

---

2015

1674

60

2022 8

2023 1 1

1674

2023 3 21

3

---

1.	.....	1
1.1	.....	1
1.2	.....	1
1.3	.....	1
1.4	.....	5
2	.....	7
2.1	.....	7
2.2	.....	7
2.3	.....	8
2.4	.....	15
2.5	.....	15
2.6	.....	16
2.7	.....	17
3.	.....	20
3.1	.....	20
3.2	.....	21
3.3	.....	26
4.	.....	31
4.1	.....	31
4.2	.....	31
5.	.....	32
6.	.....	59
7.	.....	62
	.....	62
	.....	62

# OST

---

1.2

1.2.1.

1



2021

---

9

16 2008 2 1

10 2 2019 9 1

11

30 2015 5 29 80 2015 7 1

12 44 2015 5

29 80 2015 7 1

13 55

2015 3 23 79 2015 7 1

14 44 2025 6 1

15 4 2025 9 1

16 2025 5

2025 1 27

17

2025 6 2025 05 07

18 “ ”

2025 4 2025 2 10

19 <

> 2021 12 2021 12 31

20

2016 3 2016 4 28

21 2015

2015 5 2015 5 1

22 < 2015 > “ 1674 [ 60 ]”

“ 1674 ”

2022

8 2023 1 1

---

---

23 2015

[2015]80 2015 8 19

24

2020 1 2020 5 30

25

[2011]95 2011 7 1

26

[2011]142 2011 7 1

27

[2016]8 2016 2 5

28

2019 107

2019 10 28

29 341 2021

5 18

30

2017 45 2017 12 23

31 <

> 2017 47 2017 12 28

32

[2012]144 2012 8 30

33 < >

[2017]22 2017 11 28

34 <

> 2017 5 2017 9 13

35

[2016]11 2016 7 6

---

---

36

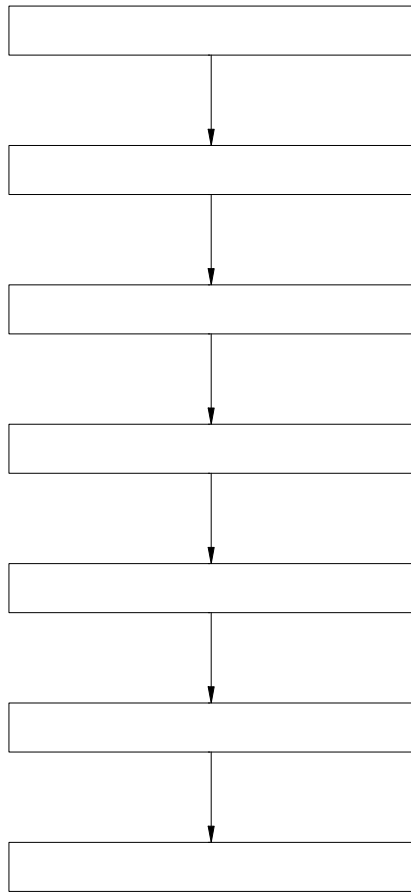
2018 21

2018 8 31

1.2.2.

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





% %

---

2.

2327m<sup>2</sup> SF 4 1 1  
4 1  
4 2 30m<sup>3</sup> 2 30m<sup>3</sup>  
GB50156-2021 3.0.9  
90m<sup>3</sup>

2.1

24.4m 1 6  
2 6 20m 24m  
H=5m  
23.2m 28.6m H=6m  
20m 14m 2-1



2-1

---

2.2

1

8.3

35.2

-

---

2.3

10.6m

1

13.9m

12m

0.2m

1.2m

0.6m

6m

16m

10.6m

13.7m

0.6m

0.5m

2

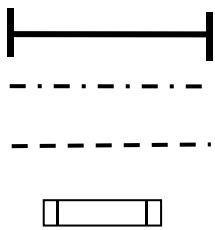
2

4m

---

2-2

---



& %			a	
			5.5	47
	1		8.5	20
	2		8.5	24
			7	26
	H=5m		5	45.9
			5	47
	H=6m	-	5	44.3
			5	60.9
	1		8.5	20
	2		8.5	21
			7	25.7
	H=5m		5	50.6
			5	51
	H=6m	-	5	51.8
			5	30.8
	1		8.5	40
	2		8.5	45.1
			7	23.2
	H=5m		5	28.6

