
						2015	6
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		164600t	26400t		8200t		
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5		V301	MTBE	V302		95#	
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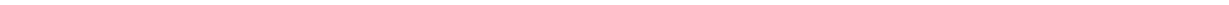
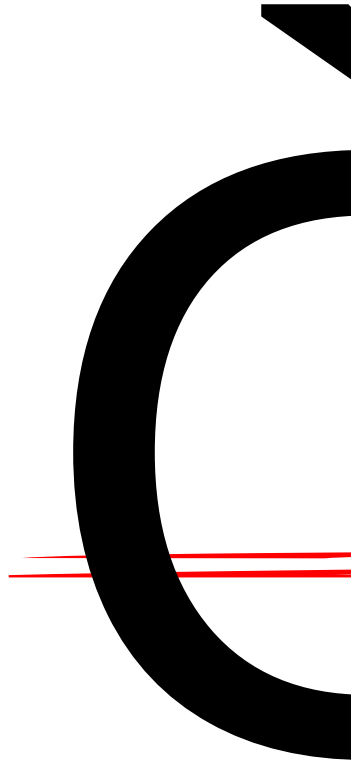
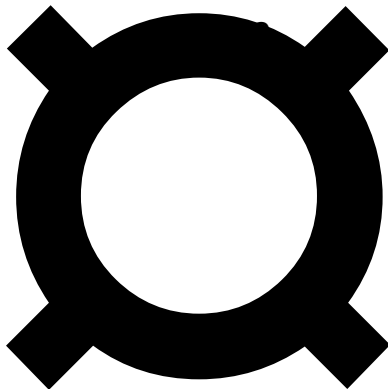
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2.9		24
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3.5		87
3.6		93
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4.3		103
5		105
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7		175
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7.3		185
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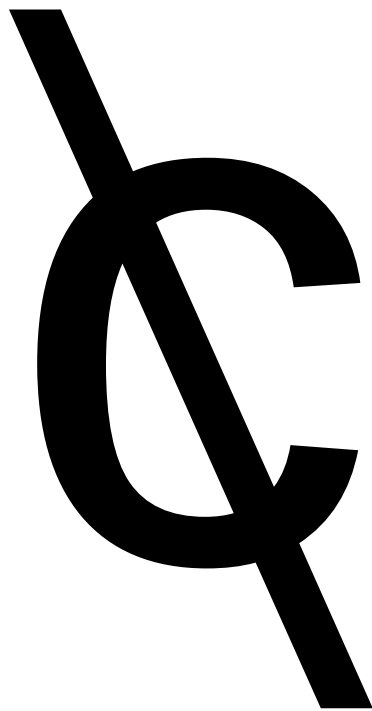
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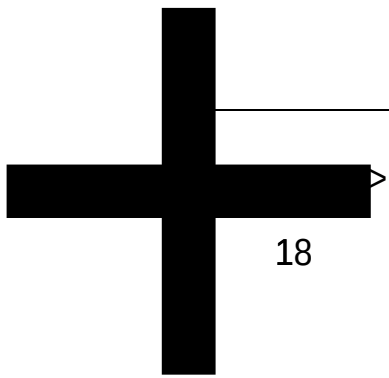
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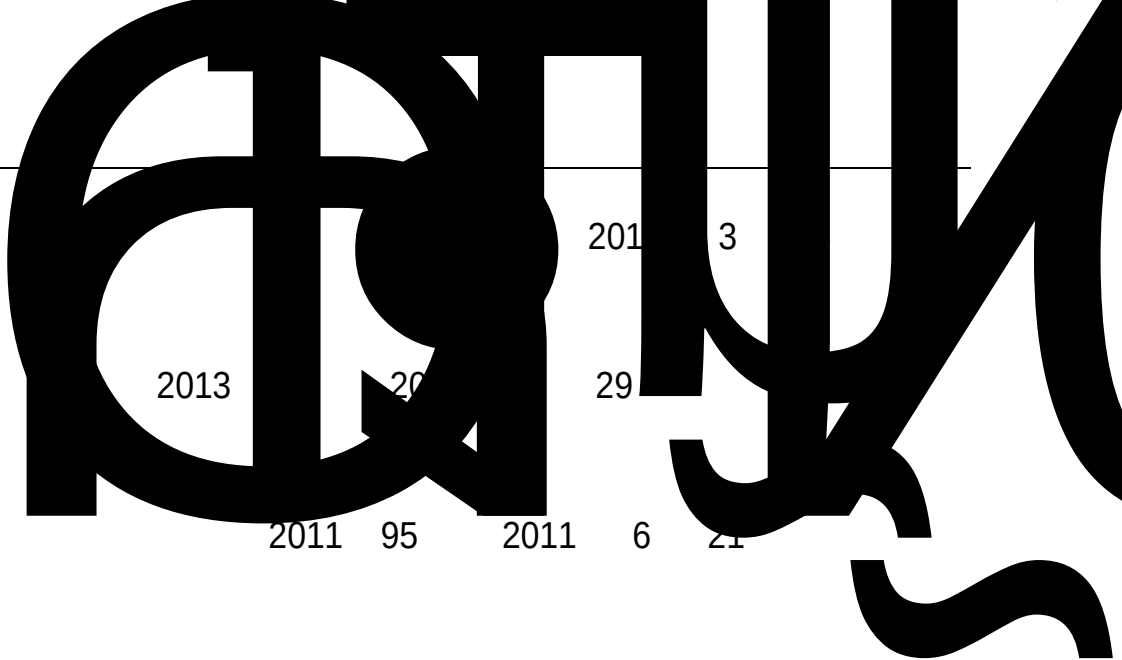
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34	GB55036-2022	
35	GB6944-2012	
36	GB50974-2014	
37	-	TSGD0001-2009
38		GB50093-2013
39		GB17914-2013
40	GB/T13869-2017	
41		GBZ/T230-2010
42		HG20571-2014
43	1	GB39800.1-2020
44	GB50052-2009	
45	GB50191-2012	
46		GB50303-2015
47	2024	GB50011-2010
48	2018	GB50016-2014
49	GB50034-2013	
50		AQ/T9009-2015
51		GB/T12801-2008
52		GB5083-1999
53	GB50014-2006	2016
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GB/T3787-2017		
55	GB12268-2012	
56	1	GB/T20801.1-2020
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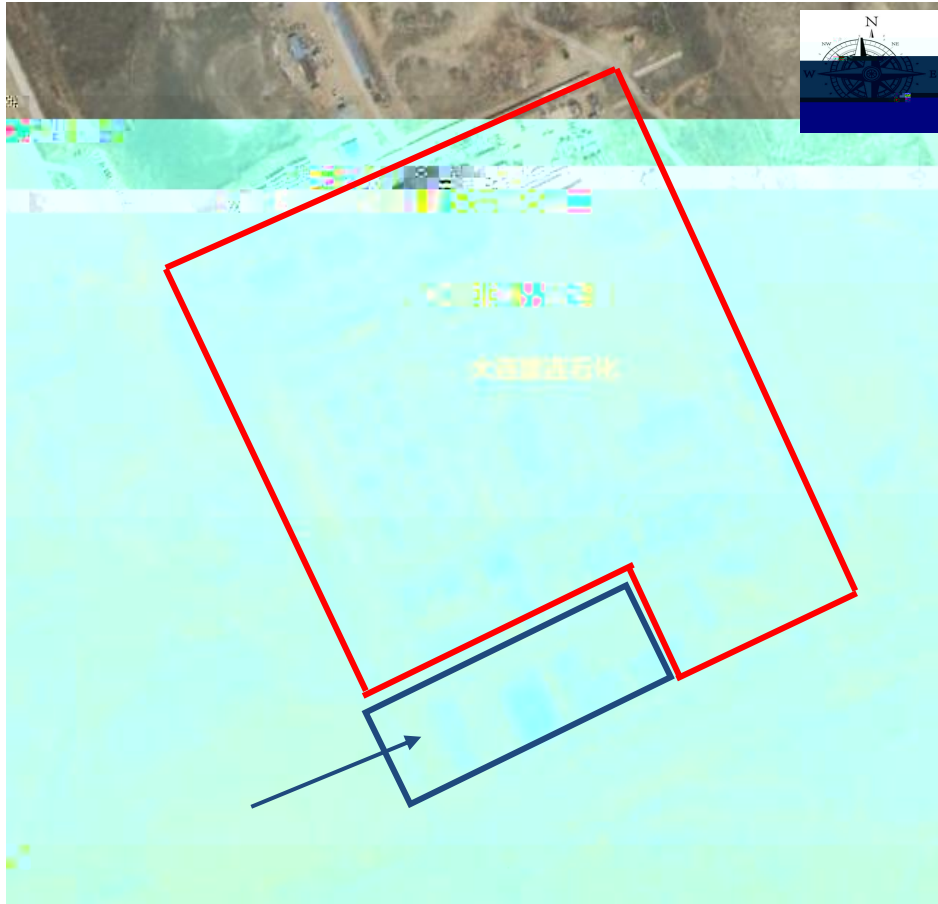
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2.4.1-1

