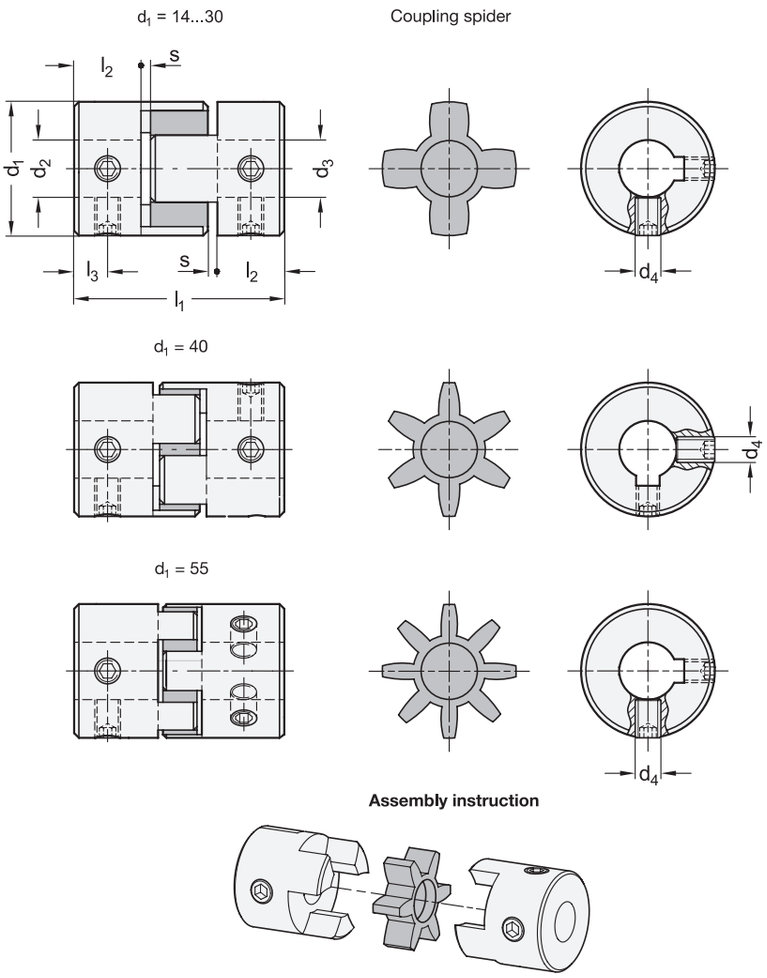
GN 2241 | Elastomer Jaw Couplings

Aluminum, Hub with Set Screw

JW WINCO® A Ganter Company



Assembly instruction

Inch | Metric



2 Bore code

B Without keyway
K With keyway (from d_1 = 30)

Specification

	4	5
• Hub		
Aluminum	**AL**	
Anodized finish, natural color		
• Coupling spider		
Thermoplastic Polyurethane (TPU)		
Temperature resistant up to 140 °F (60 °C)		
Hardness		
80 shore A, blue		**BS**
92 shore A, white		**WS**
98 shore A, red		**RS**
• Set screws		
- Steel, blackened finish		
- For d_2 / d_3 ≤ 4, one set screw		
- For d_2 / d_3 > 4, two set screws		
• Temperature range: -4 °F up to +140 °F (-20 °C up to +60 °C)		
• *Keyways WN / DIN 6885 → page XYZ / QVX*		
• *ISO Fundamental Tolerances → page QVX*		
• *Elastomer Characteristics → page QVX*		
• RoHS compliant		

Accessory

- Coupling spiders GN 2240.1 → *page QVX*

Information

Elastomer jaw couplings GN 2241 can transmit very high torques while compensating for shaft misalignments and runout tolerances. They are preferred in applications where the focus lies on pure torque and power transmission.

The choice of three coupling spiders with different hardness values allows the properties of the coupling to be optimally matched to the specific requirements. The use of set screws for clamping and the simple plug-in installation make jaw couplings very easy to assemble.

With the bore code K, the keyway is always integrated into both bores d_2 and d_3.

see also...

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

How to order

1 2 3 4 5
GN 2241-14-B1/4-1/4-AL-BS

1	**Outside diameter d_1**
2	**Bore code**
3	**Bore d_2-d_3**
4	**Material**
5	**Hardness**

Jaw couplings with inch-inch bore

Dimensions in: inches - *millimeters*

d_1	d_2 - d_3 +0.001 Bore (in-in) Recommended shaft tolerance –0.001									
0.55 *14*	3/16-3/16	3/16-1/4	1/4-1/4	-	-	-	-	-	-	-
0.79 *20*	3/16-3/16	3/16-1/4	3/16-5/16	3/16-3/8	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*	5/16-5/16	5/16-3/8	5/16-1/2	5/16-5/8	3/8-3/8	3/8-1/2	3/8-5/8	1/2-1/2	1/2-5/8	5/8-5/8
1.57 *40*	3/8-3/8	3/8-1/2	3/8-5/8	3/8-3/4	1/2-1/2	1/2-5/8	1/2-3/4	5/8-5/8	5/8-3/4	3/4-3/4
2.17 *55*	1/2-1/2	1/2-5/8	1/2-3/4	1/2-7/8	5/8-5/8	5/8-3/4	5/8-7/8	3/4-3/4	3/4-7/8	7/8-7/8

