

DIN 3570

U-bolts for pipes



Standard	DIN 3570		
Product Type	Round steel straps (U-bolts) for tubes of NW 20 to 500. The size code a is the strap inside diameter - not the thread diameter and not the tube nominal width; the thread is designated separately (M10 to M24). Each size lists one or two discrete compatible tube outside diameters, not a continuous range. Type A and Type B differ in height; Type B is listed only up to NW 80.		
Material	Stainless Steel, Carbon Steel		
Property Class	A2-70, A4-80 (ISO 3506-1) · 4.8 (ISO 898-1)		
Surface Finish	Passivated, Plain, Zinc Plated, Hot Dip Galvanized		
Size Range	23 - 530	Thread	ISO metric coarse pitch

BASIS OF SPECIFICATION

WHICH STANDARD GOVERNS WHAT

Dimensions to	DIN 3570:1968-10
Carbon steel / Alloy steel mechanical properties to	ISO 898-1:2013
Stainless steel mechanical properties to	ISO 3506-1:2020

MECHANICAL PROPERTIES

REQUIRED VALUES PER ISO 3506-1

Class	Rm min.	Yield requirement	Elongation requirement	Hardness	Source
A2-70	700 MPa	Rp0.2 min. 450 MPa	0,4d mm	-	ISO 3506-1
A4-80	800 MPa	Rp0.2 min. 600 MPa	0,3d mm	-	ISO 3506-1

MECHANICAL PROPERTIES

REQUIRED VALUES PER ISO 898-1

Class	Rm min.	Yield requirement	Elongation requirement	Hardness	Source
4.8	420 MPa	Rpf min. 340 MPa (not a test value)	Af min. 0.24	130 - 220 HV	ISO 898-1

DIMENSIONAL DATA - SIZES WE SUPPLY

ALL DIMENSIONS PER THE STANDARD

d	d1 (min)	d1 (max)	d2	d3	e	h1	d	d1 (min)	d1 (max)	d2	d3	e	h1
Diameter - mm	Pipe OD - mm	Pipe OD - mm	Rod Diameter - mm	Thread Size	Inside Width - mm	Overall Height - mm	Diameter - mm	Pipe OD - mm	Pipe OD - mm	Rod Diameter - mm	Thread Size	Inside Width - mm	Overall Height - mm
23	20	21	10	M10	33	60	64	57	60.3	12	M12	76	109
30	25	26.9	10	M10	40	70	82	76.1	76.1	12	M12	94	125
38	30	33.7	10	M10	48	76	94	88.9	88.9	12	M12	106	138
46	38	42.4	10	M10	56	86	120	108	114.3	16	M16	136	171
52	44.5	48.3	10	M10	62	92							

FURTHER SIZES IN THIS STANDARD

ALL DIMENSIONS PER THE STANDARD

Not held in stock. Available to order; minimum order quantity applies.

d Diameter - mm	d1 (min) Pipe OD - mm	d1 (max) Pipe OD - mm	d2 Rod Diameter - mm	d3 Thread Size	e Inside Width - mm	h1 Overall Height - mm	d Diameter - mm	d1 (min) Pipe OD - mm	d1 (max) Pipe OD - mm	d2 Rod Diameter - mm	d3 Thread Size	e Inside Width - mm	h1 Overall Height - mm
148	133	139.7	16	M16	164	191	332	318	323.9	20	M20	352	385
176	159	168.3	16	M16	192	217	378	355.6	368	24	M24	402	435
202	191	193.7	16	M16	218	249	428	406.4	419	24	M24	452	487
228	216	219.1	20	M20	248	283	530	508	521	24	M24	554	589
282	267	273	20	M20	302	334							

MARKING

Carbon steel / Alloy steel Head marking to ISO 898-1:2013

Stainless steel Head marking to ISO 3506-1:2020

Marking requirements are set by the material standard named above, not by the product standard. Confirm the ordered property class before production.

INSPECTION DOCUMENTS WE CAN ISSUE

EN 10204 3.1 material certificate	Can be included when agreed in the order.
Dimensional inspection report	Can be provided for the agreed inspection scope.
Certificate of conformity	Can be issued against the confirmed order requirements.
Mechanical test report	Available when the required tests are agreed before production.
Chemical analysis report	Available when the material verification scope is agreed.
Coating inspection report	Can record the coating checks agreed for the order.

REFERENCES & NOTES

Note: Dimensional values follow the selected execution standard. Material properties and batch test results are included only when declared or supported by the applicable certificate or test report.