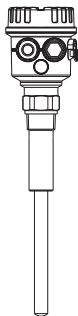


Upute za uporabu **Soliphant T FTM20, FTM21**

HR- Nivo sklopka



hr - Sadržaj

Sigurnosne napomene	3
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Oprez!

= zabranjeno;
dovodi do neispravnog rada ili
uništenja.

hr - Sigurnosne napomene

Soliphant T FTM20, FTM21 je nivo sklopka za rasute krutine finog ili krupnijeg zrna.

U slučaju nepravilne upotrebe moguće su opasnosti prilikom primjene.

Isključivo ovlašteno i

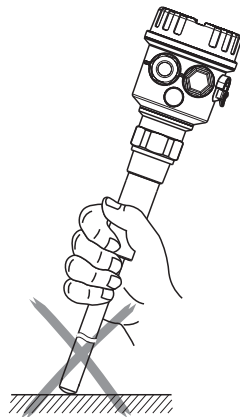
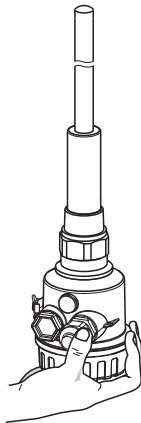
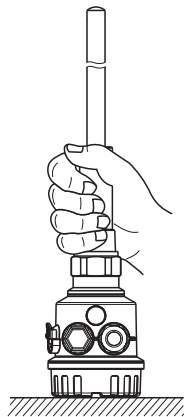
školovano osoblje smije ugrađivati, priključivati, puštati u pogon, rukovati te održavati nivo sklopku, uz strogo pridržavanje ovih Uputa za uporabu, svih normi, zakonskih propisa i, ovisno o primjeni, dostupnih certifikata. U blizinu uređaja treba instalirati lako dostupni mrežni prekidač. Mrežni prekidač označite kao mehanizam za isključenje uređaja.

Upotrebljavajte isključivo izolirane alate!

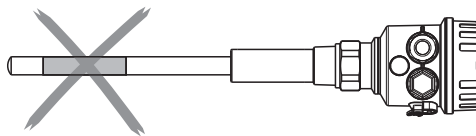
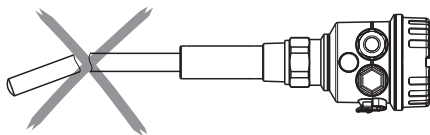
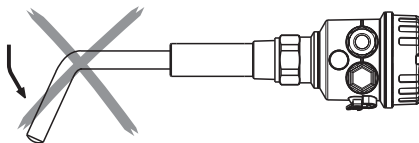
Upotrebljavajte isključivo originalne rezervne dijelove!

hr - Rukovanje

Uređaj držite za kućište, priрубnicu
ili produžnu cijev.



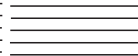
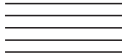
hr - Uređaj **nemojte** savijati
Uređaj **nemojte** skraćivati
Uređaj **nemojte** produživati





Kód narudžbe

FTM20- # # # #

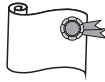

A
C
D
Y
4

*¹

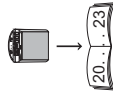
CSA opća namjena, CSA C US CS
CSA DIP+FM, DIP

*²

ATEX II 1/3 D


DIN 2999 R 1 316L
DIN 2999 R 1½ 316L
ANSI NPT 1¼ 316L
ANSI NPT 1½ 316L
*²

A
G
M
N
Y

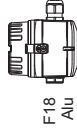
2 FEM22; PNP, 10... 45 V DC
4 FEM24; DPDT, 19...253 V AC/55 V DC
9 *²




2 F16, IP66/67; M20
 3 F16, IP66/67; NPT 1/2
 4 F16, IP66/67; G 1/2
 5 F18, IP66/67; M20
 6 F18, IP66/67; NPT 3/4
 7 F18, IP66/67; G 1/2
 9 *

