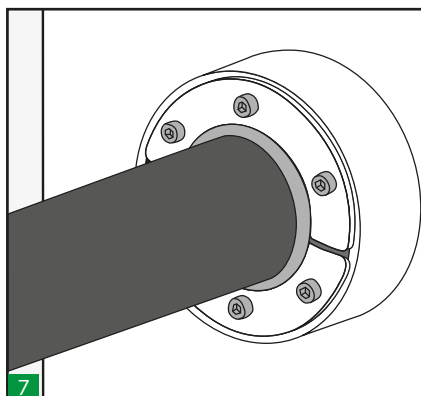
Open the HRST and install around the cable/pipe.



Insert the HRST into the sleeve. Check the HRST is completely inserted into the sleeve, front plates should be in contact with the sleeve.



Tighten the bolts. Tightening must be done in one revolution step for each bolt following next sequence until the system is enough compressed to seal the cable/pipe.



Make a visual inspection of the transit. HRST (colour code) selected match the pipe and sleeve installed, HRST is completely inserted into the sleeve, does not exist gaps between HRST and the cable/pipe.

DESCRIPTION	SLEEVE SIZE NEEDED	SEALING FROM(MM)	SEALING TO(MM)	COLOUR
HRST-30/4	30	4	10	White
HRST-30/7	30	7	14	Red
HRST-30/10	30	10	17	Blue
HRST-40/4	40	4	10	Purple
HRST-40/7	40	7	14	Yellow
HRST-40/10	40	10	17	Green
HRST-40/17	40	17	24	Pink
HRST-50/4	50	4	10	Red
HRST-50/10	50	10	17	White
HRST-50/17	50	17	24	Blue
HRST-50/24	50	24	30	Orange
HRST-70/26	70	26	33	Purple
HRST-70/33	70	33	39	Yellow
HRST-70/39	70	39	45	Green
HRST-70/45	70	45	50	Pink
HRST-100/48	100	48	55	Red
HRST-100/55	100	55	61	White
HRST-100/61	100	61	66	Blue
HRST-100/66	100	66	71	Orange
HRST-125/64	125	64	71	Purple
HRST-125/71	125	71	79	Yellow
HRST-125/79	125	79	86	Green
HRST-125/86	125	86	93	Pink
HRST-125/93	125	93	98	Orange
HRST-150/93	150	93	102	Red
HRST-150/102	150	102	108	White
HRST-150/108	150	108	115	Blue
HRST-150/115	150	115	120	Orange
HRST-175/118	175	118	125	Purple
HRST-175/125	175	125	132	Yellow
HRST-175/132	175	132	138	Green
HRST-175/138	175	138	145	Pink
HRST-200/136	200	136	143	Red
HRST-200/143	200	143	150	White
HRST-200/150	200	150	157	Blue
HRST-200/157	200	157	164	Orange
HRST-200/164	200	164	170	Yellow



Notes

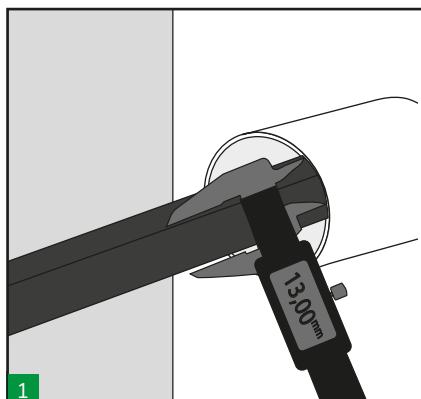
Leave the system at least 24 hours before applying pressure.



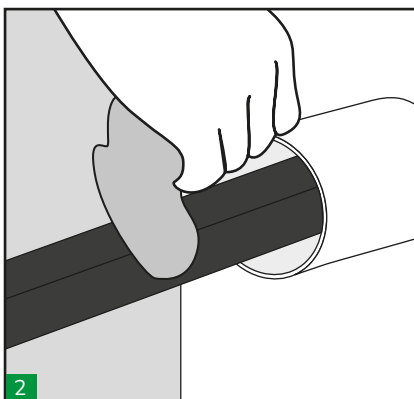
Sealing Range

Check cable/pipe sealing range in HRST catalogue page 53.

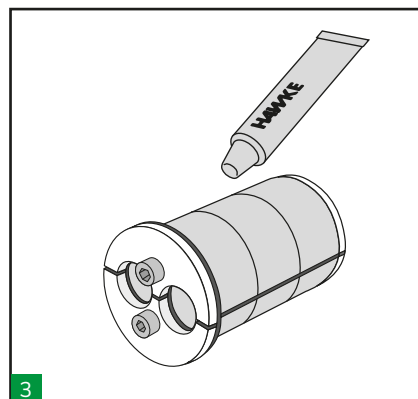
HRST MULTIHOLE ROUND SYSTEM Standard installation guide:



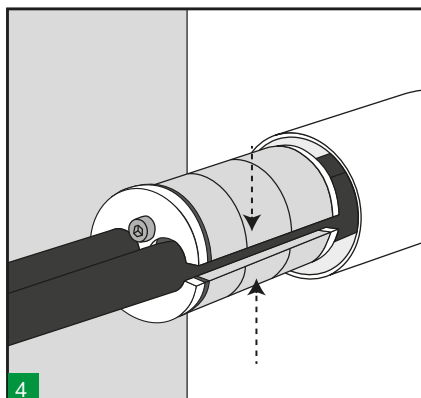
1 Check the inside diameter of the sleeve and the outside diameter of the cables to verify that it is within the range of selected HRST.



