

8

“

”

2019

2006

2020

2025

“

”

2019

“

”

1.

1.1

/

3

1

/

≥ 3

$\geq 90\%$

-50 300

1%

$\pm 100g$ $\pm 300g$ $\pm 500g$

1

1%

0 100kN 0

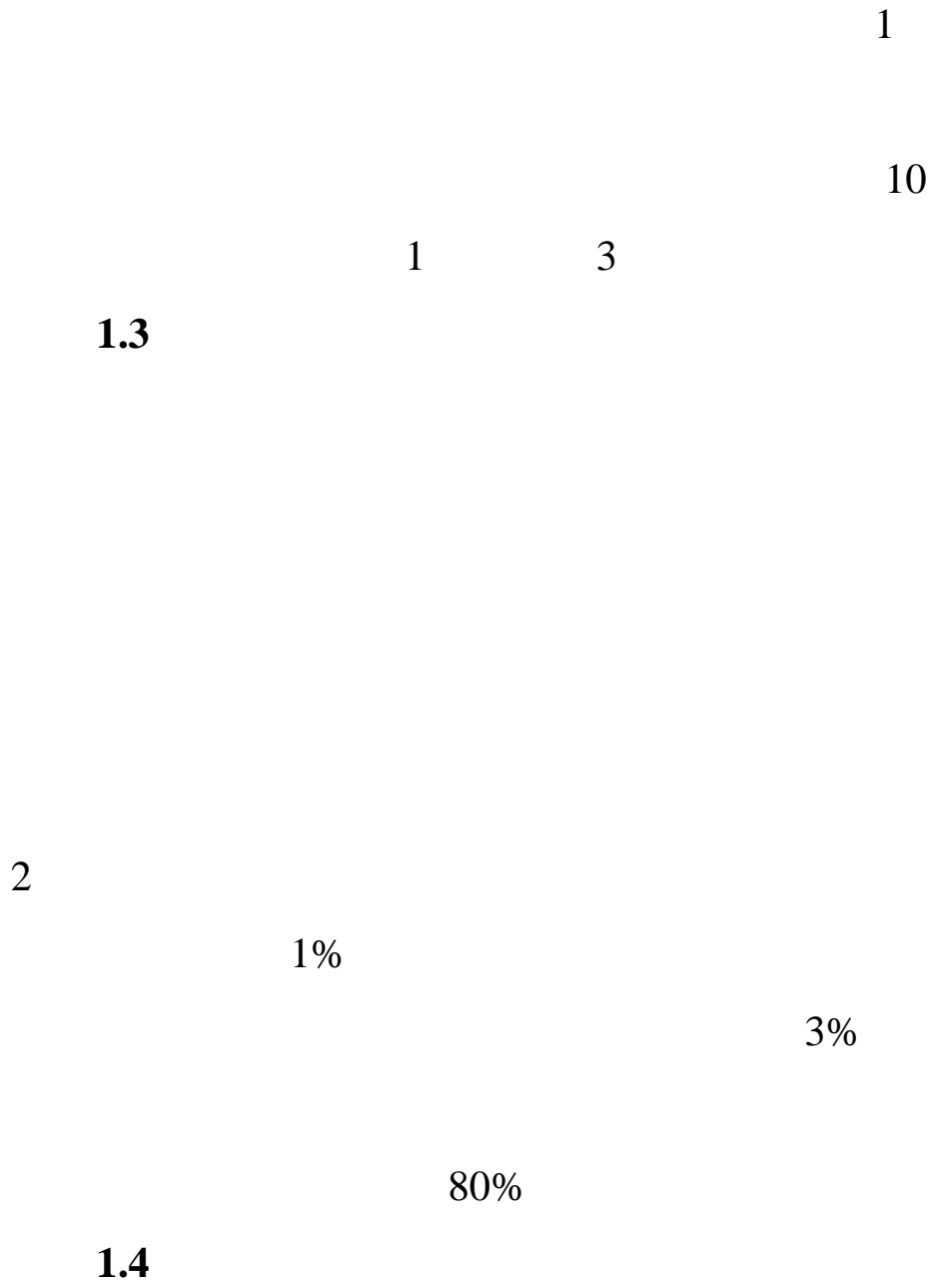
500kN 0 1000kN

1

1%

2% 3%

1.2



1

1

85%

1

90%

1.5

3

5

60

20%

1.6

1Hz 500Hz

$\geq 400\mu\text{W}/\text{mm}^2$

$\geq 5\mu\text{W}/\text{mm}^3 \text{ g}^2$

$\geq 0.5\mu\text{W}/\text{mm}^3 \text{ g}^2$

1.7

$X \times Y \times Z \geq 100\text{mm} \times 100\text{mm} \times 50\text{mm}$

1nm

E3 $250 + 4.5 \times 10^{-6}L$ nm

100 μm

2.

2.1

1

RV

P4

≥ 6000

P4

≥ 8000

80mm 260mm

≥ 1 5

≥ 6

2.2

≥ 1 4MW P5
 ≤ 85 ≥ 20
2 10
200mm 1180mm
 ≥ 1

2.3

4
 $\leq 5\text{mL/r}$ $\leq 5\text{L/min}$
0.5ms 1.5ms 2
1

2.4

250mm 650mm
 ≥ 500 ≥ 5000
2
2.5

$\leq 1\mu\text{m}$ $\text{Ra} \leq 0.1\mu\text{m}$ 5%
250m/s 500
25MPa 50000r/min
2.6

$\geq 8000\text{rpm}$ 2
 $\geq 450\text{kW/kg}$

5		$\geq 96\%$	20%	
		1		
1				
2.7				/
				1
	50mm	200mm	$\geq 5m$	
4mm	12mm		$\leq \pm 1HRC$	$\leq 1mm/m$
		1	≤ 1150	
	$\leq \pm 5$		$\leq 5 \times 10^{-1} Pa/h$	
$\leq \pm 2HRC$				
	$\leq \pm 1.5HRC$			$\pm 0.03mm$
