22

2015 1674 ≤60

2022 8 2023 1 1 1674

2022 12 26

3

1.1 1
1.2 1
1.3 5
1.4 5

2.1 7
2.2 7
2.3 9
2.4 13
2.5 13
2.6 13
2.7 16

3.1 19
3.2 20
3.3 25

4.1 30
4.2 30

1.

1.1

1.2

1.2.1.

1 2021 9 1

2 2024 11 1

Ì 3 591 2013

8 16

2008 2 1

9 44 2015 5

29 80 2015 7 1

10 55

2015 3 23 79 2015 7 1

11 2 2019 9 1

12 4 2025 9 1

13 2025 5

2025 1 27

14 < >

2021 12 2021 12 31

2022 6 2022 4 2

15 “ ”

2025 4 2025 2 10

16

2016 8 2016 2 5

17 2015

2015 5 2015 5 1

18 < 2015 > “1674 [≤60]”

“1674 ”

2022

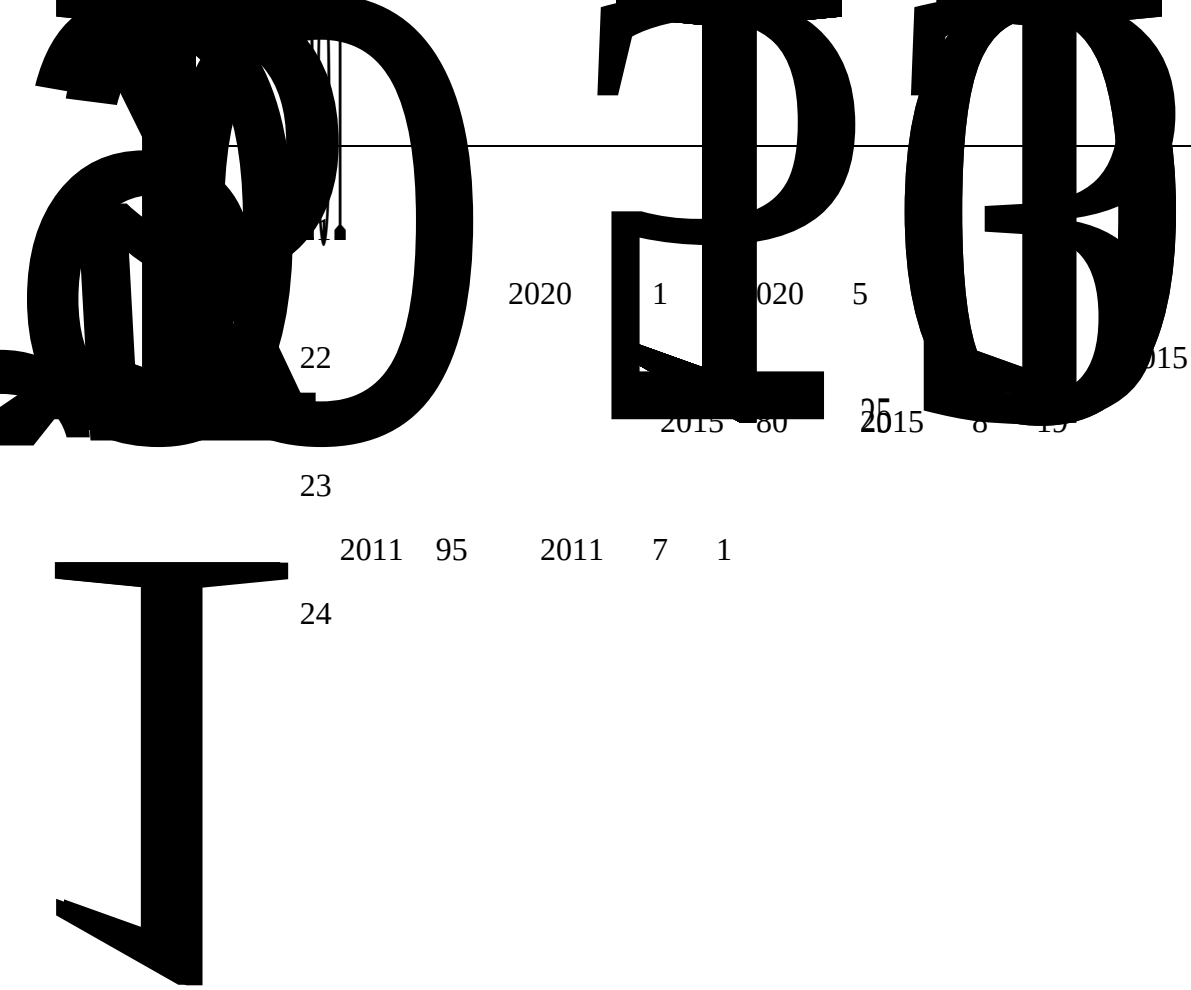
8 2023 1 1

19 < 2015 >

2022 300 2023 1 1

20

2022 317 2022 12 20



2020 1 020 5

22 015

2013 80 2015 8 19

25

23

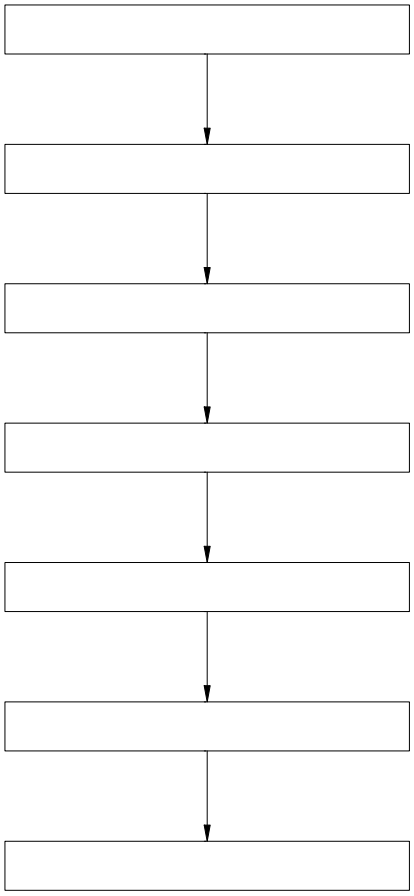
2011 95 2011 7 1

24

1.2.2.

1	GB50156-2021
2	GB 6944-2025
3	GB 12268-2025
4	GB 18218-2018
5	GB

ь `Н ″



1-1

2.

FF 5 d 1 1 1

67%

7 78%

1 61%

3

