

TFE-TFV

Electronic weighing equipment Flow meters for solids

ELECTRONIC
EQUIPMENT

ACOUSTIC

WEIGHING

ANTI-TILTING

VALVES

TEMPERATURE

DETECT
A FIRE®

FLOW/
RATE

DENSITY

INTERFACE

PRESSURE

LEVEL

**TF
117**



TFE



TFV

The TFE/TFV flow meters for solids are suitable for use with small to medium conveying quantities for a wide range of materials with different grain size, density and flow characteristics.

Benefits

- For special power supply applications
- Detection element mounted externally to the process
- Capacity from 0.2 to 300 t/h (0.2 to 330 STPH)
- Continuous material flow detection without stopping the process
- Totally enclosed, dust-proof construction: for use in hazardous areas, and applications with periodic cleaning cycles
- Minimum maintenance and/or recalibration requirements after installation and material tests

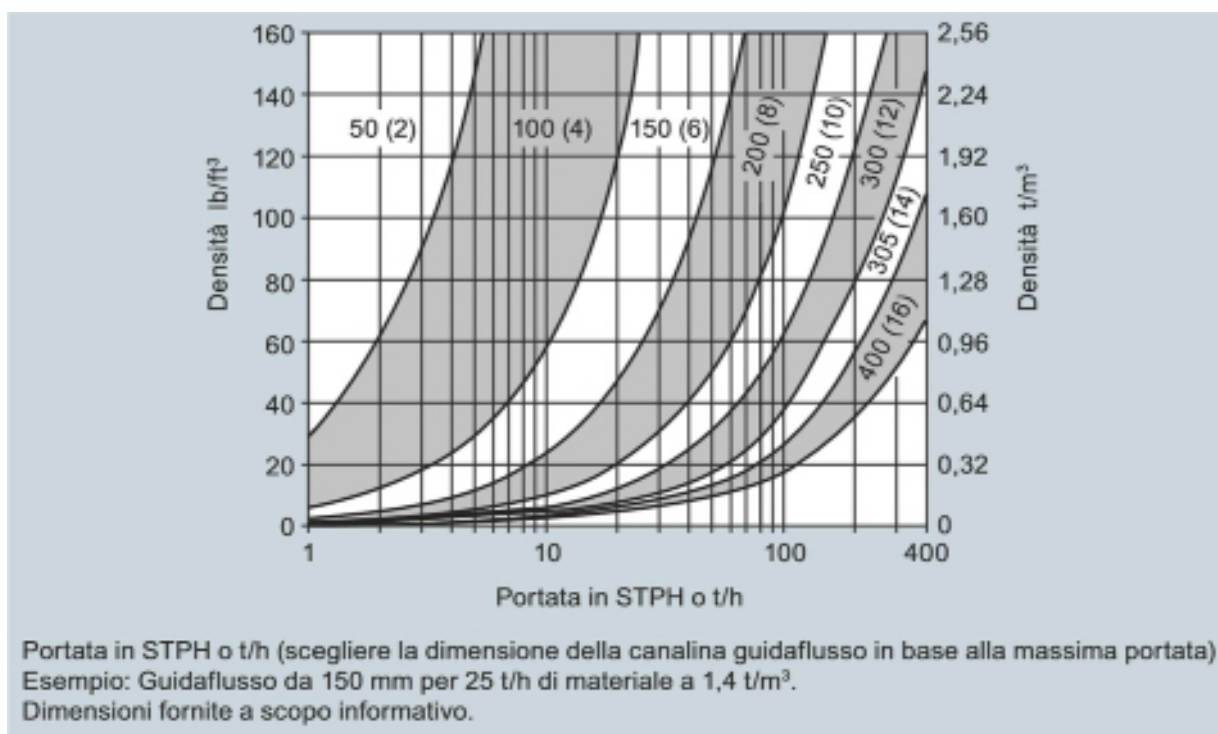
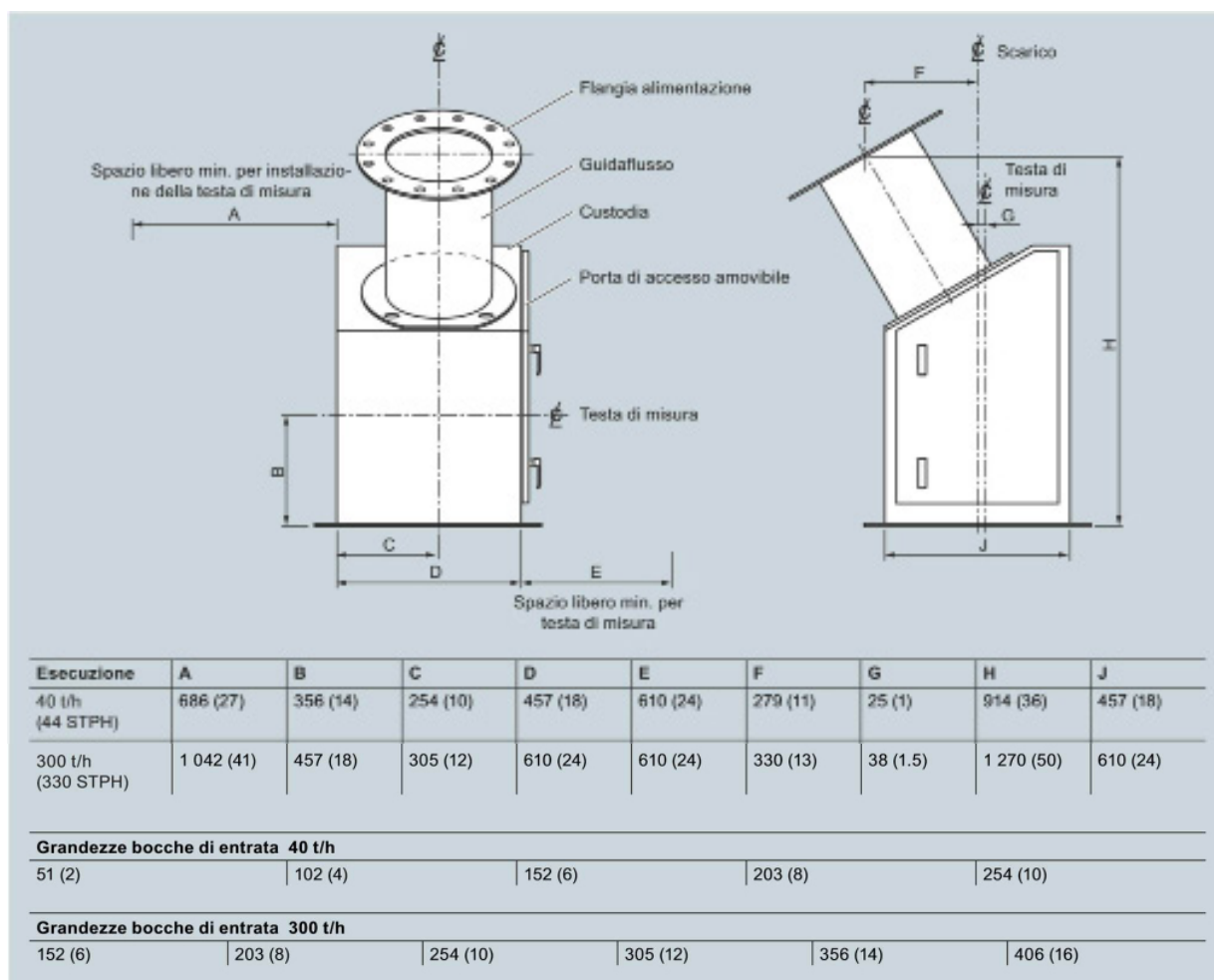
Application area TF- WF300 series

