

ЭЛЕКТРОНАСОСНОЕ ОБОРУДОВАНИЕ

КАТАЛОГ
ПОСТАВЛЯЕМОГО
ОБОРУДОВАНИЯ



Общие сведения

| | |
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| Область применения герметичных насосов | 4 |
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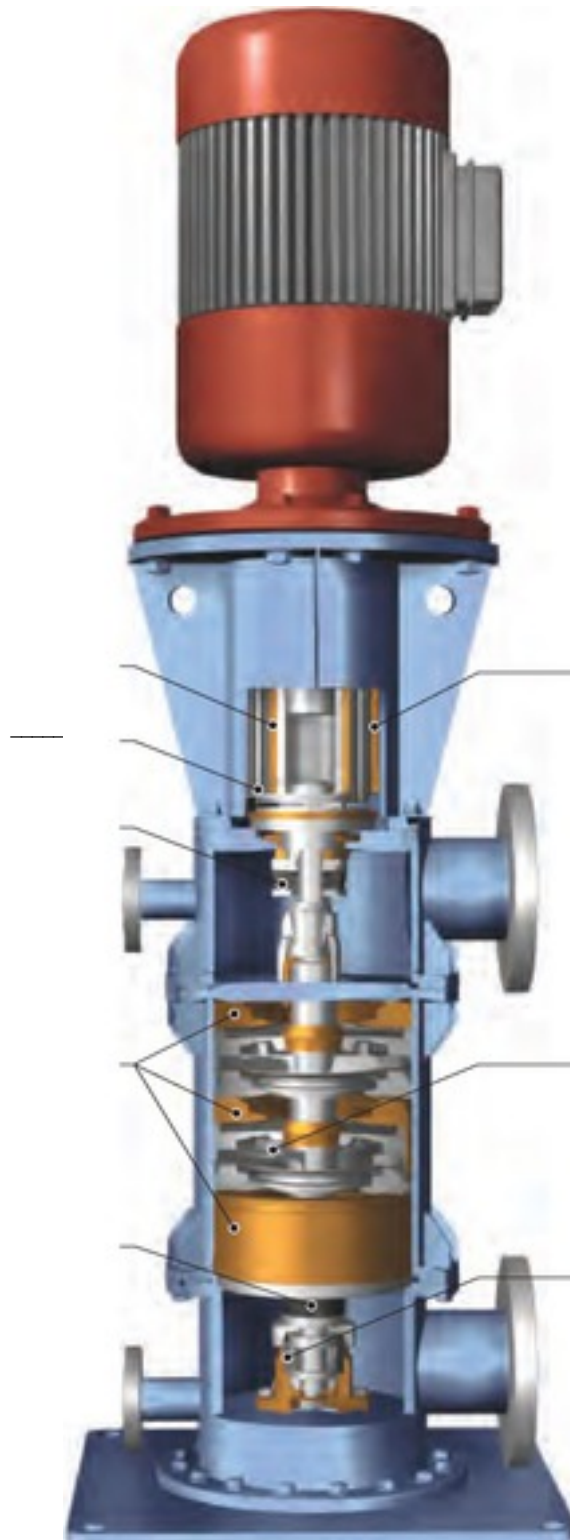
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Астана +7(7172)727-132
Белгород (4722)40-23-64
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
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Ижевск (3412)26-03-58
Казань (843)206-01-48

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Кемерово (3842)65-04-62
Киров (8332)68-02-04
Краснодар (861)203-40-90
Красноярск (391)204-63-61
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Тула (4872)74-02-29
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Ярославль (4852)69-52-93

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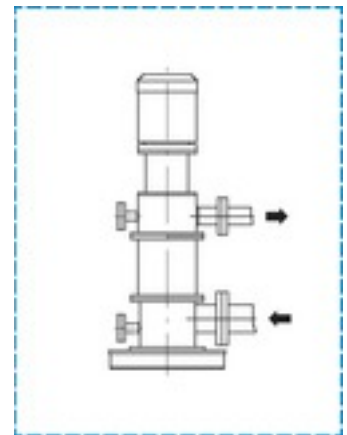
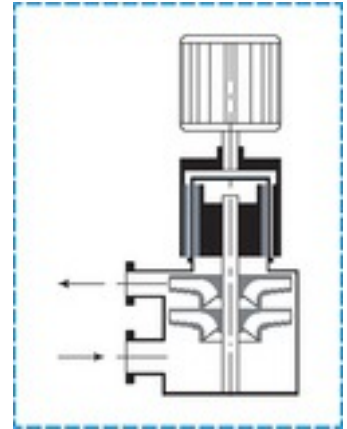
3631-002-00217805-2005.

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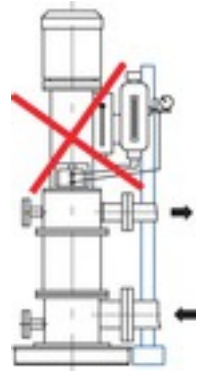
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0,6 200 3'



- - -150-100- - 2
 | 11 | 11 | | 11 | 11 |
 1 2 3 4 5 6 7 8

- - -25-50- -3,2- - 2
 1 2 3 4 5 9 10 6 7 8

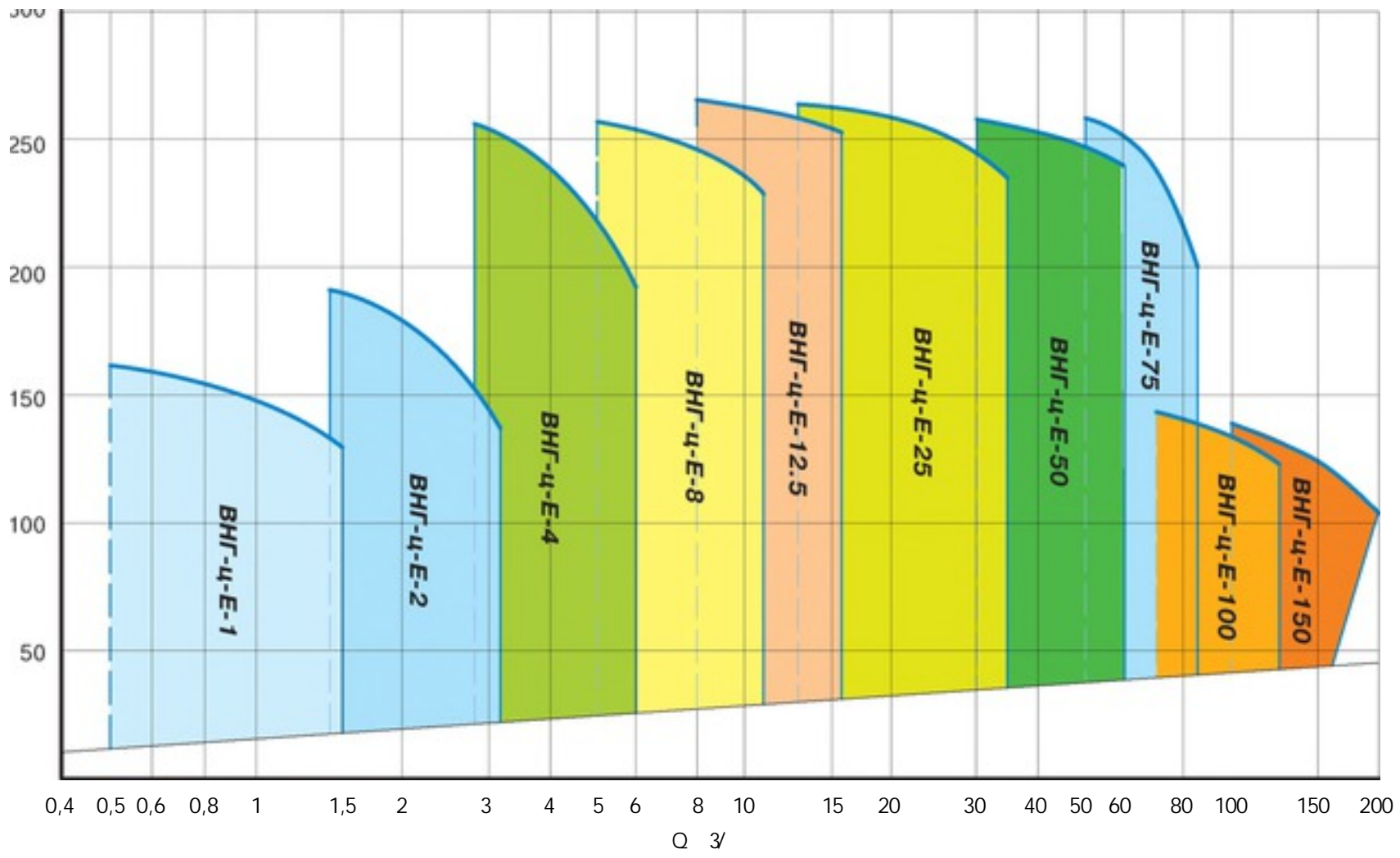
3631-002-00217805-2005

- 1 - - ;
- 2 - - ;
- 3 - - ;
- 4 -150 - , 3 ;
- 5 -100 - , ;
- 6 - , - ;
- 7 - - ;
- 8 -2 - ;
- 9 - - ;
- 10 -3,2 - , .