101.2kPa

103.9kPa

96.9kPa

4

755.4mm

997.3mm

520.5mm

178.8mm

42.6mm

5

250.0mm

6

3.2m/s

23m/s

7

28.3d

42d

8

7

1.40m

2.3

2860m^2

15m

10m

5 “ L ”

12m 0.2m 1.2m 0.6m

6m

9.5m

12.7m 19.5m 14m

0.9m 0.5m

4m

2-1

2-1 2-2

2-1 m

				㎜	㎜
				5.5	29
				5.5	28.5
				8.5	32
				11	37
				14	64.5
				5	23
				5	25
				7	20
				10.5	25.5
				11	58
				5	59
				5	34
				7	36
				10.5	18.5
				11	48
				3	26
				3	28.5
				6	32
				9	46.5
				6	77
				5	23
				5	25
				7	40
				10.5	45.5
				11	82
				3	59
				3	35
				6	36
				9	18.5
				6	48
				5	59
				5	34
				7	42
				10.5	18.5
				11	48

2-2 m

	0.5	0.5	0.5	0.5	-	-	-	-	-	-	-	-	-	-	2	32
	0.5	0.5	0.5	0.5	-	-	-	-	-	-	-	-	-	-	2	32
	-	-	-	-	-	-	-	-	-	-	-	-	3	6	2	36
	-	-	-	-	-	-	-	-	-	-	-	-	2	6	2	36
	4	9.5	3	19	4	12.7	3.5	12.7	5	15	5	23	5	19.5	-	-
	8.5	15	6	35	7	11.5	6	11.5	7	22	6	40	-	-	-	-

