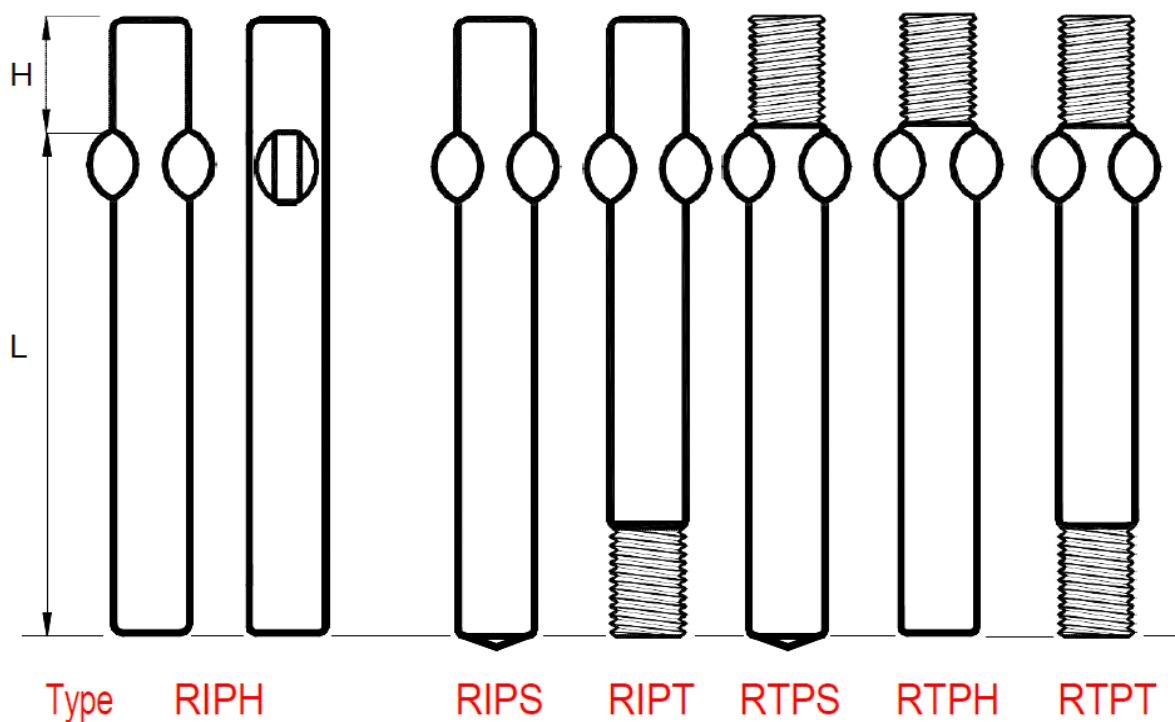


The R-PIN System



Commenced On : 17.1.2014	Drawn by: Tvikon s.r.o.	Product description: R-PIN System	
Tvikon		This drawing is the property of Tvikon s.r.o. Unauthorized use of patented features and / or and reproduction of this drawing is strictly prohibited.	R-PIN System
Tvikon s.r.o., U Landronky 1145/42, 169 00 Praha 6, Břevnov, tvikon@tvikon.cz, Phone: +420775908330			Dwg nr. T-14/60

