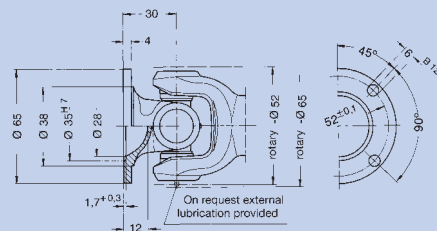


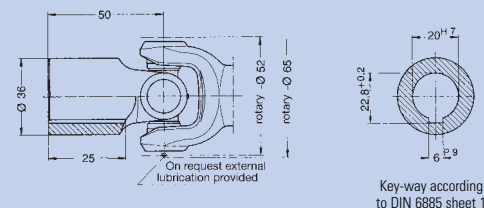
Standard flange
end number: 0.105.XX0

At utilisation of the nominal torque a verification of the flange connection is necessary.



Larger flange
end number: 0.105.XX1

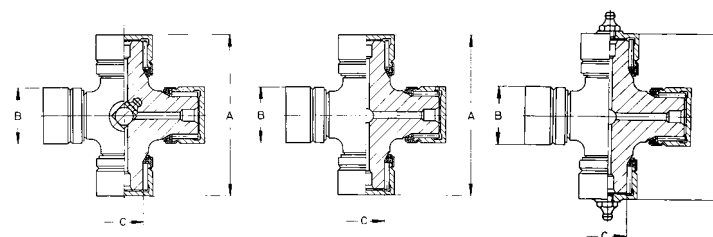
One keyway is not enough to transmit the max. torque. In such case a second keyway or an internal spline is recommended.



Connecting hub
without keyway end number: 0.105.XX2
with keyway end number: 0.105.XX3

Key-way according to DIN 6885 sheet 1

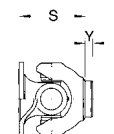
Cross Units, Needle bearing version



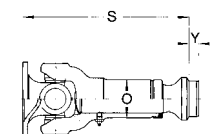
		Standard version Needle bearing	Lubrication for version 0.100.3XX Needle bearing	Version suitable for external lubrication Needle bearing
Order number		0.105.010	0.105.011	0.105.012
A	mm	41	41	41
B	mm	17	17	17
C	mm	9	9	9
Snap rings included	mm	J 17 x 1	J 17 x 1	J 17 x 1
Weight	kg	0,098	0,098	0,102

β = Maximum angle of deflection per joint
X = Preferred extension (larger extension available up to approx. 9 x spline o. D.)

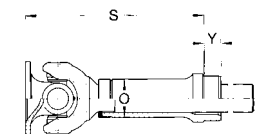
Fixed joint



Slip joint

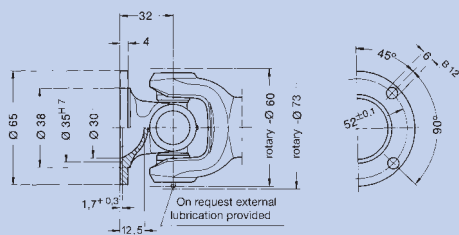


Slip joint (sliding sleeve type)

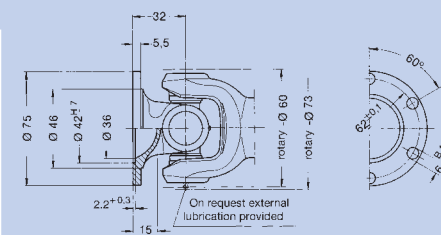


Please indicate compressed length „S“, extension and required type of flange when ordering!

	Needle bearing version											
	without extension				standard extension				larger extension			
Order number	0.105.050	0.105.051	0.105.052	—	0.105.060	0.105.061	0.105.062	—	0.105.070	0.105.071	0.105.072	—
Angle of deflection β °	30	25	30	—	30	25	30	—	30	25	30	—
Weight kg	0,42	0,46	0,49	—	0,73	0,77	0,80	—	0,79	0,83	0,86	—
Flange-Ø mm	58	65	Hub	—	58	65	Hub	—	58	65	Hub	—
S mm	62	62	82	—	150	150	170	—	160	160	180	—
X mm	—	—	—	—	25	25	25	—	40	40	40	—
Y mm	13	13	13	—	13	13	13	—	8	8	8	—
Z mm	25,25	25,25	25,25	—	25,25	25,25	25,25	—	25,25	25,25	25,25	—
Spline dim. DIN 5480 mm	—	—	—	—	20x1,5x12	20x1,5x12	20x1,5x12	—	20x1,5x12	20x1,5x12	20x1,5x12	—
Number of flange holes	4	4	—	—	4	4	—	—	4	4	—	—

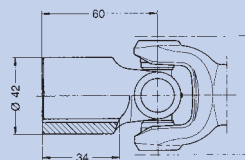


Standard flange
end number: 0.106.XX0

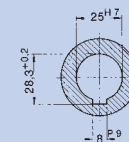


Larger flange
end number: 0.106.XX1

One keyway is not enough to transmit the max. torque. In such case a second keyway or an internal spline is recommended.

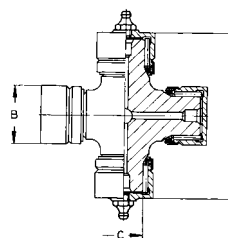
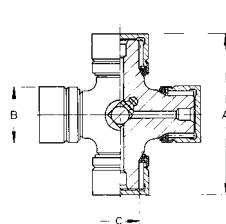


Connecting hub
without keyway end number: 0.106.XX2
with keyway end number: 0.106.XX3



Key-way according to DIN 6885 sheet 1

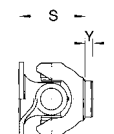
Cross Units, Needle bearing version



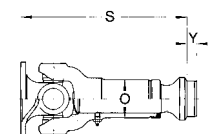
		Standard version Needle bearing		Version suitable for external lubrication Needle bearing	
Order number		0.106.010		0.106.012	
A	mm	48		48	
B	mm	19		19	
C	mm	12,7		12,7	
Snap rings included	mm	J 19 x 1		J 19 x 1	
Weight	kg	0,14		0,144	

β = Maximum angle of deflection per joint
X = Preferred extension (larger extension available up to approx. 9 x spline o. D.)

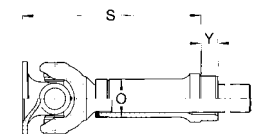
Fixed joint



Slip joint

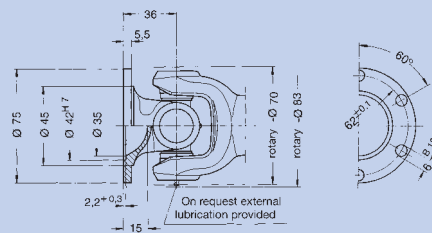


Slip joint (sliding sleeve type)

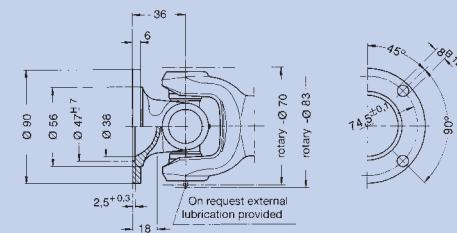


Please indicate compressed length „S“, extension and required type of flange when ordering!

