1. ..... 1

2. ..... 1

3. ..... 2

4. ..... 12

1 ..... 14

2 ..... 16

3 ..... 17

1.

2.

LUGB LUCB

# 3.

## 3.1

LUGB DN10-DN500
LUCB DN200-DN2000
: LUGB 1.0 1.5 0.5 0.2
LUCB 2.5 1.5 1.0 )
2 3 4 5 6 7
: LUGB DN10 DN200 PN25
DN250 DN500 PN16
LUGB DN10 DN80 900L
DN100 DN200 900L
DN250 DN500 PN10
LUCB DN200 DN2000 PN16

GB/T 9124.1-2019; ANSI/ASME/DIN/JIS/KS.....

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| LUGB | -200 | +80 | -40 | +150 | -40 | +260 | -40 | +320 | -40 | +420 |
| LUCB | -40 | +150 | -40 | +200 | | | | | | |

-20 +60 -20 +40
5 95 RH
86kPa 106kPa
20:1
IP65 IP67 IP68

304 316 316L

2 7 D

## 3.2

24VDC ± 5% 3.6VDC 24VDC 3.6V

1. ≤ 1V, ≥ 6V
2. ≤ 1V, ≥ 6V
3. 4-20mA ≤ 300Ω

RS485 HART

--
-- 128*64

LUGB LUCB ( mm)

| DN | H1[a] | H1[b] | H1[c] | H2[a] | H2[b] | H2[c] | H3[a] | H3[b] | H3[c] | H4[a] | H4[b] | H4[c] | H5[b] | H5[c] | H6 | H7 | H8[b] | H8[c] | D1 | D2 | D3 | L1 | L2 | L3 | L4 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | | 441 | | 338 | 428 | 508 | | | | | | | | | | | | | 90 | | | 54 | 200 | | |
| 15 | | 445 | | 340 | 430 | 510 | | | | | | | | | | | | | 95 | | | 54 | 200 | | |
| 20 | | 450 | | 345 | 435 | 515 | | | | | | | | | | | | | 100 | | | 54 | 200 | | |
| 25 | | 451 | | 350 | 440 | 520 | | | | | | | 468 | 548 | | | 428 | | 100 | 60 | | 54 | 200 | | 275 |
| 32 | | 456 | | 362 | 452 | 532 | | | | | | | 481 | 561 | | | 432 | | 105 | 65 | | 54 | 200 | | 275 |
| 40 | 345 | 435 | 515 | 378 | 468 | 548 | 400 | 490 | 570 | 428 | 518 | 598 | 518 | 598 | | | 477 | 557 | 92 | 92 | | | | | |

LUGB.....

LUCB.....

A. LUGB

1.

2.

3.

B.

1.

4.

2.

3.

C 0.

| LUGB | | | LUCB | |
|---|---|---|---|---|
| C | | | 0 | |
| 0+ | 10mm | | 020 | 200mm |
| 00 | 15mm | | 025 | 250mm |
| 01 | 20mm | | 030 | 300mm |
| 02 | 25mm | | 035 | 350mm |
| 03 | 32mm | | 040 | 400mm |
| 04 | 40mm | | 045 | 450mm |
| 05 | 50mm | | 050 | 500mm |
| 06 | 65mm | | 060 | 600mm |
| 08 | 80mm | | 070 | 700mm |
| 10 | 100mm | | 080 | 800mm |
| 12 | 125mm | | 085 | 850mm |
| 15 | 150mm | | 090 | 900mm |
| 20 | 200mm | | 100 | 1000mm |
| 25 | 250mm | | 150 | 1500mm |
| 30 | 300mm | | 160 | 1600mm |
| 35 | 350mm | | 170 | 1700mm |
| 40 | 400mm | | 180 | 1800mm |
| 45 | 450mm | | 190 | 1900mm |
| 50 | 500mm | | 200 | 2000mm |

50mm,

D.

0.

1. 4-20mA

2.

3.

4. 4-20mA

5.

E.

