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Self-Aligning Pads • self-resetting

EH 22731.



Product Description

Self-aligning pads are used as stop, support and thrust pad and are suitable for installation in clamping elements.
By resetting to the parallel position the contact point of the self-aligning pad provides a defined initial position, thus preventing the pad clamping in an oblique position when inserting the workpiece.

Material

Spring element
- Thermoplastic PUR

Ball
- Ball-bearing steel, hardened, bright
- Stainless steel 1.3541, nickel-plated

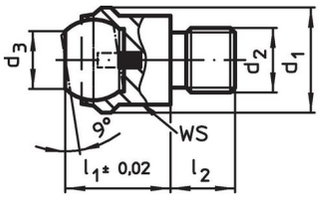
Body
- Heat-treated steel, tempered, phosphated
- Stainless steel 1.4057, heat-treated

More information

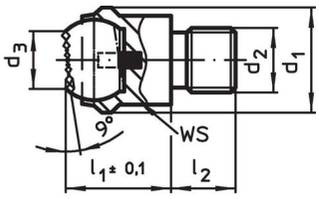
Notes

Ball protected against rotating.
Loading capacity valid for steel and stainless steel designs.

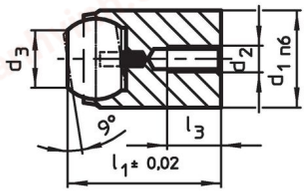
Drawing



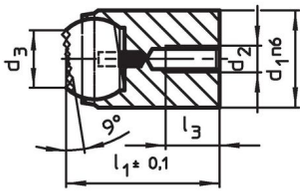
picture 1



picture 2



picture 3



picture 4

Order information

Dimensions							Location hole		WS	Load capacity for static load max.	Tightening torque max.		Art. No.
d_1	d_2	d_3	l_1	l_2 -0.5	l_3 max.	Ball diameter	Ø H7	Depth min.					
[mm]							[mm]		[mm]	[kN]	[Nm]	[g]	
with male thread, flat-faced ball, bearing surface plain – picture 1, Heat-treated steel													
13	**M 6**	7.2	13	8	–	10	–	–	11	10	10.0	12	22731.0012
13	**M 8**	7.2	13	8	–	10	–	–	11	10	25.0	13	22731.0013
20	**M 8**	10.5	18	10	–	16	–	–	17	25	25.0	39	22731.0018
20	**M10**	10.5	18	10	–	16	–	–	17	25	46.0	41	22731.0019
20	**M12**	10.5	18	12	–	16	–	–	17	25	82.0	44	22731.0020
30	**M16**	20.0	27	16	–	25	–	–	27	90	206.0	150	22731.0030
50	**M20**	34.5	35	20	–	40	–	–	41	165	407.0	485	22731.0050
50	**M24**	34.5	35	24	–	40	–	–	41	165	698.0	514	22731.0060
with male thread, flat-faced ball, bearing surface plain – picture 1, Stainless steel													
13	**M 6**	7.2	13	8	–	10	–	–	11	10	10.0	12	22731.0112
13	**M 8**	7.2	13	8	–	10	–	–	11	10	25.0	13	22731.0113
20	**M 8**	10.5	18	10	–	16	–	–	17	25	25.0	39	22731.0118
20	**M10**	10.5	18	10	–	16	–	–	17	25	46.0	39	22731.0119

[1] Applies only when the minimum bore depth is kept to.

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Dimensions							Location hole		WS	Load capacity for static load max.	Tightening torque max.		Art. No.
d_1	d_2	d_3	l_1	l_2 -0.5	l_3 max.	Ball diameter	Ø H7	Depth min.					
[mm]							[mm]		[mm]	[kN]	[Nm]	[g]	
20	**M12**	10.5	18	12	–	16	–	–	17	25	82.0	43	22731.0120
30	**M16**	20.0	27	16	–	25	–	–	27	90	206.0	149	22731.0130
50	**M20**	34.5	35	20	–	40	–	–	41	165	407.0	482	22731.0150
50	**M24**	34.5	35	24	–	40	–	–	41	165	698.0	511	22731.0160
with male thread, flat-faced ball, bearing surface ribbed – picture 2, Heat-treated steel													
13	**M 6**	7.2	13	8	–	10	–	–	11	10	10.0	12	22731.0312
13	**M 8**	7.2	13	8	–	10	–	–	11	10	25.0	13	22731.0313
20	**M 8**	10.5	18	10	–	16	–	–	17	25	25.0	38	22731.0318
20	**M10**	10.5	18	10	–	16	–	–	17	25	46.0	39	22731.0319
20	**M12**	10.5	18	12	–	16	–	–	17	25	82.0	44	22731.0320
30	**M16**	20.0	27	16	–	25	–	–	27	90	206.0	149	22731.0330
50	**M20**	34.5	35	20	–	40	–	–	41	165	407.0	480	22731.0350
50	**M24**	34.5	35	24	–	40	–	–	41	165	698.0	513	22731.0360
for locating hole, flat-faced ball, bearing surface plain – picture 3, Heat-treated steel													
12 n6	**M 3**	7.2	17	–	3.2	10	12	12	–	10[1)]	1.3	13	22731.0412
18 n6	**M 4**	10.5	23	–	4.0	16	18	14	–	25[1)]	2.9	41	22731.0418
28 n6	**M 5**	20.0	34	–	6.0	25	28	22	–	90[1)]	6.0	151	22731.0428
for locating hole, flat-faced ball, bearing surface plain – picture 3, Stainless steel													
12 n6	**M 3**	7.2	17	–	3.2	10	12	12	–	10[1)]	1.3	13	22731.0452
18 n6	**M 4**	10.5	23	–	4.0	16	18	14	–	25[1)]	2.9	40	22731.0458
28 n6	**M 5**	20.0	34	–	6.0	25	28	22	–	90[1)]	6.0	150	22731.0468
for locating hole, flat-faced ball, bearing surface ribbed – picture 4, Heat-treated steel													
12 n6	**M 3**	7.2	17	–	3.2	10	12	12	–	10[1)]	1.3	13	22731.0712
18 n6	**M 4**	10.5	23	–	4.0	16	18	14	–	25[1)]	2.9	41	22731.0718
28 n6	**M 5**	20.0	34	–	6.0	25	28	22	–	90[1)]	6.0	150	22731.0728

