

DAE HAN INST PRODUCT GUIDE

AVERAGE PITOT TUBE
ANNULAR VENTURI METER
ORIFICE
VENTURI TUBE
VENTURI NOZZLE
FLOW NOZZLE
WEDGE METER
STEADY FLOW METER



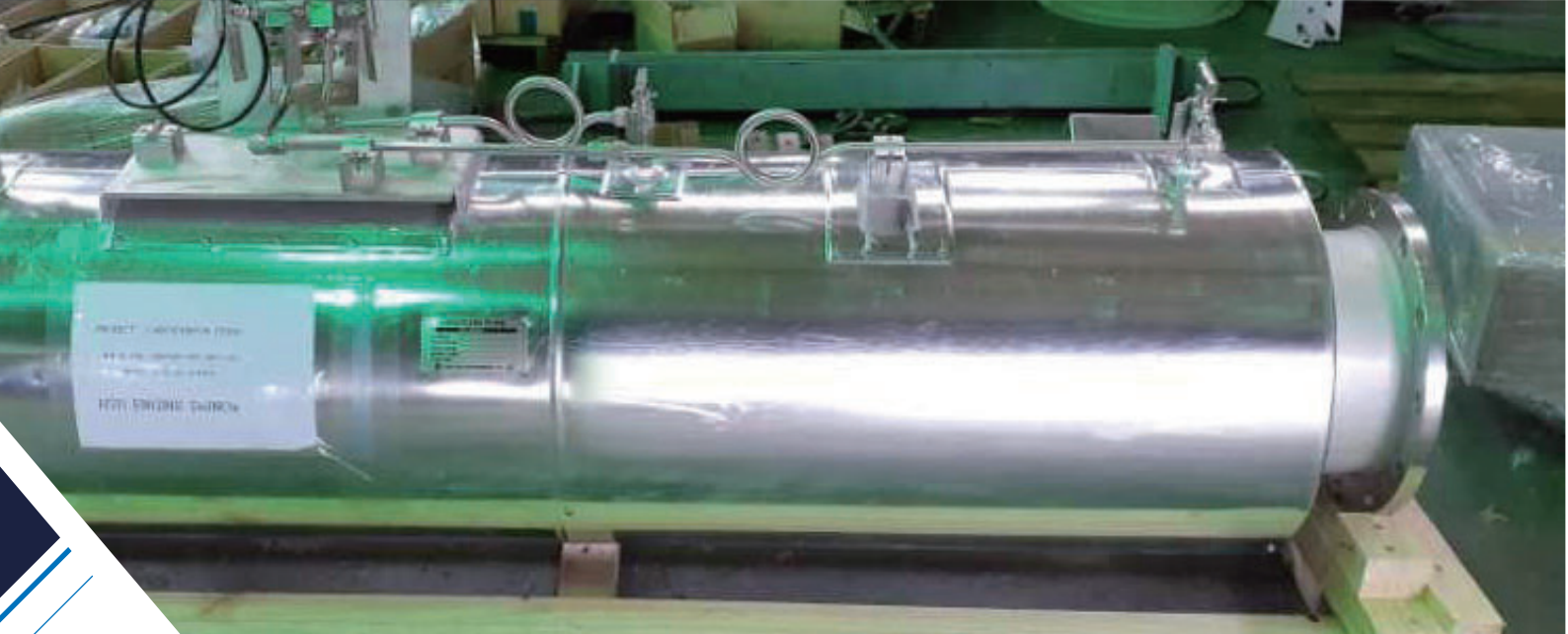
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DAE HAN INST's

Venturi Tubes is
delivered to shipyard and
is being installed in the engine of the LNG carrier.



History

- Dec. 2022
Established DAEHAN INST, laying the foundation for our journey.
- Sep. 2025
Recognized as a Disability-Friendly Enterprise, affirming our commitment to social responsibility and diversity.

