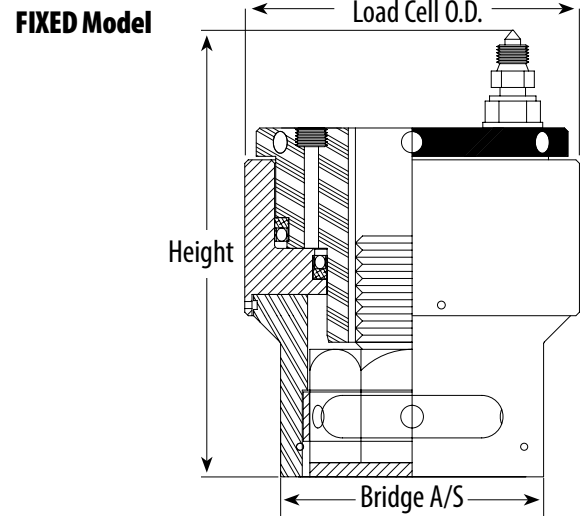


# Stud Tensioner Fixed Model Dimensions

## Features:

- Self-lubricating seals provide unlimited shelf life
- Seals are high-performance polymers, FDA approved for food industry specifications
- Operating pressure up to 22,000 psi and temperatures from -400°F to +500°F
- Low coefficient of friction - 0.04
- Longer life seals provide better performance, fewer replacements
- Spring-energized seals provide permanent elasticity
- Variable models feature interchangeable components, affording greater coverage at lower cost
- Metric Sizes available



FIXED MODELS						
Part Number	Stud Diameter (Inches)	Maximum Initial Load <sup>1</sup> *(Lbs.)	Hydraulic Area (Inches <sup>2</sup> )	Height (Inches)	Bridge A/S (Inches)	Load Cell OD (Inches)
F012	3/4	43,472	1.976	6.125	2.600	2.198
F014	7/8	54,714	2.488	6.250	2.600	2.474
F100	1	63,360	2.880	6.375	2.600	2.762
F102	1-1/8	86,086	3.913	6.625	3.050	3.196
F104	1-1/4	107,008	4.864	6.750	3.150	3.481
F106	1-3/8	120,186	5.463	6.875	3.500	3.836
F108	1-1/2	139,480	6.340	7.000	3.625	4.152
F110	1-5/8	182,050	8.275	7.250	3.750	4.581
F112	1-3/4	230,230	10.465	7.375	4.375	5.045
F114	1-7/8	234,674	10.667	7.500	4.750	5.238
F200	2	286,176	13.008	7.625	4.812	5.660
F204	2-1/4	287,452	13.066	8.125	5.500	6.304
F208	2-1/2	324,632	14.756	8.500	5.625	6.805
F212	2-3/4	401,214	18.237	9.375	6.250	7.404
F300	3	507,584	23.072	9.500	6.375	8.056
F304	3-1/4	561,638	25.529	9.750	6.560	8.709
F308	3-1/2	690,976	31.408	10.375	7.250	9.431
F312	3-3/4	823,740	37.445	11.000	8.900	10.100
F400	4	922,086	41.913	11.500	9.100	10.500

<sup>1</sup> Maximum initial load is based on maximum operating pressure of 22,000 psi. Specifications may change without notice.



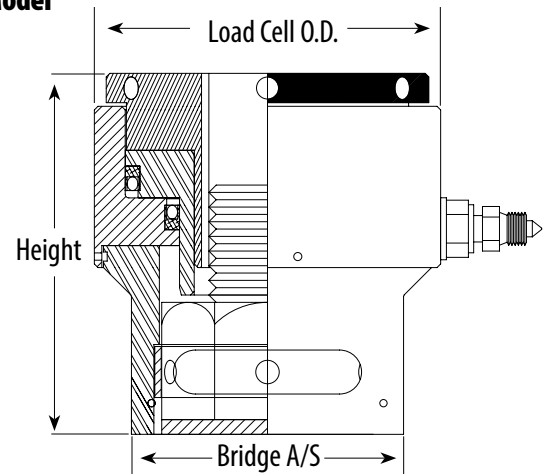
# Stud Tensioner

## Variable Model Dimensions

### Features:

- Self-lubricating seals provide unlimited shelf life
- Seals are high-performance polymers, FDA approved for food industry specifications
- Operating pressure up to 22,000 psi and temperatures from -400°F to +500°F
- Low coefficient of friction - 0.04
- Longer life seals provide better performance, fewer replacements
- Spring-energized seals provide permanent elasticity
- Variable models feature interchangeable components, affording greater coverage at lower cost
- Metric Sizes available

