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1 General information and intended use

HRD-SG standard press seals are suitable for the installation and insertion of 1 to 15 cables/pipes with outer diameter 3.5 to 110 mm in core drills/wall sleeves with inner diameter 80 to 200 mm.

2 General information



- For the one-sided installation of the press seal into the core drilling, carry out the sealing on the outside of building.
- If installation is carried out correctly, it will not be necessary to tighten up the screws.
- HRD cable and pipe seals are not fixed points or bearings and therefore cannot absorb any mechanical forces.
- Any anticipated reductions must be compensated for by the installation of centring guides and/or spacers in the liners or core drillings.
- Further accessories and information at www.hauff-technik.de and in the technical data sheets.

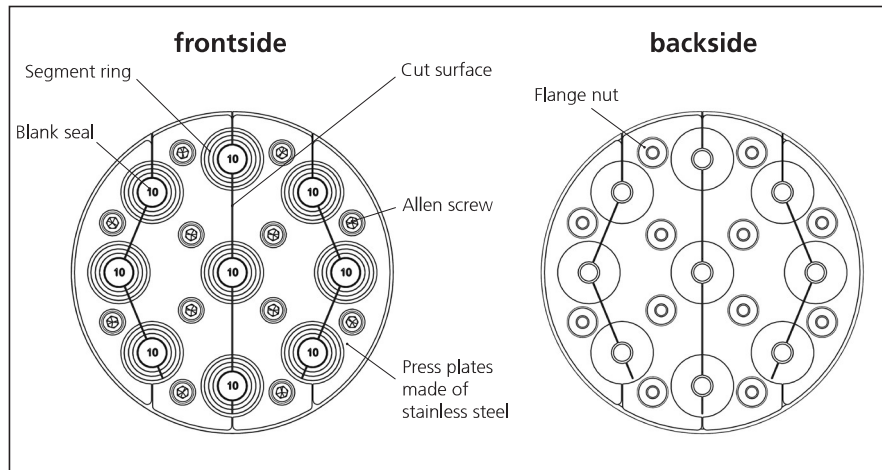
3 Safety instructions



- It is important to protect the press seal from damage, moisture and impurities during installation. Check that all necessary components have been delivered and that they are not damaged. You must not install damaged components.
- HRD cable and pipe seal installation must comply with the relevant professional association regulations, VDE provisions, national safety and accident prevention regulations as well as company regulations (work and procedural instructions).
- Do not use solvent-based cleaning agents to clean the press seals! We recommend using KR M.T.X cable cleaner.



4 Description (e.g.: HRD 150-SG-9/6-25)



5 Scope of delivery

The scope of delivery of the Standard-Press seal HRD-SG includes:

- 1 Standard-Press seal HRD-SG
- 1 GM lubricating stick (Article number: 0804020000)

6 Required tools and aids

To install the Standard-Press seal HRD-SG correctly, you will need the following tools and aids in addition to the usual tools:

- 1 torque spanner, 1/4 inch
- 1 100 mm extension, 1/4 inch
- 1 adapter for cordless screwdriver, square, 1/4 inch
- 1 Steckschlüsseinsatz, 1/4 Zoll

Legend



Workflow



Important information



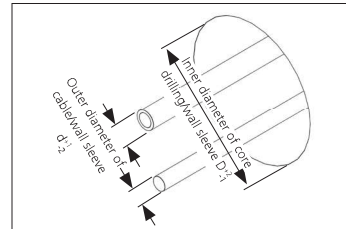
7 Installation

1

Clean the core drilling/liner and cables.
Fill and smooth any breakouts and/or cavities.
Check the dimensions of core drillings/liners D_{-1}^{+2} mm and the cable d_{-2}^{+1} mm.



- There must not be any continuous longitudinal score marks on the cables/pipes in the seal area (if necessary, move the cables/pipes slightly forwards or backwards until there are no longitudinal score marks visible).
- The inside of the wall sleeve must be clean, dry and greaseless.

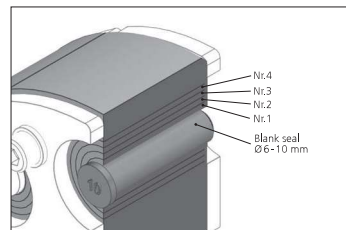
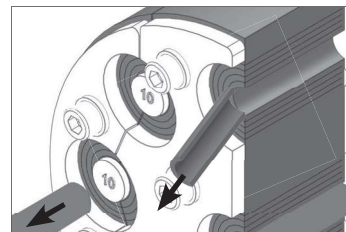
**2**

Swing open the Standard-Press seal HRD-SG, remove the relevant blank seal and push up the segment rings to separate them.

Remove the number of segment rings according to the measured cable diameter (**refer to table**).



- The number of segments that are removed must correspond at all the associated press seal sections.
- Segment rings must be removed without leaving any residue.
- If more segments are removed than necessary, the entire cable/pipe seal will need to be replaced
- Unoccupied openings must remain sealed.