[1)] Applies only when the minimum bore depth is kept to.

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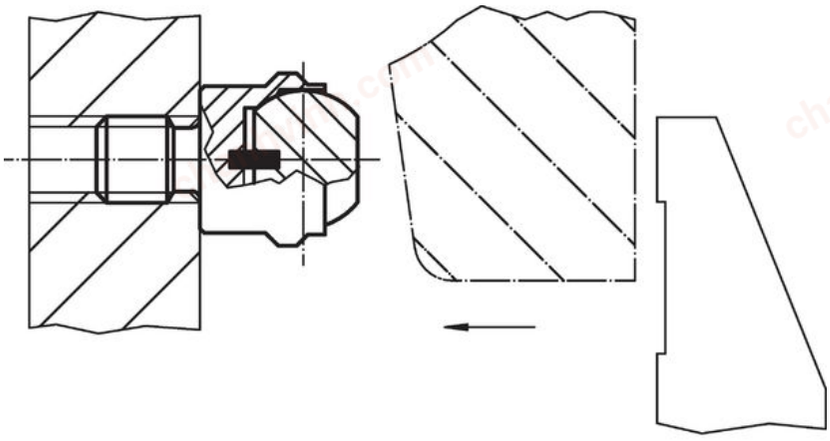
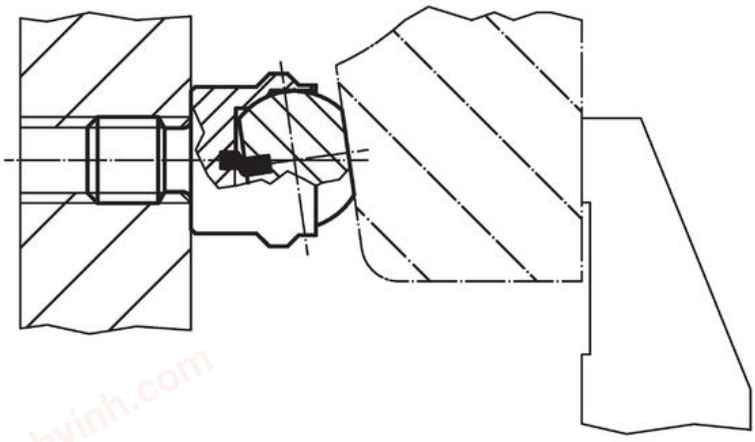
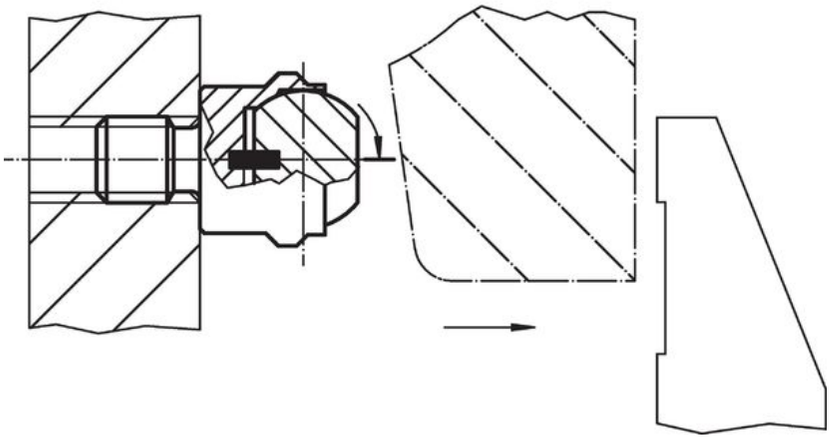
Application example







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