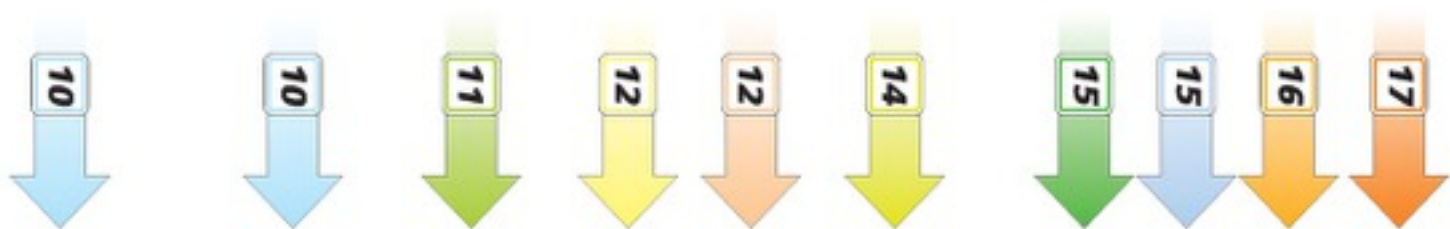
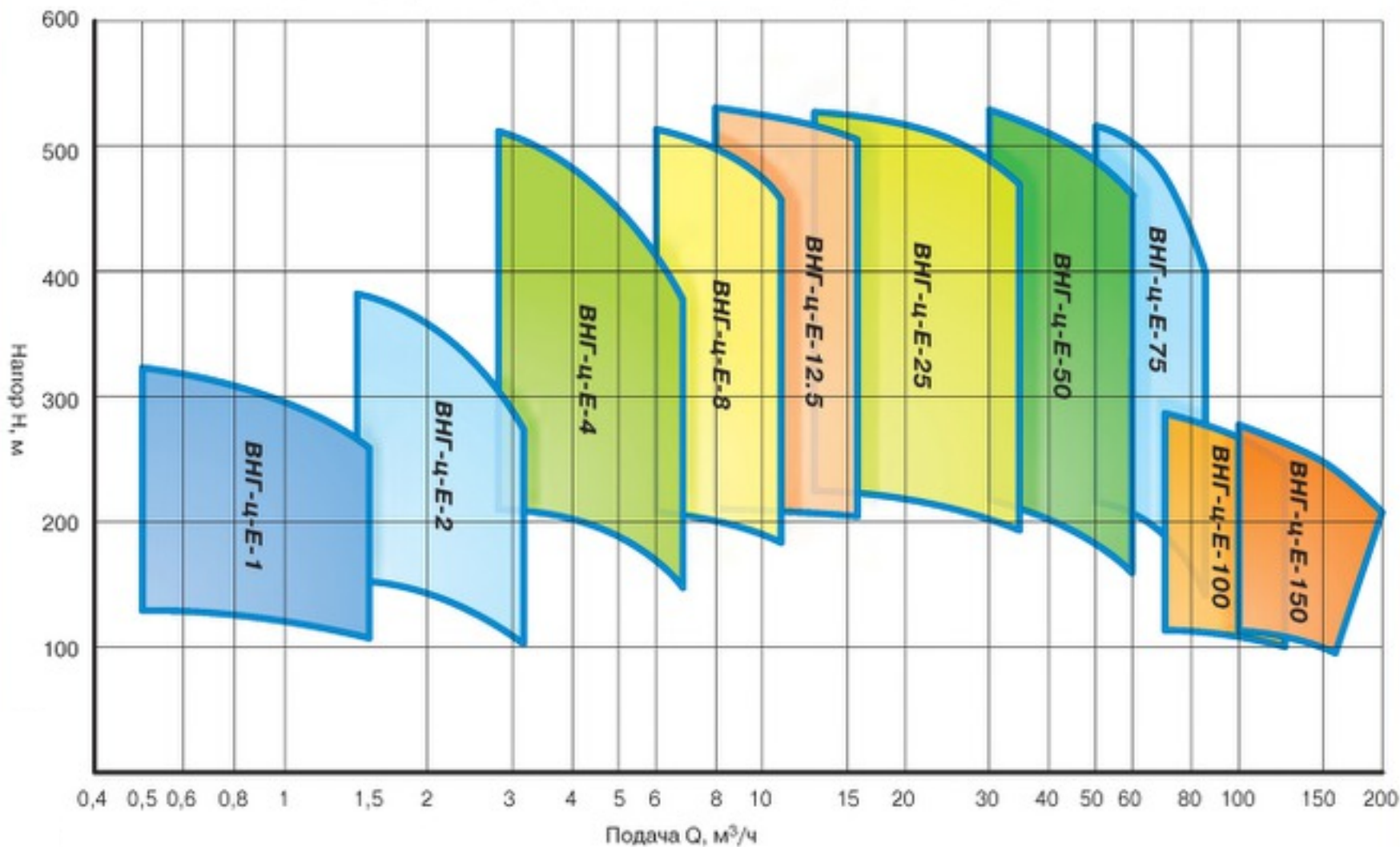
- - 09 2 /20 13;
 - - 12 18 9 ;12 18 10 ;
 - - 10 17 13 2 ;10 17 13 3 .

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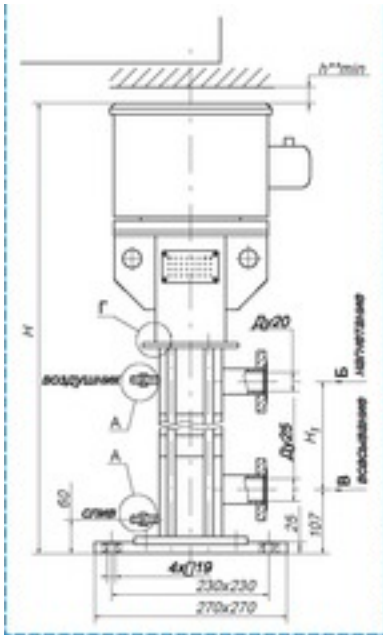


Сводный график полей работы сдвоенных электронасосных агрегатов типа ВНГ-ц-Е



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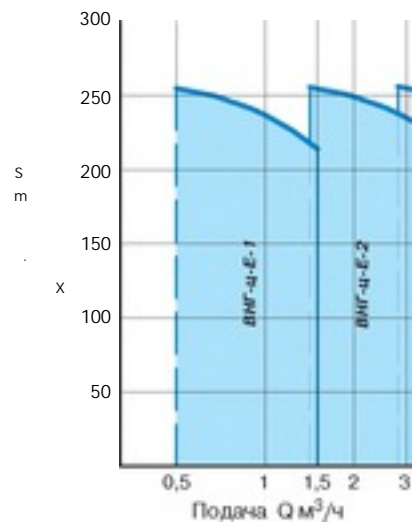
| | | | |
|------------|-----------|-----------|---------------|
| - - -1-20 | | 20...25 | 0,55/0,75 |
| - - -1-30 | | 30...35 | 0,55/0,75/1,1 |
| - - -1-40 | | 40...45 | 0,75/1,1/1,5 |
| - - -1-50 | | 50...55 | 0,75/1,1/1,5 |
| - - -1-60 | 0,6...1,8 | 60...70 | 1,1/1,5/2,2 |
| - - -1-80 | | 80...90 | 1,1/1,5/2,2 |
| - - -1-100 | | 100...110 | 1,5/2,2/3,0 |
| - - -1-120 | | 120...130 | 2,2/3,0 |
| - - -1-140 | | 140...150 | 2,2/3,0 |

- - -2

3

- - -1,2

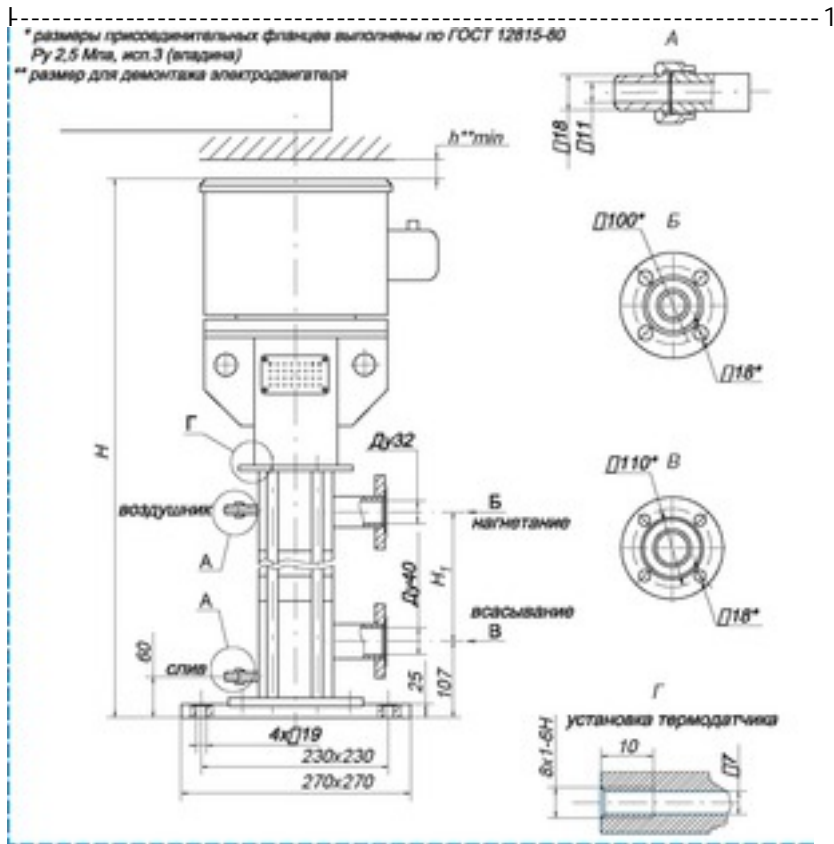
| | | | |
|------------|-----------|-----------|---------------|
| - - -2-20 | | 20...25 | 0,55/0,75/1,1 |
| - - -2-30 | | 30...35 | 0,75/1,1/1,5 |
| - - -2-40 | | 40...45 | 1,1/1,5 |
| - - -2-50 | | 50...55 | 1,1/1,5/2,2 |
| - - -2-60 | 1,3...3,3 | 60...70 | 1,5/2,2 |
| - - -2-80 | | 80...90 | 1,5/2,2/3,0 |
| - - -2-100 | | 100...110 | 2,2/3,0 |
| - - -2-120 | | 120...130 | 2,2/3,0/4,0 |
| - - -2-140 | | 140...150 | 3,0/4,0 |
| - - -2-160 | | 160...175 | 3,0/4,0/5,5 |



