

Code for construction and acceptance of

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.....	104	.....	105
C	.....	G	
D	.....	.....	105
E	.....	H (PU)	.....
F			105

## 1

1.01 ( )

1.02

1.03

1.04

## 2

2.01 pressure pipeline  
0.1MPa

2.02 non-pressure pipeline  
0.1MPa

2.03 rigid pipeline

2.04 ( )  
flexible pipeline

2.05 rigid joint of pipelines

2.06 flexible joint of pipelines

2.07 chemical material pipelines ( ) (UPVC)

2.08 (PE) (PP)  
canal ditch channel

2.09 ( )  
trench installation

2.010 trenchless installation ( )  
( )

2.011 pipeline cross processing

2.012 pipe jacking method

2.013 shield method

- 2 0 1 6** pipe ramming method  
( )
- 2 0 1 7** sunken pipeline method immersed pipeline method
- 2 0 1 8** bridging pipeline method
- 2 0 1 9** working shaft
- 2 0 2 0** leak test
- 2 0 2 1** water pressure test for pressure pipeline  
( )
- 2 0 2 2** water obturation test for non-pressure pipeline  
( )
- 2 0 2 3** pneumatic pressure test for non-pressure pipeline

**3**

3.1

**3 1. 1**

**3 1. 2**

**3 1. 3**

( )

**3 1. 4**

( )

**3 1. 5**

**3 1. 6**

**3 1. 7**

**1**

**2**

200m

1

**3**

**4**

**5**

( )

**3 1. 8**

3.1.8

GB

50026

CJJ 8

3.1.8

		204 $L(\text{mm})$
		6 $n(\text{mm})$
		40 $n( )$
		1 1000
		1 3000
		1 5000

1  $L_0$  (km)  
 2  $n$

**31.9** ( )

<b>2</b>	( )	80
	1.5	
<b>3</b>		
<b>4</b>		
<b>3 2 4</b>		
<b>1</b>		
<b>2</b>		
<b>3 2 5</b>	( )	
<b>1</b>	( )	
<b>2</b>		
<b>3</b>	( )	
<b>4</b>		
<b>3 2 6</b>	( )	
<b>1</b>	( )	( )
<b>2</b>		
<b>3</b>	( )	( )
<b>4</b>		
<b>5</b>		
<b>3 2 7</b>		
<b>1</b>		
<b>2</b>		
<b>3</b>		
<b>4</b>		( )
<b>3 2 8</b>		( ) (
<b>)</b>		
<b>3 2 9</b>		( )
<b>3 2 10</b>	( )	( )
<b>3 2 11</b>		
<b>3 2 12</b>		
<b>3 2 13</b>		
<b>3 2 14</b>		
<b>3 2 15</b>		

---

<b>4 1.1</b>	( )				
<b>4 1.2</b>		( )			GB 50141
<b>4 1.3</b>					
<b>4 1.4</b>					
<b>1</b>					
<b>2</b>	( )				
<b>3</b>					
<b>4 1.5</b>					
<b>4 1.6</b>					
<b>4 1.7</b>					
<b>4 1.8</b>					
<b>1</b>					
<b>2</b>					
<b>3</b>					
<b>4 1.9</b>					
<b>1</b>					
5MPa					
<b>2</b>					
<b>3</b>					
<b>4</b>					
<b>5</b>					
<b>6</b>		900mm			
<b>7</b>					
			4.2		
<b>4 2.1</b>					
<b>1</b>					
<b>2</b>					
<b>3</b>					
<b>4</b>					
<b>5</b>					
<b>6</b>			( )		
<b>4 2.2</b>	( )		( )		0.5m
<b>4 2.3</b>					
<b>1</b>					
1 2					
<b>2</b>					
<b>4 2.4</b>					
<b>4 2.5</b>					150m
<b>4 2.6</b>					

4 2 7

4.3

4 3 1

- 1
- 2
- 3
- 4
- 5
- 6

( )

