STEERING COLUMNS TYPE KK...



The M+S Hydraulic KK Steering Columns transfer the torque from the steering wheel of the vehicle to the HKU, HKUS or other steering units of the same class. The KK steering columns consist of a pipe in which the control shaft is centred.

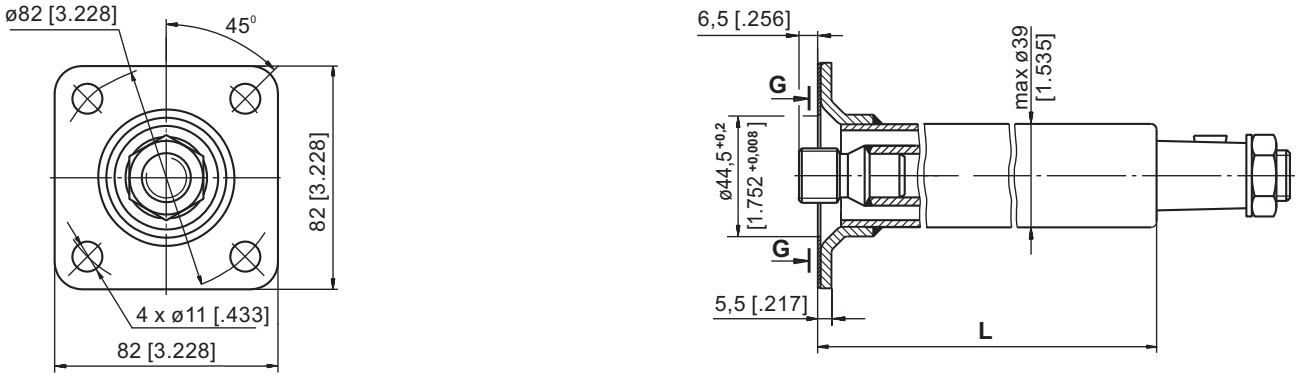
Permissible loads of the steering column are as follows:

Max. torque applied to the steering wheel	24 daNm	[2124 lb-in]
Max. bending moment	20 daNm	[1770 lb-in]
Max. axial load	100 daN	[225 lbs]

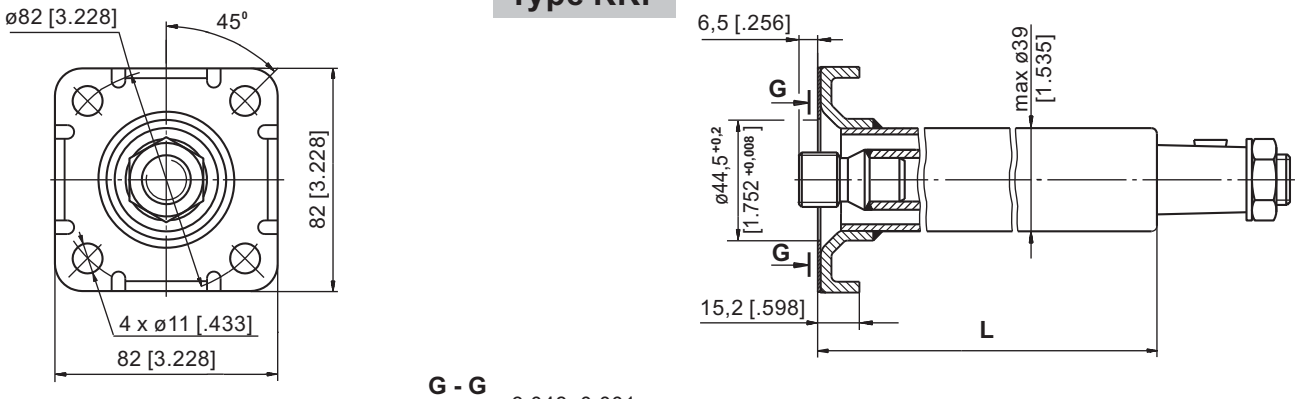
The steering column must be additionally supported when the length L exceeds 150 mm [5.91 in].