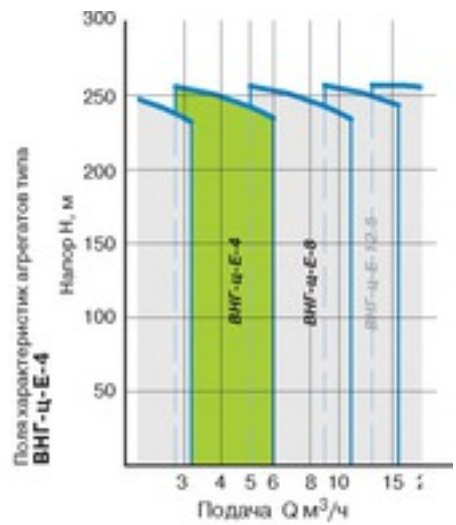
- - -4

3/

| | | | |
|------------|-----------|-----------|-------------|
| - - -4-20 | | 20...25 | 0,75/1,1 |
| - - -4-30 | | 30...35 | 1,1/1,5/2,2 |
| - - -4-40 | | 40...45 | 1,5/2,2 |
| - - -4-50 | | 50...55 | 1,5/2,2/3,0 |
| - - -4-60 | | - | 2,2/3,0 |
| - - -4-80 | | 80...90 | 2,2/3,0 |
| - - -4-100 | 2,8...7,0 | 100...110 | 3,0/4,0 |
| - - -4-120 | | 120...130 | 4,0/5,5 |
| - - -4-140 | | 140...150 | 4,0/5,5 |
| - - -4-160 | | 160...170 | 4,0/5,5 |
| - - -4-180 | | 180...190 | 4,0/5,5/7,5 |
| - - -4-220 | | 220...230 | 5,5/7,5 |
| - - -4-240 | | 240...250 | 5,5/7,5 |



Габаритный чертеж агрегатов электронасосных типа ВНГ-ц-Е-4



Положительные характеристики агрегатов типа ВНГ-ц-Е-4

Напор H, м

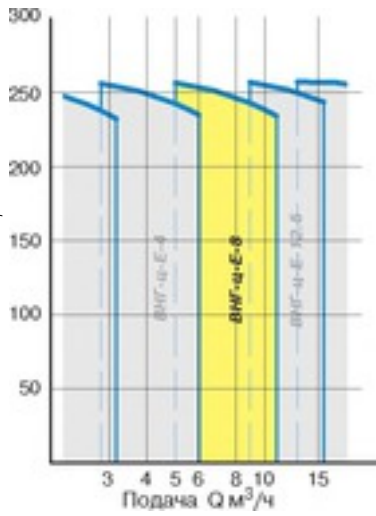
Поддача Q, м³/ч



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- - -8



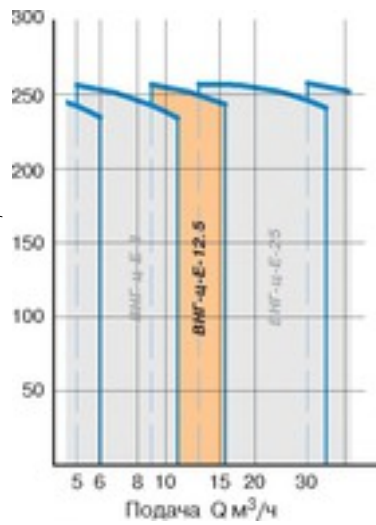
| | | |
|------------|-----------|------------|
| - - -8-25 | 25...30 | 3/4/5,5 |
| - - -8-50 | 50...60 | 4/5,5/7,5 |
| - - -8-75 | 70...80 | 5,5/7,5/11 |
| - - -8-100 | 80...110 | 7,5/11/15 |
| - - -8-125 | 100...130 | 11/15/18,5 |
| - - -8-150 | 130...160 | 15/18,5 |
| - - -8-175 | 160...180 | 15/18,5/22 |
| - - -8-200 | 180...210 | 18,5/22 |
| - - -8-225 | 200...230 | 18,5/22/30 |
| - - -8-250 | 230...250 | 22/30/37 |

- - -8

3/

6...12

- - -12,5



| | | |
|---------------|-----------|------------|
| - - -12,5-25 | 25...30 | 3/4/5,5 |
| - - -12,5-50 | 50...60 | 5,5/7,5/11 |
| - - -12,5-75 | | 7,5/11/15 |
| - - -12,5-100 | 80...100 | 11/15/18,5 |
| - - -12,5-125 | 100...130 | 15/18,5 |
| - - -12,5-150 | 130...160 | 15/18,5/22 |
| - - -12,5-175 | 160...180 | 18,5/22 |
| - - -12,5-200 | 180...210 | 18,5/22/30 |
| - - -12,5-225 | 200...230 | 22/30/37 |
| - - -12,5-250 | 230...250 | 30/37 |