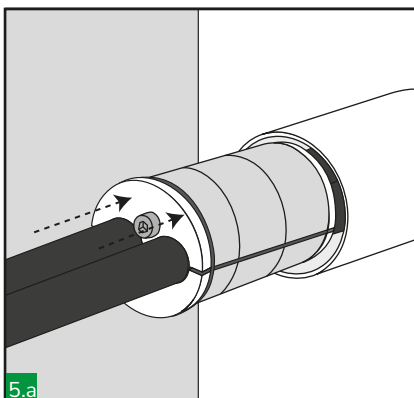
2 Make sure the sleeve and the cables are clean.



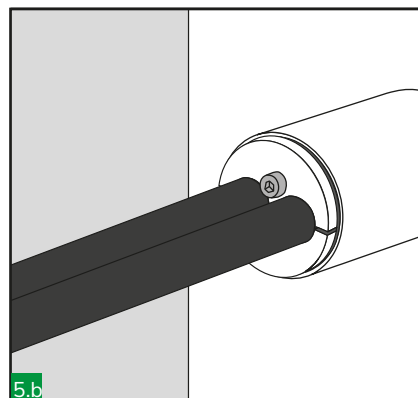
3 Lubricate the inside of the HRST to be in contact with the cables and lightly lubricate the outside in contact with the sleeve.



4 Open the HRST and install around the cables.

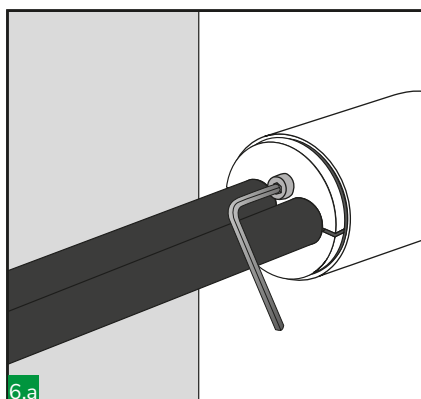


5.a

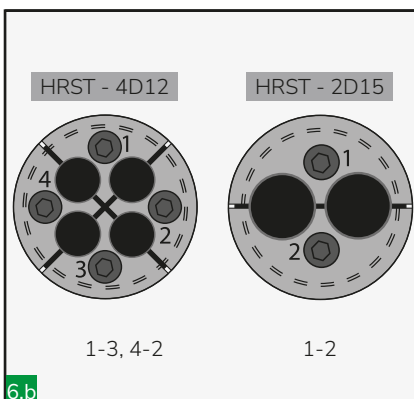


5.b

Insert the HRST into the sleeve.
Check the HRST is completely inserted into the sleeve, front plates should be in contact with the sleeve.

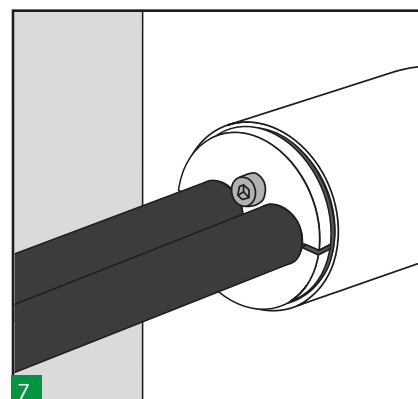


6.a



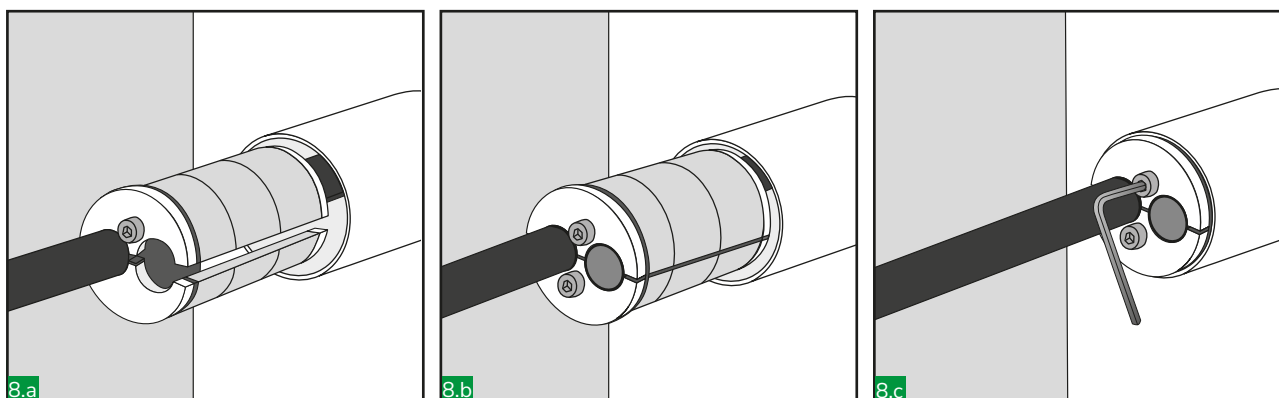
6.b

Tighten the bolts. Tightening must be done in one revolution step for each bolt following next sequence until the system is enough compressed to seal the cables.



7

Make a visual inspection of the transit.HRST selected match the cables and sleeve installed, HRST is completely inserted into the sleeve, does not exist gaps between HRST and the cable/pipe.



In case of any HRST hole are not occupied by cables always complete with HTS HRST plugs.

DESCRIPTION	SLEEVE SIZE NEEDED	NUMBER OF CABLES	SEALING FROM (mm)	SEALING TO (mm)	A (mm)	B (mm)	NUMBER OF BOLT	BOLT SIZE	WEIGHT (kg)
HRST 40 2D15	40	2	10	15	40	46	2	M5	0,17
HRST 40 4D12	40	4	8	12	40	46	4	M5	0,16

- Notes**
 Leave the system at least 24 hours before applying pressure.
- Sealing Area**
 Check cable/pipe sealing range in HRST catalogue page 54.