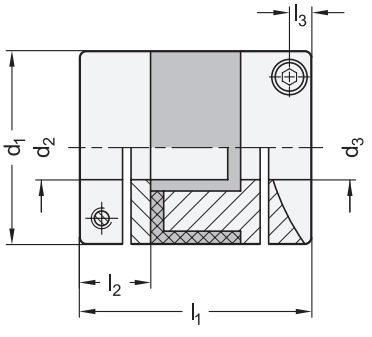
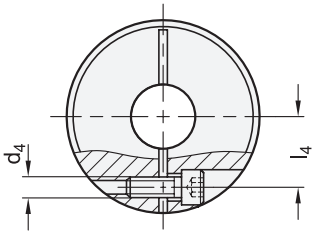
High Response Couplings

Aluminum, Vulcanized, Vibration-Damping, with Clamping Hub





Metric

2 Bore code

B Without keyway

Metric table

Dimensions in: millimeters / inches

1 d_1	3 d_2 - d_3 H8 Recommended shaft tolerance h7						d_4	l_1	l_2 Max. shaft insertion depth	l_3	l_4
15 0.59	4-4	4-5	5-5	-	-	-	M 1.6	23 0.91	6.5 0.26	2.2 0.08	5 0.20
19 0.75	5-5	5-6	5-8	6-6	6-8	8-8	M 2	26 1.02	7.7 0.30	2.7 0.10	6.5 0.26
25 0.98	6-6	6-8	6-10	8-8	8-10	10-10	M 2.5	32 1.26	9.5 0.37	3.3 0.13	9 0.35
30 1.18	8-8	8-10	8-12	10-10	10-12	12-12	M 3	36 1.42	11 0.43	4 0.16	11 0.43
39 1.54	12-12	12-14	12-16	14-14	14-16	16-16	M 4	48 1.89	15.5 0.61	4.5 0.18	14.5 0.57
56 2.20	20-20	20-25	25-25	-	-	-	M 5	60 2.36	19.5 0.77	5.5 0.22	20 0.79

d_1	Tightening torque of the screws in Nm ≈	Rated torque in Nm	Max. rotational speed (min^{-1})	Moment of inertia in kgm^2	Static torsional stiffness in Nm/rad	Max. shaft offset		
						Lateral	Axial	Angular in °
15 0.59	0.25	1.1	42000	2.3×10^{-7}	43	0.2 0.008	± 0.2 0.008	1.5
19 0.75	0.5	2.1	33000	6.9×10^{-7}	88	0.2 0.008	± 0.2 0.008	1.5
25 0.98	1	4	25000	2.5×10^{-6}	140	0.2 0.008	± 0.2 0.008	1.5
30 1.18	1.5	6.3	21000	6×10^{-6}	220	0.2 0.008	± 0.3 0.012	1.5
39 1.54	2.5	13.5	16000	2.3×10^{-5}	520	0.2 0.008	± 0.3 0.012	1.5
56 2.20	7	35	11000	1.2×10^{-4}	1500	0.2 0.008	± 0.3 0.012	1.5

Specification

Hub (4: AL)

Aluminum

Elastomer element (5: H)

Hydrogenated acrylonitrile butadiene rubber (HNBR)

- Black
- Hardness 75 ±5 Shore A

Operating temperature

-4 °F to +176 °F (-20 °C to +80 °C)

Socket cap screws ISO 4762

Steel, blackened finish

RoHS

Technical Information	Page
Couplings - Overview of Types	QVX
General Information for Couplings	QVX
Mounting Information for Couplings	QVX
Technical Information for Couplings	QVX
ISO Fundamental Tolerances	QVX
Plastic Characteristics	QVX

High response couplings GN 2248 transmit angular positions and torques with high precision and zero backlash. The elastomer element bonds the clamping hubs together, compensating for shaft misalignments and runout tolerances. The clamping hubs ensure easy installation.

High response couplings GN 2248 are primarily used in applications where precise position and motion transmission is required, e.g., in drive technology on test benches or similar applications.

see also...	Page
GN 2244 Bellows Couplings (Aluminum)	QVX
GN 2250 Double Loop Couplings (Steel / Stainless Steel)	QVX
GN 2262 Rigid Couplings (Aluminum)	QVX

How to order

1 2 3 4 5

GN 2248-30-B10-10-AL-H

1	Diameter d_1
2	Bore code
3	Bore d_2 - d_3
4	Material (Hub)
5	Material (Elastomer element)