Pocket Guide for Installation
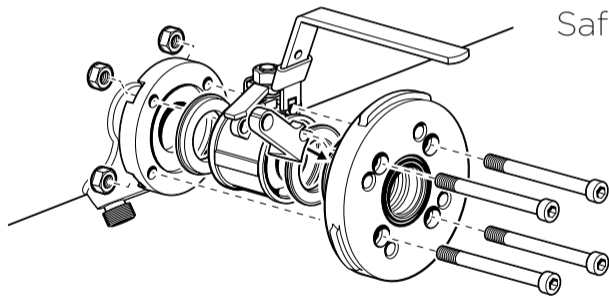
Safe-Drive Generation 2.1

**PR-23-SD
SDI2-23-SN2-XS
SDI2-23-WP2-XS
SDI2-23-PL-SS
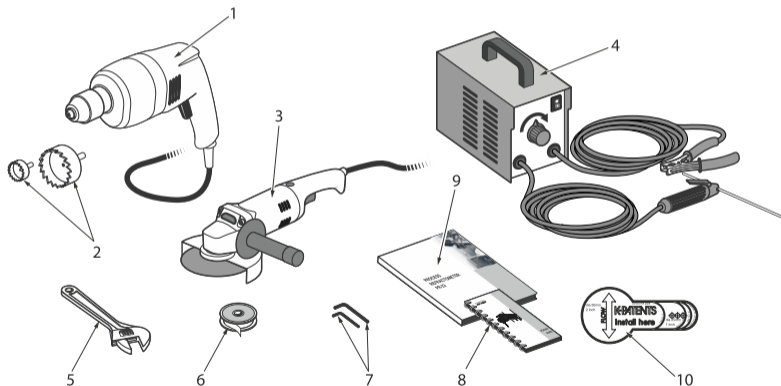SDR2-23**
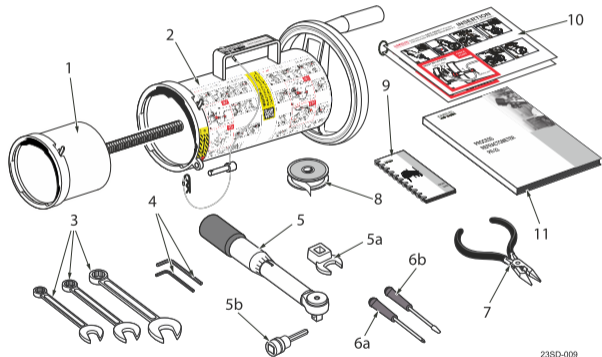
VAISALA

