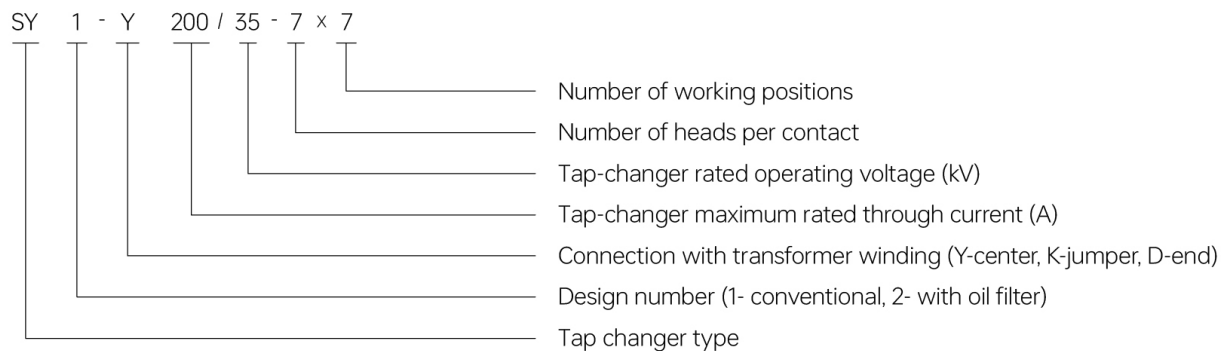


# Product selection manual

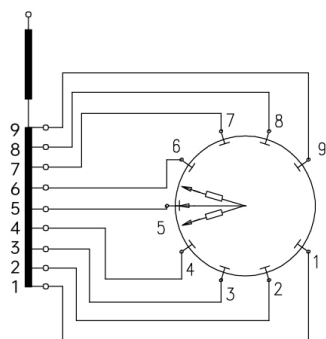


# SY on-load tap-changer

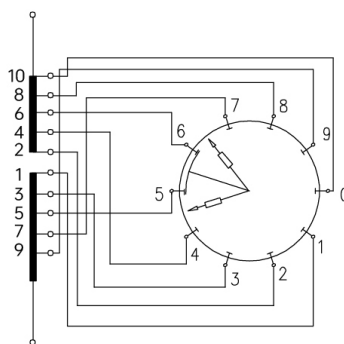
## 1. SY model description



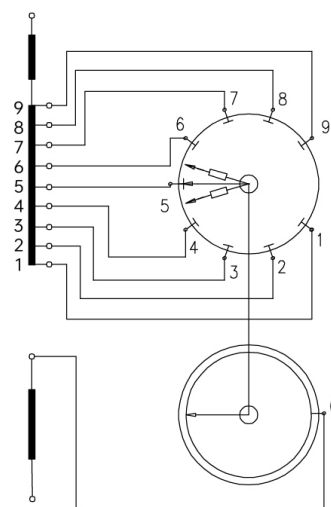
## 2. SY basic wiring diagram



Y Connects to the center point to adjust pressure



Central straddle voltage regulation



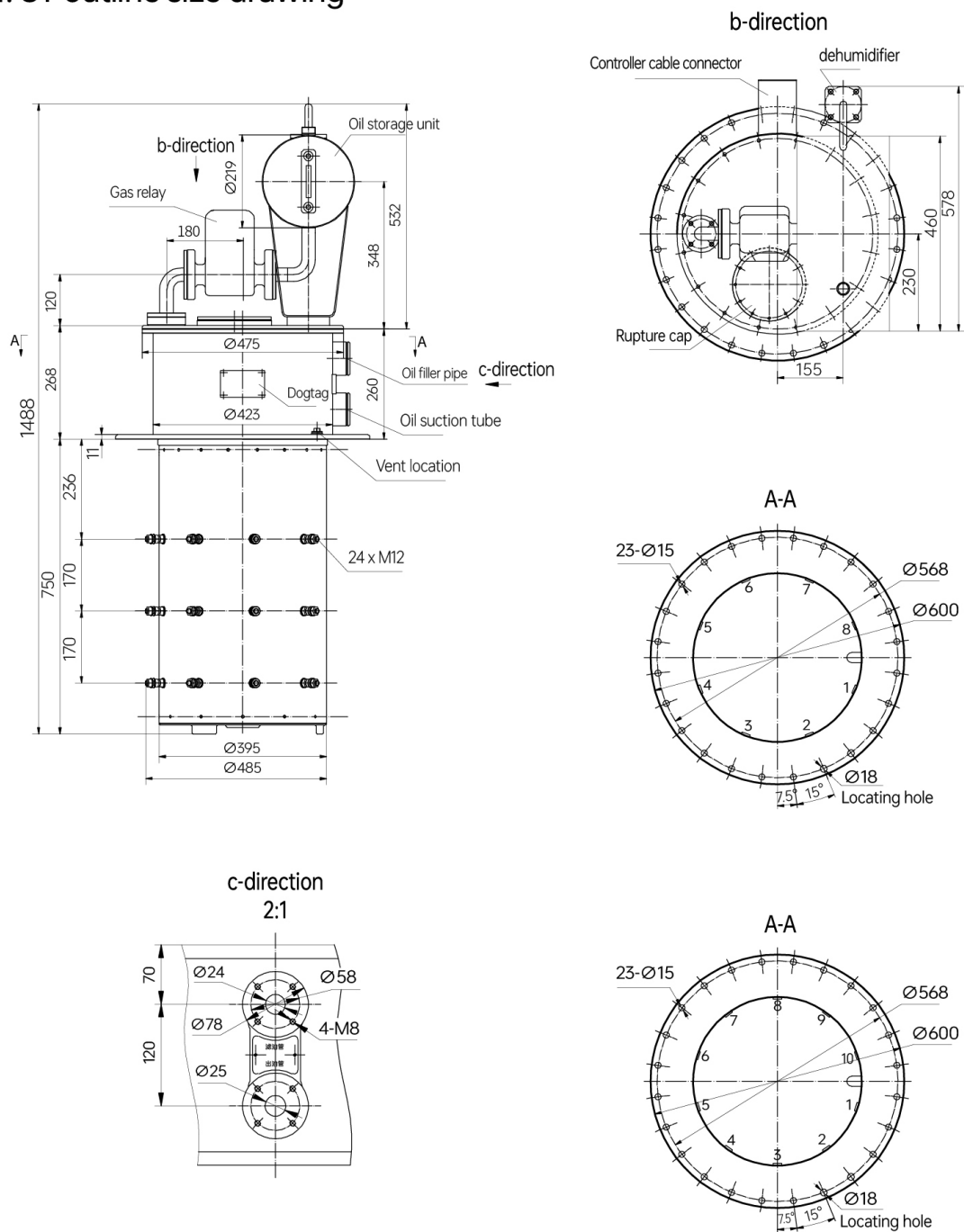
End pressure regulation

### 3. SY technical parameters

| item | Classification feature               |                                     | Y200                                 | K200         | D200 | Y400          | K400         | D400 |
|------|--------------------------------------|-------------------------------------|--------------------------------------|--------------|------|---------------|--------------|------|
| 1    | Maximum rated passing current (A)    |                                     | 200                                  |              |      | 400           |              |      |
| 2    | Number of phases and connection mode |                                     | Central point                        | Bridge joint | end  | Central point | Bridge joint | end  |
| 3    | Rated frequency (Hz)                 |                                     | 50 or 60                             |              |      |               |              |      |
| 4    | Maximum grading voltage (V)          |                                     | 600                                  |              |      |               |              |      |
| 5    | Rated capacity (kYA)                 | Number of contacts per contact :8   | 120                                  |              |      | 240           |              |      |
|      |                                      | Number of contacts per contact :10  | 100                                  |              |      | 200           |              |      |
| 6    | Withstand short circuit Ability (kA) | Thermal stability (3s RMS)          | 4                                    |              |      |               |              |      |
|      |                                      | Dynamic stability                   | 10                                   |              |      |               |              |      |