2.4

2-3

2-3

1	3	368.82m^2	-
2		540m^2	H=6m
3		180m^2	--

5min

92 ~

1.0 1.2

1

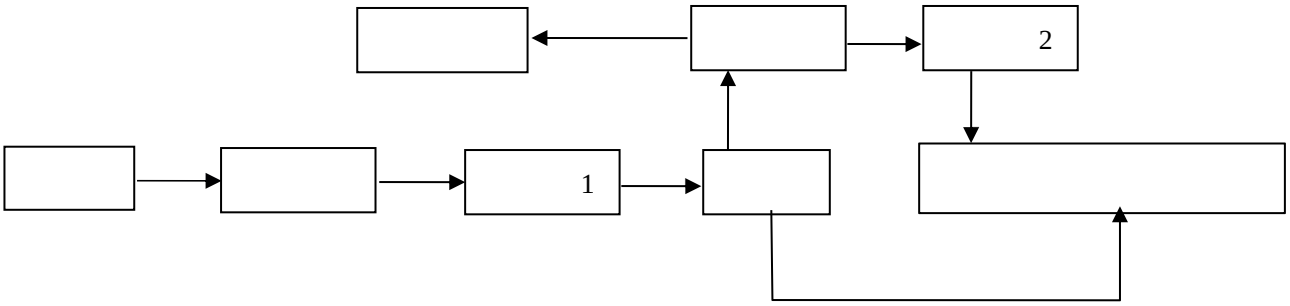
2

/

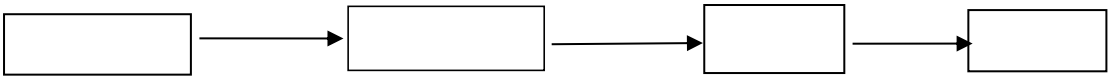
1%

4m

2-2



2-4



2-5

2.7

2.7.1

1

91210113MA105QFP75

22

2024 12 3

2

[2022]000808

22

2022 12 26 2025 12 25

3

(1062017007)][2025]0106ZSY134

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6

10 5kg 10

5kg 8 2kg CO_2 8 35kg

2 $2m^3$ 5kg 2

7

16 6

9 3m 1

4m

3.

3.1

3.1.1

GB18218-2018

1

2

3.1.2

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—— t

PC-TWA mg/m^3 300

1

2

3

1.5

4

1 30

2

З

50m

300m

1674

-18 =1 0.87 0.9

282-338

0.6%~7.2%

5 0 -10 60 -20

50 -35 -50 45

15min

3.3.1

1

70m

6 46

2

1987 2 4

1986 5 2

3

4

3.3.2

1

2

4.

4.1

8

1

2

3

4

5

6

7

8

4.2

5.

7

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18

19

1

2

3

1 Σ Σ % î
Σ

5-3

1

GB50156-2021
3.0.4

2

GB50156-2021
GB 50966 3.0.5

3 GB
50156 3.0.15 GB50156-2021 $30m^3$
3.0.9

4

GB50156-2021
3.0.25

16

5

GB50156-2021
3.0.27

1

GB50156-2021
4.0.1

		4.0.12		
	5	GB50156-2021 4.0.13		
	1	GB50156-2021 5.0.1		
	2 4m 6m 9m 8%	GB50156-2021 5.0.2	12m 8%	
	3	GB50156-2021 5.0.3		
	4 “ ” “ ”	GB50156-2021 5.0.5	“ ” “ ”	
	5	GB50156-2021 5.0.8		
	6 14.2.10 300m^2	GB50156-2021 5.0.9		
	7 4.0.4 “ ” “ ”	GB50156-2021 5.0.10		
	8			

GB50156-2021

5.0.11

9

2.2m

4.0.4 1.5 25m

GB50156-2021

5.0.12 2-1

4.0.4

10

GB50156 5.0.13-1 GB50156-2021

5.0.13 2-2

11 5.0.13-1

5.0.11

	3	GB50156-2021 6.2.3		
	4	GB50156-2021 6.2.4		
	5	GB50156-2021 6.2.5		
	6 “ ”	GB 50156-2021 6.6.1	“ ”	
	7	GB 50156-2021 6.6.2		
	8 6.2 1 2 3 4 5	GB 50156-2021 6.6.4		
	9	GB 50156-2021 6.6.5		
	10 1 2 3 4	GB 50156-2021 6.6.6		