0. -40 ~+150

1. -40 ~+260 LUCB 200

2. -40 ~+320 LUCB

3B -40 ~+420

4. -200 ~+80 LUGB

IP65 IP67

S LUGB-**05s

4. 1.5 LUCB

I.

0.

1. ≤10

2.

J.

0. 12VDC

1. 24VDC

2. 3.6V

3. 3.6V 24VDC

K.

0.

1.

2.

3.

4.

L. LUGB

0.

1. ≥320

M.

0.

1. RS485

2. RS232

N. HART

0. HART

1. HART

P. LUCB

0.

1.

Q.

0.

1.

R. LUCB

0. 1.6MPa

1. 2.5MPa >2.5 MPa

: 1

3.3.3.LUGB

1 0.5
1.5 0.8
2 -200 ~+80 DN10-DN32 3
0.8 DN40-DN500 1.5 0.8

LUGB

| | 500 kg/m³ | 600 kg/m³ | 700 kg/m³ | 800 kg/m³ | 900 kg/m³ | 1000 kg/m³ | 1200 kg/m³ | 1400 kg/m³ | 1600 kg/m³ | 1800 kg/m³ | Qmax ( m³/h) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Qmin | | m³/h | | | |
| DN10 | 0.30 | 0.28 | 0.24 | 0.21 | 0.19 | 0.15 | 0.14 | 0.13 | 0.12 | 0.11 | 2.0 |
| DN15 | 0.60 | 0.50 | 0.47 | 0.37 | 0.36 | 0.35 | 0.30 | 0.28 | 0.26 | 0.24 | 4.5 |
| DN20 | 1.15 | 1.00 | 0.98 | 0.90 | 0.80 | 0.60 | 0.58 | 0.56 | 0.54 | 0.52 | 8.0 |
| DN25 | 1.30 | 1.20 | 1.10 | 1.05 | 1.00 | 0.90 | 0.82 | 0.76 | 0.71 | 0.68 | 12 |
| DN32 | 1.90 | 1.80 | 1.70 | 1.62 | 1.56 | 1.50 | 1.45 | 1.35 | 1.20 | 1.00 | 20 |
| DN40 | 3.50 | 3.20 | 3.00 | 2.80 | 2.60 | 2.28 | 2.20 | 2.10 | 2.00 | 1.90 | 32 |
| DN50 | 4.70 | 4.30 | 3.9 | 3.70 | 3.60 | 3.50 | 3.00 | 2.80 | 2.60 | 2.50 | 50 |
| DN65 | 7.10 | 6.50 | 6.30 | 6.20 | 6.10 | 6.00 | 5.00 | 4.50 | 4.20 | 4.00 | 84 |
| DN80 | 11 | 10 | | | | | | | | | |