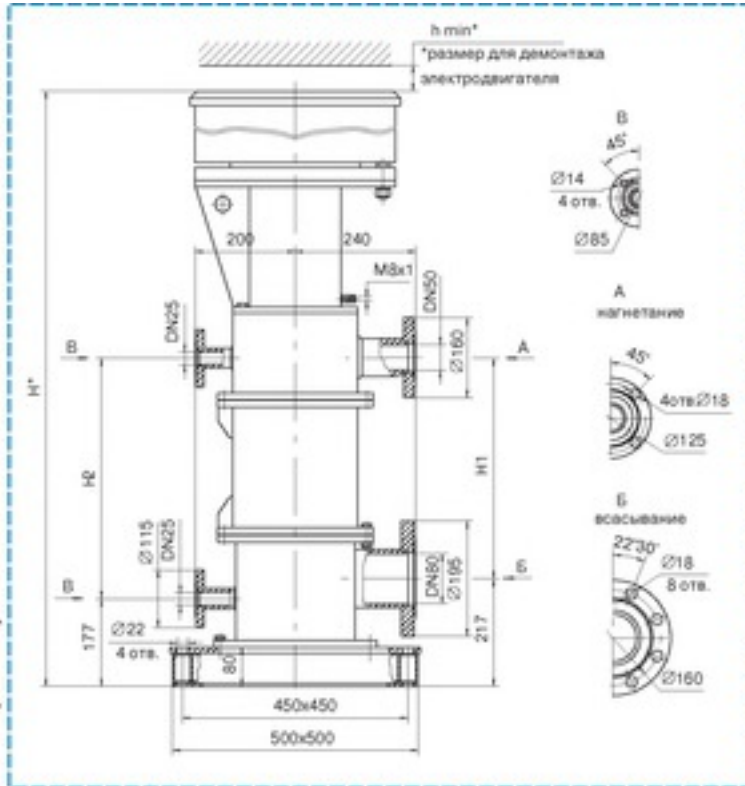
- - -12,5

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9...15

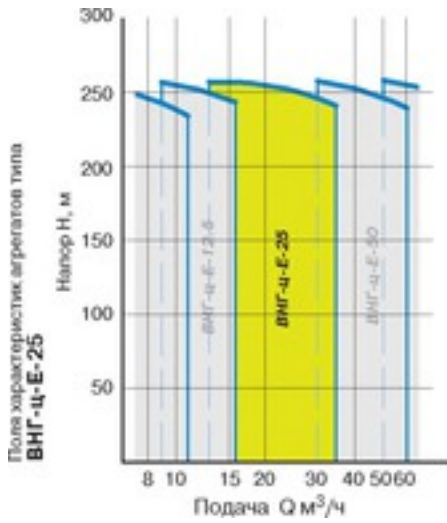


агрегатов электронасосных типа
ВНГ-ц-Е-12,5

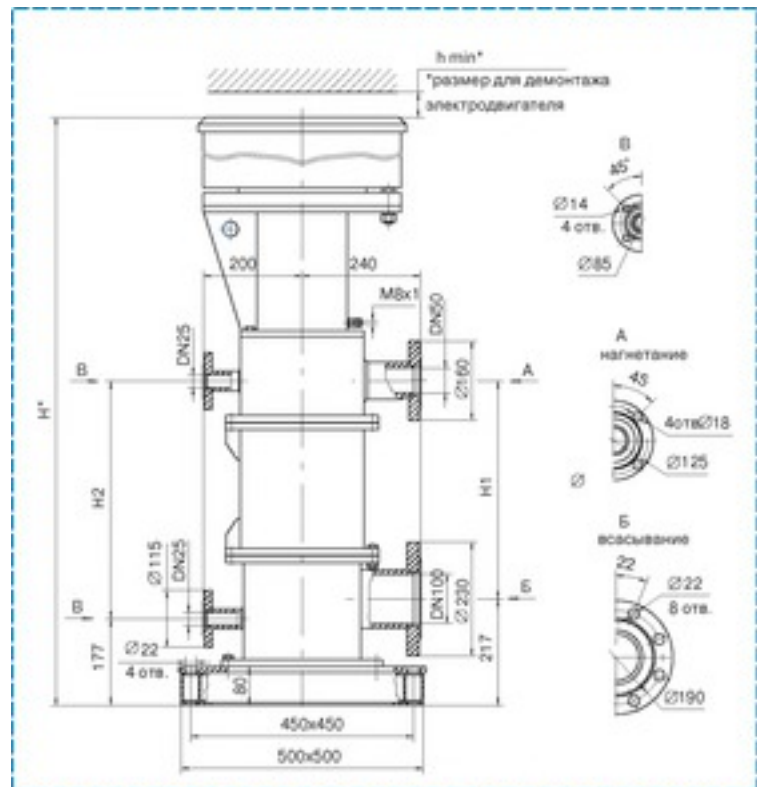


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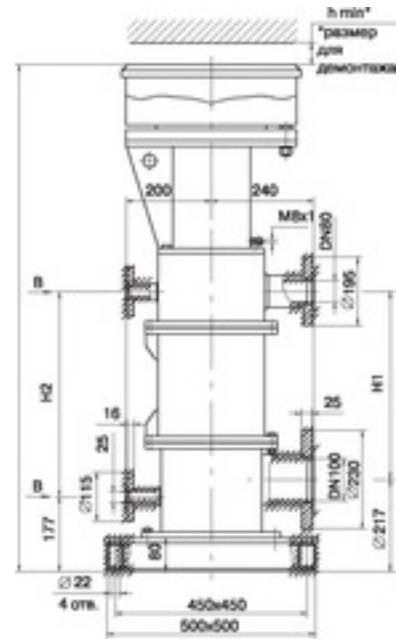


| Модель | Подача Q , м ³ /ч | Напор H , м | Число ступеней |
|-------------|--------------------------------|---------------|----------------|
| - - -25-25 | 13...35 | 25...30 | 4/5,5/7,5 |
| - - -25-50 | | 50...60 | 7,5/11/15 |
| - - -25-75 | | 8 | 11/15/18,5 |
| - - -25-100 | | 80...100 | 15/18,5/22 |
| - - -25-125 | | 100...130 | 18,5/22/30 |
| - - -25-150 | | 130...160 | 22/30 |
| - - -25-175 | | 150...190 | 30/37 |
| - - -25-200 | | 180...210 | 30/37/45 |
| - - -25-225 | | 200...230 | 30/37/45 |
| - - -25-250 | | 230...250 | 37/45 |

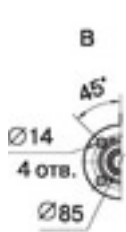
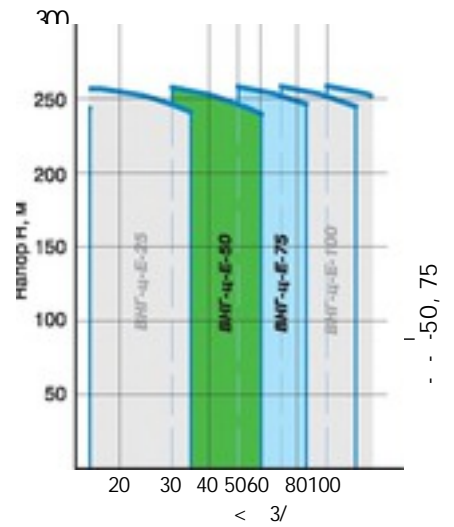


Габаритный чертеж агрегатов электронасосных типа ВНГ-ц-Е-25

| | | | |
|-------------|---------|-----------|------------|
| | | - - -50 | |
| | 3/ | | |
| - - -50-25 | | 15...25 | 5,5/7,5 |
| - - -50-40 | | 30...50 | 11/15/18,5 |
| - - -50-50 | | 45...75 | 15/18,5/22 |
| - - -50-75 | | 60...100 | 22/30 |
| - - -50-100 | | 80...120 | 22/30/37 |
| - - -50-125 | 30...60 | 100...140 | 30/37/45 |
| - - -50-150 | | 130...170 | 37/45 |
| - - -50-175 | | 150...190 | 37/45/55 |
| - - -50-200 | | 180...210 | 45/55 |
| - - -50-225 | | 210...230 | 45/55/57 |
| - - -50-250 | | 230...250 | 55/75 |



| | | | |
|-------------|---------|-----------|------------|
| | | - - -75 | |
| | 3/ | | |
| - - -75-40 | | 25...40 | 11/15/18,5 |
| - - -75-75 | | ┌ | 18,5/22/30 |
| - - -75-100 | | 80...120 | 30/37/45 |
| - - -75-125 | | 110...140 | 37/45/55 |
| - - -75-150 | 50...85 | 130...160 | 45/55 |
| - - -75-175 | | 150...180 | 45/55/75 |
| - - -75-200 | | 180...210 | 55/75 |
| - - -75-225 | | 210...230 | 55/75/90 |
| - - -75-250 | | 230...250 | 75/90 |



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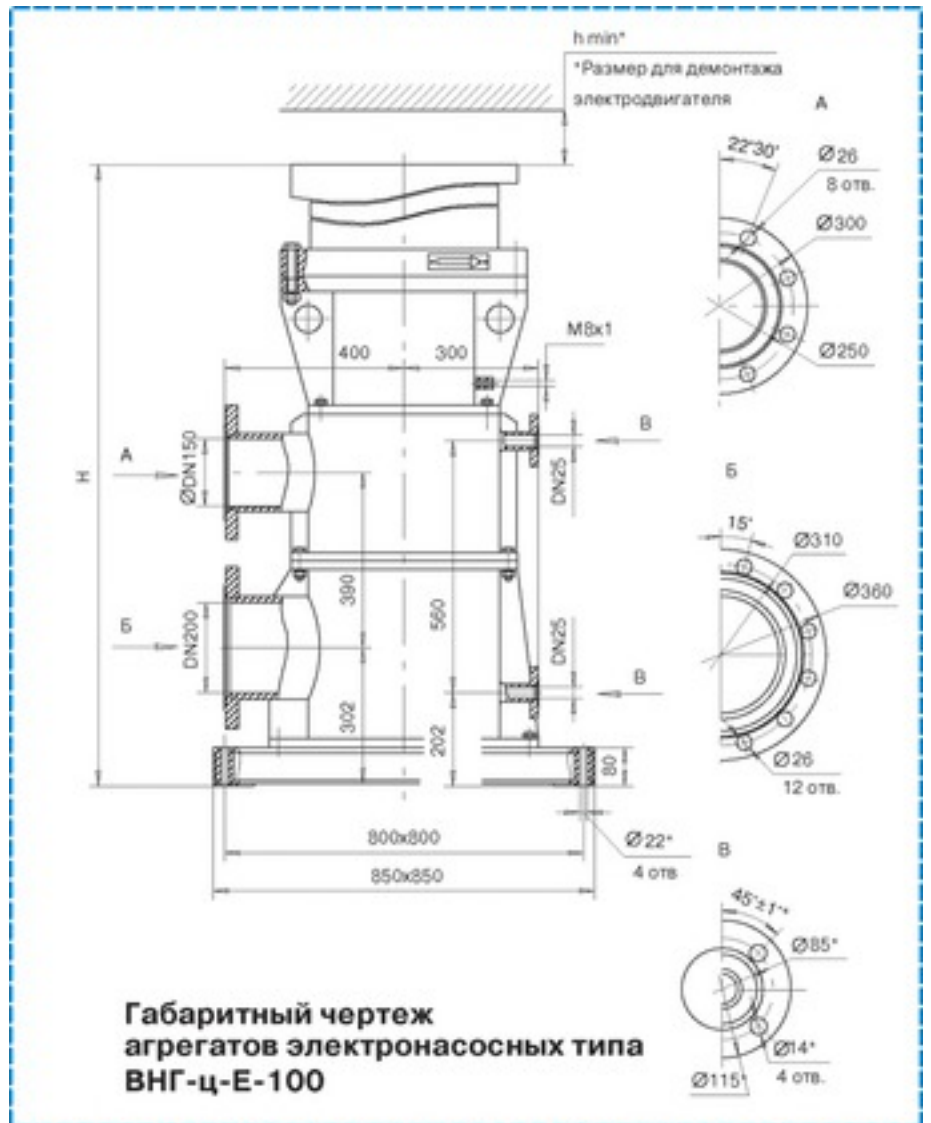
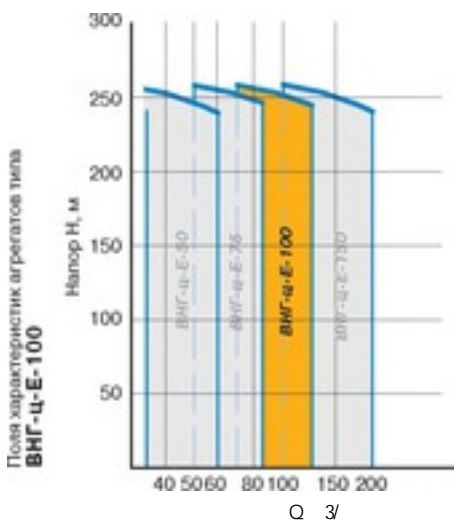
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- - -100