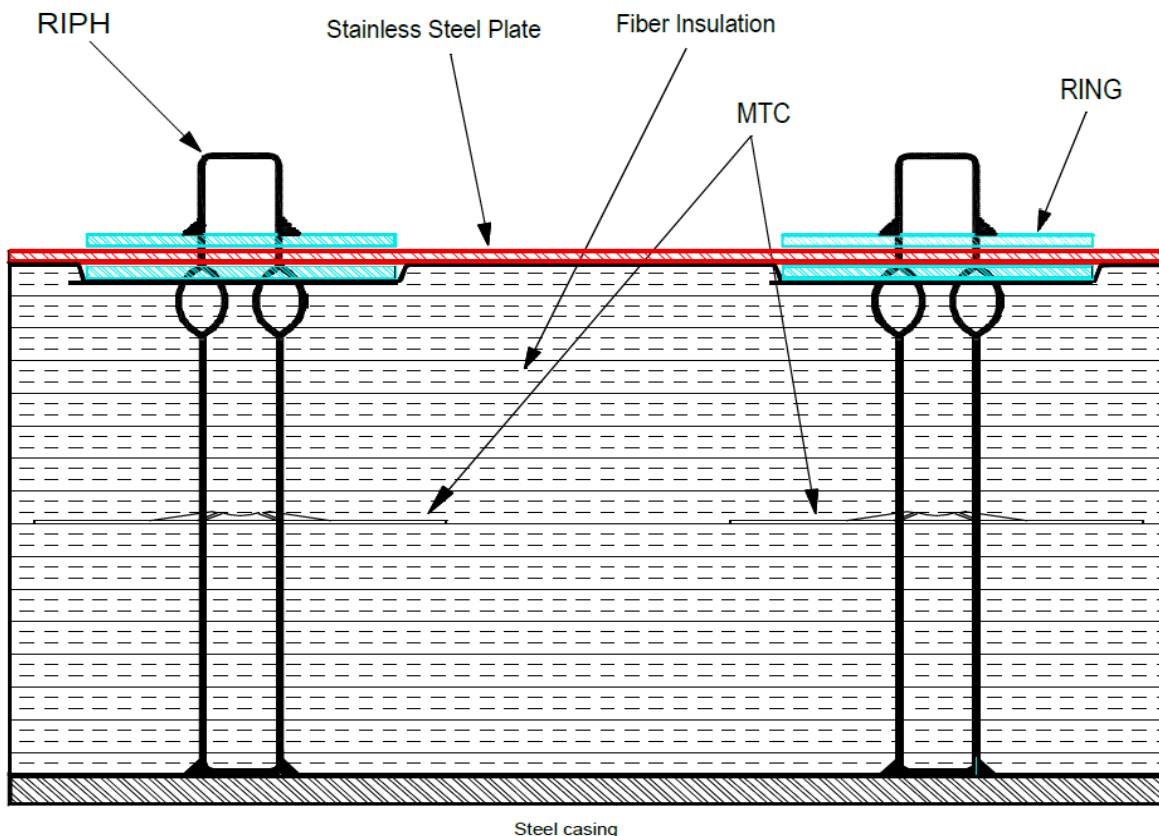
The R-PIN System

Relative movements occur between the steel housing of a plant component and the refractory lining, particularly during heating and cooling. The reason is the different warming and cooling times of various layers. As a result unexpected stress can be created, leading to premature crack formation in the refractory concrete and reducing the service life of the plant.

Tvikon has developed an anchoring system in the R-PIN Series to compensate these relative movements.

The R-PIN Series with different threaded pins is suitable for single or multilayer construction. For multilayer construction the threaded pin is mounted first, which Tvikon supplies both in a stud welding version and a version for manual welding. Since no anchors that are spread open are in the way, it is easy to install the block insulation. The anchor with its mounting system is then screwed onto the stud bolts.

This system is particularly suited for high gas velocity ducts. Several pin system can be used to facilitate mounting of steel plates.



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R-PIN System

Dwg nr. T-14/61

Ordering examples and standard alloys available			
Example			
RIPH. 10 - 150(30) - 310			
↑	↑	↑	↑
Anchor type	Diameter	Length L (Head H)	Alloy type

