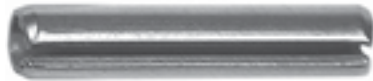


Spring Pins

Goupilles à ressort



Inch
Pouce



Corrosion Resistant

Slotted Spring Tension Pins

Stainless Steel AISI 420 pins are excellent for applications up to **370°C** (700°F), but should not be subjected to higher temperatures. They can be used in temperatures down to **-45°C** (-50°F).

Reusable - Shock resistant - Vibration-proof Pins are **oversize**; will contract to "nominal diameter" upon insertion.

To ASME B18.8.2 Specs.

(Rolled Spring Pins)

Nominal Diameter	1/16"	5/64"	3/32"	1/8"	5/32"	3/16"	7/32"	1/4"	5/16"	3/8"	1/2"
Wall Thickness	.012	.018	.022	.028	.032	.040	.048	.048	.062	.077	.094
Outside dia. before insertion	.066-.069	.083-.086	.099-.103	.131-.135	.162-.167	.194-.199	.226-.232	.258-.264	.321-.330	.385-.395	.513-.524
Recommended Hole Size	.062-.065	.078-.081	.094-.097	.125-.129	.156-.160	.187-.192	.219-.224	.250-.256	.312-.318	.375-.382	.500-.510
Min. Double Shear Strength in lbs.	430	800	1,150	1,875	2,750	4,150	5,850	7,050	10,800	16,300	27,100

LENGTHS

ORDER BY SPAENAUR NUMBERS LISTED BELOW

1/4"	240-071										
5/16"	240-102		240-115								
3/8"	240-067		240-055	240-023							
7/16"					240-006						
1/2"	TP-2000	240-019	240-K03-1W	240-024	240-028	240-029					
9/16"			240-073								
11/16"				240-070							
5/8"	240-018	240-020	240-075	240-008		240-030	240-061	240-035			
3/4"	TP-2003	TP-2005	240-057	240-025	TP-2004	240-009	240-062	240-036	240-044		
7/8"				240-007		240-031	240-063	240-037			
1"	240-114	240-021	240-058	TP-2002	240-K02-1K	TP-2001	240-064	240-012	240-045	240-038	
1-3/16"			240-074								
1-1/4"			240-059	240-026	240-101	240-032	240-065	240-039	240-046	TP-2006	
1-3/8"								240-072			
1-1/2"		240-022	240-060	240-027		240-033	240-066	240-040	240-047	240-011	240-052
1-5/8"				240-103							
2"				240-013	240-014	240-034					
2-1/4"								240-K01-1T	240-048	240-050	240-053
								240-042			
2-1/2"								240-043	240-049	240-051	
3"								240-015	240-016	240-017	240-054
3-1/2"								240-010			
4-1/2"								240-113			

Contact Sales Desk For Package Quantities

302 STAINLESS STEEL — Slotted Spring Tension Pins, May be slightly Magnetic

Nominal Diameter	3/32"	1/8"	3/16"	1/4"
Wall Thickness	.022	.028	.040	.048
Outside dia. before insertion	.099-.103	.131-.135	.194-.199	.258-.264
Recommended Hole Size	.094-.097	.125-.129	.187-.192	.250-.256
Min. Double Shear Strength in lbs.	670	1,090	2,425	4,100
LENGTHS	ORDER BY SPAENAUR NUMBERS LISTED BELOW			
5/16"		240-104		
1/2"			240-110	240-108
5/8"		240-100		
3/4"	240-002	240-003		240-106
1-1/8"		240-107		
1-1/4"			240-K04-1M	
1-5/8"				240-111
1-3/4"				240-112
2"				240-105

PKG QTY. 100

E

Inch
Pouce

SPIROL

Spring Pins
Goupilles à ressort



High Carbon Spring Steel (Plain Finish) Slotted Spring Tension Pins

These pins replace more expensive fasteners such as dowel, straight solid, taper, and groove pins.

Re-usable - Shock resistant - Vibration-proof

Pins are oversize. Will contract to "nominal diameter" upon insertion.

Tension pins are used throughout the appliance, railroad, automotive, construction, farm, electronic, and general equipment industries to simplify design and reduce assembly costs.

To ASME/ANSI B18.8.2 Specs.

