Lifting Solutions Group
Axel Johnson International

Bow Shackle Powertex PBSB

Product information



POWERTEX

The POWERTEX Bow Shackle PBSB is a high-strength lifting shackle designed for demanding industrial environments. Equipped with a hexagon-head safety bolt, nut, and stainless-steel cotter pin, it provides a secure connection for overhead lifting and rigging.

The bow shape allows for multi-directional loading, making it suitable for use with slings, chains, and wire rope assemblies. Manufactured from quenched and tempered alloy steel and hot-dip galvanized, it is built for reliable daily use in construction, manufacturing, offshore, and heavy maintenance operations.

It complies with EN 13889, AS 2741 (generally), ASME B30.26, and meets the performance requirements of the US Fed. Spec. RR-C-271.

Best used for

- When the shackle will remain in place for longer periods
- Vibrations or dynamic loads could cause a screw pin to rotate

Not ideal for:

- Applications requiring frequent assembly and disassembly, where a screw pin shackle may be more practical.

Product benefits

- Safety bolt with nut and stainless steel cotter pin helps prevent accidental loosening
- Bow design accommodates multi-directional loading with slings, chains, and wire rope
- Quenched and tempered Grade 6 alloy steel provides reliable strength for lifting applications
- Hot-dip galvanized finish improves corrosion resistance in outdoor and industrial environments

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Material: Forged alloy steel, supplied with safety bolt and nuts. Stainless steel retaining pins.
Marking: According to standard, CE-mark, Powertex (PX or PTEX) , WLL, size, grade and batch number.
Temperature range: -40°C up to +200°C
Finish: All parts hot dip galvanized + head-bolt and nut additional powder painted.
Standard: EN 13889, AS 2741, ASME B30.26

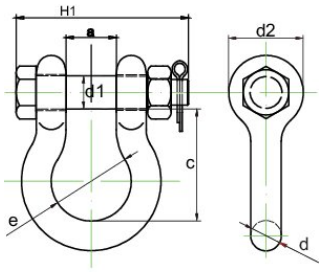
Safety factor: 6:1
Grade: 6

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Blueprint



Technical data

Part code	WLL ton	Size inch	a* mm	c* mm	d mm	d1 mm	d2 mm	e mm	H1 mm	Weight kg
420100050860	0.5	1/4	13	29	6.5	8	17.5	20	42.5	0.05
420100080860	0.75	5/16	13.5	31	8	9.5	21	21.5	47	0.1
420100100860	1	3/8	17	37	10	11.2	25	26.2	56.5	0.15
420100150860	1.5	7/16	18.5	43	11.3	12.7	27	29.5	63.5	0.22
420100200860	2	1/2	20.6	48	12.7	15.8	30.5	33.3	75.5	0.36
420100330860	3.25	5/8	27	60	16	18.8	40	43	92	0.76
420100480860	4.75	3/4	32	72	19	22	48	51	106	1.2
420100650860	6.5	7/8	37	85	22	25	54	58	120	1.8
420100850860	8.5	1	43.5	96	26.5	28	60	68.5	135	2.6
420100950860	9.5	1-1/8	48	109	29	32	68	75	143	3.8
420101200860	12	1-1/4	53	121	32	35	76	84	164	5.3
420101350860	13.5	1-3/8	59	134	35	38	84	94	182	7.2
420101700860	17	1-1/2	62	149	38	42	92	99	195	9.4
420102500860	25	1-3/4	75	178	45	50	106	128	224	15
420103500860	35	2	84	197	52	56	122	148	248	24
420105500860	55	2-1/2	107	270	66	70	145	186	302	45
420108500860	85	3	130	325	76	80	165	205	395	70

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