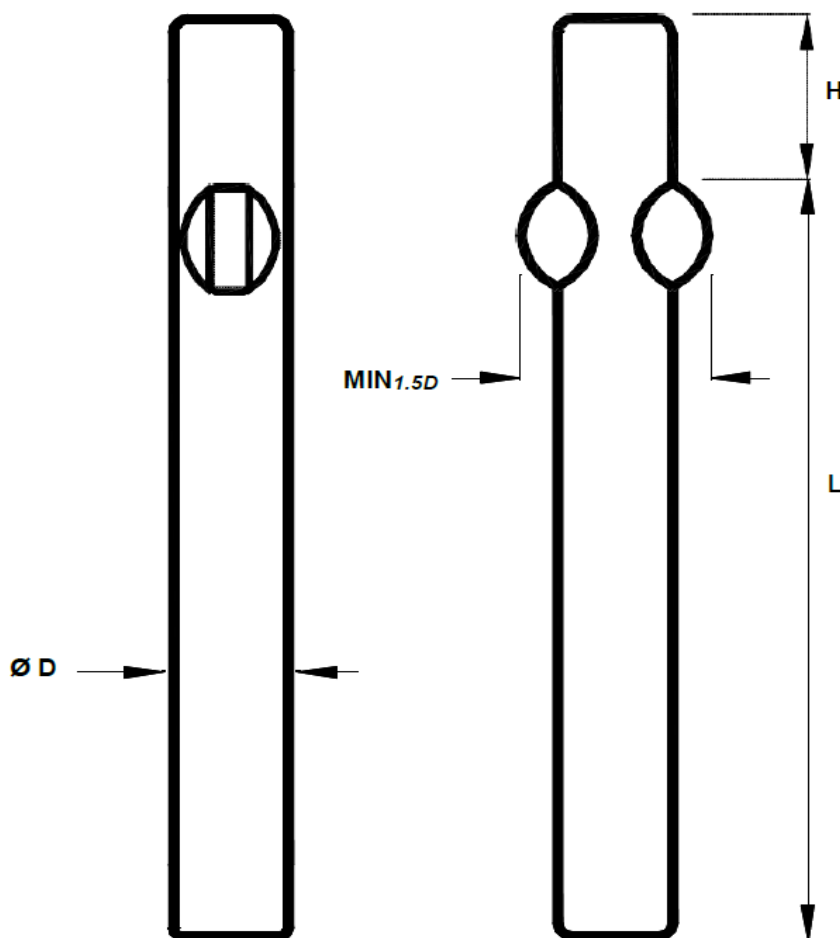
RIPH

D_{max} = 12 mm

D_{min} = 5 mm

L_{max} = 350 mm

L_{min} = 30 mm



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R-PIN System

Dwg nr. T-14/62

Ordering examples and standard alloys available			
Example			
RIPS. 10 - 60(20) - 310			
↑	↑	↑	↑
Anchor type	Diameter	Length L (Head H)	Alloy type