SAFETY REQUIREMENTS

INSTALLATION EQUIPMENT

1. Drill
2. Hole saw 1" and 2"
3. Angle grinder
4. Welding machine
5. Adjustable wrench
6. Thread seal tape
7. Allen keys 5 and 8 mm
8. Installation pocket guide
9. Product user manual
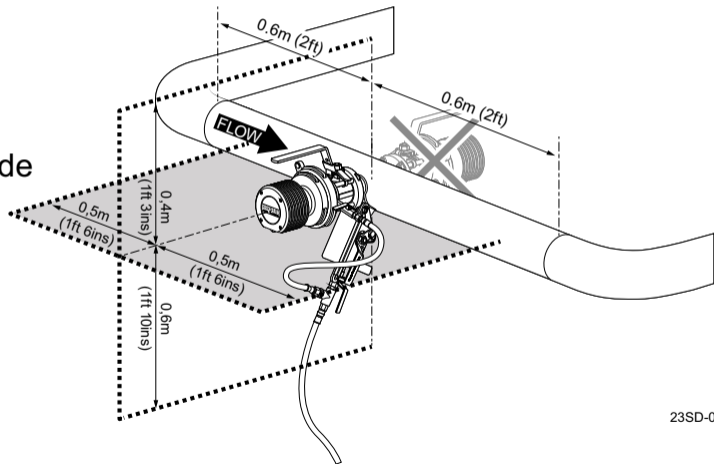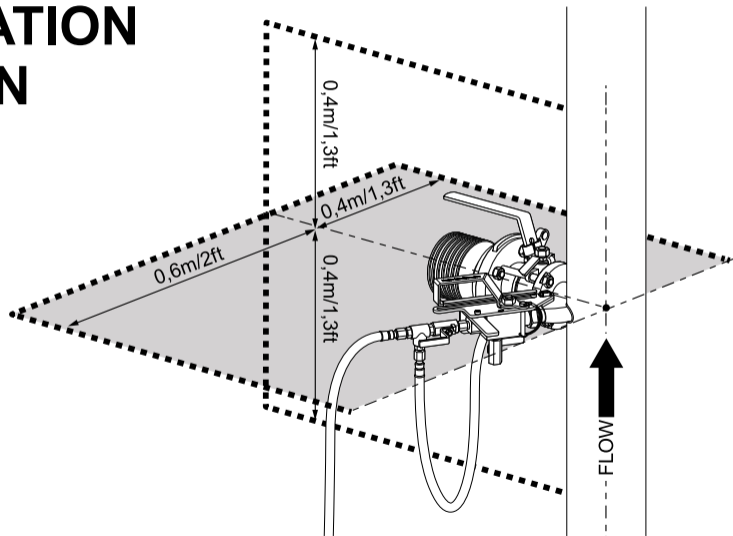10. Drilling guide sticker

SENSOR INSERTION EQUIPMENT

1. Retractor inner casing
2. Retractor outer casing
3. Combination wrenches 32 mm, 14 mm, 8 mm
4. Allen keys 8 mm, 5 mm
5. Torque wrench
   5a. open end fitting 19 mm
   5b. hex bit socket 8 mm
6. Screwdriver
   6a. Phillips head
   6b. Flat head
7. Pliers
8. Thread seal tape
9. Pocket guide for insertion and retraction
10. Laminated instruction cards
11. Best Practices document
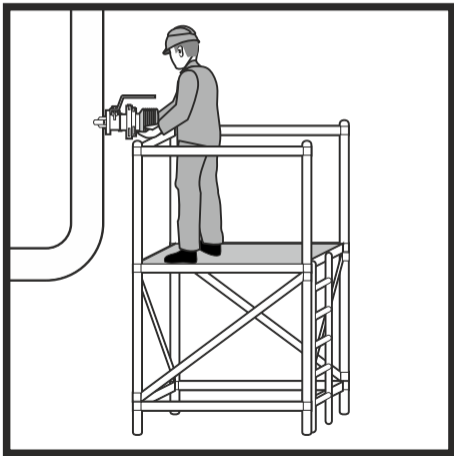
23SD-009

INSTALLATION LOCATION (horizontal)

Installation on the outside region of the pipe.
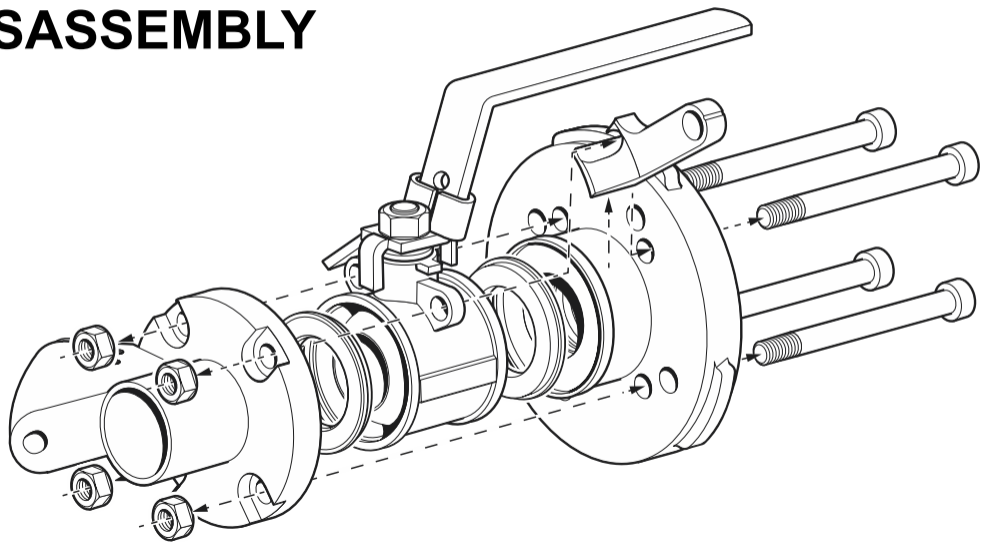

