



- 2** **Bore code**
- B** Without keyway
 - K** With keyway (from $d_1 = 20$)

Oldham couplings with inch-inch bore

Dimensions in: inches - *millimeters*

1 d_1	3 $d_2 - d_3 + 0.001$ Bore (in-in) Recommended shaft tolerance -0.001					
0.79 20	1/4-1/4	1/4-5/16	1/4-3/8	5/16-5/16	5/16-3/8	3/8-3/8
1.18 30	3/8-3/8	3/8-1/2	1/2-1/2	-	-	-
1.50 38	1/2-1/2	1/2-5/8	1/2-3/4	5/8-5/8	5/8-3/4	3/4-3/4

Oldham couplings with metric-metric bore

Dimensions in: millimeters - *inches*

1 d_1	3 $d_2 - d_3$ H8 Bore (mm-mm) Recommended shaft tolerance h7					
8 0.31	2-2	2-3	3-3	-	-	-
12 0.47	4-4	4-5	5-5	-	-	-
15 0.59	4-4	4-5	4-6	5-5	5-6	6-6
20 0.79	6-6	6-8	6-10	8-8	8-10	10-10
30 1.18	8-8	8-10	8-12	10-10	10-12	12-12
38 1.50	12-12	12-15	12-20	15-15	15-20	20-20

Oldham couplings with metric-inch bore

Dimensions in: millimeters - *inches*

1 d_1	3 $d_2 - d_3$ H8 Bore (mm-in) Recommended shaft tolerance h7								
20 0.79	6-1/4	6-5/16	6-3/8	8-1/4	8-5/16	8-3/8	10-1/4	10-5/16	10-3/8
30 1.18	8-3/8	8-1/2	10-3/8	10-1/2	12-3/8	12-1/2	-	-	-
38 1.50	12-1/2	12-5/8	12-3/4	15-1/2	15-5/8	15-3/4	20-1/2	20-5/8	20-3/4

Dimensions in: millimeters - inches

d ₁	d ₄ Thread	d ₅	l ₁	l ₂ Recommended shaft insertion depth	l ₃	Tightening torque of the screw in Nm ≈
8 0.31	M 2	3.1 0.12	9.6 0.38	2.5 0.10	1.3 0.05	0.3
12 0.47	M 3	5.2 0.20	14.2 0.56	3.9 0.15	2 0.08	0.7
15 0.59	M 3	8.2 0.32	16 0.63	4.4 0.17	2.2 0.09	0.7
20 0.79	M 4	12.2 0.48	21.4 0.84	5.8 0.23	2.9 0.11	1.7
30 1.18	M 4	16.2 0.64	32.5 1.28	10 0.39	5 0.20	1.7
38 1.50	M 5	20.3 0.80	40 1.57	12.1 0.48	6.1 0.24	4

d ₁	Rated torque in Nm*	Max. torque in Nm*	Max. speed (min ⁻¹)	Moment of inertia in kgm ²	Static torsional stiffness in Nm/rad	Max. shaft misalignment	
						Lateral	Angular in °
8 0.31	0.5	1	78,000	7.4 x 10 ⁻⁹	12	0.7 0.028	3
12 0.47	1	2	52,000	5.3 x 10 ⁻⁸	60	1 0.039	3
15 0.59	1.6	3.2	42,000	1.4 x 10 ⁻⁷	80	1 0.039	3
20 0.79	3.2	6.4	31,000	5.7 x 10 ⁻⁷	120	1.2 0.047	3
30 1.18	15	30	21,000	5.4 x 10 ⁻⁶	530	2 0.079	3
38 1.50	28	56	16,000	1.6 x 10 ⁻⁵	1500	2.5 0.098	3

*Load fluctuations are not taken into account

Specification



- Hub
Aluminum **AL**
Anodized finish, natural color
- Spacer
Plastic (Polyacetal POM) **KU**
Temperature resistant up to 176 °F (80 °C)
- Set screws
Steel, blackened finish
- For d₂ / d₃ ≤ 4, one set screw
- For d₂ / d₃ > 4, two set screws
- Temperature range from: -4 °F up to +176 °F
(-20 °C up to +80 °C)
- Keyways WN / DIN 6885 → page XYZ / QVX
- ISO Fundamental Tolerances → page QVX
- Plastic Characteristics → page QVX
- RoHS compliant

Information

Oldham couplings GN 2243 can compensate for large lateral shaft misalignments while transmitting high torques. As a result, they are used in applications with a focus on pure torque and power transmission associated with high lateral shaft misalignments.

The use of set screws for clamping and the simple plug-in installation make oldham couplings very easy to assemble. They are suitable for a diverse range of applications and are used in general machine construction in packaging machines and pumps.

With the bore code K, the keyway is always integrated into both bores d₂ and d₃.

see also...

- *Elastomer Jaw Couplings GN 2241 (Hub with Set Screw)* → page QVX
- *Oldham Couplings GN 2242 (with Clamping Hub)* → page QVX
- *Installation Information on Couplings* → page XYZ
- *Technical Information on Couplings* → page XYZ

How to order

GN 2243-38-B1/2-1/2-AL-KU

- | | |
|---|-------------------------------------|
| 1 | Outside diameter d ₁ |
| 2 | Bore code |
| 3 | Bore d ₂ -d ₃ |
| 4 | Material (Hub) |
| 5 | Material (Spacer) |

3.1
3.2
3.3
3.4
3.5
3.6
3.7
3.8
3.9
3.10