2.4.1-2

2.4.2

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AV



2.5.2

2.5.2-1

2.5.2-1

			m	m ²	m ²				
1									
2									
3	H=18m						/	/	
4									
5								/	
6	B						B	/	
7	/							/	
8									

2.6.1

< (2024)>
()
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2.6.2

2.6.3

2.6.5

1

1 2000m³MTBE

V301

V303 1 20

2.6.5-2 2.6.5-3 2.6.5-4 2.6.5-5 2.6.5-6

2.6.5-2

							()	MPa	
1	PL10202-2	1.6A1	DN150	PL10202	PL10203-2	MTBE/	30	0.52	GC2
2	PL10202-3	1.6A1	DN150	PL10202	PL10203-3	MTBE/	30	0.52	GC2
3	PL10214	1.6A1	DN100	P304	V305		30	0.3	GC2
4	PL10215	1.6A1	DN100	PL10215-1 PL10215-2	V304		30	0.3	GC2
5	PL10215-1	1.6A1	DN100	P303	PL10215		30	0.3	GC2
6	PL10215-2	1.6A1	DN100	P304	PL10215		30	0.3	GC2
7	PL10216	1.6A1	DN100	P303	PL10216-1 PL10216-2	MTBE	30	0.3	GC2
8	PL10216-1	1.6A1	DN100	PL10216	V301	MTBE	30	0.3	GC2
9	PL10216-2	1.6A1	DN100	PL10216	V302	MTBE	30	0.3	GC2

2.6.5-3

				mm	(MPa)	(MPa)	(MPa)		()
1	PSV2301	A42Y-16P	1	32	1.6	0.12	0.1	MTBE	VT10201-32-1.6A1
2	PSV2302	A42Y-16P	1	32	1.6	0.12	0.1		VT10202-32-1.6A1
3	PSV2303	A42Y-16P	1	32	1.6	0.12	0.1		VT10203-32-1.6A1
4	PSV2304	A42Y-16P	1	32	1.6	0.12	0.1		VT10204-32-1.6A1
5	PSV2305	A42Y-16P	1	32					