---

---

---

---

& &

a

2.4

2-3

& '

1			90m <sup>2</sup>			
2			268m <sup>2</sup>			H=6m
3			20m <sup>2</sup>			

2-4

& (

1		2	30m <sup>3</sup>	-	SF
2		2	30m <sup>3</sup>	-	SF
3		2	CS30J2123G		
4		2	CS30J2123G		
5		4	TLS2		
6		1	UZK-SA-LD		-
7		12		-	4 6 4m 2 4m

2.5

3

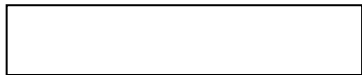
1

---

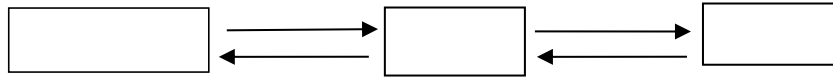
2.6

1.0 1.2

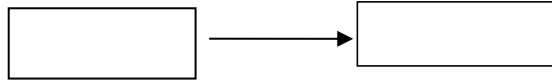
2-2 2-3 2-4 2-5



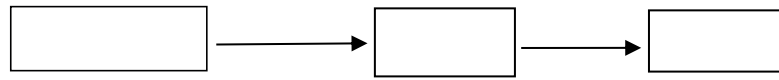
& &



& '



& (



& )

2.7

2.7.1

1

91210322774634728D

2022 12 12

2

[2023]100037

2023 3 21

3

LNFYJC/B/TY2025003456

---

2026 4 5

4

2.7.2

1

2

a.

5

b.

c.

3

4

380/220V

TN-S

UPS

5

5

6

11

8kg

1

---

8kg

4 5kg

CO<sub>2</sub>

6

8kg

2

35kg

2

3m<sup>3</sup>

7

12

4

6

4m 2

4m

---

3.