5

1

GB50156-2021
6.3.1

2

GB50156-2021
6.3.2

3

GB50156-2021
6.3.3

4

100mm GB50156-2021
6.3.4

50mm 50mm

1.0 1.2

25mm

25m

11

2kPa~3kPa GB50156-2021

1.5kPa~2kPa 6.3.11

12

GB50156-2021

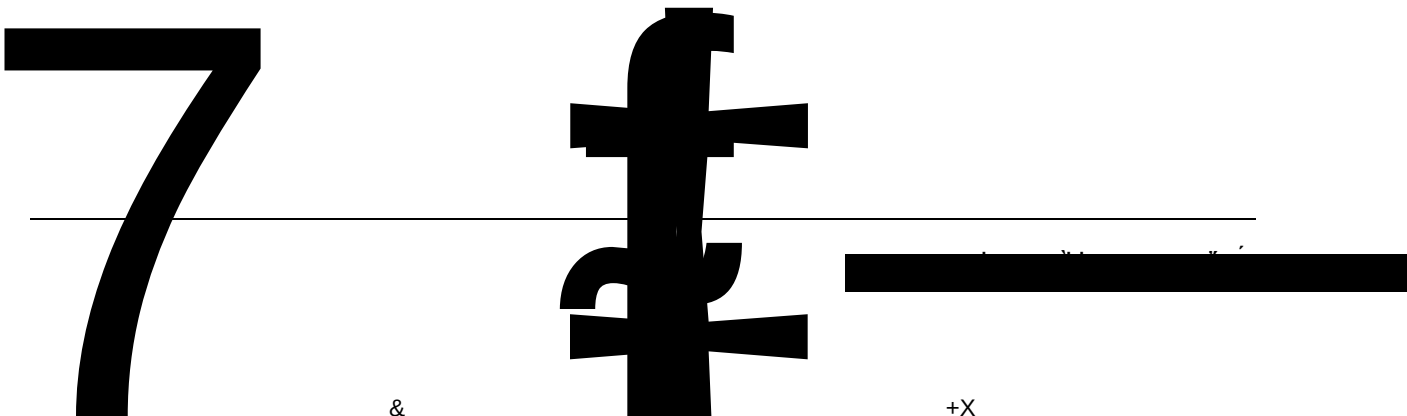
6.3.13

13

GB50156-2021

6.3.14

14



		GB50156-2021 6.5.1		
	20 GB 50108 200mm 500mm	GB50156-2021 6.5.2	FF	
	21 100mm 4mm 200mm 10mm 30mm	GB50156-2021 6.5.3	FF	
	22	GB50156-2021 6.5.4		
	23 6.3	GB50156-2021 6.5.5		

	5mm 5%			
	24 3.5mm	GB50156-2021 6.5.6	3.5mm	

5-5

	1 2 2 5kg 1 5kg 1 6L 2 2 1 35kg 15m 5 $2m^3$ 2 $2m^3$	GB50156-2021 12.1.1	10 5kg 10 35kg 2 $2m^3$	
	2 GB50140	GB50156-2021 12.1.2	5kg 8 2kg CO_2 8 5kg	

5-6

1

GB50156-2021

13.1.1

8			IP44
	4	6	
		1.8	
1			FF
2		GB50156-2021	
		13.2.1	
2			
		GB50156-2021	
	4Ω	13.2.2	
3	LPG		
		GB50156-2021	
		13.2.4	
4			

7 380/220V TN-S

380V TN-C-S

GB50156-2021

13.2.9

8

GB50156-2021

30Ω

13.2.10

9

GB50156-2021

13.2.11

10

5 GB50156-2021

13.2.12

11

GB50156-2021

13.2.13

12

GB50156-2021

13.2.14

13

5-7

	1 140kW 2m	GB50156-2021 14.1.3		
	2 12 5 300cm²/m² 2	GB50156-2021 14.1.4		
	3	GB50156-2021 14.1.5		
	1	GB50156-2021 14.2.1		
	2 4.5m 2m	GB50156-2021 14.2.2	6m GB50009 GB/T50011	