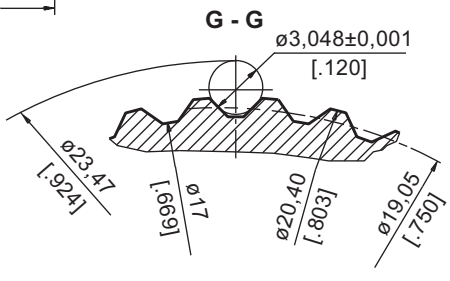
DIMENSIONS AND MOUNTING DATA

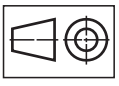
Type KK



Type KKF







mm [in]

SPECIFICATION DATA

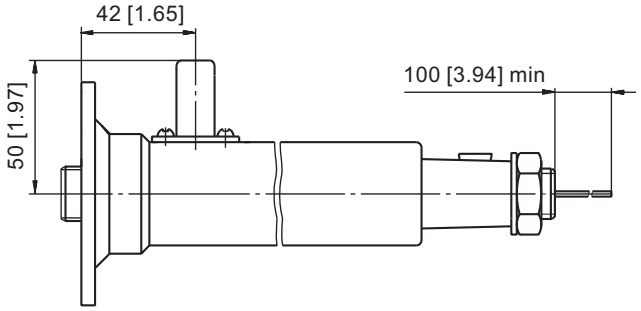
Involute Spline Data		
Modul	m	1.5875
Number of Teeth	z	12
Pressure Angle	α	30°
Diametral Pitch	DP	16/32

Parameters		Type				
		KK 75	KK 150	KK 390	KK 441	KK 750
L	mm [in]	78 [3.07]	168,2 [6.62]	393 [15.47]	441 [17.36]	777,8 [30.62]
Weight	kg [lb]	0,75 [1.65]	1,1 [2.43]	1,9 [4.19]	5,05 [11.13]	3,3 [7.28]

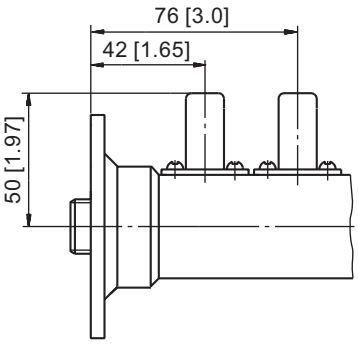
Note: The length L depends on the transport vehicle construction.
For more information regarding other lengths and shaft versions, please refer to M+S Hydraulic.

SOUND SIGNAL CONNECTION

E Option



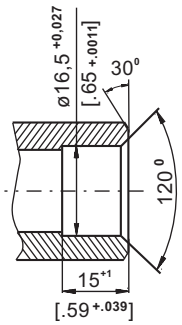
EE Option

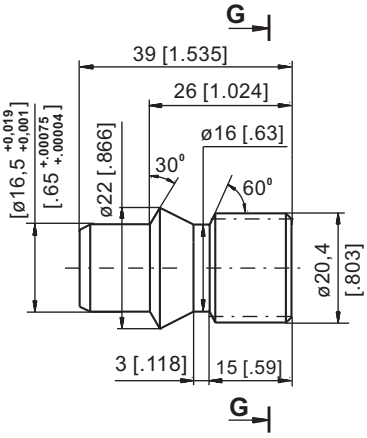


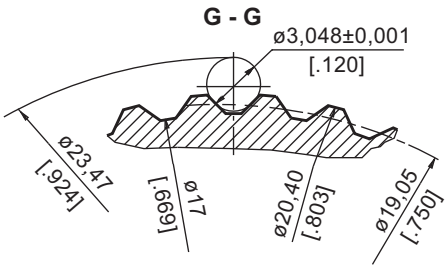
Shaft End Part

Order No: 46415 001 00

Involute Spline Data		
Modul	m	1.5875
Number of Teeth	z	12
Pressure Angle	α	30°
Diametral Pitch	DP	16/32