4 3 2

$B$  ——— (mm)  $D_0$   $2(b_1 b_2 b_3)$  (4.3.2)  
 $D_0$  ——— (mm)  
 $b_1$  ——— (mm) 4.3.2  
 $b_2$  ——— 150 200mm  
 $b_3$  ——— (mm)

4.3.2

$D_0$	$b_1$ (mm)	
$D_0$ 500	400	300
	300	
500 $D_0$ 1000	500	400
	400	
1000 $D_0$ 1500	600	500
	500	
1500 $D_0$ 3000	800 1000	700
	600	

- 1  $b_1$
- 2  $b_1$  800mm
- 3  $b_1$

4.3.3 5m

( )	( )		
	1 1.00	1 1.25	1 1.50
( )	1 0.75	1 1.00	1 1.25
	1 0.67	1 0.75	1 1.00
( )	1 0.50	1 0.67	1 0.75
	1 0.33	1 0.50	1 0.67
	1 0.10	1 0.25	1 0.33
( )	1 1.25	—	—

4 3 3

5m

4.3.3

4 3 4

- 1 ( )
- 2

- 3 0.8m 1.5m

**4 3 5**

**1**

3m

2m

**2**

0.8m

0.5m

1.5m

**3**

**4 3 6**

**1**

**2**

15m

**3**

3m

**4 3 7**

**1**

200 300mm

( )

**2**

**4 3 12**

- 1
- 2
- 3

**4 3 13**

4.4

**4 4 1**

**4 4 2**

- 1
- 2

150mm

**4 4 3**

- 1
- 2

100mm

4

**2 . 4**

1

1

1

**4 5 7**

**4 5 8**

**4 5 9**

**4 5 10**

**1**

**2**

300mm

500mm

**3**

**4**

**5**

**6**

**7**

**8**

**9**

2km/h

200mm

**4 5 11**

**1**

**2**

800mm

**3**

3

4

4.6.1  
4.6.1

		(mm)			
1			± 20		3
			20 200		
2				6	3
3				6	3

4 6 2

GB 50202

1

2

3

4

5

6

50mm

1.5

4 6 3

1

10000m<sup>2</sup>

2

3

4.5.12

)

( 50m)

3

100m

(

4

4.6.3-1

4.6.3-2

4.6.3-1

		( )			
1			93	95	100m
2			87	90	
		500mm	87± 2( )		
			90( )		(

500mm

1000m<sup>2</sup> 3  
)

GB/

5

5.1

**5.1.1**

GB 50141

**5.1.2**

**5.1.3**

**5.1.4**

5.1.4

5.1.4

	1600		1800			500
--	------	--	------	--	--	-----

2

5 1. 11

5 1. 12

5 1. 13

5 1. 14

5 1. 15

1

2

3

5.1.

5.1.

1

	<b>150—200</b>
--	----------------

	(mm)
$D_i$ 600	$\pm 20$
$D_i$ 600	$\pm 0.0035$

**3**  
**4**

5.3.14

5.3.14

	( )	(mm)	( )
Q 2	-20	40	100 150
Q 2 Q 3	-10		100 200
16Mn	0		

**5 3 15**

**1**  
**2**  
**3**  
**4**

5.3.15

5.3.15

$D_0$ (mm)	(mm)	( )
350 500	50 60	5
600 700	60 70	6
800	80 100	400mm

**5 3 16**

800mm

**5 3 17**

**1**  
**2**  
**3**  
**4**

5.3.2-1

10

**5**

3

**5 3 18**

10

2 3

**5 3 19**

**1**  
**2**  
**3**  
**4**

5.4

**5 4 1**

**5 4 2**

**1**  
1)

1/3

2)

3)

**2**

1)

2)

3)

30MPa

4)

5)

7d

14d

**3**

5.4.2

5.4.2

$D_i$ (mm)	(mm)	
500 700	8	
800 1000	10	
1100 1500	12	14
1600 1800	14	16
2000 2200	15	17
2400 2600	16	18
2600	18	20

5.4.3

1

1) ( )

GB/T 8923

Sa2 ( )

2)

20 40 $\mu$ m

60 100mm

2

3

1)

2)

3)

4)

5)