FLOW

0.6m (2ft)

0.6m (2ft)

0.5m (1ft 6ins)

0.5m (1ft 6ins)

0.4m (1ft 3ins)

0.6m (1ft 10ins)

23SD-021

INSTALLATION LOCATION (vertical)

0,4m/1,3ft

0.4m/1,3ft

0.6m/2ft

0,4m/1,3ft

FLOW

INSTALLING AT HEIGHT
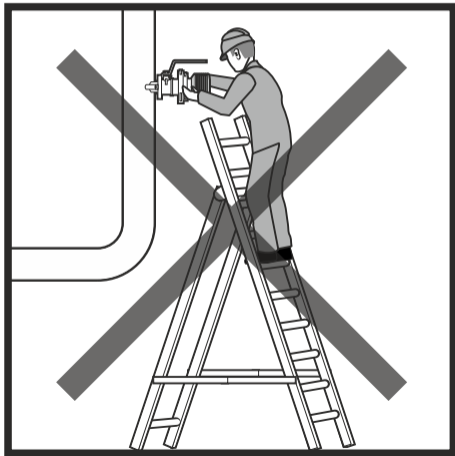
DISASSEMBLY

DRILLING (horizontal)

Process pipe

Position drilling guide sticker

FLOW

90°

Drilling guide sticker

Drill 2in/50mm hole

Remove indicated area between holes

Drill 1in/25mm hole
accordingly positioned to suit process pipe size
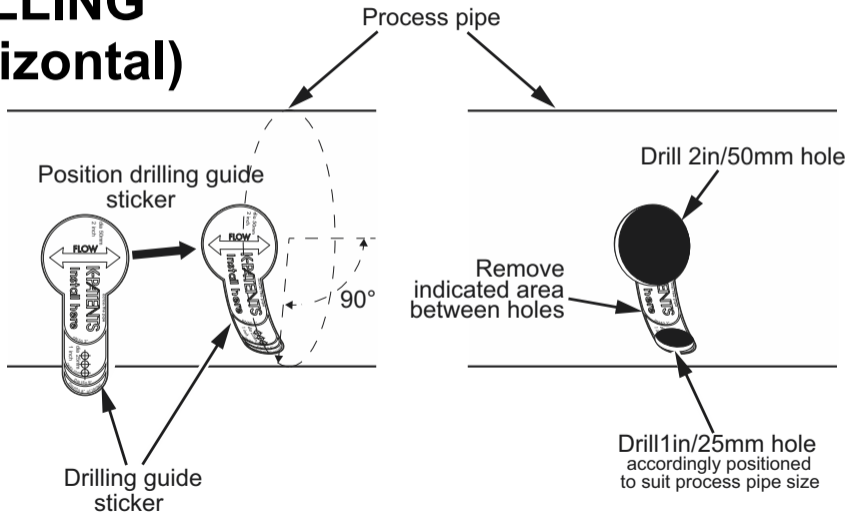
WELDING (horizontal)

Cutout

Process pipe

Material:
SAF 2205
(EN 1.4462 PGTN S33205/S31803)

Important:
Remove
nozzle
before
welding.