2.6.5-5

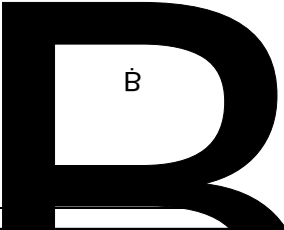
				(MPa)	()	(kPa)	(kPa)	()			
1	PM2301	1	DN500	1.6	30	1.8	1.96	50	Q235B	MTBE	V301
2	PM2302	1	DN500	1.6	30	1.8	1.96	50	Q235B	95#	V302
3	PM2303	1	DN500	1.6	30	1.8	1.96	50	Q235B	95# I c Æ ,	

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2.7.1

2.7.1-1

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2022	52				
		2.9			
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1					
GB5749-2022		0.4MPa			DN300
		Y			
		1700t/d			1000t/d
700t/d					
1					
			50L/d		72
	2.0		3.6m ³ /d		
0.3m ³ /h					
2					

3

$$3.14 \times 14 \times 0.5 \times 3 = 65.94\text{m}$$

$$0.7\text{L}/(\text{s}.\text{m})$$

$$65.94 \times 0.7 = 46.158\text{L/s}$$

$$26.376 + 46.158 = 72.534\text{L/s}$$

B

$$26.376 + 46.158 = 72.534\text{L/s}$$

2.9.1-1

	100L/s		
	300L/s		
1	1.4MPa	XBD14/100-280 × 7	3
	280kW		
	1480r/min		
	7		
	S		
	150L/s		
	300L/s		
2	1.4MPa		

4h

$$72.534 \times 3.6 \times 4 = 1044.49 \text{m}^3$$

B

6 2000m³

φ 14 × 14

1

1



6		0.5MPa	PCL8		12	2
7		0.5MPa	PCL8		12	2
8		0.5MPa	PCL8		12	2

7d

(1.6MPa)

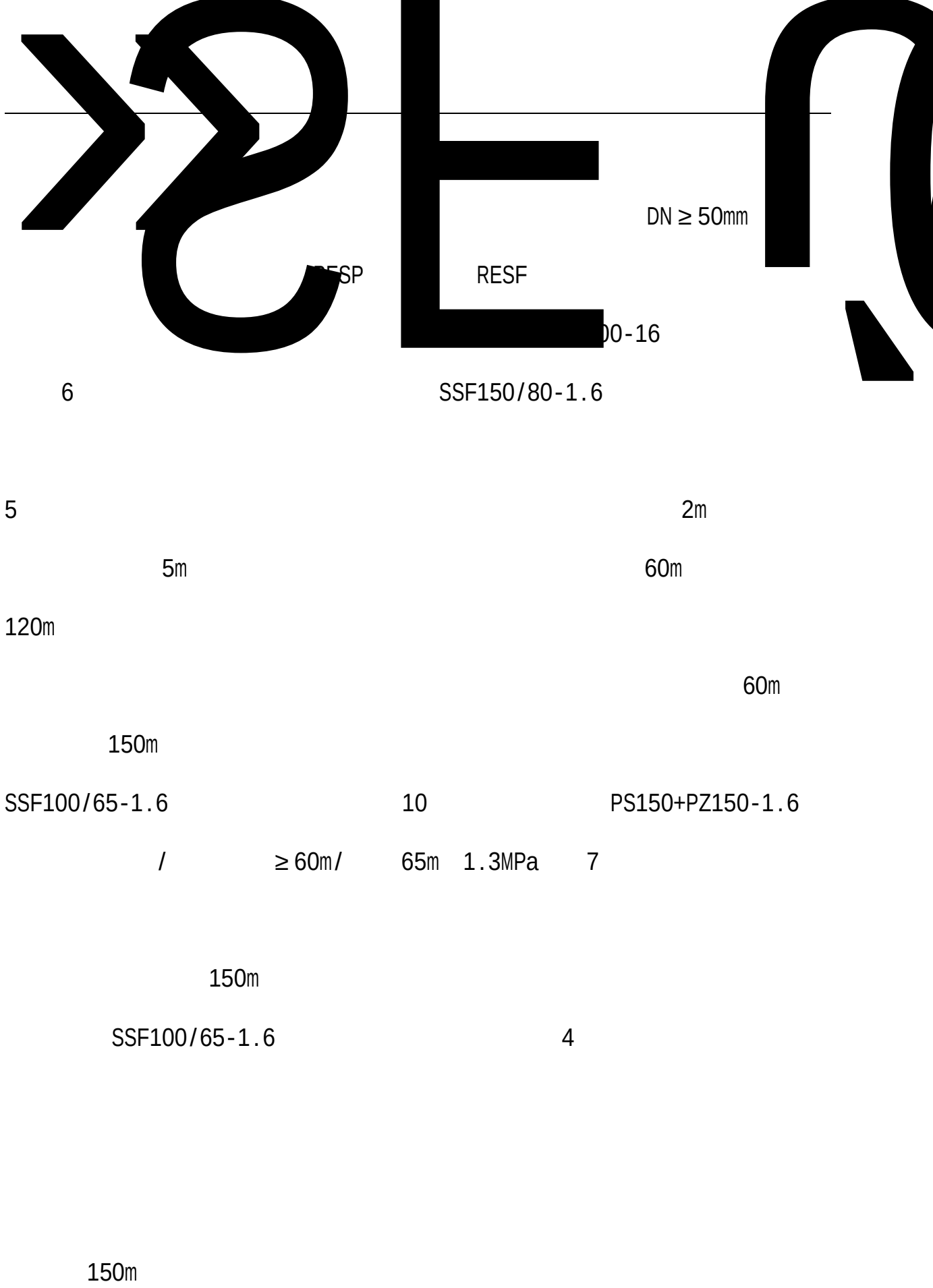
-0.1-0.7MPa

0.4

75%

175%

0.85MPa 1.05MPa



DN125

(15min)

t_1	5-15min	10min	
t_2	min	5 min	
		185.385L/(s hm ²)	
	$Q=q\Psi F$		
Q	L/s		
q	185.385L/(s hm ²)		
Ψ	0.9		
F		230.1m ²	3152.5m ²
33.			

