



**27456-87**

\*^

## Threaded pipe-line connections. Procedure of vibration strength testing

27456-87

4193

01.01.89

۸\*

20467-85

2\$.101—83.

23207-78                  27.002-83.

1.

1.1.

25,507—85

12

1.3.

1.4.

©

, 1988

2.

2.1.

 $-\lg N_{\text{ig}} = \lg \#;$ 

2.2.

0,95 0,99.

3.

3.1.

( ),

3.2.

, ,

3.3.

,

$$\frac{\tg}{R} \stackrel{5d}{*} < 0,025, \quad (1)$$

—,  $S_R$  —

, —

0,95.

4.

,

:

;

;

( ,  
.).

**4\***

**4.1.**

\*

**4\*2.**

,

**4.3.**

,

,

,

,

,

**4.4.**

;

;

;

**5.**

**5.1.**

,

**5.2.**

**5.3.**

0,9

**5.4.**

,

**5.5.**

6.

6.1.

6.2,

6.3\*

6.4.

6.5.

7.

7.1.

( , -) »

 $(N_f)$ 

7.2.

$$\sigma = \lg N \left( V = \left\lceil \frac{d \sigma}{d \lg N} \right\rceil \right) \text{ или } \lg \sigma = \lg N \left( m = \left\lceil \frac{d \lg N}{d \lg \sigma} \right\rceil \right);$$

(7V);

(ff^A).

2 \*

. 5

27456—87

7.3<sub>v</sub>

(0£/),

$$S_R = \sqrt{\frac{1}{n-1} \cdot (\bar{\sigma}_{Ri} - \bar{\sigma}_R)^2}. \quad (2)$$

7.4.

0,95 0,99.

7.5.

(<sub>o</sub>)

:

$$\psi = \frac{2\sigma_{-1}}{\bar{\sigma}_0} - 1 \quad (3)$$

8.

8.1.

1 2).

8.2.

(

3.

®

1. - .....
2. » ..
- 3.
- 4.
5. ...
- 6.
7. .....
8. .....

№  
π/π

( )

( )

.7

**27456-87**

2

1. ....  
2. - ....  
3. ....  
4. ....  
5. ....  
6. ....  
7. ....  
8. ....  
 ) ^ — : .....  
 ) > ( ) .....  
 ( ) .....

|       |   |   |            |      |    |   |     |   |  |
|-------|---|---|------------|------|----|---|-----|---|--|
| N'' / | - | R | ( V<br>tn) | Ng . | OR | - | sR> | - |  |
|       |   |   |            |      |    |   |     |   |  |

( )

( )

2-12- 16 X 1,5      24074-80

23358-87)  
20.

, ( ) , -

22526—77.  
(

12 X 1) -

— 16  
, 2,5 \* 10<sup>6</sup>

1.

| / .                      | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     |
|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| ,                        | 243,2 | 240,3 | 231,4 | 215,7 | 211,8 | 194,2 | 185,3 | 183,4 |
| <i>N<sub>9</sub></i> . . | 36,0  | 42,0  | 54,0  | 108,0 | 117,0 | 180,0 | 258   | 525   |

/

| / .     | 9     | 10    | 11    | 12    | 13    | 14    | 15    | 16    |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|
| ,       | 175,5 | 174,6 | 172,6 | 160,8 | 159,8 | 158,9 | 155,9 | 155,9 |
| 7V, . . | 531   | 345   | 381   | 1584  | 822   | 2235  | 1056  | 1275  |

$$N = - \cdot \ln(1+1) \exp(-\frac{aR}{| - 1 |}) \quad (1)$$

$$\begin{aligned} N &= \frac{1}{O_R} \cdot \frac{1}{a_R} \cdot \frac{1}{Q} \sim Nq \cdot Op \cdot \frac{1}{a_R} \cdot \frac{1}{Nf} \cdot Of \\ (1) & \end{aligned}$$

$$>' = \mathbb{R}^+ \cdot ,$$

$$\begin{aligned} \bar{O}_r &= \frac{? // \circ R}{* z / > \bullet (*, 2 /)} \\ &= \frac{* \left( \sum_{i=1}^{W} (2)^2 \right) / 1}{k \left\{ \sum_{i=1}^3 f_i \right\} - (EZy)^2} \cdot 2^10 \\ &= \frac{Q}{O_R} \cdot \frac{V_0}{,} \end{aligned}$$

$$\& - \circ 10^2 = ``-$$

-1020.

$$Z(o_r \cdot o_R)^2 = 421,83^2$$

$$\begin{aligned} O_r &= 156,36 \\ V_0 &= 39,89 \\ Q &= 7,72 \cdot 10^7 \end{aligned}$$

$$O_r = Q,$$

$$\begin{aligned} JV_G &= \frac{Q}{\circ R} = 4,94 \cdot 10 \\ &= 2,5 \cdot 10^6 \end{aligned}$$

---


$$So - \frac{|E|^2 < ``^2}{-----} = \sqrt{\frac{421,83}{-----}} = 5,3 \quad (2)$$

$\max = {}^aR^+ \llcorner = 159,18$  ,

$0R_{\min} = \sim * = " = 153,53$  ,

$= 2,132 ( = - 1 = 15 \quad 0,95);$

$\wedge \quad \text{---} \wedge * z_2 \sim 8,24$  ,

$\wedge \min " 5 * z_1 = 3,91$  ,

$, = 0,738, z_2 = 1,554 ( = 16 \quad 0,95) .$

$$= tg_k \quad \frac{2,132}{*16} \quad \frac{\text{----}}{*56,36} = 0,018.$$

1.

,  
; . . ( ) ; . . ; ;

2.

28\*10.87 4038

3.

4\*

|            |     |
|------------|-----|
| ,          | ,   |
| ,          | ,   |
| 25.101-83  |     |
| 25.507 -85 | 1.1 |
| 27.002-83  |     |
| 20467-85   |     |
| 22526 -77  | 3   |
| 23207-78   |     |
| 23358-87   | 3   |
| 24074 -80  | 3   |

19-11.87 , , 04.01.88 0,75 , , 0,75  
0,61 , , 2\$ 000 3 , ,

"3 " , , 1 2 3840, ,  
. , 3 , ,

" , , , 6. , 60/6