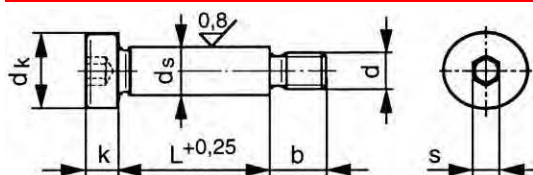


Hexagon socket head shoulder screw f9



ISO ≈7379
ASME ≈B18.3.3M
BS ≈4168-7

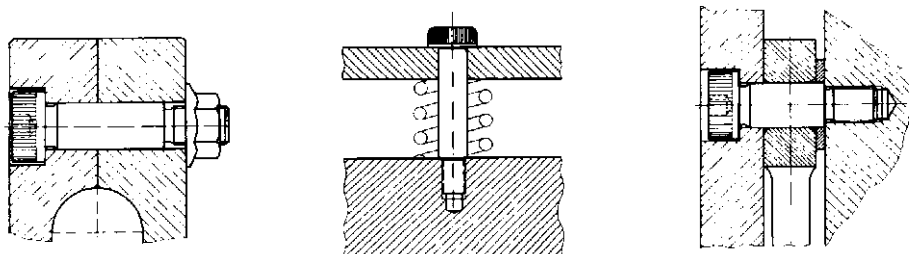


Technical Data

d	Tolerance f9 (min.)	Tolerance f9 (max.)	b	d _k (max.)	d _s (nom.)	k (max.)	P	s
M5	5.960	5.990	9.5	10.22	6	4.5	0.8	3
M6	7.951	7.987	11	13.27	8	5.5	1	4
M8	9.951	9.987	13	16.27	10	7	1.25	5
M10	11.941	11.984	16	18.27	12	9	1.5	6
M12	15.941	15.984	18	24.33	16	11	1.75	8
M16	19.928	19.980	22	30.33	20	14	2	10
M20	23.928	23.980	27	36.39	24	16	2.5	12

- Due to the unfavourable geometry of the head, these fasteners do have reduced loadability.
- When steel fasteners (e.g. 8.8 / 10.9 / 12.9) with reduced loadability needs to be marked, the marking symbol for the property class is preceded by the digit '0'. So 8.8 → 08.8 and 10.9 → 010.9 and 12.9 → 012.9.
- For the stainless steel fasteners it is indicated by only marking the steel grade and by leaving out the property class 70 (e.g. A2-70 → A2).
- The former and the new indications can occur side by side for some time.

Example of application



Materials

Thread	Driving features	Material	Class
M	Hexagon socket	St	012.9
M	Hexagon socket	St.St. A2	

Hexagon socket head shoulder screw f9

Thread Metric thread
Material Steel
Class 012.9



(d) d _s x L	(d) d _s x L	(d) d _s x L
M5 6X6 50	M6 8X45 50	M10 12X12 25
M5 6X8 50	M6 8X50 50	M10 12X16 25
M5 6X10 50	M6 8X60 50	M10 12X20 25
M5 6X12 50	M6 8X70 50	M10 12X25 25
M5 6X16 50		M10 12X30 25
M5 6X20 50	M8 10X10 50	M10 12X35 25
M5 6X25 50	M8 10X12 50	M10 12X40 25
M5 6X30 50	M8 10X16 50	M10 12X45 25
M5 6X35 50	M8 10X20 50	M10 12X50 25
M5 6X40 50	M8 10X25 50	M10 12X55 25
M5 6X45 50	M8 10X30 50	M10 12X60 25
M5 6X50 50	M8 10X35 50	M10 12X70 25
	M8 10X40 50	M10 12X80 25
M6 8X8 50	M8 10X45 50	M10 12X90 25
M6 8X10 50	M8 10X50 50	M10 12X100 25
M6 8X12 50	M8 10X55 50	M10 12X120 25
M6 8X16 50	M8 10X60 50	
M6 8X20 50	M8 10X70 50	
M6 8X25 50	M8 10X80 50	M12 16X20 25
M6 8X30 50	M8 10X90 50	M12 16X25 25
M6 8X35 50	M8 10X100 25	M12 16X30 25
M6 8X40 50	M8 10X120 25	M12 16X35 25

(d) d _s x L	(d) d _s x L	(d) d _s x L
M12 16X40 25	M16 20X30 10	M16 20X120 10
M12 16X45 25	M16 20X35 10	
M12 16X50 25	M16 20X40 10	M20 24X50 5
M12 16X55 25	M16 20X45 10	M20 24X55 5
M12 16X60 25	M16 20X50 10	M20 24X60 5
M12 16X70 25	M16 20X55 10	M20 24X70 5
M12 16X80 25	M16 20X60 10	M20 24X80 5
M12 16X90 25	M16 20X70 10	M20 24X90 5
M12 16X100 25	M16 20X80 10	M20 24X100 5
M12 16X120 25	M16 20X90 10	M20 24X120 5
	M16 20X100 10	

- Warning: electro-galvanizing of these products may cause hydrogen embrittlement.

Hexagon socket head shoulder screw f9

Thread Metric thread
Material Stainless steel A2



(d) d _s x L		(d) d _s x L		(d) d _s x L	
(M5)6X10	10	(M8)10X20	10	(M10)12X80	5
(M5)6X12	10	(M8)10X25	10	(M10)12X100	5
(M5)6X16	10	(M8)10X30	10		
(M5)6X20	10	(M8)10X40	10	(M12)16X30	5
(M5)6X25	10	(M8)10X50	10	(M12)16X40	5
(M5)6X30	10	(M8)10X60	10	(M12)16X50	5
(M5)6X40	10	(M8)10X70	10	(M12)16X60	5
		(M8)10X80	10	(M12)16X70	5
				(M12)16X80	5
(M6)8X12	10	(M10)12X16	5	(M12)16X100	5
(M6)8X16	10	(M10)12X20	5		
(M6)8X20	10	(M10)12X25	5	(M16)20X40	3
(M6)8X25	10	(M10)12X30	5	(M16)20X50	3
(M6)8X30	10	(M10)12X40	5	(M16)20X60	3
(M6)8X40	10	(M10)12X50	5	(M16)20X70	3
(M6)8X50	10	(M10)12X60	5	(M16)20X80	3
(M8)10X16	10	(M10)12X70	5		