

V46

2-way Pressure Actuated Water Valves - Commercial Applications

These pressure actuated modulating valves control the quantity of water to a condenser by directly sensing pressure changes in a refrigerant circuit.

The valves can be used in non-corrosive refrigerant systems. Ammonia power elements and valves designed for salt-water applications are available.

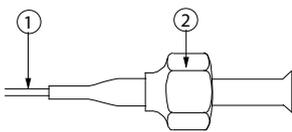
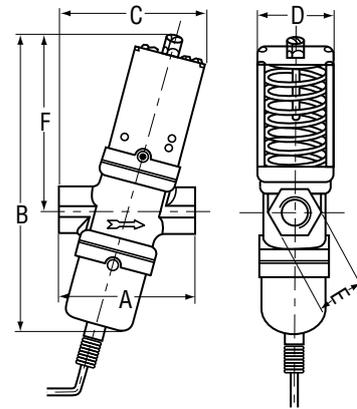
The valves have a quick opening characteristic and open on pressure increase (direct acting). Reverse acting (close on pressure increase) is possible.

Features

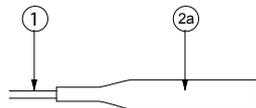
- Pressure balanced valve design
- Pressure actuated
- 3/8, 1/2, 3/4" are angled body type valves with high Kv value
- 3/8" up to 2" pressure valves "all range" types
- Quick opening valve characteristics
- No close fitting or sliding parts in water passages
- Easy to disassemble. All parts can be replaced
- Special bronze bodies and monel parts
- Power elements with stainless steel bellows available
- Wide range of pressure connection styles
- Nickel plated seats available for 3/8, 1/2, and 3/4" valves
- Direct/reverse action



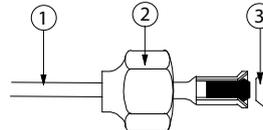
| Valve Size | Dimensions in mm | | | | | |
|------------|------------------|-----|----|----|----|-----|
| | A | B | C | D | E | F |
| 3/8" | 69 | 153 | 66 | 43 | 18 | 89 |
| 1/2" | 80 | 170 | 86 | 51 | 27 | 100 |
| 3/4" | 91 | 183 | 95 | 55 | 36 | 110 |



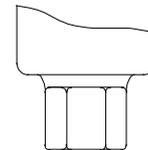
Style 13
(excl. valve depressor)
1: 75 cm capillary
2: 7/16-20 UNF flare nut



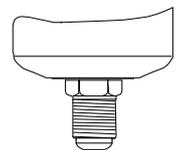
Style 34
1: 75 cm capillary
2: 1/4" tube for braze connection



Style 50
(incl. valve depressor mounted into machined flare)
1: 75 cm capillary
2: 1/4" tube for braze connection
3: copper sealring



Style 15
1/4-18NPT (female)



Style 5
7/16-20 UNF

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2-way Pressure Actuated Water Valves - *Commercial Applications*

