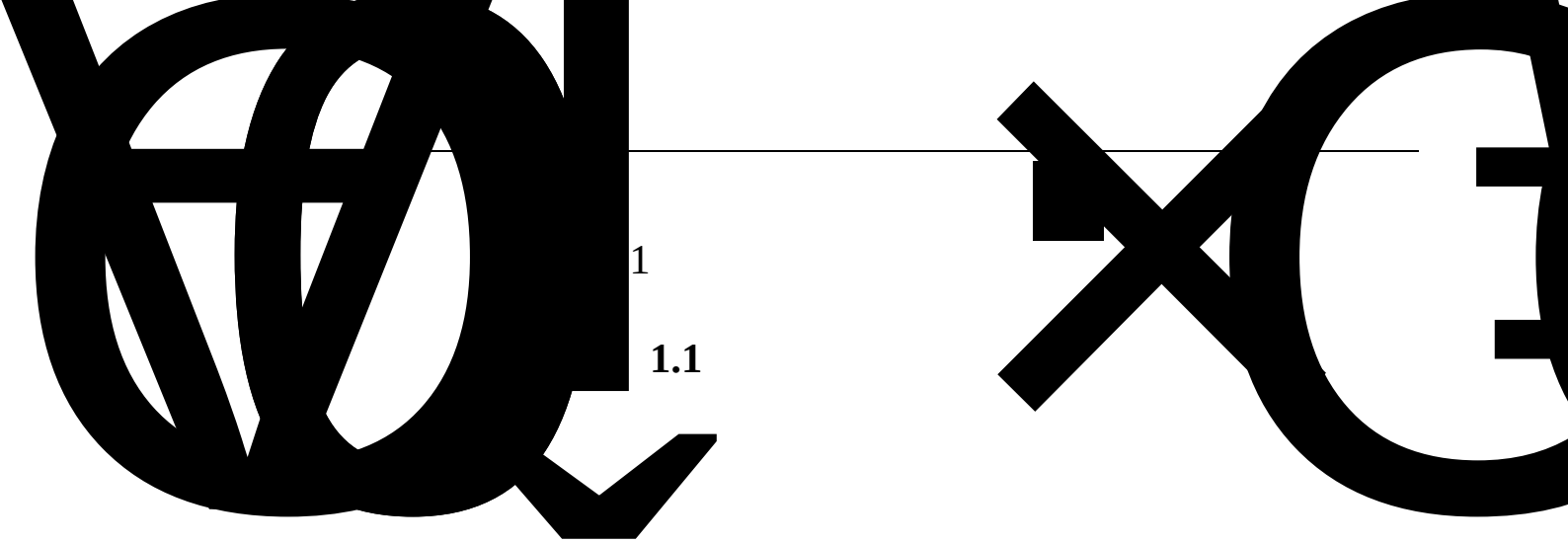


1

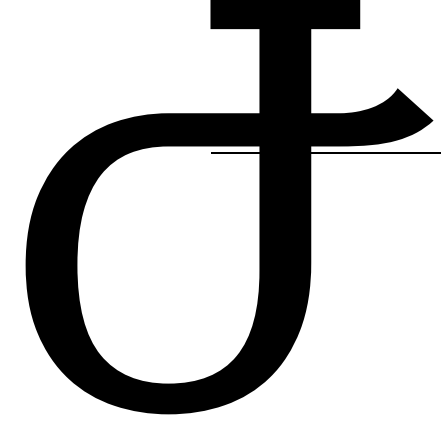
1.1

È

1.2

1.3

1.4



১১

2

2.1

42

2.2

1 1 420m

5 6 1.6m 4.5m 0.2m

0.6m 2 4

6

7

2.3

2.3.1

SF

SS SF

FF

SF FRP

24h

SF Ä Ä

”“ ”

Ψ

2.4

2.4.1

2F

29.3m 43m 5.4m

25

56.8m 44m

21.4m

2.42

1531.93m^2

2.4.3

2 30m^3 SF 4 30m^3

SF 180m^3

2.5

2.5.1

$ "ã˜bx9 Ô"é

0.2m 0.6m

6m

6.2m

5.8m

5.9

3

4 φ16

18m

1m

5

6

1.5m

7

8

1Ω

9 B

10 TN-C-S

11 10

12

2.6.5

8

0.8L/h 3.5mm

10 /h

2.6.7

5kg 16 35kg

2 5 5 2m^3 5

2.7

2.7-1

2.7-2

2.7-1

				m^2			
1				189.98			
2				420			6m

2.7-2

1		2	V=30m^3, Q235-B				SF
2		4	V=30m^3, Q235-B	/			SF
3		2	Q=5~50L/min			)	z

12		1	TCC-1	-	6
13		1	-	-	
14		1	STC-1	-	
15		1	-	-	1 1 8
16		1	-	-	

2.8

8 1 1

6 424 3 2

3

3.1

2015

ɖ l’