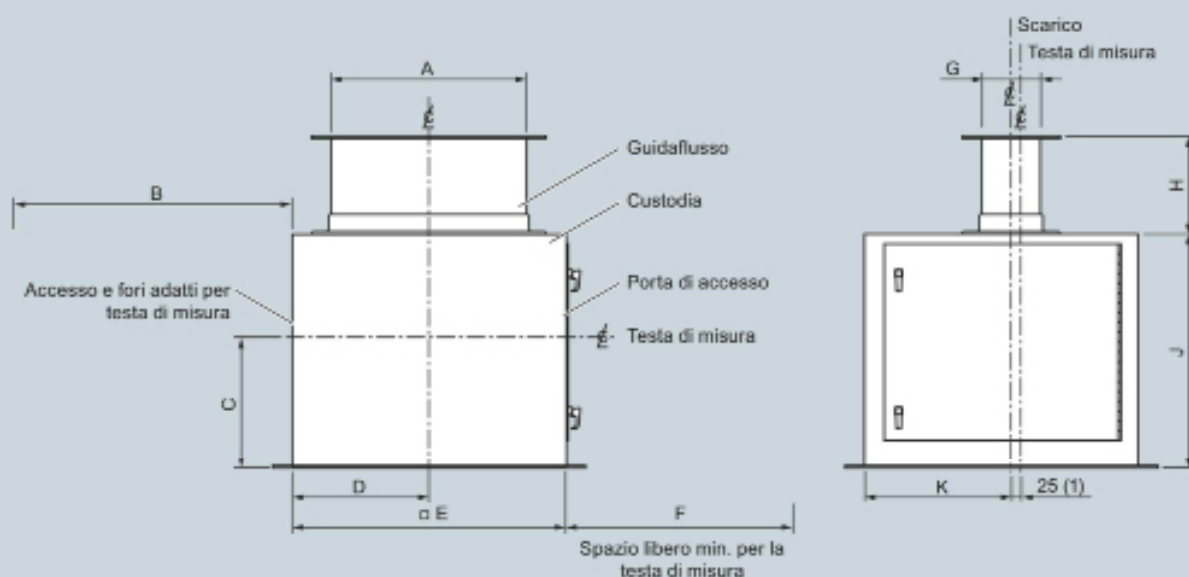
With their externally mounted weighing mechanism, the TF series flowmeters for solid materials guarantee maximum reliability even with corrosive, abrasive or hot materials. Designed to control materials of different particle sizes, densities and fluidity (e.g. fine powder such as cement), they work perfectly with process temperatures up to 230 °C (450 °F). These flow meters help to improve the quality of the end product, increase productivity and realise considerable cost savings. When used with a compatible ILE37/ILE61 measuring head and a