	GB50068 GB50009 GB/T 50011			
	3 0.15 0.2m 1.2m 0.6m 100mm 0.5m	GB50156-2021 14.2.3	1.2m 0.2m 0.6m	
	4 GB 50016	GB50156-2021 14.2.4		
	5	GB50156-2021 14.2.7		
	6	GB50156-2021 14.2.9		
	7 300m^2	GB50156-2021 14.2.10		
	8 B GB50016	GB50156-2021 14.2.11		
	9			

	3h	GB50156-2021 14.2.12	3h	
	10	GB50156-2021 14.2.13		
	11 5.0.13 25m 3.0h	GB50156-2021 14.2.14		
	12	GB50156-2021 14.2.15		
	13	GB50156-2021 14.2.16		
	1	GB50156-2021 14.3.1		

5-8

	1			
	2			

3 “

11

12

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14

UPS

15

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“ ” “

” “ ”

4

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6 “ ” “
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2018 74

12

7.

1.

GB50058-2014

1 0

2 1

3 2

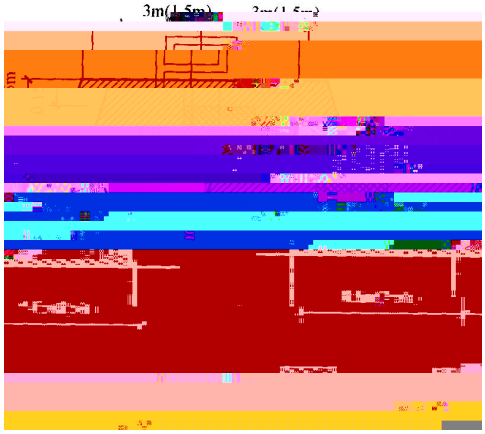
2. 1

3. 1

1 1

2 4.5m

0.15m 3m 2



1

4. 2

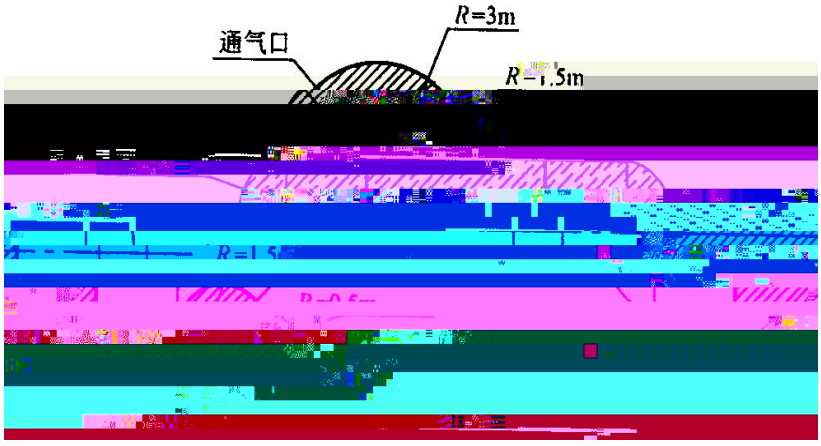
1 0

2 1.5m 0.5m

1

3 3m

1.5m 2



2

5. 3

1 0

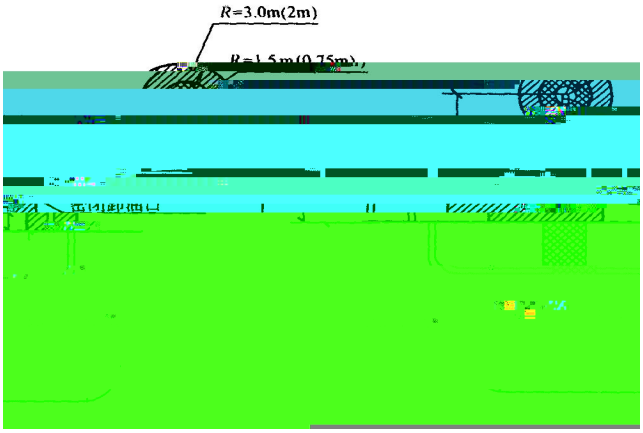
2 1.5m 0.75m

0.5m 1

3 1.5m 1m

3m 2m 1.5m

2



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