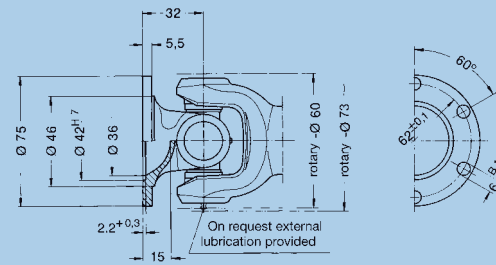
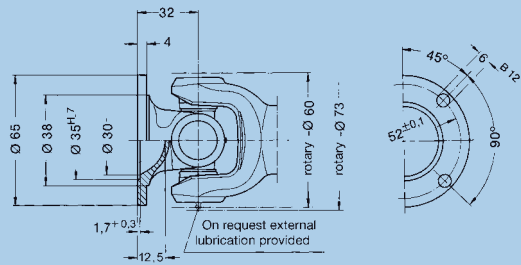


Needle bearing version

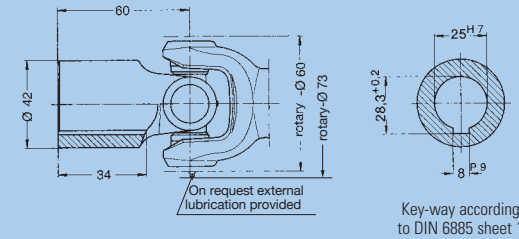
At utilisation of the nominal torque a verification of the flange connection is necessary.

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



On both sides standard flange end number: 0.106.XX0

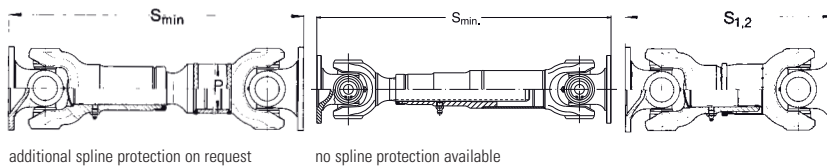
On both sides larger flange end number: 0.106.XX1



On both sides connecting hub without key-way end number: 0.106.XX2 with key-way end number: 0.106.XX3

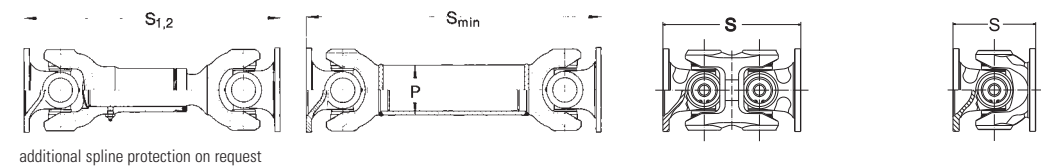
- β\* = Maximum angle of deflection per joint
- J<sub>m</sub> = Moment of inertia
- G = Weight
- S<sub>min</sub> = Minimum length of tubular types
- S<sub>1</sub> = Compressed lengths
- S<sub>2</sub> = of short types
- X<sub>1</sub> = Extension at S<sub>min</sub> resp. S<sub>1</sub>
- X<sub>2</sub> = Extension at S<sub>2</sub>
- P<sub>1</sub> = Tube diameter. Dimensions in bold type for normal applications. Alternative dimensions are for long shafts at high speeds, see technical annex domain speed
- P<sub>2</sub> = Alternative tube
- P<sub>3</sub> = Alternative tube

Universal Cardan Drive-Shafts with extension



Cardan Drive-Shafts without extension

Universal Joints without extension



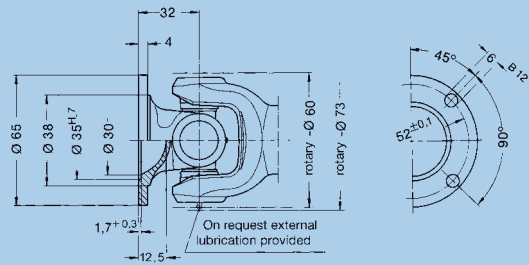
Please indicate requested length „S“ and max. r.p.m. when ordering!