6					
7					
8					

3.4 “ ”

C

4-1

1 ! א

5

5-1

5-1

1			
2			
		G.M	
3			
4			

6

6.1

6.1-1

6.1-1

6.2.2

$Q_{TNT}=C_0 \cdot V \cdot \rho \cdot k \cdot H_C / q_{TNT}$

Q_{TNT} TNT kg

C_0 $L_X/0.55$

L_X % 0.55

V $30m^3$

ρ 4

H_C 43000kJ/kg

q_{TNT} TNT 4500kJ/kg

K 1

$Q_{TNT}=1.3\%/0.55*30*4*1.29*1*43000/4500=34.97kg$

$Q_{TNT}=0.6\%/0.55*30*4*1.29*1*43000/4500=16.14kg$

2 G·M

G•M

$$P = 0.8(\frac{R}{\sqrt[3]{Q_{TNT}}})^{-3}$$

$$R = \left(0.8Q_{TNT} / P\right)^{1/3}$$

P MPa

R m

Q_{TNT} 34.97kg

3

6.3-1 6.3-2

6.3-1

P MPa		P MPa	
0.02 0.03		0.05 0.10	
0.03 0.05		>0.1	

6.3-2

P_0/MPa	P_0/MPa
0.005 0.006	0.06 0.07
0.006 0.015	0.07 0.10
0.015 0.02	0.10 0.20

0.02 5

0.015 0.02		12.54 11.49	0.10 0.20		7.06 5.64
0.02 0.03		11.49 10.13	0.20 0.30		5.64 4.97
0.03 0.05		10.13 8.69			

2

6.3-3 6.3-4 0.02MPa

0.005MPa 11.18m

17.75m

7

7.1

7.1.1

7.1.3

1

8.3

35.2

-28.2

28.2

-15.7

2

70.5%

82%

54%

3

101.6Kpa

4

658mm

5

4.6m/s

25.7m/s

6

23.4d

7

15.0cm

1.17m

8

7

0.10g

1

7

7

2

—

10^6V/m ,

—

20000

SF

7.2-1

7.2-1

1
2

8

8.1

8.1.1

1

5.0.1

2 GB 50156-2021

5.0.2

3 GB 50156-2021

5.0.3

4 GB 50156-2021

5.0.5 “ ”