Weld

SAFE-DRIVE
mounting flange

Welding ground
point near to
weld position

DRILLING (vertical)

Position drilling guide sticker

Process pipe

90°

K-PATENTS
Install here

Drilling guide sticker

Remove indicated area between holes

Drill 2in/50mm hole

Drill 1in/25mm hole
accordingly positioned to suit process pipe size

WELDING (vertical)

Important:
Remove nozzle
before welding.

Cutout

Process pipe

Material:
SAF 2205
(EN 1.4462 PGTN S33205/S31803)

Weld

Welding ground
point near to
weld position

SAFE-DRIVE
mounting flange
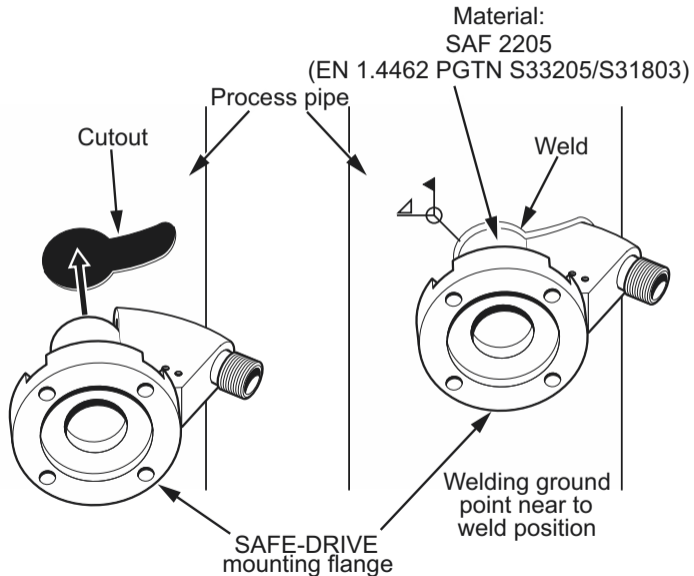
WELDING PLATE
(Brown stock washing fiber line installation)
horizontal, with knife