85

5.4.4

5.4.4-1

5.4.4-2

5.4.4-3

5.4.4-1

( )	( )	( )
(mm)	(mm)	(mm)

(1) —

(2) (

1.5mm)

(3)

(4) (

1.0 1.5mm)

(5)

(6) <

1.0 1.5mm)

(7)

(1)

(2) (

(3)

(4) (

4.0

(5)

(6) (

(7)

(8)

(9)

( 1.5mm)

( 1.0 1.5mm)

( 1.0 1.5mm)

( 1.0 1.5mm)

5.5

(4)	(4)	(4)
	(5)	(5)
	(6)	(6)
		(7)
		(8)
		(9)

---

<b>1</b>	5.4.5	1	
<b>2</b>			
<b>3</b>			
<b>4</b>			
<b>5</b>			24h
<b>6</b>			
<b>7</b>		7d	
<b>5 4 9</b>			

---

<b>3</b>			0.3m	0.3m
<b>4</b>		10m	10m	10m
<b>5</b>	2		0.5m	
10m				
<b>5 4 15</b>				
<b>1</b>				
<b>2</b>				
<b>3</b>				

---

				10mm	
<b>5 6 7</b>					
1	0.5	1.5mm		3	
2	10mm×	10mm		20	
3					
<b>5 6 8</b>					
1					
2					
3				3	4h
4					
				700mm	700mm

- 2**
- 3**
- 4**
- 5**
- 6**
- 7**
- 1)
- 2)
- 3)
- 4)
- 5)

5mm

5.7.2

5.7.2

$D_i$ (mm)	( )		( )	
	(mm)	(mm)	(mm)	(mm)
600 1400	15	—	—	—
1200 1400	—	25	—	—
1200 4000	—	—	25	25

**5.7.3**

**5.7.4**

400 500	1.5	
500 $D_i$ 1000	1.0	2.0
1000 $D_i$ 1800	1.0	1.0
$D_i$ 1800	0.5	0.5

5.9

**5.9.1**



**5 10 3**

**1**

**2**









- 6)
- 7)
- 8)
- 5**
- 1)
- 2)
- 3)
- 4)
- 5)
- 6)
- 7)

( )

<b>6</b>			
1)			
2)			
3)	100mm		500mm
4)			
5)			
<b>7</b>			
<b>6 1. 10</b>			
1			
2			GB/T 11836
3	JC/T 640		
	5		
4			
5			
6	5.6.5		
7			
<b>6 1. 11</b>			
1			
2			
3			
4			
5		3	4
6			
<b>6 1. 12</b>			
<b>6 1. 13</b>			5
1			
2			

---

<b>2</b>				( )	
<b>3</b>		"			"
<b>4</b>					
<b>5</b>					
<b>6</b>					
<b>7</b>					
<b>6 2 4</b>					
<b>1</b>					
<b>2</b>					
<b>3</b>					
<b>4</b>					
1)					
2)					500mm
3)					
4)					
<b>6 2 5</b>					
<b>1</b>					
1)					
2)					
				600mm	
<b>2</b>					
1)					
2)					
	600mm				
<b>3</b>					
<b>6 2 6</b>					
<b>1</b>					
<b>2</b>					
<b>3</b>					
<b>4</b>					
1)					
2)	<b>5 6 272</b>	<b>3</b>			
		<b>2</b>	)	)	)
					2



	$N_F / 4D_g^2 P$	$P$
1 $D_g$ —	(m)	
2 $R$ —	(kN/m <sup>2</sup> )	R 300 500kN/m <sup>2</sup>
6.3.4-2		$f$ (kN/m <sup>2</sup> )
	30 50	50 80
	80 11.0	11.0 16.0
	30 40	40 7.0
	7.0—10.0	10.0 13.0
	$f$ 3.0 5.0kN/m <sup>2</sup>	

**6 3 5**

- 1
- 2
- 3
- 4

**6 3 6**

- 1
- 2
- 3

- 4
- 1)
- 2)

- 3)
- 5
- 6

**6 3 7**

- 1
- 2

( )