$V_1 + V_2$

V_2

$V_2 = \sum Q \quad t$

$Q \quad \text{——}$

$t \quad \text{——}$

$V_3 \text{——}$

$V_4 \text{——}$

$V_5 \text{——}$

$V_5 = 10qF$

$q \text{——}$

mm

m^3

h

m^3/h

m^3

m^3

m^3

1.4m

GB 50351-2014 3.2.5

2000m³ 3.2.7 $V=AH_j - V_1+V_2+V_3+V_4$ H_j 0.95m

0.95+0.2=1.15 1.4 GB 50351-2014

3.2.6 2018 GB50160-2008

6.2.17 $3152.5-7.0 \times 7.0 \times 3.14 \times 6 \times 1.4=3121.076\text{m}^3$

$V_1+V_2-V_3 = -1.392<0\text{m}^3$

$V_1=0\text{m}^3$

$V_2=648\text{m}^3$

0m^3

$V_1+V_2-V_3 = 648\text{m}^3$

$V_1+V_2-V_3 \max=648\text{m}^3$

$V_4=0$

$q=q_a/n=9.638\text{mm}$

$V=10qF=10 \times 9.638 \times 7.9686=768.014\text{m}^3$

768.014m³

$648+0+768.014=1416.014\text{m}^3$

4500m³

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2.9.4

2.9.4.2-1

2.9.4

2.9.5

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R132I_A8.5

1

HDX-50

1

CFD-30/10

1

1400Nm³/h

0.8Mpa

-30

150Nm³/h

800Nm³/h

450Nm³/h

5m³

5m³

3m³

3

14

MTBE/

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MTBE

MTBE

95#

95#

6.3Nm³/h

450Nm³/h

2

2	400Nm ³ /h	4m ³			
	50Nm ³ /h				
		100mm			0.04W/(m K)
2000m ³		4W/(m ² K)	C		4
	75Nm ³ /h	0.6MPa	25	5	



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3	SIF03	V302 95#		SIL1
4	SIF04	V302 95#		SIL1
5	SIF05	V303 95#		SIL1
6	SIF06	V303 95#		SIL1
7	SIF07	V304		SIL1
8	SIF08	V304		SIL1
9	SIF09	V305		SIL1
10	SIF10	V305		SIL1

SIL- “ ”

SILa “ PBCS SIS ” SIL1 3 “

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2.9.6.1-2

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1		()	2	EXd CT4Gb
2	B	()	7 3	EXd CT4Gb
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			UN	CAS				()	()	(v/%)	(kJ/mol)	()				
						=1	=1									
1	MTBE	1148	2398	1634-04-4		0.7405	3.1	53~56	-10	1.6~15.1	38103	B		3		--
2		2568	1170	64-17-5		0.789	1.59	78.3	13	3.3~19	1368	B		3		--
3		1964	1256	8030-30-6		0.75	3.2	165—200	34	0.6~6.5	47400	B		3		--
4		2740	1262	26635-64-3		0.698	3.9	99.2	-12	1~6	47847	B		3		--

5	95#	UN	CAS	=1	=1	()	()	(v/%)	(kJ/mol)	()
1630	1203	86290-81-5	0.732	3-4	20--					

3.2.1 MTBE

3.2-2 MTBE

55.2	(=1)0.74	(=1)3.1	88.15	-108.6
3360.7kJ/mol	/	0.94 1.24	27kPa(20)	
1.6 15.1		-28	375	

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[V/V] 6.0	[V/V] 1.0	

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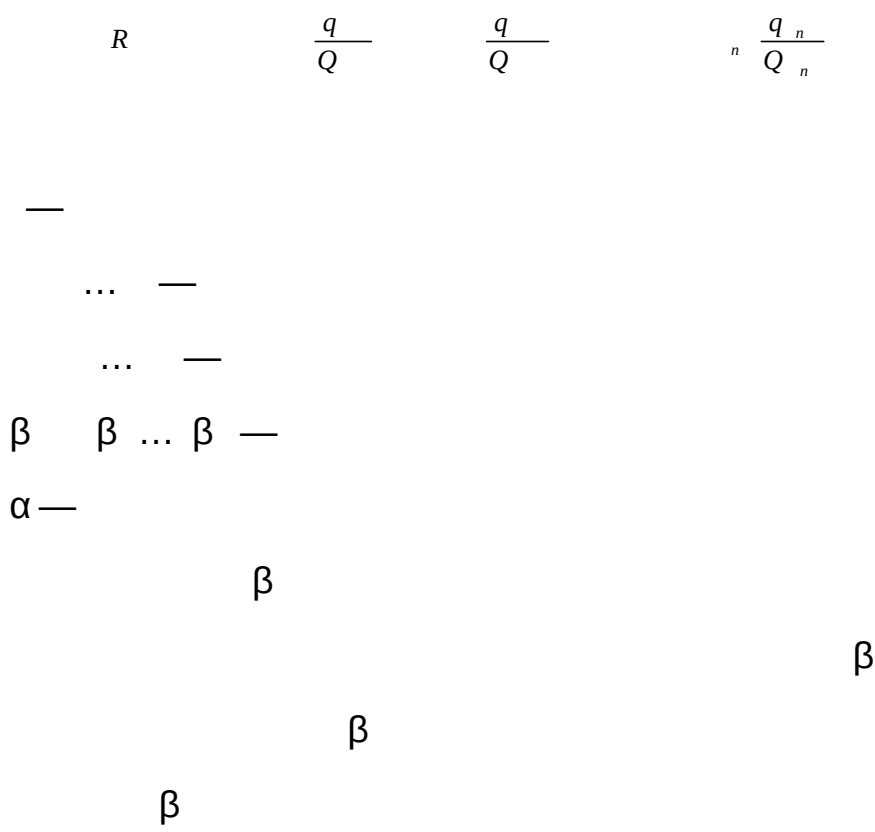
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3.5.1-1

