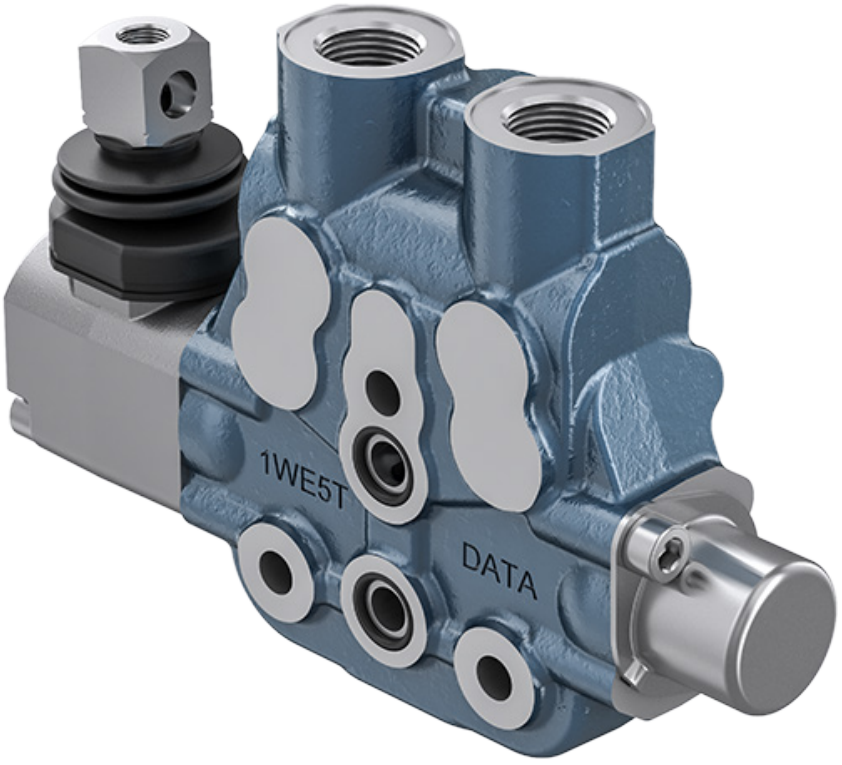
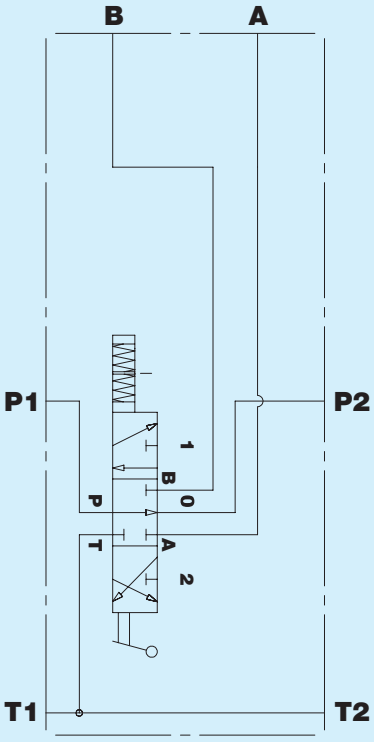
# BW0500TM Elemento 5/3 Tandem MANUAL
# Interface IBW0500

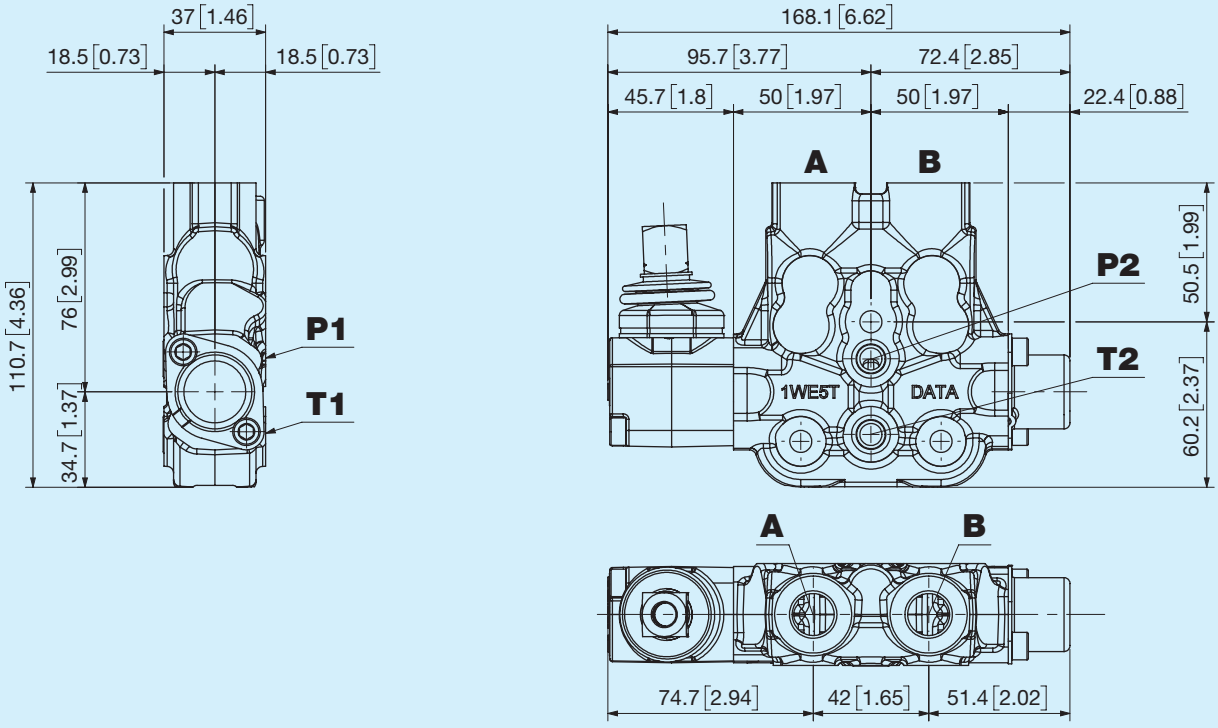



Antes de iniciar o uso, leia atentamento o documento INSTRUÇÕES GERAIS DE USO PARA AS VÁLVULAS DE CONTROLE DIRECIONAL

| | |
|---|---|
| Vazãonnominal | **35 l/min**<br>***9,24 US gpm*** |
| Pressão nominal | **210 bar**<br>***3045 psi*** |
| Contrapressão máxima para a descarga | **50 bar**<br>***725 psi*** |
| Troquel interno | **60 ± 15 cc/min** |
| Temperatura de uso | **-20°C +85°C NBR seals**<br>***(max peak +100°C)***<br>***-20°C + 130°C HNBR seals*** |
| Viscosidade do óleo de exercício | **de 15 mm²/s a 90 mm²/s**<br>***(15 cSt a 90 cSt)*** |
| Fluido | **Fluidos hidráulicos definidos pela norma ISO 6743-4** |
| Massa | **1,6 Kg**<br>***3,5 lb*** |
| Interface | **IBW0500** |