Process pipe

Process pipe

Cutout

Weld

Safe-Drive
mounting flange

Cutout

❶ Weld   ❸ Continue
weld

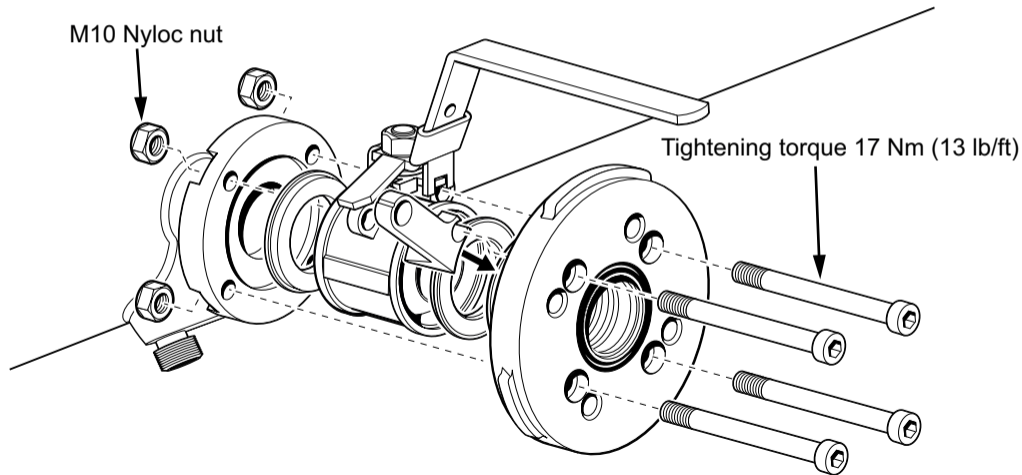❷ Cut and remove

Material: AISI 316 L
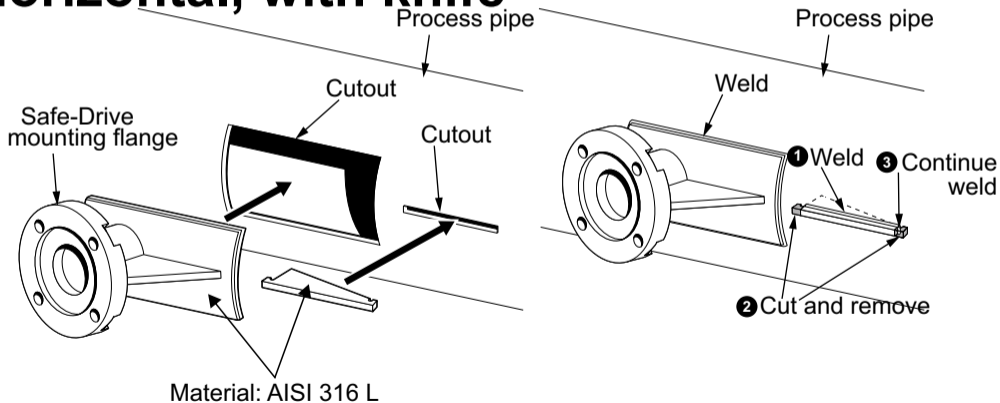
WELDING PLATE
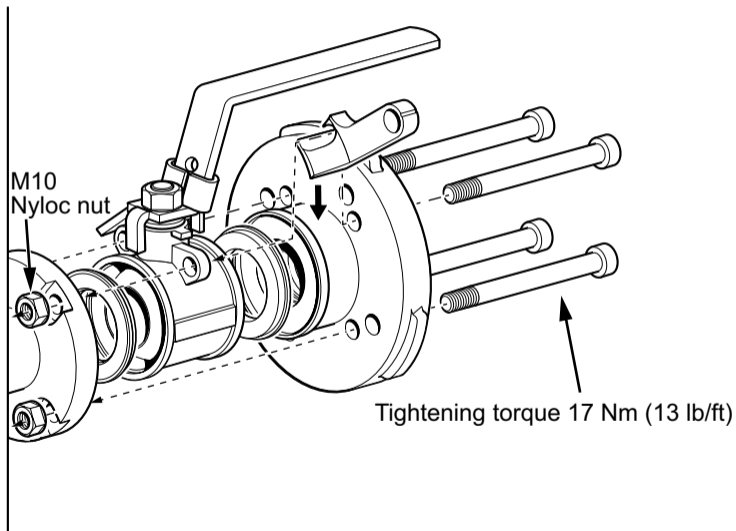# (Brown stock washing fiber line installation)
vertical, with knife

ASSEMBLY (horizontal)

M10 Nyloc nut

Tightening torque 17 Nm (13 lb/ft)

ASSEMBLY (vertical)

M10
Nyloc nut

Tightening torque 17 Nm (13 lb/ft)
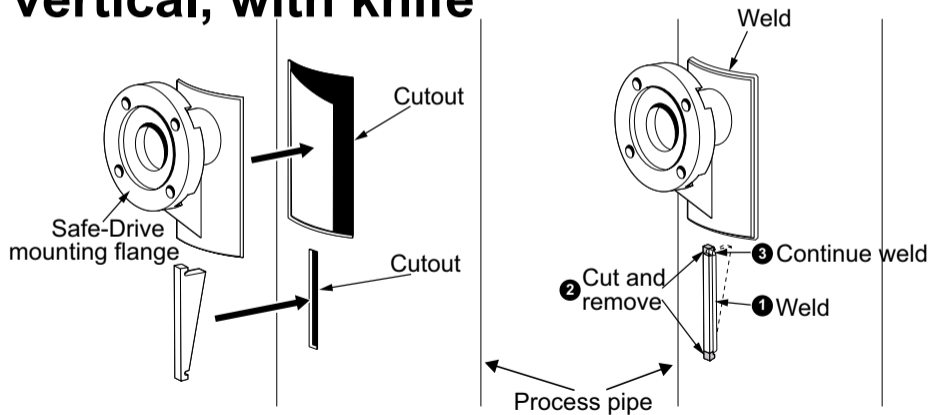
STEAM LINE INSTALLATION