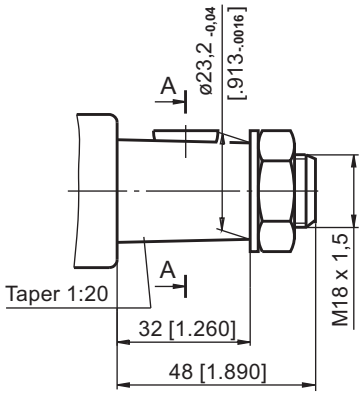


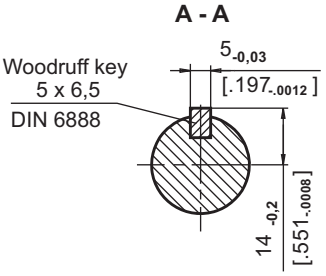


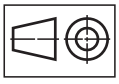


SHAFT VERSIONS

TYPE I

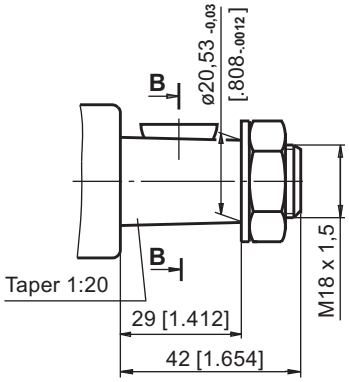


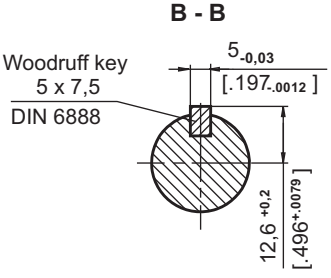




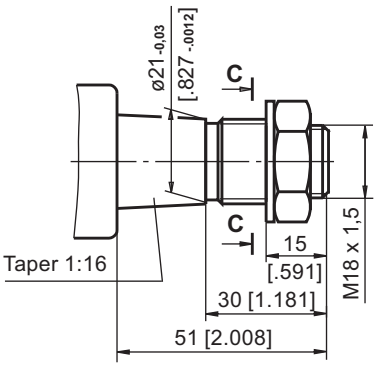
mm [in]

