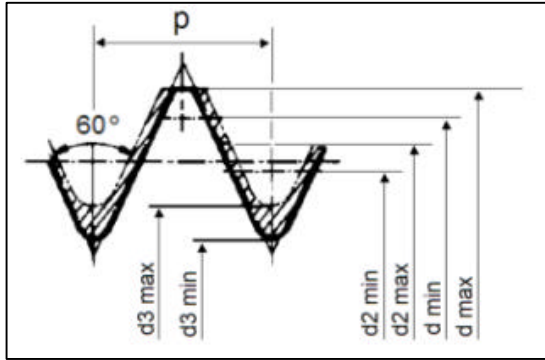


Metric (ISO) screw thread with tolerance class Sk6 at the tap end of studs DIN 939



The bold line indicates the minimum material profile

P = pitch

d = major diameter = basic diameter

d2 = pitch diameter

d3 = minor diameter

Limits of sizes for metric screw thread with tolerance class Sk6

Dimensions in mm

Basic diameter d	Pitch P	External thread (studs)					
		major diameter		pitch diameter		minor diameter	
		d max	d min	d2 max	d2 min	d3 max	d3 min
6	1	6	5.776	5.406	5.335	4.773	4.663
(7)*	1	7	6.776	6.406	6.335	5.773	5.663
8	1.25	8	7.750	7.244	7.173	6.466	6.343
(9)*	1.25	9	8.750	8.244	8.173	7.466	7.343
10	1.5	10	9.720	9.082	9.011	8.160	8.017
(11)*	1.5	11	10.720	10.082	10.011	9.160	9.017
12	1.75	12	11.600	10.943	10.843	9.853	9.691
14	2	14	13.525	12.781	12.681	11.546	11.369
16	2	16	15.525	14.781	14.681	13.546	13.369
18	2.5	18	17.470	16.456	16.356	14.933	14.731
20	2.5	20	19.470	18.456	18.356	16.933	16.731
22	2.5	22	21.470	20.456	20.356	18.933	18.731
24	3	24	23.400	22.131	22.031	20.319	20.078

* Non preferred thread sizes Callout of this screw thread e.g. M10 Sk6.

Remarks:

Tolerance class Sk6 is used for general applications such as studs (not in a sealed connection) and in combination with internal thread, tolerance class fine (4H respectively 4H5H).

These tolerance classes have to do with a transition fit, so a press fit will not always be achieved.

Note:

In the meantime a real press fit of metric screw thread (MFS) has been developed, which is achieved by an oversize on the major diameter.

For the tolerances of this screw thread refer to in DIN 8141

Part 1, and for the corresponding gauges to DIN 8141 Part 2.

These standards can only be used for application in aluminium cast alloys and for sizes M 5 up to and including M 16. Further development depends on obtained experience.