AVERAGE PITOT TUBE

AVERAGE PITOT TUBE

301 TYPE

Features

Easy to install

Installation

1"~ 80" Pipe & Duct

Material

STS316, Inconel, Monel, Hastelloy

Mounting Connection

Screw & Flange

Measurement

Liquid & Gas not included sludge
(Fluid with high viscosity is unacceptable)

Accuracy

±1% Calibrated, ±3% Uncalibrated



AVERAGE PITOT TUBE

303 TYPE

Features

Shot-off fluid after remove element on maintenance

Installation

3"~200" Pipe & Duct

Material

STS316, Inconel, Monel, Hastelloy

Mounting Connection

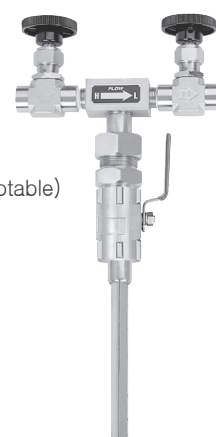
Screw & Flange

Measurement

Liquid & Gas not included sludge
(Fluid with high viscosity is unacceptable)

Accuracy

±1% Calibrated, ±3% Uncalibrated



AVERAGE PITOT TUBE

302 TYPE

Features

Suitable for large caliber

Installation

10"~200" Pipe & Duct

Material

STS316, Inconel, Monel, Hastelloy

Mounting Connection

Screw & Flange

Measurement

Liquid & Gas not included sludge
(Fluid with high viscosity is unacceptable)

Accuracy

±1% Calibrated, ±3% Uncalibrated



AVERAGE PITOT TUBE

304 TYPE

Features

Installation & maintenance can be done in operation

Installation

3"~200" Pipe & Duct

Material

STS316, Inconel, Monel, Hastelloy

Mounting Connection

Screw & Flange

Measurement

Liquid & Gas not included sludge
(Fluid with high viscosity is unacceptable)

Accuracy

±1% Calibrated, ±3% Uncalibrated



ANNULAR VENTURI METER

ANNULAR VENTURI METER (CONE METER)

