

ISO 7379

Shoulder screws

Steel / Stainless Steel, with collar



Specification

Version in Steel

- Tensile strength class 12.9
- blackened
- Adapter dimensions d_1 ground

Version in Stainless Steel NI

- AISI 304 (A2)
- Adapter dimension d_1 ground

Information

Shoulder screws ISO 7379 are cost-saving construction elements for a wide variety of different uses.

The maximum tightening torque must not be defined by strength class 12.9, it is instead limited by the relatively small bearing points (shoulders) and by the recesses at the transition point from d_1 to d_2 and d_3 .

Standard deviation:

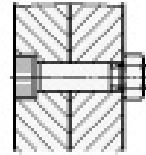
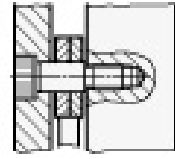
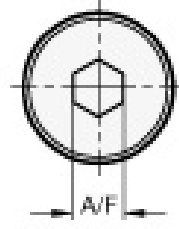
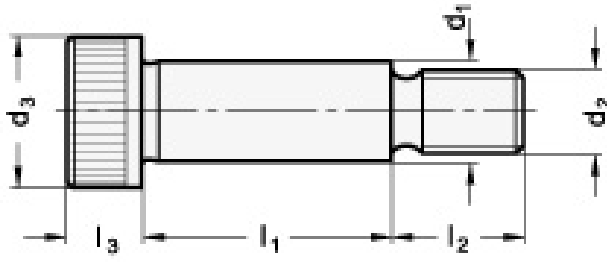
- no information about the concentricity 2 IT 13 and IT 10 2
- the official ISO standard sheet has the following dimensions for d_1 - d_2 : 6.5-M5 / 13-M10 / 25-M20
- the dimensions 4-M3 and M4-M5 are not included in the official ISO standard sheet

- Cylinder head shoulder bolts [GN 732](#)

Technical Information

- [Stainless Steel characteristics](#)
- [ISO-Fundamental Tolerances](#)
- [Strength values of screws](#)

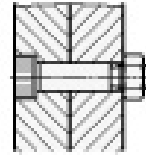
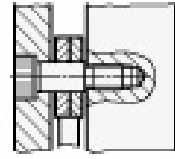
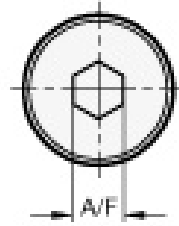
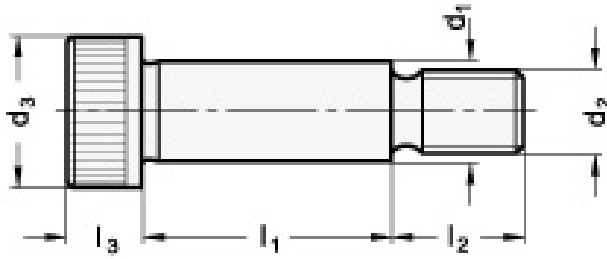
Examples of application



