1.1 1
1.2 2
1.3 2
1.4 3

2.1 4
2.2 6
2.3 7
2.4 11
2.5 12
2.6 14
2.7 16

3.1 17
3.2 18
3.3 19
3.4 “ ” 19

6.1 23
6.2 24

7.1 26
7.2 30

7.3 42

8.1 43
8.2 43
8.3 44
8.4 45
8.5 45

A.1 48
A.2 48
A.3 48

B.1 49
B.2 49

C.1 50
C.2 53
C.3 57
C.4 58
C.5 59

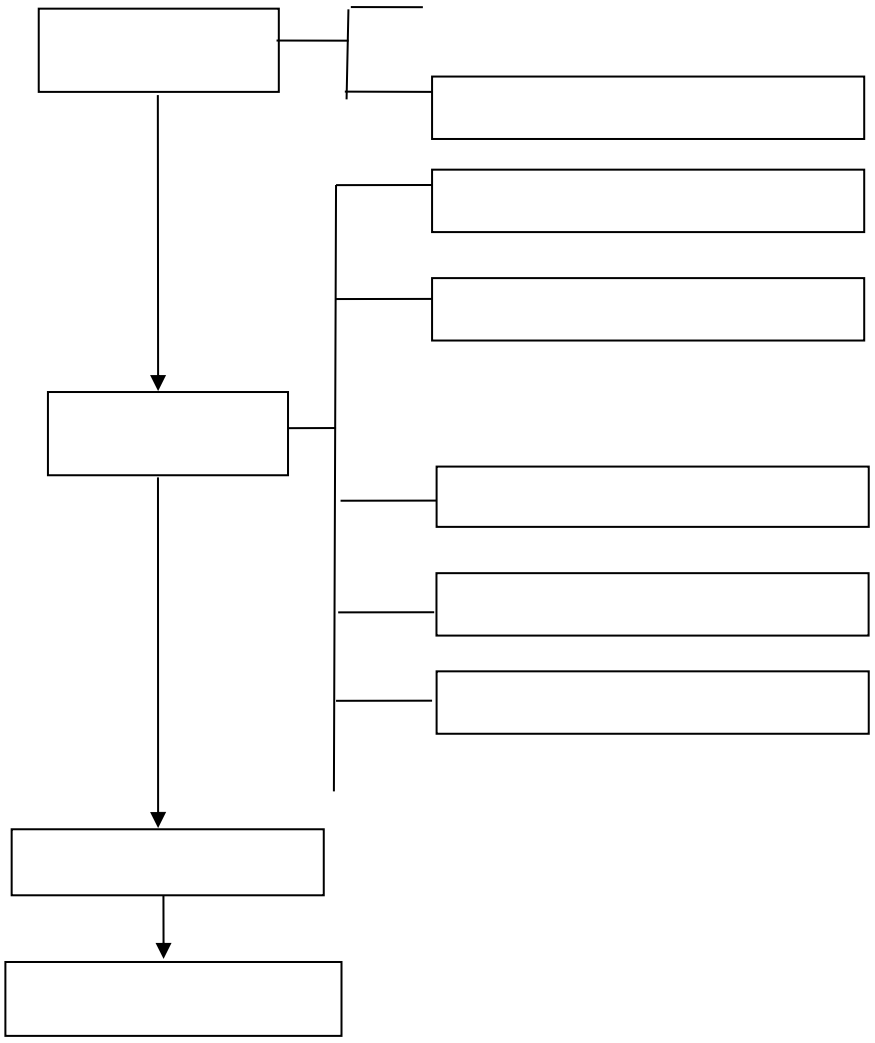
D.1 89
D.2 92
D.3 95

1

1.1

1.4

1.4-1



1.4-1

2.1-1

1	SF	20m³ 3	20m³ 3	V05
		20m³ 2	20m³ 1	
		-	20m³ 1	
2		3	3	J01
		3	2	
		-	1	
3				-
4				-
5				-

4.1

GB50156

	m³
	60
	20
	20

100m³ 90m³

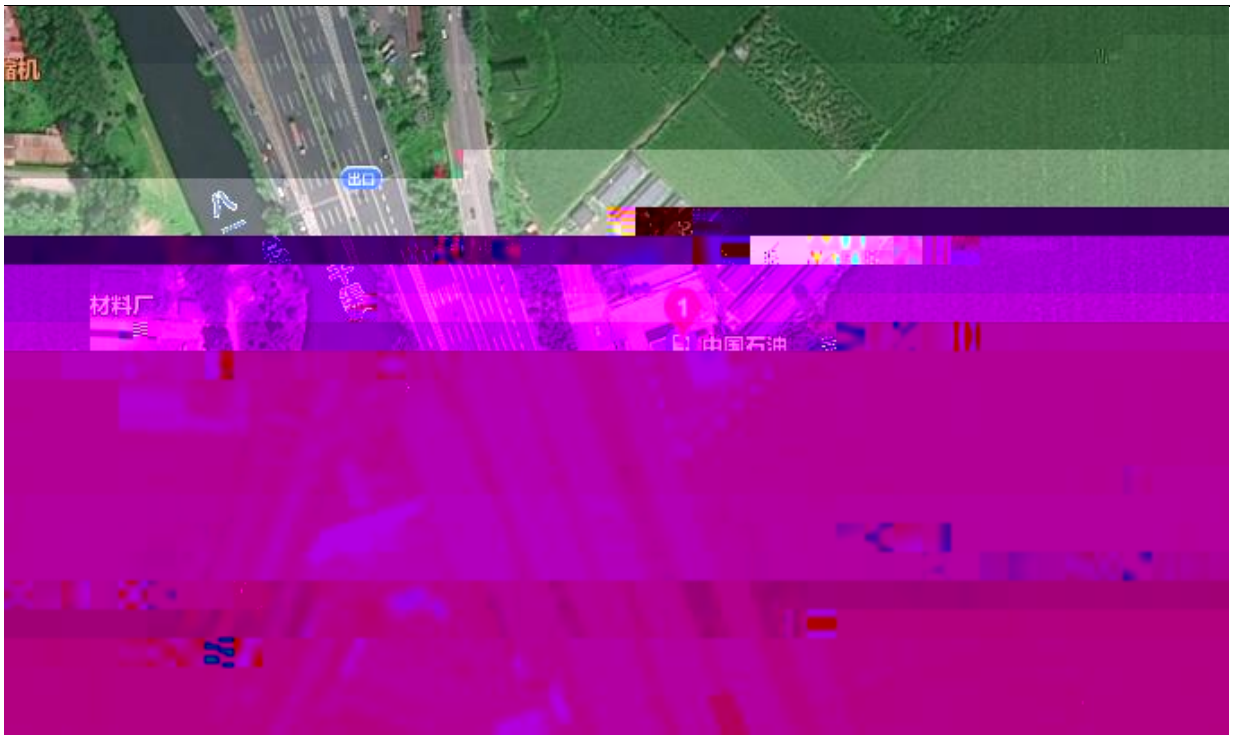
GB50156-2021

2.2

2.2.1 تم

SF

SF FF



2.3-1

2.3.2

3106m^2

V05

0.5m 21m

0.2m 1.2m

1.2m

1 1

12.4m

2.3-2

2.3-1

2.3-2

2-1

2.3-1 m

				7	11
				10.5	25
			-	-	-
				5.5	37
				7	13
				7	31
				10.5	36
			-	-	-
				5	20
				7	37.4
				7	19.3
				10.5	35.5
			-	-	-
				5	43
				7	12
4.1 4.2 GB50156-2012 2014 GB50156-2012 2014 GB50156-2021					

2.3-2 m

	-	-	-	-	-	-	-	-
	0.5	2	-	-	-	-	-	-
	0.5	0.5	-	-	-	-	-	-
	-	-	-	-	-	-	3	7.6
	-	-	-	-	-	-	3	7.6
	-	-	-	-	-	-	2	7.6
	4	21	4	11	5	14.7	5	12.4