Nominal Diameter	1/16"	5/64"	3/32"	1/8"	5/32"	3/16"	7/32"	1/4"	5/16"	3/8"	7/16"	1/2"
Outside Diameter Before Insertion	.066-.069	.083-.086	.099-.103	.131-.135	.162-.167	.194-.199	.226-.232	.258-.264	.321-.330	.385-.395	.448-.459	.513-.524
Wall Thickness	.012	.018	.022	.028	.032	.040	.048	.048	.062	.077	.077	.094
Recommended Hole Size	.062-.065	.078-.081	.094-.097	.125-.129	.156-.160	.187-.192	.219-.224	.250-.256	.312-.318	.375-.382	.437-.445	.500-.510
Min. Double Shear Strength in lbs.	430	800	1,150	1,875	2,750	4,150	5,850	7,050	10,800	16,300	19,800	27,100
ORDER BY SPAENAUR NUMBERS LISTED BELOW												
LENGTH												
3/16"	TP-45											
1/4"	TP-46	TP-55	TP-84	239-008								
5/16"	239-D03-1W	TP-56	TP-85	239-011								
3/8"	TP-48	239-D02-1X	TP-81	TP-73	239-D18-1A							
7/16"	TP-49	239-D22-1Y	TP-86	TP-93								
1/2"	TP-50	TP-59	TP-1	TP-8	TP-77	TP-113						
9/16"	TP-51	TP-60	TP-87	TP-94	239-D23-1C	TP-114						
5/8"	TP-52	TP-61	TP-2	TP-9	TP-105	TP-72		TP-82		239-009		
11/16"	TP-53	TP-62	TP-88	TP-95	TP-106	TP-115						
3/4"	239-D08-1Y	TP-63	TP-3	TP-10	TP-15	TP-20	TP-121	TP-134	TP-83	TP-150		
13/16"		TP-64	TP-89	TP-96	TP-107	TP-116						
7/8"		TP-65	TP-4	TP-11	TP-16	TP-21	TP-122	TP-135				
15/16"	239-173	TP-66	TP-90	TP-97	TP-108	TP-117						
1"		TP-67	TP-5	TP-12	TP-17	TP-22	TP-123	TP-27	TP-32	TP-151		
1-1/8"			TP-91	TP-98	TP-109	TP-118	TP-124	239-D01-1T				
1-1/4"		TP-69	TP-6	TP-13	TP-18	TP-23	TP-125	TP-28	TP-33	TP-152		TP-158
1-3/8"		TP-70	TP-92	TP-99	TP-110	TP-75	TP-126	TP-74				
1-1/2"			TP-7	TP-14	TP-19	TP-24	TP-127	TP-29	TP-34	TP-39	239-001	TP-159
1-5/8"				TP-100	TP-111	TP-119	TP-128	TP-137		239-005		
1-3/4"				TP-101	TP-112	TP-25	TP-129	TP-30	TP-35	TP-40		
1-7/8"				TP-102		TP-120	TP-130	TP-138				
2"				TP-103	239-004	TP-26	TP-131	TP-31	TP-36	TP-41		TP-160
2-1/4"					239-002	TP-76	TP-132	TP-139	TP-37	TP-42		TP-161
2-1/2"					239-010	TP-167	TP-133	TP-79	TP-38	TP-43		TP-78
2-3/4"								TP-140	TP-144	TP-153		TP-162
3"						239-007	239-003	239-D07-1P	TP-145	TP-80		TP-163
3-1/4"								TP-142	TP-146	TP-154		TP-164
3-1/2"								TP-143	TP-147	TP-155		TP-165
3-3/4"									TP-148	TP-156		TP-166
4"									TP-149	TP-157		*TP-44
4-1/2"												*TP-170
5"												*239-D16-1M

Double up for...HEAVY DUTY applications.

Use one Spring Tension Pin inside another for additional strength. Install the smaller pin inside the larger pin, then insert into the application.

PIN	DIAMETERS						
INSIDE	3/32	1/8	5/32	3/16	7/32	5/16	
OUTSIDE	5/32	7/32	1/4	5/16	3/8	1/2	

* PKG QTY. 10

TENSION PINS (Slotted Spring Pins)



Page
A93

ASSORTMENT A-211

**STEEL Plain Finish
24 SIZES - 335 PIECES**

PLASTIKIT A-61

**STEEL Plain Finish
24 SIZES - 123 PIECES**

CATALOG 14
SPAENAUR

Spring Pins

Goupilles à ressort



Inch

Pouce



High Carbon Spring Steel
(Zinc Plated)

Slotted Spring Tension Pins

These pins replace more expensive fasteners such as dowel, straight solid, taper, and groove pins.

Re-usable - Shock resistant - Vibration-proof

Pins are oversize. Will contract to "nominal diameter" upon insertion. Tension pins are used throughout the appliance, railroad, automotive, construction, farm, electronic, and general equipment industries to simplify design and reduce assembly costs.

To ASME/ANSI B18.8.2 Specs.