A Osnovna verzija

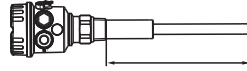
Y *



*¹ bez
 *² ostalo



ENDRESS+HAUSER
Soliphant T



Kód narudžbe

FTM21-####

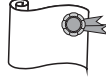
L

A
C
D
Y
4

*¹ CSA opća namjena, CSA C US CS
CSA DIP+FM, DIP
*² ATEX II 1/3 D

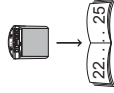
A DIN 2999 R 1 316L
G DIN 2999 R 1½ 316L
M ANSI NPT 1¼ 316L
N ANSI NPT 1½ 316L
Y *²

2 500 mm
3 1000 mm
4 1500 mm
6 20 inch
7 40 inch
8 60 inch
9 *²





2 FEM 22; PNP, 10... 45 V DC
 4 FEM 24; DPDT, 19...253 V AC/55 V DC
 9 *



2 F16, IP66/67; M20
 3 F16, IP66/67; NPT 1/2
 4 F16, IP66/67; G 1/2
 5 F18, IP66/67; M20
 6 F18, IP66/67; NPT 3/4
 7 F18, IP66/67; G 1/2
 9 *



F16
PBT



F18
Alu

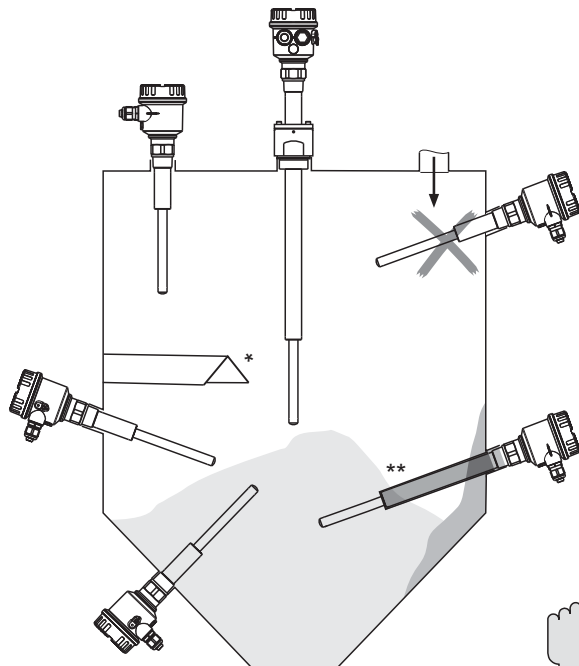
A Osnovna verzija

Y *

*1 bez
 *2 ostalo

hr - Primjena

Utvrđivanje granica u krutinama



*

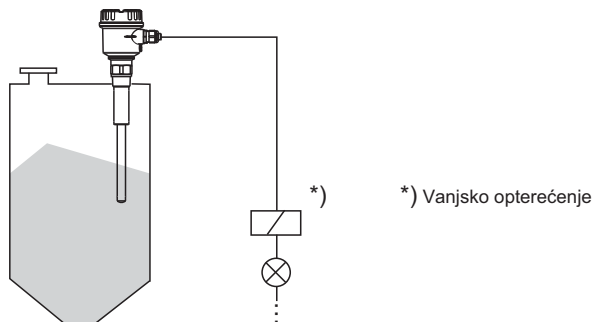
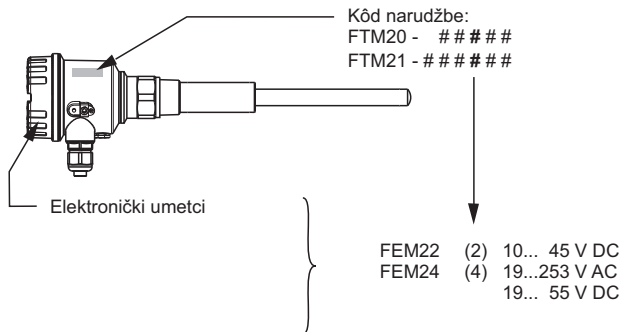
Zaštitni krov