| 7    | Number of working positions          |                                     | Max. 10                              |              |      |               |              |      |
| 8    | Tap off Off insulation level (kY)    | Rated voltage                       | 35                                   |              |      | 66            |              |      |
|      |                                      | Maximum operating voltage           | 40.5                                 |              |      | 72.5          |              |      |
|      |                                      | Power frequency test voltage (1min) | 85                                   |              |      | 140           |              |      |
|      |                                      | Impulse test voltage (1.2/50)       | 200                                  |              |      | 350           |              |      |
| 9    | Mechanical life                      |                                     | No less than 200,000 times           |              |      |               |              |      |
| 10   | Electrical life                      |                                     | No less than 50,000 times            |              |      |               |              |      |
| 11   | Toggle Switch Oil chamber            | Working pressure                    | 3×10 <sup>4</sup> Pa                 |              |      |               |              |      |
|      |                                      | Sealing performance                 | 6×10 <sup>4</sup> Pa 24h no leakage  |              |      |               |              |      |
|      |                                      | Overpressure protection             | Rupture cap (4~5)×10 <sup>4</sup> Pa |              |      |               |              |      |
|      |                                      | Protective relay                    | QJ4-25 Set oil speed 1.0m/s±10%      |              |      |               |              |      |
| 12   | Weight (Kg)                          |                                     | about 150                            |              |      |               |              |      |
| 13   | Accessory controller                 |                                     | YK-3                                 |              |      |               |              |      |

