

# Metering Station

Fig. 8100

## Specification

Design in accordance with BS 7350  
 Flanges comply with EN1092-2, ISO 7005, ANSI B16.5, GB/T 9119  
 Pressure test according to standards BS6755, EN12266-1

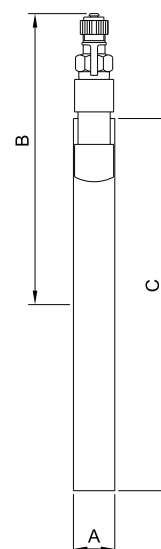
## Technical data

Working Pressure: 10bar / 16bar / 25bar  
 Dimensions: DN65~DN600  
 Testing Pressure: 16bar                      25bar  
                             Shell: 24 bar              37.5 bar  
                             Seal: 17.6bar              27.5 bar  
 Working Temperature: - 10°C~120°C

## Materials

| Part          | Material        | Specification       |
|---------------|-----------------|---------------------|
| Orifice       | Stainless Steel | BS970 304 / 316 S31 |
| Extender      | Stainless Steel | BS970 316 S31       |
| Testing valve | Brass           | BSEN12165 CW602N    |

## Schema



| Size        | mm   | DN65  | DN80 | DN100 | DN125 | DN150 | DN200 | DN250 | DN300 | DN350 | DN400 | DN450 | DN500 | DN600 |
|-------------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|             | Inch | 2-1/2 | 3    | 4     | 5     | 6     | 8     | 10    | 12    | 14    | 16    | 18    | 20    | 24    |
| A (mm)      |      | 18    | 18   | 18    | 18    | 18    | 18    | 18    | 18    | 21    | 21    | 21    | 21    | 25    |
| B (mm)      |      | 112   | 118  | 125   | 135   | 145   | 165   | 185   | 205   | 222   | 240   | 261   | 283   | 325   |
| C (mm) PN16 |      | 127   | 142  | 162   | 192   | 218   | 273   | 329   | 384   | 444   | 495   | 555   | 617   | 734   |
| C (mm) PN25 |      | 127   | 142  | 168   | 194   | 224   | 284   | 340   | 400   | 457   | 514   | 564   | 624   | 731   |
| Kv          |      | 151   | 203  | 351   | 550   | 765   | 1354  | 2103  | 3009  | 2734  | 3507  | 4543  | 5603  | 8111  |
| Head loss K |      | 1.6   | 1.4  | 1.4   | 1.3   | 1.7   | 1.8   | 1.8   | 1.4   | 2.5   | 2.5   | 2.5   | 2.5   | 2.5   |
| Kvs         |      | 104   | 116  | 213   | 333   | 476   | 768   | 1153  | 1743  | 1875  | 2582  | 3270  | 4079  | 4938  |

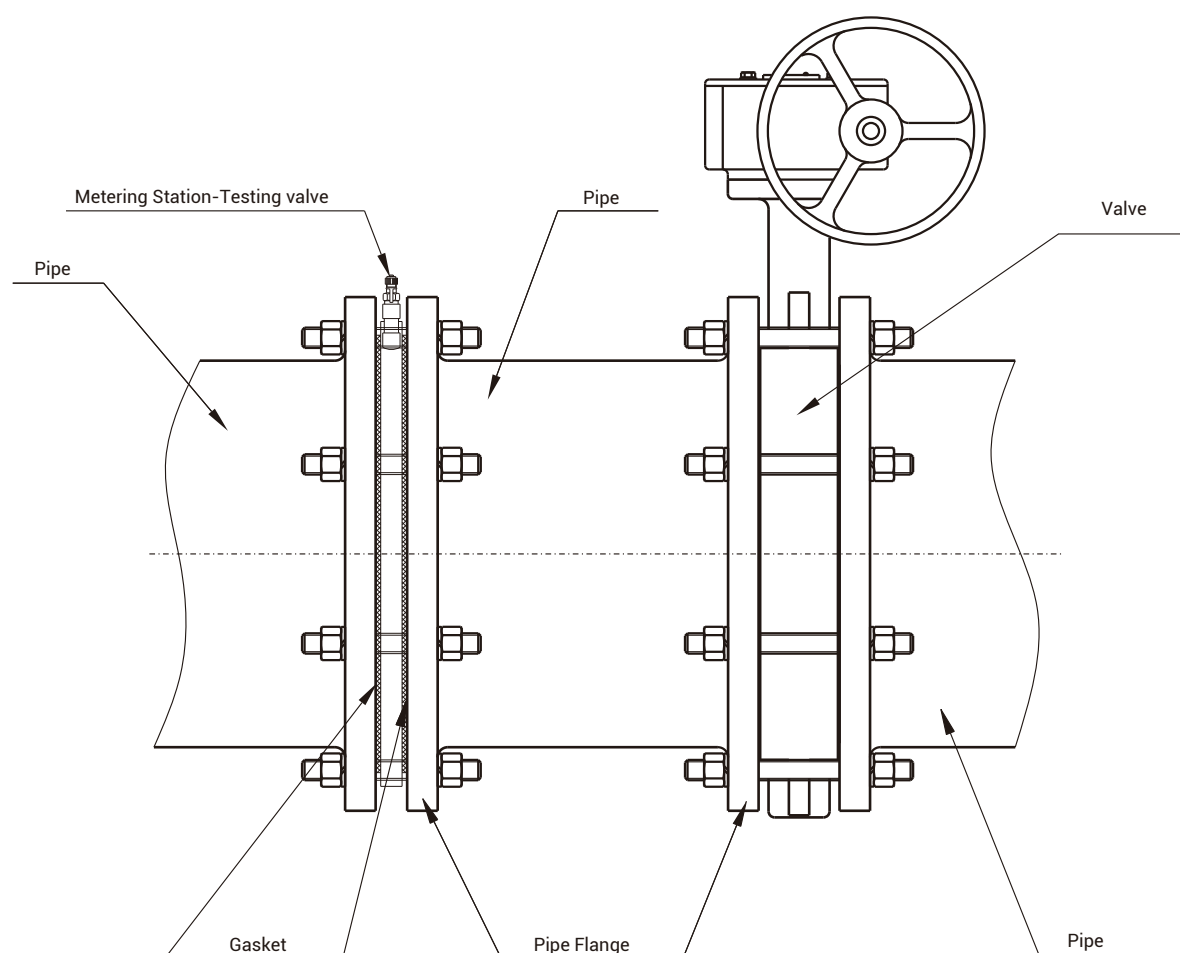
Larger sizes and other flange mounts can be applied.

WA reserves the right to change dimensions without notice.

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Fig. 8100

## Installation



Orifice plate Fig.8100 can be installed between valves and/or pipe flanges rated PN10, PN16 or PN25 according to BS EN 1092-2.

When installed between PN10 / PN16 flanges and PN25 flanges with a maximum size of 80mm, ensure that the measuring orifice diameter is properly aligned.

When assembling between PN25 flanges with dimensions greater than or equal to 100mm, ensure that the measuring hole plate is properly aligned with the matching flange.

The orifice plate Fig.8100 can be used as a single device or in close connection with other regulating or isolating valves to provide accurate flow measurement.