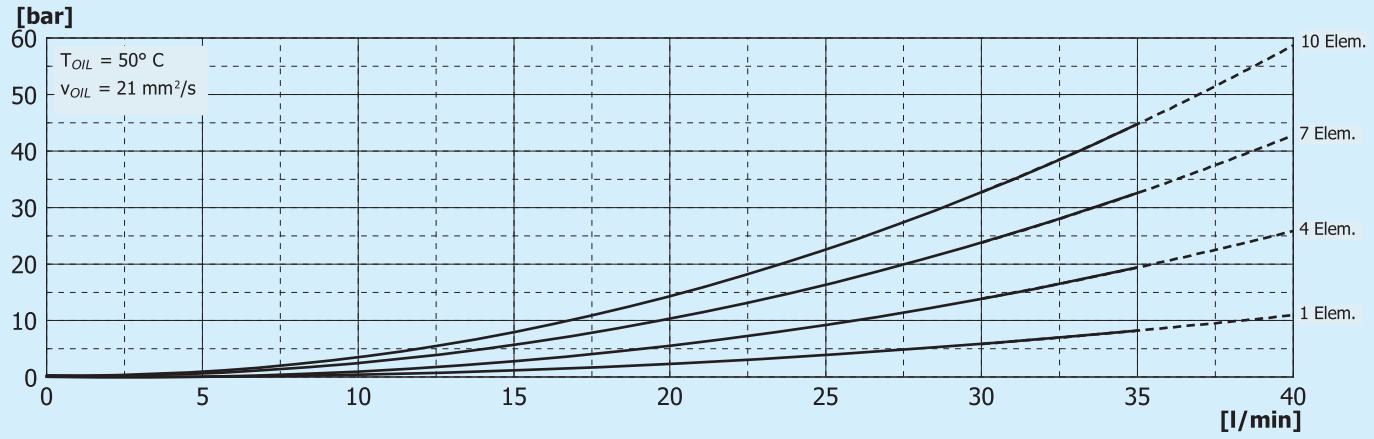

## Dimensões de volume



# Curve Caratteristiche

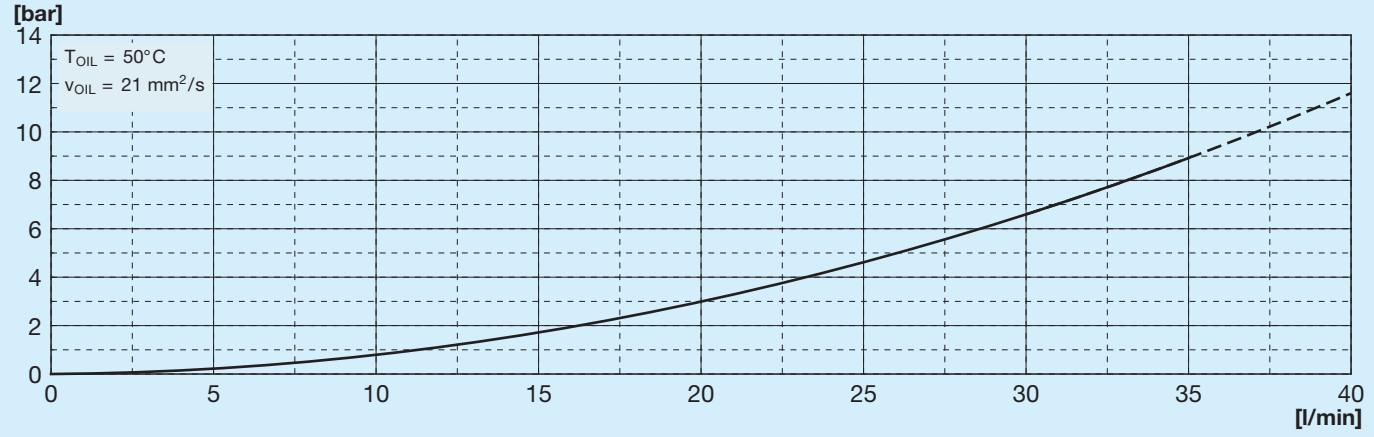
**BW0500TM**

## Perdas de carga P-T



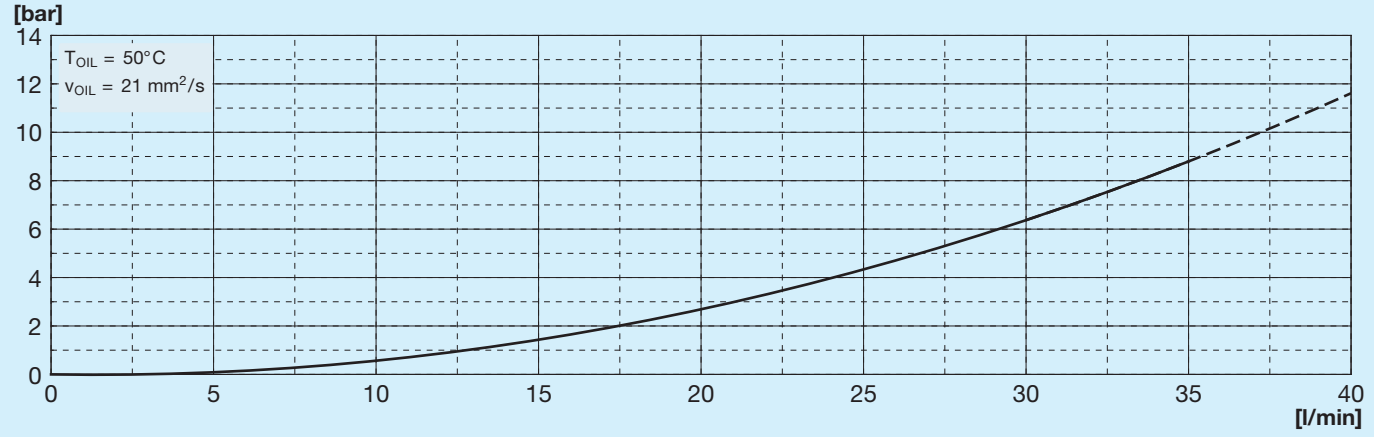

Parâmetros de teste: Circuito **001**

## Curva característica P-A/B



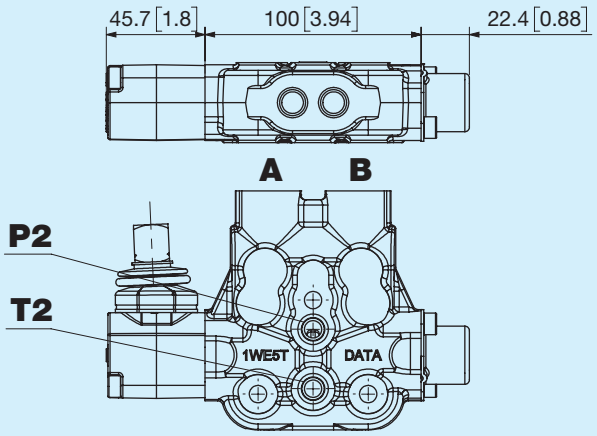

Parâmetros de teste: Circuito **001**

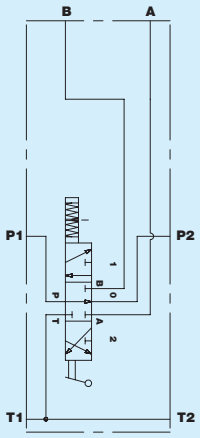
## Curva característica A/B-T



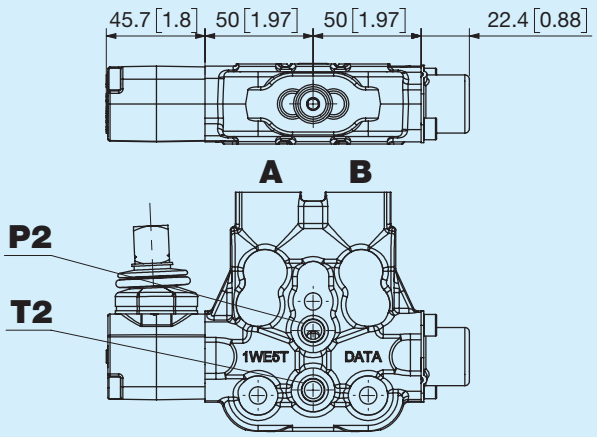