RIPS

D_{max} = 12 mm

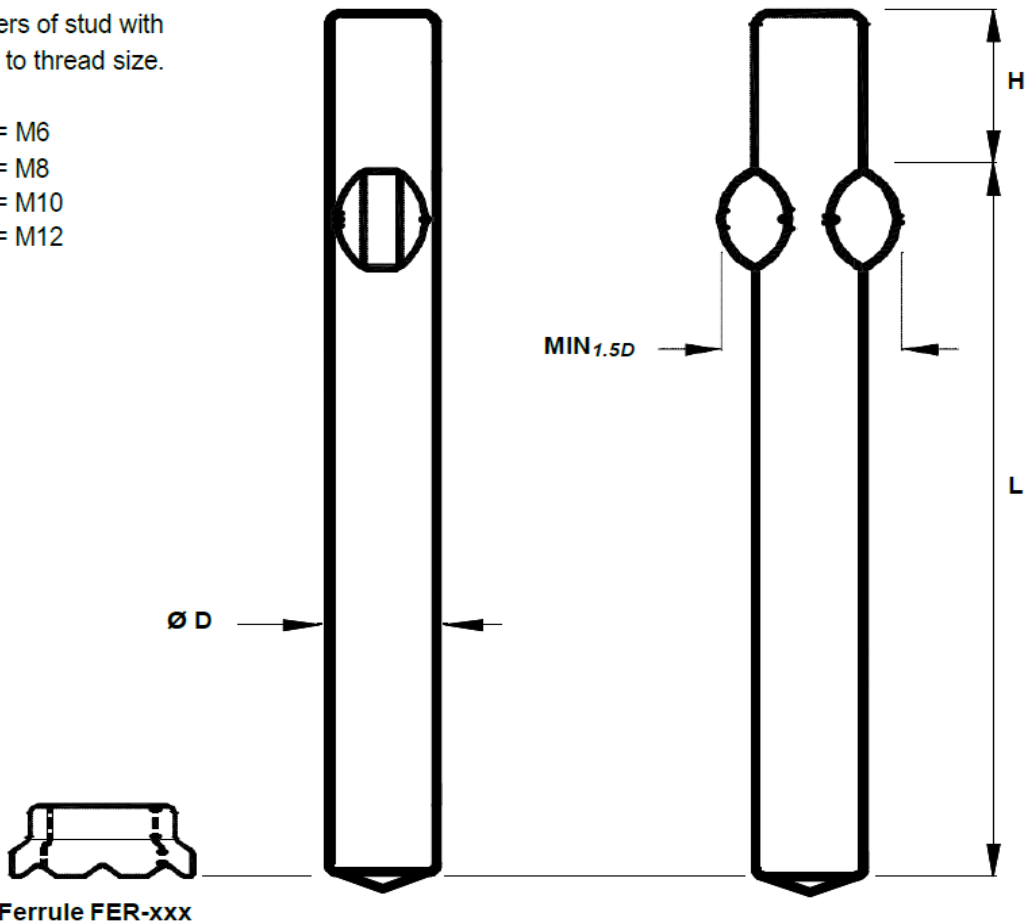
D_{min} = 5 mm

L_{max} = 350 mm

L_{min} = 30 mm

Diameters of stud with respect to thread size.

