

Made in
Germany

Tensioner PSD, two-stage



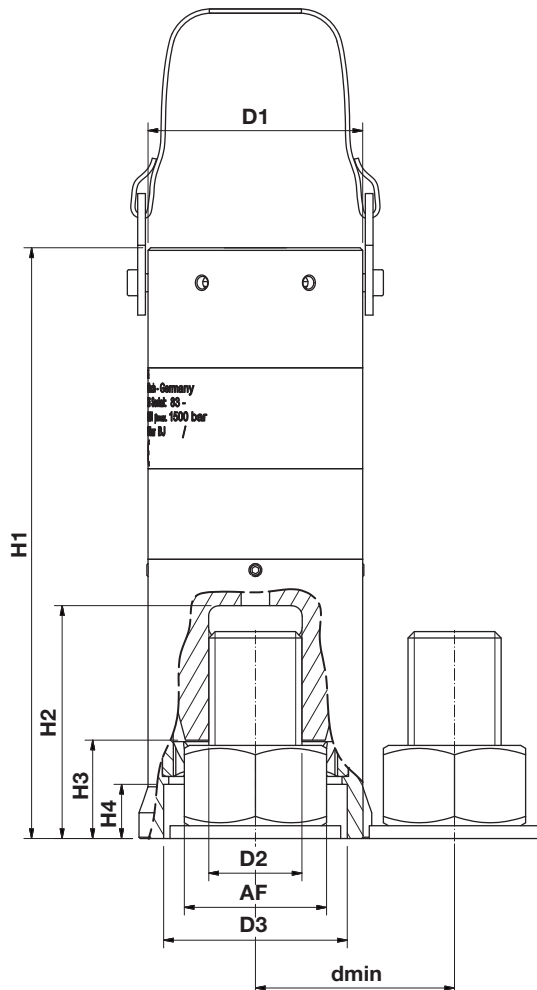
Technical data,
metric

PLARAD[®]
Torque & Tension Systems



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	Code no.	D1 Ø (mm)	D2 Ø (mm)	Max. Load (kN)	H1 (mm)	Stroke (mm)	H2 (mm)	AF (mm)	dmin (mm)	D3 (mm)	H3 (mm)	H4 (mm)
PSD 30-471	G45-030-0-30101	71	M30	471	196	8	70	46	66	62	31	8
PSD 33-581	G45-033-0-30101	79	M33	581	215	10	84	50	71	65	34	16
PSD 36-678	G45-036-0-30101	83	M36	678	228	10	90	55	77	71	38	21
PSD 39-808	G45-039-0-30101	92	M39	808	250	10	96	60	86	80	40	15
PSD 42-937	G45-042-0-30101	98	M42	937	263	10	100	65	90	82	43	15
PSD 45-1089	G45-045-0-30101	106	M45	1089	256	10	103	70	98	91	46	18
PSD 48-1278	G45-048-0-30101	112	M48	1278	269	10	108	75	104	96	48	20
PSD 56-1695	G45-056-0-30101	130	M56	1695	300	10	126	85	119	108	56	25
PSD 64-2233	G45-064-0-30101	146	M64	2233	350	10	157	95	131	125	63	32

Other sizes and dimensions available on request.

Advantages and benefits of the Plarad tensioner

Safety indicator – green (optional)

Safe controlled operation: Verification of sufficient engagement of the bolt/stud.

Automatic piston return

Swift operation: The puller is automatically returned to its original position once the pressure has been released.

Stroke limiter – mechanical

Ultimate safety: The mechanical end stop prevents the over extension of the piston (even under maximum load).

Rotating socket – spring-loaded

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

Supporting surface – optimized

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

Maximum stroke indicator

Optical safety: Visual indication of maximum stroke (max distance piston can move out of the tensioner body).

Cycle counter

The cycle counter indicates number of cycles performed and will consequently indicate the maximum cycle service point, thus avoiding damage and failures via preventive maintenance.