3.1

3.1.1

GB18218-2018

1

2

3.1.2

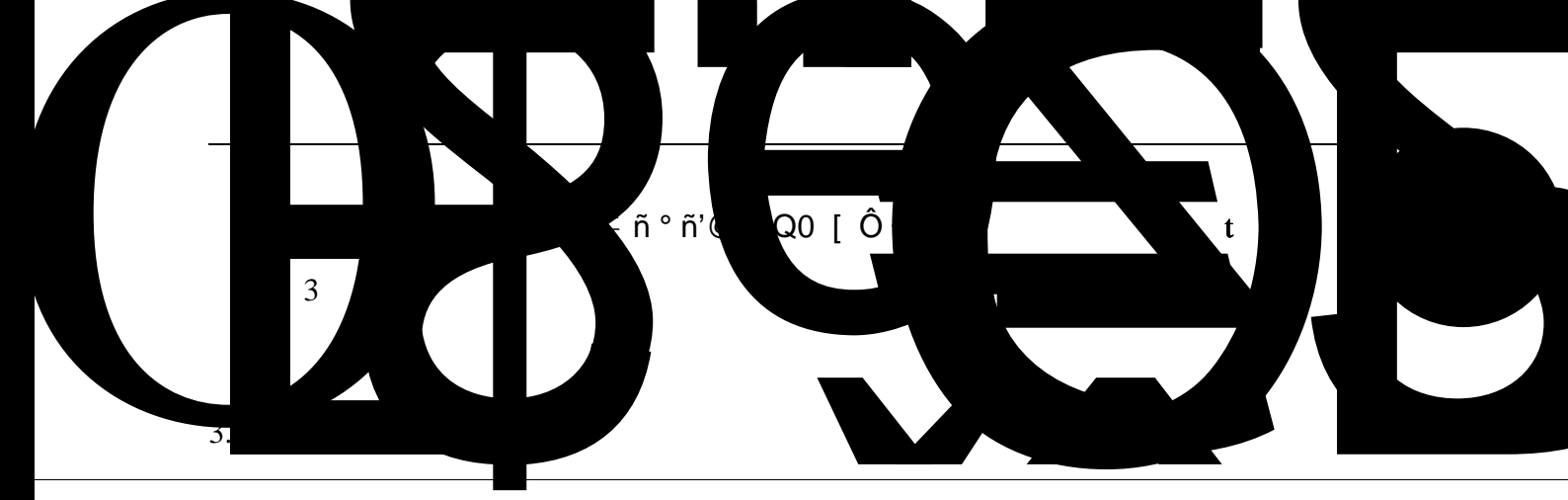
1

2

$$S=q_1/Q_1+q_2/Q_2+\dots+q_n/Q_n \quad 1$$

S——

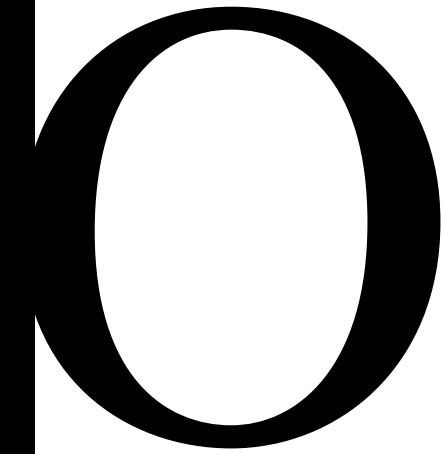
q<sub>1</sub> q<sub>2</sub>... q<sub>n</sub>——



23 ”