- 3

( )  
135°

15mm( 6.3.7)

- 4

"

"

- 5
- 6
- 7
- 8

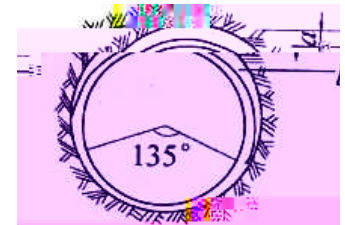
3 5

**6 3 8**

- 1
- 2
- 3
- 1)

300mm

1000mm



6.3.7

a—  
b—

2) 30m 300mm

3)

4)

5)

**4**

( )

**5**

1)

2)

3)

4)

5)

**6 3 9**

**1**

**2**

**3**

**4**

**5**

**6 3 10**

**1**

**2**

**3**

**4**

**5**

**6 3 11**

**1**

1)

2)

3)

**2**

**3**

— u ) 1

**6 3 11**

901(.,)-0.58G 11.6603( )5\$μ)-250.29( (-)10.7901(NJ)-0.58017.7901(°)-0.58017X9 +)1 +< ^ ° Ū 4»Kˆ4§ X « o,X?U  
"É1 0 Td [(,p1( °)10.79(#ˆ)10.7903.28306 0 Td1 Tj /R11 10\_1 )-0.580"É1 0 Td [( n , Ūä... B ˆŁ\$¥| °·L \$† ×



- 1)
- 2)

1			
2			70mm
3	± 2		± 3
4			
5			
6 4 3			
6 4 4			
6 4 5			
1			
2			
3		50 100	
4			
5		100	
6 4 6			
1			
2			
3			
4			
5			
6			
7			
8			
9			
10		1/3	
11			
6 4 7			
1	2	.58017(M6)100.58017(A')-250.29(-)-2	

- 8
- 9
- 6 4 9
- 1
- 2
- 3 150 0.2 0.5MPa
- 4
- 6 4 10 ( )
- 6 4 11 6.4.11 ( )

6.4.11

		5m 30m	20m 1 /2d /7d	30m 1 /d 50	2 /d 50m 1
		5 10	10 1 /2d	1 /d 50	50 1 /7d

6 4 12

- 1
- 2
- 3
- 4
- 5
- 6 4 13
- 1
- 2
- 3
- 4

6 4 14

- 1
- 2
- 3
- 4
- 5
- 1)
- 2)
- 3)
- 4)
- 5)

200mm

GB 50141

GB 50204

"

"

2/3

3m

2m

6.5

**651**

**652**

**653**

1

1) 3 4m 40 50mm

2)

3)

1m

4)

15°

**2**

**3**

1)

2)

3)

0.15 0.3MPa

0.5MPa

2min

4)

5)

4 8h

**4**

1)

2)

± 100mm

± 200mm

3)

4)

5)

100

3

**654**

**1**

**2**

3m

**3**

**4**

2.5m

**5**

**6**

2 ( )

**655**

**1**

**2**

15m

**3**

**4**

1)

2)

3)

4)

5)

**5**

1)

2)

2.5

5 7

7 10

3)

15mm

4)

6.5.5

6.5.5

(mm)

( )      Q 15      Q 30      Q 60      1.20

- 1)
- 2)
- 3) 100mm
- 4) 10mm
- 5) 600mm

$D_k$ ——	(m)	1.2—1.5		
$D_0$ ——	(m)			
$R_a$ ——	(kN/m <sup>2</sup> )		500 600kN/m <sup>2</sup>	800
	1000kN/m <sup>2</sup>			
$L$ ——	(m)			
$f_i$ ——		(kN/m <sup>2</sup> )	6.3.4-2	
<b>7</b>				
1)				
2)				
3)				5
4)				
<b>8</b>				
<b>6 6 3</b>				
<b>1</b>				
<b>2</b>				
<b>3</b>				
<b>4</b>				

3) ( )

4) ( )

**5**

1)

2)

3)

4)

5)

6)