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GB 50057

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6.1.3

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6.1-3

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6.2.3

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24 181

6.2.4

200t 5000t 500t 0.26<1

C.3

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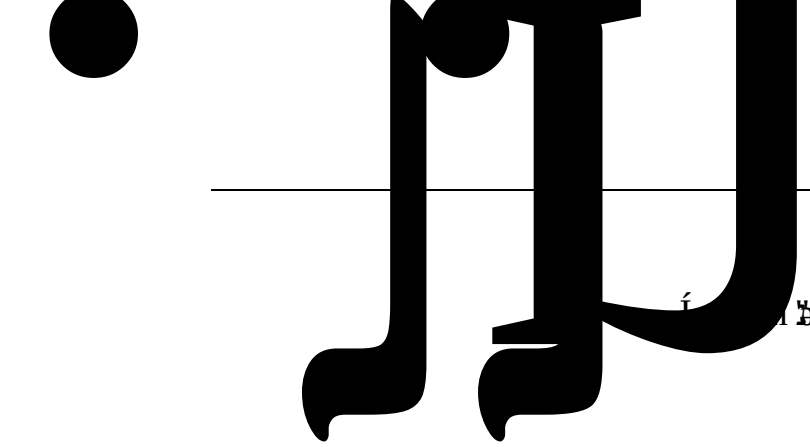
7.1

7.1.1 F?



25.2

12.7

38.3

-30.6

3.2m/s

23m/s

7

28.3d

42d

8

6

1.40m

1

6

-

2.3-2

7.2

7.2.1

7.2-1

7.2-1

1.1	1 DN50 20# 4.0m 1.2m 2kPa 3kPa 1.5kPa 2kPa 2 B 3 150mm 100mm 4 5 4 4	
1.2	1 90% 2 SF 3 80mm	

	4 5 6 P6 7 100mm 8 50mm 9 1 1.2 DN25	
1.3	1 - - - - - 0.19mm 2 0.5m 0.2m 3	
1.4	1 — 90% 95% 2 DN25 3	
1.5		
1.6	1 200 mm 100mm 2 3 0.005 0.01 4	

	5 0.45m 6 50mm 2.8m s	
2.1	1 1 2 2.2m GB50156-2021 2.3.1 GB50156-2021 4.0.4 5.4 2 1 2	
2.2	1 GB50156-2021 GB50016-2014 2018 2 ±0.00 0.15 0.150 3‰ i 8% 3 1 458 7.5m	

1.00m 6m

5.1.2

2

117 117

0.150m :

3

5.1.2

3

1 20m³

3.1	AQ3020-2008 - - SH/T3178 GB/T8163-2018 GB50156-2021 15.5	
3.2	1 0.08MPa 2 DN50 20# 20# DN50 4mm DN100 DN100 SO-RF HG/T20592-2009 RF HG/T20610-2009 HG/T20613-2009 GB/T6175-2016 GB/T12459-2017 0.005 0.01 3 5-50L/min 4 100mm 45° 200mm 200mm 5 1 2 3 4 50mm 6 1 2 3 4 5 6 7 40 400	

	8	
3.3		
4.1	1 TN-S	
4.2	1 4.2 2 GB50156-2021 1 1 1 2 3.0m 0.15m 2 2 1 1.5m 1.0m 2 3 1 1 2 1.0m 1.5m 2 3 GB50058-2014 ExdIIAT3Gb ExdIIAT3Gb IP54 90min	
4.3	, R≤4Ω 10Ω 4Ω 30Ω	

“ ”

Φ10 10m×10m 12m×8m

1m 0.5m

“ ”

, Φ10

20mx20m 24mx16m 1m 0.5m

2 ≥Φ16 4 ≥Φ10 25m

95%

5.1

1

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2

3

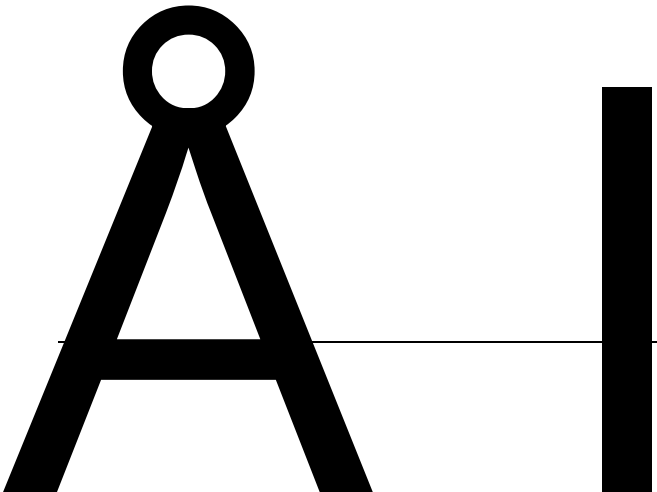
6.1

4

2

6 0.10g

0.55KN/ 50 0.50KN/ 50



GB 2894

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6.3

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		2
		12 24 36
		12
		3

6.4

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8 TSG Z6002-2010

	9 10 10 5m	
6.5	1 2 3 4 200 1 / 4 5 / 5 6 15 7 8 9	

7.2-2

7.24ش2 m "

