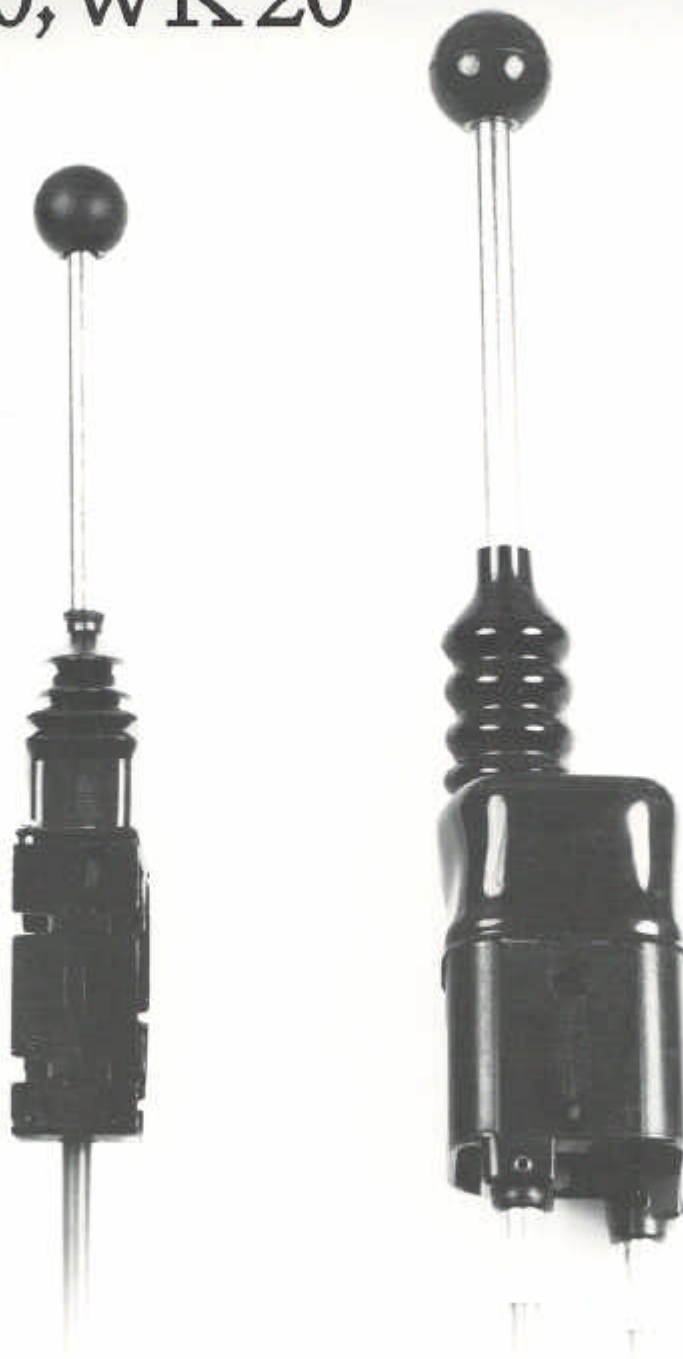


Cable control WK 10, WK 20



5 103-0

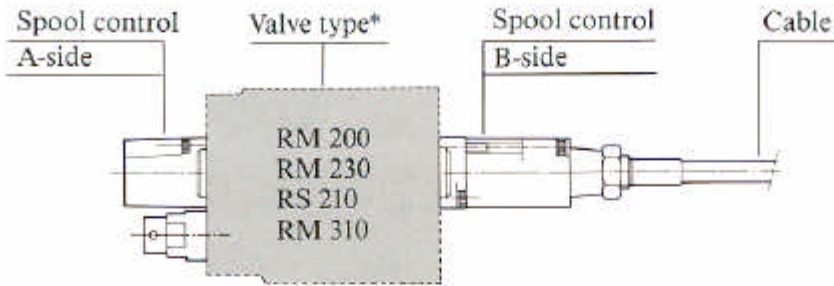


Cable control WK 10 is a single axis and WK 20 a dual axis (joystick) control unit. They have been designed to suit our directional control valves RM 200, RM 230, RS 210 and RM 310. The short spool travel and low operation forces of these valves are of the utmost importance for »easy to handle« spool control. Short spool movement gives a high ratio to the

control lever stroke, even at moderate lever length; in combination with low forces transmitted by the cable, all the requirements of low lever forces are met.

Add to this a well designed cable with low friction and high efficiency and you will find that the WK 10 and WK 20 can be used for even the most demanding of duties.