Parâmetros de teste: Circuito **001**

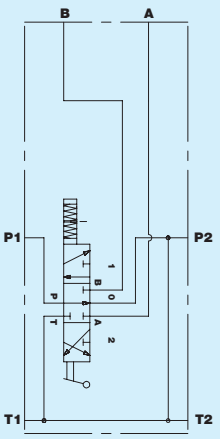
## A Tandem




## B Elemento de fechamento

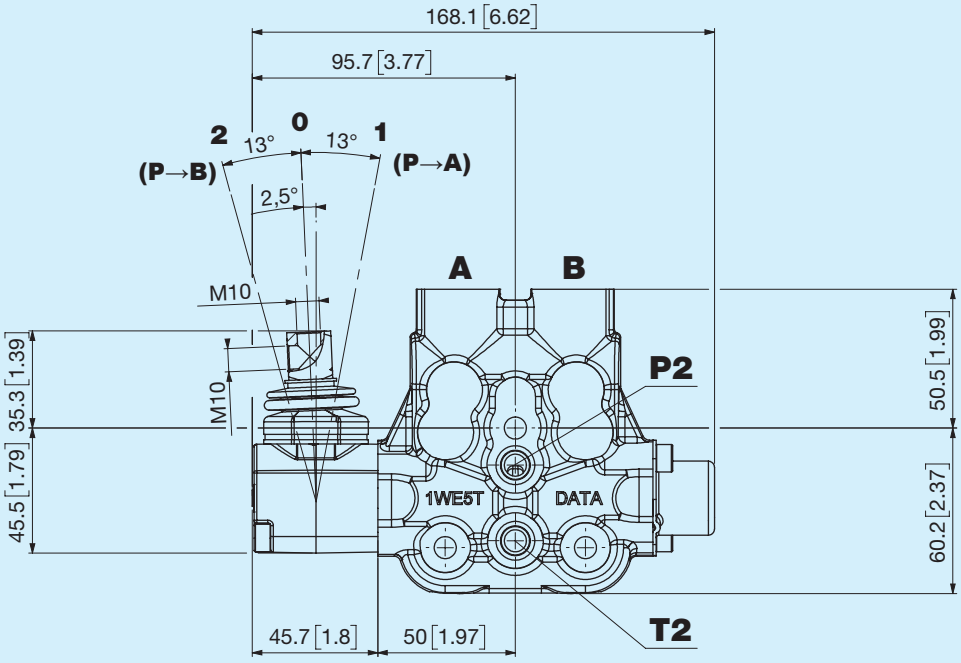


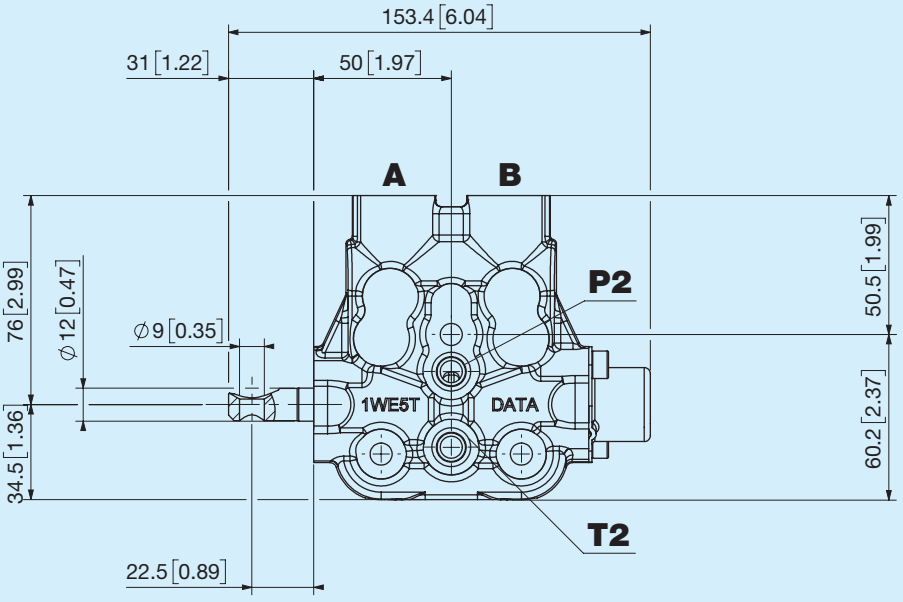
## Filettatura bocche A e B

| Código | Tipo | Aberto ± 10% Nm |
|---|---|---|
| A | 3/8'' GÁS ISO 1179 | 45 |
| C | M18x1,5 ISO 9974 | 45 |
| W | M18x1,5 ISO 6149 | 45 |
| E | 3/4'' - 16 SAE ISO 11926 | 45 |

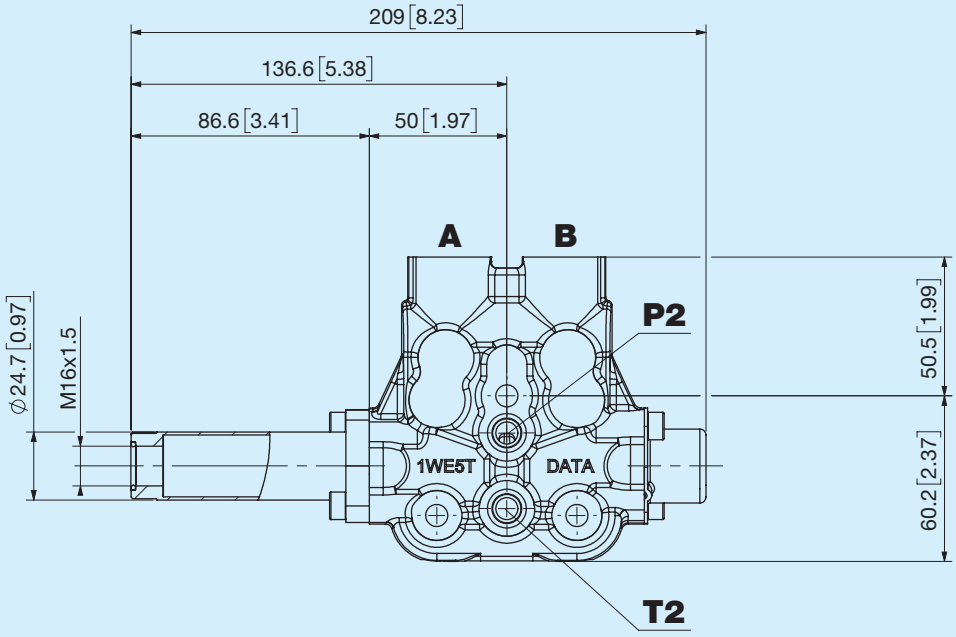
## L Padrão kit porta-alavanca



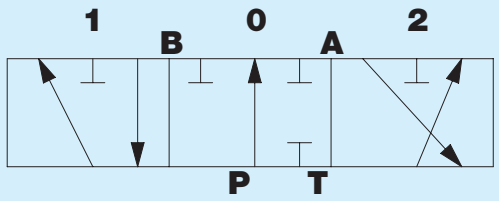