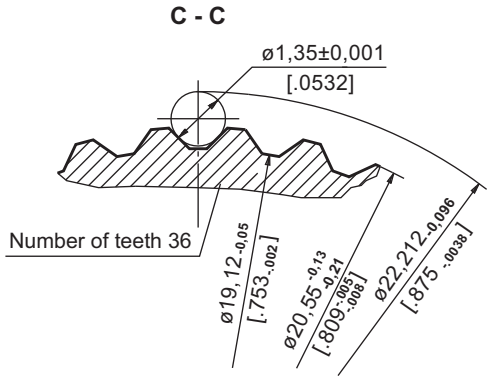
TYPE II



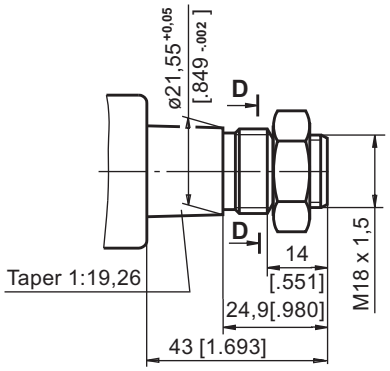


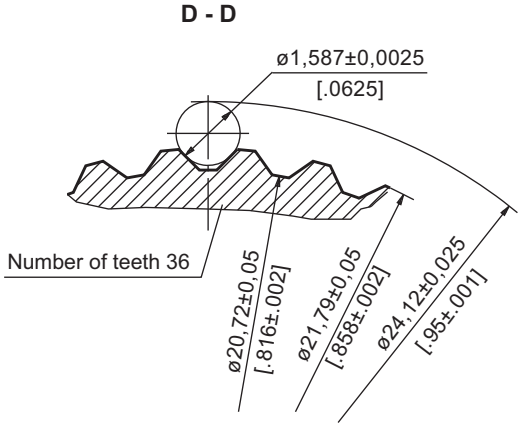
TYPE III



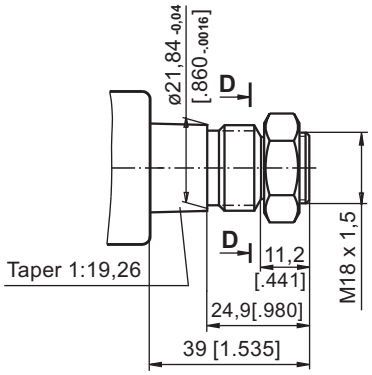


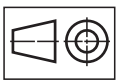
TYPE IV





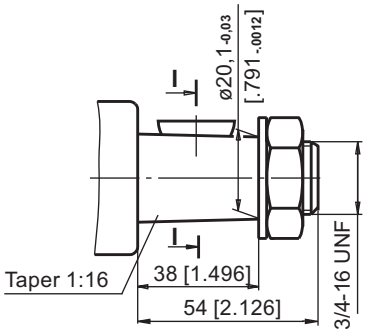
TYPE V

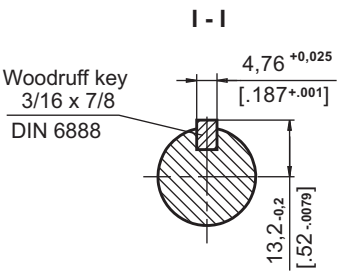




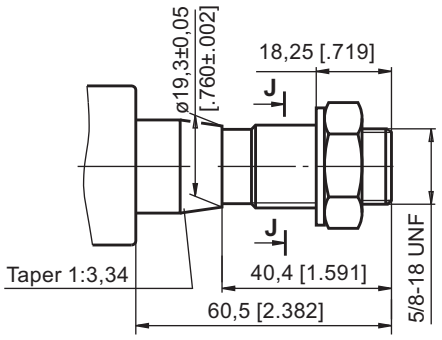
mm [in]

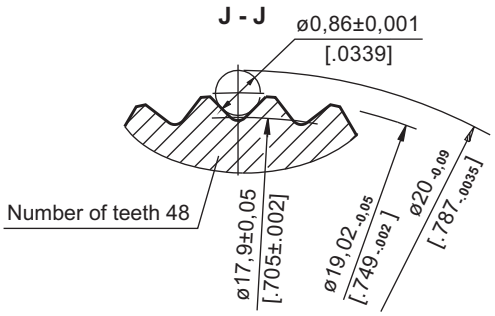
TYPE VI



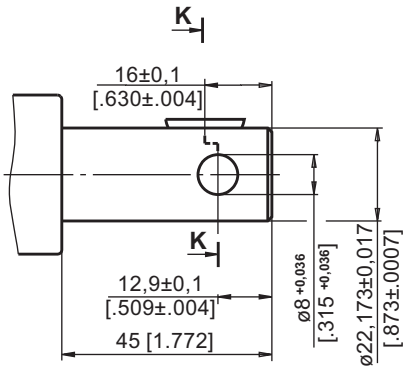


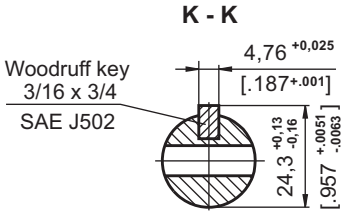
TYPE VII



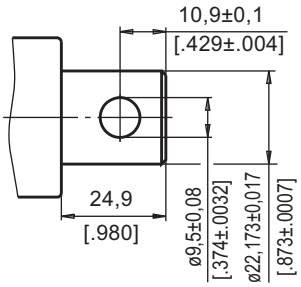


TYPE VIII

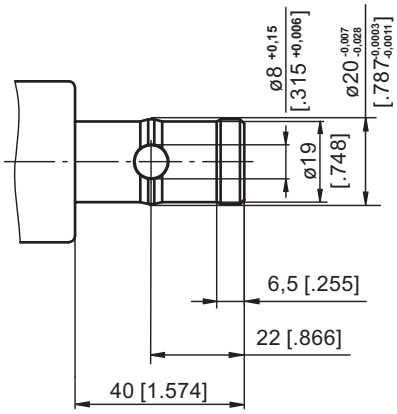


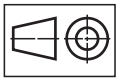


TYPE IX



TYPE XIII





mm [in]

ORDER CODE KK

	1	2	3	4	5	6
K K						

Pos.1 - **Mounting Flange**

omit - Flange without Tabs
F - Flange with Tabs

Pos.2 - **Length, mm** (acc. to table)

Pos.3 - **Shaft Extensions**

I, II, III, IV, V, VI, VII, VIII, IX, XIII

Pos.4 - **Signal Connection** (Option)

omit - without electric signal connection
E - with one electric signal connection
EE* - with two electric signal connection

Pos.5 - **Option (Paint)****

omit - No Paint
P - Painted
PC - Corrosion Protected Paint

Pos.6 - **Design Series**

omit - Factory specified

Notes: * For steering column's length L>150 mm [5.9 in] only.
** Colour at customer's request.

The steering columns are yelow galvanized as standard.

ORDER CODE KKM

	1	2	3	4
K K M				

Pos.1 - **Length, mm [in]** (acc. to table)

Pos.2 - **Shaft Extensions**

S1, S2, S3

Pos.3 - **Option (Paint)***

omit - No Paint
P - Painted
PC - Corrosion Protected Paint

Pos.4 - **Design Series**

omit - Factory specified

Notes: * Colour at customer's request.

The steering columns are yelow galvanized as standard.
The main technical features correspond to the standard steering columns type KK.