

Selection and ordering data

Order No.

Order code

Orifice plate with annular chambers

7 ME 1 1 1 0 - 1

for mounting between flanges

Sealing faces to the mating flanges: plane.

Nominal diameter acc. to EN
DN 50

PN 6	1 GA
PN 10 ... PN 40	1 GE
PN 63	1 GF
PN 100	1 GG

DN 65

PN 6	1 HA
PN 10 ... PN 40	1 HE
PN 63	1 HF
PN 100	1 HG

DN 80

PN 6	1 JA
PN 10 ... PN 40	1 JE
PN 63	1 JF
PN 100	1 JG

DN 100

PN 6	2 AA
PN 10 and PN 16	2 AC
PN 25 and PN 40	2 AE
PN 63	2 AF
PN 100	2 AG

DN 125

PN 6	2 BA
PN 10 and PN 16	2 BC
PN 25 and PN 40	2 BE
PN 63	2 BF
PN 100	2 BG

DN 150

PN 6	2 CA
PN 10 and PN 16	2 CC
PN 25 and PN 40	2 CE
PN 63	2 CF
PN 100	2 CG

DN 200

PN 6	2 EA
PN 10 and PN 16	2 EC
PN 25	2 ED
PN 40	2 EE
PN 63	2 EF
PN 100	2 EG

DN 250

PN 6	2 FA
PN 10	2 FB
PN 16	2 FC
PN 25	2 FD
PN 40	2 FE
PN 63	2 FF
PN 100	2 FG

DN 300

PN 6	2 GA
PN 10	2 GB
PN 16	2 GC
PN 25	2 GD
PN 40	2 GE
PN 63	2 GF
PN 100	2 GG

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DN 350

PN 6	2 HA
PN 10	2 HB
PN 16	2 HC
PN 25	2 HD
PN 40	2 HE
PN 63	2 HF
PN 100	2 HG

DN 400

PN 6	2 JA
PN 10	2 JB
PN 16	2 JC
PN 25	2 JD
PN 40	2 JE
PN 63	2 JF

DN 500

PN 6	2 KA
PN 10	2 KB
PN 16	2 KC
PN 25	2 KD
PN 40	2 KE

DN 600

PN 6	3 AA
PN 10	3 AB
PN 16	3 AC
PN 25	3 AD

DN 700

PN 6	3 BA
PN 10	3 BB
PN 16	3 BC
PN 25	3 BD

DN 800

PN 6	3 CA
PN 10	3 CB
PN 16	3 CC
PN 25	3 CD

DN 900

PN 6	3 DA
PN 10	3 DB
PN 16	3 DC
PN 25	3 DD

DN 1000

PN 6	3 EA
PN 10	3 EB
PN 16	3 EC
PN 25	3 ED

Nomin. diameter acc. to ASME
2 inch

Class 150	5 GA
Class 300	5 GB
Class 600	5 GC

2½ inch

Class 150	5 HA
Class 300	5 HB
Class 600	5 HC

3 inch

Class 150	5 JA
Class 300	5 JB
Class 600	5 JC

4 inch

Class 150	6 AA
Class 300	6 AB

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Class 600 6 A C

5 inch

Class 150 6 B A

Class 300 6 B B

Class 600 6 B C

6 inch

Class 150 6 C A

Class 300 6 C B

Class 600 6 C C

8 inch

Class 150 6 E A

Class 300 6 E B

Class 600 6 E C

10 inch

Class 150 6 F A

Class 300 6 F B

Class 600 6 F C

12 inch

Class 150 6 G A

Class 300 6 G B

Class 600 6 G C

14 inch

Class 150 6 H A

Class 300 6 H B

Class 600 6 H C

16 inch

Class 150 6 J A

Class 300 6 J B

Class 600 6 J C

20 inch

Class 150 6 K A

Class 300 6 K B

Class 600 6 K C

24 inch

Class 150 7 A A

Class 300 7 A B

Class 600 7 A C

Special version

Specify order code and plain text 9 A A 0 0 H 1 Y

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

Material for non-corrosive media

Support rings made of 1 2

P265GH, material no. 1.0425; tapping sockets made of P235GH, material no. 1.0345; orifice disk made of material no. 1.4404, permissible operating temperature -10 to +400 °C

Material for corrosive media

Support rings, tapping sockets and orifice disk made of X 2 CrNiMo 17-12-2, material No. 1,4404; permissible operating temp. -10 to +400 °C 1 5

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Tapping sockets

with threaded connection G $\frac{1}{2}$; for liquids and gases PN 160, for steam PN 100

- Opposite one another, straight A

- Opposite one another, bent-up, for vertical pipelines B

- Arranged on one side, for horizontal pipelines C

With threaded connection $\frac{1}{2}$ -14 NPT male

- Opposite one another, straight Q

- Opposite one another, bent-up, for vertical pipelines R

- Arranged on one side, for horizontal pipelines S

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

- Opposite one another, straight J

- Opposite one another, bent-up, for vertical pipelines K

- Arranged on one side, for horizontal pipelines L

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

- Opposite one another, straight D

- Opposite one another, bent-up, for vertical pipelines E

- Arranged on one side, for horizontal pipelines F

Shape of orifice disk aperture

For flow in one direction (see figure "Shapes of orifice disk aperture")

- Orifice plate form A A

- Quarter-circle nozzle form B B

For flow in both directions

- Cylindrical orifice plate form D D

Manufactured according to pressure equipment directive

None¹⁾ 0

According to Article 3, Paragraph 3 1

Design data Y31 to Y35 necessary

According to category 1, 2, 3 with CE marking and EC declaration of conformity 5

Design data Y31 to Y35 necessary

1) Only possible outside Europe

Selection and ordering data	Order code
Further designs Add "-Z" to order no. and specify order code(s) and plain text.	
With Siemens calculation protocol Specify in plain text: No.: ... e. g. no.: 110025240101, Attach calculation protocol to the order	Y21
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	
• DN 50 (2") ... DN 150 (6")	A12
• DN 200 (8") ... DN 400 (16")	A13
• DN 500 (20") ... DN 1000 (40")	A14
Material certificate Acceptance test certificate to EN 10204-3.1	C01
Cold water pressure test 1.5 x PN, with acceptance test certificate EN 10204	D11
Orifice disk including gasket	on request
Sealing face of orifice plate with recess or groove	on request

Note on ordering

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

Scope of delivery

Two support rings with tapping sockets, one orifice disk, one gasket between orifice disk and support ring.
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".