## A Sem porta-alavanca apêndice padrão



## T Predisposição acionamento com cabo



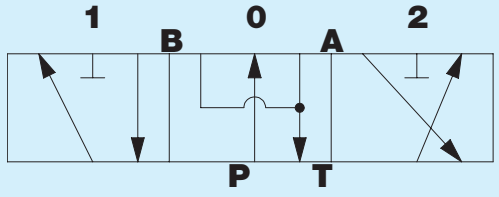
## 001 Circuito




Posições

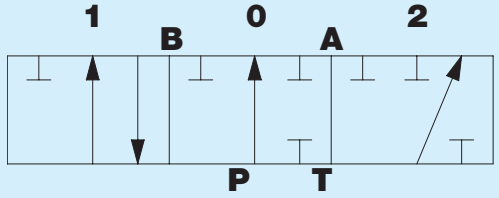
| 1 | 0 | 2 |
|---|---|---|
| P → B<br>A → T<br>BP ⊣ | A, B, T ⊣<br>BP → | P → A<br>B → T<br>BP ⊣ |

## 003 Circuito



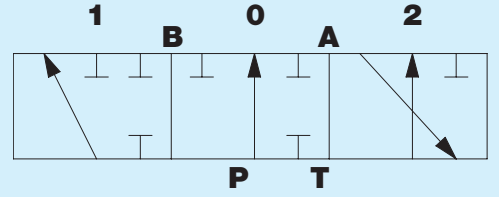

| 1 | 0 | 2 |
|---|---|---|
| P → B<br>A → T<br>BP ⊣ | A, B → T<br>BP → | P → A<br>B → T<br>BP ⊣ |