- D 5.25 = M6
- D 7.12 = M8
- D 8.90 = M10
- D 10.76 = M12



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R-PIN System

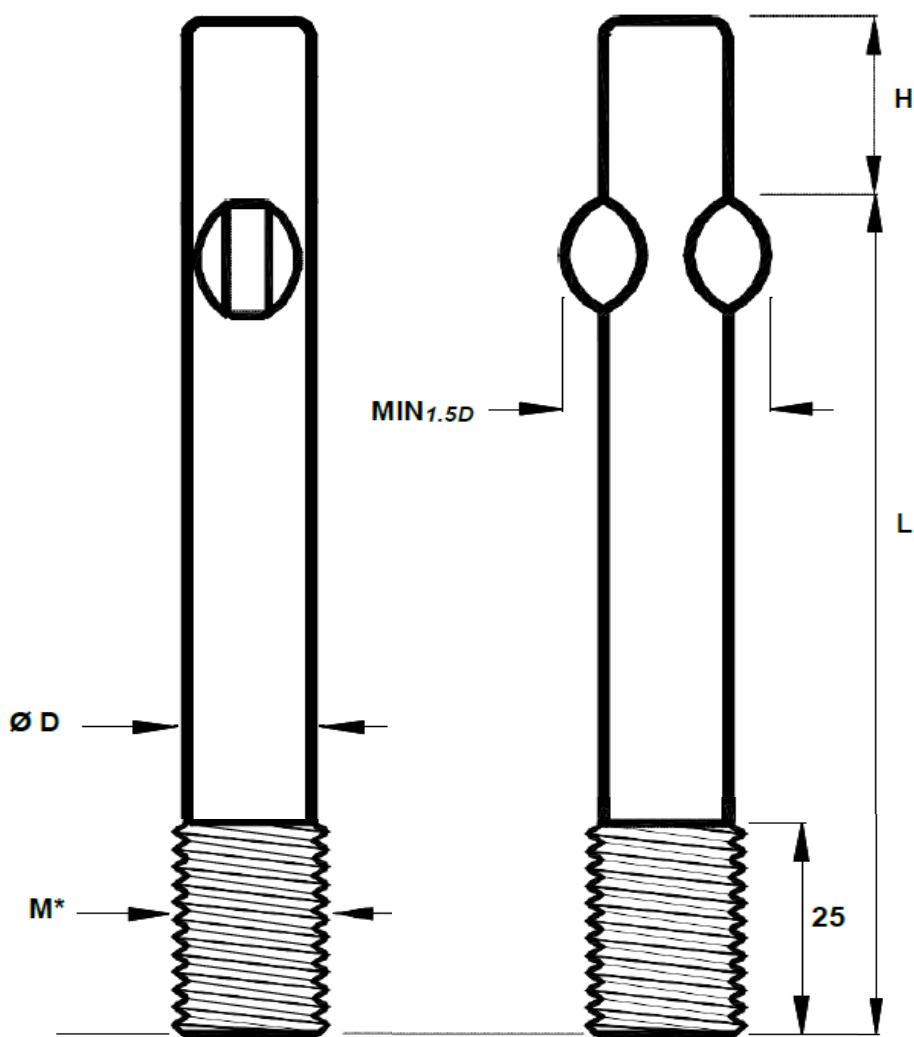
Dwg nr. T-14/63

Ordering examples and standard alloys available			
Example			
<p>RIPT. 10 - 120(20) - 310</p> <p style="text-align: center;"> </p>			
Anchor type	Diameter	Length L (Head H)	Alloy type

RIPT

D_{max} = 12 mm
D_{min} = 5 mm

L_{max} = 350 mm
L_{min} = 50 mm



These anchors are fixed by bolting

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R-PIN System

Dwg nr. T-14/64

Ordering examples and standard alloys available			
Example			
RTPH. 10 - 125(30) - 310			
↑	↑	↑	↑
Anchor type	Diameter	Length L (Head H)	Alloy type

RTPH

D_{max} = 12 mm

D_{min} = 5 mm

L_{max} = 350 mm

L_{min} = 50 mm

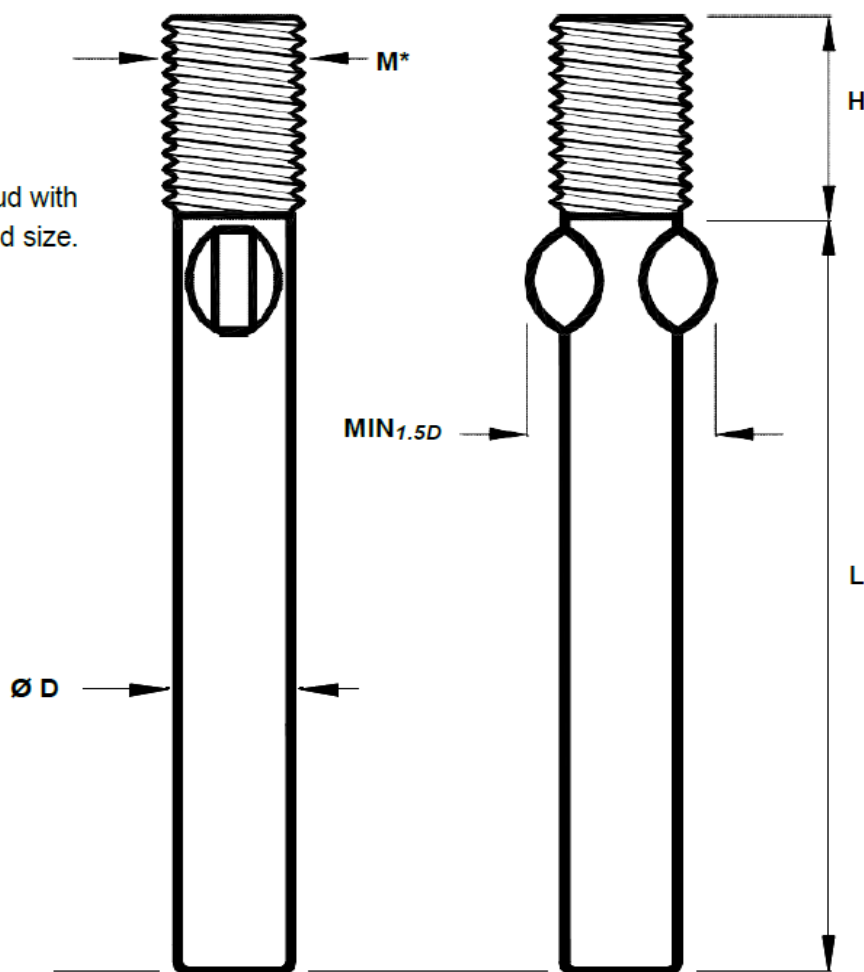
Diameters of stud with respect to thread size.