3		$\pm 1^\circ$		4
4		$\pm 0.5\text{mm}$		
5		$\pm 1\text{mm}$		3

4

5

6.7.5-2

6.7.5-2

--	--	--	--

(mm)

	(mm)		
<b>1</b>			

1			15	5	4	
			20			
2			2		1	
3			2			
4			$8\%d_i$		4	
5			$\pm 150$		1	
			$\pm 100$			
6			$\pm 150$			

## 6.7.7

1

2

1

3

G

4

F F

**3**

6.7.8

6.7.8

		(mm)		
<b>1</b>		$\pm 30$	<b>4</b>	<b>2</b>
<b>2</b>		$\pm 30$	<b>1</b>	

2m

3

**4**

**6.7.9**

**1**

1)

2)

**2**

1)

2)

**3**

1)

2)

20m

40m

**4**

6.7.9-1

<b>1</b>	( )		<b>200mm</b>		<b>2</b>	
			$\pm 20\text{mm}$		<b>1</b>	
		( )	<b>100mm</b>		<b>2</b>	
			$\pm 30\text{mm}$		<b>1</b>	
			$\pm 20\text{mm}$		<b>2</b>	
			<b>20mm</b>		<b>3</b>	
<b>2</b>			$\pm 30\text{mm}$ $\pm 50\text{mm}$		<b>2</b>	
			<b>5‰</b>		<b>2</b>	
			$\pm 30\text{mm}$		<b>2</b>	
			<b>2'</b>		<b>1</b>	
			$\pm 100\text{mm}$		<b>1</b>	
			$\pm 50\text{mm}$		<b>1</b>	

1)

2)

3)

6.7.9-1

6.7.9-1

**5**

1)

1) 30m 2 ( 1 28d )

2) 30m 1

4

5

6

7

6.7.11-1 6.7.11-2

6.7.11-1

1	( )	± 10mm	20m	1	
2	( )	± 10mm	20m	2	
3		3‰		2	
4		2mm	5m	2	

6.7.11-2

		(mm)			
1		30	5m	2	1
2		20 30	20m	1	

6.7.12

1

2 ( ) ( )  
5

3

7.1.7 7

4

5 ( ) ( )

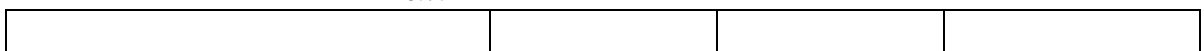
6

7

8

6.7.12

6.7.12



---

(mm)

7.1

7.1.1

7.1.2

( )

7.1.3

7.1.4

7.1.5

2

7.1.6

7.1.7

1

2

3

—

4

5

5

5

6

( )

7

( )

2

1.0MPa

10min

7.1.8

- 1)
- 2)
- 3)
- 2**

- 3**
- 4**

- 5**

**7.2.3**

- 1**
- 2**
- 3**

- 4**
- 5**
- 6**
- 7**

- 8** ( )

- 9**

- 10**

- 11**

- 12**

- 13**

**7.2.4**

- 1**
- 2**

- 3**

- 1) ( )

- 2)

- 3)

- 4**

- 1)

(7.2.4)

7.2.4

$B D_0 2b 1000$

(7.2.4)

$B$ —

(mm)

$D_0$ —

(mm)

$b$ —

(mm)

- 2)

- 3)

7.2.4

- 5**

7.2.4

	(mm)		
		2 5m	2 5m
	$D_0 2b$ <b>2500 4000</b>	<b>1 3 5 4 0</b>	<b>1 5 0 6 0</b>

	$D_0$ 2b 2000 1000	1 3 0 3 5	1 3 5 5 0
	$D_0$ 2b 1800 3000	1 2 5 3 0	1 3 0 4 0
	$D_0$ 2b 1500 3000	1 2 0 2 5	1 2 5 3 5
	$D_0$ 2b 1200 3000	1 1.5 2 0	1 2 0 3 0
	$D_0$ 2b 1200 2000	1 0 5	1 1.0