## 004 Circuito



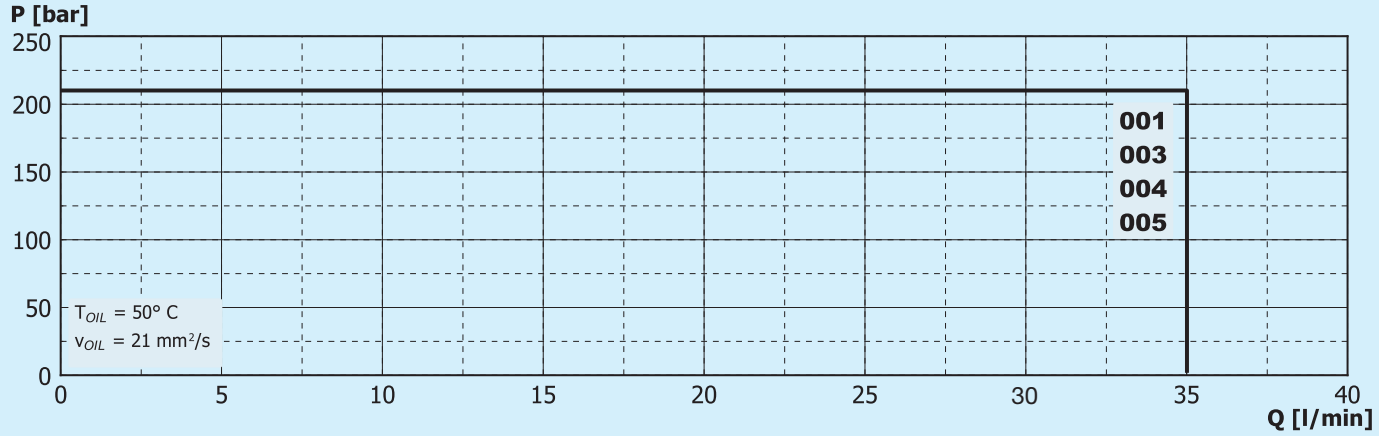

| 1 | 0 | 2 |
|---|---|---|
| B ⊣<br>A → T<br>BP → | A, B, T ⊣<br>BP → | P → A<br>B, T, BP ⊣ |

## 005 Circuito

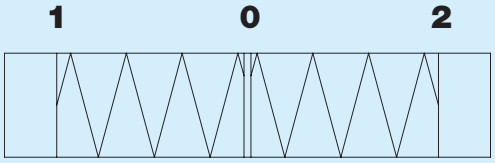



| 1 | 0 | 2 |
|---|---|---|
| P → B<br>A, T, BP ⊣ | A, B, T ⊣<br>BP → | B → T<br>A ⊣<br>BP → |

## Limites de uso por circuito

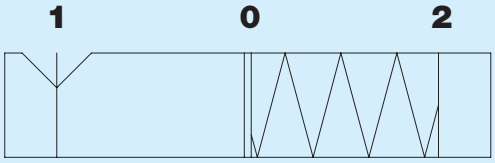


**0A**



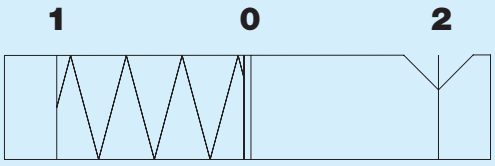

Posição neutra em 0

**0B**



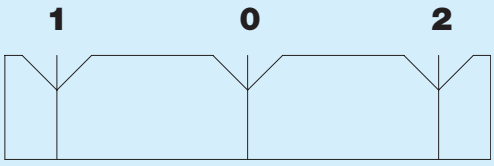

Posição neutra em 0, detent in 1

**0C**




Posição neutra em 0, detent in 2

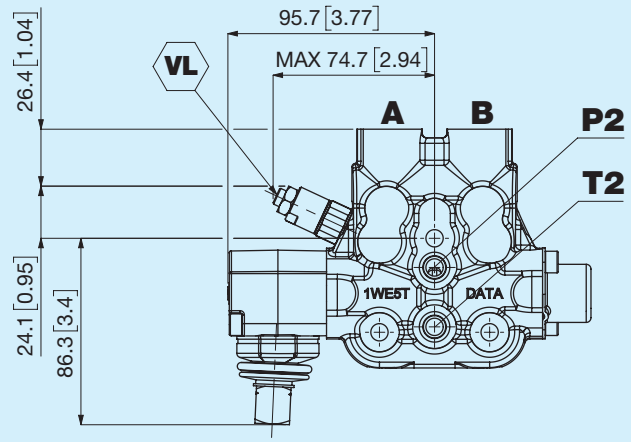
**0D**

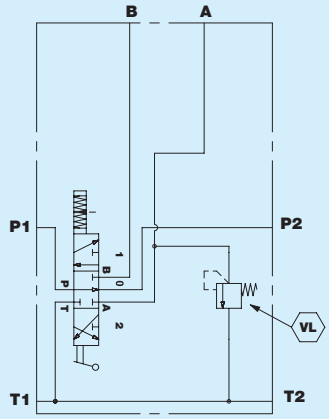



Detent in 0, 1, 2

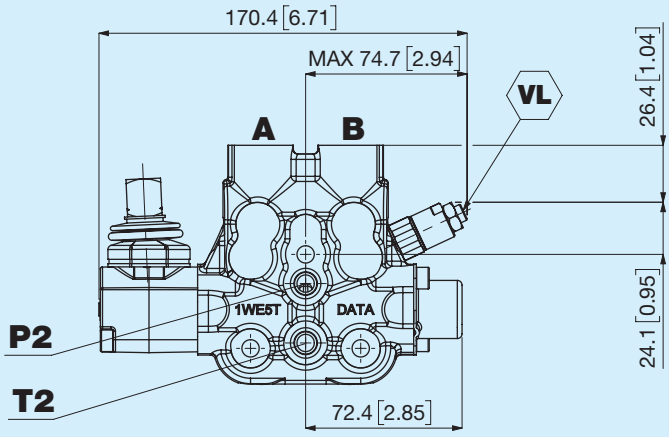
# Tipo de válvula conexão A - B

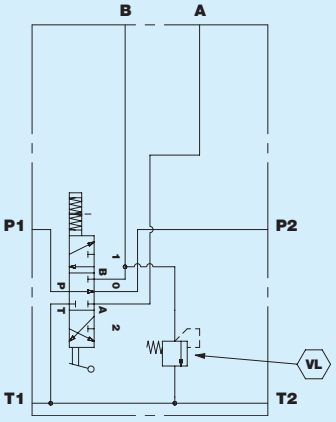
## VL Válvula limitadora de pressão conexão A