5 GB 50156-2021

5.0.8

6 GB 50156-2021

5.0.9

7 GB 50156-2021

5.0.10

2 6.1.5 -

-

95%

10 6.1.16

2

1 6.2.2

50L/min

2 6.2.3

3 6.2.4

4 6.2.5

5 6.6.2

3

1 6.3.1

2 6.3.2

3 6.3.3

4 6.3.4

100mm

5 6.3.5

6 6.3.6

7 6.3.7

1

50mm

1.0 1.2

25mm

8 6.3.8

50mm 100mm

45° T

150mm 200mm

200mm

9 6.3.9

4m

10 6.3.10

50mm

11 6.3.11

2kPa 3kPa

1.5kPa 2kPa

12 6.3.12

GB/T 8163

4mm

4mm

$10^{8}\Omega\cdot m$

$10^{10}\Omega$

100kV

13 6.3.13

$10^{8}\Omega\cdot m$ $10^{10}\Omega$

14 6.3.14

15 6.3.15

2‰

1%

16 6.3.16

6.3.15

1%

17 6.3.17

0.4m

1 12.1.1

2 2 5kg 1 5kg

1 6L 2 2

1 35kg

15m

5 2m³

2 12.3.2

0.25m

0.25m

3 12.3.3

1

1 13.1.1

2 13.1.3

90min

3 13.1.5

4 13.1.6

5 13.1.7

GB50058

6 13.1.8

IP44

7 4.5.1

8 4.5.2

9 4.5.3

3.5m

10 4.5.5

11 3.2.5

3.2.5

12 5.3.2

100mm

50mm

100m

100mm 50mm

2

1 13.2.1

2 13.2.2

4Ω

3 13.2.4

30Ω

10 13.2.11

11 13.2.12

5

12 13.2.13

13 13.2.14

14 13.2.15

100Ω

15 13.2.16

1

16 GB

50169-2016 4.2.9

3

1 13.4.4

in

3

4

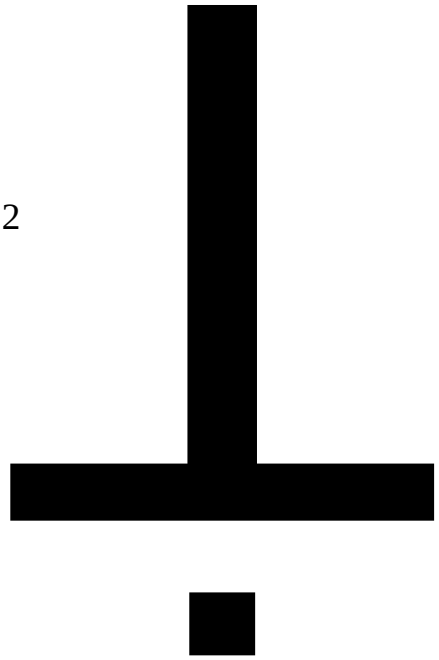
13.5.2

5

2 14.1.5

2

1 1 14.2.1 .2.‰



2 14.2.2

4.5m

2m

2

0.6m

4 GB 50156-2021 14.2.4

GB 50016

5 14.2.7

14.1.4

6 14.2.9

7 14.2.10

300m^2

8 14.2.11

B

GB50016

9 14.2.12

3h

10 14.2.14

5.0.13

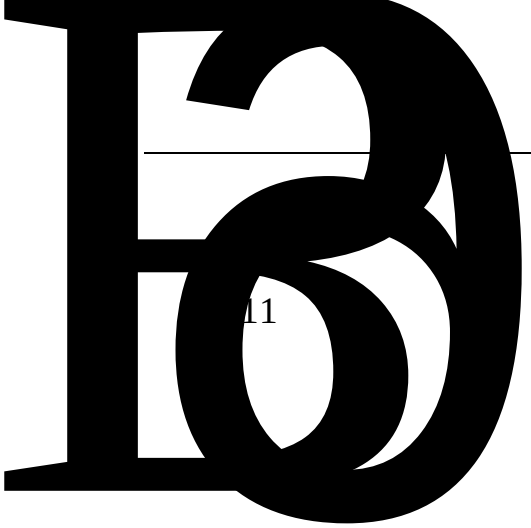
5		15.2.1
6		15.2.9
	GB 50517	
7		15.2.10

35kPa

30min

2

8		15.2.12
9		15.5.7
	3	2
10		15.5.15



11	1 1	
	GB 50171	
12	15.7.2	
GB 50168		
13	15.7.3	
	GB 50303	
14	15.7.4 ‘lwĘpĕe@?ô	

24

25 4.4

GB/T2893.5 GB2894 GB13495.1 GB15630

26 4.5

27 5.1.6

28

9

9.1

10

A

PC-TWA	mg/m^3	300

1.5

5

1 30

2

3

ť

õ ả Ǹ ȧ

1

2

$0.5m^3$

100m

5

15min

C.0.1.2

1674

-18 =1 0.79~0.84

300~365

5 0 -10 60

-20 50 -35 -50 45

15min

6					
7					
8					

C.0.2.1

1

70m

6 46

2

xx x x

xx x x

C.0.2.2

1

2

C.0.2.3

C.0.2.4

2

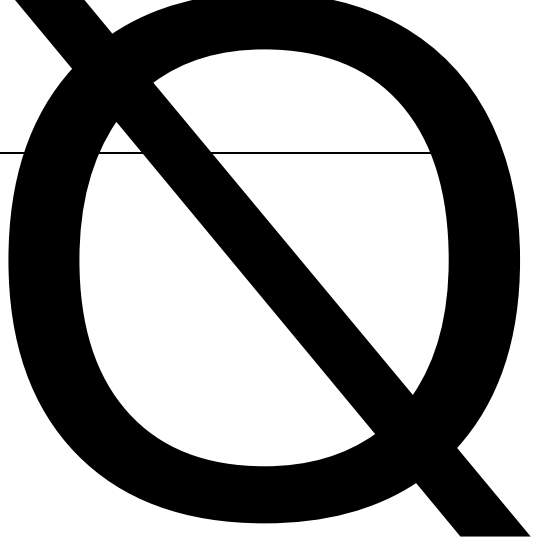
C.0.2.8

2m 2m

C.0.3

1

2



$S=q_1/Q_1+q_2/Q_2\ldots\ldots+q_n/Q_n\geq 1$

S…

q_1 q_2… q_n

Q_1 Q_2…Q_n

1

200t

$60m^3$ 0.75

45t 5000t

$120m^3$ 0.89 106.8t

$45/200+106.8/5000=0.24636<1$

C.0.4

C.0.4.1

1

2004 1

ضخ

221L

“ ”