| Ordering Codes | Range (bar) | Body Style | Size Thread according to ISO 228 | Style | Capillary Length (cm) | Additional Features It is possible to change Style 13 into Style 45A by ordering KIT031N600 | | |
|----------------|-------------|------------|----------------------------------|-------|-------------------------------------|--|--|--------------------------------|
| V46AA -9600 | 5...18 | Angled | 3/8" | 13 | 75 | --- | | |
| V46AA -9608* | | | | | | With special washer to prevent waterhammer at low flow capacity | | |
| V46AA -9602* | | | | 100 | Nickel plated seat/longer capillary | | | |
| V46AA -9950 | | | | | 34 | 75 | Nickel plated seat/solder connection | |
| V46AA -9951* | | | | | | | .040" i.d.cap./solder connection | |
| V46AB -9600 | | | | | 1/2" | 13 | --- | |
| V46AB -9950 | | | | | | 34 | Solder connection/"062" id.cap | |
| V46AC -9600 | | | | | 3/4" | 13 | --- | |
| V46AC -9951 | | | | | | 34 | Solder connection | |
| V46AA -9300 | 5...23 | Angled | 3/8" | 5 | --- | --- | | |
| V46AA -9301* | | | | | | | Nickel plated seat, high range. With washer to prevent waterhammer at low flow capacity | |
| V46AA -9606 | | | | | | | Nickel plated seat, high range | |
| V46AA -9609* | | | | | 13 | 75 | Nickel plated seat, high range. With washer to prevent waterhammer at low flow capacity | |
| V46AA -9510 | | | | | 50 | | High range | |
| V46AB -9300 | | | | | 1/2" | 5 | --- | |
| V46AB -9605 | | | | | | 13 | 75 | Nickel plated seat, high range |
| V46AB -9951 | | | | | | 34 | | Solder connection, high range |
| V46AB -9510 | | | | | | 50 | | High range |
| V46AC -9300 | | | | | 3/4" | 5 | --- | |
| V46AC -9605 | | | | | | 13 | Nickel plated seat, high range | |
| V46AC -9510 | | | | | | 50 | High range | |

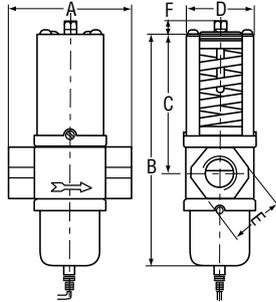
REFRIGERATION COMPONENTS

Modulating Water Valves

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2-way Pressure Actuated Water Valves - Commercial Applications

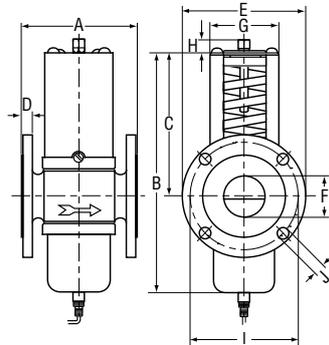


| Valve Size | Dimension in mm | | | | | |
|------------|-----------------|-----|-----|----|----|----|
| | A | B | C | D | E | F |
| 1" | 124 | 233 | 139 | 72 | 50 | 13 |
| 1 1/4" | 125 | 243 | 145 | 72 | 58 | 13 |

| Ordering Codes | Range (bar) | Body Style | Size Thread according to ISO 7-Rc | Style | Capillary Length | Additional Features It is possible to change Style 13 into Style 45A by ordering KIT031N600 |
|----------------|-------------|------------|-----------------------------------|-------|------------------|--|
| V46AD -9300 | 5...18 | Straight | 1" | 5 | --- | --- |
| V46AD -9510 | | | | 50 | 75 | |
| V46AD -9600 | | | | 13 | 75 | |
| V46AE -9300 | | | 1 1/4" | 5 | --- | |
| V46AE -9510 | | | | 50 | 75 | |
| V46AE -9600 | | | | 13 | 75 | |
| V46AD -9511 | 10...23 | | 1" | 50 | 75 | High range |
| V46AE -9512 | | | 1 1/4" | | | |

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2-way Pressure Actuated Water Valves - *Commercial Applications*



| Valve Size | Dimensions in mm | | | | | | | | | |
|------------|------------------|-----|-----|----|-----|----|----|----|-----|----|
| | A | B | C | D | E | F | G | H | I | J |
| 1½" | 137 | 244 | 144 | 18 | 150 | 47 | 67 | 13 | 110 | 18 |
| 2" | 168 | 304 | 164 | 20 | 165 | 57 | 90 | 18 | 125 | |
| 2½" | 172 | | | | 185 | 70 | | | 145 | |

| Ordering Codes | Range (bar) | Body Style | Size DIN2533 Flang Connections | Style | Capillary Length | Additional Features It is possible to change Style 13 into Style 45A by ordering KIT031N600 |
|----------------|-------------|------------|--------------------------------|-------|------------------|--|
| V46AR-9300 | 5...18 | Straight | 1½" | 5 | --- | --- |
| V46AR-9600 | | | | 13 | 75 | |
| V46AS-9300 | 5...11.5 | | 2" | 5 | --- | --- |
| V46AS-9301 | 11...18 | | | | | |
| V46AT-9300 | 5...11.5 | | 2½" | 5 | --- | --- |
| V46AT-9301 | 11...18 | | | | | |