Order number	Tubular Type normal extension				Tubular Type larger extension				Short Type I		
	0.106.100	0.106.101	0.106.102	-	0.106.110	0.106.111	0.106.112	-	0.106.130	0.106.131	0.106.132
Angle of deflection β*	30	20	30	-	30	20	30	-	30	20	30
Flange-Ø	65	75	Hub	-	65	75	Hub	-	65	75	Hub
S <sub>min</sub> resp. S <sub>1</sub>	260	260	315	-	290	290	345	-	180	180	236
S <sub>2</sub>	-	-	-	-	-	-	-	-	200	200	256
X resp. X <sub>1</sub>	30	30	30	-	60	60	60	-	20	20	20
X <sub>2</sub>	-	-	-	-	-	-	-	-	30	30	30
P <sub>1</sub>	<b>32 x 1,5</b>	<b>32 x 1,5</b>	<b>32 x 1,5</b>	-	<b>32 x 1,5</b>	<b>32 x 1,5</b>	<b>32 x 1,5</b>	-	-	-	-
P <sub>2</sub>	50 x 2	50 x 2	50 x 2	-	50 x 2	50 x 2	50 x 2	-	-	-	-
P <sub>3</sub>	70 x 3	70 x 3	70 x 3	-	70 x 3	70 x 3	70 x 3	-	-	-	-
Spline dim. DIN 5480	25x1,5x15	25x1,5x15	25x1,5x15	-	25x1,5x15	25x1,5x15	25x1,5x15	-	25x1,5x15	25x1,5x15	25x1,5x15
Number of flange holes	4	6	-	-	4	6	-	-	4	6	-
J <sub>m</sub> (at S <sub>min</sub> resp. S <sub>1</sub> )	0,000415	0,000587	0,000448	-	0,00044	0,000612	0,00047	-	0,00039	0,00056	0,00042
J <sub>m</sub> (at S <sub>2</sub> )	-	-	-	-	-	-	-	-	0,00042	0,00059	0,00045
J <sub>m</sub> /100 mm standard tube	0,000026	0,000026	0,000026	-	0,000026	0,000026	0,000026	-	-	-	-
G (at S <sub>min</sub> resp. S <sub>1</sub> )	1,77	1,95	2,02	-	1,87	2,04	2,11	-	1,39	1,56	1,64
G (at S <sub>2</sub> )	-	-	-	-	-	-	-	-	1,54	1,71	1,78
G/100 mm standard tube	0,11	0,11	0,11	-	0,11	0,11	0,11	-	-	-	-

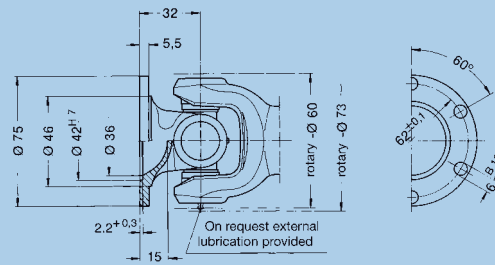
\* Please refer to point 6.7 of the technical attachment