DHAV-CC01

Features

Unnecessary direct-connecting-pipe & low pressure loss

Turndown Ratio

10 : 1

Material

Cone – STS304, STS316, Inconel, Monel, Hastelloy

Body – C.S, STS304, STS316, Inconel, Monel, Hastelloy

Mounting

Flange 150#, 300#, 600#

Installation

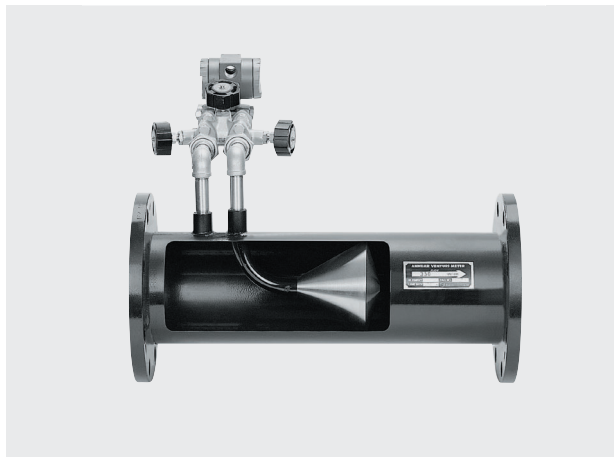
1/2"~72" Pipe & Duct

Regulations

ISO 5167-5

Accuracy

±0.5% Calibrated, ±1.5~5% Uncalibrated



ANNULAR VENTURI METER

DHAV-CC02

Features

Unnecessary direct-connecting-pipe & low pressure loss

Turndown Ratio

10 : 1

Material

Cone – STS304, STS316, Inconel, Monel, Hastelloy

Body – C.S, STS304, STS316, Inconel, Monel, Hastelloy

Mounting Connection

Pipe side

Installation

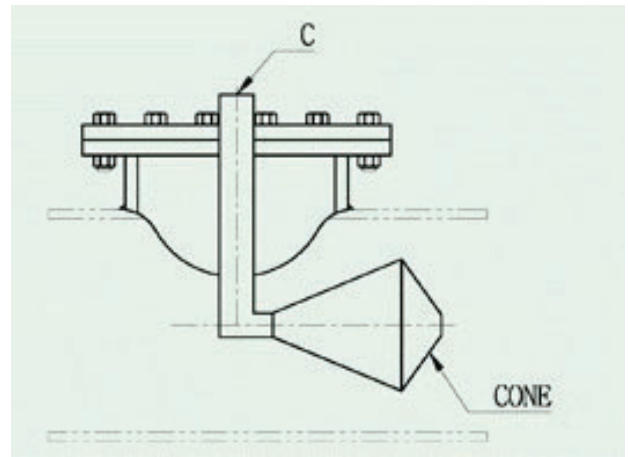
20"~72" Pipe & Duct

Regulations

ISO 5167-5

Accuracy

±0.5% Calibrated, ±1.5~5% Uncalibrated



ORIFICE PLATE

ORIFICE PLATE

DHOP

Features

Low cost of installation & maintenance

Turndown Ratio

4 : 1

Material

STS304, STS316, Inconel, Monel, Hastelloy, Teflon

Mounting

Flange 150#, 300#, 600#, 900#

Installation

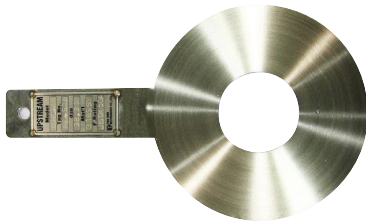
1"~128" (50A~3200A) Pipe & Duct

Regulations

ISO 5167-2

Accuracy

±0.5% Calibrated,
±1~2% Uncalibrated



RING TYPE ORIFICE

DHOF-RING

Features

Low cost of installation & maintenance, Corner-tab type

Turndown Ratio

4 : 1

Material

Plate : STS304, STS316, Inconel, Monel, Hastelloy, Teflon Ring-C.S., STS304, STS316, Inconel, Monel, Hastelloy, Teflon

Mounting

Flange 150#, 300#

Installation

2"~36" (50A~900A) Pipe & Duct

Regulations

ISO 5167-2

Accuracy

±0.5% Calibrated,
±1~2% Uncalibrated



ORIFICE PLATE & FLANGE

DHOF-W

Features

Low cost of installation & maintenance

Turndown Ratio

4 : 1

Material

Plate : STS304, STS316, Inconel, Monel, Hastelloy, Teflon

Flange : C.S., STS304, STS316, Inconel, Monel, Hastelloy, A182 F11, F22, F51

Mounting

Flange 300#, 600#, 900#

Installation

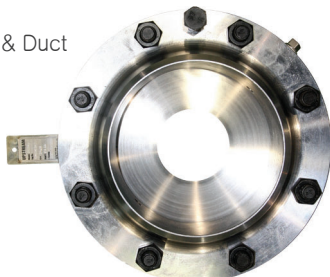
1"~24" (25A~600A) Pipe & Duct

Regulations

ISO 5167-2

Accuracy

±0.5% Calibrated,
±1~2% Uncalibrated



BLANCING ORIFICE

DHBOP

Features

For Balanceing orifice plate

Turndown Ratio

4 : 1

Material Plate

STS304, STS316, Inconel, Monel, Hastelloy

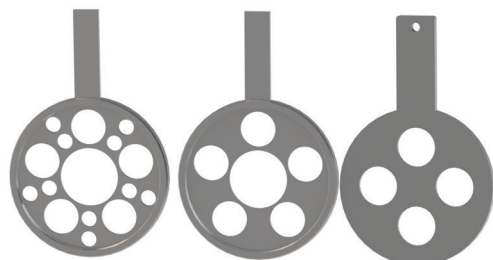
Straight pipe requirements : Upstream 2~4D / Downstream 2~3D

Installation

ISO 5167-2

Accuracy

±0.5% Calibrated, ±1~2% Uncalibrated



RESTRICTION ORIFICE

RESTRICTION ORIFICE

DHRO-MH

Features

Decompression single hole plate

Material

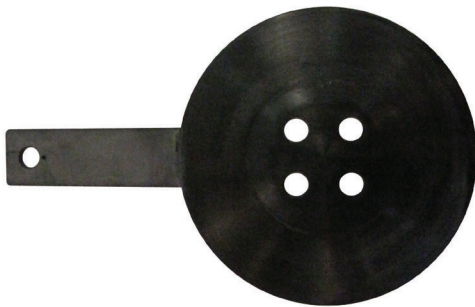
STS304, STS316, Inconel, Monel, Hastelloy, Teflon

Mounting

Flange 150#, 300#, 600#, 900#, 1500#, 2500#

Installation

1/2"~36"(15A~900A) Pipe



RESTRICTION ORIFICE

DHRO-SH

Features

Decompression single hole plate

Material

STS304, STS316, Inconel, Monel, Hastelloy, Teflon

Mounting

Flange 150#, 300#, 600#, 900#, 1500#, 2500#

Installation

1/2"~36"(15A~900A) Pipe



RESTRICTION ORIFICE

DHRO-MS

Features

Multi hole plate to solve lengthening recovery zone using decompression single hole plate