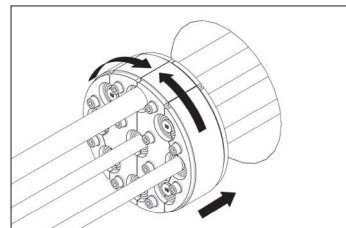
Following this, coat only the cut surfaces and cable sealing surfaces of the cable/pipe seal with GM lubricant.

3

Swing the Standard-Press seal HRD-SG over the cable and push into the core drilling/liner until it is flush with the wall face.



- Do not coat the outer sealing surface of the Standard-Press seal HRD-SG.
- The outer sealing surface of the Standard-Press seal HRD-SG must be free from grease and dry.





Standard-Press seal HRD-SG

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Segment rings must not overlap installation.

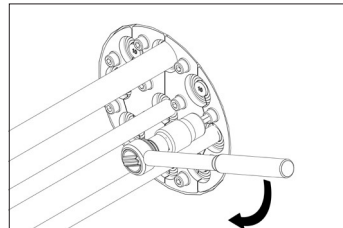


4

Finally, tighten all the allen screws in a crosswise sequence until the relevant torque is reached (**see table**).



Tighten the allen screws evenly so that the press plates will not overlap.





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Table

Application range	Segment ring	Cable size range d _a	Torque	tool set	Application range	Segment ring	Cable size range d _a	Torque	tool set
HRD 80-SG-1/6-41					HRD 104-SG-1/24-52				
1/Ø 6-41 mm	Blank seal	Ø 6-10 mm	6 Nm	internal hexagon AF5 (M6)	1/Ø 24 - 52 mm	Blank seal	Ø 24-28 mm	10 Nm	internal hexagon AF5 (M6)
	No. 1	Ø 10-14 mm				No. 1	Ø 28-32 mm		
	No. 2	Ø 14-18 mm				No. 2	Ø 32-36 mm		
	No. 3	Ø 18-22 mm				No. 3	Ø 36-40 mm		
	No. 4	Ø 22-26 mm				No. 4	Ø 40-44 mm		
	No. 5	Ø 26-30 mm				No. 5	Ø 44-48 mm		
	No. 6	Ø 30-34 mm				No. 6	Ø 48-52 mm		
	No. 7	Ø 34-38 mm							
No. 8	Ø 38-41 mm	HRD 125-SG-3/10-40							
HRD 100-SG-1/24-52					3/Ø 10-40 mm	Blank seal	Ø 10-12 mm	8 Nm	internal hexagon AF5 (M6)
1/Ø 24 - 52 mm	Blank seal	Ø 24-28 mm	No. 1	Ø 12-16 mm					
	No. 1	Ø 28-32 mm	No. 2	Ø 16-20 mm					
	No. 2	Ø 32-36 mm	No. 3	Ø 20-24 mm					
	No. 3	Ø 36-40 mm	No. 4	Ø 24-28 mm					
	No. 4	Ø 40-44 mm	No. 5	Ø 28-32 mm					
	No. 5	Ø 44-48 mm	No. 6	Ø 32-36 mm					
	No. 6	Ø 48-52 mm	No. 7	Ø 36-40 mm					
HRD 100-SG-2/8-30-3/4-16,5					HRD 125-SG-6/6-31				
2/Ø 8-30 mm	Blank seal	Ø 8-10 mm	6 Nm	internal hexagon AF5 (M6)	6/Ø 6-31 mm	Blank seal	Ø 6-8 mm	8 Nm	internal hexagon AF5 (M6)
	No. 1	Ø 10-14 mm				No. 1	Ø 8-12 mm		
	No. 2	Ø 14-18 mm				No. 2	Ø 12-16 mm		
	No. 3	Ø 18-22 mm				No. 3	Ø 16-20 mm		
	No. 4	Ø 22-26 mm				No. 4	Ø 20-24 mm		
	No. 5	Ø 26-30 mm				No. 5	Ø 24-28 mm		
3/Ø 4-16,5 mm	Blank seal	Ø 4-5 mm	8 Nm	internal hexagon AF5 (M6)	HRD 125-SG-10/4-16,5				
	No. 1	Ø 5-7 mm			10/Ø 4-16,5 mm	Blank seal	Ø 4-8 mm	8 Nm	internal hexagon AF5 (M6)
	No. 2	Ø 7-11 mm				No. 1	Ø 8-12 mm		
	No. 3	Ø 11-16,5 mm				No. 2	Ø 12-16,5 mm		
HRD 100-SG-4/8-30					HRD 150-SG-1/12-75				
4/Ø 8-30 mm	Blank seal	Ø 8-10 mm	10 Nm	internal hexagon AF5 (M6)	1/Ø 12 - 75 mm	Blank seal	Ø 12 mm	12 Nm	internal hexagon AF6 (M8)
	No. 1	Ø 10-14 mm				No. 1	Ø 13-20 mm		
	No. 2	Ø 14-18 mm				No. 2	Ø 20-28 mm		
	No. 3	Ø 18-22 mm				No. 3	Ø 28-36 mm		
	No. 4	Ø 22-26 mm				No. 4	Ø 36-44 mm		
	No. 5	Ø 26-30 mm				No. 5	Ø 44-51 mm		
HRD 100-SG-8/4-16,5						No. 6	Ø 51-59 mm		
8/Ø 4-16,5 mm	Blank seal	Ø 4-7 mm	8 Nm	internal hexagon AF5 (M6)		No. 7	Ø 59-67 mm		
	No. 1	Ø 7-11 mm			No. 8	Ø 67-75 mm			
	No. 2	Ø 11-16,5 mm							
HRD 104-SG-4/8-30					1/Ø 75 - 110 mm	Blank seal	Ø 75-77 mm	6 Nm	internal hexagon AF5 (M6)
4/Ø 8-30 mm	Blank seal	Ø 8-10 mm	10 Nm	internal hexagon AF5 (M6)		No. 1	Ø 77-82 mm		
	No. 1	Ø 10-14 mm				No. 2	Ø 82-89 mm		
	No. 2	Ø 14-18 mm				No. 3	Ø 89-96 mm		
	No. 3	Ø 18-22 mm				No. 4	Ø 96-103 mm		
	No. 4	Ø 22-26 mm				No. 5	Ø 103-110 mm		
No. 5	Ø 26-30 mm								