		Needle bearing version											
		without extension				standard extension				larger extension			
Order number		0.106.050	0.106.051	0.106.052	—	0.106.060	0.106.061	0.106.062	—	0.106.070	0.106.071	0.106.072	—
Angle of deflection β	°	30	20	30	—	30	20	30	—	30	20	30	—
Weight	kg	0,56	0,65	1,30	—	1,18	1,27	1,30	—	1,25	1,34	1,37	—
Flange-Ø	mm	65	75	Hub	—	65	75	Hub	—	65	75	Hub	—
S	mm	64	64	92	—	167	167	195	—	177	177	205	—
X	mm	—	—	—	—	30	30	30	—	60	60	60	—
Y	mm	13	13	13	—	13	13	13	—	9	9	9	—
Z	mm	29,25	29,25	29,25	—	29,25	29,25	29,25	—	29,25	29,25	29,25	—
Spline dim. DIN 5480	mm	—	—	—	—	25x1,5x15	25x1,5x15	25x1,5x15	—	25x1,5x15	25x1,5x15	25x1,5x15	—
Number of flange holes		4	6	—	—	4	6	—	—	4	6	—	—

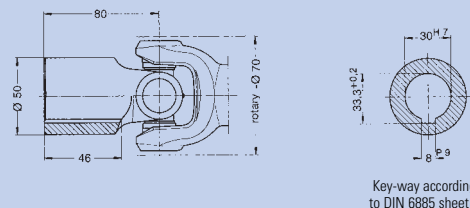


Standard flange
end number: 0.107.XX0



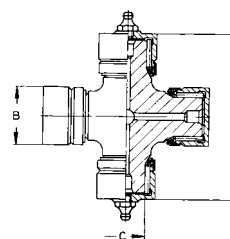
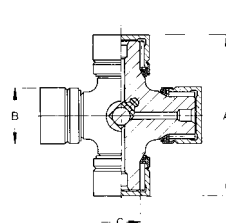
Larger flange
end number: 0.107.XX1

One keyway is not enough to transmit the max. torque. In such case a second keyway or an internal spline is recommended.



Connecting hub
without keyway end number: 0.107.XX2
with keyway end number: 0.107.XX3

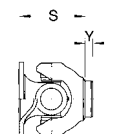
Cross Units, Needle bearing version



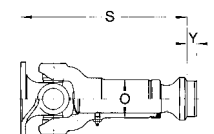
		Standard version Needle bearing		Version suitable for external lubrication Needle bearing	
Order number		0.107.010		0.107.012	
A	mm	58		58	
B	mm	22		22	
C	mm	13,35		16	
Snap rings included	mm	J 22 x 1		J 22 x 1	
Weight	kg	0,224		0,228	

β = Maximum angle of deflection per joint
X = Preferred extension (larger extension available up to approx. 9 x spline o. D.)

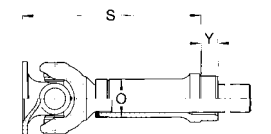
Fixed joint



Slip joint



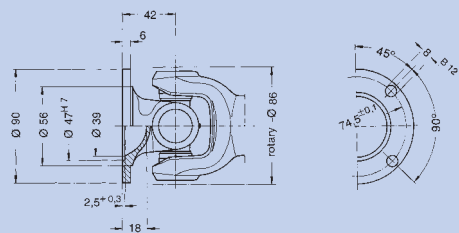
Slip joint (sliding sleeve type)



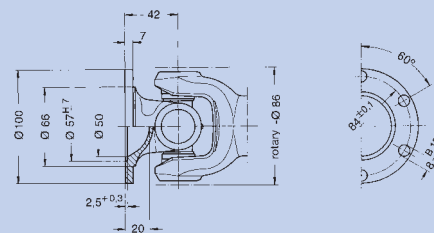
Please indicate compressed length „S“, extension and required type of flange when ordering!

		Needle bearing version											
		without extension				standard extension				larger extension			
Order number		0.107.050	0.107.051	0.107.052	—	0.107.060	0.107.061	0.107.062	—	0.107.070	0.107.071	0.107.072	—
Angle of deflection β	°	30	18	30	—	30	18	30	—	30	18	30	—
Weight	kg	0,91	1,06	1,25	—	1,63	1,78	1,97	—	1,98	2,13	2,32	—
Flange-Ø	mm	75	90	Hub	—	75	90	Hub	—	75	90	Hub	—
S	mm	82	82	126	—	187	187	231	—	197	197	241	—
X	mm	—	—	—	—	35	35	35	—	70	70	70	—
Y	mm	13	13	13	—	13	13	13	—	15	15	15	—
Z	mm	36,25	36,25	36,25	—	36,25	36,25	36,25	—	36,25	36,25	36,25	—
Spline dim. DIN 5480	mm	—	—	—	—	28x1,5x17	28x1,5x17	28x1,5x17	—	28x1,5x17	28x1,5x17	28x1,5x17	—
Number of flange holes		6	4	—	—	6	4	—	—	6	4	—	—

At utilisation of the nominal torque a verification of the flange connection is necessary.

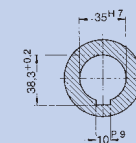
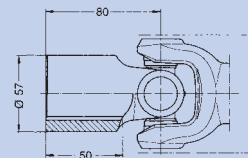


Standard flange
end number: 0.109.XX0



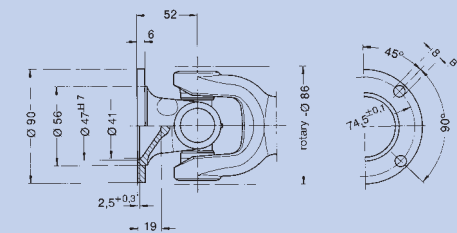
Larger flange
end number: 0.109.XX1

One keyway is not enough to transmit the max. torque. In such case a second keyway or an internal spline is recommended.