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		3000VA-1800W				

2026 4 3

7.2.3

7.3

C.4

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A.1

A.2

A.3

C

C.1

C.1.1

C.1.1-1

CAS 67-56-1

Methyl alcohol Methanol 3 6.1

CH_4O 32.04

32.04 -97.8 64.7

=1 0.79 =1 1.1

7.95MPa 240 12.26kPa 20

1.3288 11 5.5% 44.0%

464 0.215mJ

4

PC-TWA mg/m^3 25

PC-STEL mg/m^3 50

1

2

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——　30min

——

3

1

37

2

3　GB 50057

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——　10Ω

100Ω

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——

——　GB 2894

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C.2.4

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C.2.6

C.2.7

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C.4

C.4.1

2002 × ×

C.5

C.5.1

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2026 4 3

C.5.3

C.5-3

C.5-3

	1 GB50156-2012 2014	4.1	GB50156-2012 2014	
	2 LPG CNG LNG GB50156-2012 2014	4.3	GB50156-2012 2014	
	3 LPG CNG LNG	4.5		

GB50156-2012 2014

3.0.13 3.0.14 3.0.15

GB50156-2012

2014 5.0.12 GB50156-2012 2014

5.0.12

2

2.2m

4.0.4

1.5 25m

GB50156-2021

5.0.12 2.3-2

4.0.4

3

GB50156-2012 2014

6.2 GB50156

5.0.2

4

4m

6m

9m

8% GB50156-2021

8%

5.0.2

5

GB50156 5.0.13

A B C

6.3

GB50156-2012 2014

5.0.13 A B C

6

GB50156 5.0.13 GB50156-2021

2.3-2

5.0.13

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C

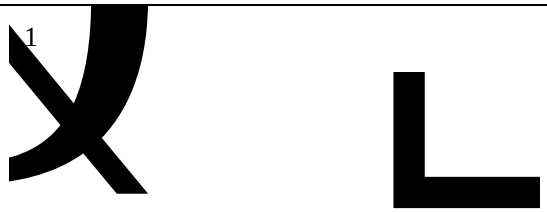
GB50156-2021

		5.0.16		
	8	6.4		
	9 GB50156-2012 2014	6.5	GB50156	
	10	GB50156-2021 5.0.7		
	11	GB50156-2021 5.0.8		
	12 14.2.10 300m^2	GB50156-2021 5.0.9		
	13 4.0.4 “ ” “ ”	GB50156-2021 5.0.10		

