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# Small Ball Valve

## BV-10



### Features :

- One-Piece body design.
- Investment casting.
- Blow-out proof stem.
- Reduced bore.
- BSPT or NPT standard.
- Locking device.

### Application :

- General application.
- Water & gas.
- Compressed air.

### 1-Pc Body Ball Valve, Reduced Bore, Threaded End

Size	: 1/4" - 2" (DN8 - DN50)
Body	: CF8M / CF8 / WCB
Ball & Stem	: SS 316 / SS 304
Seat	: PTFE
End Standard	: Threaded End
Pressure Rating	: 1000 psi
Temperature Range	: 0 - 180 C

## BV-20



### Features :

- Two-Piece body design.
- Investment casting.
- Blow-out proof stem.
- Full bore.
- BSPT or NPT standard.
- Locking device

### Application :

- General application.
- Water, oil and gas.
- Light chemical

### 2-Pcs Body Ball Valve, Full Bore, Threaded End

Size	: 1/4" - 3" (DN8 - DN80)
Body	: CF8M / CF8 / WCB
Ball & Stem	: SS 316 / SS 304
Seat	: PTFE
End Standard	: Threaded End
Pressure Rating	: 1000 psi
Temperature Range	: 0 - 180 C

## BV-30, BV-301, BV-302



### Features :

- Three-Piece body design.
- Investment casting.
- Blow-out proof stem.
- Full bore.
- Various end standard.
- Locking device.

### Application :

- General application.
- Water, oil, gas and steam.
- Light chemical.

### 3-Pcs Body Ball Valve, Full Bore, Threaded, Socket, Butt Weld

Size	: 1/4" - 4" (DN8 - DN100)
Body	: CF8M / CF8 / WCB
Ball & Stem	: SS 316 / SS 304
Seat	: PTFE
End Standard	: Threaded, Socket, Butt Weld
Pressure Rating	: 1000 psi
Temperature Range	: 0 - 180 C

## BV-20D



### Features :

- Two-Piece body design.
- Investment casting.
- Blow-out proof stem.
- Full bore.
- BSPT or NPT standard.
- ISO5211 direct mounting.

### Application :

- General application.
- Water, oil and gas.
- Light chemical.

### 2-Pcs Body Ball Valve, Full Bore, Threaded End, Direct Mounting

Size	: 1/4" - 3" (DN8 - DN80)
Body	: CF8M / CF8 / WCB
Ball & Stem	: SS 316 / SS 304
Seat	: TFM-1600
End Standard	: Threaded End
Pressure Rating	: 1000 psi
Temperature Range	: 0 - 200 C

## BV-30D



### Features :

- Three-Piece body design.
- Investment casting.
- Blow-out proof stem.
- Full bore.
- BSPT or NPT standard.
- ISO5211 direct mounting.

### Application :

- General application.
- Water, oil, gas and steam.
- Light chemical.

### 3-Pcs Body Ball Valve, Full Bore, Threaded End, Direct Mounting

Size	: 1/4" - 4" (DN8 - DN100)
Body	: CF8M / CF8 / WCB
Ball & Stem	: SS 316 / SS 304
Seat	: TFM-1600
End Standard	: Threaded End
Pressure Rating	: 1000 psi
Temperature Range	: 0 - 200 C

## BV-50DT / BV-50DL



### Features :

- Three-way ball valve.
- Investment casting.
- Type T-port or L-port.
- Standard bore.
- BSPT or NPT standard.
- ISO5211 direct mounting.

### Application :

- General application.
- Water, oil and gas.
- Light chemical.

### 3-way Ball Valve, Full Bore, Threaded End, Direct Mounting

Size	: 1/2" - 2" (DN15 - DN50)
Body	: CF8M / CF8 / WCB
Ball & Stem	: SS 316 / SS 304
Seat	: TFM-1600
End Standard	: Threaded End
Pressure Rating	: 1000 psi
Temperature Range	: 0 - 200 C

## BV-40FD150/300



### Features :

- Two-piece split body design.
- Investment casting.
- Blow-out proof stem.
- Floating ball.
- Full bore and RF flanged end.
- ISO5211 direct mounting.

### Application :

- General application.
- Water, oil, gas and steam.
- Light chemical.

### 2-Pcs Flanged Ball Valve, Full Bore, ANSI 150# / 300# RF End

Size	: 1/2" - 8" (DN15 - DN200)
Body	: CF8M / CF8 / WCB
Ball & Stem	: SS 316 / SS 304
Seat	: TFM-1600
End Standard	: 150# / 300# RF Flanged
Pressure Rating	: 150 psi / 300 psi
Temperature Range	: 0 - 200 C

## BV-50FD150/300(T/L)



### Features :

- Three-way ball valve.
- Investment casting.
- Type T-port or type L-port.
- Floating ball.
- Full bore and RF flanged end.
- ISO5211 direct mounting.

### Application :

- General application.
- Water, oil, gas and steam.
- Light chemical.