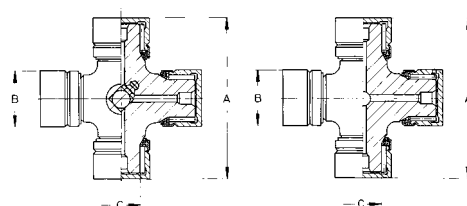
Key-way according to DIN 6885 sheet 1

Connecting hub
without key-way end number: 0.109.XX2
with key-way end number: 0.109.XX3



Flange for larger deflection
end number: 0.109.XX5

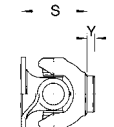
Cross Units, Needle bearing version



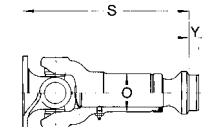
		Standard version Needle bearing	Lubrication for Version 0.100.3XX Needle bearing
Order number		0.109.010	0.109.011
A	mm	70,9	70,9
B	mm	28,5	28,5
C	mm	19,87	19,87
Snap rings included	mm	J 29 x 1,2	J 29 x 1,2
Weight	kg	0,508	0,504

β = Maximum angle of deflection per joint
X = Preferred extension (larger extension available up to approx. 9 x spline o. D.)

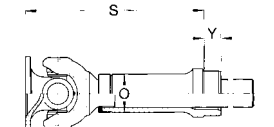
Fixed joint



Slip joint



Slip joint (sliding sleeve type)

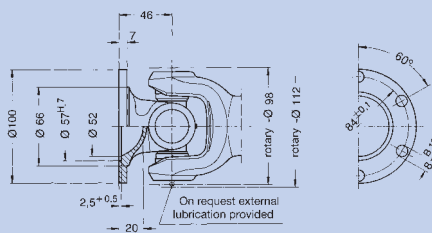


Please indicate compressed length „S“, extension and required type of flange when ordering!

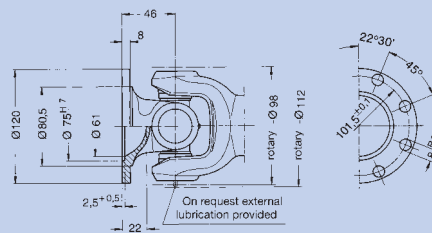
		Needle bearing version											
		without extension				standard extension				larger extension			
Order number		0.109.050	0.109.051	0.109.052	0.109.055	0.109.060	0.109.061	0.109.062	0.109.065	0.109.070	0.109.071	0.109.072	0.109.075
Angle of deflection β	°	20	18	20	35	20	18	20	35	20	18	20	35
Weight	kg	1,82	1,93	2,21	1,90	3,01	3,12	3,40	3,12	3,39	3,50	3,78	3,61
Flange-Ø	mm	90	100	Hub	90	90	100	Hub	90	90	100	Hub	90
S	mm	90	90	128	100	225	225	263	242	222	222	260	241
X	mm	—	—	—	—	40	40	40	40	80	80	80	80
Y	mm	14	14	14	14	15	15	15	15	18	18	18	18
Z	mm	46,25	46,25	46,25	46,25	46,25	46,25	46,25	46,25	46,25	46,25	46,25	46,25
Spline dim. DIN 5480	mm	—	—	—	—	32x2x14	32x2x14	32x2x14	32x2x14	32x2x14	32x2x14	32x2x14	32x2x14
Number of flange holes		4	6	—	4	4	6	—	4	4	6	—	4

At utilisation of the nominal torque a verification of the flange connection is necessary.

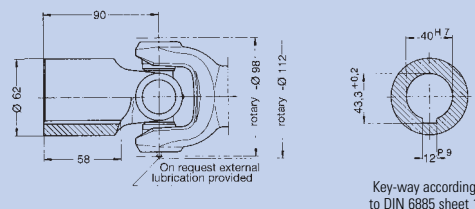
One keyway is not enough to transmit the max. torque. In such case a second keyway or an internal spline is recommended.



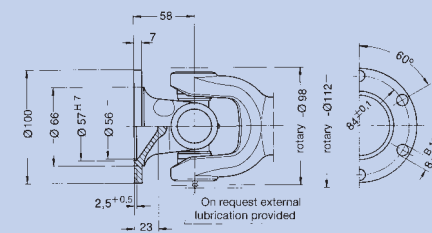
Standard flange
end number: 0.110.XX0



Larger flange
end number: 0.110.XX1

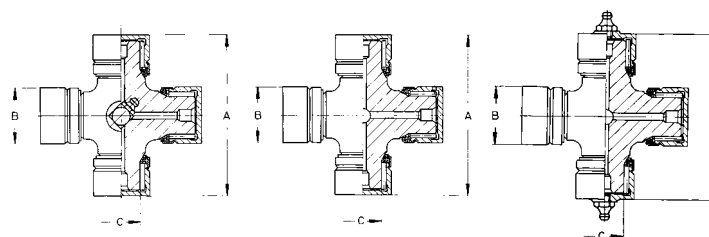


Connecting hub
without key-way end number: 0.110.XX2
with key-way end number: 0.110.XX3



Flange for larger deflection
end number: 0.110.XX5

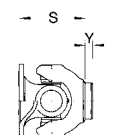
Cross Units, Roller bearing version



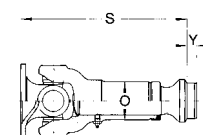
		Standard version Roller bearing		Lubrication for version 0.100.3XX Roller bearing		Version suitable for external lubrication Roller bearing	
Order number		0.110.015		0.110.017		0.110.016	
A	mm	83		83,05		83	
B	mm	30		30		30	
C	mm	20,02		20,02		20,02	
Snap rings included	mm	J 30 x 1,2		J 30 x 1,2		J 30 x 1,2	
Weight	kg	0,66		0,65		0,66	

β = Maximum angle of deflection per joint
X = Preferred extension (larger extension available up to approx. 9 x spline o. D.)

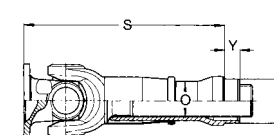
Fixed joint



Slip joint

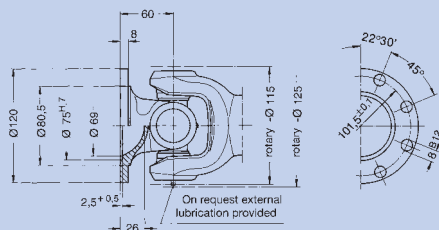


Slip joint (sliding sleeve type)



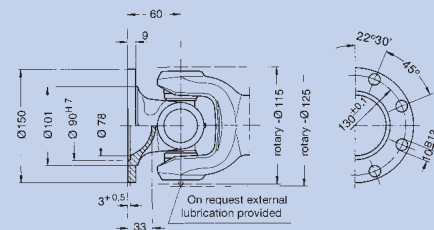
Please indicate compressed length „S“, extension and required type of flange when ordering!