3.5.1

3.5.3



3.5.3-1		β	
		β	

3.5.3-2	3.5.3-1	β
		β

$$R = \alpha \left(\beta_1 \frac{q_1}{Q_1} + \beta_2 \frac{q_2}{Q_2} + \dots + \beta_n \frac{q_n}{Q_n} \right)$$

× ×

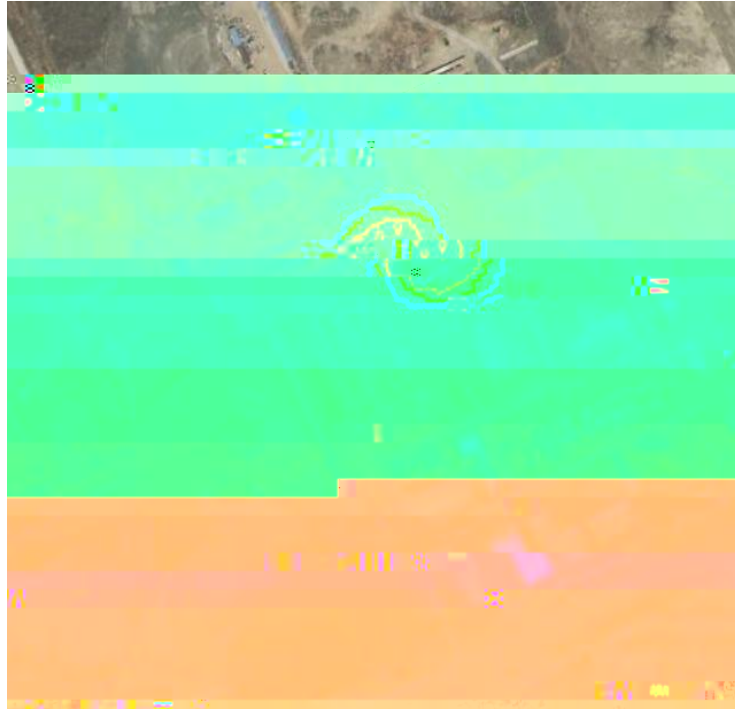
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3.6.1

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3.6.3-1

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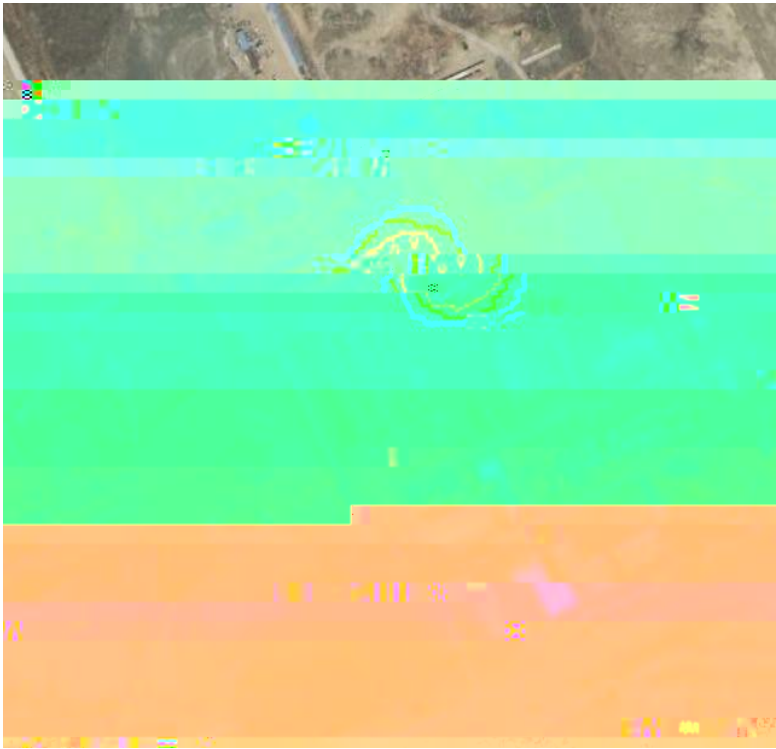
1.59 7.79 15.15 2.34

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					3.59	14.33	27.87	7.92

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3.6.3-3

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3.6.3-2

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1	MTBE	-			8.38
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		-			12.52
		-			13.04
2	95#	-			15.23
		-			12.43
		-			22.75
		-			12.43

					m
3	95#	-			15.23
		-			14.90
		-			22.75
		-			14.90
4		-			13.16
		-			13.04
		-			19.65
		-			13.04
5		-			13.16
		-			14.90
		-			19.65
		-			14.90
6		-			15.42
		-			14.90
		-			23.03
		-			14.90