2.8				

6

-190

$\leq 0.5\text{mg/m}^3$

$\geq 95\%$

3

2.9 MEMS

MEMS

MEMS

≥ 20 1

10 μm

300 μm

$\leq 0.5\%$ $k=1$

2 μm ~30 μm

$\leq 1\%$ $k=1$

$\leq 5\text{s}$

2.10 MEMS

MEMS

MEMS

MEMS

MEMS

$\geq 150\text{mm}$

$\geq 5\mu\text{m}$

$\leq \pm 3\%$

$\leq 150\text{MPa}$

MEMS

$\geq 500\text{mA}$

$\leq 500\text{m}\Omega$

$\geq 1 \times 10^6$

≥85%

2.11

1800°C	≤±1.5%FS	≤10ms	-60°C
	20°C 40°C	≤1μK/	

2.12 MEMS

MEMS

MEMS

ASIC

NDIR

		0 5000ppm	
	0 100ppm	0 50ppm	0
100ppm	0 100ppm	≤±2%	
≤20mm×10mm×5mm		≤1%FS/	

≥2

2.13

ASIC

100mV/V/Oe

$\leq 10\text{pT}/@1\text{Hz}$

$\leq 30\text{mm} \times 30\text{mm} \times 5\text{mm}$

$\geq 85\%$

0.02°

≥ 2

2.14

/

16

32

HART FF Profibus

100

2.15

$\pm 1\%FS$

30

1500

0 0.3MPa

2.16

30m

$\leq 10ppm$

$\leq 0.03^\circ$

2m/s

2.17

≥ 6

≥ 6

$\geq 90\%$

MAC

2.18

/

SIL2

SL2

$\geq 90\%$

3.

3.1

1

1

$\geq 1 \times 10^6 \text{ N m}$

≥ 32

$\geq 90\%$

3.2

—

— —

30kg 10cm² 3000cm² 0.05kg

≥220MPa ≥8% ≥280MPa ≥CT6 5

3.3

≥185MPa ≥5% ≥1.5m 300

CT7 8 I

≤10kPa ≥250MPa ≥10%

3

3.4

100mm/s

$\geq 99\%$ 2

5