		Roller bearing version											
		without extension				standard extension				larger extension			
Order number		0.110.050	0.110.051	0.110.052	0.110.055	0.110.060	0.110.061	0.110.062	0.110.065	0.110.070	0.110.071	0.110.072	0.110.075
Angle of deflection β	°	20	18	20	35	20	18	20	35	20	18	20	35
Weight	kg	2,38	2,60	2,75	2,45	3,83	4,06	4,20	4,01	4,70	4,92	5,07	4,77
Flange-Ø	mm	100	120	Hub	100	100	120	Hub	100	100	120	Hub	100
S	mm	105	105	149	117	237	237	281	256	244	244	288	256
X	mm	—	—	—	—	40	40	40	40	100	100	100	100
Y	mm	15	15	15	15	15	15	15	15	18	18	18	18
Z	mm	44,25	44,25	44,25	44,25	44,25	44,25	44,25	44,25	44,25	44,25	44,25	44,25
Spline dim. DIN 5480	mm	—	—	—	—	35x2x16	35x2x16	35x2x16	35x2x16	35x2x16	35x2x16	35x2x16	35x2x16
Number of flange holes		6	8	—	6	6	8	—	6	6	8	—	6



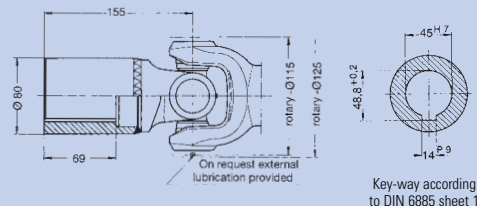
Standard flange
end number: 0.112.XX0

At utilisation of the nominal torque a verification of the flange connection is necessary.

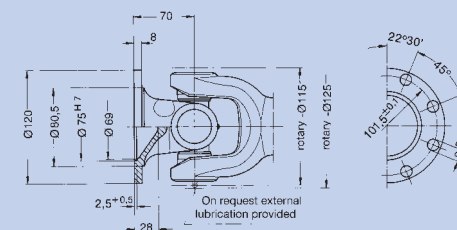


Larger flange
end number: 0.112.XX1

One keyway is not enough to transmit the max. torque. In such case a second keyway or an internal spline is recommended.

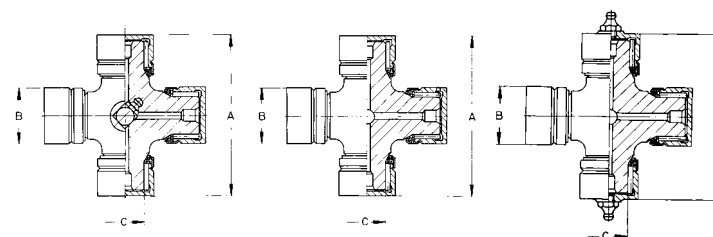


Connecting hub
without key-way end number: 0.112.XX2
with key-way end number: 0.112.XX3



Flange for larger angle of deflection
end number: 0.112.XX5

Cross Units

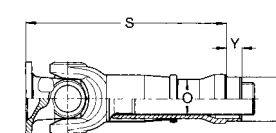
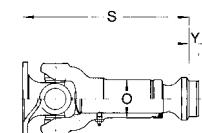
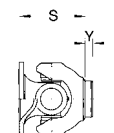


β = Maximum angle of deflection per joint
X = Preferred extension (larger extension available up to approx. 9 x spline o. D.)

Fixed joint

Slip joint

Slip joint (sliding sleeve type)



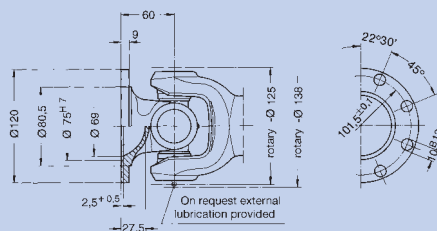
Needle bearing version					
Standard version Needle bearing		Lubrication for version 0.100.3XX Needle bearing		Version suitable for external lubrication Needle bearing	
Order number		0.112.010	0.112.011	0.112.012	
A	mm	97	97	97	
B	mm	35	35	35	
C	mm	23,04	23,04	23,04	
Snap rings included	mm	J 35 x 1,5	J 35 x 1,5	J 35 x 1,5	
Weight	kg	1,03	1,02	1,03	

Roller bearing version					
Standard version Roller bearing		Lubrication for version 0.100.3XX Roller bearing		Version suitable for external lubrication Roller bearing	
Order number		0.112.015	0.112.017	0.112.016	
A	mm	97	97	97	
B	mm	35	35	35	
C	mm	24,8	24,8	24,8	
Snap rings included	mm	J 35 x 1,5	J 35 x 1,5	J 35 x 1,5	
Weight	kg	1,06	1,05	1,06	

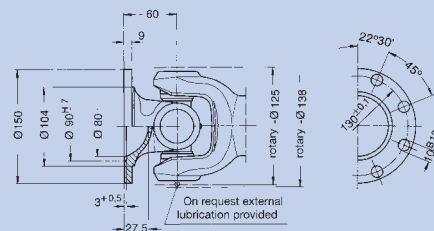
Please indicate compressed length „S“, extension and required type of flange when ordering!

Needle resp. Roller bearing version											
without extension				standard extension				larger extension			
0112.050	0112.051	0112.052	0112.055	0112.060	0112.061	0112.062	0112.065	0112.070	0112.071	0112.072	0112.075
20	18	20	35	20	18	20	35	20	18	20	35
3.80	4.48	6.09	3.93	6.63	7.31	8.92	6.73	7.26	7.94	9.55	7.94
120	150	Hub	120	120	150	Hub	120	120	150	Hub	120
125	125	220	135	306	306	401	330	308	308	403	325
—	—	—	—	60	60	60	60	120	120	120	120
20	20	20	20	20	20	20	20	20	20	20	20
52.25	52.25	52.25	52.25	52.25	52.25	52.25	52.25	52.25	52.25	52.25	52.25
—	—	—	—	42x2x20	42x2x20	42x2x20	42x2x20	42x2x20	42x2x20	42x2x20	42x2x20
8	8	—	8	8	8	—	8	8	8	—	8

At utilisation of the nominal torque a verification of the flange connection is necessary.

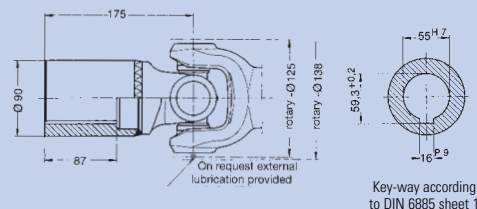


Standard flange
end number: 0.113.XX0

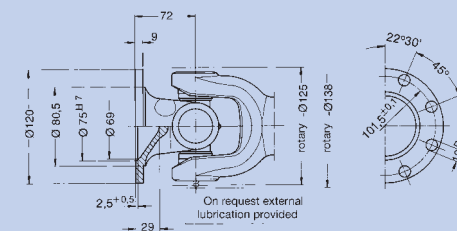


Larger flange
end number: 0.113.XX1

One keyway is not enough to transmit the max. torque. In such case a second keyway or an internal spline is recommended.