23.03m

3.6.4

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3.6.3-1

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2	MTBE/ /			-	76	-	-
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				20	97	2018 GB50160-2008 4.1.9	
3				-	15	-	-
				-	122	-	-
				40	349	2018 GB50160-2008 4.1.10	
				20	241	2018 GB50160-2008 4.1.9	

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GB50160-2008
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6	： 1. A 15m 2. B 12m 500m³ 10m B 3. A 10m 500m³ A 8m	2018 GB50160-2008 5.3.5	10.2m	
7	() , 3h	2018 GB50160-2008 6.1.1	()	
8	30	2018 GB50160-2008 6.1.2		
9	： 1. 150000m² 2. ” , 48m 3. 24m 50000m	2018 GB50160-2008 6.2.1	B 2000m ³	
10	B A 200m³ ： 1. 5000m³	2018 GB50160-2008 6.2.2		

2. 5000m³

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1. 600000m³

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11 240000m³

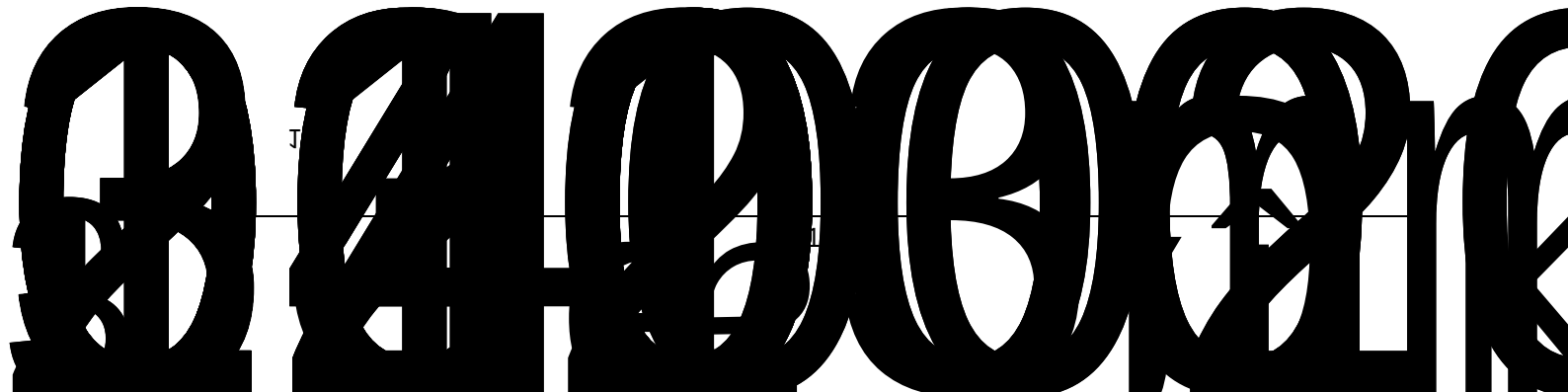
3. 120000m³ 30000

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$$4 \frac{1000 \text{m}^3}{\text{B}} \text{G} = 2018$$

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5.2.2

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5.3.1

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		2018 GB50160-2008		
7	1	10.0.2		
8	2	10.0.3		
9		10.0.7		
10		7.3.7		

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5.4.1-1

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5.4.2

5.4.2-1

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1	TB-01			
2	TB-02			
3	HX-06			GB/T18664
4	YM-04			
5	ZB-01			
6	ZB-02			
7	FZ-01			
8	FZ-02			
9	FZ-07			
10	FZ-09			
11	SF-01		3	
12	SF-03			
13	SF-04			
14	SF-08		4	
15	TL-01		n	
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1		1.0Mpa	1.6	2512				2023.5.18	2024.11.14
2		1.0Mpa	1.6	2955				2023.5.18	2024.11.14
3		1.0Mpa	1.6	2511				2023.5.18	2024.11.14
4		1.0Mpa	1.6	2777				2023.5.18	2024.11.14

5.4.2-6

1	A42C-25	0.70	0.75	FD2D-2023-W20-02984				2023.12.15	2024.12.14	
2	A42Y-25	0.70	0.75	FD2D-2023-W20-02985				2023.12.15	2024.12.14	
3	A42Y-25	0.70	0.75	FD2D-2023-W20-02986				2023.12.15	2024.12.14	

4	A42Y-25	0.70	0.75	FD2D-2023-W20-02987				2023.12.15	2024.12.14	
5	A42Y-25	0.70	0.75	FD2D-2023-W20-02988				2023.12.15	2024.12.14	
6	A42Y-25	0.70	0.75	FD2D-2023-W20-02989				2023.12.15	2024.12.14	