ili

**

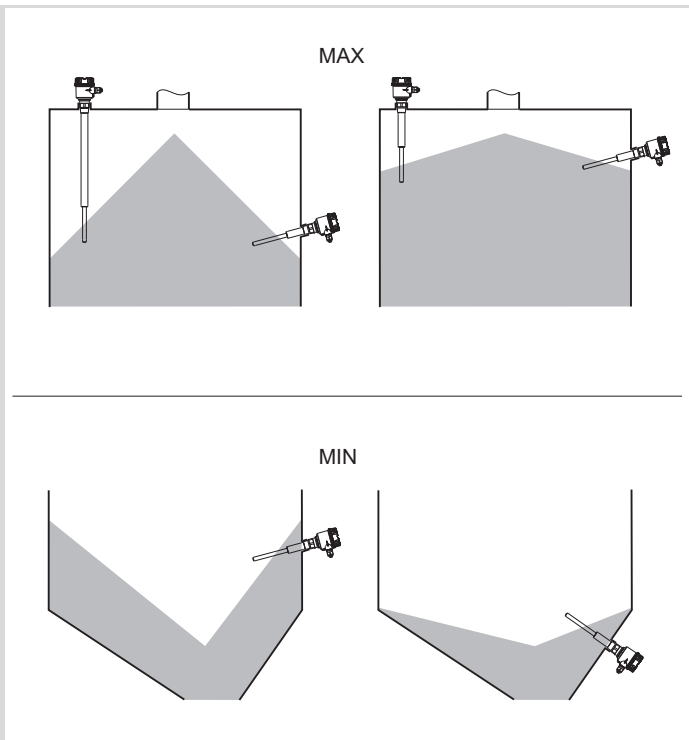
Zaštitna cijev

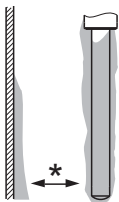
hr - Sustav za mjerenje za izravno priključivanje



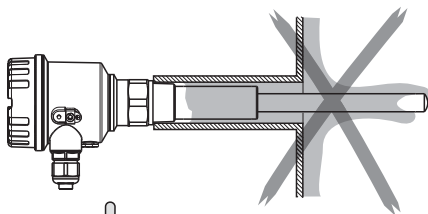
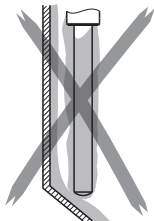
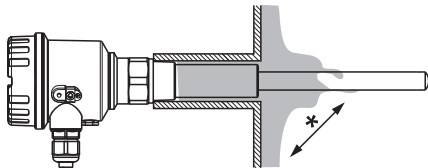
hr - Ugradnja

Mjesto ugradnje ovisi o konusu
rasutih krutina i mediju





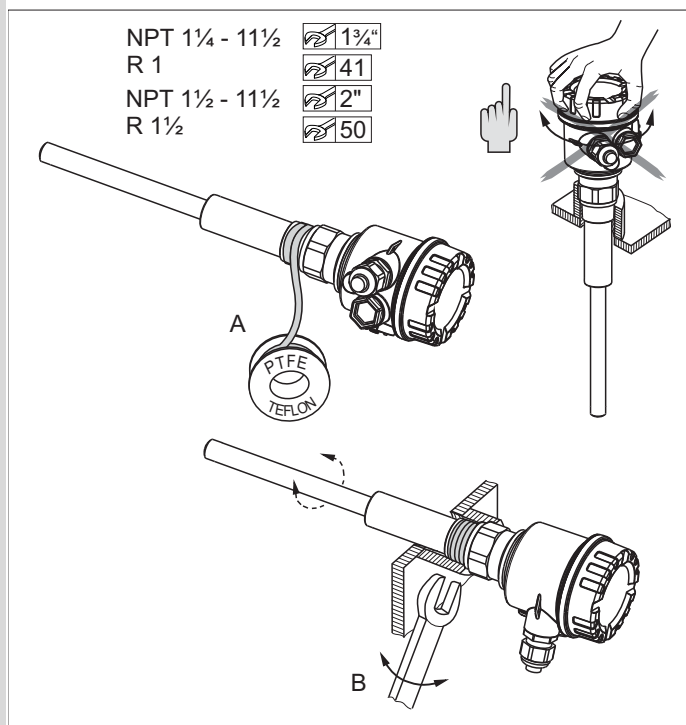
* Držite razmak!