Description	d ₁ f9	d ₂	l ₁ +0.25	d ₃	l ₂	l ₃	A/F	Weight
ISO 7379-4-M3-4	4	M3	4	7	7	3	2	1
ISO 7379-4-M3-5	4	M3	5	7	7	3	2	2
ISO 7379-4-M3-6	4	M3	6	7	7	3	2	2
ISO 7379-4-M3-8	4	M3	8	7	7	3	2	2
ISO 7379-4-M3-10	4	M3	10	7	7	3	2	2
ISO 7379-4-M3-12	4	M3	12	7	7	3	2	6
ISO 7379-4-M3-16	4	M3	16	7	7	3	2	2
ISO 7379-4-M3-20	4	M3	20	7	7	3	2	3
ISO 7379-4-M3-25	4	M3	25	7	7	3	2	4
ISO 7379-4-M3-30	4	M3	30	7	7	3	2	4
ISO 7379-5-M4-5	5	M4	4	9	8	4	2.5	3
ISO 7379-5-M4-6	5	M4	6	9	8	4	2.5	1
ISO 7379-5-M4-8	5	M4	8	9	8	4	2.5	4
ISO 7379-5-M4-10	5	M4	10	9	8	4	2.5	1
ISO 7379-5-M4-12	5	M4	12	9	8	4	2.5	4
ISO 7379-5-M4-16	5	M4	16	9	8	4	2.5	5
ISO 7379-5-M4-20	5	M4	20	9	8	4	2.5	5
ISO 7379-5-M4-25	5	M4	25	9	8	4	2.5	7
ISO 7379-5-M4-30	5	M4	30	9	8	4	2.5	7
ISO 7379-5-M4-40	5	M4	40	9	8	4	2.5	10
ISO 7379-6-M5-10	6	M5	10	10	9.5	4.5	3	5
ISO 7379-6-M5-12	6	M5	12	10	9.5	4.5	3	6
ISO 7379-6-M5-16	6	M5	16	10	9.5	4.5	3	10
ISO 7379-6-M5-20	6	M5	20	10	9.5	4.5	3	8
ISO 7379-6-M5-25	6	M5	25	10	9.5	4.5	3	10
ISO 7379-6-M5-30	6	M5	30	10	9.5	4.5	3	10
ISO 7379-6-M5-35	6	M5	35	10	9.5	4.5	3	10
ISO 7379-6-M5-40	6	M5	40	10	9.5	4.5	3	12
ISO 7379-6-M5-45	6	M5	45	10	9.5	4.5	3	14
ISO 7379-6-M5-50	6	M5	50	10	9.5	4.5	3	14
ISO 7379-6-M5-55	6	M5	55	10	9.5	4.5	3	15
ISO 7379-6-M5-60	6	M5	60	10	9.5	4.5	3	18
ISO 7379-6-M5-65	6	M5	65	10	9.5	4.5	3	18
ISO 7379-6-M5-70	6	M5	70	10	9.5	4.5	3	19
ISO 7379-6-M5-80	6	M5	80	10	9.5	4.5	3	21
ISO 7379-8-M6-16	8	M6	16	13	11	5.5	4	14
ISO 7379-8-M6-20	8	M6	20	13	11	5.5	4	15
ISO 7379-8-M6-25	8	M6	25	13	11	5.5	4	16
ISO 7379-8-M6-30	8	M6	30	13	11	5.5	4	20
ISO 7379-8-M6-35	8	M6	35	13	11	5.5	4	19
ISO 7379-8-M6-40	8	M6	40	13	11	5.5	4	21
ISO 7379-8-M6-45	8	M6	45	13	11	5.5	4	25
ISO 7379-8-M6-50	8	M6	50	13	11	5.5	4	26
ISO 7379-8-M6-55	8	M6	55	13	11	5.5	4	28
ISO 7379-8-M6-60	8	M6	60	13	11	5.5	4	25
ISO 7379-8-M6-65	8	M6	65	13	11	5.5	4	32
ISO 7379-8-M6-70	8	M6	70	13	11	5.5	4	34
ISO 7379-8-M6-80	8	M6	80	13	11	5.5	4	38
ISO 7379-8-M6-90	8	M6	90	13	11	5.5	4	42
ISO 7379-8-M6-100	8	M6	100	13	11	5.5	4	44
ISO 7379-10-M8-16	10	M8	16	16	13	7	5	23
ISO 7379-10-M8-20	10	M8	20	16	13	7	5	25
ISO 7379-10-M8-25	10	M8	25	16	13	7	5	29
ISO 7379-10-M8-30	10	M8	30	16	13	7	5	31
ISO 7379-10-M8-35	10	M8	35	16	13	7	5	30
ISO 7379-10-M8-40	10	M8	40	16	13	7	5	41
ISO 7379-10-M8-45	10	M8	45	16	13	7	5	43
ISO 7379-10-M8-50	10	M8	50	16	13	7	5	45
ISO 7379-10-M8-55	10	M8	55	16	13	7	5	47
ISO 7379-10-M8-60	10	M8	60	16	13	7	5	50
ISO 7379-10-M8-65	10	M8	65	16	13	7	5	53
ISO 7379-10-M8-70	10	M8	70	16	13	7	5	56
ISO 7379-10-M8-80	10	M8	80	16	13	7	5	62
ISO 7379-10-M8-90	10	M8	90	16	13	7	5	68