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GB 50351-2014

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2018

GB50160-2008

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GB50160-2008 6.2.11

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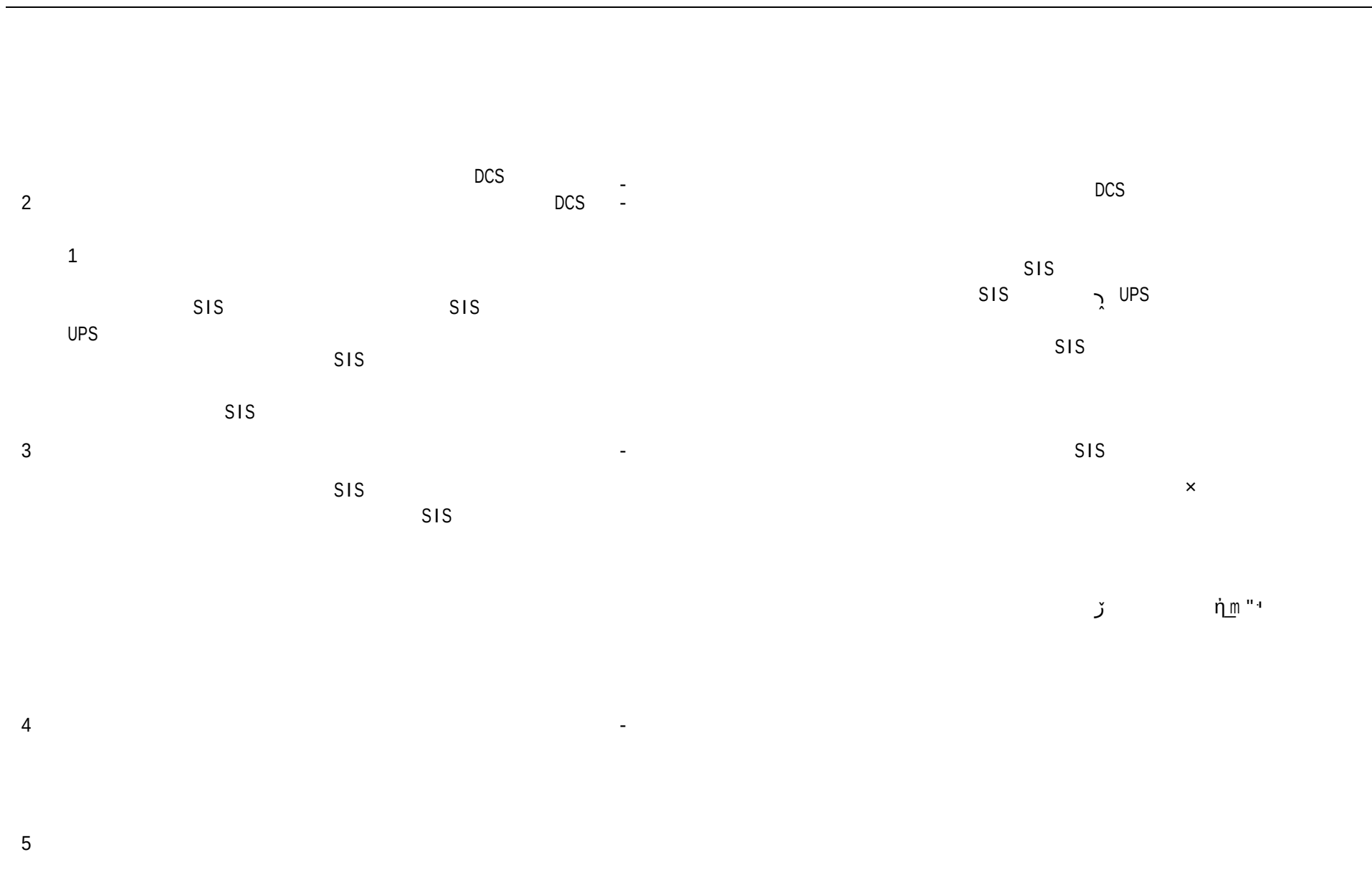
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7	DCS DCS	-		
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9	SQJ-1A 5	-		
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	m/ 3 100 μ m ≥ 300 μ m + GB4948 - - 15 108 Ω 1011 Ω 2 GB/T8923.1 Sa2.5 3 ≥ 320 μ m GB/T8923.1 Sa2.5 St3 80 μ m 90 μ m 80 μ m 250 μ m 2m GB/T8923.1 Sa2.5	GB/T8923.1		

	80 μ m 90 μ m 80 μ m 250 μ m 3 CTPU 3mm CTPU			
2	b.	-		
3	c. MTBE SH/T 3022-2019 B-2 1m 1.5m 0.8m 1.5m R1208-3, B12-8, 02J331 13 28 20m SY/T0447-2014	SH/T3022-2019 SY/T0447-2014		



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1	2018 2018	GB50160-2008 GB50016-2014	2018 GB50160-2008 2018 GB50016-2014	2018 GB50160-2008 2018 GB50016-2014 5.1.1-2
2	GB50160-2008 (GB50489-2009)	2018	2018 GB50160-2008 (GB50489-2009)	B 67.4m 31.9m 47.7m 3152.5m ² × 17.7m 230.1m ² 13
3	2018	GB50160-2008	2018 GB50160-2008	2018 GB50160-2008 5.1.1-3
4	GB50489-2009	2018	GB50489-2009	4

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2	(GB/T8163-2018) GBT12459-2017	(GB/T8163-2018) GBT12459-2017
3	RF	-
4	Sa2 1/2	

	2# 70%	2000KVA 22KW	1200KVA	200KVA		1200KVA	2000KVA 200KVA 22KW	2#
	10KV							0.4KV
2	0.4KV			-				
3			TN-S	-				

	30mm		30mm	
8	A WDZN-RYJS-2x2.5 mm ² DC36V	-	A WDZN-RYJS-2x2.5mm ²	
9		-	MTBE I I BT1 I I AT3 I I AT3 Exd I I BT4 Gb WF2 IP65	
10	10Ω 18m 2 ≤ 4Ω	-	18m 4 5mm 2 10Ω	
11	1.5m 30m	-	1.5m	