Material

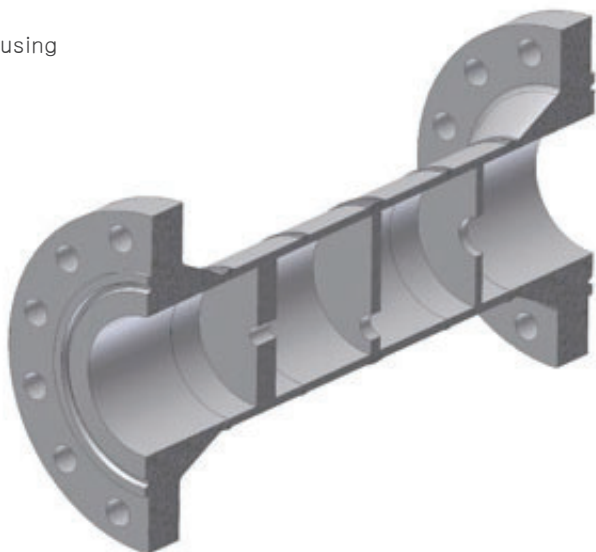
STS304, STS316, Inconel, Monel, Hastelloy

Mounting

Flange 150#, 300#, 600#, 900#, 1500#, 2500#

Installation

1/2"~36"(15A~900A) Pipe



INTEGRAL ORIFICE

INTEGRAL ORIFICE

DHIO-FM

Features

Transmitter, Meter Run All-in-one type

Turndown Ratio

4 : 1

Material

Plate : STS304, STS316, Inconel, Monel, Hastelloy

Flange&Meter Run : C.S, STS304, STS316, Inconel, Monel, Hastelloy, A182 F11, F22, F51

Mounting

Flange 150#, 300#

Installation

1/2"~2-1/2" (15A~65A) Pipe

Regulations

ISO 5167-2

Accuracy

±0.5% Calibrated,
±1~2% Uncalibrated



INTEGRAL ORIFICE

DHIO-BN

Features

Transmitter, Block All-in-one type

Turndown Ratio

4 : 1

Material

STS304, STS316, Inconel, Monel, Hastelloy

Mounting

Flange 150#, 300#, 600#, 900#, 1500#

Installation

1/2"~8" (15A~200A) Pipe

Regulations

ISO 5167-2

Accuracy

±0.5% Calibrated,
±1~2% Uncalibrated



INTEGRAL ORIFICE

DHIO-BY

Features

Transmitter, Meter Run All-in-one type

Turndown Ratio

4 : 1

Mounting

Flange 150#, 300#, 600#, 900#, 1500#, 2500#

Material

Plate : STS304, STS316, Inconel, Monel, Hastelloy

Flange&Meter Run : C.S, STS304, STS316, Inconel, Monel, Hastelloy, A182 F11, F22, F51

