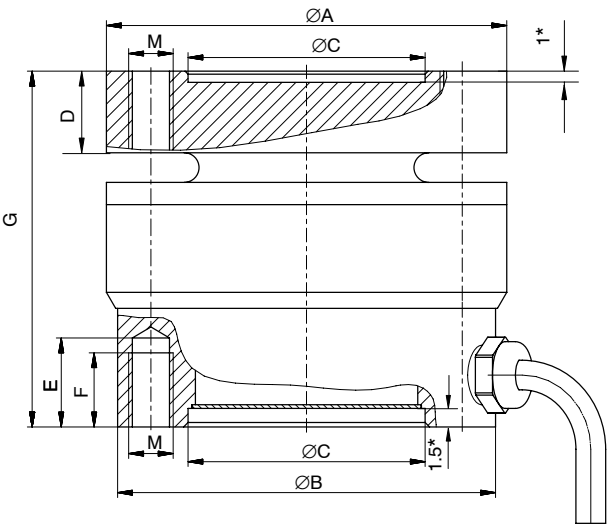
Data sheet

U93

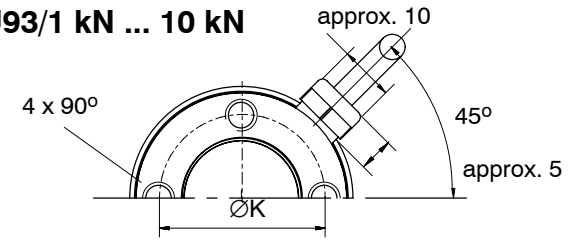
Force Transducer

Special features

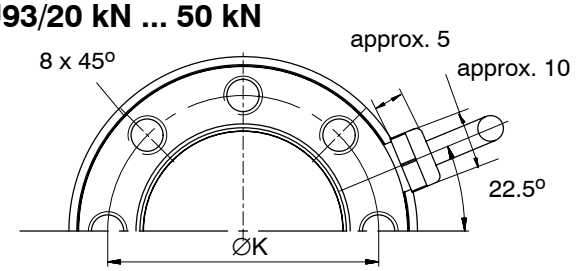
- **Tensile/compressive force transducer**
- **Simple installation thanks to flange connection on both sides**
- **Integrated TEDS electronic data sheet**
- **Compact**
- **Robust**
- **Stainless steel transducer**
- **Suitable for cable drag chains**



U93/1 kN ... 10 kN



U93/20 kN ... 50 kN



All dimensions in mm

Nominal (rated) force	ØA	ØB	ØC^{H8}	D	E	F	G	ØK$^{\pm 0.1}$	M
U93/1 kN ...10 kN	35	33	18	6.2	9	7	30.5	26	M5
U93/20 kN ...50 kN	54	51	32	11	12	10	48	42	M6

* admissible centering depth

Specifications (data per VDI/VDE 2638 standards)

Type			**U93**					
Data as per VDI 2638								
Nominal (rated) force	**F_{nom}**	**kN**	**1**	**2**	**5**	**10**	**20**	**50**
Nominal (rated) sensitivity	C_{nom}	mV/V	0.5	1	0.5	1	0.5	1
Relative sensitivity error (compression)	d_c	%	< ± 0.5					
Relative zero signal error	$d_{s,o}$	mV/V	< ± 0.075					
Rel. reversibility error (0.5 F_{nom})	$v_{0.5}$	%	< ± 0.5					
Relative linearity error	d_{lin}	%	< ± 0.5					
Effect of temperature on sensitivity/ 10 K, related to nominal (rated) sensitivity	TK_C	%	< ± 0.5					
Effect of temperature on zero signal/ 10 K, related to nominal (rated) sensitivity	TK_0	%	< ± 0.8	< ± 0.5	< ± 0.8	< ± 0.5	< ± 0.8	< ± 0.5<