Stainless steel handle

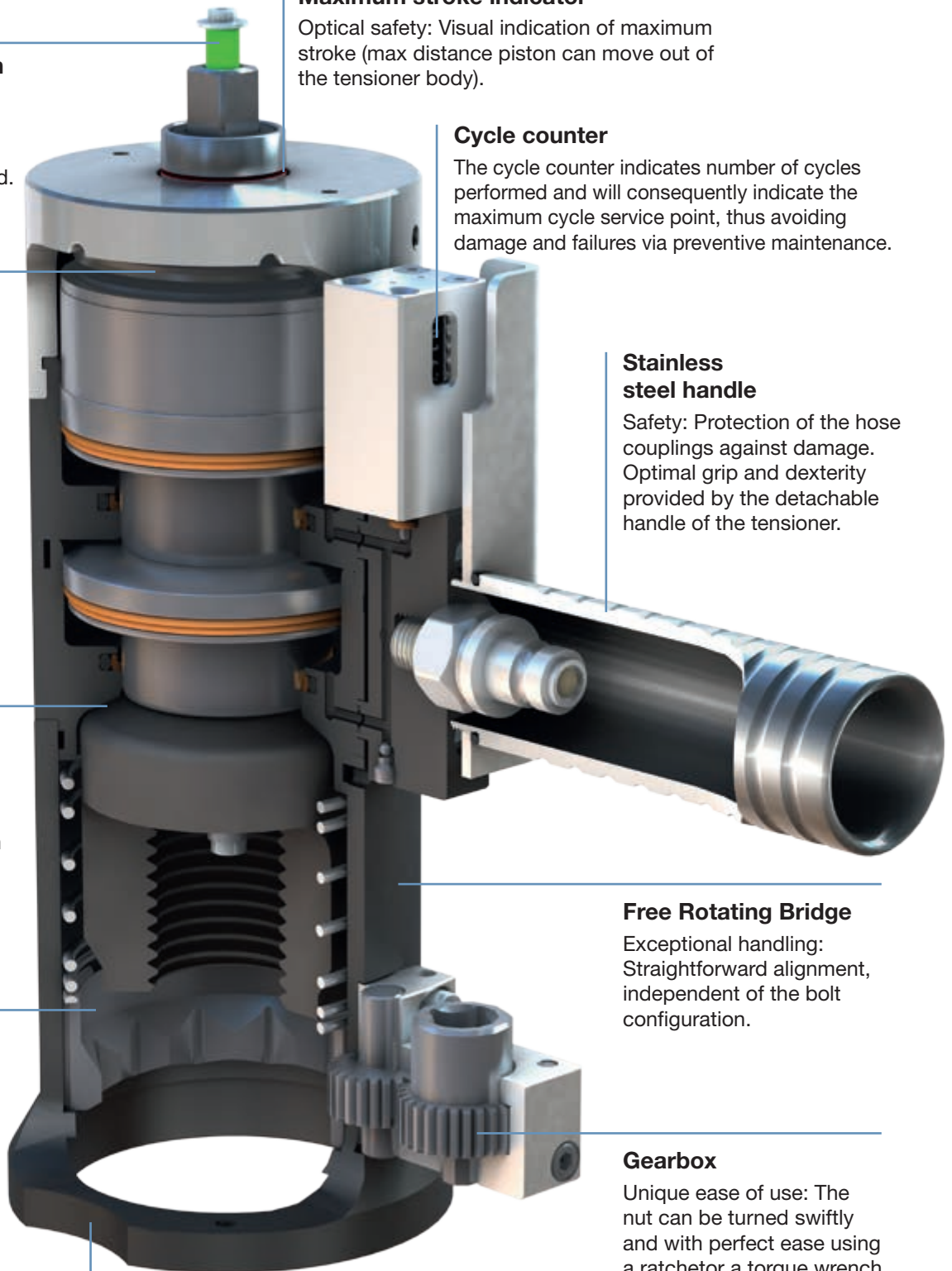
Safety: Protection of the hose couplings against damage. Optimal grip and dexterity provided by the detachable handle of the tensioner.

Free Rotating Bridge

Exceptional handling: Straightforward alignment, independent of the bolt configuration.

Gearbox

Unique ease of use: The nut can be turned swiftly and with perfect ease using a ratchet or a torque wrench that is driven by a gear drive (maximum input torque: < M36 = 40 Nm, ≥ M36 = 80 Nm).



Optional accessories



Bolt/stud engagement indicator

→ Visible safety



Spacer rings and spacer washers

→ Providing greater flexibility for different bolt/stud protrusions



Rotatable hose coupling

→ 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!

Maschinenfabrik Wagner GmbH & Co. KG
Birrenbachshöhe · 53804 Much · Germany

Phone national: (02245) 62-0
Fax national: (02245) 62-66
Phone international: +49 (0)2245 62-10
Fax international: +49 (0)2245 62-22

info@plarad.com · www.plarad.com

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