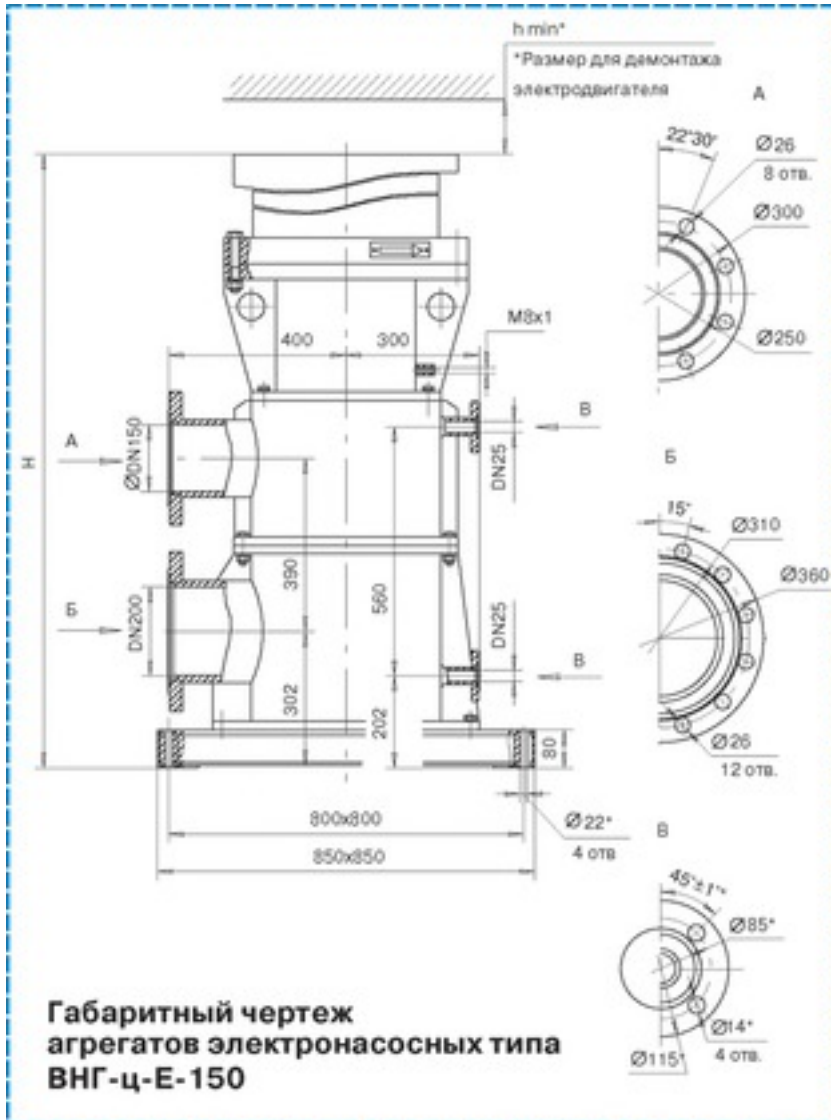
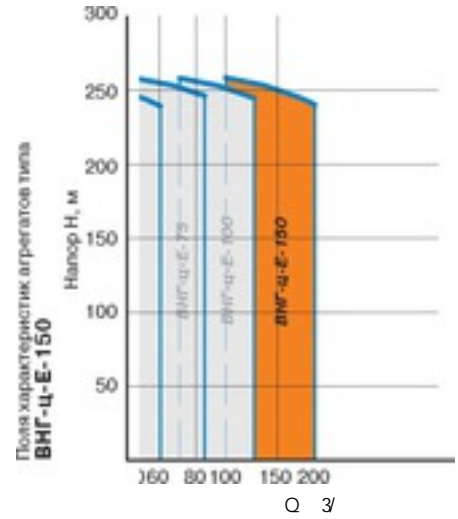
| | | | |
|--------------|--|-----------|-----------|
| - - -100-50 | | 40...55 | 22/30/37 |
| - - -100-75 | | 75...120 | 37/45/55 |
| - - -100-100 | | 75...105 | 55/75/90 |
| - - -100-125 | | 100...130 | 75/90/110 |



- - -150

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| | | | |
|--------------|-----------|----------|-----------|
| - - -150-50 | 100...165 | 35...60 | 30/37/45 |
| - - -150-75 | 100...175 | 50...90 | 45/55/75 |
| - - -150-100 | 100...185 | 75...110 | 75/90/110 |
| - - -150-125 | 100...195 | 95...130 | 75/90/110 |



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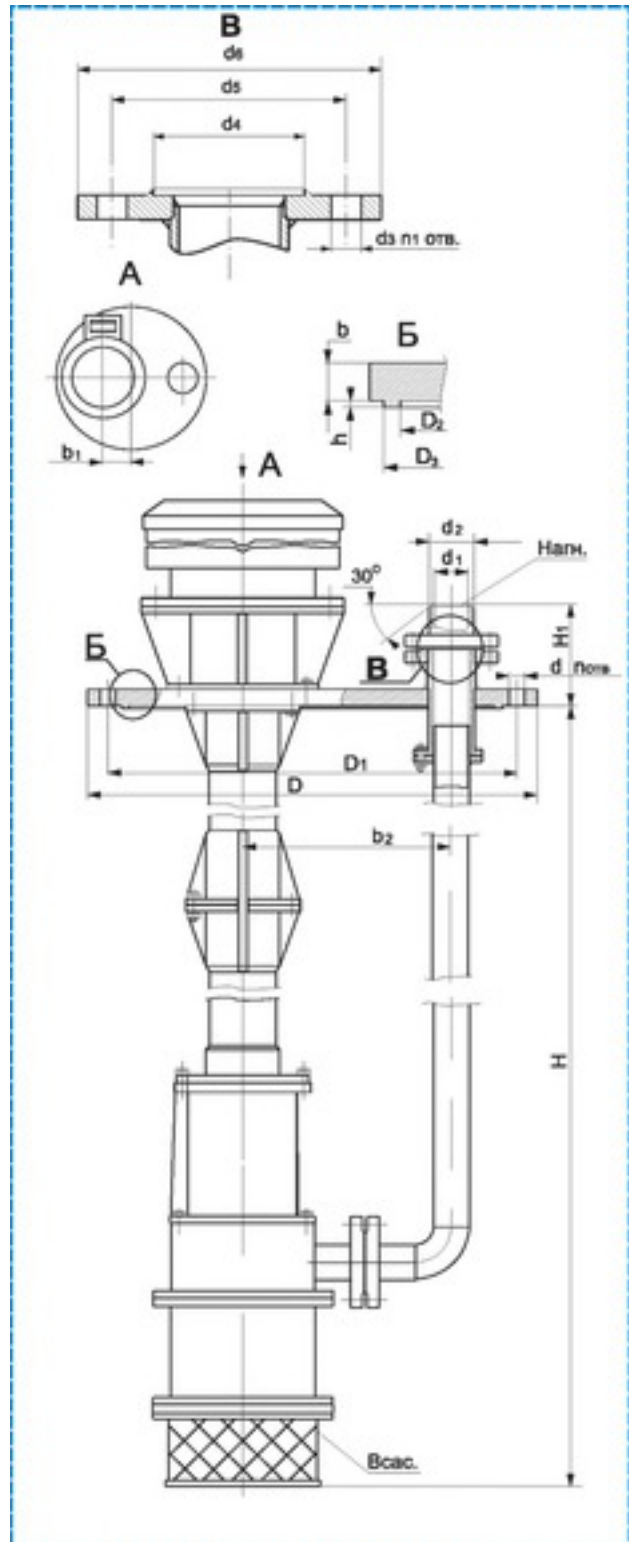
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12820-80, 28759.2-90, ASME
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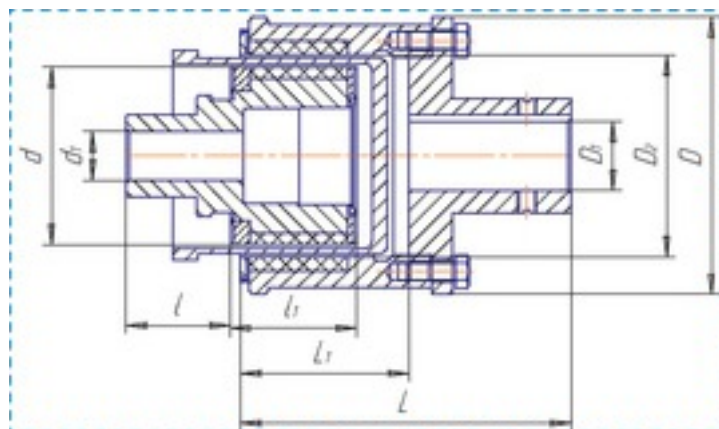
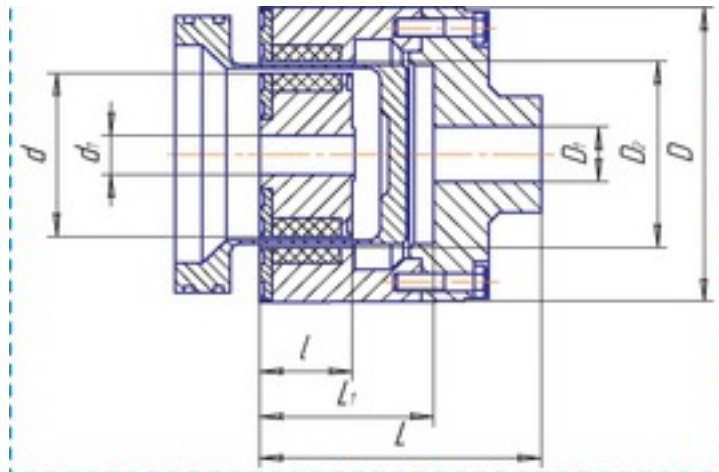
| | |
|------------|-----|
| 1-2 3/ | 400 |
| 4-12,5 3/ | 500 |
| 12,5-50 3/ | 600 |
| 50-80 3/ | 800 |
| 80 3/ | 900 |