Mounting

Flange 150#, 300#, 600#, 900#, 1500#

Installation

1/2B~BB (15A~200A) Pipe

Regulations

ISO 5167-2

Accuracy

±0.5% Calibrated, ±1~2% Uncalibrated



HIGH PRESSURE ORIFICE

HIGH PRESSURE ORIFICE

DHOF-RTJP

Features

For High pressure

Turndown Ratio

4 : 1

Material

Plate : STS304, STS316, Inconel, Monel, Hastelloy

Mounting

Flange 900#, 1500#, 2500#

Installation

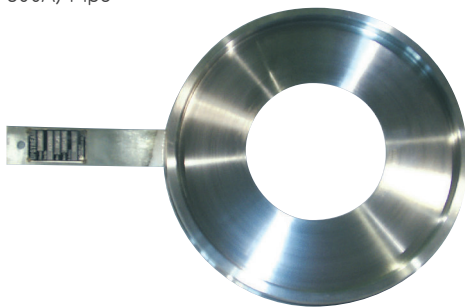
2"~24" (50A~600A) Pipe

Regulations

ISO 5167-2

Accuracy

±0.5%



HIGH PRESSURE ORIFICE

DHOF-RTJF

Features

For High pressure

Turndown Ratio

4 : 1

Material

Plate : STS304, STS316, Inconel, Monel, Hastelloy

Flange : C.S, STS304, STS316, Inconel, Monel, Hastelloy, A182 F11, F22, F51

Mounting

Flange 900#, 1500#, 2500#

Installation

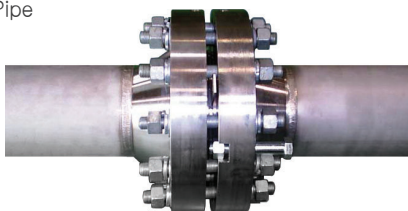
2"~24" (50A~600A) Pipe

Regulations

ISO 5167-2

Accuracy

±0.5% Calibrated,
±1~2% Uncalibrated



HIGH ACCURACY ORIFICE

HIGH ACCURACY ORIFICE

DHOF-H

Features

High accuracy

Turndown Ratio

4 : 1

Material

Plate : STS304, STS316, Inconel, Monel, Hastelloy, Teflon

Flange : C.S, STS304, STS316, Inconel, Monel, Hastelloy, A182 F11, F22, F51

Mounting

Flange 300#, 600#, 900#, 1500#

Installation

2"~24" (50A~600A) Pipe & Duct

Regulations

ISO 5167-2

Accuracy

In less than
± 0.25% Calibrated



VENTURI TUBE

VENTURI TUBE

DHOV-FF, DHIF-V4-FF

Features

Welding sheet plate type, Flange mounting type

Turndown Ratio

4 : 1

Material

Carbon Steel, STS304, STS316, Inconel, Monel, Hastelloy

Mounting

Flange 150#, 300#, 600#, 900#

Installation

1"~8" (25A~600A) Pipe & Duct

Regulations

ISO 5167-4

Accuracy

±0.5% Calibrated,
±1~2% Uncalibrated



VENTURITUBE

DHOV-FW, DHIF-V4-FW

Features

Welding sheet plate type Welding mounting type

Turndown Ratio

4 : 1

Material

Carbon Steel, STS304, STS316, Inconel, Monel, Hastelloy

Mounting

Flange 150#, 300#, 600#, 900#

Installation

More 4" (More 100A) Pipe & Duct

Regulations

ISO 5167-4

Accuracy

±0.5% Calibrated,
±1~2% Uncalibrated



VENTURI TUBE

DHOV-MF, DHIF-V4-MF

Features

Machinery processing type, Flange mounting type

Turndown Ratio

4 : 1

Material

Carbon Steel, STS304, STS316, Inconel, Monel, Hastelloy

Mounting

Flange 150#, 300#, 600#, 900#, 1500#, 2500#

Installation

2"~14" (50A~300A) Pipe

Regulations

ISO 5167-4

Accuracy

±0.5% Calibrated,
±1~2% Uncalibrated



VENTURITUBE

DHOV-MW, DHIF-V4-MW

Features

Machinery processing type, Welding mounting type

Turndown Ratio

4 : 1

Material

Carbon Steel, STS304, STS316, Inconel, Monel, Hastelloy

Mounting

Flange 150#, 300#, 600#, 900#, 1500#, 2500#

Installation

2"~14" (50A~300A) Pipe

Regulations

ISO 5167-4

Accuracy

±0.5% Calibrated,
±1~2% Uncalibrated



VENTURITUBE

DHOV-RE, DHIF-V4-RE

Features

Welding steel plate type, Rectangle

Turndown Ratio

4 : 1

Material

Carbon Steel, STS304, STS316, Inconel, Monel, Hastelloy

Mounting

Duct

Installation

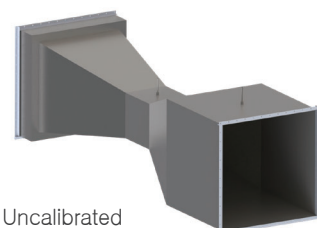
More 6" (more 150A) Duct

Regulations

ISO 5167-4

Accuracy

±0.5% Calibrated, ±1~2% Uncalibrated



VENTURI NOZZLE

VENTURI NOZZLE

DHOV-N-TM

Features

Male screw mounting type

Turndown Ratio

4 : 1

Material

Carbon Steel, STS304, STS316, Inconel, Monel, Hastelloy

Mounting

Screw 1/2"~2" (15A~50A)