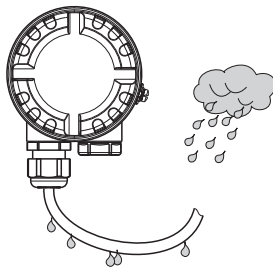
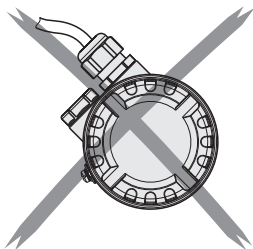
hr - Uvažite taloženje ostataka.

hr - Zavrните Soliphant na procesni priključak.

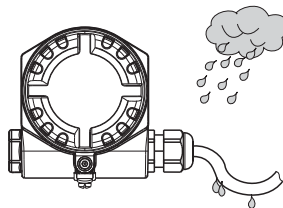
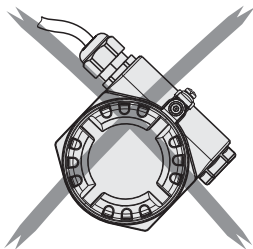
Nemojte upotrebljavati kućište za okretanje!



F16 (Poliester)

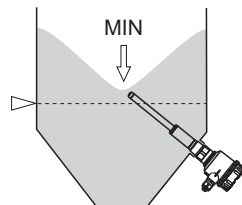
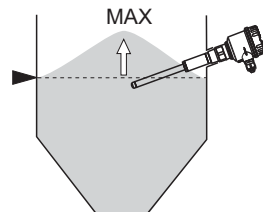
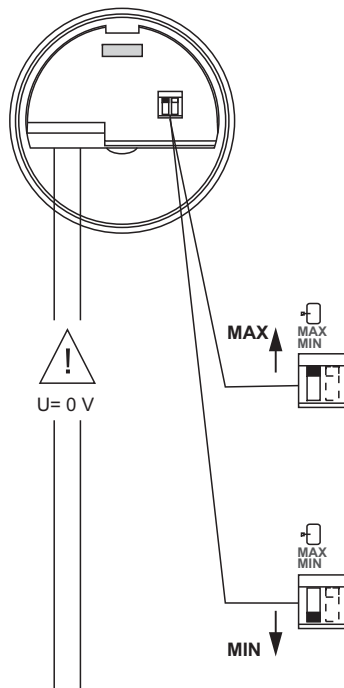


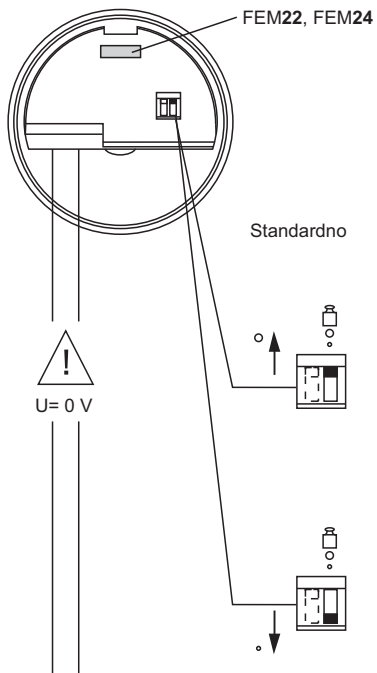
F18 (Aluminij)



hr - Namještanje

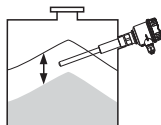
Minimalni/maksimalni sigurnosni
način rada





hr - Gustoća rasutih krutina.
Masa hrpe izmjerena u g/l.