Short Type II				Tubular Type				Universal Joint Double			Universal Joint Single			
0.106.140	0.106.141	0.106.142	-	0.106.200	0.106.201	0.106.202	-	0.106.300	0.106.301	0.106.302	0.106.400	0.106.401	0.106.402	-
30	20	30	-	30	20	30	-	30	20	30	30	20	30	-
65	75	Hub	-	65	75	Hub	-	65	75	Hub	65	75	Hub	-
220	220	276	-	165	165	220	-	120	120	176	64	64	120	-
235	235	291	-	-	-	-	-	-	-	-	-	-	-	-
30	30	30	-	-	-	-	-	-	-	-	-	-	-	-
30	30	30	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	<b>32 x 1,5</b>	<b>32 x 1,5</b>	<b>32 x 1,5</b>	-	-	-	-	-	-	-	-
-	-	-	-	50 x 2	50 x 2	50 x 2	-	-	-	-	-	-	-	-
-	-	-	-	70 x 3	70 x 3	70 x 3	-	-	-	-	-	-	-	-
25x1,5x15	25x1,5x15	25x1,5x15	-	-	-	-	-	-	-	-	-	-	-	-
4	6	-	-	4	6	-	-	4	6	-	4	6	-	-
0,00043	0,00060	0,00046	-	0,000336	0,00051	0,00036	-	0,00028	0,00045	0,00031	0,00015	0,00032	0,00018	-
0,00045	0,00062	0,00048	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	0,000026	0,000026	0,000026	-	-	-	-	-	-	-	-
1,58	1,75	1,83	-	1,16	1,34	1,41	-	0,99	1,16	1,24	0,56	0,73	0,80	-
1,63	1,80	1,87	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	0,11	0,11	0,11	-	-	-	-	-	-	-	-

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

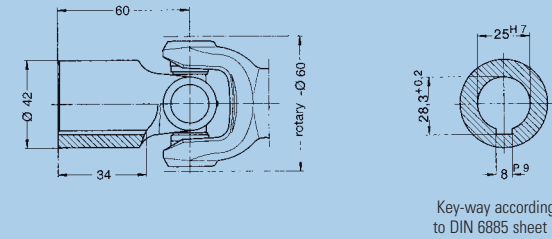


Standard flange  
end number: 0.106.XX0



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 key-way end number: 0.106.XX2  
with key-way end number: 0.106.XX3

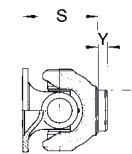
Cross Units, Needle bearing version



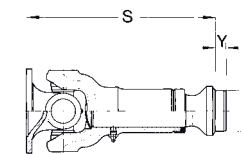
	Standard version Needle bearing	Version suitable for external lubrication Needle bearing
<b>Order number</b>	<b>0.106.010</b>	<b>0.106.012</b>
A	mm 48	mm 48
B	mm 19	mm 19
C	mm 12,7	mm 12,7
Snap rings included	mm J 19 x 1	mm J 19 x 1
Weight	kg 0,14	kg 0,144

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

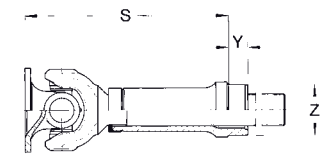
Fixed joint



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			
<b>Order number</b>	<b>0.106.050</b>	<b>0.106.051</b>	<b>0.106.052</b>	–	<b>0.106.060</b>	<b>0.106.061</b>	<b>0.106.062</b>	–	<b>0.106.070</b>	<b>0.106.071</b>	<b>0.106.072</b>	–
Angle of deflection β*	30	20	30	–	30	20	30	–	30	20	30	–
Weight	0,56	0,65	1,30	–	1,18	1,27	1,30	–	1,25	1,34	1,37	–
Flange-Ø	65	75	Hub	–	65	75	Hub	–	65	75	Hub	–
S	64	64	92	–	167	167	195	–	177	177	205	–
X	–	–	–	–	30	30	30	–	60	60	60	–
Y	13	13	13	–	13	13	13	–	9	9	9	–
Z	29,25	29,25	29,25	–	29,25	29,25	29,25	–	29,25	29,25	29,25	–
Spline dim. DIN 5480	–	–	–	–	25x1,5x15	25x1,5x15	25x1,5x15	–	25x1,5x15	25x1,5x15	25x1,5x15	–
Number of flange holes	4	6	–	–	4	6	–	–	4	6	–	–

\* Please refer to point 6.7 of the technical attachment.

The dimensions Z, Y and S will be changed within a product change. Please contact us for further questions.