Steam shut-off valve

Steam supply

Air

See user manual for correct pressure

Min 1/2"

Max hose length 0.6m

Steam in 9-13 bar and max 180°C

Strainer

Pressure reducer

Steam trap

Water & steam drain

Flow

STEAM
LINE
INSULATION
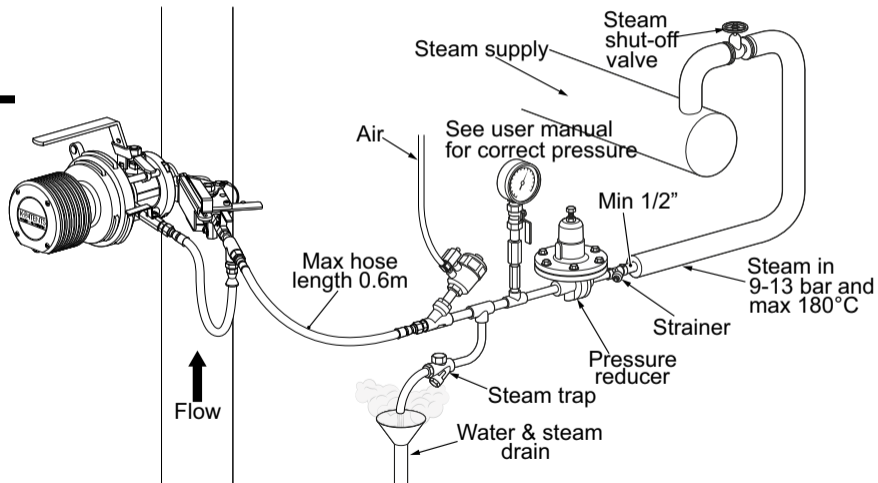
Insulation
recommended
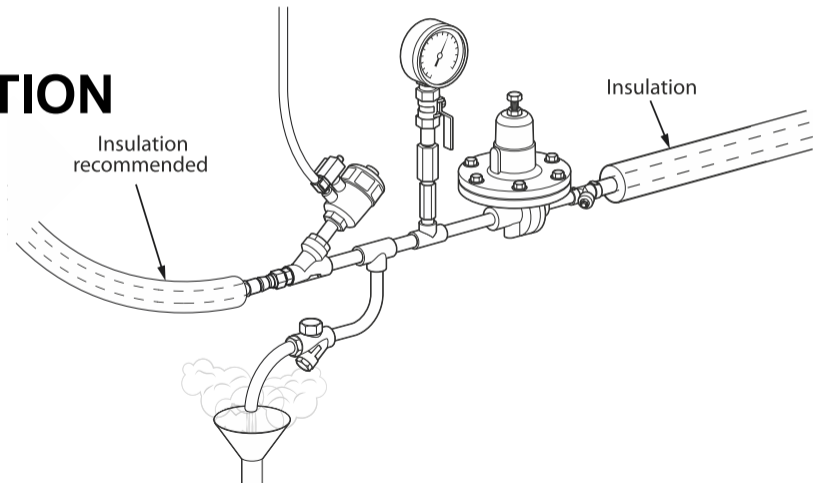
Insulation

HIGH PRESSURE WATER INSTAL-LATION

Solenoid connections to Indicating transmitter DTR

Manometer

Air

Hot blow-out water

Shut-off ball valve 3/8"

Max hose length 0.6m

Flow

Air

Shut-off ball valve 3/8"