kg/m³

| | 130 | 140 | 150 | 160 | 170 | 180 | 190 | 210 | 220 | 250 | 300 | 360 | 420 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.10MP | 1.10 | 1.07 | 1.04 | 1.02 | 0.99 | 0.97 | 0.95 | 0.91 | 0.89 | 0.83 | 0.76 | 0.69 | 0.63 |
| 0.15MP | 1.38 | 1.34 | 1.34 | 1.28 | 1.24 | 1.21 | 1.19 | 1.13 | 1.11 | 1.04 | 0.95 | 0.86 | 0.78 |
| 0.26MP | | 1.96 | 90 | 1.85 | 1.81 | 1.76 | 1.72 | 1.64 | 1.61 | 1.51 | 1.37 | 1.24 | 1.13 |
| 0.30MP | | | 12 | 2.067 | 2.01 | 1.96 | 1.92 | 1.83 | 1.79 | 1.68 | 1.53 | 1.38 | 1.26 |
| 0.36MP | | | 46 | 2.39 | 2.33 | 2.27 | 2.21 | 2.11 | 2.06 | 1.94 | 1.76 | 1.59 | 1.45 |
| 0.40MP | | | | 2.61 | 2.54 | 2.47 | 2.41 | 2.30 | 2.25 | 2.11 | 1.91 | 1.73 | 1.57 |
| 0.50MP | | | | 3.16 | 3.07 | 2.99 | 2.91 | 2.77 | 2.71 | 2.54 | 2.30 | 2.07 | 1.89 |
| 0.60MP | | | | | 3.61 | 3.51 | 3.42 | 3.25 | 3.18 | 2.97 | 2.69 | 2.42 | 2.21 |
| 0.70MP | | | | | | 4.05 | 3.94 | 3.74 | 3.65 | 3.41 | 3.09 | 2.78 | 2.53 |
| 0.80MP | | | | | | 4.59 | 4.46 | 4.23 | 4.13 | 3.85 | 3.48 | 3.13 | 2.84 |
| 0.90MP | | | | | | 5.15 | 4.99 | 4.73 | 4.61 | 4.30 | 3.88 | 3 | |
| 1.00MP | | | | | | | 5.54 | 5.23 | 5.09 | 4.75 | 4.28 | 3.84 | 3 |
| 1.15MP | | | | | | | 6.37 | 6.00 | 5.84 | 5.43 | 4.88 | 4.37 | |
| 1.50MP | | | | | | | | 7.87 | 7.64 | 7.05 | 6.30 | | 5.10 |
| 1.65MP | | | | | | | | 8.70 | 8.43 | 7.76 | 6.92 | | 5.59 |
| 1.80MP | | | | | | | | 9.55 | 9.24 | 8.48 | 7.55 | 2 | 6.08 |
| 2.00MP | | | | | | | | | 10.36 | 9.47 | 8.39 | 5 | 6.74 |
| 2.20MP | | | | | | | | | 11.51 | | 9.24 | 0 | 7.40 |
| 2.50MP | | | | | | | | | | | 10.55 | 2 | |

3.3.5 LUCB

$Qmin=3600*Vmin*(\pi*D^2/4)$ ---------- 5

$Qmax=3600*Vmax*(\pi*D^2/4)$ ---------- 6

$QNmin=Qmin*[(P+P)*(273.15+T)]/[P*Z*(273.15+T)]$ ------- 7

$QNmax=Qmax*[(P+P)*(273.15+T)]/[P*Z*(273.15+T)]$-------- 8

$\rho=\rho_n[(P+P)*(273.15+T)]/[P*Z*(273.15+T)]$ ---------- 9

Qmin -- $m^3/h$

Qmax -- $m^3/h$

Vmin -- m/s

Vmax -- m/s

D ----- m

π ----- 3.1415926535898

QNmin - $m^3/h$

QNmax - $m^3/h$

T --- 0 20

T ---

P --- 0.101325MPa

P --- MPa

Z ----- Z=Z /Z

ρ ----- $kg/m^3$

$\rho_n$---- $kg/m^3$, 0 20 , 0.101325MPa

9 T $\rho_n$

P -- MPa

LUCB

1. ρ

2. ρ Vmin Vmax

3. 5 6 Qmin Qmax

4. ρ Qmin Qmax

4.

1.
2.

≤5Ω

φ8

4

1. LUGB LUCB

5

2.

LUGB LUCB 5



1 LUGB

2 LUGB






1

| | | | | | |
|---|---|---|---|---|---|
| | | DN200 DN2000 (mm) | | -40～+150<br>-40～+200 | 1.<br>2. DN100 |
| | | DN10 500 (mm) | | -40～+150 | 1. |
| | | DN25 500 (mm) | | | |
| | | DN200 DN2000 (mm) | | -40～+260 | 2. ≤ 10 |