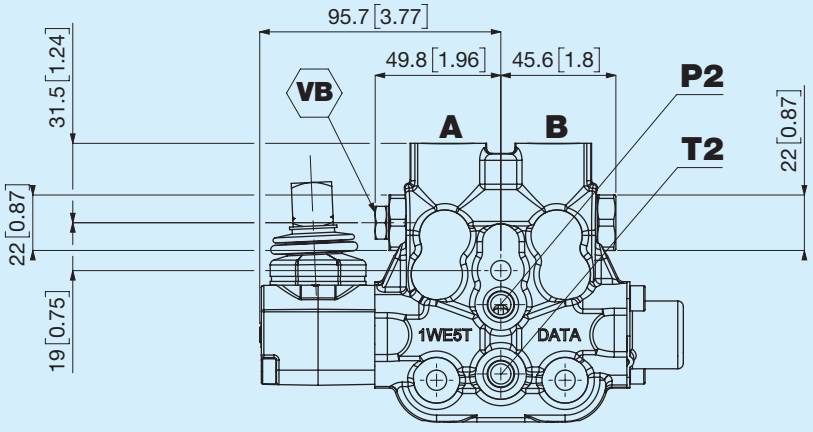



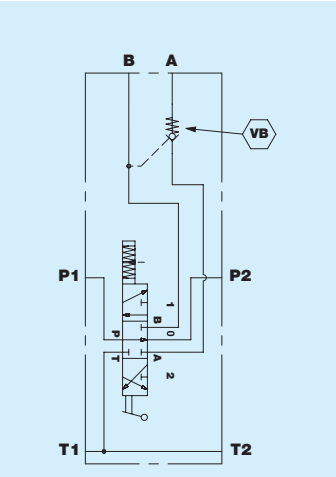

## VL Válvula limitadora de pressão conexão B



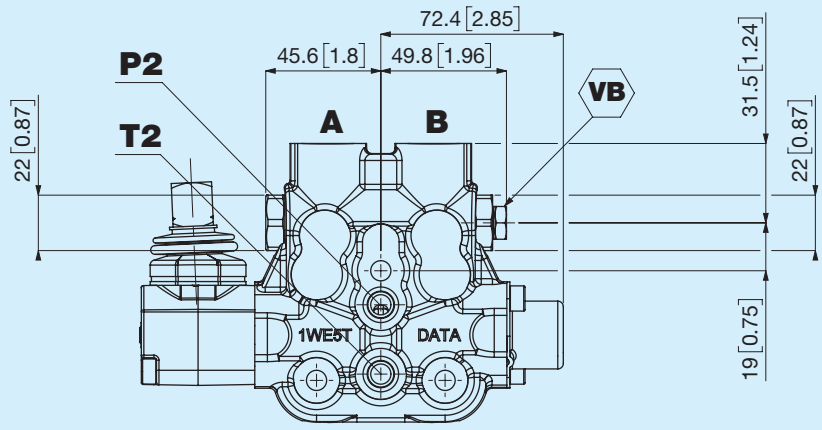



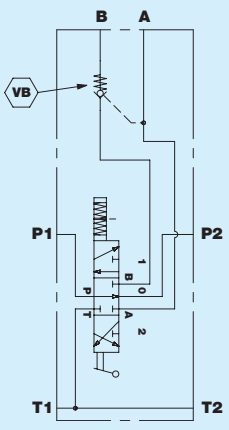

## VB Válvula de bloqueio pilotada conexão A



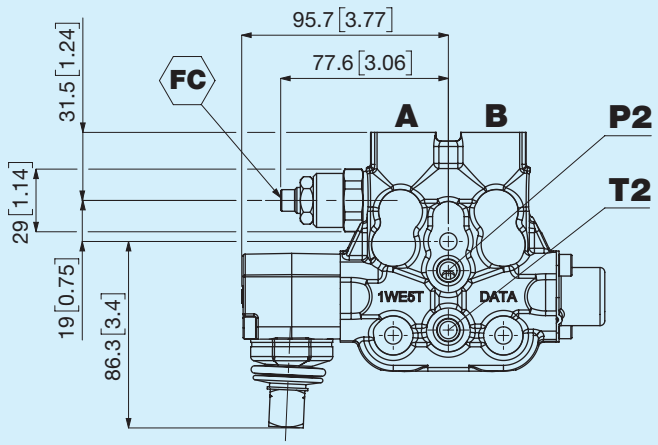



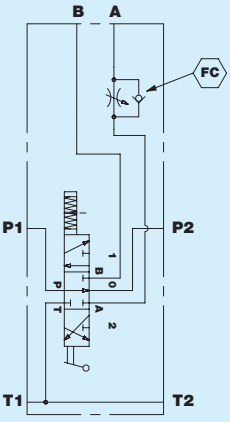
## VB Válvula de bloqueio pilotada conexão B