C.5.4

C.5-4

C.5-4



0.08MPa

10 -

SF

- GB

SH/T3178 50156-2021

6.1.5

91 Ã ü

4mm 6.5.3

200mm

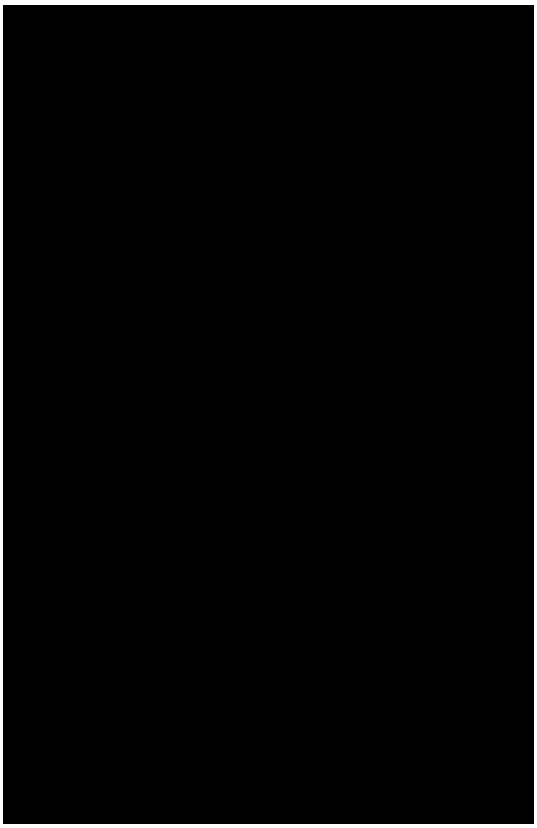
10mm

30mm

23

GB50156-2021

6.5.4



GB50156-2012 2014 6.2 7.2.1

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7.2.2

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7.2.3

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7.2.4

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GB50156-2021

6.2.1

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7.3.3

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GB50156-2021

6.3.1

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GB50156-2021

6.3.2

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1.0 1.2

25mm

25mm

10

50mm

100mm 45°

T

100mm

45°

GB50156-2021

6.3.8

150mm

150mm 200mm

11

4m

GB50156-2021 4m

2m 6.3.9

12 50mm 50mm

GB50156-2021

6.3.10

13

	1.5kPa~2kPa	6.3.11		
	14 GB/T8163 4mm 4mm 108Ω·m 1010Ω	GB 50156-2021 6.3.12	GB/T8163 4mm	
	15	GB50156-2021 6.3.13		
	16	GB50156-2021 6.3.14		
	17 2‰ 1%	GB50156-2021 6.3.15	2‰	
	18 6.3.15 1%	GB 50156-2021 6.3.16	1%	
	19 0.4m	GB50156-2021	0.5m	

	0.2m 100mm	6.3.17	0.3m 0.2m	
	20	GB50156-2021 6.3.18		
	21 GB/T21447	GB50156-2021 6.3.20	GB/T21447	

C.5.5

C.5-5

C.5-5

	1 2 2 4 1 4 1 6 2 2	8.1.1	1 5kg	
	2 1 35 65	8.1.2	2 35kg	
	3 5 2	8.1.3	8 2m^3	
	1	8.2.1		
	2			

GB50156-2012	2014	10.3	8.3	GB50156-2012

C.5.6

C.5-6

C.5-6

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GB50156-2012 2014 9.1 GB50156-2012 2014 11 11

2

90% 9.2 95%

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GB50156-2021

13.1.5

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GB50156-2021

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GB50156-2021

GB50058-2014

13.1.7

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IP44

GB50156-2021

IP44

13.1.8

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SF

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GB50156-2021

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13.2.1

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GB50156-2021

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LPG

GB50156-2021

13.2.4

4

0.7mm

5

GB50156-2021
13.2.7

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13.2.8

7 380/220V TN-S
380V
TN-C-S

GB50156-2021
13.2.9

8

GB50156-2021
30Ω
13.2.10

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100Ω GB50156-2021

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GB50156-2012 2014 12

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300cm^2/m^2

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GB50156-2021 14.1.5

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GB50156-2021 14.2.1

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GB50068-2014

GB50009

GB/T50011-2010

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

C.5.8

C.5-8

C.5-8

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GB50156-2012 2014 13 2014 13
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LNG

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0.1MPa 0.1MPa GB50156-2021

10min 0.08MPa È 15.2.10

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35kpa

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C.5-9

C.5.10

C.5-10

	5	5	0	0
	38	38	0	0
	24	23	0	1
	55	50	0	5
	11	11	0	0
	27	25	0	2
	17	11	0	6
	8	8	0	0
	20	10	0	10
	205	181	0	24

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1 88 2021 9 1

2 81 2021 4 29

3 25 2024 11 1

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23 2024 10 1

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11 GB 18218-2018

12 GBZ/T 230-2010

13 1 GBZ 2.1-2019

14 2 GBZ 2.2-2007

15 GB 50058-2014

16 AQ 3009-2007

17 GB/T 6441-2025

18 GB/T 13861-2022

19 2018 GB 50016-2014

20 GB 55037-2022

21 GB 55036-2022

22 GB 50140-2005

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24 GB 12158-2024

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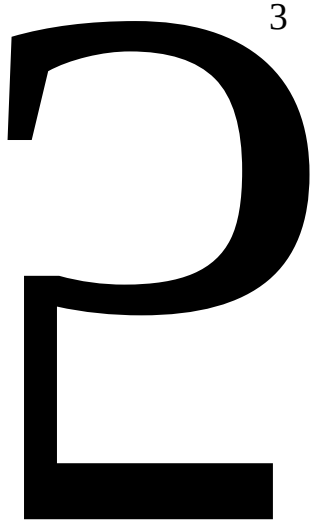

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