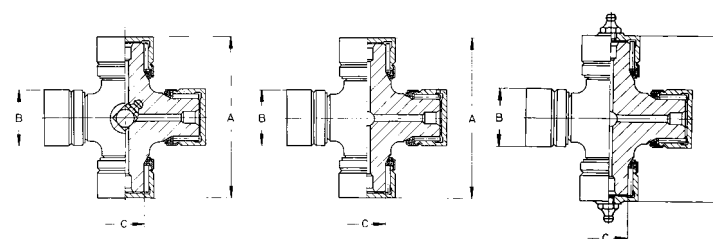


Connecting hub
without key-way end number: 0.113.XX2
with key-way end number: 0.113.XX3



Flange for larger angle of deflection
end number: 0.113.XX5

Cross Units

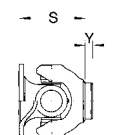


		Needle bearing version			
		Standard version Needle bearing	Lubrication for version 0.100.3XX Needle bearing	Version suitable for external lubrication Needle bearing	
Order number		0.113.010	0.113.011	0.113.012	
A	mm	106	106	106	
B	mm	38	38	38	
C	mm	26,28	26,28	26,28	
Snap rings included	mm	J 38 x 1,5	J 38 x 1,5	J 38 x 1,5	
Weight	kg	1,32	1,32	1,33	

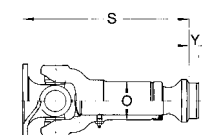
		Roller bearing version			
		Standard version Roller bearing		Version suitable for external lubrication Roller bearing	
Order number		0.113.015		0.113.016	
A	mm	106		106	
B	mm	38		38	
C	mm	25,7		25,7	
Snap rings included	mm	J 38 x 1,5		J 38 x 1,5	
Weight	kg	1,25		1,34	

β = Maximum angle of deflection per joint
X = Preferred extension (larger extension available up to approx. 9 x spline o. D.)

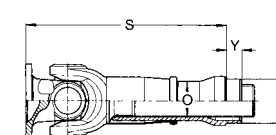
Fixed joint



Slip joint

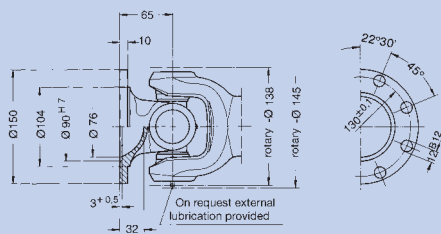


Slip joint (sliding sleeve type)

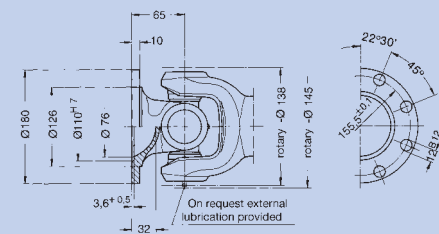


Please indicate compressed length „S“, extension and required type of flange when ordering!

		Needle resp. Roller bearing version											
		without extension				standard extension				larger extension			
Order number		0.113.050	0.113.051	0.113.052	0.113.055	0.113.060	0.113.061	0.113.062	0.113.065	0.113.070	0.113.071	0.113.072	0.113.075
Angle of deflection β	°	20	18	20	35	20	18	20	35	20	18	20	35
Weight	kg	4,52	5,20	7,63	4,85	8,85	9,53	11,96	9,40	10,24	10,92	13,35	10,57
Flange-Ø	mm	120	150	Hub	120	120	150	Hub	120	120	150	Hub	120
S	mm	128	128	243	140	318	318	433	343	320	320	435	332
X	mm	—	—	—	—	60	60	60	60	130	130	130	130
Y	mm	20	20	20	20	22	22	22	22	22	22	22	22
Z	mm	62,25	62,25	62,25	62,25	62,25	62,25	62,25	62,25	62,25	62,25	62,25	62,25
Spline dim. DIN 5480	mm	—	—	—	—	50x2x24	50x2x24	50x2x24	50x2x24	50x2x24	50x2x24	50x2x24	50x2x24
Number of flange holes		8	8	—	8	8	8	—	8	8	8	—	8

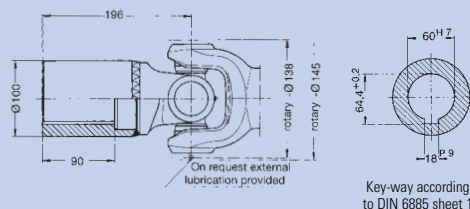


Standard flange
end number: 0.148.XX0

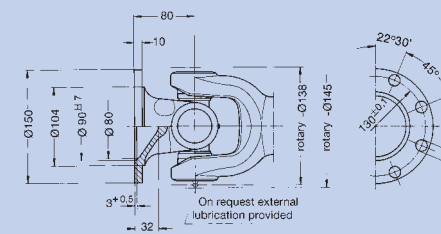


Larger flange
end number: 0.148.XX1

One keyway is not enough to transmit the max. torque. In such case a second keyway or an internal spline is recommended.

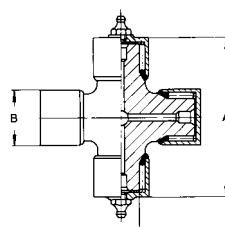
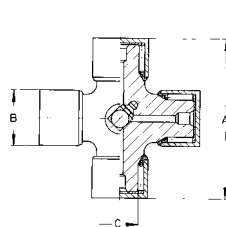


Connecting hub
without key-way end number: 0.148.XX2
with key-way end number: 0.148.XX3



Flange for larger angle of deflection
end number: 0.148.XX5

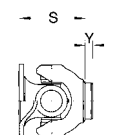
Cross Units, Roller bearing version



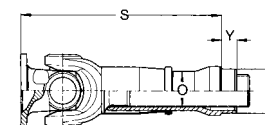
		Standard version Roller bearing		Version suitable for external lubrication Roller bearing	
Order number		0.148.015		0.148.016	
A	mm	117,5		117,5	
B	mm	42		42	
C	mm	27,8		27,8	
Snap rings included	mm	J 42 x 1,75		J 42 x 1,75	
Weight	kg	1,69		1,7	

β = Maximum angle of deflection per joint
X = Preferred extension (larger extension available up to approx. 9 x spline o. D.)