Jaw couplings with metric-metric bore

Dimensions in: millimeters - *inches*

d_1	d_2 - d_3 H8 Bore (mm-mm) Recommended shaft tolerance h7									
14 *0.55*	3-3	3-4	3-5	3-6	4-4	4-5	4-6	5-5	5-6	6-6
20 *0.79*	5-5	5-6	5-8	6-6	6-8	8-8	-	-	-	-
30 *1.18*	8-8	8-10	8-12	8-14	10-10	10-12	10-14	12-12	12-14	14-14
40 *1.57*	12-12	12-14	12-15	12-16	14-14	14-15	14-16	15-15	15-16	16-16
55 *2.17*	18-18	18-19	18-20	18-25	19-19	19-20	19-25	20-20	20-25	25-25

Jaw couplings with metric-inch bore

Dimensions in: millimeters - *inches*

d_1	d_2 - d_3 H8 Bore (mm-in) Recommended shaft tolerance h7															
14 *0.55*	3-3/16	3-1/4	4-3/16	4-1/4	5-3/16	5-1/4	6-3/16	6-1/4	-	-	-	-	-	-	-	-
20 *0.79*	5-3/16	5-1/4	5-5/16	5-3/8	6-3/16	6-1/4	6-5/16	6-3/8	8-3/16	8-1/4	8-5/16	8-3/8	-	-	-	-
30 *1.18*	8-5/16	8-3/8	8-1/2	8-5/8	10-5/16	10-3/8	10-1/2	10-5/8	12-5/16	12-3/8	12-1/2	12-5/8	14-5/16	14-3/8	14-1/2	14-5/8
40 *1.57*	12-3/8	12-1/2	12-5/8	12-3/4	14-3/8	14-1/2	14-5/8	14-3/4	15-3/8	15-1/2	15-5/8	15-3/4	16-3/8	16-1/2	16-5/8	16-3/4
55 *2.17*	18-1/2	18-5/8	18-3/4	18-7/8	19-1/2	19-5/8	19-3/4	19-7/8	20-1/2	20-5/8	20-3/4	20-7/8	25-1/2	25-5/8	25-3/4	25-7/8

d_1	d_4 Thread	l_1	l_2 Recommended shaft insertion depth	l_3	s Recommended installation spacing	Tightening torque of the screw in Nm ≈
14 *0.55*	M 3	22 *0.87*	7 *0.28*	3.5 *0.14*	1 *0.04*	0.7
20 *0.79*	M 3	30 *1.18*	10 *0.39*	5 *0.20*	1 *0.04*	0.7
30 *1.18*	M 4	35 *1.38*	11 *0.43*	5.5 *0.22*	1.5 *0.06*	1.7
40 *1.57*	M 5	66 *2.60*	25 *0.98*	8.5 *0.33*	2 *0.08*	4
55 *2.17*	M 6	78 *3.07*	30 *1.18*	10.5 *0.41*	2 *0.08*	7

Dimensions in: millimeters - *inches*

d_1	Coupling spider	Shore hardness coupling spider	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	Axial	Angular in °
14 *0.55*	BS	80A	0.7	1.4	45,000	2.0×10^{-7}	8	0.15 *0.006*	0.6 *0.024*	1
	WS	92A	1.2	2.4	45,000	2.0×10^{-7}	14	0.1 *0.004*	0.6 *0.024*	1
	RS	98A	2	4	45,000	2.0×10^{-7}	22	0.1 *0.004*	0.6 *0.024*	1
20 *0.79*	BS	80A	1.8	3.6	31,000	1.1×10^{-6}	16	0.2 *0.008*	0.8 *0.031*	1
	WS	92A	3	6	31,000	1.1×10^{-6}	29	0.15 *0.006*	0.8 *0.031*	1
	RS	98A	5	10	31,000	1.1×10^{-6}	55	0.1 *0.004*	0.8 *0.031*	1
30 *1.18*	BS	80A	4	8	21,000	6.2×10^{-6}	46	0.2 *0.008*	1 *0.039*	1
	WS	92A	7.5	15	21,000	6.2×10^{-6}	73	0.15 *0.006*	1 *0.039*	1
	RS	98A	12.5	25	21,000	6.2×10^{-6}	130	0.1 *0.004*	1 *0.039*	1
40 *1.57*	BS	80A	4.9	9.8	15,000	3.7×10^{-5}	380	0.15 *0.006*	1.2 *0.047*	1
	WS	92A	10	20	15,000	3.7×10^{-5}	570	0.1 *0.004*	1.2 *0.047*	1
	RS	98A	17	34	15,000	3.7×10^{-5}	1200	0.1 *0.004*	1.2 *0.047*	1
55 *2.17*	BS	80A	17	34	11,000	1.6×10^{-4}	1400	0.2 *0.008*	1.4 *0.055*	1
	WS	92A	35	70	11,000	1.6×10^{-4}	1600	0.15 *0.006*	1.4 *0.055*	1
	RS	98A	60	120	11,000	1.6×10^{-4}	2600	0.1 *0.004*	1.4 *0.055*	1