*
manje osjetljivo na taloženje ostataka



Promjenjiva
razina

LED svjetla

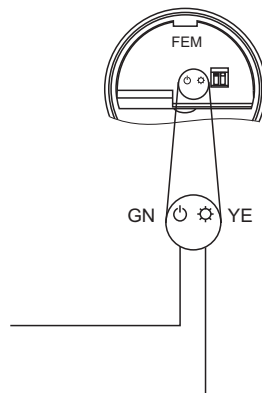
 Stanje mirovanja

 Status prespajanja

 Uključeno

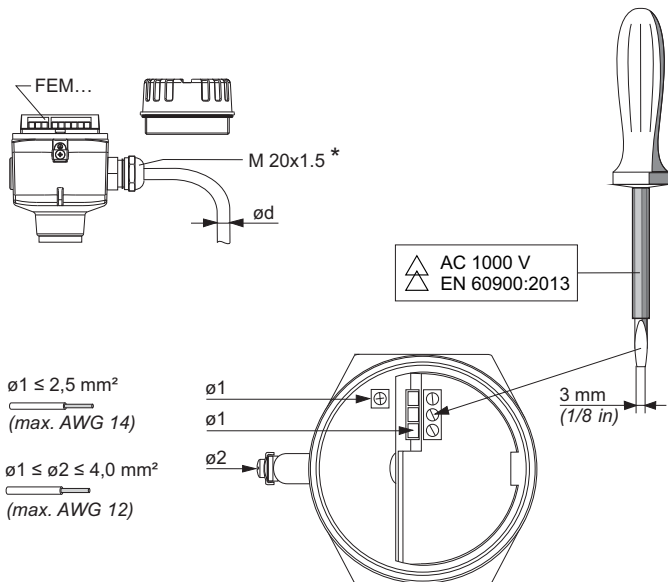
 Isključeno

 Izlazni signal





Pridržavajte se lokalnih zakonskih propisa!



hr - Priključci

*Ulaz za kabel

Poniklani mjed:

Ø d = 7...10,5 mm (0,28...0,41 in)

Plastika:

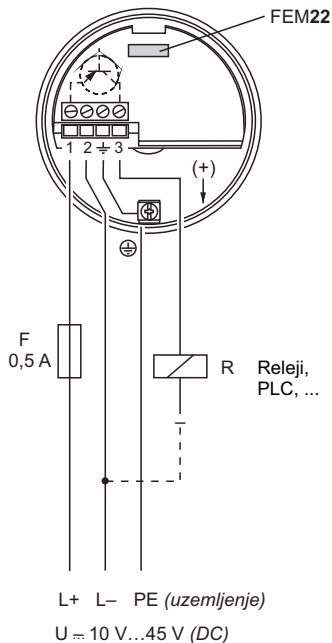
Ø d = 5...10 mm (0,2...0,38 in)

Nehrđajući čelik:

Ø d = 7...12 mm (0,28...0,47 in)

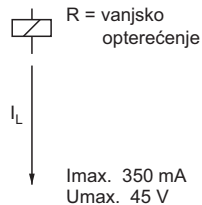
br.- Priključci FEM22

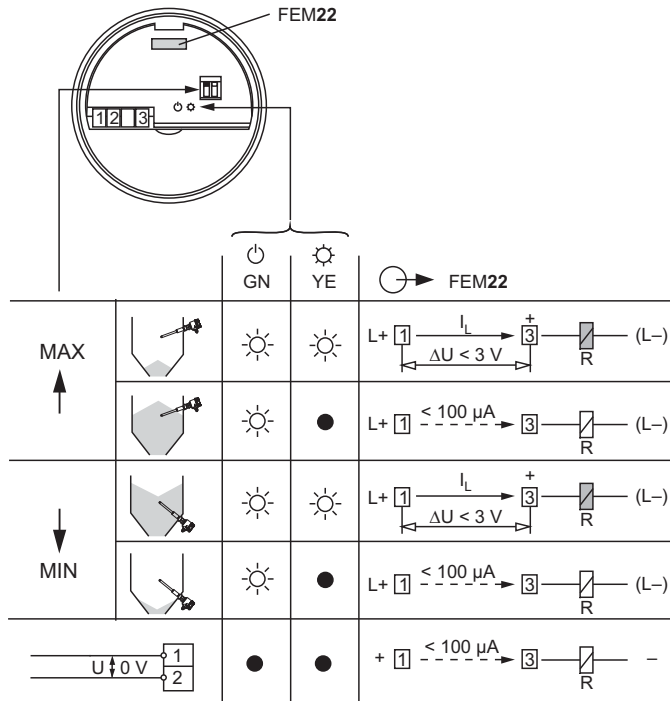
Priključak istosmjerne struje (PNP)