ISO 7379-10-M8-100	10	M 8	100	16	13	7	5	75
ISO 7379-12-M10-16	12	M 10	16	18	16	9	6	35
ISO 7379-12-M10-20	12	M 10	20	18	16	9	6	39
ISO 7379-12-M10-25	12	M 10	25	18	16	9	6	43
ISO 7379-12-M10-30	12	M 10	30	18	16	9	6	60
ISO 7379-12-M10-35	12	M 10	35	18	16	9	6	51
ISO 7379-12-M10-40	12	M 10	40	18	16	9	6	61
ISO 7379-12-M10-45	12	M 10	45	18	16	9	6	60
ISO 7379-12-M10-50	12	M 10	50	18	16	9	6	65
ISO 7379-12-M10-55	12	M 10	55	18	16	9	6	71
ISO 7379-12-M10-60	12	M 10	60	18	16	9	6	76
ISO 7379-12-M10-65	12	M 10	65	18	16	9	6	75
ISO 7379-12-M10-70	12	M 10	70	18	16	9	6	83
ISO 7379-12-M10-80	12	M 10	80	18	16	9	6	91
ISO 7379-12-M10-90	12	M 10	90	18	16	9	6	96
ISO 7379-12-M10-100	12	M 10	100	18	16	9	6	100
ISO 7379-16-M12-25	16	M 12	25	24	18	11	8	85
ISO 7379-16-M12-30	16	M 12	30	24	18	11	8	93
ISO 7379-16-M12-35	16	M 12	35	24	18	11	8	100
ISO 7379-16-M12-40	16	M 12	40	24	18	11	8	108
ISO 7379-16-M12-45	16	M 12	45	24	18	11	8	116
ISO 7379-16-M12-50	16	M 12	50	24	18	11	8	123
ISO 7379-16-M12-55	16	M 12	55	24	18	11	8	131
ISO 7379-16-M12-60	16	M 12	60	24	18	11	8	140
ISO 7379-16-M12-65	16	M 12	65	24	18	11	8	148
ISO 7379-16-M12-70	16	M 12	70	24	18	11	8	155
ISO 7379-16-M12-80	16	M 12	80	24	18	11	8	170
ISO 7379-16-M12-90	16	M 12	90	24	18	11	8	186
ISO 7379-16-M12-100	16	M 12	100	24	18	11	8	200
ISO 7379-20-M16-30	20	M 16	30	30	22	14	10	169
ISO 7379-20-M16-35	20	M 16	35	30	22	14	10	170
ISO 7379-20-M16-40	20	M 16	40	30	22	14	10	170
ISO 7379-20-M16-45	20	M 16	45	30	22	14	10	205
ISO 7379-20-M16-50	20	M 16	50	30	22	14	10	220
ISO 7379-20-M16-55	20	M 16	55	30	22	14	10	230
ISO 7379-20-M16-60	20	M 16	60	30	22	14	10	234
ISO 7379-20-M16-65	20	M 16	65	30	22	14	10	260
ISO 7379-20-M16-70	20	M 16	70	30	22	14	10	266
ISO 7379-20-M16-80	20	M 16	80	30	22	14	10	293
ISO 7379-20-M16-90	20	M 16	90	30	22	14	10	315
ISO 7379-20-M16-100	20	M 16	100	30	22	14	10	340
ISO 7379-24-M20-50	24	M 20	50	36	27	16	12	340
ISO 7379-24-M20-55	24	M 20	55	36	27	16	12	360
ISO 7379-24-M20-60	24	M 20	60	36	27	16	12	370
ISO 7379-24-M20-65	24	M 20	65	36	27	16	12	400
ISO 7379-24-M20-70	24	M 20	70	36	27	16	12	410
ISO 7379-24-M20-80	24	M 20	80	36	27	16	12	450
ISO 7379-24-M20-90	24	M 20	90	36	27	16	12	480
ISO 7379-24-M20-100	24	M 20	100	36	27	16	12	520