D 5.25 = M6

D 7.12 = M8

D 8.90 = M10

D 10.76 = M12



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R-PIN System

Dwg nr. T-14/65

Ordering examples and standard alloys available			
Example			
RTPS. 12 - 150(30) - 330			
↑	↑	↑	↑
Anchor type	Diameter	Length L (Head H)	Alloy type

RTPS

D_{max} = 12 mm

D_{min} = 5 mm

L_{max} = 350 mm

L_{min} = 50 mm

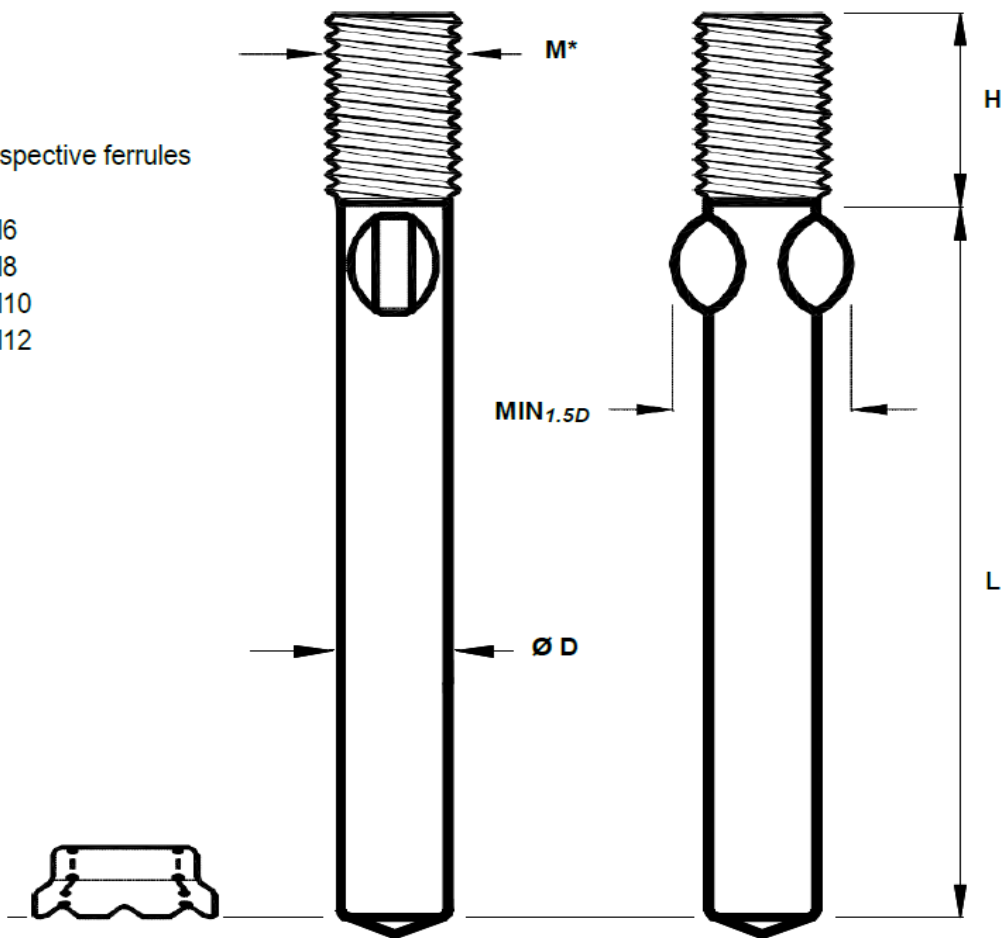
Use the respective ferrules

D 5.25 = M6

D 7.12 = M8

D 8.90 = M10

D10.76 = M12