60

3-1







---

15min

50m

300m

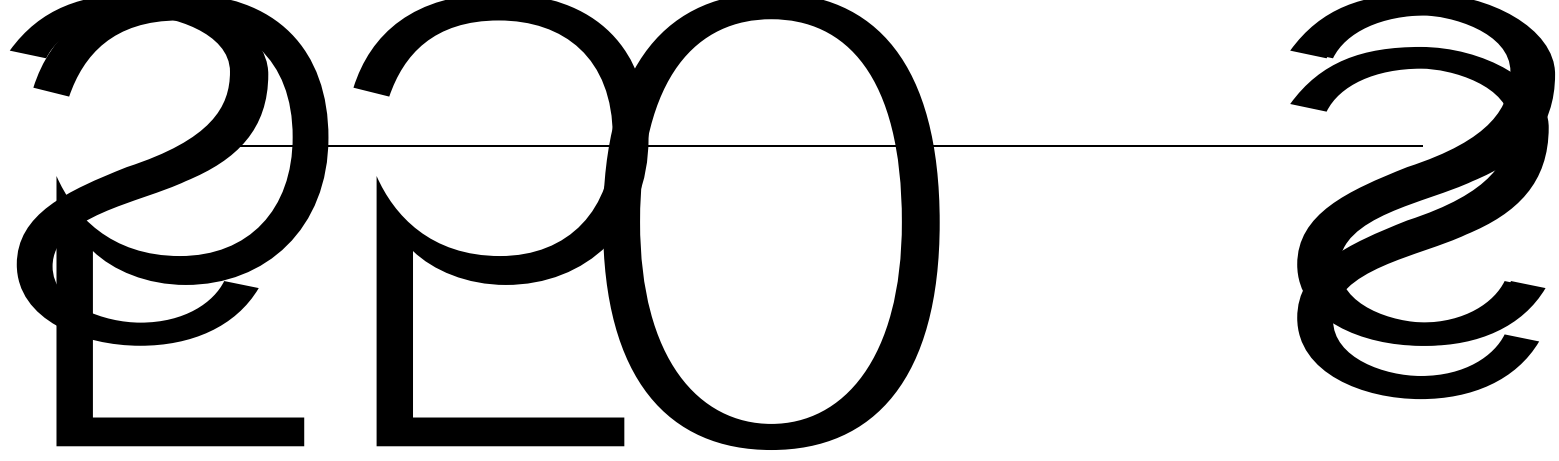
1674

-18

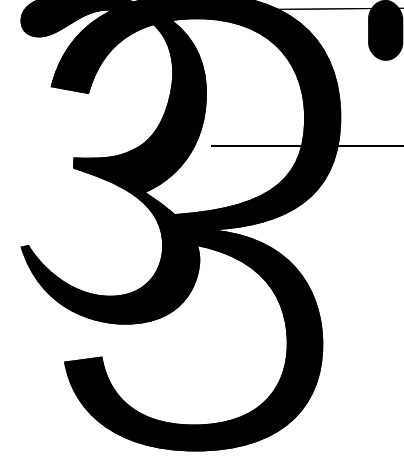
=1 0.87 0.9

282-338

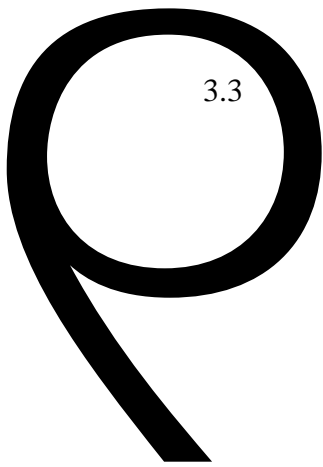
0.6%~7.2%



5 0 -10 60 -20  
50 -35 -50 45



3.2.2



3.3





3

4

---

3

3.3.3

3.3.4

---

3.3.6

3.3.7

---

4.

4.1

8

1

2

3

4

5

6

7

8

4.2

---

5.

8

5-1

---

8  
9  
10  
11  
  
12  
13  
14  
15  
16  
17  
18  
1  
2  
3  
  
1  
  
1  
  
2

Ê j

1 N\* 6

)!'

	1	GB50156-2021 3.0.4		
	2	GB50156 3.0.9	30m <sup>3</sup>	
	3	GB50156-2021 3.0.25		
	4	GB50156-2021 3.0.27	12	
	1	GB50156-2021 4.0.1		
	2	GB50156-2021 4.0.2		
	3	GB50156-2021		
	4.0.4			

		4.0.4	4.0.4	
4		GB50156-2021 4.0.12		
5		GB50156-2021 4.0.13		
1		GB50156-2021 5.0.1		
2	6m 4m 8%	GB50156-2021 5.0.2	12m 8%	
3		GB50156-2021 5.0.3		
4	“ ” “ ”	GB50156-2021 5.0.5	“ ” “ ”	
5	3m	GB50156-2021 5.0.6		

---

1.2m<sup>3</sup>

13	5.0.13-1 C	GB50156-2021 5.0.16
----	---------------	------------------------

GB2010-551 e B 02ii E 4

---

5

10<sup>9</sup>  
10<sup>9</sup>  
A=0.04Vt  
GB50156-2021  
6.1.7  
SF

6.

11.2  
GB50156-2021  
6.1.8  
SF

7

GB50156-2021  
6.1.9

8

4mm  
80mm  
SF  
GB50156-2021  
6.1.10

---

11

GB50156-2021  
6.1.13

12

GB50156-2021  
6.1.14

13

90%

95%

GB50156-2021  
6.1.15

14

GB50156-2021  
6.1.16

0.8L/h

15

SH 3022

GB50156-2021  
6.1.17

SF

56-2021

1



	5	GB50156-2021 6.3.5		
	6	GB50156-2021 6.3.6		
	7	GB50156-2021 6.3.7	50mm	
	50mm			
	1.0 1.2			
	25mm			
			25mm	

---

8

100mm

50mm

45

---

4mm

4mm

---

0.5m

17

GB50156-2021  
6.3.18

18

6.3.12

1

2.8m/s

2

GB50156-2021  
6.3.19

19

GB/T21447

GB50156-2021  
6.3.20

)

100mm

4mm

200mm

20

GB50156-2021

6.5.3

10mm 30mm



---

2

GB50156-2021  
12.3.3

1

AQ3010-2022  
4.4

2

AQ3010-2022  
4.4

3 ã

" " ,

XF/T 3004-2020  
8.1

---

3		90min		GB50156-2021 13.1.3	90min
4					
		4.5m 4.5m	5m	GB50156-2021 13.1.4	
3m					
5				GB50156-2021 13.1.5	
6					
	LPG	LNG	CNG	GB50156-2021 13.1.6	
7					
		GB50058		GB50156-2021 13.1.7	
8					IP44
		IP44		GB50156-2021 13.1.8	
1					
	2			GB50156-2021 13.2.1	2
2					