Fixed joint



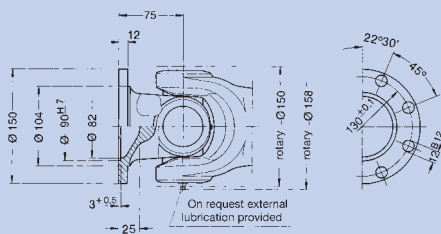
Slip joint (sliding sleeve type)



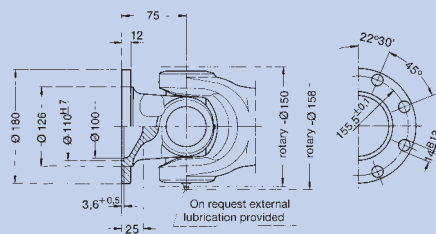
Please indicate compressed length „S“, extension and required type of flange when ordering!

		Roller bearing version							
		without extension				larger extension			
Order number		0.148.050	0.148.051	0.148.052	0.148.055	0.148.070	0.148.071	0.148.072	0.148.075
Angle of deflection β	°	20	20	35	35	20	20	20	35
Weight	kg	7,06	7,71	11,51	7,72	13,23	13,88	17,68	13,89
Flange-Ø	mm	150	180	Hub	120/150	150	180	Hub	120/150
S	mm	145	145	276	160	328	328	459	343
X	mm	—	—	—	—	110	110	110	110
Y	mm	25	25	25	25	25	25	25	25
Z	mm	72,25	72,25	72,25	72,25	72,25	72,25	72,25	72,25
Spline dim. DIN 5480	mm	—	—	—	—	55x2,5x20	55x2,5x20	55x2,5x20	55x2,5x20
Number of flange holes		8	8	—	8	8	8	—	8

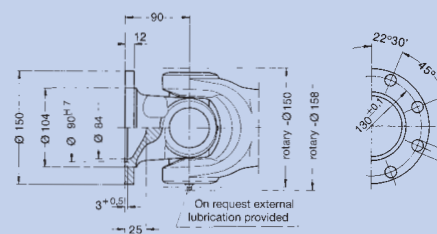
At utilisation of the nominal torque a verification of the flange connection is necessary.



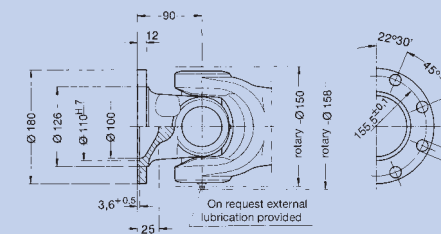
Standard flange
end number: 0.158.XX0



Larger flange
end number: 0.158.XX1



Flange for larger deflection
end number: 0.158.XX5



Larger flange for larger deflection
end number: 0.158.XX6

Cross Units, Roller bearing version

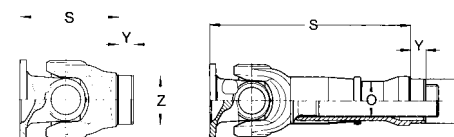


		Standard version Roller bearing		Version suitable for external lubrication Roller bearing	
Order number		0.158.015		0.158.016	
A	mm	126		126	
B	mm	48		48	
C	mm	33,15		33,15	
Snap rings included	mm	J 48 x 1,75		J 48 x 1,75	
Weight	kg	2,28		2,29	

β = Maximum angle of deflection per joint
X = Preferred extension (larger extension available up to approx. 9 x spline o. D.)

Fixed joint

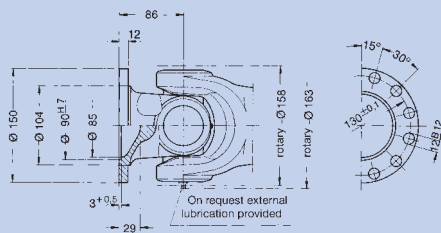
Slip joint (sliding sleeve type)



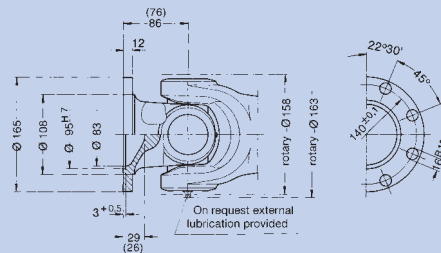
Please indicate compressed length „S“, extension and required type of flange when ordering!

	Roller bearing version							
	without extension				larger extension			
Order number	0.158.050	0.158.051	0.158.055	0.158.056	0.158.070	0.158.071	0.158.075	0.158.076
Angle of deflection β °	20	20	35	35	20	20	35	35
Weight kg	10,12	10,90	10,55	11,36	20,78	21,56	21,21	22,02
Flange-Ø mm	150	180	150	180	150	180	150	180
S mm	185	185	200	200	475	475	490	490
X mm	—	—	—	—	110	110	110	110
Y mm	22	22	22	22	25	25	25	25
Z mm	82,25	82,25	82,25	82,25	82,25	82,25	82,25	82,25
Spline dim. DIN 5480	—	—	—	—	60x2,5x22	60x2,5x22	60x2,5x22	60x2,5x22
Number of flange holes	8	8	8	8	8	8	8	8

At utilisation of the nominal torque a verification of the flange connection is necessary.

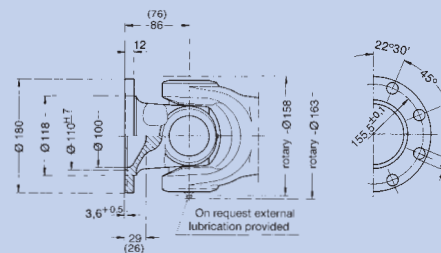


Standard flange
end number: 0.117.XX0



Larger flange (Ø 165 mm)
end number: 0.117.XX1

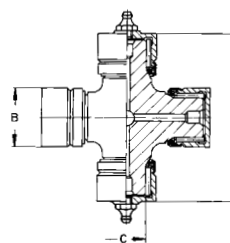
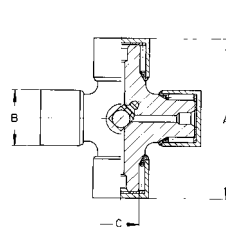
Dimensions in brackets are only valid for short type I



Larger flange (Ø 180 mm)
end number: 0.117.XX1

Dimensions in brackets are only valid for short type I

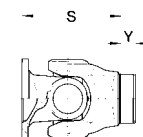
Cross Units, Roller bearing version



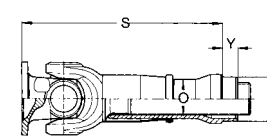
		Standard version Roller bearing		Version suitable for external lubrication Roller bearing	
Order number		0.117.015		0.117.016	
A	mm	135		135	
B	mm	53		53	
C	mm	37,34		37,34	
Snap rings included	mm	J 53 x 2		J 53 x 2	
Weight	kg	3,26		3,28	

β = Maximum angle of deflection per joint
X = Preferred extension (larger extension available up to approx. 9 x spline o. D.)

