## Tensioner PSD, two-stage


| EN | Technical Data, metric

## Tensioner PSD, two-stage

1,500 bar maximum operating pressure


The two-stage hydraulic tensioner allows seamless installation and disassembly from bolts/studs without exerting any torsional load on the bolt/stud. The pre-tensioning force can be set perfectly and with precision.

Plarad tensioners are available in a variety of common manufactured sizes which are listed below. These common sizes and other bespoke tensioners can be easily adapted to perfectly fit your specific joint/flange. Plarad tensioners are available in both single-stage and multi-stage configurations.

| Type | D1 <br> (mm) | D2 <br> $(\mathrm{mm})$ | Max. <br> Load <br> $(\mathrm{kN})$ | H 1 <br> $(\mathrm{~mm})$ | Stroke <br> $(\mathrm{mm})$ | H 2 <br> $(\mathrm{~mm})$ | SW <br> $(\mathrm{mm})$ | dmin <br> $(\mathrm{mm})$ | D3 <br> $(\mathrm{mm})$ | H 3 <br> $(\mathrm{~mm})$ | H 4 <br> $(\mathrm{~mm})$ | Wight <br> $(\mathrm{kg})$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PSD 30-471 | 71 | M30 | 471 | 196 | 8 | 70 | 46 | 66 | 62 | 31 | 8 | 5,8 |
| PSD 33-581 | 79 | M33 | 581 | 215 | 10 | 84 | 50 | 71 | 65 | 34 | 16 | 6,6 |
| PSD 36-678 | 83 | M36 | 678 | 228 | 10 | 90 | 55 | 77 | 71 | 38 | 21 | 8,2 |
| PSD 39-808 | 92 | M39 | 808 | 250 | 10 | 96 | 60 | 86 | 80 | 40 | 15 | 10,5 |
| PSD 42-937 | 98 | M42 | 937 | 263 | 10 | 100 | 65 | 90 | 82 | 43 | 15 | 14,1 |
| PSD 45-1089 | 106 | M45 | 1089 | 256 | 10 | 103 | 70 | 98 | 91 | 46 | 18 | 16,3 |
| PSD 48-1278 | 112 | M48 | 1278 | 269 | 10 | 108 | 75 | 104 | 96 | 48 | 20 | 19,8 |
| PSD 56-1695 | 130 | M56 | 1695 | 300 | 10 | 126 | 85 | 119 | 108 | 56 | 25 | 23,6 |
| PSD 64-2233 | 146 | M64 | 2233 | 350 | 10 | 157 | 95 | 131 | 125 | 63 | 32 | 32,7 |

Other sizes and dimensions available on request.

## Advantages and benefits of the Plarad tensioner

 Straightforward alignment, independent of the bolt configuration.

## Supporting surface - optimized

Outstanding versatility in any environment: The tensioner is especially well suited for use in tight spaces thanks to its optimal shape.

Rotating socket -
spring-loaded
Prevention of installation damage during the positioning of the tensioner: The spring affords the rotating socket axial flexibility.


## Gearbox

Unique ease of use: The nut can be turned swiftly and with perfect ease using a ratchetor a torque wrench that is driven by a gear drive (maximum input torque: $<\mathrm{M} 36=40 \mathrm{Nm}, \geq \mathrm{M} 36=80 \mathrm{Nm})$.

## Optional accessories



Bolt/stud engagement indicator
$\rightarrow$ Visible safety


Spacer rings and spacer washers
$\rightarrow$ Providing greater flexibility for different bolt/stud protrusions


Rotatable hose coupling
$\rightarrow$ Simplified handling

We also offer electric and pneumatic power packs (fully automatic with and without documentation) and manual hydraulic pumps that are designed to perfectly match each specific tensioner. Available for all tensioner models.

... a successful connection!

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