6  
7.25  
1  
2

MS(A)10.7901(>

X 6





<b>6</b>			
<b>7</b>			
<b>8</b>			
<b>9</b>			
<b>10</b>			
<b>7.34</b>			
<b>1</b>			
<b>2</b>			
<b>3</b>			
<b>4</b>	( )		
1)			
2)			
3)			
4)			
<b>5</b>			
<b>7.35</b>	( )		
<b>7.36</b>	( )		
<b>7.37</b>			
<b>1</b>			
<b>2</b>			
<b>3</b>			
1)			
2)			( )
3)			
4)		1/2	
<b>7.38</b>	( )		
<b>1</b>			
<b>2</b>			
<b>3</b>			60°
<b>4</b>	( )		
<b>5</b>			
<b>6</b>	( )		
<b>7.39</b>			
<b>1</b>			
<b>2</b>			
1)			





		(mm)			
1		5		2m 1	2m
2		5		1	
3		5		2	

**3**

7.4.4-2

7.4.4-2

	1mm	3 /m	2mm . 3 /m
	4mm <sup>2</sup>	3 /m	8mm <sup>2</sup> . 3 /m
			Q 5mm 10mm <sup>2</sup> 2 /m
	" "		1.5mm 2 /m
			1mm

**4**

**5**

**6**

**7.4.5**

**1**

F F.0.3

**2**

**3**

7.4.5

--	--	--	--

**5**

**6**

**9**

7.4.8-2

7.4.8-2

<b>3</b>			
<b>4</b>			
<b>5</b>		300mm	
<b>8 2 3</b>			
<b>1</b>			
<b>2</b>			
<b>3</b>			
		30mm	50mm
<b>4</b>			





		(mm)			
1	( )	15		2	
2		± 15			

2

9.2.3

9.2.4

600mm

9.2.5

1

1.5

1.3 1.5

150mm

2

9.2.6

1

2

3

4

9.2.7

1

4.5.1 1

2

9.2.8

1

2

3

9.2.9

9.2.9

9.2.9

	$D_i$ (mm)	(h)
( )	$D_i$	24
( )	$D_i$	24
	$D_i$	24
	$D_i$ 1000	48
	$D_i$ 1000	72
( )	$D_i$ 1000	48
	$D_i$ 1000	72

9.2.10

1

9.2.10-1

9.2.10-1

(MPa)

	$P$	
	$P$	$P$ 0.5 0.9
	0.5	$2P$
	0.5	$P$ 0.5
( )	0.6	$1.5P$
	0.6	$P$ 0.3
	0.1	$1.5P$
	0.1	$1.5P$ 0.8

2

30min

3

15min

15min

30min

9.2.10-2

9.2.10-2

(

$D_i$	$P$	1
25	0.3	1400

**1** 30min 9.2.10 2 30min  
 70 70 30min  
**2**  
 1) ( V) AVmax 10 15  
 Vmax 1.2V P( ) (9.2.12)  
 V—— (L)  
 P—— (MPa)  
 E<sub>w</sub>—— E<sub>w</sub> 9.2.12

9.2.12

( )	(MPa)	( )	(MPa)	( )	(MPa)
5	2080	15	2140	25	2210
10	2110	20	2170	30	2230

E<sub>p</sub>—— (MPa)  
 D<sub>i</sub>—— (m)  
 e<sub>n</sub>—— (m)  
 V Vmax (2) (3) (4) V Vmax  
 2) 3min 30min 30min  
 3) 30min 60min 90min  
 0.02MPa  
 4)

**9.2.13**

**1** ( )  
**2** 2  
 0.2MPa  
**3** 2min  
**4** M10× 20mm  
**5**  
**6**

9.3

**9.3.1**

**9.3.2**

**9.3.3**

**1**

**2**

**3**

**4**

**5**

**9.3.4**

**1**

**2**

**3**

10m

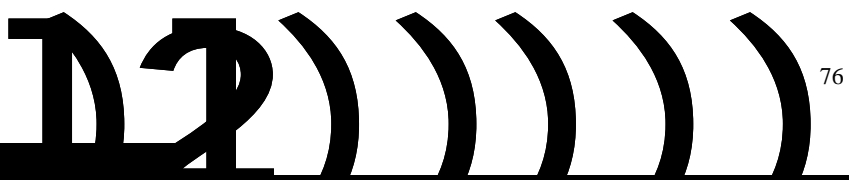
2m

2m

**4** D( )  
**935**

**1** 9.3.5  
 9.3.5

	$D_i(\text{mm})$	$[\text{m}^3/(\mathbf{24h} \cdot \text{km})]$	$D_i(\text{mm})$	$[\text{m}^3/(\mathbf{24h} \cdot \text{km})]$
--	------------------	---	------------------	---