Examples of application



Description	d ₁ f9	d ₂	l ₁ +0.25	d ₃	l ₂	l ₃	A/F	Weight
ISO 7379-4-M3-4-NI	4	M3	4	7	7	3	2	1
ISO 7379-4-M3-5-NI	4	M3	5	7	7	3	2	2
ISO 7379-4-M3-6-NI	4	M3	6	7	7	3	2	2
ISO 7379-4-M3-8-NI	4	M3	8	7	7	3	2	2
ISO 7379-4-M3-10-NI	4	M3	10	7	7	3	2	2
ISO 7379-4-M3-12-NI	4	M3	12	7	7	3	2	2
ISO 7379-4-M3-16-NI	4	M3	16	7	7	3	2	3
ISO 7379-5-M4-5-NI	5	M4	4	9	8	4	2.5	3
ISO 7379-5-M4-6-NI	5	M4	6	9	8	4	2.5	3
ISO 7379-5-M4-8-NI	5	M4	8	9	8	4	2.5	4
ISO 7379-5-M4-10-NI	5	M4	10	9	8	4	2.5	4
ISO 7379-5-M4-12-NI	5	M4	12	9	8	4	2.5	4
ISO 7379-5-M4-16-NI	5	M4	16	9	8	4	2.5	5
ISO 7379-5-M4-20-NI	5	M4	20	9	8	4	2.5	5
ISO 7379-5-M4-25-NI	5	M4	25	9	8	4	2.5	6
ISO 7379-5-M4-30-NI	5	M4	30	9	8	4	2.5	7
ISO 7379-6-M5-10-NI	6	M5	10	10	9.5	4.5	3	6
ISO 7379-6-M5-12-NI	6	M5	12	10	9.5	4.5	3	6
ISO 7379-6-M5-16-NI	6	M5	16	10	9.5	4.5	3	7
ISO 7379-6-M5-20-NI	6	M5	20	10	9.5	4.5	3	8
ISO 7379-6-M5-25-NI	6	M5	25	10	9.5	4.5	3	10
ISO 7379-6-M5-30-NI	6	M5	30	10	9.5	4.5	3	10
ISO 7379-6-M5-40-NI	6	M5	40	10	9.5	4.5	3	12
ISO 7379-6-M5-50-NI	6	M5	50	10	9.5	4.5	3	14
ISO 7379-6-M5-60-NI	6	M5	60	10	9.5	4.5	3	14
ISO 7379-8-M6-16-NI	8	M6	16	13	11	5.5	4	8
ISO 7379-8-M6-20-NI	8	M6	20	13	11	5.5	4	12
ISO 7379-8-M6-25-NI	8	M6	25	13	11	5.5	4	2
ISO 7379-8-M6-30-NI	8	M6	30	13	11	5.5	4	18
ISO 7379-8-M6-40-NI	8	M6	40	13	11	5.5	4	21
ISO 7379-8-M6-50-NI	8	M6	50	13	11	5.5	4	26
ISO 7379-8-M6-60-NI	8	M6	60	13	11	5.5	4	25
ISO 7379-10-M8-16-NI	10	M8	16	16	13	7	5	23
ISO 7379-10-M8-20-NI	10	M8	20	16	13	7	5	25
ISO 7379-10-M8-25-NI	10	M8	25	16	13	7	5	29
ISO 7379-10-M8-30-NI	10	M8	30	16	13	7	5	32
ISO 7379-10-M8-40-NI	10	M8	40	16	13	7	5	41
ISO 7379-10-M8-50-NI	10	M8	50	16	13	7	5	45
ISO 7379-10-M8-60-NI	10	M8	60	16	13	7	5	50
ISO 7379-10-M8-70-NI	10	M8	70	16	13	7	5	56
ISO 7379-10-M8-80-NI	10	M8	80	16	13	7	5	62
ISO 7379-10-M8-90-NI	10	M8	90	16	13	7	5	68
ISO 7379-10-M8-100-NI	10	M8	100	16	13	7	5	75
ISO 7379-12-M10-16-NI	12	M10	16	18	16	9	6	35
ISO 7379-12-M10-20-NI	12	M10	20	18	16	9	6	39
ISO 7379-12-M10-25-NI	12	M10	25	18	16	9	6	43
ISO 7379-12-M10-30-NI	12	M10	30	18	16	9	6	47
ISO 7379-12-M10-40-NI	12	M10	40	18	16	9	6	56
ISO 7379-12-M10-50-NI	12	M10	50	18	16	9	6	65
ISO 7379-12-M10-60-NI	12	M10	60	18	16	9	6	76
ISO 7379-12-M10-70-NI	12	M10	70	18	16	9	6	86
ISO 7379-12-M10-80-NI	12	M10	80	18	16	9	6	91
ISO 7379-12-M10-90-NI	12	M10	90	18	16	9	6	96
ISO 7379-12-M10-100-NI	12	M10	100	18	16	9	6	100
ISO 7379-16-M12-30-NI	16	M12	30	24	18	11	8	93
ISO 7379-16-M12-40-NI	16	M12	40	24	18	11	8	61
ISO 7379-16-M12-50-NI	16	M12	50	24	18	11	8	123
ISO 7379-16-M12-60-NI	16	M12	60	24	18	11	8	123
ISO 7379-16-M12-70-NI	16	M12	70	24	18	11	8	155
ISO 7379-16-M12-80-NI	16	M12	80	24	18	11	8	170
ISO 7379-16-M12-90-NI	16	M12	90	24	18	11	8	186
ISO 7379-16-M12-100-NI	16	M12	100	24	18	11	8	200

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