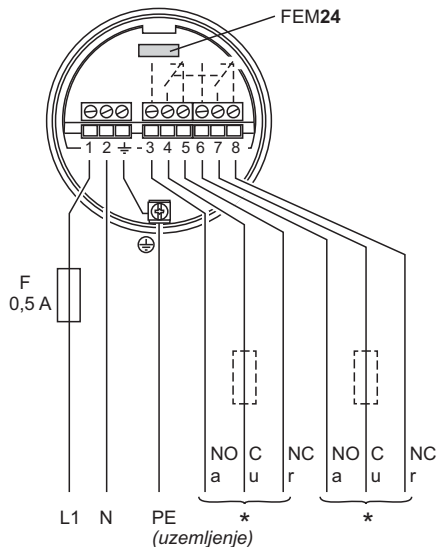
isto vrijedi za
DI module

EN 61131-2





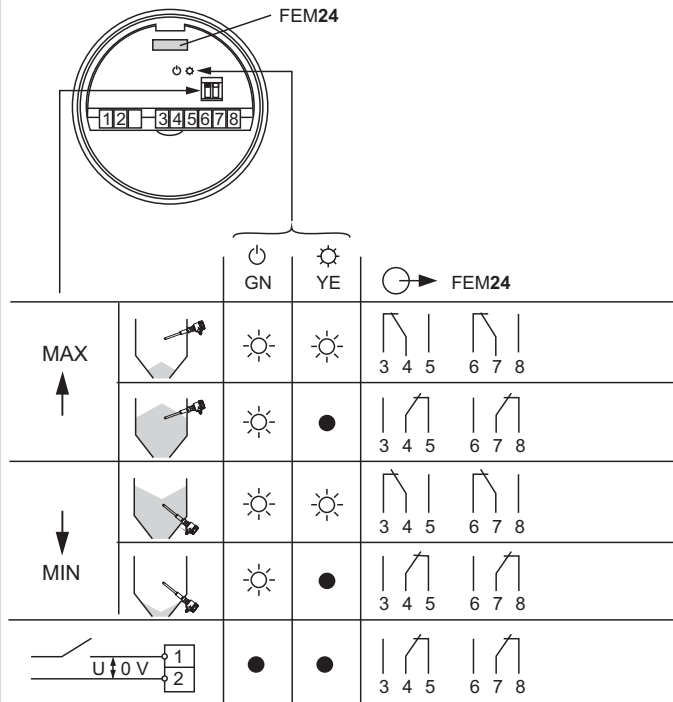
hr - Priključci FEM24
Univerzalni priključak
Izlaz releja



$U \sim 19 \dots 253 \text{ V (AC)}$

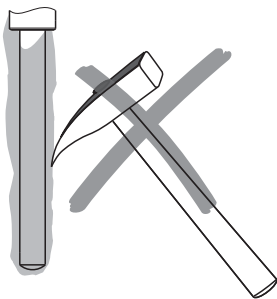
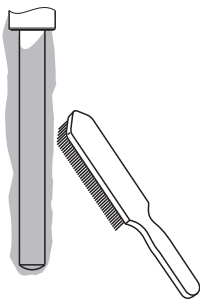
$U_{-} 19 \dots 55 \text{ V (DC)}$
L+ L-

$\left\{ \begin{array}{l} U \sim \text{max. } 253 \text{ V, } I \sim \text{max. } 6 \text{ A} \\ P \sim \text{max. } 1500 \text{ VA, } \cos \varphi = 1 \\ * \quad P \sim \text{max. } 750 \text{ VA, } \cos \varphi > 0.7 \\ I_{-} \text{max. } 6 \text{ A, } U_{-} < 30 \text{ V} \\ I_{-} \text{max. } 0.2 \text{ A, } U_{-} < 125 \text{ V} \end{array} \right.$