Ferrule FER-xxx

These anchors are suitable for Stud welding only

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R-PIN System

Dwg nr. T-14/66

Ordering examples and standard alloys available	
Example	
<p>RTPT. 12 - 100(30) - 330</p> <p style="text-align: center;"> </p>	
Anchor type	Diameter Length L (Head H) Alloy type

RTPT

D_{max} = 12 mm

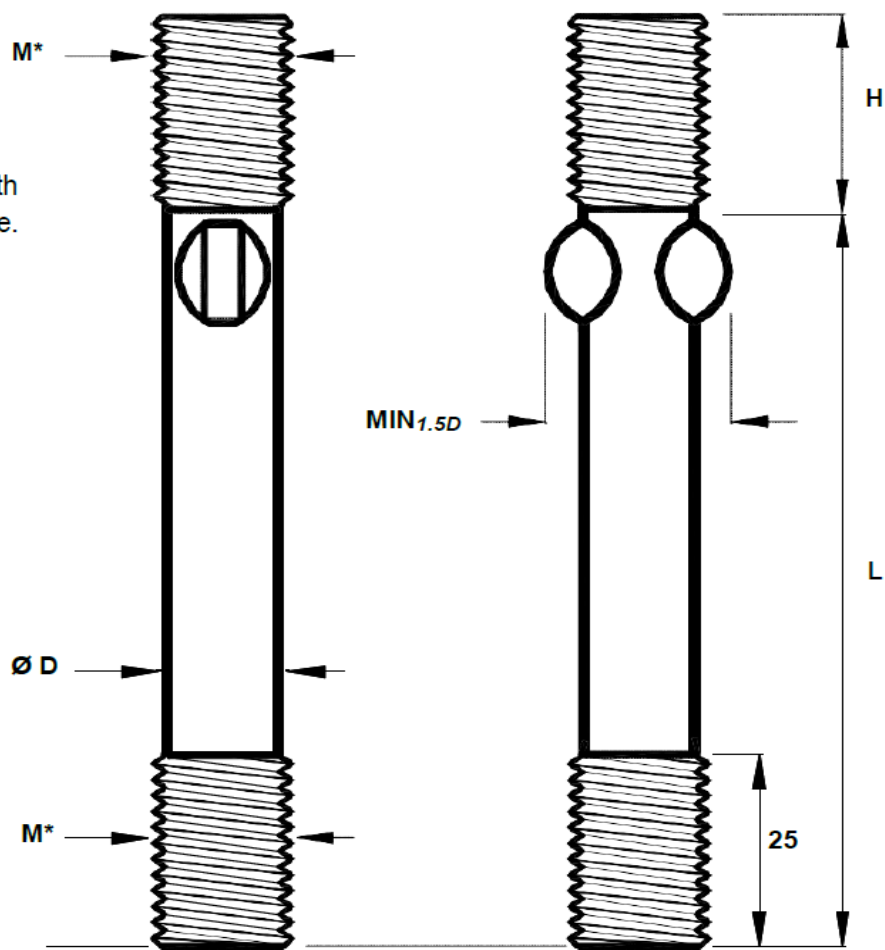
D_{min} = 5 mm

L_{max} = 350 mm

L_{min} = 50 mm

Diameters of stud with respect to thread size.