2

100%

C.0.5

GB 50156-2021

C.0.5-1

1

GB50156-2021
3.0.4

2 L-GNG
GB50156 3.0.17 GB50156-2021
3.0.17 30m^3

3

GB50156-2021
3.0.25

4 8
GB50156-2021
3.0.27

1

GB50156-2021
4.0.1

2
GB50156 4.0.4 GB50156-2021
4.0.4
2.4-2
2.4-1

3

GB50156-2021
4.0.13

1

GB50156-2021
5.0.1

2
4m 8.4m
6m GB50156-2021

5.0.2

8%

3

C.0.6-2

C.0.6-1

C.0.6-2 (<PHA>)

1

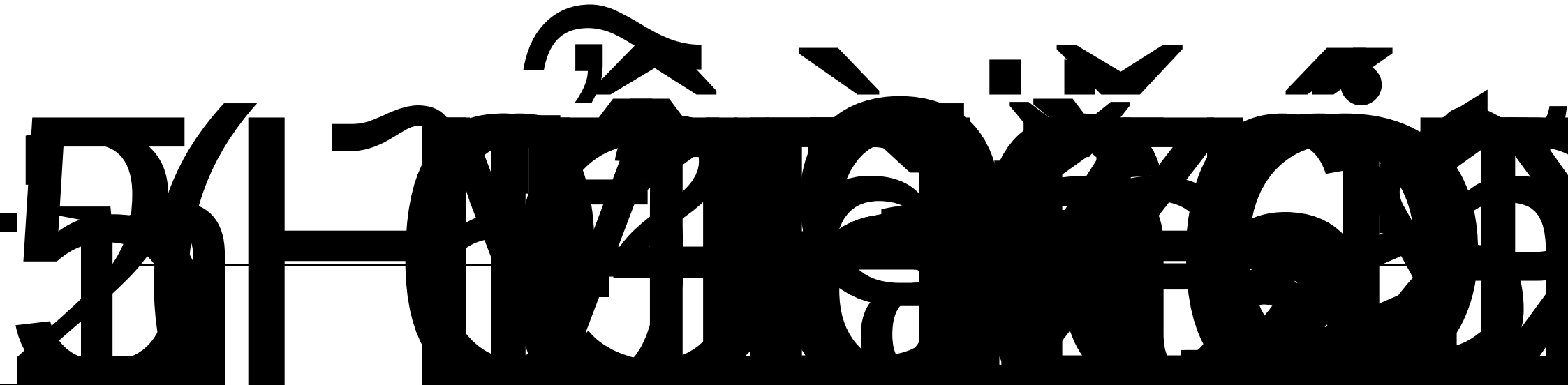
2

5

(

1
2
3
4
5
6

)



2	3	2
	4	3
		4

D

D.0.1

1

2021 9 1

2 2021

4 29

3

2024 11 1

4

2018 12 29

5

2015 1 1

6 708 2019 4

1

7

17

2016 8 2016 2 5

18

2019 62 2019

2022 8 2023 1 1

42 2015

2022 300

2022 12 5

43

2022 317 2022 12 20

D.0.3

1 GB 50156-2021

2 GB 19147-2016

3 E10 GB 18351-2017

4 GB 50016-2014 2018

5 GB 30871-2022

6 GB 30077-2023

7 GB 55036-2022

8 YJ/T 9009-2015

9 GB 6441-1986

10 GB 50140-2005

11 GB 12158-2024

12 GB 50395-2007

13 AQ 3009-2007

14 AQ 3010-2022

15 GB 2894-2008

16 GB/T

13861-2022

17 (GBZ/T 230-2010)

18 GB/T 50610-2010

19 GB 50057-2010

20 GB 6944-2025

21

GB 50171-2012

22 GB 50009-2012

23 GB 50343-2012

24 GB 12268-2025

25 1 GB/T 30040.1-2013

26 2 GB/T 30040.2-2013

27 3

GB/T 30040.3-2013

28 4

GB/T 30040.4-2013

29 5

GB/T 30040.5-2013

30 6

GB/T 30040.6-2013

31 7

GB/T 30040.7-2013

32 GB 50058-2014

33 -

SH/T 3178-2015

34 GB 50303-2015

35 GB/T 13955-2017

36 GB/T 35579-2017

37 GB 18218-2018

38 GB/T 8163-2018

39 GB/T 21447-2018

40 GB 50168-2018

41 1 1 GBZ 2.1-2019/XGI-2022

42 2 GBZ 2.2-2007

43 1 GB/T 22380.1-2017

44 2 GB/T 22380.2-2019

45 GB 50068-2018

46 GB/T 50484-2019

47 YJ/T 9007-2019

48 GB 20952-2020

49 GB/T 29639-2020

50 AQ 8001-2007

D.0.4

1 2005 4

2

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1 1

2 2

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4 1

5 1

6 1