

**Inch table**

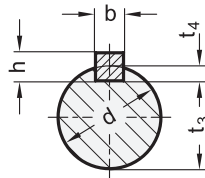
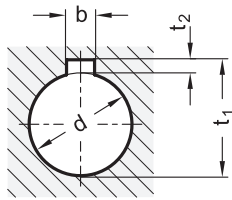
Dimensions in: inches - millimeters

d	w <sup>+0.002</sup> <sub>-0</sub> Hub keyway	w <sup>+0.002</sup> <sub>-0</sub> Shaft keyseat	h <sup>+0.001</sup> <sub>-0</sub> Key stock	t Hub keyway	s Shaft keyseat	r = d-s Reference depth
3/8	3/32	3/32	3/32	0.421 <sup>+0.01</sup> <sub>-0</sub> 10.7 <sup>+0.254</sup> <sub>-0</sub>	0.322 <sup>+0</sup> <sub>-0.015</sub> 8.2 <sup>+0</sup> <sub>-0.381</sub>	0.053 1.3
1/2	1/8	1/8	1/8	0.560 <sup>+0.01</sup> <sub>-0</sub> 14.2 <sup>+0.254</sup> <sub>-0</sub>	0.430 <sup>+0</sup> <sub>-0.015</sub> 10.9 <sup>+0</sup> <sub>-0.381</sub>	0.070 1.8
5/8	3/16	3/16	3/16	0.709 <sup>+0.01</sup> <sub>-0</sub> 18.0 <sup>+0.254</sup> <sub>-0</sub>	0.517 <sup>+0</sup> <sub>-0.015</sub> 13.1 <sup>+0</sup> <sub>-0.381</sub>	0.108 2.7
3/4	3/16	3/16	3/16	0.837 <sup>+0.01</sup> <sub>-0</sub> 21.3 <sup>+0.254</sup> <sub>-0</sub>	0.644 <sup>+0</sup> <sub>-0.015</sub> 16.4 <sup>+0</sup> <sub>-0.381</sub>	0.106 2.7
7/8	3/16	3/16	3/16	0.964 <sup>+0.01</sup> <sub>-0</sub> 24.5 <sup>+0.254</sup> <sub>-0</sub>	0.771 <sup>+0</sup> <sub>-0.015</sub> 19.6 <sup>+0</sup> <sub>-0.381</sub>	0.104 2.6
1	1/4	1/4	1/4	1.114 <sup>+0.01</sup> <sub>-0</sub> 28.3 <sup>+0.254</sup> <sub>-0</sub>	0.859 <sup>+0</sup> <sub>-0.015</sub> 21.8 <sup>+0</sup> <sub>-0.381</sub>	0.141 3.6

**Information**

By selecting the bore code **K**, standard parts such as handwheels or crank handles can be ordered with hub bores that are provided with a keyway. The keyways correspond to the ASME USAS B17.1 "Keys and Keyseats". The table above shows the dimension of the keyway / keyseat for each available hub bore diameter.

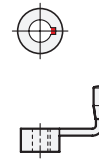
The keyways are dimensioned for use with a stock key class 2 in order to get a tight fit combination.



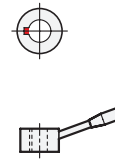
Positioning of the keyway for:



Handwheels



Crank handles



Control levers

**Metric table**

d	b P9 / JS9 Hub keyway	b P9 / N9 Shaft keyseat	h	t <sub>1</sub> = d + t <sub>2</sub>	t <sub>2</sub>	t <sub>3</sub> = d - t <sub>4</sub>	t <sub>4</sub>
6	2 0.24	2 0.08	2 0.08	7 0.28	1 +0.1 0.04 +0.004	4.8 0.19	1.2 +0.1 0.05 +0.004
7	2 0.28	2 0.08	2 0.08	8 0.31	1 +0.1 0.04 +0.004	5.8 0.23	1.2 +0.1 0.05 +0.004
8	2 0.31	2 0.08	2 0.08	9 0.35	1 +0.1 0.04 +0.004	6.8 0.27	1.2 +0.1 0.05 +0.004
9	3 0.35	3 0.12	3 0.12	10.4 0.41	1.4 +0.1 0.06 +0.004	7.2 0.28	1.8 +0.1 0.07 +0.004
10	3 0.39	3 0.12	3 0.12	11.4 0.45	1.4 +0.1 0.06 +0.004	8.2 0.32	1.8 +0.1 0.07 +0.004
11	4 0.43	4 0.16	4 0.16	12.8 0.50	1.8 +0.1 0.07 +0.004	8.5 0.33	2.5 +0.1 0.10 +0.004
12	4 0.47	4 0.16	4 0.16	13.8 0.54	1.8 +0.1 0.07 +0.004	9.5 0.37	2.5 +0.1 0.10 +0.004
13	5 0.51	5 0.20	5 0.20	15.3 0.60	2.3 +0.1 0.09 +0.004	10 0.39	3 +0.1 0.12 +0.004
14	5 0.55	5 0.20	5 0.20	16.3 0.64	2.3 +0.1 0.09 +0.004	11 0.43	3 +0.1 0.12 +0.004
15	5 0.59	5 0.20	5 0.20	17.3 0.68	2.3 +0.1 0.09 +0.004	12 0.47	3 +0.1 0.12 +0.004
16	5 0.63	5 0.20	5 0.20	18.3 0.72	2.3 +0.1 0.09 +0.004	13 0.51	3 +0.1 0.12 +0.004
17	5 0.67	5 0.20	5 0.20	19.3 0.76	2.3 +0.1 0.09 +0.004	14 0.55	3 +0.1 0.12 +0.004
18	6 0.71	6 0.24	6 0.24	20.8 0.82	2.8 +0.1 0.11 +0.004	14.5 0.57	3.5 +0.1 0.14 +0.004
20	6 0.79	6 0.24	6 0.24	22.8 0.90	2.8 +0.1 0.11 +0.004	16.5 0.65	3.5 +0.1 0.14 +0.004

Dimensions in: millimeters - inches

d	b P9 / JS9 Hub keyway	b P9 / N9 Shaft keyseat	h	t <sub>1</sub> = d + t <sub>2</sub>	t <sub>2</sub>	t <sub>3</sub> = d - t <sub>4</sub>	t <sub>4</sub>
22	6 0.87	6 0.24	6 0.24	24.8 0.98	2.8 +0.1 0.11 +0.004	18.5 0.73	3.5 +0.1 0.14 +0.004
24	8 0.94	8 0.31	7 0.28	27.3 1.07	3.3 +0.1 0.13 +0.004	20 0.79	4 +0.2 0.16 +0.008
25	8 0.98	8 0.31	7 0.28	28.3 1.11	3.3 +0.2 0.13 +0.008	21 0.83	4 +0.2 0.16 +0.008
26	8 1.02	8 0.31	7 0.28	29.3 1.15	3.3 +0.2 0.13 +0.008	22 0.87	4 +0.2 0.16 +0.008
28	8 1.10	8 0.31	7 0.28	31.3 1.23	3.3 +0.2 0.13 +0.008	24 0.94	4 +0.2 0.16 +0.008
30	8 1.18	8 0.31	7 0.28	33.3 1.31	3.3 +0.2 0.13 +0.008	26 1.02	5 +0.2 0.20 +0.008
32	10 1.26	10 0.39	8 0.31	35.3 1.39	3.3 +0.2 0.13 +0.008	27 1.06	5 +0.2 0.20 +0.008
34	10 1.34	10 0.39	8 0.31	37.3 1.47	3.3 +0.2 0.13 +0.008	29 1.14	5 +0.2 0.20 +0.008
35	10 1.38	10 0.39	8 0.31	38.3 1.51	3.3 +0.2 0.13 +0.008	30 1.18	5 +0.2 0.20 +0.008
36	10 1.42	10 0.39	8 0.31	39.3 1.55	3.3 +0.2 0.13 +0.008	31 1.22	5 +0.2 0.20 +0.008
38	10 1.50	10 0.39	8 0.31	41.3 1.63	3.3 +0.2 0.13 +0.008	33 1.30	5 +0.2 0.20 +0.008
40	12 1.57	12 0.47	8 0.31	43.3 1.70	3.3 +0.2 0.13 +0.008	35 1.38	5 +0.2 0.20 +0.008
42	12 1.65	12 0.47	8 0.31	45.3 1.78	3.3 +0.2 0.13 +0.008	37 1.46	5 +0.2 0.20 +0.008
44	12 1.73	12 0.47	8 0.31	47.3 1.86	3.3 +0.2 0.13 +0.008	39 1.54	5 +0.2 0.20 +0.008

**Information**

P9 tight fit (standard design)

JS9 or N9 loose fit (standard design)

Other tolerances / tolerance ranges must be specified separately and require a written agreement.

see also...

- Parallel Keys DIN 6885