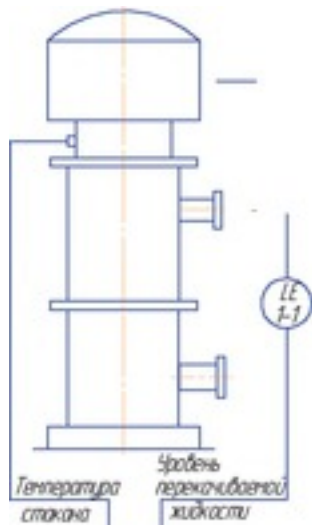
| | |
|--------------------|----|
| - - -1 | 5 |
| - - -2 | 8 |
| - - -4 | 12 |
| - - -8 | 20 |
| - - -12,5 | 25 |
| - - -25 | 35 |
| - - -50 | 40 |
| - - -60 | 50 |
| - - -100, - - -150 | 70 |



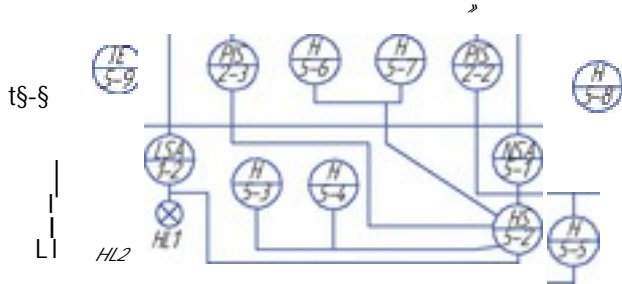


| | | d | d ₁ | h ₁ | l | D | D ₁ | L ₁ | L | D ₂ |
|-----------|-----|-----|----------------|----------------|----|-----|----------------|----------------|-----|----------------|
| 5,5 | - | 110 | 30 | 57 | 41 | 160 | 38 | 135 | 210 | 118 |
| 7,5 | - | 110 | 30 | 77 | 41 | 160 | 38 | 155 | 210 | |
| 11 | - | 110 | 30 | 77 | 43 | 168 | 42 | 102 | 201 | 118 |
| 18,5 | 82 | 110 | 30 | 97 | 41 | 168 | 42 | 122 | 221 | 118 |
| 22 | 90 | 108 | 30 | 117 | 41 | 168 | 48 | 120 | 241 | 118 |
| 30 | 138 | 110 | 30 | 137 | 41 | 168 | 48 | 162 | 261 | |
| 45 | 135 | 110 | 30 | 157 | 41 | 168 | 55 | 180 | 280 | 118 |
| 45 | 230 | 137 | 40 | 113 | 7 | 220 | 55 | 100 | 168 | 142 |
| 55 | 230 | 137 | 40 | 153 | 7 | 220 | 60 | 140 | 208 | 142 |
| - 22 | 66 | 136 | 45 | 142 | - | 220 | 55 | 193 | 333 | |
| - () 22 | 110 | 136 | 45 | 85 | - | 220 | 55 | 133 | 273 | |
| - 45 | 260 | - | - | - | - | 285 | 55 | 151 | 255 | |
| - () 55 | 290 | 200 | 45 | 73 | - | 285 | 55 | 151 | 255 | 142,5 |
| - 90 | 240 | 200 | 45 | 113 | - | 285 | 65 | 151 | 291 | |
| - () 90 | 430 | 200 | 45 | 133 | - | 285 | 65 | 168 | 291 | |
| 017.072 | | | | | | 285 | 65 | 151 | 291 | |
| 090.200 | 280 | 200 | 45 | 93 | - | 285 | 55 | 151 | 255 | |
| 055.200 | - | 199 | 45 | 81 | - | 285 | 55 | 151 | 255 | |
| - 045.200 | 180 | 199 | 45 | 81 | - | 285 | 55 | 151 | 255 | |

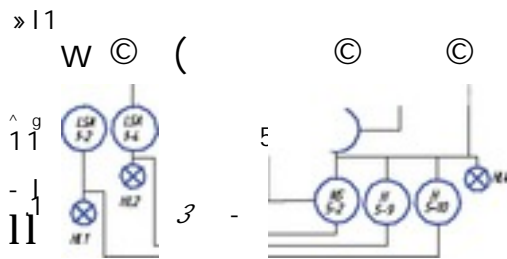




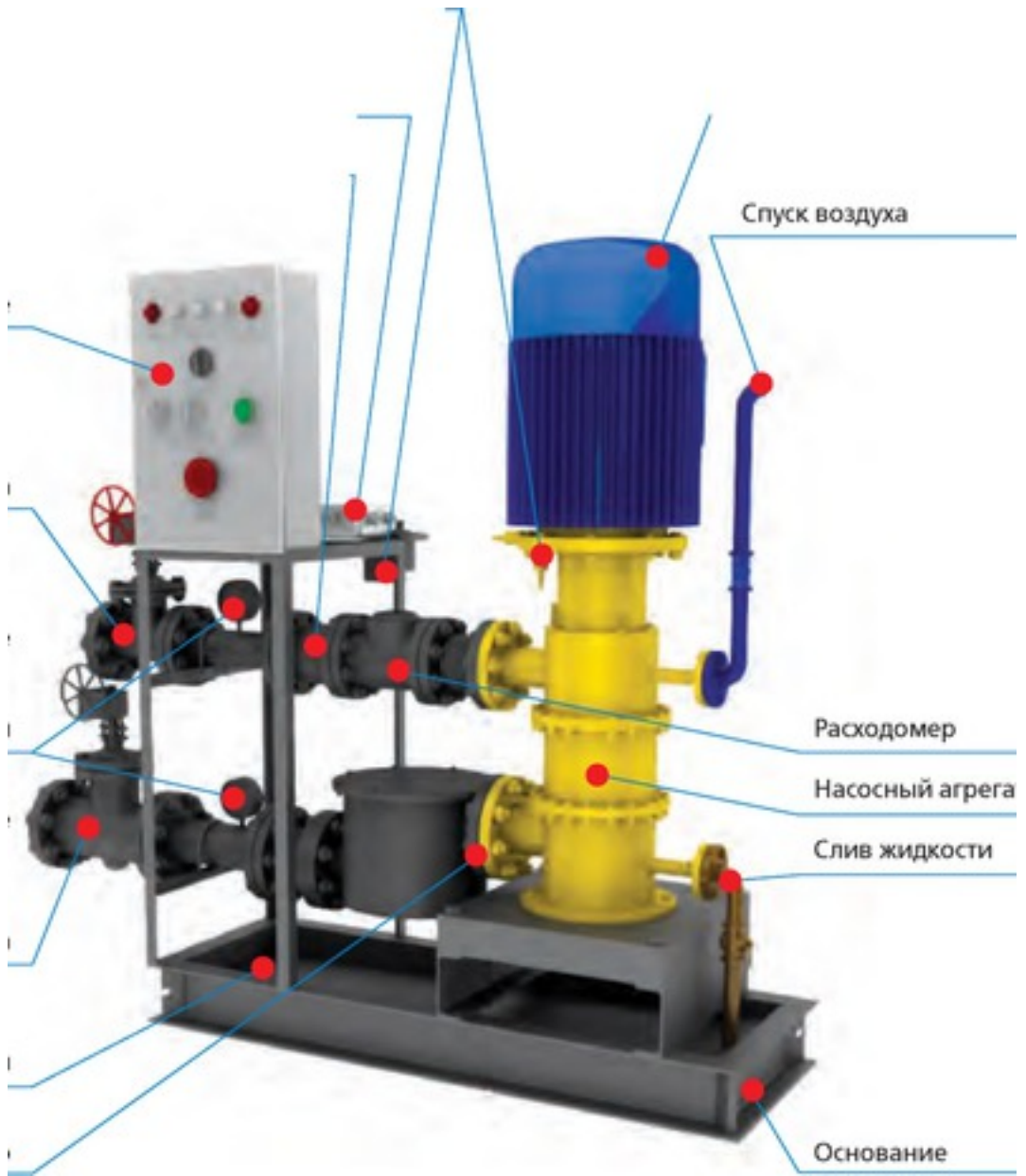
| | | |
|---------------|---|---|
| 1-1, -2 | » | 1 |
| 2-1 | | 2 |
| 2-3, 2-3 | | |
| 5-1 | | 1 |
| 5-2 | » | 1 |
| 5-3, 5-4 | » | 1 |
| 5-5 | » | 1 |
| 5-6, 5-7 | » | 1 |
| 5-8 | » | 1 |
| 5-9 | » | 1 |
| HL1, HL2, HL3 | | 3 |