VARIABLE Model

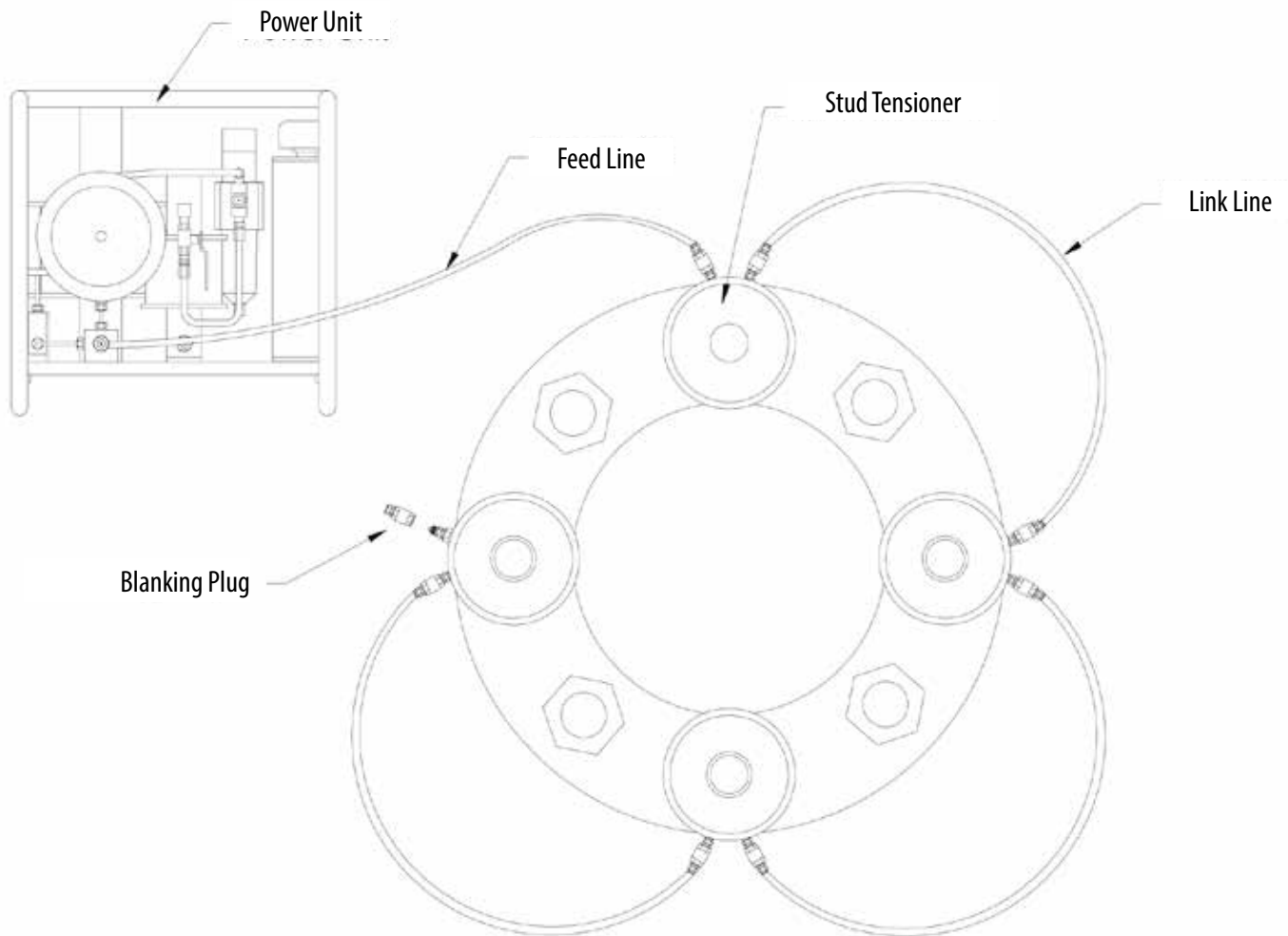


VARIABLE MODELS						
Part Number	Stud Diameter (Inches)	Maximum Initial Load <sup>1</sup> *(Lbs.)	Hydraulic Area (Inches <sup>2</sup> )	Height (Inches)	Bridge A/S (Inches)	Load Cell OD (Inches)
V012	3/4	42,240	1.920	4.500	2.600	3.700
V014	7/8	42,240	1.920	4.625	2.600	3.700
V100	1	42,240	1.920	4.750	2.600	3.700
V102	1-1/8	77,330	3.515	4.875	3.050	4.300
V104	1-1/4	77,330	3.515	5.032	3.150	4.300
V106	1-3/8	145,244	6.602	5.312	3.500	4.705
V108	1-1/2	145,244	6.602	5.437	3.625	4.705
V110	1-5/8	145,244	6.602	5.562	3.750	4.705
V112	1-3/4	250,338	11.379	5.687	4.375	5.905
V114	1-7/8	250,338	11.379	5.813	4.756	5.905
V200	2	250,338	11.379	5.938	4.812	5.905
V204	2-1/4	259,072	11.776	6.844	5.500	6.937
V208	2-1/2	259,072	11.776	6.969	5.625	6.937
V212	2-3/4	475,640	21.620	7.347	6.250	8.250
V300	3	475,640	21.620	8.032	6.375	8.250
V304	3-1/4	603,922	27.451	8.187	6.560	9.400
V308	3-1/2	603,922	27.451	8.312	7.250	9.400
V312	3-3/4	772,200	35.100	8.500	8.900	10.950
V400	4	772,200	35.100	8.687	9.100	10.950

<sup>1</sup> Maximum initial load is based on maximum operating pressure of 22,000 psi. Specifications may change without notice.



# Stud Tensioner Typical Application



## When ordering a stud tensioner system, the following accessories are required:

- One 20,000 psi hydraulic power unit
- One feed line to run from the power unit to the first tensioner
- As many link lines as required to connect all of the tensioners together LESS ONE. For example, if you order 10 tensioners, you will require 9 link lines.