microprocessor-based integrator, the TFSF500 series flowmeters for solids provide an accurate indication of the instantaneous flow rate and totalised quantity as well as possible alarm signals. The 0/4 to 20 mA output signals are proportional to the flow rate, and an open collector output is available for external totalization. The bulk material falls through the flow guide against the measuring plate, thus causing a mechanical deflection. It then continues to fall unimpeded. The horizontal force of the deflection is converted into an electrical signal via the LVDT differential transformer. The integrator processes the signal and provides an immediate indication of the instantaneous flow rate and totalised quantity. Since only the horizontal force is measured, the vertical force due to material build-up has no effect.

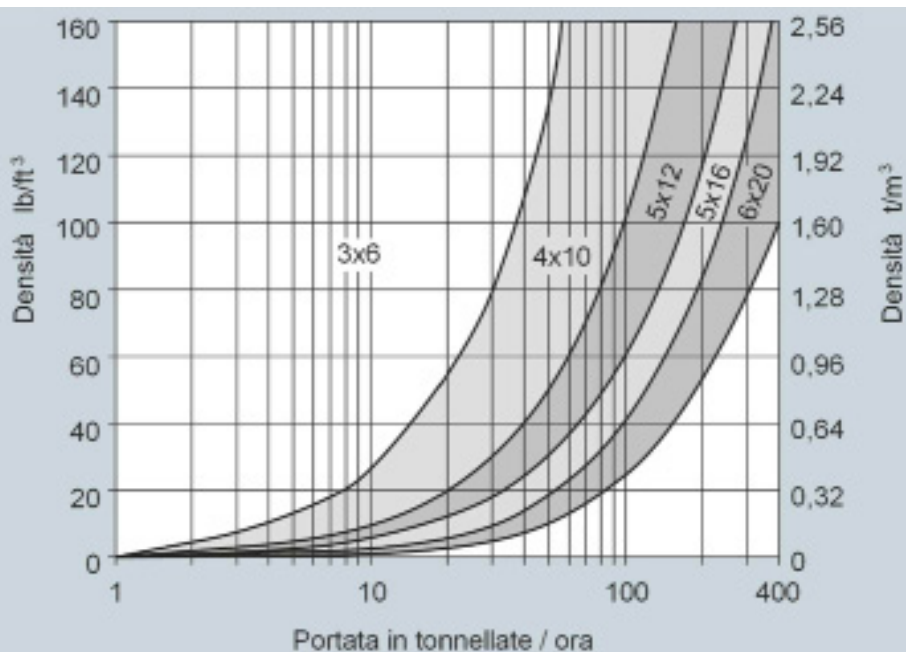
Flow meters for TFE solids are fully enclosed. They have an external measuring sensor and can work with corrosive, abrasive or hot. For applications with limited headroom, TFV solids flowmeters are the ideal solution.

TFE40/TFE300





Esecuzione	A	B	C	D	E	F	G	H	J	K
40 t/h (44 STPH)	152 (6)	686 (27)	304 (12)	254 (10)	508 (20)	457 (18)	76 (3)	203 (8)	508 (20)	254 (10)
40 t/h (44 STPH)	254 (10)	686 (27)	304 (12)	254 (10)	508 (20)	457 (18)	102 (4)	203 (8)	508 (20)	254 (10)
40 t/h (44 STPH)	305 (12)	686 (27)	304 (12)	254 (10)	508 (20)	457 (18)	127 (5)	203 (8)	508 (20)	254 (10)
300 t/h (330 STPH)	406 (16)	1 041 (41)	343 (13.5)	305 (12)	610 (24)	762 (30)	127 (5)	254 (10)	610 (24)	330 (13)
300 t/h (330 STPH)	508 (20)	1 041 (41)	343 (13.5)	356 (14)	711 (28)	762 (30)	152 (6)	254 (10)	610 (24)	381 (15)



Se i valori di densità e di flusso del materiale sono prossimi al limite max. applicabile del guidaflusso, scegliere un guidaflusso più grande.