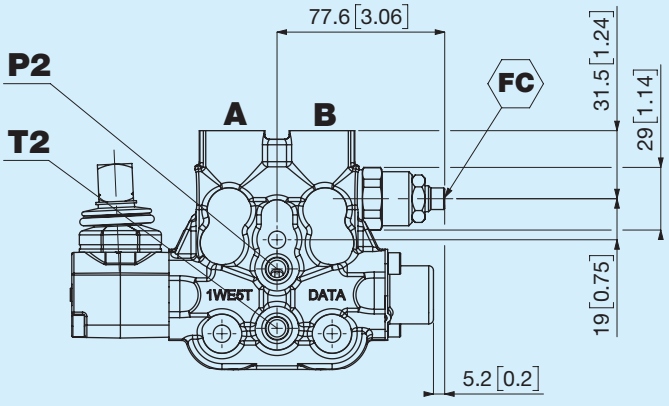



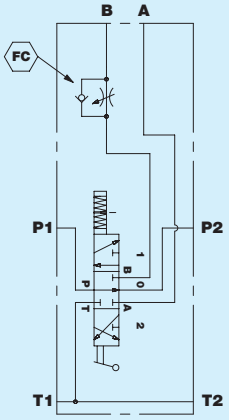

## FC Regulador de fluxo unidirecional conexão A



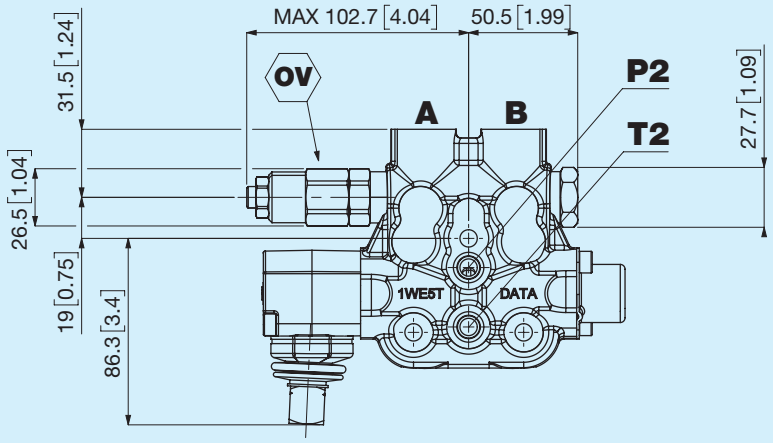

## FC Regulador de fluxo unidirecional conexão B



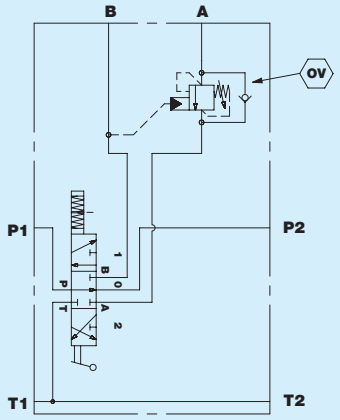



# Tipo de válvula conexão A - B

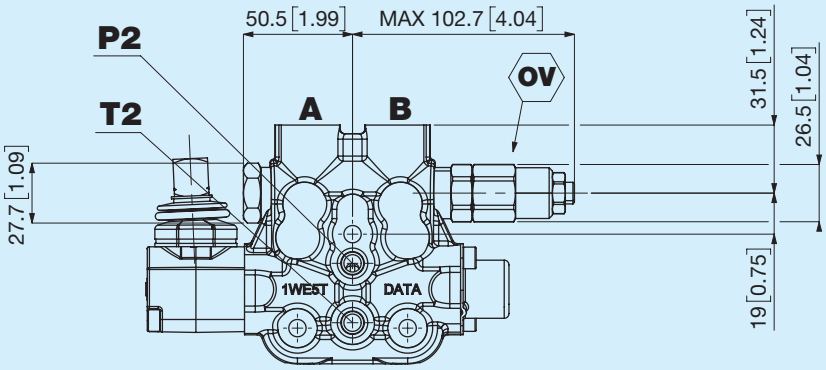
## OV Over-center conexão A



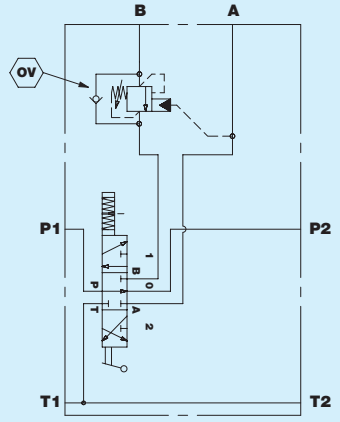

OV = máx 25 l/min



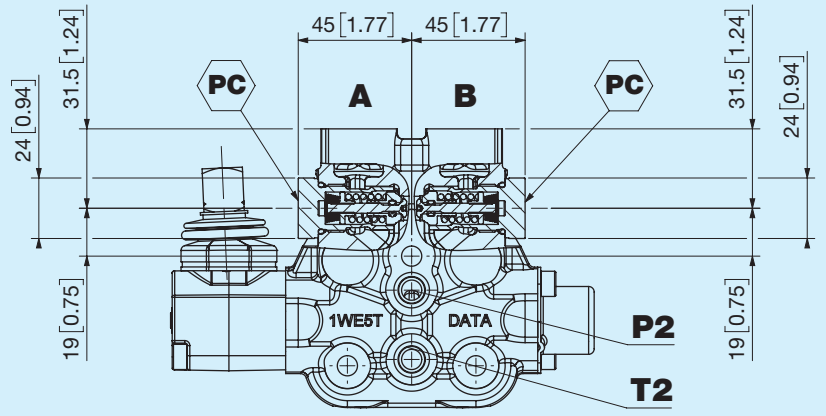

## OV Over-center conexão B

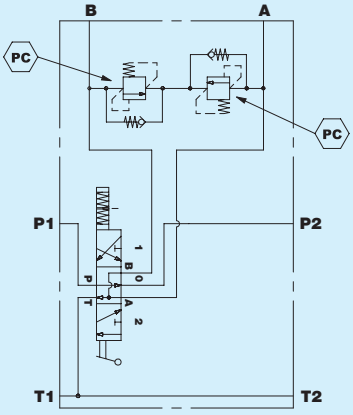



OV = máx 25 l/min




## PC VL de pressão e anticavitação cruzadas conexão A e B



# Tipo de válvula conexão A - B

## Possíveis combinações da válvula da conexão A e B

| Conexão A \ Conexão B | NN | VL | VB | FC | OV | PC |
|---|---|---|---|---|---|---|
| NN | • | • | • | • | • | |
| VL | • | • | | • | | |
| VB | • | | • | | | |
| FC | • | • | | • | | |
| OV | • | | | | • | |
| PC | | | | | | • |

**NN** Nenhuma

**VL** Válvula limitadora de pressão

**VB** Válvula de bloqueio pilotada

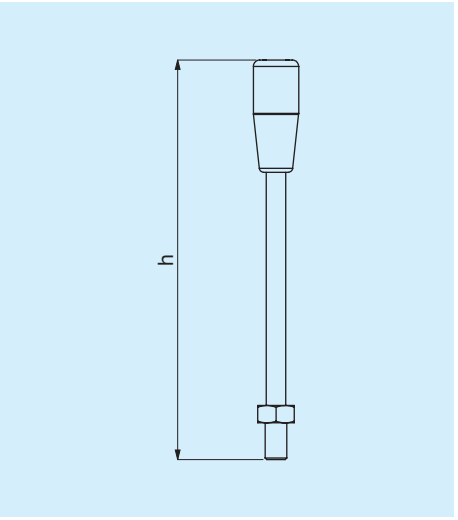
**FC** Regulador de fluxo unidirecional

**OV** Over-center

**PC** Válvula limitadora de pressão e de anticavitação interna cruzada

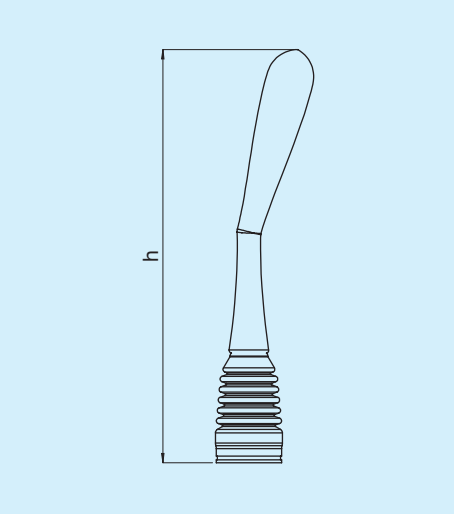
## Alavanca reta com botão padrão

| Código | Descrição | h [mm] | h [inch] |
|---|---|---|---|
| A | Reta botão padrão | 110 | 4,33 |
| B | Reta botão padrão | 130 | 5,12 |
| C | Reta botão padrão | 180 | 7,09 |
| D | Reta botão padrão | 210 | 8,27 |
| E | Reta botão padrão | 250 | 9,84 |
| F | Reta botão padrão | 300 | 11,81 |




