

Quick Release Pressure Vessel Clamps

For the safe closure of pressure vessels, reactors, man-lids and pipelines, widely used on glass lined vessels, filter dryers, and other pressure vessels.

A wide range of sizes are available from M10 to M56 with openings from 13mm to 570mm.

High quality clamps, mechanically tested for tensile strength, impact tested and TÜV approved.

All parts are heat coded and provided with material test certificates to EN10204 - 3.1 for full traceability.

We can offer a costed calculation service based on your vessel design and operating condition.

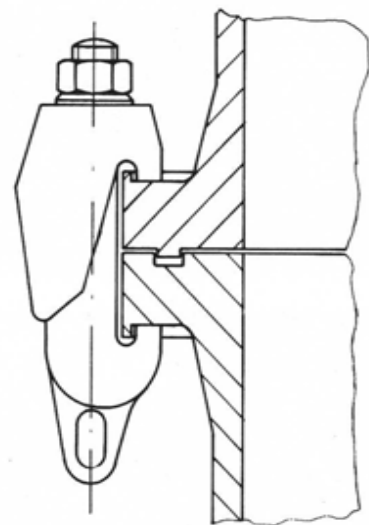
Significant cost saving - Reduce dimensions of main flange sections.

Reduce production costs and time:
 No drilling of the flange sections required.
 Prevents loss of nuts and bolts:
 Clamps remain captive after opening.

Surface treatments available:

- *Grinding
- *Electropolishing
- *Nickel Plating
- *Hard-Chrome Plating
- *Blasting
- *Bare Pickling
- *Veralit Plating
- *Galvanizing [Blue]

Other treatments on request. **Please note that A4 Clamps are supplied with A2 nuts**



Material	Minimum Size	Additional
1.4571/A4	from M10	with plain washer
ASME SA193 Gr. B8M, class 1	from M10	with plain washer
ASME SA193 Gr. B7	from M12	spherical* or plain washer
*Spherical washers start from M16		

Execution:
drop forged, without cracks and wrinkles, acc. DIN EN 10243-1, ready processed

Thread:
according to DIN ISO 13-1, tolerance 6g, also possible in UN or UNC

Allowable stresses:
see page 119 and 120

Certification:
according AD 2000-Merkblatt A5, Anl. 2, W 7/1, W 7/2, W 10

Certificate:
according to DIN EN 10204-3.1, DIN EN 10204-3.2 and ASME-Code possible

Material*	Equipment
1.4571 (≤ M30)	with plain washer
1.7225 (M12 - M33)	spherical-** or plain washer
1.7033 (M56)	with spherical washer
Gr. B8M, class 1 (≤ M30)	with plain washer
Gr. B7 (≤ M33)	spherical-** or plain washer

Type	Clamping length	Length	Width	Dimensions											Weight
D	M	L	B	a	b	c	d	e	f	g	h	i	k	n	kg/St.
M10-K	13 - 24	83	25	4	4	4	6	13	12	15	27	5	6	20	0,2
M10-L	22 - 33	92													0,2
M12-L	28 - 56	133	34	4	5	4	8	18	20	16	38	6	8	30	0,5
M12-L2	55 - 83	160													0,6
M16-K	40 - 60	165	40	6	7	5	12	25	25	25	58	8	8	32	1,1
M16-L	55 - 85	190													1,2
M16-L2	80 - 110	215													1,3
M16-LS	100 - 130	235													1,4
M20-K	50 - 75	195	48	10	9	8	14	30	30	30	73	8	8	42	2,0
M20-L	65 - 90	210													2,0
M20-L2	90 - 130	250													2,2
M24-K	65 - 95	230	52	10	11	8	14	34	34	30	78	9	10	46	2,7
M24-L	90 - 130	265													3,0
M24-L2	120 - 160	295													3,2
M24-LS	160 - 200	335													3,4
M24-LT***	200 - 240	375													3,7
M24-LU***	245 - 285	420													4,3
M24-LX	295 - 335	470													4,8
M27-K	85 - 110	291	63	10	16	8	14	52	45	40	85	9	10	55	4,8
M27-L	115 - 145	327													5,0
M27-L2	150 - 195	375													5,5
M27-L3	205 - 255	435													6,2
M27-L4***	260 - 300	480													6,7
M27-L5***	315 - 355	535													7,4
M27-LS	340 - 385	566													7,7
M27-LT***	390 - 430	610													8,6
M27-LX	440 - 480	660													9,5
M30 on demand															
M33-K	100 - 150	380	75	14	20	10	24	65	60	48	112	10	12	60	9,2
M33-L	150 - 200	430													10,2
M33-L2	200 - 250	480													10,9
M33-L3	250 - 300	530													11,4
M33-L4	300 - 360	590													12,5
M33-L5***	355 - 405	635													13,2
M33-LX	380 - 430	660													13,5
M33-LX2***	440 - 490	720													15,2
M33-LY	520 - 570	800													16,5
M56-L	200 - 245	523	115	14	26	10	22	84	65	40	160	17	12	100	30,2
M56-L2	260 - 350	640													34,0

*other materials available on request | **Spherical washer starting at M16 | *** special production