---





---

2

5.0.5

3

---

)! +

1

140kw

2m

GB50156-2021

14.1.3

2

12

5

GB50156-2021

14.1.4

300cm<sup>2</sup>/m<sup>2</sup>

2

3

---

2

4.5m

6m

2m

GB50068

GB50156-2021  
14.2.2

GB50009

GB50009

GB50011

GB50011

3

0.15 0.2m  
1.2m

0.6m

GB50156-2021  
14.2.3

1.2m

0.2m

0.6m

100mm

0.5m

4

GB50156-2021  
14.2.7

5

GB50156-2021  
14.2.9

6

300m

---

E

	7 B GB50016		GB50156-2021 14.2.11	B	
	8	3h	GB50156-2021 14.2.12		
	9		GB50156-2021 14.2.13		
	10 25m 3.0h	5.0.13	GB50156-2021 14.2.14		
	11		GB50156-2021 14.2.15		
	12		GB50156-2021 14.2.16		
	1		GB50156-2021 14.3.1		

---

)!

“ ”





---

	8	8	0	0
	28	27	0	1
	16	9	0	7
	20	11	0	9
	175	146	0	29

5-9

175

29

146

**1**

1		8kg	5kg 4	8
2		35kg	1	2
			2m <sup>3</sup>	3m <sup>3</sup>
3		8kg	-	4
		5kg CO <sub>2</sub>	-	6
4		8kg	-	2

---

6.

1

2

3

" " "

" " "

4

5

---

6

"

"

"

"

"

---

---



---

1.  
GB50058-2014

1 0

2 1

3 2

2. 1

3. 1

1 1

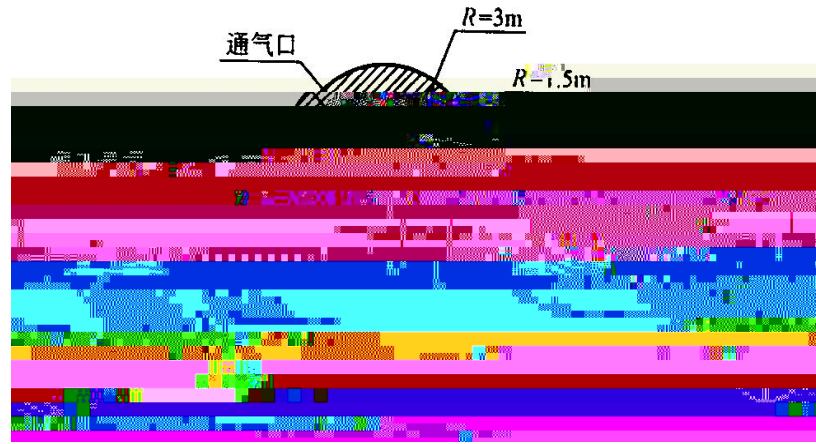
2 4.5m

0.15m 3m 2

3  
1.5m

3m

2



&

5.

3

1

0

2

1.5m 0.75m

0.5m

1

3

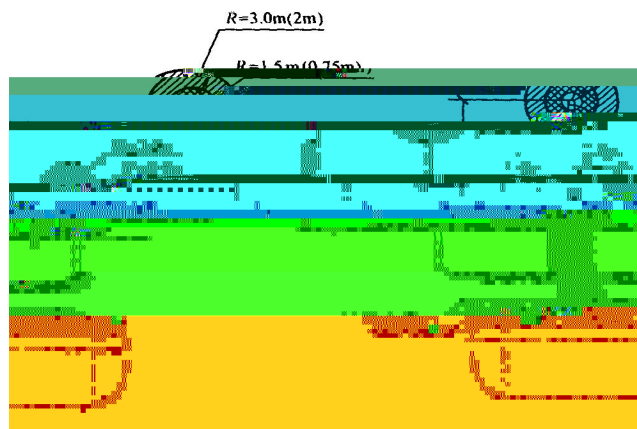
1.5m

1m

3m 2m

1.5m

2



---

---