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Table

Application range	Segment ring	Cable size range d_a	Torque	tool set	Application range	Segment ring	Cable size range d_a	Torque	tool set
HRD 150-SG-3/22-54					HRD 200-SG-3/6-54-4/6-26				
3/Ø 22-54 mm	Blank seal	Ø 22-23 mm	10 Nm	internal hexagon AF5 (M6)	4/Ø 6-26 mm	Blank seal	Ø 6-10 mm	25 Nm	hexagon socket AF17 (M10)
	No. 1	Ø 23-27 mm				No. 1	Ø 10-14 mm		
	No. 2	Ø 27-31 mm				No. 2	Ø 14-18 mm		
	No. 3	Ø 31-35 mm				No. 3	Ø 18-22 mm		
	No. 4	Ø 35-39 mm				No. 4	Ø 22-26 mm		
	No. 5	Ø 39-43 mm			Blank seal	Ø 6-10 mm			
	No. 6	Ø 43-47 mm			No. 1	Ø 10-14 mm			
	No. 7	Ø 47-51 mm			No. 2	Ø 14-18 mm			
No. 8	Ø 51-54 mm	No. 3	Ø 18-22 mm						
HRD 150-SG-4/8-30-6/4-16,5					3/Ø 6-54 mm	No. 4	Ø 22-26 mm		
4/Ø 8-30 mm	Blank seal	Ø 8-10 mm	No. 5	Ø 26-30 mm					
	No. 1	Ø 10-14 mm	No. 6	Ø 30-34 mm					
	No. 2	Ø 14-18 mm	No. 7	Ø 34-38 mm					
	No. 3	Ø 18-22 mm	No. 8	Ø 38-42 mm					
	No. 4	Ø 22-26 mm	No. 9	Ø 42-46 mm					
6/Ø 4-16,5 mm	No. 5	Ø 26-30 mm	No. 10	Ø 46-50 mm					
	Blank seal	Ø 4-5 mm	No. 11	Ø 50-54 mm					
	No. 1	Ø 5-7 mm	HRD 200-SG-7/10-32-8/3,5-16,5						
No. 2	Ø 7-11 mm	7/Ø 10-32 mm	Blank seal	Ø 10-12 mm		12 Nm	hexagon socket AF13 (M8)		
No. 3	Ø 11-16,5 mm		No. 1	Ø 12-16 mm					
HRD 150-SG-6/8-35					No. 2			Ø 16-20 mm	
6/Ø 8-35 mm	Blank seal		Ø 8-11 mm	10 Nm	internal hexagon AF5 (M6)			No. 3	Ø 20-24 mm
	No. 1		Ø 11-15 mm					No. 4	Ø 24-28 mm
	No. 2	Ø 15-19 mm	No. 5					Ø 28-32 mm	
	No. 3	Ø 19-23 mm	Blank seal					Ø 3,5-4 mm	
	No. 4	Ø 23-27 mm	No. 1					Ø 4-8 mm	
	No. 5	Ø 27-31 mm	No. 2					Ø 8-12 mm	
No. 6	Ø 31-35 mm	No. 3	Ø 12-16,5 mm						
HRD 150-SG-9/6-25									
9/Ø 6-25 mm	Blank seal	Ø 6-9 mm	6 Nm	internal hexagon AF5 (M6)					
	No. 1	Ø 9-13 mm							
	No. 2	Ø 13-17 mm							
	No. 3	Ø 17-21 mm							
No. 4	Ø 21-25 mm								