## Alavanca ergonômica

| Código | Descrição | h [mm] | h [inch] |
|---|---|---|---|
| L | Reta vertical | 180 | 7,09 |
| O | Dobrada 15° vertical | 180 | 7,09 |
| R | Dobrada 30° vertical | 180 | 7,09 |
| M | Reta horizontal | 180 | 7,09 |
| Y | Dobrada 15° horizontal | 180 | 7,09 |
| Q | Dobrada 30° horizontal | 180 | 7,09 |



# Composição do código

| BW0500TM | 1 | 2 | 3 | 4 | 5 | 6 7 8 | 9 | 10 11 | 12 13 | 14 15 | 16 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | |

## 1 Tipo de elemento

| | | | |
|---|---|---|---|
| **A** | Tandem | **B** | Elemento de fechamento |

## 2 Configuração

| | | | |
|---|---|---|---|
| **A** | Acionamento do lado da conexão A | **B** | Acionamento do lado da conexão B |

## 3 Tipo de rosca

| | |
|---|---|
| **F** | Fêmea |

## 4 Rosqueamento das conexões A e B

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **A** | 3/8'' GÁS ISO 1179 | **C** | M18x1,5 ISO 9974 | **W** | M18x1,5 ISO 6149 | **E** | 3/4'' - 16 SAE ISO 11926 |

## 5 Acionamento

| | | | | | |
|---|---|---|---|---|---|
| **L** | Padrão kit porta-alavanca | **A** | Sem porta-alavanca apêndice padrão | **T** | Predisposição acionamento com cabo |

## 6 7 8 Circuitos

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **001** | Circuito | **003** | Circuito | **004** | Circuito | **005** | Circuito |

## 9 Opções lançadeira

| | | | |
|---|---|---|---|
| **A** | Lançadeira padrão | **B** | Lançadeira niquelada |

## 10 11 Posicionador

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **0A** | Posição neutra em 0 | **0B** | Posição neutra em 0, detent in 1 | **0C** | Posição neutra em 0, detent in 2 | **0D** | Detent in 0, 1, 2 |

## 12 13 Tipo de válvula da conexão A

| | | | | | |
|---|---|---|---|---|---|
| **NN** | Nenhuma | **VB** | Válvula de bloqueio pilotada | **OV** | Over-center |
| **VL** | Válvula limitadora de pressão | **FC** | Regulador de fluxo unidirecional | **PC** | Válvula limitadora de pressão e de anticavitação interna |

## 14 15 Pressão de calibração VL/OV/PC conexão A

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NN** | Nenhuma | **09** | 90 bar | **16** | 160 bar | **23** | 230 bar |
| **03** | 30 bar | **10** | 100 bar | **17** | 170 bar | **24** | 240 bar |
| **04** | 40 bar | **11** | 110 bar | **18** | 180 bar | **25** | 250 bar |
| **05** | 50 bar | **12** | 120 bar | **19** | 190 bar | **26** | 260 bar |
| **06** | 60 bar | **13** | 130 bar | **20** | 200 bar | **27** | 270 bar |
| **07** | 70 bar | **14** | 140 bar | **21** | 210 bar | | |
| **08** | 80 bar | **15** | 150 bar | **22** | 220 bar | | |

## 16 17 Tipo di valvola bocca B

| | | | | | |
|---|---|---|---|---|---|
| **NN** | Nenhuma | **VB** | Válvula de bloqueio pilotada | **OV** | Over-center |
| **VL** | Válvula limitadora de pressão | **FC** | Regulador de fluxo unidirecional | **PC** | Válvula limitadora de pressão e de anticavitação interna |

# Composição do código

**BW0500TM**

17 | 18 19 | 20 | 21 | 22 | 23

18 19

Pressão de calibração VL/OV/PC conexão B

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NN** | Nenhuma | **09** | 90 bar | **16** | 160 bar | **23** | 230 bar |
| **03** | 30 bar | **10** | 100 bar | **17** | 170 bar | **24** | 240 bar |
| **04** | 40 bar | **11** | 110 bar | **18** | 180 bar | **25** | 250 bar |
| **05** | 50 bar | **12** | 120 bar | **19** | 190 bar | **26** | 260 bar |
| **06** | 60 bar | **13** | 130 bar | **20** | 200 bar | **27** | 270 bar |
| **07** | 70 bar | **14** | 140 bar | **21** | 210 bar | | |
| **08** | 80 bar | **15** | 150 bar | **22** | 220 bar | | |

20

Opções de alavanca

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **N** | Nenhuma | **B** | h 130 mm/ 5,12 inch | **F** | h 300 mm/11,81 inch | **R** | Dobrada 30° vertical |
| **S** | Sem alavanca | **C** | h 180 mm/ 7,09 inch | **...** | Alavanca ergonômica | **M** | Reta horizontal |
| **...** | Botão padrão | **D** | h 210 mm/8,27 inch | **L** | Reta vertical | **Y** | Dobrada 15° horizontal |
| **A** | h 110 mm/ 4,33 inch | **E** | h 250 mm/9,84 inch | **O** | Dobrada 15° vertical | **Q** | Dobrada 30° horizontal |

21

Posição porta-alavanca

| | | | | | |
|---|---|---|---|---|---|
| **A** | Reta | **C** | Girada 180° | **N** | Nenhuma |

22

Tensão e conector

| | |
|---|---|
| **N** | Nenhum |

23

Tratamento externo

| | | | |
|---|---|---|---|
| **N** | Nenhum | **Z** | Galvanização |