Spool controls



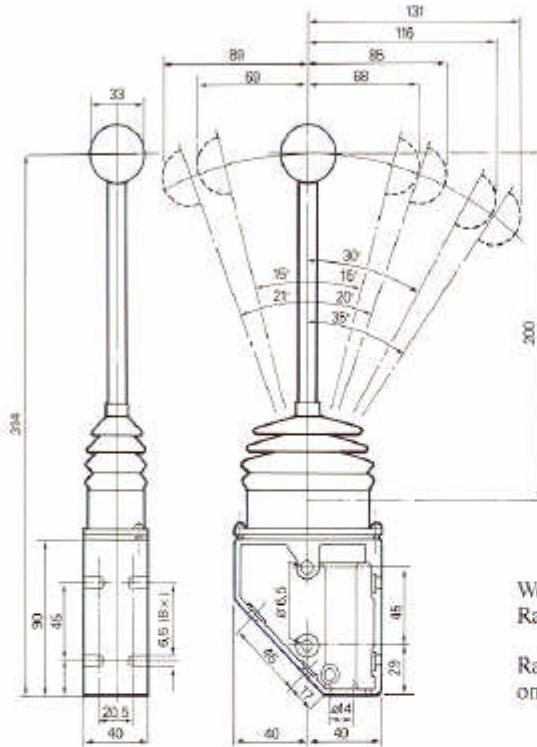
Symbol	Type	Spool control A-side	Spool control B-side	Type	*Refers to valves type RM 200, RM 230, RS 210
 Spring centered.	9			3 W	Spool control type 3W to be combined with any of the A-side spool controls type 9, 10, 13 and 14.
 Detent in positions 1, 2 and 3.	10			4 W	Spool control type 4W to be combined with any of the A-side spool controls type 11, 12 and 15.
 Spring centered. Detent in position 4.	11		Spool control B-side	Type	*Refers to valve type RM 310
 Spring centered. Detent in positions 3 and 4.	12			3 W	Spool control type 3W to be combined with any of the A-side spool controls type 9, 10, 13 and 14.
 Spring centered. Detent in position 2.	13			4 W	Spool control type 4W to be combined with any of the A-side spool controls type 11, 12 and 15.
 Spring centered. Detent in position 3.	14			**	
 Spring centered. Detent in positions 2 and 4.	15			4 W	

- 1) See further data sheet for the valve in question.
- 2) Spool controls 3 W and 4 W fitted to the A-side of the valve available on request.

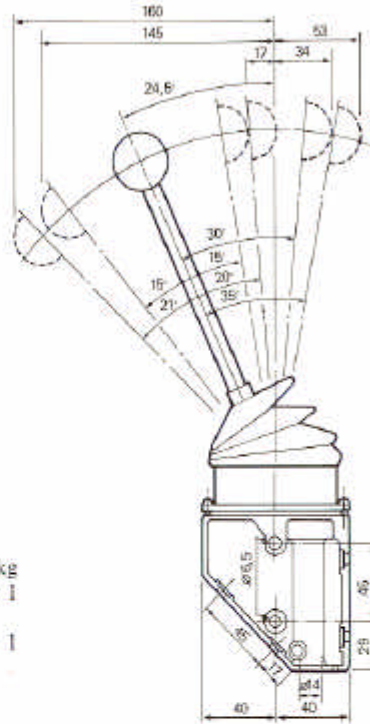
**To be operated by the Controller type WK 10 only.

Technical Data

Controller WK 10 Single axis



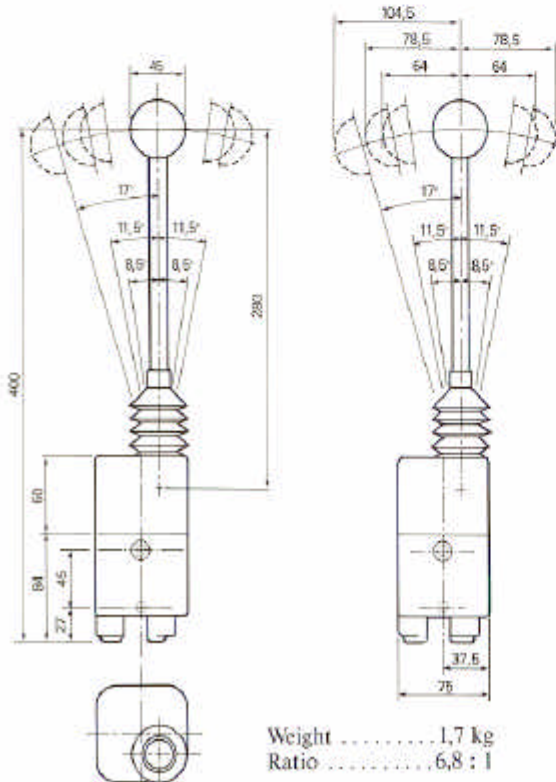
Hand lever with inclined centre position