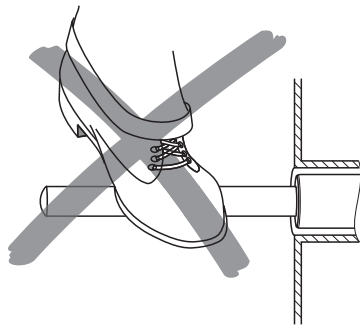


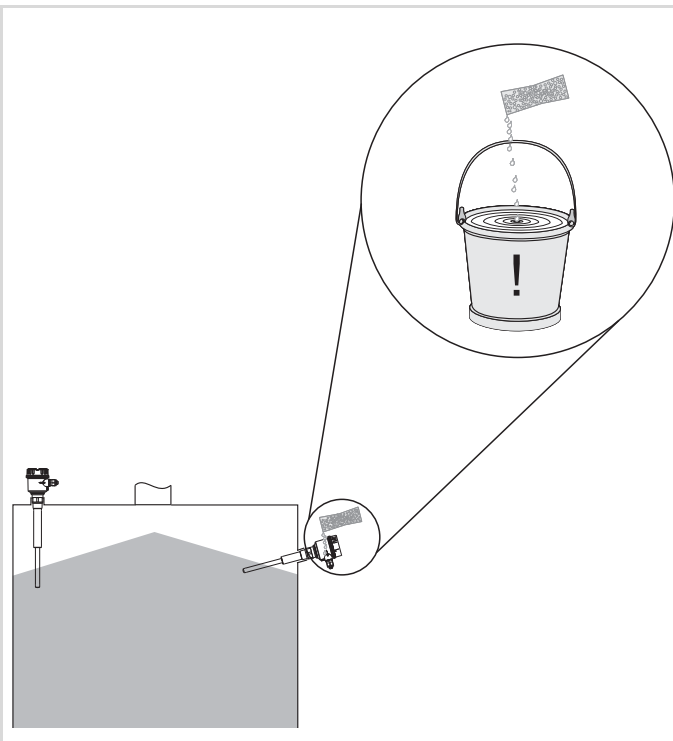
hr - Održavanje

Uklanjanje debele kore!



Nemojte upotrebljavati
kao stepenicu!





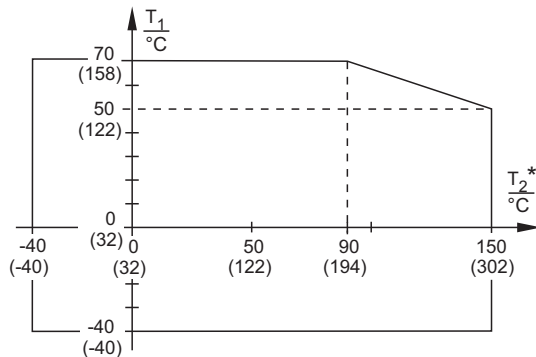
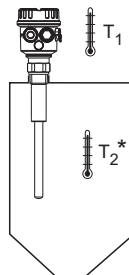
hr - Vanjsko čišćenje

Sredstvo za čišćenje ne smije
korozivno djelovati na površine i
brtve.

hr - Tehnički podaci

Temperatura okoline T_1

Procesna temperatura T_2



Tlak procesa



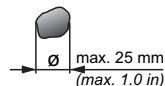
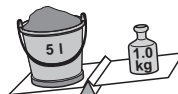
Procesni priključak / pribor