- D 5.25 = M6
- D 7.12 = M8
- D 8.90 = M10
- D 10.76 = M12



These anchors are fixed by bolting

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R-PIN System

Dwg nr. T-14/67

Ordering examples and standard alloys available			
Example			
STSR. 50 - 010(3.0) - 310			
↑	↑	↑	↑
Anchor type	Dia/Square(H)	Thread M / Thick (S)	Alloy type

STRN/STRS

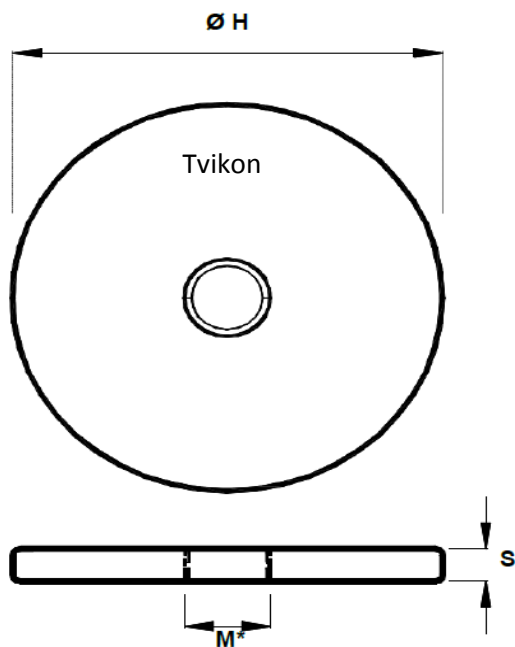
H_{max} = 90 mm

H_{min} = 25 mm

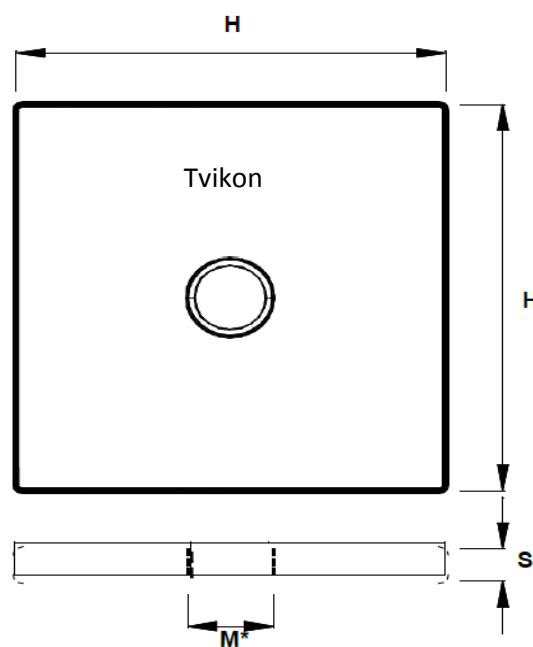
S_{max} = 3.0 mm

S_{min} = 1.0 mm

STRN / STSR SCREW-ON WASHERS ARE ALWAYS THREADED



STRN



STRS

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R-PIN System

Dwg nr. T-14/68

Ordering examples and standard alloys available		<h1>SRIN/SSRN</h1> <p>H_{max} = 90 mm H_{min} = 25 mm</p> <p>S_{max} = 3.0 mm S_{min} = 1.0 mm</p>
<p>Example</p> <p style="font-size: 24pt; font-weight: bold;">SSRN. 60 - 010(2.0) - 310</p> <div style="display: flex; justify-content: space-around; align-items: center; margin-top: 10px;"> <div style="text-align: center;">↑</div> <div style="text-align: center;">↑</div> <div style="text-align: center;">↑</div> <div style="text-align: center;">↑</div> </div> <div style="display: flex; justify-content: space-around; margin-top: 5px;"> Anchor type Dia/Square(H) Thread M / Thick (S) Alloy type </div>		
<p>SRIN</p>	<p>SSRN</p>	
<p>IMPORTANT !!! Ø D_p = Pin or Thread diameter + 0,5 mm</p> <p>Always specify PIN (Ø D) or THREAD (M) DIAMETER in Product Code</p>		
<h1 style="color: red;">Tvikon</h1>		<p>This drawing is the property of Tvikon s.r.o. Unauthorized use of patented features and / or and reproduction of this drawing is strictly prohibited.</p>
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