Installation

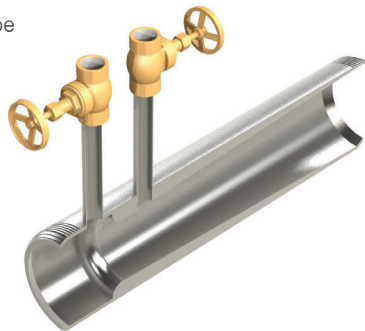
1/2"~2" (15A~50A) Pipe

Regulations

ISO 5167-3

Accuracy

±0.5% Calibrated,
±1~2% Uncalibrated



VENTURI NOZZLE

DHOV-N-BW

Features

Butt welding mounting type

Turndown Ratio

4 : 1

Material

Carbon Steel, STS304, STS316, Inconel, Monel, Hastelloy

Mounting

Butt Weld

Installation

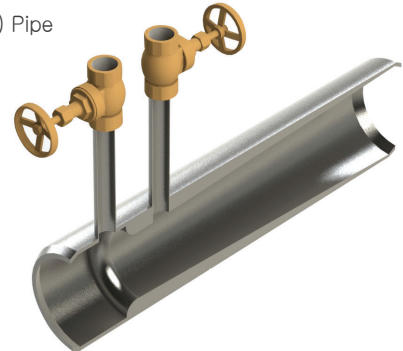
2"~120" (50A~3000A) Pipe

Regulations

ISO 5167-3

Accuracy

±0.5% Calibrated,
±1~2% Uncalibrated



VENTURI NOZZLE

DHOV-N-TF

Features

Female screw mounting type

Turndown Ratio

4 : 1

Material

Carbon Steel, STS304, STS316, Inconel, Monel, Hastelloy

Mounting

Screw 1/2"~2" (15A~50A)

Installation

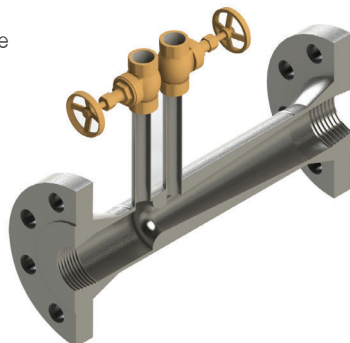
1/2"~2" (15A~50A) Pipe

Regulations

ISO 5167-3

Accuracy

±0.5% Calibrated,
±1~2% Uncalibrated



VENTURI NOZZLE

DHOV-N-FL

Features

Flange mounting type

Turndown Ratio

4 : 1

Material

Carbon Steel, STS304, STS316, Inconel, Monel, Hastelloy

Mounting

Flange 150#, 300#, 600#, 900#, 1500#, 2500#

Installation

2"~120" (50A~3000A) Pipe

Regulations

ISO 5167-3

Accuracy

±0.5% Calibrated,
±1~2% Uncalibrated



FLOW NOZZLE

FLOW NOZZLE

DHON-BW

Features

Butt welding mounting type

Turndown Ratio

4 : 1

Material

A105, F11, F22, F91, F92, 304SS, 316SS

Mounting

Butt Weld

Installation

2"~24" (50A~600A) Pipe

Regulations

ISO 5167-3

Accuracy

±0.5% Calibrated, ±1~2% Uncalibrated



FLOW NOZZLE

DHON-HR

Features

Holding ring mounting type

Turndown Ratio

4 : 1

Material

A105, A182(F11, F22, F91, F92) A182(F304, F316)

Mounting

Butt Weld

Installation

1/2"~24" (15A~600A) Pipe

Regulations

ISO 5167-3

Accuracy

±0.5% Calibrated,
±1~2% Uncalibrated



FLOW NOZZLE

DHON-FL

Features

Flange mounting type

Turndown Ratio

4 : 1

Material

A105, A182(F11, F22, F91, F92), A182(F304, F316)

Mounting

Flange 150#, 300#, 600#, 900#, 1500#, 2500#

Installation

2"~24" (50A~600A) Pipe

Regulations

ISO 5167-3

Accuracy

±0.5% Calibrated,
±1~2% Uncalibrated



WEDGE METER

WEDGE METER

DHWM-F

Features

Suitable for high viscosity & included sludge liquid

Remote Seal Type D/P Transmitter

Turndown Ratio
4 : 1

Material

Carbon Steel, STS304, STS316, Inconel, Monel, Hastelloy, Tungsten carbide coating

Mounting

Flange 150#, 300#, 600#, 900#, 1500#, 2500#

Installation

1/2"~48" (15A~1200A) Pipe

Regulations

ISO 5167-6

Accuracy

±0.5% Calibrated,
±2~4% Uncalibrated

Wedge type

Plate (basic) or solid(option)



WEDGE METER

DHWM-R

Features

Rectangular type (Low pressure loss)

Turndown Ratio

4 : 1

Material

Carbon Steel, STS304, STS316, Inconel, Monel, Hastelloy, Tungsten carbide coating