Weight 0,85 kg
Ratio 8,5 : 1

Ratio 7,5 : 1
on request

Controller WK 20 Dual axis



Weight 1,7 kg
Ratio 6,8 : 1

Controller type WK 10								
Valve type	Cable movement mm				Degree of hand lever deflection*			
	←	0	→	*	←	0	→	
RM 200	6	0	6	12	15	0	15	30
RM 230	6	0	6	12	15	0	15	30
RS 210	6	0	6	11,5	15	0	15	28
RM 310	8	0	8	—	21	0	20	—
RM 310	7	0	7	7	18	0	18	35

*Float position

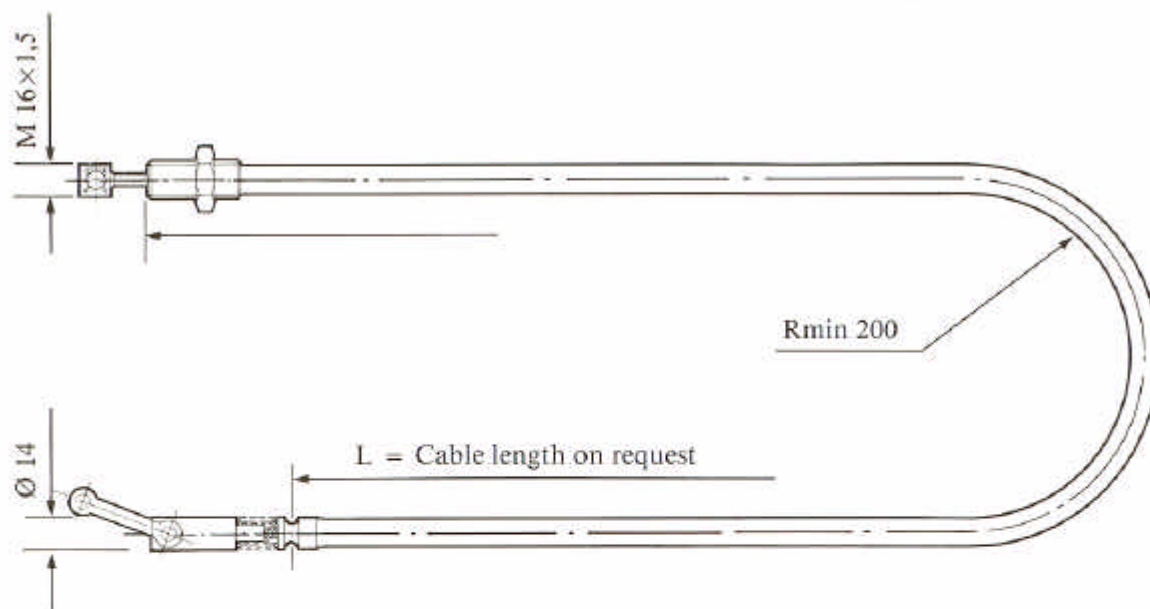
Controller type WK 20								
Valve type	Cable movement mm				Degree of hand lever deflection*			
	←	0	→	*	←	0	→	
RM 200	6	0	6	12	8,5	0	8,5	17
RM 230	6	0	6	12	8,5	0	8,5	17
RS 210	6	0	6	11,5	8,5	0	8,5	17
RM 310	8	0	8	—	11,5	0	11,5	—

*Float position

All dimensions in mm.
Type R. thread = B.S.P. thread.
SAE port threads available on request.

Technical Data

Wire type WL



Efficiency:

The efficiency of the cable is primarily determined by the sum of the number of bends in degrees as per formula:

Input force = Output force × bend factor.

Σ degrees of cable bends	90°	180°	270°	360°	450°
Bend factor	1,2	1,4	1,6	1,8	2,0

Make sure the cable has as few bends as possible when installed.
Bending radius must not be less than 200 mm.

How to order:

- WK 10/2:** Cable controls, two sections, single axis.
- WL 2500:** Cable length 2500 mm.
- 3W/RM 200:** Spool control 3W B-side. Type of valve to be specified.

Backlash:

The backlash or dead band is the difference between input and output movement of the cable core. The backlash arises when the cable is bent and is caused by the clearance between the liner and the core. The maximum backlash for 360 degrees is 3,8 mm.

Temperature range -40° C — +95° C.

Weight:

Cable complete L = 1 m 0,33 kg
Add for each m of cable 0,18 kg