Fixed joint



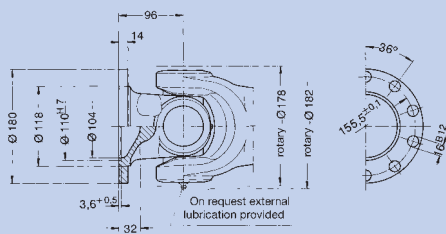
Slip joint (sliding sleeve type)



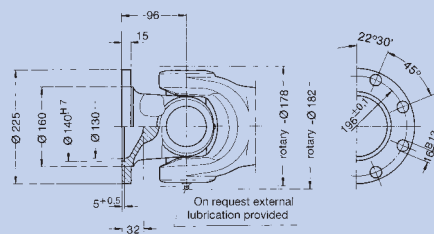
Please indicate compressed length „S“, extension and required type of flange when ordering!

	Roller bearing version							
	without extension				larger extension			
Order number	0.117.050	0.117.051	0.117.051	—	0.117.070	0.117.071	0.117.071	—
Angle of deflection β °	30	30	30	—	30	30	30	—
Weight kg	12,29	12,52	13,06	—	21,99	22,13	22,75	—
Flange-Ø mm	150	165	180	—	150	165	180	—
S mm	184	184	184	—	412/(457)	412/(457)	412/(457)	—
X mm	—	—	—	—	110	110	110	—
Y mm	28	28	28	—	30	30	30	—
Z mm	90,25	90,25	90,25	—	90,25	90,25	90,25	—
Spline dim. DIN 5480 mm	—	—	—	—	65x2,5x24	65x2,5x24	65x2,5x24	—
Number of flange holes	12	8	8	—	12	8	8	—

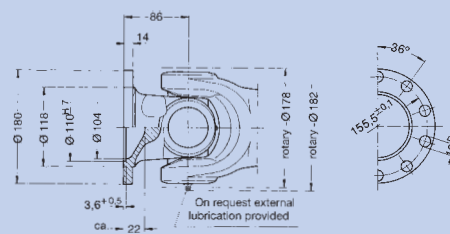
At utilisation of the nominal torque a verification of the flange connection is necessary.



Standard flange
end number: 0.120.XX0



Larger flange
end number: 0.120.XX1



Shorter flange to short type I

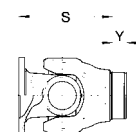
Cross Units, Roller bearing version



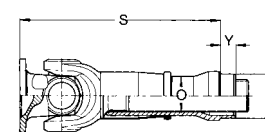
		Standard version Roller bearing		Version suitable for external lubrication Roller bearing	
Order number		0.120.015		0.120.016	
A	mm	152		152	
B	mm	57		57	
C	mm	40,9		40,9	
Snap rings included	mm	J 57 x 2		J 57 x 2	
Weight	kg	4,19		4,21	

β = Maximum angle of deflection per joint
X = Preferred extension (larger extension available up to approx. 9 x spline o. D.)

Fixed joint



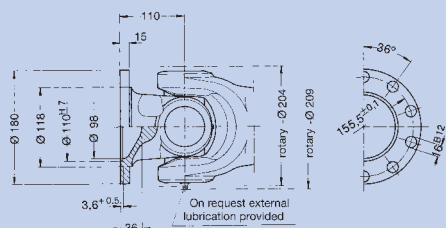
Slip joint (sliding sleeve type)



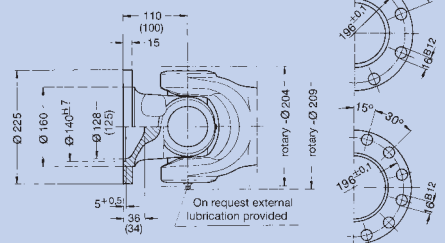
Please indicate compressed length „S“, extension and required type of flange when ordering!

		Roller bearing version							
		without extension				larger extension			
Order number		0.120.050	0.120.051	—	—	0.120.070	0.120.071	—	—
Angle of deflection β	°	30	30	—	—	30	30	—	—
Weight	kg	16,47	18,54	—	—	30,88	32,95	—	—
Flange-Ø	mm	180	225	—	—	180	225	—	—
S	mm	201	201	—	—	448/(486)	448/(486)	—	—
X	mm	—	—	—	—	110	110	—	—
Y	mm	30	30	—	—	30	30	—	—
Z	mm	98,25	98,25	—	—	98,25	98,25	—	—
Spline dim. DIN 5480	mm	—	—	—	—	75x2,5x28	75x2,5x28	—	—
Number of flange holes		10	8	—	—	10	8	—	—

At utilisation of the nominal torque a verification of the flange connection is necessary.

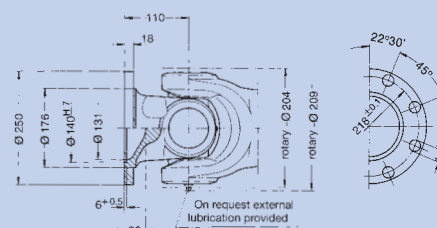


Standard flange
end number: 0.122.XX0



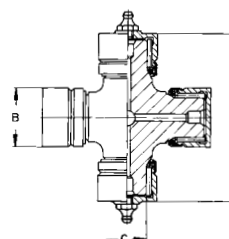
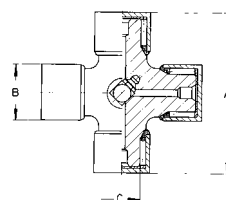
Larger flange (Ø 225 mm)
end number: 0.122.XX1

Dimensions in brackets are only valid for short type I



Larger flange (Ø 250 mm)
end number: 0.122.XX1

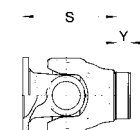
Cross Units, Roller bearing version



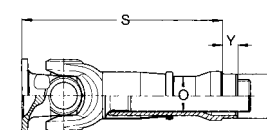
		Standard version Roller bearing		Version suitable for external lubrication Roller bearing	
Order number		0.122.015		0.122.016	
A	mm	172		172	
B	mm	65		65	
C	mm	47,7		47,7	
Snap rings included	mm	J 65 x 2,5		J 65 x 2,5	
Weight	kg	6,15		6,17	

β = Maximum angle of deflection per joint
X = Preferred extension (larger extension available up to approx. 9 x spline o. D.)

Fixed joint

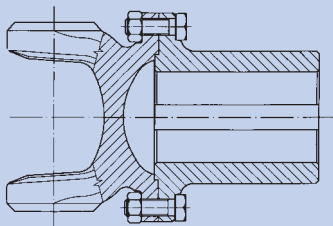


Slip joint (sliding sleeve type)



Please indicate compressed length „S“, extension and required type of flange when ordering!