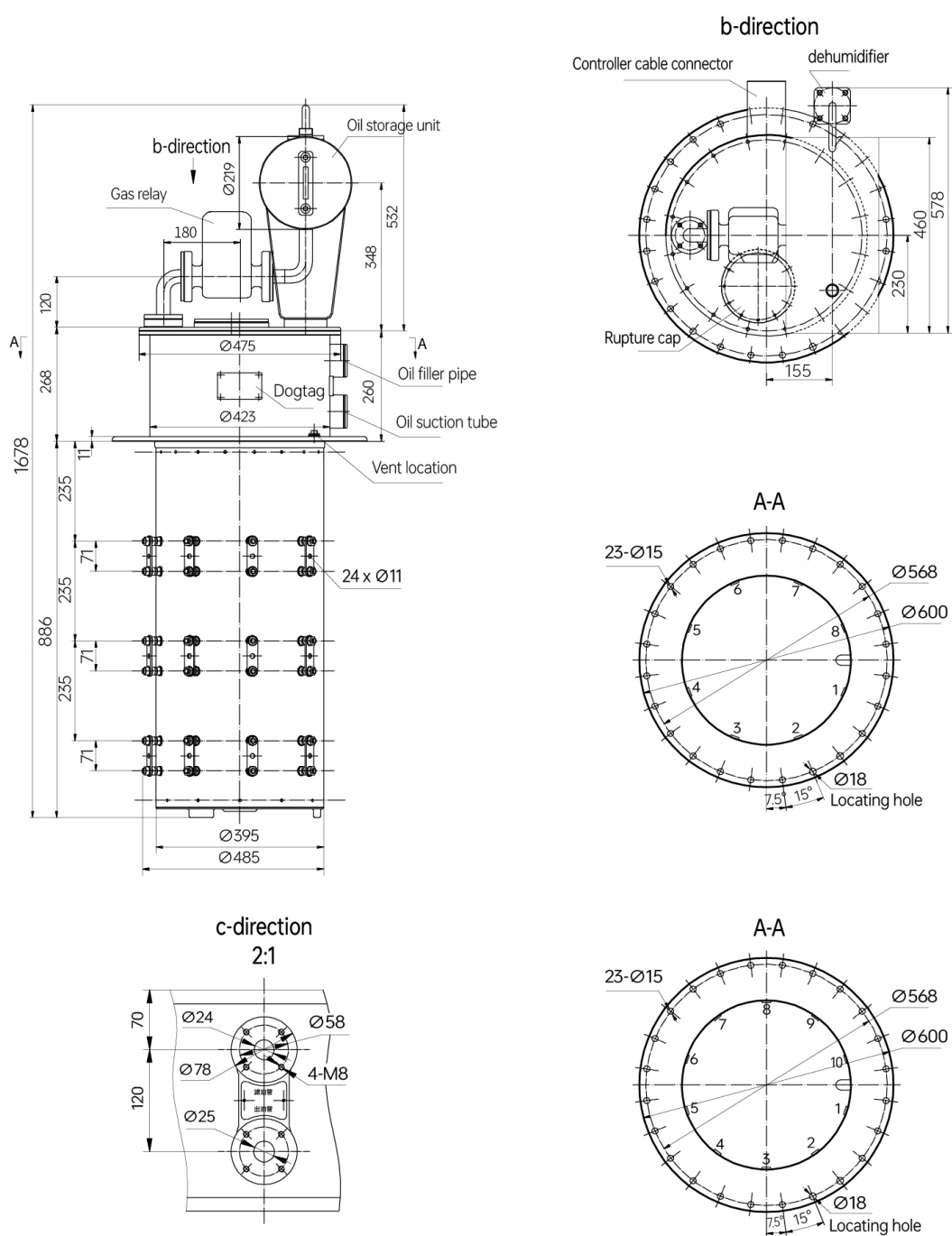
Note: The stage capacity is equal to the product of the stage voltage and the load current, and the rated stage capacity is the maximum continuously allowed stage capacity.

