Ref. : VPN 3448-BX4.pas

Rev. : Initial

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# BUTTERFLY VALVE WITH ELECTRIC ACTUATOR

# VPN 3448-BX4

Tecofi VALVE DESIGNER - FRANCE

## APPLICATION

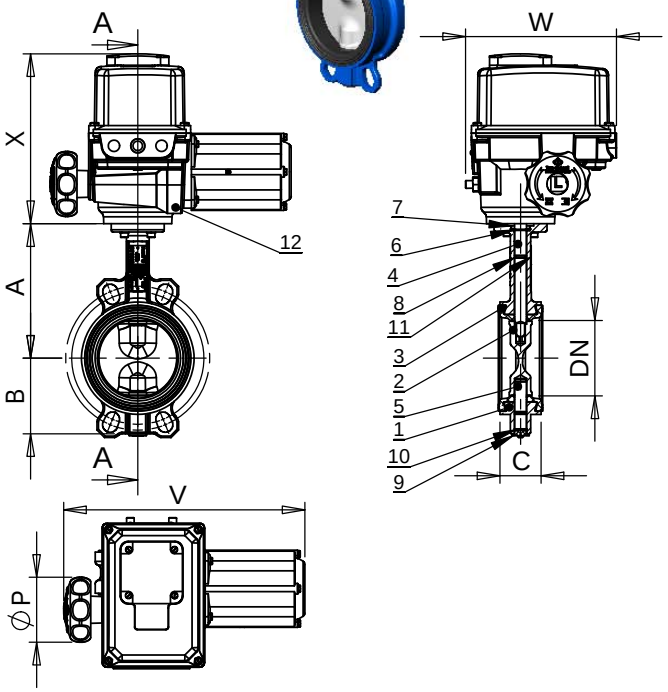
General use : water, air, acids etc...

## CARACTERISTIQUES GENERALES

Design according with BS EN 593.
Type with lugs, tightness in both ways.
Sleeve in dovetail shape ensures a perfect assembling (for high vacuum we can stick it).
High and low semi stem giving a high flow coefficient, machined disc on periphery giving a low and regular torque.
Unejectable stem, dovetail type sleeve, mounting flange according to ISO 5211.

## PRODUCT REFERENCE

| | VPN 3448-BX4 | Electric actuator type |
|---|---|---|
| | VPN 3448-B04 | BERNARD 400V 3 PH |
| | VPN 3448-B14 | BERNARD 230V 3 PH |
| | VPN 3448-B24 | BERNARD 230V 1 PH |




## CONSTRUCTION

| | | | | |
|---|---|---|---|---|
| 12 | 1 | Electric actuator | BERNARD | |
| 11 | 1 | Nameplate | Stainless steel 304 | |
| 10 | 2 | Circlip | Steel | |
| 9 | 1 | Bottom cover | NBR | |
| 8 | 2 | O ring | EPDM | |
| 7 | 1 | Antidust ring | NBR | |
| 6 | 1 | Anti blowout ring | Stainless steel 420 | DIN : 1.4021<br>ASTM : AISI 420<br>BS : 420 S 37 |
| 5 | 1 | Upper stem | Stainless steel 420 | DIN : 1.4021<br>ASTM : AISI 420<br>BS : 420 S 37 |
| 4 | 1 | Lower stem | Stainless steel 420 | DIN : 1.4021<br>ASTM : AISI 420<br>BS : 420 S 37 |
| 3 | 1 | Sleeve | EPDM CH | In standard |
| 2 | 1 | Disc | Ductile iron<br>EN-GJS-400-15 | DIN: GGG 40<br>ASTM: A536 65-45-12<br>BS: 1563 EN-JS1030 |
| 1 | 1 | Body | EN-GJL-250 | DIN : GG25<br>ASTM : A48 class 40B<br>BS : 1452 Grade 250 |