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XX
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|----------|----|---|
| 4-1 4-2 | | 1 |
| 5-1 | | 1 |
| 5-2 | | 1 |
| 5-3, 5-4 | 2- | 2 |
| 5-5 | | 1 |
| 5-6, 5-7 | 2- | 2 |
| 5-8, 5-9 | | 3 |
| 5-0 | | |
| 1-1 1-2 | | 2 |
| 1-3 -4 | | |



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| / | γ | ° | 3max | N | | | |
|----|----------------------|---------------|----------|-----------|--------|-----------|-----------------|
| | - - -1-70- - 2 | 1,5 (0,8-1,8) | 40 | 35-40 | 705 | 1,1 | |
| 2 | - - -1-70- - 2 | 0,8 | 1,8 | -10...+30 | 853 | 1,1 | |
| 3 | - - -1-110- - 2 | 1,0 (0,9-1,2) | 90 | 90 | 815 | 2,2 | |
| 4 | - - -1-150- - 2 | | 150 | | | 2,2 | |
| 5 | - - -2-120- - 2 | 1-3 | 100 | 20 | « » | 1000 | 3 |
| 6 | - - -2-150- - 2 | | | | | 766 | 4 |
| 7 | - - -2-180- - 2 | 1-3 | 150 | 20 | | 998 | 4 |
| 8 | - - -4-100- - 2 | 4 | 100 | 30-65 | | 780 | 4 |
| 9 | - - -4-100- - 2 | 4 | 100 | 35-40 | | 1020 | 4 |
| 10 | - - -4-140- - 2 | 6,0 (3,0-7,2) | 90 | 20 | | 846 | 5,5 |
| 11 | - - -4-160- - 2 | 4-7 | 110-120 | 85 | « » | 968 | 5,5 |
| 12 | - - -4-40- - 2 | 2,6 (1,3-4) | 40 | 130 | | 825-904 | 2,2 |
| 13 | - - -4-50- - 2 | 5 (2,5-6,0) | 40 | 35-40 | | 705 | 1,5 |
| 14 | - - -4-50- - 2 | | | | | 1038 | 3 |
| 15 | - - -4-60- - 2 | | | | | 994 | 3 |
| 16 | - - -4-60- - 2 | 3,5 (1...5) | 60 | | | 1200-1500 | 4 |
| 17 | - - -4-60- - 2 | | | | « » | 968 | 4 |
| 18 | - - -4-80- - 2 | 1...5 | 70 | | | 1000 | 4 |
| 19 | - - -4-80- - 2 | .1.5-5 | 80 | | | 553 | 3 |
| 20 | - - -4-90- - 2 | | | | | 771 | 4 |
| 21 | - - -8-30- - 2 | 3-9 | 25-30 | 20 | | 888 | 7,5 |
| 22 | - - -8-50- - 2 | 7-9 | 50-55 | | | 755 | 4 |
| 23 | - - -8-50- - 2 | 7-9 | 50-55 | | | 755 | 5,5 |
| 24 | - - -8-100- - 2 | .5-12 | 100 | 30 | | 780 | 15 |
| 25 | - - -8-120- - 2 | .5-12 | 120 | 20 | | 870 | 22 |
| 26 | - - -10-100- - 2 | | | | | | 11 |
| 27 | - - -10-100- - 2 | .6-12 | 100 | | | 1100 | 7,5 |
| 28 | - - -12.5-50- - 2 | 12,5 (10-16) | 50-55 | | | 856 | 11 |
| 29 | - - -12.5-100- - 2 | .8-15 | 100 | 25-30 | | 765 | 15 |
| 30 | - - -12.5-100- - 2 | 12,5 | 100 | | | 995 | 15 |
| 31 | - - -12.5-150- - 2 | 5-25 | 1120-140 | 20 | | 770/880 | 30 |
| 32 | - - -12.5-200- - 2 | 12,5(10-16) | 200 | 20 | | 650-828 | 30 |
| 33 | - - -16-30- - 2 | 16 | 30 | 40-50 | | 1000 | 4 |
| 34 | - - -25-40- - 2 | 25 | 40 | | | 910-945 | 11 |
| 35 | - - -25-50- - 2 | 18-35,4 | 50-55 | 34 | | 1076 | 15 |
| 36 | - - -25-50- - 2 | 16-20 | 62 | | | 958 | 15 |
| 37 | - - -25-50- - 2 | 20-25 | 50 | | | 634 | 11 |
| 38 | - - -25-75- - 2 | 25(18-30) | 80 | 10...90 | | 855 | 18,5 |
| 39 | - - -25-100- - 2 | 13-35 | 72 | 90 | | 1096 | 18,5 (15), (22) |
| 40 | - - -25-100- - 2 | 25(20-70) | 90 | 130 | | 1025 | 22 |
| 41 | - - -25-125- - 2 | 25 | 125 | 20 | | 852 | 30 |
| 42 | - - -25-150- - 2 | 8...20 | 150 | | | 875 | 30 |
| 43 | - - -25-150- - 2 | 25(15-35) | | | | 645-836 | 22 |
| 44 | - - -25-200- - 2 | 25(15-35) | 200 | | | 992 | 37 |
| 45 | - - -25-200- - 2 | 25 | 200 | | -- »-- | 1017 | 45 |
| 46 | - - -25-250- - 2 | 40 | 200 | -54.+30 | « » | 520 | 45 |
| 47 | - - -50-50- - 2 | 27-54 | 70 | 40 | | 1095 | 18,5 |
| 48 | - - -50-75- - 2 | 50 | 75 | | | 933-985 | 30 |
| 49 | - - -50-75- - 2 | 45 | 60 | | | 1746 | 45 |
| 50 | - - -50-100- - 2 | 50 | 100 | | | 1834 | 45 |
| 51 | - - -50-100- - 2 | 50 | 100 | | | 850-1001 | 22 (37) |
| 52 | - - -50-100- - 2 | (30-60) | 125 | 30-65 | | 520 | 30 |
| 53 | - - -50-150- - 2 | 55 | 140 | 25-45 | | 780 | 45 |
| 54 | - - -50-200- - 2 | 50 | 200 | 45 | | 775 | 55 |
| 55 | - - -60-80- - 2 | 60 | 80 | | | | 37 |
| 56 | - - -60-150- - 2 | 36-72 | 151 | 98 | | 573,5 | 55 |
| 57 | - - -75-75- - 2 | 75 | 75 | | -- »-- | 1048 | 37 |
| 58 | - - -75-100- - 2 | 75 | 100 | 35-40 | | 800 | 75 |
| 59 | - - -100-100- - 2 | 100 | 100 | 60 | | 590-686 | 45 |
| 60 | - - -125-125- - 2 | 125 | 125 | +50 | | 1000 | 90 |
| 61 | - - -150-50- - 2 | 110-140 | 57 | | | 745 | 55 |
| 62 | - - -150-100- - 2 | 150 | 100 | | | 700-972 | 55 |
| 63 | - - -1-40- -3,2- - 2 | | | | -- »-- | | 3 |
| 64 | - - -2-30- -1,6- - 4 | 2 | 25 | 18-20 | | 1050 | 1,5 |
| 65 | - - -4-20- -1,3- - 4 | 4 | 20 | | | | 1,5 |