Preconditioning to sewer

INSULATION

Recommended

Required

Eye level

25.31

Sensor connection

Solenoid valve connection

Flow

Power switch

Power supply 110-240 v

mA output cable
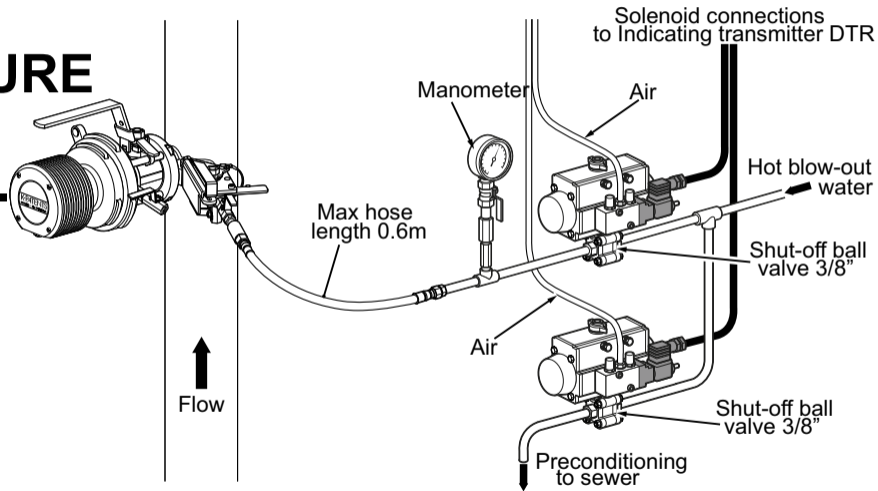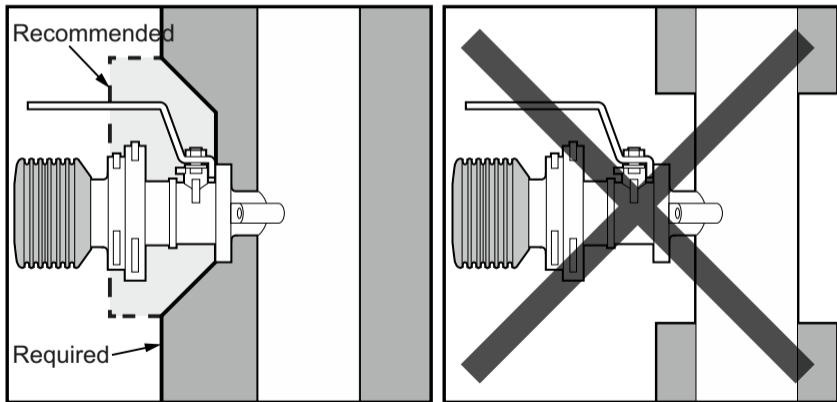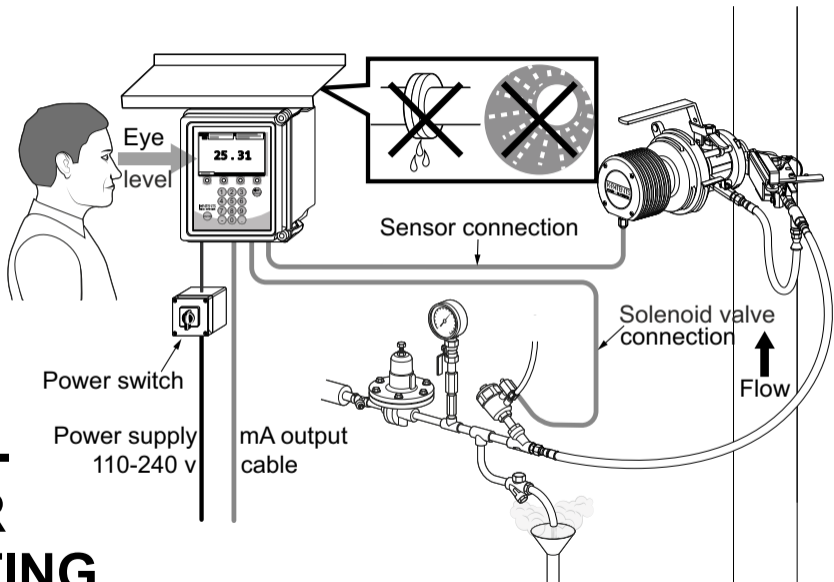
TRANS-MITTER MOUNTING

VAISALA