

Selection and ordering data

Order No.

Metering pipe for mounting between flanges for non-corrosive media

7 ME 1 3 1 0 - - 1

Orifice plate with annular chambers
mounted between flanges

Sealing faces to the mating flanges: plane

Nominal diameter acc. to EN
DN 10

- PN 10 and PN 16
- PN 25 and PN 40
- PN 63
- PN 100

1 AC
1 AE
1 AF
1 AG

DN 15

- PN 10 and PN 16
- PN 25 and PN 40
- PN 63
- PN 100

1 BC
1 BE
1 BF
1 BG

DN 20

- PN 10 and PN 16
- PN 25 and PN 40

1 CC
1 CE

DN 25

- PN 10 and PN 16
- PN 25 and PN 40
- PN 63
- PN 100

1 DC
1 DE
1 DF
1 DG

DN 32

- PN 10 and PN 16
- PN 25 and PN 40

1 EC
1 EE

DN 40

- PN 10 and PN 16
- PN 25 and PN 40
- PN 63
- PN 100

1 FC
1 FE
1 FF
1 FG

DN 50

- PN 10 and PN 16
- PN 25 and PN 40
- PN 63
- PN 100

1 GC
1 GE
1 GF
1 GG

Nominal diameter acc. to ASME
½ inch

- Class 150
- Class 300
- Class 600

5 BA
5 BB
5 BC

¾ inch

- Class 150
- Class 300
- Class 600

5 CA
5 CB
5 CC

1 inch

- Class 150
- Class 300
- Class 600

5 DA
5 DB
5 DC

1¼ inch

- Class 150
- Class 300
- Class 600

5 EA
5 EB
5 EC

Selection and ordering data

Order No.

Metering pipe for mounting between flanges for non-corrosive media

7 ME 1 3 1 0 - - 1

1½ inch

- Class 150
- Class 300
- Class 600

5 FA
5 FB
5 FC

2 inch

- Class 150
- Class 300
- Class 600

5 GA
5 GB
5 GC

Special version

Specify order code and plain text

9 AA 0 0

H 1 Y

Nominal diameter: ..., nominal pressure: ...
material no.: ... and material name: ...

Material for non-corrosive media

Orifice disk made of material no. 1.4404; support ring and flange made of material no. 1.0460, pipes and tapping sockets made of material number 1.0345; permissible operating temperature -10 to +400 °C

3 2

Material for corrosive media

Orifice disk, support rings, pipes and flange made of material no. 1.4404; permissible operating temperature -10 to +400 °C

3 4

Tapping sockets

with threaded connection G½; for liquids and gases PN 160, for steam PN 100

- Opposite one another, straight
- Opposite one another, bent-up, for vertical pipelines
- Arranged on one side, for horizontal pipelines

A
B
C

With threaded connection ½-14 NPT male; for liquids and gases PN 160, for steam PN 100

- Opposite one another, straight
- Opposite one another, bent-up, for vertical pipelines
- Arranged on one side, for horizontal pipelines

Q
R
S

With pipe Ø 12 mm for pipe union with ferrule, max. 200 °C permissible

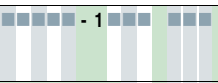

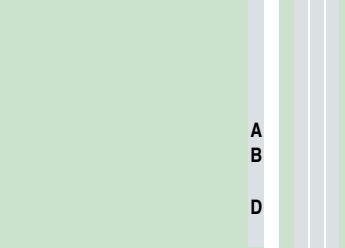
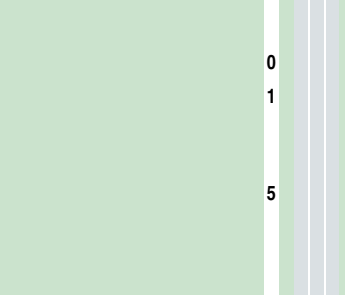
- Opposite one another, straight
- Opposite one another, bent-up, for vertical pipelines
- Arranged on one side, for horizontal pipelines

J
K
L

With welding connection Ø 21.3 mm for liquids and gases PN 100 ... PN 400, for steam PN 100

- Opposite one another, straight
- Opposite one another, bent-up, for vertical pipelines
- Arranged on one side, for horizontal pipelines

D
E
F

Selection and ordering data	Order No.	Selection and ordering data	Order code
Metering pipe for mounting between flanges for non-corrosive media	7 ME 1 3 1 0 -  - 1 	Further designs Add "-Z" to order no. and specify order code(s) and plain text.	
Shape of orifice disk aperture For flow in one direction (see figure "Shapes of orifice disk aperture") <ul style="list-style-type: none"> • Orifice plate form A • Quarter-circle nozzle form B For flow in both directions <ul style="list-style-type: none"> • Cylindrical orifice plate form D 		With Siemens calculation protocol Specify in plain text: No.: ... e. g. no.: 110025240101, Attach calculation protocol to the order	Y21
Manufactured according to pressure equipment directive None ¹⁾ According to Article 3, Paragraph 3 Design data Y31 to Y35 necessary According to category 1, 2 with CE marking and EC declaration of conformity Design data Y31 to Y35 necessary		With third-party calculation Specify in plain text: No.: ... Attach calculation protocol to the order	Y22
		Orifice plate without calculation Specify in plain text: Diameter of orifice disk aperture d = ... mm Internal diameter of pipe D=... mm Radius of quarter-circle nozzle r = ... mm	Y01
		Design data according to Pressure equipment directive 97/23/EC	
		Name of medium Specify in plain text: Medium: e. g. natural gas	Y31
		Aggregate state Specify in plain text: Aggregate state: Liquid or gaseous	Y32
		Fluid group Specify in plain text: Fluid group: Group 1: hazardous explosive fluid or Group 2: All other fluids	Y33
		Max. permissible pressure Specify in plain text: PS = ... in bar or PSI	Y34
		Max. permissible temperature Specify in plain text: TS = ... in °C or °F	Y35
		Orifice plate degreased for oxygen measurements <ul style="list-style-type: none"> • DN 10 (½") ... DN 50 (2") 	A12
		Material certificate Acceptance test certificate to EN 10204-3.1	C02
		Cold water pressure test 1.5 x PN, with acceptance test certificate EN 10204	D11

Note on ordering

The "calculation protocol" released by the customer with order code Y21 or Y22 must be attached to the order as an attachment or the statement "orifice plate without calculation" will be made with order code Y01.

Scope of delivery:

Orifice plate, comprising two support rings with tapping sockets and one orifice disk, with gaskets between orifice disk and support ring, including screws and bolts.
 Graphite (99.85%) flat gasket with foil insert (1.4401, 0.1 mm).
 Application for liquids, steam, gases, liquid gases, acids, hydrocarbons, oils and oil products.

Accessories:

See "SITRANS P measuring instruments for pressure".