| / | | 3 | | | | / 3max | nw |
|-----|----------------------------|--------------|---------|---------|-------|----------|------------------|
| 66 | - - -4-30- -3,2- - 2 | 4 | 30 | 18-20 | | 1054 | 3 |
| 67 | - - -4-50- -3,2- - 2 | 4 | 50 | | | | 3 |
| 68 | - - -4-70- -3,2- - 2 | 25(15-35) | 70-80 | 5-55 | | 672,1 | 3 |
| 69 | - - -5-450- -3- - 2 | .3-5 | 450 | | | 850 | 7,5 2 |
| 70 | - - -8-20- -3,2- - 2 | .6-12 | 20 | | | 1000 | 3 |
| 71 | - - -8-25- -2- - 2 | 8,5 | 30 | 93 | | 1020 | 4 |
| 72 | - - -8-50- -3,15- - 2 | 7-8 | 50 | 80 | | 833 | 4 |
| 73 | - - -10-100- -3,2- - 2 | 10 | 100 | 0-47 | | 727 | 11 |
| 74 | - - -12,5-12,5- -2,38- - 2 | 15 | 11,6 | 5-55 | | 806-1020 | 3 |
| 75 | - - -12,5-25- -1,4- - 2 | 12,5 | 25 | 130 | | 1100 | 5,5 |
| 76 | - - -12,5-25- -1,8- - 2 | 12,5 | 25 | 130 | | 1100 | 5,5 |
| 77 | - - -12,5-25- -2,1- - 2 | 12,5 | 25 | 12 | | 980 | 5,5 |
| 78 | - - -12,5-25- -2,6- - 2 | 12,5 | 25 | | | 1000 | 4 |
| 79 | - - -12,5-25- -2,98- - 2 | | | | | 806-1020 | 4 |
| 80 | - - -12,5-25- -3,2- - 2 | | | | | 1000 | 11 |
| 81 | - - -12,5-50- -2,9- - 2 | .6-13 | 50 | 100 | | 780 | 5,5 |
| 82 | - - -12,5-50- -3,2- - 2 | 12,5 | 50 | | | | 11 |
| 83 | - - -12,5-50- -3,9- - 2 | | | | | 655 | 15 |
| 84 | - - -12,5-75- -2,85- - 2 | 20 | 70 | 130 | | 1021 | 18,5 |
| 85 | - - -12,5-100- -1,9- - 2 | 12,5(10-16) | 100 | 25-30 | | 1040 | 22 |
| 86 | - - -12,5-100- -3- - 2 | | | | « » | | 18,5 (15), (7,5) |
| 87 | - - -12,5-100- -3,2- - 2 | 12,5(10-30) | 100 | 30 | | 840 | 18,5 |
| 88 | - - -12,5-100- -3,2- - 4 | 12,5 | 100 | | | | 18,5 |
| 89 | - - -12,5-100- -3,7- - 2 | 12,5 | 100 | 150 | | 850 | 18,5 |
| 90 | - - -25-25- -3,28- - 2 | 25(15-35) | 25 | | | 806-1020 | 11 |
| 91 | - - -25-25- -3,38- - 2 | 25 | 25 | | | 1000 | 11 |
| 92 | - - -25-50- -1,7- - 2 | 25(15-35) | 50 | | | 813-1130 | 15 |
| 93 | - - -25-50- -2- - 2 | 25 | 50 | | | 785-1514 | 15 |
| 94 | - - -25-50- -3,2- - 2 | 25 | 50 | | | 1000 | 11(15) |
| 95 | - - -25-50- -3,2- - 2 | 25 | 50 | | (« ») | 1000 | 15 |
| 96 | - - -25-50- -3,7- - 2 | 25 | 50 | | | 1010 | 15 |
| 97 | - - -25-50- -3,7- - 2 | 25 | 50 | | | 1000 | 11 |
| 98 | - - -25-50- -3,8- - 2 | 25 | 50 | 130 | | 1000 | 11 |
| 99 | - - -25-60- -3,2- - 2 | 25 | 60 | 5...20 | | 1000 | 15 |
| 100 | - - -25-75- -2,3- - 2 | 20 | 80 | 30-65 | | 1000 | 15 |
| 101 | - - -25-100- -1,9- - 2 | 25 | 100 | | | 1000 | 22 |
| 102 | - - -25-100- -3- - 2 | 25 (15-35) | 100 | | | 1116 | 18,5 |
| 103 | - - -25-100- -3,1- - 2 | | | | | 1050 | 22 |
| 104 | - - -25-100- -3,2- - 2 | 25 (15-35) | 100 | 40 | | 720-800 | 18,5 |
| 105 | - - -25-100- -3,7- - 2 | 25 | 100 | | | 650 | 22 |
| 106 | - - -25-100- -3,7- - 2 | 25 | 100 | | | 1000 | 22 |
| 107 | - - -25-100- -3,4- - 2 | | | | | 820 | 22 |
| 108 | - - -25-100- -4- - 2 | | | | | 1100 | 22 |
| 109 | - - -25-125- -3- - 2 | 25(15-35) | 120 | | | 999,7 | 30 |
| 110 | - - -25-125- -3,2- - 2 | 25 | 125 | 0-20 | | 576-750 | 22 |
| 111 | - - -25-125- -3,2- - 2 | 25 | 100-125 | 0-20 | | 576 | 18,5 |
| 112 | - - -25-125- -3,7- - 2 | 25 | 100 | | | 905 | 30 |
| 113 | - - -25-125- -4,2- - 1 | 25 | 100 | | | 750 | 18,5 |
| 114 | - - -25-150- -3- - 2 | 25 | 150 | 30 | | 868 | 30 |
| 115 | - - -25-150- -3- - 2 | | | | | 1000 | 30 |
| 116 | - - -25-175- -2,7- - 1 | 25 | 175 | 130 | | 1000 | 37 |
| 117 | - - -25-175- -3,5- - 2 | 25 | 175 | | | 1000 | 37 |
| 118 | - - -25-250- -4- - 2 | 25 | 250 | 130 | | 1000 | 55 |
| 119 | - - -40-50- -3- - 2 | 40 | 50 | -30.+40 | | 1000 | 18,5 |
| 120 | - - -50-25- -5,1- - 2 | 50 | 25 | 10 | | 1000 | 11 |
| 121 | - - -50-50- -3,2- - 2 | 50 | 50 | 130 | | 1100 | 18,5 |
| 122 | - - -50-50- -3,3- - 1 | 50 | 50 | | | | 18,5 |
| 123 | - - -50-50- -3,7- - 2 | 50 | 50 | | | | 18,5 |
| 124 | - - -50-100- -3,2- - 2 | 50 | 100 | | | 750 | 37 |
| 125 | - - -50-100- -3,7- - 2 | 50 | 100 | | | 786 | 37 |
| 126 | - - -50-100- -3,9- - 2 | 50 | 100 | 30 | | 740-995 | 37 |
| 127 | - - -50-125- -3- - 1 | 50 | 120 | 40-50 | | 650-750 | 37 |
| 128 | - - -50-150- -3,2- - 2 | 35 (12,5-35) | 150 | 0-150 | | 600-1000 | 37 |
| 129 | - - -50-150- -3,3- - 2 | 30 (15-40) | 150 | 60 | | 500 | 37 |
| 130 | - - -75-50- -3,2- - 2 | 75 | 50 | | | 1000 | 22 |
| 131 | - - -150-50- -3,2- - 2 | | | | | 1000 | 55 |
| 132 | - - -150-50- -3,7- - 2 | 120-140 | 50 | | | 1000 | 55 |
| 133 | - - -150-100- -4,05- - 2 | 150 | 100 | 10 | | 1000 | 110 |
| 134 | - - -150-100- -4,05- - 2 | 150 | 100 | 10 | | 1000 | 110 |
| 135 | - - -150-100- -4,45- - 2 | 150 | 100 | | | 1000 | 110 |



«

»

$$1 \text{ } \mathcal{V} = 0,1667 \text{ } \mathcal{V} = 1000 / = 16,67 / = 0,28 /$$

():

| (/ 2) | bar | | | | | | | / 2 |
|----------------------|------------------------|-----------------------|-----------------------|---------------------|----------------------|-----------------------|-----------------------|------|
| 1 | 1 10 ⁻⁶ | 1 10 ⁻⁵ | 9.87 10 ⁻⁶ | 0.0075 | 0.1 | 1.02 10 ⁻⁴ | 1.02 10 ⁻⁵ | |
| 1 10 ⁶ | 1 | 10 | 9.87 | 7.5 10 ³ | 1 10 ⁵ | 1 10 ² | 10,20 | |
| 1 10 ⁵ | 0,1 | 1 | 0.987 | 750 | 1.02 10 ⁴ | 10,20 | 1,02 | |
| 1.01 10 ⁵ | 1.01 10 ⁻¹ | 1.013 | 1 | 759.9 | 10332 | 10.332 | 1,03 | |
| 133.3 | 133.3 10 ⁻⁶ | 1.33 10 ⁻³ | 1.32 10 ⁻³ | 1 | 13,30 | 0.013 | 1.36 10 ⁻³ | |
| 10 | 1 10 ⁻⁵ | 0.000097 | 9.87 10 ⁻⁵ | 0.075 | 1 | 0.001 | 1.02 10 ⁻⁴ | |
| 1 10 ⁴ | 0,01 | 0.097 | 9.87 10 ⁻² | 75 | 1000 | 1 | 0.102 | |
| / 2 | 9.8 10 ⁴ | 9.8 10 ⁻² | 0.98 | 0.97 | 735 | 10000 | 10 | 1 |
| (psi) | 6894.76 | 6.9 10 ⁻³ | 0.069 | 0.068 | 51.7 | 689.7 | 0.690 | 0.07 |

$$() = / ()$$

$$1 / 3 = 1 10^{-3} / 3$$

$$T^{\circ}\text{F} = t^{\circ}\text{T} \times 1,8 + 32$$

$$t^{\circ} = 5/9 (T^{\circ}\text{F} - 32)$$

$$1 () = 1 / 2 = 0,010193 / 2 = 0,1 (1 = 10^{-5} = 1,02 10^{-6})$$

$$1 () 1 = 0,01 = 1 10^{-3} = 1 10^{-3} / 2 = 1.02 10^{-4} / 2$$

():

$$v = /$$

$$1 (\text{cSt}) () 1 = 0,01 = 1 \mathcal{V} = 10^{-6} \mathcal{V})$$

$$1 = 0,102$$

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