#### 4. SY outline size drawing



SY1-Y200/35-7×7  
 SY1-K200/35-8×7  
 SY1-Y200/35-9×9  
 SY1-K200/35-10×9

Figure 1 SY1-K (Y) 200/35



SY1-Y400/35-7×7  
 SY1-K400/35-8×7  
 SY1-Y400/35-9×9  
 SY1-K400/35-10×9

Figure 2 SY1-K (Y) 400/35

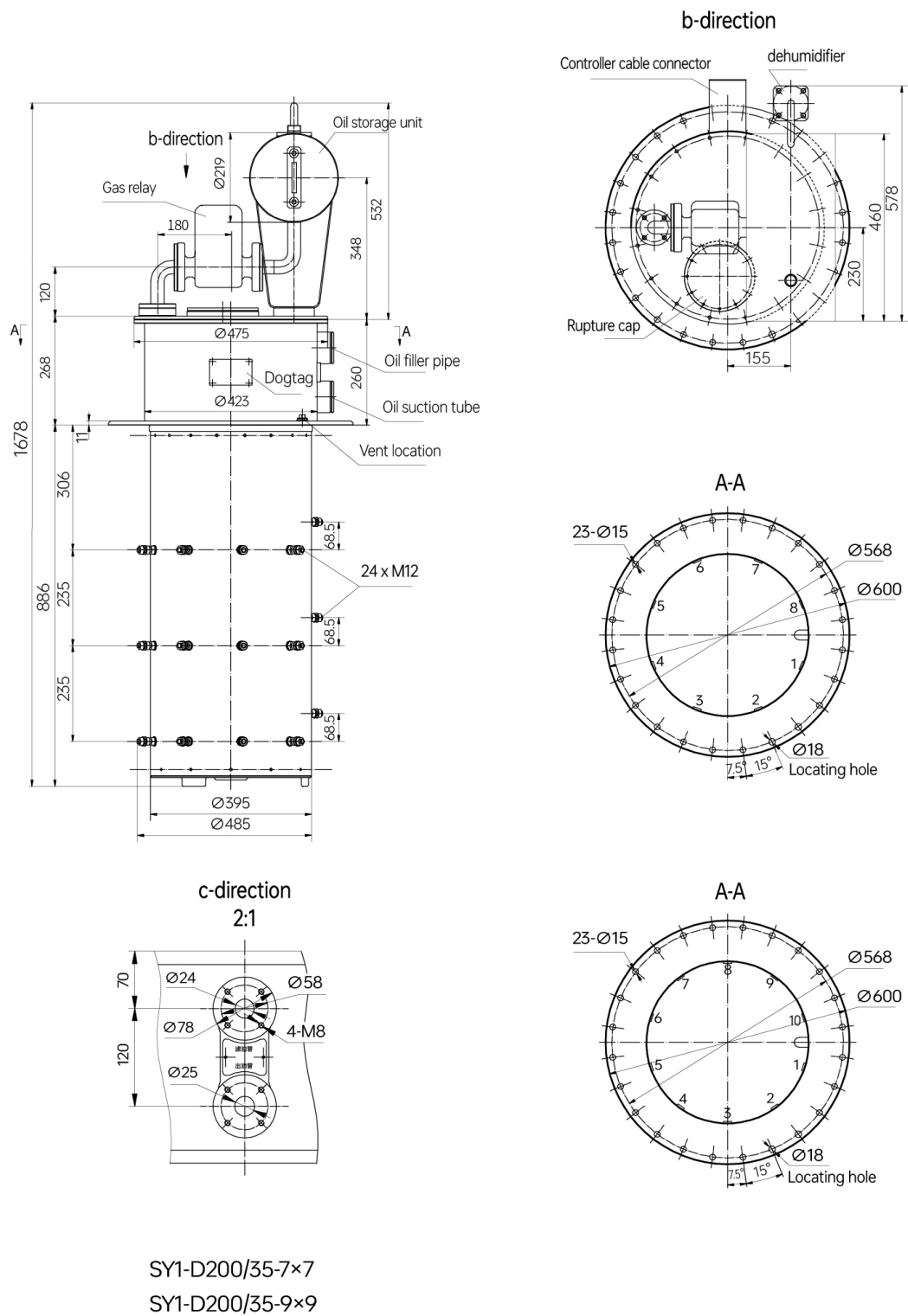


Figure 3 SY1-D200/35

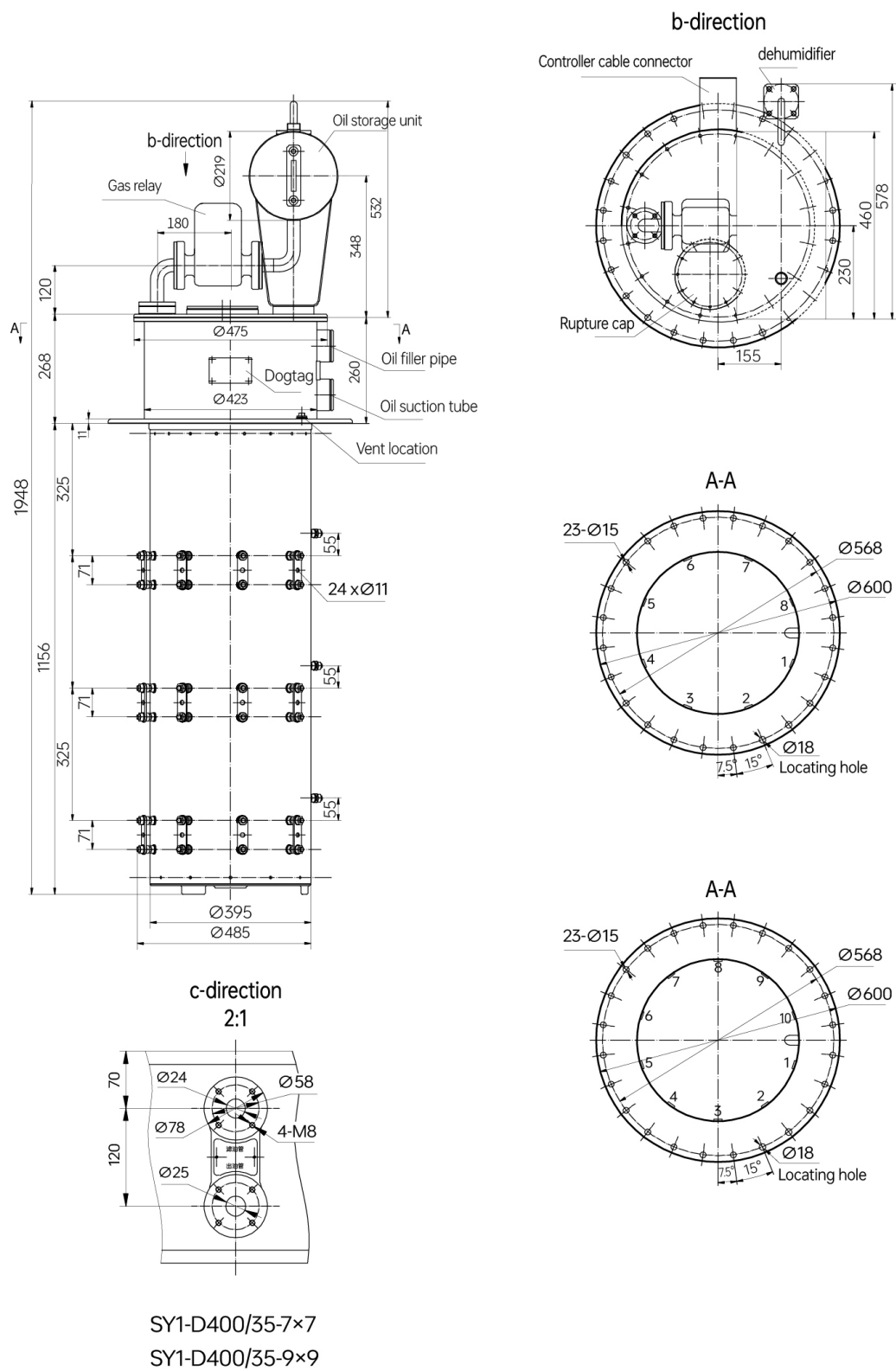


Figure 4 SY1-D400/35

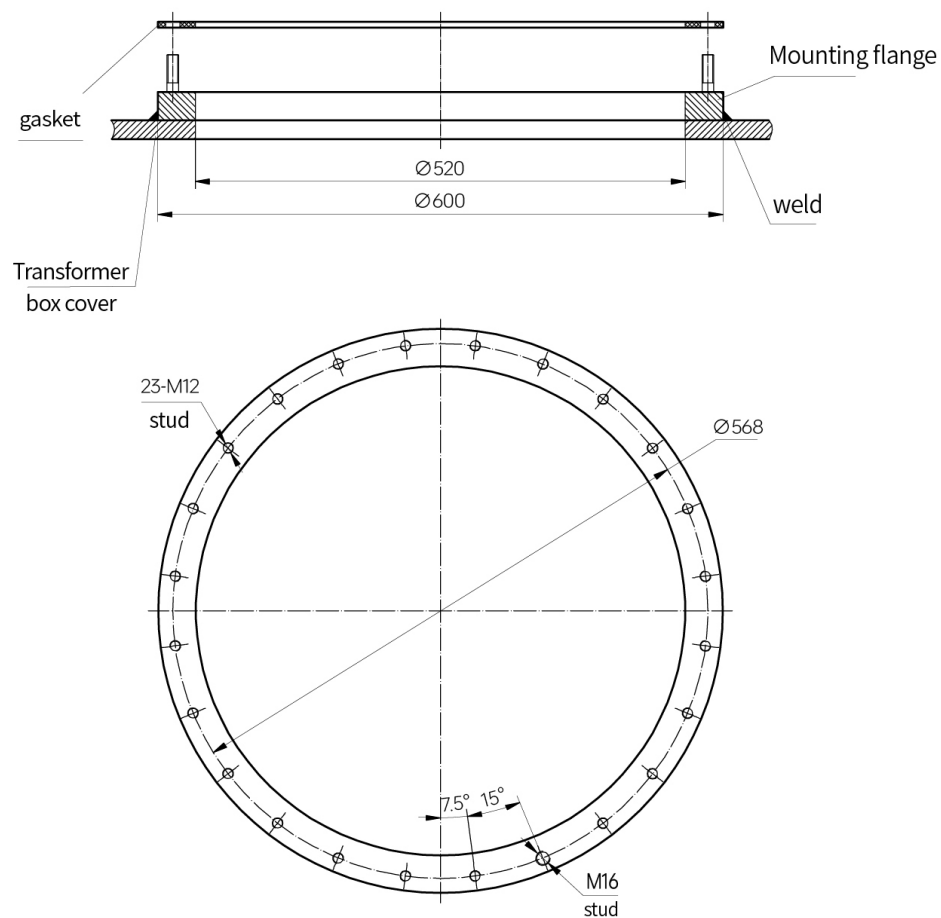


