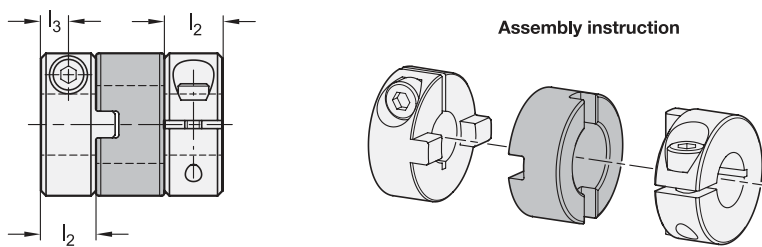


**2** Bore code

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



**Oldham couplings with inch-inch bore**

**1** **3** Dimensions in: inches - millimeters

$d_1$	$d_2 - d_3 + 0.001$ 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**

**1** **3** Dimensions in: millimeters - inches

$d_1$	$d_2 - d_3$ H8 Bore (mm-mm) Recommended shaft tolerance h7					
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**

**1** **3** Dimensions in: millimeters - inches

$d_1$	$d_2 - d_3$ 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 <sub>1</sub>	d <sub>4</sub> Thread	d <sub>5</sub>	l <sub>1</sub>	l <sub>2</sub> Recommended shaft insertion depth	l <sub>3</sub>	l <sub>4</sub>
12 0.47	M 2	5.2 0.20	19 0.75	6.2 0.24	3.1 0.12	4 0.16
15 0.59	M 2.5	8.2 0.32	21.2 0.83	7 0.28	3.5 0.14	5 0.20
20 0.79	M 3	12.2 0.48	27 1.06	8.8 0.35	4.4 0.17	7.5 0.30
30 1.18	M 4	16.2 0.64	32.5 1.28	10 0.39	5 0.20	11.1 0.44
38 1.50	M 5	20.3 0.80	40 1.57	12.1 0.48	6 0.24	14.2 0.56

d <sub>1</sub>	Rated torque in Nm*	Max. torque in Nm*	Max. speed (min <sup>-1</sup> )	Moment of inertia in kgm <sup>2</sup>	Static torsional stiffness in Nm/rad	Max. shaft misalignment	
						Lateral	Angular in °
12 0.47	1	2	52,000	6.6 x 10 <sup>-8</sup>	60	1 0.039	3
15 0.59	1.6	3.2	42,000	1.7 x 10 <sup>-7</sup>	80	1 0.039	3
20 0.79	3.2	6.4	31,000	8.0 x 10 <sup>-7</sup>	120	1.2 0.047	3
30 1.18	15	30	21,000	5.3 x 10 <sup>-6</sup>	530	2 0.079	3
38 1.50	28	56	16,000	1.5 x 10 <sup>-5</sup>	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)
- Socket cap screws DIN 912  
Steel, blackened finish
- 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 2242 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 clamping hubs and 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 d<sub>2</sub> and d<sub>3</sub>.

see also...

- Oldham Couplings GN 2243 (Hub with Set Screw) → page QVX
- Elastomer Jaw Couplings GN 2240 (with Clamping Hub) → page QVX
- Installation Information on Couplings → page XYZ
- Technical Information on Couplings → page XYZ

How to order	
1	Outside diameter d <sub>1</sub>
2	Bore code
3	Bore d <sub>2</sub> -d <sub>3</sub>
4	Material (Hub)
5	Material (Spacer)

1 2 3 4 5  
**GN 2242-20-B1/4-3/8-AL-KU**

3.1  
3.2  
3.3  
3.4  
3.5  
3.6  
3.7  
3.8  
3.9  
3.10