(mm)			S ( )	(mm)			S ( )
300	—	—	1 45	1300	2000	1500	16 45
400			2 30	1400			19
500	2000	1500	3 15	1500			20 45
600			4 45	1600			22 30
700			6 15	1700			24
800			7 15	1800			25 45
900			8 30	1900			28
1000			10 30	2000			30
1100			12 15	2100			32 30
1200			15	2200			35







B.0.4-1 ( )


B.0.4-2 ( )

1				

( )

( )

2

B.0.4-3 ( )

1						
2						
3						
4		( )				
5		( )				
6						

B.0.4-4 ( )

C.0.3

	(mm)				(m)
	(MPa)	(MPa)	15min	(MPa)	[L/(min· km)]
		$t_1$	$t_2$	$T$ (min)	$W(L)$ $q$ [L/(min· km)]
	1				
	2				
	3				
	4				
	5				
	[L/(min· km)]				

D

D.0.1

1

24h

2

9.3.4

3

4

30min

$$q = \frac{W}{T \cdot L} \tag{D.0.1}$$

$q$ —— (L/min· km)

$W$ —— (L)

$T$ —— (min)

$L$ —— (m)

D.0.2

D.0.2

D.0.2

(mm)			(m)
(m)	(m)	$[m^3/(24h \cdot km)]$	

$t_1$

$t_2$

$T(\min)$

$q$   
 $W(L) [L/(min \cdot km)]$

**1**

**2**

E.0.1

**3**

0.05 0.20MPa

**F**

**4**

**G**

**GQ1**

< 1.3

< 1.4

< 1.5 ( )

< 1.6

H.2

< 21



---

( )  
( )

( )

3  
4

**3 244**

**4 3 1**

( )

**4 3 2**

2

)

4.3.2

"

"

3.2.1

( 4.3

( )

$D_0$

$D_i$

**4 3 3**

GB 50021

" " "

"

4.3.3

**4 3 4**

**4 3 5**

" "

( )

**4 3 7**

( )

200 300mm

**4 3 9**

**4 3 13**

4.4

**4 4 2**

150mm

**4 4 3**

**4 4 7**

360°

4.5

**4 5 3**



**5.2**

**5.2.1**

5.2.1

**5.2.2**

4

50mm

50mm

**5 4 11 5 4 15**

( )

5.5

**5 5 1**

5 . 115 (

**5 9 1**

(UPVC)

(HDPE)

5.9.3

CECS 17

CECS 164  
CJJ 101

HALF

" "

" "

**5.10**

**5 10 1**

2

GB 50141—2008

6.2.8

2

---

<b>6 1.7</b>	( )	( )	
<b>6 1.8</b>		( )	3.1.7
<b>6 1.10</b>			4
<b>6 2.2</b>		<b>6.2</b>	
<b>6 2.3</b>	5m		

**6 4 14**

**6.4**





2) " " 10.2.13.4

3)

4)

2

3

" "

C

**9.1.6**

**9.1.7**

F

**9.1.8**

( ) ( )

**9.1.9**

1.0km

5

**9.1.10**

**9.1.11**

**9.2**

**9.2.9**

( 9.2.9)

" " 10.2.8

" 48h"

" 24h"

**9.2.10**

1

9.2.10-1

( )

100 1400mm  
1400mm

2

C  
" " A  
D  
" " B  
E  
( J 10454-2004)  
F  
F GB 50208-2002 C  
G  
G.0.1 ( ) GB 50204-2002  
8.1.1  
H (PU)  
H