

Weighdisc WDI 25 ... 200 t - 0.07



NEW:

■ Improved Combined Error: 0.07 %

Further Features:

- Load transducer for direct fitting
- No bearing elements required
- Transmission of high interferential forces
- High load application and output area
- Minimal installation space required
- Service temperature up to 125°C

Application

- Ladle turret scales
- Ladle ferries
- Scrap bucket, roller table, weighing and tundish scales
- Train scales
- Silo-, hopper and furnace scales

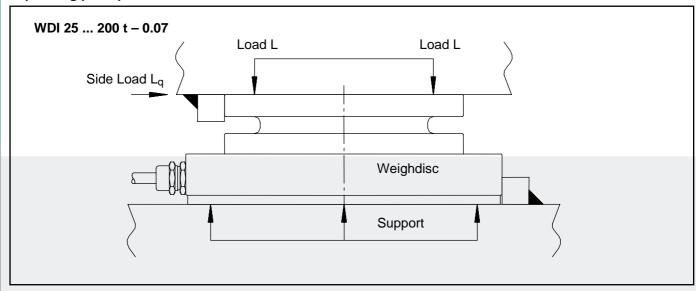
Construction

- Rotationally symmetrical design
- Two fastening flanges
- Rugged measuring body without diaphragm
- Very low headroom and installation space
- Optional: Connection of cable and Weighdisc through a connector

Function

- Simple and economical installation through direct screwing to the connecting structure without movable parts
- Virtually impervious to shock loads and side forces
- Minimal measurement value reaction on high interferential forces and moments
- Suitable to the construction of service free scales in severe environments
- High overload capability
- High degree of repeatability
- High long-term stability

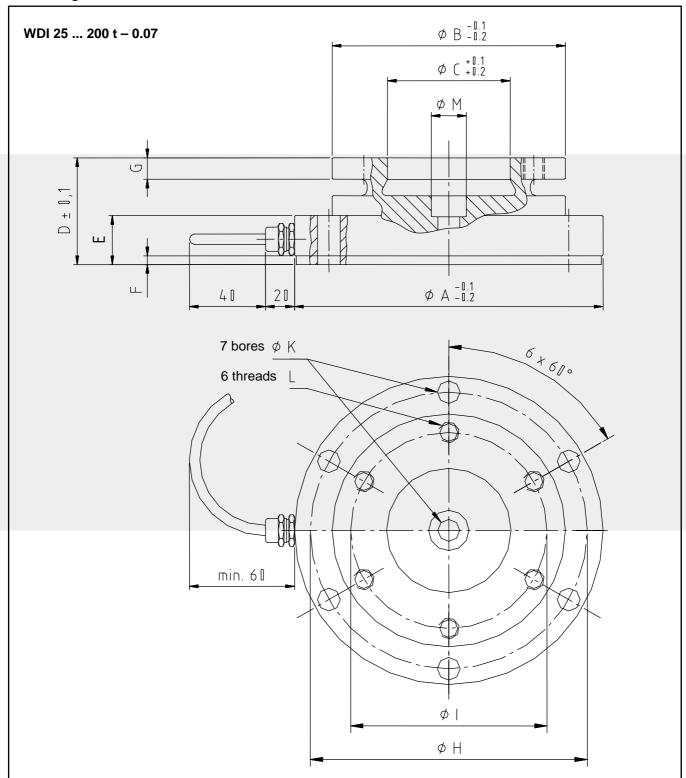
Operating principle



Technical Data

		WDI 25 - 0.07	WDI 50 - 0.07	WDI 100 - 0.07	WDI 200 - 0.07	Reference	
Rated capacity	E _{max}	25 t	50 t	100 t	200 t		
Limit load (with L _q =0,15xL _n) Limit load = Maximum admissible load		75 t	150 t	300 t	600 t		
Rupture load (with L $_q$ =0,15xL $_n$)	L _d	125 t	250 t	500 t	1000 t		
Max. admissible side load	L _{qmax}	12 t	25 t	50 t	100 t		
Sensitivity	C _n		E _{max}				
Combined Error	F _{comb}		C _n				
Creeping under load (30 min)	F _{cr}		Cn				
Input resistance	R _e		Tr				
Output resistance	Ra		T _r				
Reference supply voltage	U _{sref}						
Max. supply voltage	U _{smax}						
Nominal temperature range	B _{tn}						
Service temperature range	B _{tu}						
Reference temperature	T _r						
Storage temperature range	B _{ts}						
Temperature effect on zero signal	TK _o		C _n in B _{tu}				
Temperature effect on sensitivity	TKc						
Dead weight	m _e	10 kg	10 kg	20 kg	47 kg		
Corrosion protection		hot dip galvanized					
Protection class		IP 67					
Cable specification		Standard: silico scre rang Optional: same					
		Optional: same silicon cable (Ø 6,5 mm x 15 m) with plug (Ø 30 mm x 160 mm) 200 mm distance from Weighdisc black: input + / blue: input -					
Colour code		red: output + / white: output - green-yellow: screening					

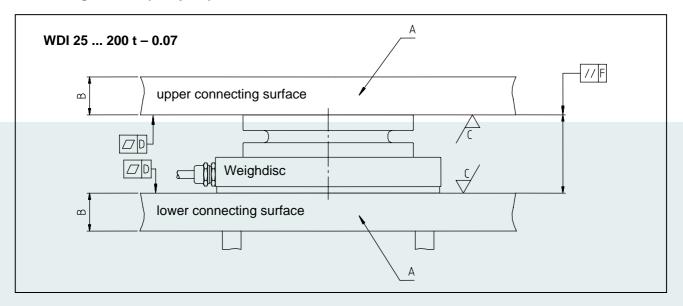
Mounting Dimensions



Variant	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	K mm	L	M mm
WDI 25t / 50t	192	136	70	65	28	5	16	168	115	17,5	M16	26
WDI 100t	265	195	100	88	36	8	23	234	164	22	M20	32
WDI 200t	350	263	140	120	54	8	25	310	220	26	M24	38



Connecting surface quality requirements



- Material quality "A":
 Usually construction steel of a minimum quality
 S235 is used
- Plate thickness "B":
 Depends on stiffness of total construction. Plate thickness of connecting surface must be such high, that maximum deflection is less than 0.05 mm.
- Surface quality "C": Requisite mean roughness of the connecting surfaces is 6.3 μm
- Planeness "D":
 Maximum admissible planeness tolerance within every connecting surface is 0.03 mm
- Plane parallelism "F":
 Upper and lower connecting surfaces to the
 Weighdisc have to be plane parallel to minimum
 0.1 mm

Variant	Order No.				
Weighdisc with hardwired cable (15 m)					
WDI 25 t - 0.07	V039000.B05				
WDI 50 t - 0.07	V039000.B06				
WDI 100 t - 0.07	V039000.B07				
WDI 200 t - 0.07	V039000.B08				
Weighdisc with plug and cable (15m)					
WDI 25 t - 0.07 K	V039000.B01				
WDI 50 t - 0.07 K	V039000.B02				
WDI 100 t - 0.07 K	V039000.B03				
WDI 200 t - 0.07 K	V039000.B04				
Spare Part:					
15 m connecting cable with plug	V023643.B01				

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