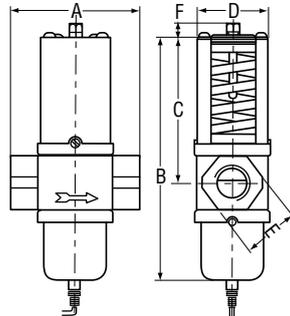
REFRIGERATION COMPONENTS

Modulating Water Valves

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2-way Pressure Actuated Water Valves - *Maritime Applications*

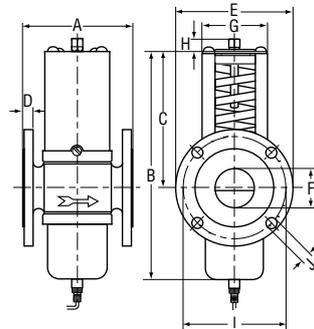


| Valve Size | Dimension in mm | | | | | |
|------------|-----------------|-----|-----|----|----|----|
| | A | B | C | D | E | F |
| 3/8" | 68 | 161 | 80 | 42 | 32 | 10 |
| 1/2" | 79 | 165 | 86 | 52 | 29 | |
| 3/4" | 86 | 175 | 96 | 55 | 35 | |
| 1" | 124 | 246 | 139 | 71 | 39 | 13 |
| 1 1/4" | | 254 | 144 | | 48 | |

| Ordering Codes | Range (bar) | Body Style | Size thread according to ISO 228 | Style | Capillary Length | Additional Features It is possible to change Style 13 into Style 45A by ordering KIT031N600 | |
|----------------|-------------|------------|----------------------------------|-------|------------------|--|-----|
| V46BA-9600 | 5...18 | Straight | 3/8" | 13 | 75 | --- | |
| V46BB-9600 | | | 1/2" | | | | |
| V46BC-9600 | | | 3/4" | | | | |
| V46BD-9600 | | | 1" | | | | |
| V46BE-9510 | | | 1 1/4" | | | | 50 |
| V46BE-9600 | | | 13 | | | | |
| V46BA-9510 | 5 ...23 | | 3/8" | 50 | 140 | Longer capillary | |
| V46BB-9510 | | | 1/2" | | | | |
| V46BC-9510 | | | 3/4" | | | | |
| V46BC-9511 | | | 1" | | | | |
| V46BD-9510 | 10...23 | | 1" | 75 | --- | --- | |
| V46BE-9511 | | | 1 1/4" | | | | 150 |

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2-way Pressure Actuated Water Valves - *Maritime Applications*



| Valve Size | Dimensions in mm | | | | | | | | | |
|------------|------------------|-----|-----|----|-----|----|----|----|-----|----|
| | A | B | C | D | E | F | G | H | I | J |
| 1½" | 135 | 244 | 144 | 14 | 150 | 47 | 67 | 13 | 110 | 18 |
| 2" | 162 | 304 | 164 | 16 | 165 | 57 | 90 | 18 | 125 | |
| 2½" | 172 | | | | 185 | 70 | | | 145 | |

| Ordering Codes | Range (bar) | Body Style | Size DIN 86021 flange connections | Style | Capillary Length |
|----------------|-------------|------------|-----------------------------------|-------|------------------|
| V46BR-9510 | 5...18 | Straight | 1½" | 50 | 75 |
| V46BR-9600 | | | | 13 | |
| V46BS-9300 | 5...11.5 | | 2" | 5 | --- |
| V46BS-9301 | 11...18 | | | | |
| V46BT-9300 | 5...11.5 | | 2½" | | |
| V46BT-9301 | 11...18 | | | | |