

FASTEKS® Compression limiters for press-in and mould-in

The Compression limiters strengthen and protect the plastic component by absorbing compressive forces which are generated when a bolt is tightened during the assembly process.



FASTEKS® Compression limiters by Bossard ensure that the integrity of the plastic component is not compromised by these additional loads and forces.

Bossard is offering a standard range of FASTEKS® Compression limiters for press-in and mould-in suitable for screw diameters of M4 - M10.

Installation

The central external knurling allows the plastic to flow progressively around and in the knurling during the moulding process. For a press-in installation the non-knurled area ensures that the Compression limiter is located squarely in the drilled or moulded hole prior the assembly.

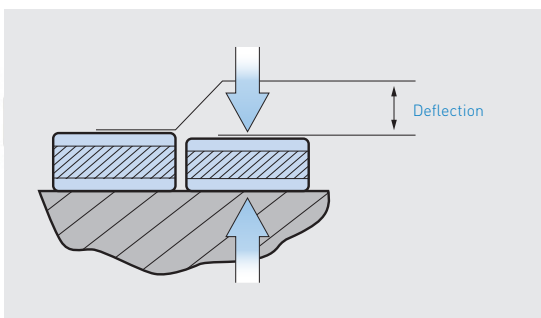
FASTEKS® Compression limiters provide sufficient mechanical strength to withstand clamp forces created by a tightened ISO Class 10.9 screw.



Press-in installation



Mould-in installation



The special design and geometry of the parts ensure a compression of less than 1% of the overall length of the Compression limiter under such conditions.

The standard range includes two round and two oval body versions made of steel zinc nickel passivated: unheaded and headed.

BN 2083 – FASTEKS® Compression limiters for press-in and mould-in, round unheaded

The symmetrical design of the unheaded version allows a bidirectional installation without the need to orientate the part. More information and all dimensions you find in our e-shop.



BN 2084 – FASTEKS® Compression limiters for press-in and mould-in, round headed

The headed version provides an increased contact area which implies a higher resistance to axial loads. More information and all dimensions you find in our e-shop.



Technical Data

The table below shows some indicative values for FASTEKS® Compression limiters pressed-in common plastic material classes.

BN 2083 = FCL-1-Code

BN 2084 = FCL-2-Code

Code	PEHD		PP		PA66		PA66 30%GF		PA6		POM	
	Install. Force (N)	Pull-out Force (N)	Install. Force (N)	Pull-out Force (N)	Install. Force (N)	Pull-out Force (N)	Install. Force (N)	Pull-out Force (N)	Install. Force (N)	Pull-out Force (N)	Install. Force (N)	Pull-out Force (N)
040x3ST												
040x4ST												
040x5ST	170	100	300	240	520	380	550	370	550	360	480	310
040x6ST												
040x8ST												
050x3ST												
050x4ST												
050x5ST	180	110	320	250	550	410	580	500	550	470	560	380
050x6ST												
050x8ST												
060x3ST												
060x4ST												
060x5ST	210	120	340	260	580	500	680	570	580	520	680	580
060x6ST												
060x8ST												
080x3ST												
080x4ST												
080x5ST	400	140	770	370	970	710	1040	610	850	640	940	620
080x6ST												
080x8ST												
100x3ST												
100x4ST												
100x5ST	440	170	800	410	1020	830	1170	680	950	700	990	680
100x6ST												
100x8ST												

The information within this document is for guidance purpose only and does not constitute a guarantee or warranty of any kind. Bossard cannot accept liability for performances arising from the use of these products. Application suitability should always be determined by appropriate testing and evaluation.

BN 2088 – FASTEKS® Compression limiters for press-in and mould-in, oval unheaded

The oval versions provide additional flexibility over round Compression limiters for centerline and stack-up tolerancing. The symmetrical design of the unheaded version allows a bidirectional installation without the need to orientate the part. More information and all dimensions you find in our e-shop.



BN 2089 – FASTEKS® Compression limiters for press-in and mould-in, oval headed

The headed version provides an increased contact area which implies a higher resistance to axial loads as well as additional flexibility over round Compression limiters for centerline and stack-up tolerancing. More information and all dimensions you find in our e-shop.



Technical Data

The table below shows some indicative values for FASTEKS® Compression limiters pressed-in common plastic material classes.

BN 2088 = FCL-3-Code

BN 2089 = FCL-4-Code

Code	PEHD		PP		PA66		PA66 30%GF		PA6		POM	
	Install. Force (N)	Pull-out Force (N)	Install. Force (N)	Pull-out Force (N)	Install. Force (N)	Pull-out Force (N)	Install. Force (N)	Pull-out Force (N)	Install. Force (N)	Pull-out Force (N)	Install. Force (N)	Pull-out Force (N)
060-7x9,5x3ST												
060-7x9,5x4ST												
060-7x9,5x5ST	190	80	280	200	480	350	390	260	350	220	350	230
060-7x9,5x6ST												
060-7x9,5x8ST												
060-7x12,8x3ST												
060-7x12,8x4ST												
060-7x12,8x5ST	330	180	590	240	820	380	850	420	900	450	740	470
060-7x12,8x6ST												
060-7x12,8x8ST												
080-9x12x3ST												
080-9x12x4ST												
080-9x12x5ST	330	180	590	240	820	380	850	420	900	450	740	470
080-9x12x6ST												
080-9x12x8ST												
080-9x15,3x3ST												
080-9x15,3x4ST												
080-9x15,3x5ST	420	200	620	410	910	460	900	450	950	500	810	510
080-9x15,3x6ST												
080-9x15,3x8ST												

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