Mounting

Flange 150#, 300#, 600#, 900#, 1500#, 2500#

Installation

1"~48" (15A~1200A) Pipe

Regulations

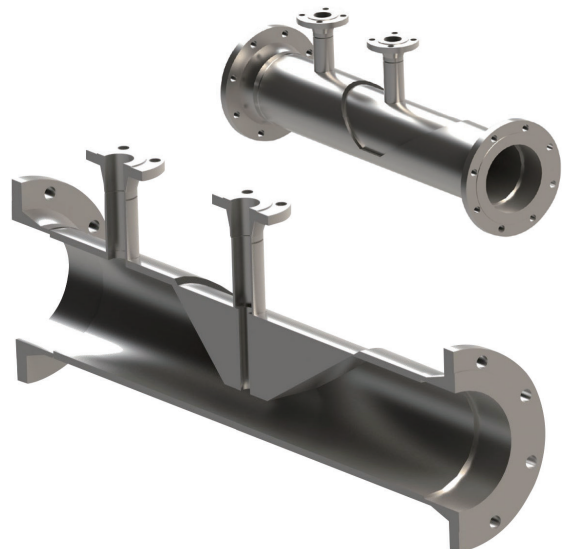
ISO 5167-6

Accuracy

±0.5% Calibrated, ±5% Uncalibrated

Wedge type

Plate (basic) or solid(option)



WEDGE METER

DHWM-T

Features

Suitable for high viscosity & included sludge liquid

Remote Seal chemical Tee Type D/P Transmitter

Turndown Ratio
4 : 1

Material

Carbon Steel, STS304, STS316, Inconel, Monel, Hastelloy, Tungsten carbide coating

Mounting

Flange 150#, 300#, 600#, 900#, 1500#, 2500#

Installation

1/2"~3" (15A~80A) Pipe

Regulations

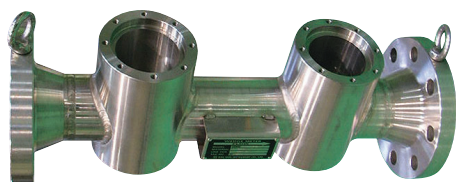
ISO 5167-6

Accuracy

±0.5% Calibrated, ±2~4% Uncalibrated

Wedge type

solid(Basic)



FLOW CONDITIONER & POT

FLOW CONDITIONER

DH19-TB

Features

19 tubes are arranged in pipe in parallel for stability of fluid-flow.

Material

STS304, STS316, Inconel, Monel, Hastelloy

Mounting

Flange 150#, 300#, 600#, 900#, 1500#, 2500#

Regulations

ISO 5167-1



CONDENSATE POT

DHCP

Features

Protect the gauge from steam.

Material

C.S, STS304, STS316, Inconel, Monel, Hastelloy, A182 F11, F22, F51, 91

Size

2B, 2-1 /2B, 3B, 4B

Mounting

1/2SW, 1/2 PT or NPT, 3/4SW, 3/4 PT or NPT



STEADY FLOW METER

STEADY FLOW METER

SFM300

Features

Shank due to turbulent flow on measuring, Built-in type for measuring error-prevention.

Turndown Ratio

6 : 1

Material

Carbon Steel, STS304, STS316, Inconel, Monel, Hastelloy

Mounting

Flange 150#, 300#, Ducts

Installation

More 4" (more 100A) Pipe & Duct

Accuracy

±0.5% Calibrated, ±2% Uncalibrated



STEADY FLOW METER

SFM305

Features

In large duct or pipe case, Insertion type product containing a commutator and flow element for Saving cost and stable measuring