		Roller bearing version							
		without extension				larger extension			
Order number		0.122.050	0.122.051	0.122.051	0.122.051	0.122.070	0.122.071	0.122.071	0.122.071
Angle of deflection β	°	30	30	30	25	30	30	30	25
Weight	kg	22,26	24,70	24,65	26,32	47,95	50,39	50,34	52,00
Flange-Ø	mm	180	225	225	250	180	225	225	250
S	mm	225	225	225	225	496	496	496	496
X	mm	—	—	—	—	140	140	140	140
Y	mm	30	30	30	30	28	28	28	28
Z	mm	108,25	108,25	108,25	108,25	108,25	108,25	108,25	108,25
Spline dim. DIN 5480	mm	—	—	—	—	90x2,5x34	90x2,5x34	90x2,5x34	90x2,5x34
Number of flange holes		10	8	12	8	10	8	12	8



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

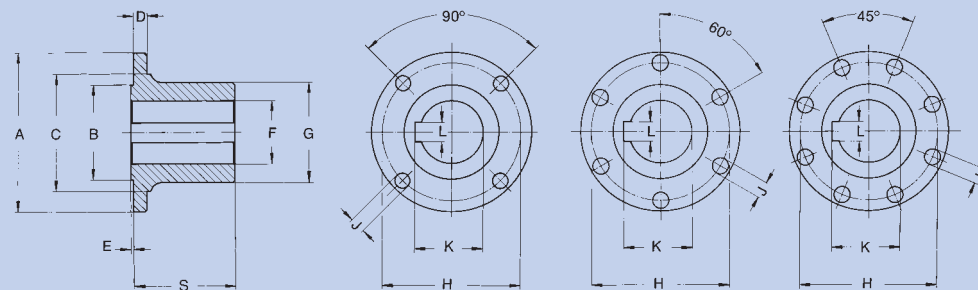
Order number	0.105.192.001	0.106.192.001	0.107.192.001	0.109.192.001	0.110.192.001	0.112.192.001	0.113.192.001	0.148.192.001	0.158.192.001	0.117.192.001
for joint size	105	105/106	106/107	107/109	109/110	110/112	112/113	148	158	117
Flange-Ø A	mm 58	65	75	90	100	120	120/150	150/180	150/180	150
Hexagon head bolts DIN EN 240 14-10.9	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	M10	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 240 14-10.9	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

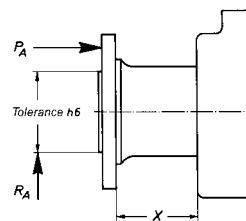
Order number	0.112.192.003	0.158.192.005	0.117.192.008
for joint size	112/113/148	158/117	117/120/122
Flange-Ø A	mm 120	150	180
Hexagon head bolts DIN EN 240 14-10.9	mm M10 x 40	M12 x 40	M14 x 45
Number per Kit	8	8	8
Hexagon head bolts DIN EN ISO 7042-10	mm M10	M12	M14
Number per Kit	8	8	8
Tightening torque	Nm 46	79	125

One keyway is not enough to transmit the max. torque. In such case a second keyway or an internal spline is recommended.



Companion Flanges

Order number	1.105.240	1.106.240	1.107.240	1.109.240	1.110.240	1.112.240	1.113.240	1.148.240	1.158.240	1.117.240	1.120.240	1.122.240
for joint size	0.105	0.106/0.105	0.107/0.106	0.109/0.107	0.110/0.109	0.112/0.110	0.113	0.148	0.158	0.117	0.120	0.122
A	mm 58	65	75	90	100	120	120	150	150	180	225	250
B ₁₆	mm 30	35	42	47	57	75	75	90	90	110	140	140
C _{0.2}	mm 38,8	41,8	51,8	61,2	70,7	88,2	84,1	110,6	110,6	131	171,5	190
D	mm 4	5	6	8	8	9	10	10	12	14	15	18
E _{0.2}	mm 1,4	1,6	1,9	2,3	2,3	2,3	2,3	2,8	2,8	2,8	4,5	5,5
F ^{H7}	mm 20	25	30	35	40	45	55	60	65	80	110	110
G	mm 32	40	45	52	60	80	80	95	95	118	165	188
H _{±0.1}	mm 47	52	62	74,5	84	101,5	101,5	130	130	155,5	196	218
J ^{B12}	mm 5	6	6	8	8	10	10	12	12	16	16	18
K	mm 22,8	28,3	33,3	38,3	43,3	48,8	59,3	64,4	69,4	85,4	116,4	116,4
L ^{P9}	mm 6	8	8	10	12	14	16	18	18	22	28	28
S	mm 30	40	48	55	62	70	85	100	115	125	170	280
Number of flange holes	4	4	6	4	6	8	8	8	8	8	8	8

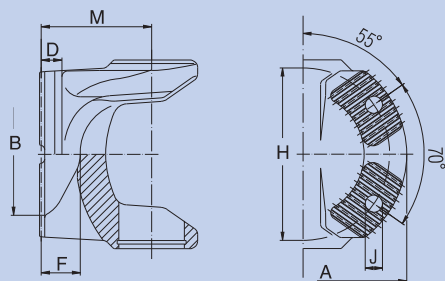


When companion flanges are produced in-house, the following should be observed:

1. Flange surface finish should not exceed 25 µm.
2. The configuration of the companion flanges must be such, that distance „X“ is at least as long as the bolt, included the head.
3. To operate in a trouble-free manner, there must be a good concentricity between the companion flanges and Universal Joint flanges. On high speed shafts face P_A run out and concentricity deviation R_A should not exceed 0,04 mm.

Md_{Nom} 3350–26750 Nm

Md_{Lim} 4350–35000 Nm



β = Maximum angle of deflection per joint
Cross serration according DIN ISO 8667

Flanges, Cross-serrated

Order number		1.112.302	1.113.302	1.148.302	1.158.302	1.117.302	1.117.302	1.120.302	1.122.302
Md_{Nom}	Nm	3350	4100	5500	8200	10000	10000	16850	26750
Angle of deflection β	°	20	20	30	20	30	30	30	30
A approx.	mm	122	120	120	150	150	180	180	180
B	mm	72	72	72	92	93	106	106	106
$D_{\pm 1}$	mm	13	13	13	15,5	15,5	18	18	19
F approx.	mm	26	37	24	28	33	33	34	34
$H_{\pm 0.1}$	mm	100	100	100	130	130	150	150	150
J	mm	11	11	11	13	13	15	15	15
M	mm	60	70	70	75	90	90	96	100
Weight	kg	1,83	2,10	2,37	3,36	4,40	5,32	6,36	7,36