| (mm) | (MPa) | D(mm) | K(mm) | ¢(mm) | N( ) | H(mm) |
|---|---|---|---|---|---|---|
| DN10 | 1.0/1.6/2.5 | 90 | 60 | 14 | 4 | 14 |
| DN15 | 1.0/1.6/2.5 | 95 | 65 | 14 | 4 | 14 |
| DN20 | 1.0/1.6/2.5 | 105 | 75 | 14 | 4 | 16 |
| DN25 | 1.0/1.6/2.5 | 115 | 85 | 14 | 4 | 16 |
| DN32 | 1.0/1.6/2.5 | 140 | 100 | 18 | 4 | 18 |
| DN40 | 1.0/1.6/2.5 | 150 | 110 | 18 | 4 | 18 |
| DN50 | 1.0/1.6/2.5 | 165 | 125 | 18 | 4 | 20 |
| DN65 | 1.0/1.6/2.5 | 185 | 145 | 18 | 8 | 20/20/22 |
| DN80 | 1.0/1.6/2.5 | 200 | 160 | 18 | 8 | 20/20/24 |
| DN100 | 1.0/1.6/2.5 | 220/220/235 | 180/180/190 | 18/18/22 | 8 | 22/22/26 |
| DN125 | 1.0/1.6/2.5 | 250/250/270 | 210/210/220 | 18/18/26 | 8 | 22/22/28 |
| DN150 | 1.0/1.6/2.5 | 285/285/300 | 240/240/250 | 22/22/26 | 8 | 24/24/30 |
| DN200 | 1.0/1.6/2.5 | 340/340/360 | 295/295/310 | 22/22/26 | 8/12/12 | 24/26/32 |
| DN250 | 1.0/1.6/2.5 | 395/405/425 | 350/355/370 | 22/26/30 | 12/12/12 | 26/29/35 |
| DN300 | 1.0/1.6/2.5 | 445/460/485 | 400/410/430 | 22/26/30 | 12/12/16 | 26/32/38 |
| DN350 | 1.0/1.6/2.5 | 505/520/555 | 460/470/490 | 22/26/33 | 16/16/16 | 30/35/42 |
| DN400 | 1.0/1.6/2.5 | 565/580/620 | 515/525/550 | | | |

3

| (mm) | (MPa) | D1(mm) | D2(mm) | K(mm) | ¢(mm) | N( ) |
|---|---|---|---|---|---|---|
| DN10 | 1.0/1.6/2.5 | 14 | 90 | 60 | 14 | 4 |
| DN15 | 1.0/1.6/2.5 | 19 | 95 | 65 | 14 | 4 |
| DN20 | 1.0/1.6/2.5 | 26 | 100 | 70 | 14 | 4 |
| DN25 | 1.0/1.6/2.5 | 33 | 100 | 75 | 14 | 4 |
| DN32 | 1.0/1.6/2.5 | 39 | 105 | 80 | 14 | 4 |
| DN40 | 1.0/1.6/2.5 | 49 | 150 | 116 | 18 | 4 |
| DN50 | 1.0/1.6/2.5 | 60 | 160 | 124 | 18 | 4 |
| DN65 | 1.0/1.6/2.5 | 76 | 175 | 138 | 18 | 4 |
| DN80 | 1.0/1.6/2.5 | 90 | 204 | 164 | 20 | 4 |
| DN100 | 1.0/1.6/2.5 | 109 | 234 | 192 | 22 | 6 |
| DN125 | 1.0/1.6/2.5 | 134 | 250 | 205 | 22 | 6 |
| DN150 | 1.0/1.6/2.5 | 163 | 280 | 232 | 22 | 6 |
| DN200 | 1.0/1.6/2.5 | 220 | 340 | 286 | 24 | 8 |
| DN250 | 1.0/1.6/2.5 | 274 | 390 | 338 | 24 | 8 |
| DN300 | 1.0/1.6/2.5 | 327 | 450 | 393 | 26 | 12 |
| DN350 | 1.0/1.6/2.5 | 377 | 510 | 460 | 26 | 16 |
| DN400 | 1.0/1.6/2.5 | 426 | 565 | 510 | 26 | 16 |
| DN450 | 1.0/1.6/2.5 | 482 | 620 | 565 | 30 | 16 |
| DN500 | 1.0/1.6/2.5 | 534 | 685 | 620 | 33 | 20 |

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