Turndown Ratio

6 : 1

Material

Carbon Steel, STS304, STS316, Inconel, Monel, Hastelloy

Mounting

Insertion Flange 150#, 300#, Ducts

Installation

More 20" (more 500A) Pipe & Duct

Accuracy

±0.5% Calibrated, ±2% Uncalibrated



THERMO COUPLE & RESISTANCE TEMP DETECTOR

THERMOCOUPLE

DTC

Features

Thermocouple shaped sheath pipe

Mounting

Screw & Flange

Range

K=0~1200°C R=600~1600°C Etc=J, T, E, N, B, S

Sheath Material

STS304, STS316, STS310,
STS446, Inconel600, Hastelloy

Regulations

ASTM E230



SHEATH THERMOCOUPLE

DST

Features

Thermocouple shaped MI Cable

Mounting

Screw & Flange

Range

K=0~1200°C R=600~1600°C Etc=J, T, E, N, B, S, R

Sheath Material

STS316, STS310, STS446,
Inconel600, Hastelloy

Regulations

ASTM E230



RESISTANCE TEMPERATURE DETECTOR

DRB

Features

Sensing resistor shaped sheath pipe

Mounting

Screw & Flange

Range

-200~600°C

Element

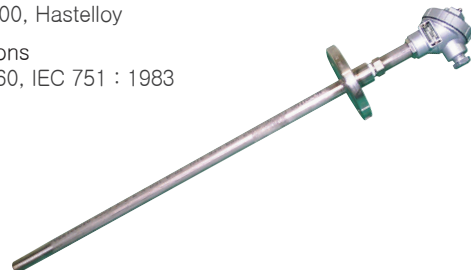
PT100, PT1000 ohm

Sheath Material

STS304, STS316, STS310, STS446,
Inconel600, Hastelloy

Regulations

DIN 43760, IEC 751 : 1983



SHEATH RESISTANCE TEMPERATURE DETECTOR

DSR

Features

Sensing resistor shaped MI Cable

Mounting

Screw & Flange

Range

-200~600°C

Element

PT100, PT1000 ohm

Sheath Material

STS304, STS316, STS310,
STS446, Inconel600, Hastelloy

Regulations

DIN 43760, IEC 751 : 1983



TEMPERATURE TRANSMITTER

TEMPERATURE TRANSMITTER

DHRT

Features

Transmitter containing PT100Ω

Mounting

Screw & Flange

Range

- 200~ 600°C

Sheath Material

STS304, STS316, Inconel600

Power

DC24V

Output

4~20mA 2-Wire



TEMPERATURE TRANSMITTER

DHTC

Features

Transmitter containing thermocouple

Mounting

Screw & Flange

Range

-0~1200°C

Sheath Material

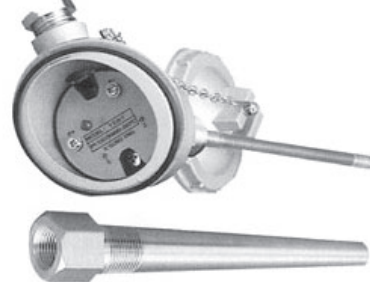
STS304, STS316, Inconel600

Power

DC24V

Output

4~20mA 2-Wire



S-TYPE PITOT TUBE & TEMP ELEMENT

S-TYPE PITOT TUBE & TEMP ELEMENT

DHS-DSR-001



TEMP' ELEMENT

DSR-003



INSTRUMENT RING & DRIP RING

INSTRUMENT RING

Functions

- Instrument rings are required for flange-mounted and sandwich type remote if the danger exists that the process conditions and the geometry of the connection could make the medium into deposits or blockages.
- The Instrument ring is clamped between the process flange and the remote seal.
- Deposits can be flushed away from the diaphragm through the holes in the size, or the pressure volume can be vented.

- Different nominal sizes and forms permit adaptation to the respective process flange

Features

- Flange standards : ANSI B 16.5, DIN 2526
- Marked with standard, model number, series number.

Material

304ss, 316ss, 321ss, Alloy C-276, Duplex SS, etc.



DRIP RING

Functions

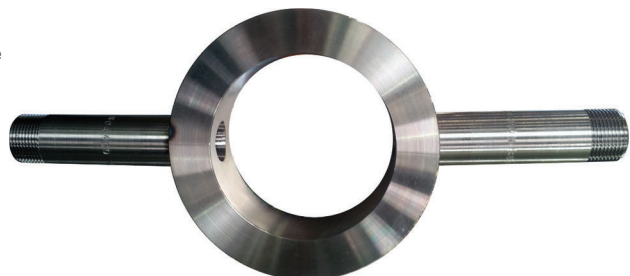
- Drip rings are required for flange-mounted and sandwich type remote if the danger exists that the process conditions and the geometry of the connection could make the medium into deposits or blockages.
- The Drip ring is clamped between the process flange and the remote seal.
- Deposits can be flushed away from the diaphragm through the holes in the size, or the pressure volume can be vented.
- Different nominal sizes and forms permit adaptation to the respective process flange.

Features

- Flange standards : ANSI B 16.5, DIN 2526
- Marked with standard, model number, series number.

Material

304ss, 316ss, 321ss, Alloy C-276, Duplex SS, etc.





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