



The tightening torque listed in the table are maximum values which are based on the combined stress from tension and torsion to reach 90 % of the minimum yield value. They are only valid for normal surface finishes and when slight lubrication is applied to the thread and contact surfaces of bolt heads and nuts. If threads have received special treatment, tightening torques must be reduced accordingly. To achieve maximum friction, flange faces should be clean, free of lubrication and the surface finish should not exceed 25 µm.

Bolts are normally inserted from the companion flange side and turned diameter „C“ serves as a bolt head lock. Only on certain Universal Joint sizes can the bolts be inserted from the Universal Joint side without any reworking.

When encountering distinct reversing operation, it is advisable to reinforce the bolts with adapter sleeves or to employ serrated flanges.

The indicated numbers per Kit refer to a drive shaft having 2 flanges.

Flange bolt Kit

Order number	0.105.192.001	0.106.192.001	0.107.192.001	0.109.192.001	0.110.192.001	0.112.192.001	0.113.192.001	0.148.192.001	0.158.192.001	0.117.192.001
for joint size	105	105/106	106/107	107/109	109/110	110/112	112/113	148	158	117
Flange-Ø A mm	58	65	75	90	100	120	120/150	150/180	150/180	150
Hexagon head bolts DIN EN 24014-10.9 mm	M5 x 14	M6 x 18	M6 x 18	M8 x 24	M8 x 24	M8 x 26	M10 x 30	M12 x 35	M12 x 40	M12 x 40
Number per Kit	8	8	12	8	12	16	16	16	16	24
Hexagon head bolts DIN EN ISO 7042-10 mm	M5	M6	M6	M8	M8	M8	M10	M12	M12	M12
Number per Kit	8	8	12	8	12	16	16	16	16	24
Tightening torque Nm	8,5	14	14	35	35	35	69	120	120	120

Order number	0.117.192.002	0.117.192.003	0.120.192.001	0.120.192.002	0.122.192.002	0.122.192.003				
for joint size	117	158/117	120/122	120/122	120/122	122				
Flange-Ø A mm	165/180	165/180	180	180/225	225	250				
Hexagon head bolts DIN EN 24014-10.9 mm	M16 x 46	M14 x 42	M16 x 50	M16 x 50	M16 x 50	M18 x 60				
Number per Kit	16	16	20	16	24	16				
Hexagon head bolts DIN EN ISO 7042-10 mm	M16	M14	M16	M16	M16	M18				
Number per Kit	16	16	20	16	24	16				
Tightening torque Nm	295	190	295	295	295	450				

Flange with cross serration

Order number	0.112.192.003	0.158.192.005	0.117.192.008						
for joint size	112/113/148	158/117	117/120/122						
Flange-Ø A mm	120	150	180						
Hexagon head bolts DIN EN 24014-10.9 mm	M10 x 40	M12 x 40	M14 x 45						
Number per Kit	8	8	8						
Hexagon head bolts DIN EN ISO 7042-10 mm	M10	M12	M14						
Number per Kit	8	8	8						
Tightening torque Nm	46	79	125						