## DIMENSIONS

| DN | | A | B | C | Weight (valve + actuator) (kg) | |
|---|---|---|---|---|---|---|
| mm | inch | | | | VPN 3448-B04<br>VPN 3448-B14 | VPN 3448-B24 |
| 40 | 1"1/2 | 134,0 | 58 | 34,0 | 8,44 | 7,44 |
| 50 | 2" | 139,7 | 65 | 41,8 | 9,04 | 8,04 |
| 65 | 2"1/2 | 152,4 | 73 | 45,3 | 9,44 | 8,44 |
| 80 | 3" | 158,8 | 85 | 45,3 | 10,00 | 9,00 |
| 100 | 4" | 178,0 | 100 | 51,5 | 10,82 | 9,82 |
| 125 | 5" | 190,5 | 115 | 54,5 | 13,02 | 13,02 |
| 150 | 6" | 203,0 | 120 | 54,5 | 13,92 | 13,92 |
| 200 | 8" | 238,0 | 160 | 59,6 | 19,08 | 19,08 |
| 250 | 10" | 268,3 | 195 | 68,0 | 33,98 | 33,98 |
| 300 | 12" | 306,4 | 230 | 78,0 | 48,80 | 48,80 |

## ACTUATOR DIMENSIONS

| DN | Product reference | Actuator reference | | ØP | V | W | X |
|---|---|---|---|---|---|---|---|
| DN 40-100 | VPN 3448-B24 | EZ4 | 230V 1PH 50Hz | 90 | 273 | 200 | 225 |
| | VPN 3448-B14 | OA6 | 230V 3PH 50Hz | 90 | 319 | 200 | 225 |
| | VPN 3448-B04 | EZ6 | 400V 3PH 50Hz | | | | |
| DN 125-150 | VPN 3448-B24 | EZ10 | 230V 1PH 50Hz | 90 | 319 | 200 | 225 |
| | VPN 3448-B14 | OA8 | 230V 3PH 50Hz | | | | |
| | VPN 3448-B04 | EZ10 | 400V 3PH 50Hz | | | | |
| DN 200 | VPN 3448-B24 | EZ15 | 230V 1PH 50Hz | 90 | 362 | 200 | 225 |
| | VPN 3448-B14 | OA15 | 230V 3PH 50Hz | | | | |
| | VPN 3448-B04 | EZ15 | 400V 3PH 50Hz | | | | |
| DN 250 | VPN 3448-B24 | EZ25 | 230V 1PH 50Hz | 160 | 459 | 313 | 180 |
| | VPN 3448-B14 | ASP | 230V 3PH 50Hz | | | | |
| | VPN 3448-B04 | EZ25 | 400V 3PH 50Hz | | | | |
| DN 300 | VPN 3448-B24 | EZ60 | 230V 1PH 50Hz | 250 | 528 | 313 | 180 |
| | VPN 3448-B14 | AS50 | 230V 3PH 50Hz | | | | |
| | VPN 3448-B04 | EZ60 | 400V 3PH 50Hz | | | | |

Maximum differential pressure: 16 bar

## WORKING CONDITIONS

Maximum working pressure : 16 bar.
Maximum working temperature : -15°C / +130°C.
Peak temperature: -30°C / +150°C

| Sleeve types in option | Maximum temperature | Peak temperature |
|---|---|---|
| EPDM | + 4°C / + 110°C | - 20°C / +130°C |
| White EPDM | + 4°C / + 110°C | - 20°C / +130°C |
| CSM (Type Hypalon®) | + 4°C / +80°C | - 20°C / +110°C |
| FPM (Type Viton®) | - 10°C / +170°C | - 20°C / +200°C |
| Silicone | - 20°C / +170°C | - 40°C / +200°C |
| Nitril (NBR) | - 10°C / +80°C | - 20°C / +90°C |

## STANDARDS

Manufacture according to the requirements of the European directive 97/23/CE «Equipment under pressure»:
fluids category III modulate H.
Face to face according to standards NF EN 558-1 serie 20, ISO 5272 série 20, DIN 3202.
Mounting between flanges PN 10 / PN 16: according to EN 1092-2, BS 450, ANSI B16.1-5.
Adjustable between flanges ASME B16.5 Class 150 and JIS 10K.
Pressure test according to standards EN 12266-1, DIN 3230, BS 6755 and ISO 5208 :
Corps: 24 bar
Siège: 17.6 bar

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