

Guide for Coupling Section

Dimensional Parameters

COUPLING TYPE		TORQUE RANGE IN.-OZ.	RANGE OF MAXIMUM PARALLEL MISALIGN.	RANGE OF MAXIMUM ANGULAR MISALIGN.
INFORMATION TRANSMITTING COUPLINGS	MULTIBEAM: -ST/ST+AL -PLASTIC	64-7200 35-1273	.005-.038 .005-.038	5°-7° 5°-10°
	BEAMED	56-1488	.004-.005	5°
	WAFER SPRING	165-440	.018-.030	8°
	BELLOWS	40-175	.012-.027	4°-7°
	SLEEVE	5-5833	0	0°
SHOCK ABSORBING COUPLINGS	SPIDER	42-3520	.031-.078	1°
	NEO-FLEX	150	.005	1°
	ABSORBATHANE	48-640	.094-.125	10°-15°
MISALIGNMENT COUPLINGS	UNIVERSAL LATERAL	38-607	.050	5°-10°
	OLDHAM	16-3200	.030-.200	1/2°-1 1/4°
HIGH MISALIGNMENT COUPLINGS	FLEX-THANE	400-3200	.063-1.250	10°-30°
	UNIVERSAL JOINTS: - ST/ST - DELRIN®	480-4240	0	30°
		16-239	0	45°
	SINGLE JOINT -DELRIN®	11-183	.220-.610	90°
	DOUBLE JOINT			
TELESCOPIC UNIVERSAL JOINT	55-239	1.920-3.770	60°	
FLEXIBLE SHAFT	*	*	*	

W.M. Berg Inc. manufactures a complete line of precision made, high quality couplings. Available in inch and metric sizes and many styles to accommodate any design requirement. Couplings can be placed into the following four categories;

1. Information Transmitting Couplings - These zero backlash high torsional rigidity couplings, are for precision positioning applications where constant velocity is required for accurate feedback control.

2. Shock Absorbing Couplings - As a result of flexible plastic members connecting their hubs, these couplings dampen vibrations and shock loads and electrically insulate shafting.

Guide for Coupling Section

Environmental Parameters

COUPLING TYPE		HIGH TORSIONAL STIFFNESS	VIBRATION DAMPENING	VACUUM COMPATIBILITY	ELECTRICAL INSULATION	CLEAN ROOM ENVIRONMENT
INFORMATION TRANSMITTING COUPLINGS	MULTIBEAM: -ST/ST+AL -PLASTIC	E G	- -	E -	- E	E G
	BEAMED	E	-	E	-	E
	WAFER SPRING	E	-	E	-	E
	BELLOWS	E	-	E	-	E
	SLEEVE	E	-	E	-	E
SHOCK ABSORBING COUPLINGS	SPIDER	-	G	-	E	G
	NEO-FLEX	-	E	-	E	G
	ABSORBATHANE	-	E	-	E	G
MISALIGNMENT COUPLINGS	UNIVERSAL LATERAL	G	-	-	E	-
	OLDHAM	G	-	-	E	-
HIGH MISALIGNMENT COUPLINGS	FLEX-THANE	-	E	-	E	G
	UNIVERSAL JOINTS: - ST/ST - DELRIN®	G -	- -	E -	- E	- -
	SINGLE JOINT -DELRIN®, DOUBLE JOINT	-	-	-	E	-
	TELESCOPIC UNIVERSAL JOINT	-	-	-	E	-
	FLEXIBLE SHAFTS	E	E	-	-	G

E = Excellent

G = Good

- = Not Recommended

3. Misalignment Couplings - The sliding center elements of these couplings compensate for lateral and angular misalignment caused by tolerance buildup or as a result of mounting.

4. High Misalignment Couplings - These couplings allow the designer to have shafts that are intentionally offset, laterally or angularly, by a large amount.

The above charts are a guide for the proper selection of the Berg coupling best suited for your particular applications.