E

Nominal Diameter	1/16"	5/64"	3/32"	1/8"	5/32"	3/16"	7/32"	1/4"	5/16"	3/8"	7/16"	1/2"																					
Outside Diameter Before Insertion	.066-.069	.083-.086	.099-.103	.131-.135	.162-.167	.194-.199	.226-.232	.258-.264	.321-.330	.385-.395	.448-.459	.513-.524																					
Wall Thickness	.012	.018	.022	.028	.032	.040	.048	.048	.062	.077	.077	.094																					
Recommended Hole Size	.062-.065	.078-.081	.094-.097	.125-.129	.156-.160	.187-.192	.219-.224	.250-.256	.312-.318	.375-.382	.437-.445	.500-.510																					
Min. Double Shear Strength in lbs.	430	800	1,150	1,875	2,750	4,150	5,850	7,050	10,800	16,300	19,800	27,100																					
LENGTH	ORDER BY SPAENAUR NUMBERS LISTED BELOW																																
3/16"	TP-45ZP																																
1/4"	239-D05-1X	TP-55ZP	239-D21-1P	239-008ZP																													
5/16"	TP-47ZP		TP-85ZP																														
3/8"	TP-48ZP	TP-57ZP	TP-81ZP	TP-73ZP																													
7/16"	TP-49ZP		TP-86ZP	TP-93ZP																													
1/2"	TP-50ZP	TP-59ZP	TP-1ZP	TP-8ZP	TP-77ZP	TP-113ZP																											
9/16"	TP-51ZP	TP-60ZP	TP-87ZP	TP-94ZP	TP-104ZP																												
5/8"	TP-52ZP	TP-61ZP	TP-2ZP	TP-9ZP	TP-105ZP	TP-72ZP		TP-82ZP																									
11/16"	TP-53ZP		TP-88ZP	TP-95ZP		TP-115ZP																											
3/4"	TP-54ZP	TP-63ZP	TP-3ZP	TP-10ZP	239-D06-1A	TP-20ZP	TP-121ZP	TP-134ZP	TP-83ZP																								
13/16"				TP-96ZP		TP-116ZP																											
7/8"			TP-4ZP	TP-11ZP	TP-16ZP	TP-21ZP	TP-122ZP	TP-135ZP																									
15/16"		TP-66ZP		TP-97ZP	TP-108ZP																												
1"		TP-67ZP	TP-5ZP	TP-12ZP	TP-17ZP	TP-22ZP	TP-123ZP	TP-27ZP	TP-32ZP	TP-151ZP																							
1-1/8"				TP-98ZP	TP-109ZP	TP-118ZP	TP-124ZP	TP-136ZP																									
1-1/4"		TP-69ZP	TP-6ZP	TP-13ZP	TP-18ZP	TP-23ZP	TP-125ZP	TP-28ZP	TP-33ZP	TP-152ZP		TP-158ZP																					
1-3/8"			TP-92ZP	TP-99ZP	TP-110ZP	TP-75ZP	TP-126ZP	TP-74ZP																									
1-1/2"		TP-71ZP	TP-7ZP	TP-14ZP	TP-19ZP	TP-24ZP	TP-127ZP	TP-29ZP	TP-34ZP	TP-39ZP	239-001ZP	TP-159ZP																					
1-5/8"				TP-100ZP	TP-111ZP	TP-119ZP	TP-128ZP	TP-137ZP																									
1-3/4"				TP-101ZP	TP-112ZP	TP-25ZP	TP-129ZP	TP-30ZP	TP-35ZP	TP-40ZP																							
1-7/8"				TP-102ZP		TP-120ZP	TP-130ZP	TP-138ZP																									
2"				TP-103ZP	239-004ZP	TP-26ZP	TP-131ZP	TP-31ZP	TP-36ZP	TP-41ZP		TP-160ZP																					
2-1/4"					239-002ZP	TP-76ZP	TP-132ZP	TP-139ZP	TP-37ZP	TP-42ZP		TP-161ZP																					
2-1/2"						TP-167ZP	TP-133ZP	TP-79ZP	TP-38ZP	TP-43ZP		TP-78ZP																					
2-3/4"								TP-140ZP	TP-144ZP			TP-162ZP																					
3"								TP-141ZP	TP-145ZP	TP-80ZP		TP-163ZP																					
3-1/4"									TP-146ZP	TP-154ZP		TP-164ZP																					
3-1/2"									TP-147ZP			TP-165ZP																					
3-3/4"									TP-148ZP																								
4"									TP-149ZP																								
<p>Double up for...HEAVY DUTY applications.</p> <p>Use one Spring Tension Pin inside another for additional strength. Install the smaller pin inside the larger pin, then insert into the application.</p> <table border="1"> <thead> <tr> <th>PIN</th> <th colspan="6">DIAMETERS</th> </tr> </thead> <tbody> <tr> <td>INSIDE</td> <td>3/32</td> <td>1/8</td> <td>5/32</td> <td>3/16</td> <td>7/32</td> <td>5/16</td> </tr> <tr> <td>OUTSIDE</td> <td>5/32</td> <td>7/32</td> <td>1/4</td> <td>5/16</td> <td>3/8</td> <td>1/2</td> </tr> </tbody> </table>													PIN	DIAMETERS						INSIDE	3/32	1/8	5/32	3/16	7/32	5/16	OUTSIDE	5/32	7/32	1/4	5/16	3/8	1/2
PIN	DIAMETERS																																
INSIDE	3/32	1/8	5/32	3/16	7/32	5/16																											
OUTSIDE	5/32	7/32	1/4	5/16	3/8	1/2																											

CATALOG 14

SPAENAUR