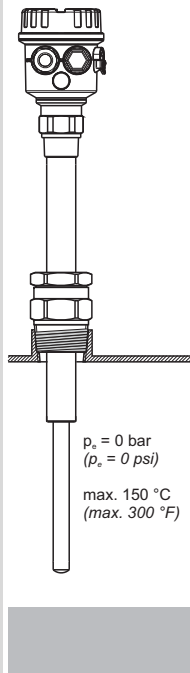
$p_e = \text{max. 25 bar (363 psi)}^*$

Gustoća krutina

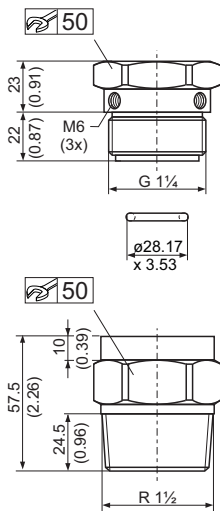
Veličina zrna

min. 200 g/l

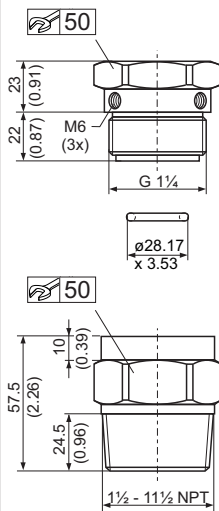




52023313: R 1½
DIN 2999
AISI 316L

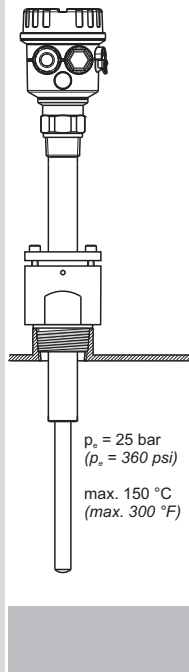


52024578: 1½ - 11½ NPT
ANSI B 1.20.1
AISI 316L



hr - Klizni rukavac
za rad bez tlaka, IP65

mm (in)

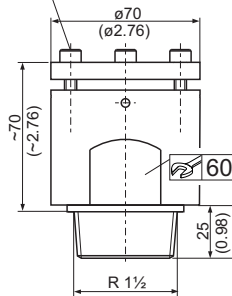


$p_e = 25 \text{ bar}$
($p_e = 360 \text{ psi}$)

max. 150 °C
(max. 300 °F)

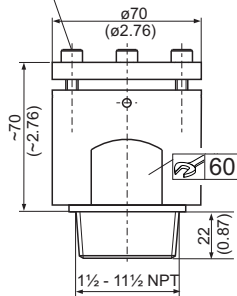
52023312: R 1½
DIN 2999
AISI 316L

M 6x25



52025090: 1½ - 11½ NPT
ANSI B 1.20.1
AISI 316L

M 6x25



Kvar	Uzrok	Mjera
Ne uključuje se	Nema napajanja	Provjerite napajanje
	Neispravan signalni vod	Provjerite signalni vod
	Neispravan elektronički umetak	Zamjena
	Prevelika gustoća rasutih krutina	Namjestite gustoću na >200 g/l na elektroničkom umetku; pogledajte stranicu 19
	Šipka je zakorena	Očistite šipku
	FEM24: međusobno zavareni kontakti (nakon kratkog spoja)	Zamjena FEM24; stavite osigurač u kontakti strujni krug
Nepravilno uklapanje	Neispravno je namješten minimalni/maksimalni sigurnosni način rada	Namjestite ispravan način rada na elektroničkom umetku
Povremeno nepravilno uklapanje	Ekstremne smetnje radiosignala	Upotrijebite oklopljeni kabel
	Ekstremne vibracije	Mehanički odvojite senzor, zakrenite oscilirajuću šipku za 90°
	Voda u kućištu	Ispustite vodu; čvrsto zavrnite poklopac i čahure kabela
	FEM22: preopterećenje izlaza	Smanjite opterećenje, (kabelsku) kapacitivnost

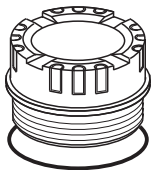
hr - Rezervni dijelovi

Elektronički umetci, poklopci i
brtve kućišta



52025688 (FEM22)

52025691 (FEM24)

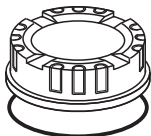


Alu (F18)

52005910

EPDM

*



PA (F16)

52025790

EPDM

*

* Podmažite silikonskom mašću ili grafitom

TI00389F Soliphant T FTM20, FTM21

Sigurnosne napomene

XA00300F   II 1/3 D, EEx ia IIC/IIB

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