Figure 5 SY on-load tap-changer mounting flange and box cover opening control size diagram

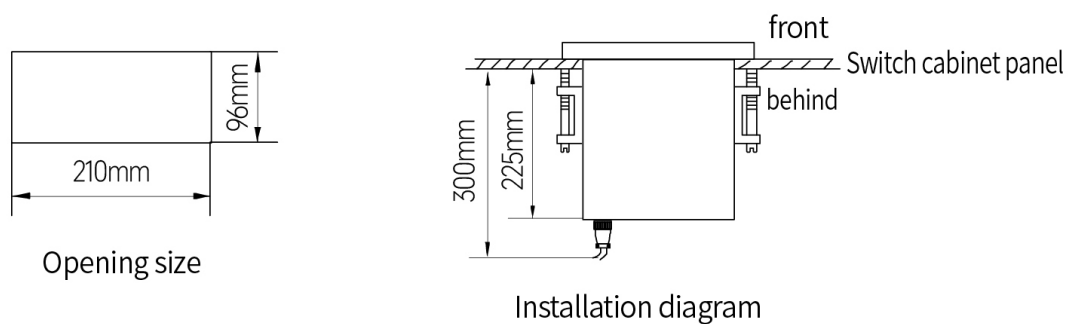


Figure 6 Installation dimensions and diagram of the YK-3 controller

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