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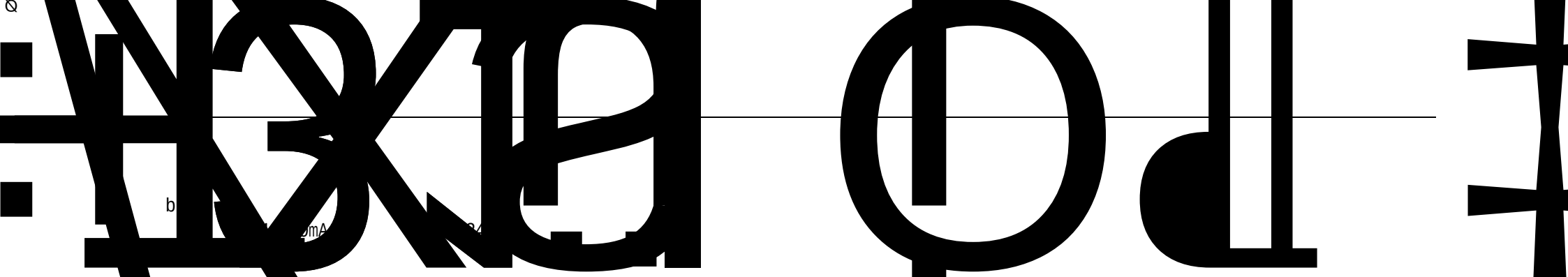
19		-		
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22	0.5m	-	0.5m	
23		-		
24	()	()	()	
25	DCS 1 UPS 7495W 150W 220VAC ± 5% 5ms 2h DCS SIS 1 1505W 50Hz ± 0.5Hz 10 80% UPS GDS 1 UPS 10kVA 9kW 5% 30min	-	DCS 1 UPS SIS GDS SIS GDS DCS 30min	

	I/O			
26	30	-		
27	40 AQ3035-2010 AQ3036-2010 30 SIS	40 AQ3035-2010 AQ3036-2010	SIS	
28	2022 52 “ GB/T 50493-2019	2022 52 GB/T 50493-2019		
29	1 1 I/O A/D(D/A) DCS MCS DAS	-	1 1 I/O A/D(D/A) I/O	

SCS DCS DAS MCS

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d. 4 20mA 24VDC

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f. 4 20mA
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54	(GB50116-2013)	(GB50116-2013)		
55	GB 50116-2013 6.6 60dB 15dB	GB 50116-2013 6.6		
56	1Ω 3081-2019 5.3.1 SH/T	SH/T 3081-2019 5.3.1	1Ω	
57	4 SH/T 3081-2019 6.2.5	SH/T 3081-2019 6.2.5	4	
58	15m	-	15m	
59	IP65	-	IP65	

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9	(HG20571-2014) 4.6.2	(HG20571-2014) 4.6.2		
10	1.05m 2m	-	1.05m 2m	
11	1 () 2 (GB4053.1-2009) 3 (GB4053.2-2009) (GB4053.3-2009)	1 (GB4053.1-2009) 2 (GB4053.2-2009) 3 (GB4053.3-2009)		
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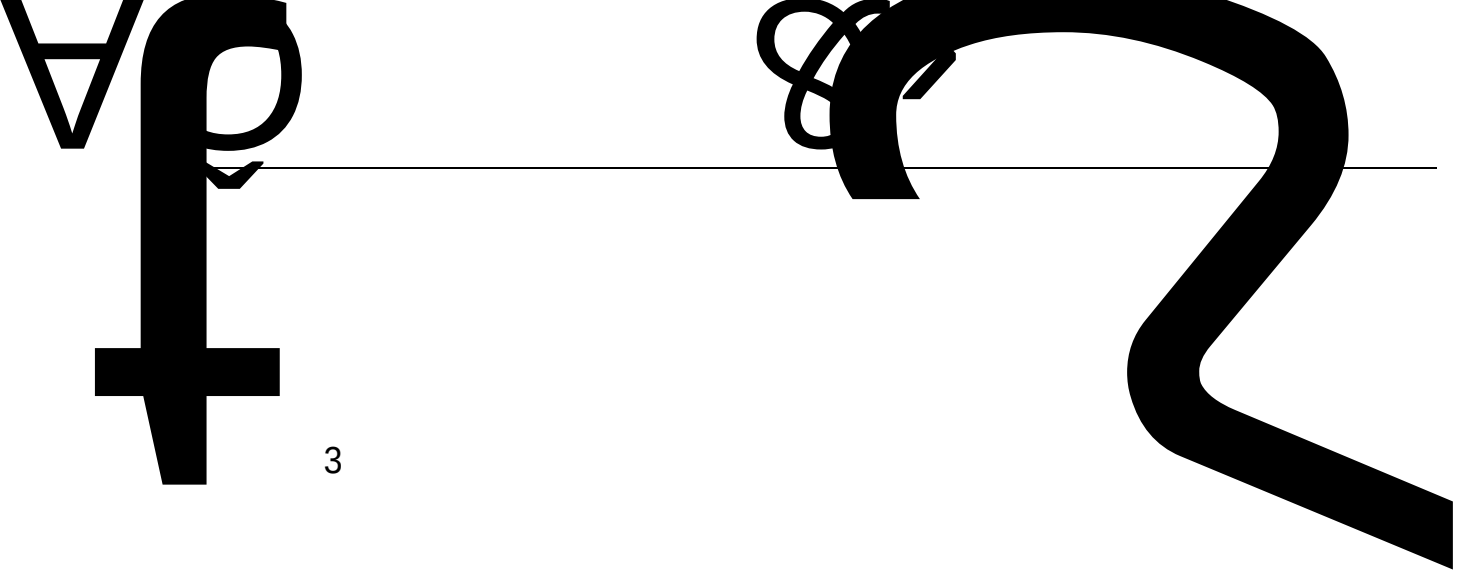
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0.20 3.20m 0.47 7.32m
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