### 3-way Flanged Ball Valve, Full Bore, ANSI 150# / 300# RF End

Size	: 1/2" - 4" (DN15 - DN100)
Body	: CF8M / CF8 / WCB
Ball & Stem	: SS 316 / SS 304
Seat	: TFM-1600
End Standard	: 150# / 300# RF Flanged
Pressure Rating	: 150 psi / 300 psi
Temperature Range	: 0 - 200 C

## BV-40FD10K/20K



### Features :

- Two-piece split body design.
- Investment casting.
- Blow-out proof stem.
- Floating ball.
- Full bore and RF flanged end.
- ISO5211 direct mounting.

### Application :

- General application.
- Water, oil, gas and steam.
- Light chemical.

### 2-Pcs Flanged Ball Valve, Full Bore, JIS 10K / 20K RF End

Size	: 1/2" - 8" (DN15 - DN200)
Body	: SCS14 / SCS13 / SCPH2
Ball & Stem	: SS 316 / SS 304
Seat	: TFM-1600
End Standard	: JIS 10K / 20K RF Flanged
Pressure Rating	: 10 bar / 20 bar
Temperature Range	: 0 - 200 C

## BV-50FD10K/20K(T/L)



### Features :

- Three-way ball valve.
- Investment casting.
- Type T or type L.
- Floating ball.
- Full bore and RF flanged end.
- ISO5211 direct mounting.

### Application :

- General application.
- Water, oil, gas and steam.
- Light chemical.

### 3-way Flanged Ball Valve, Full Bore, JIS 10K / 20K RF End

Size	: 1/2" - 4" (DN15 - DN100)
Body	: SCS14 / SCS13 / SCPH2
Ball & Stem	: SS 316 / SS 304
Seat	: TFM-1600
End Standard	: JIS 10K / 20K RF Flanged
Pressure Rating	: 10 bar / 20 bar
Temperature Range	: 0 - 200 C

## BV-40FDPN16/40



### Features :

- Two-piece split body design.
- Investment casting.
- Blow-out proof stem.
- Floating ball.
- Full bore and RF flanged end.
- ISO5211 direct mounting.

### Application :

- General application.
- Water, oil, gas and steam.
- Light chemical.

### 2-Pcs Flanged Ball Valve, Full Bore, DIN PN16 / PN40 RF End

Size	: 1/2" - 8" (DN15 - DN200)
Body	: 1.4408 / 1.4308 / 1.0619
Ball & Stem	: SS 316 / SS 304
Seat	: TFM-1600
End Standard	: PN16 / PN40 RF Flanged
Pressure Rating	: 10 bar / 40 bar
Temperature Range	: 0 - 200 C

## BV-50FDPN16/40



### Features :

- Three-way ball valve.
- Investment casting.
- Type T or type L.
- Floating ball.
- Full bore and RF flanged end.
- ISO5211 direct mounting.

### Application :

- General application.
- Water, oil, gas and steam.
- Light chemical.

### 3-way Flanged Ball Valve, Full Bore, DIN PN16 / PN40 RF End

Size	: 1/2" - 4" (DN15 - DN100)
Body	: 1.4408 / 1.4308 / 1.0619
Ball & Stem	: SS 316 / SS 304
Seat	: TFM-1600
End Standard	: PN16 / PN40 RF Flanged
Pressure Rating	: 10 bar / 40 bar
Temperature Range	: 0 - 200 C

# Gate, Globe and Check Valve

## GA-150# / GA-300# / GA-600#



### Features :

- Bolted bonnet.
- Rising stem.
- Outside screw & yoke.
- Integral or renewable seat.
- Casting type.
- RF flanged or butt weld.

### Application :

- General application.
- Water, oil, gas and steam.
- Light chemical.

### Gate Valve, OS & Y, ANSI 150# / 300# / 600# RF End

Size	: 1/2" - 24" (DN15 - DN600)
Body	: CF8M / CF8 / WCB
Disc	: SS316 / SS304 / 13Cr.
Trim	: SS316 / SS304 / 13Cr.
End Standard	: 150# / 300# / 600# RF Flanged
Pressure Rating	: 150 psi / 300 psi / 600 psi
Temperature Range	: 0 - 200 C / 0 - 427 C

## GL-150# / GL-300# / GL-600#



### Features :

- Bolted bonnet.
- Rising stem & handwheel.
- Outside screw & yoke.
- Solid wedge.
- Casting type.
- RF flanged or butt weld.

### Application :

- General application.
- Water, oil, gas and steam.
- Light chemical.

### Globe Valve, OS & Y, ANSI 150# / 300# / 600# RF End

Size	: 1/2" - 16" (DN15 - DN400)
Body	: CF8M / CF8 / WCB
Disc	: SS316 / SS304 / 13Cr.
Trim	: SS316 / SS304 / 13Cr.
End Standard	: 150# / 300# / 600# RF Flanged
Pressure Rating	: 150 psi / 300 psi / 600 psi
Temperature Range	: 0 - 200 C / 0 - 427 C

## SC-150# / SC-300# / SC-600#



### Features :

- Bolted cover.
- Swing type.
- Horizontal or vertical line.
- Full port.
- Casting type.
- RF flanged or butt weld.

### Application :

- General application.
- Water, oil, gas and steam.
- Light chemical.

### Swing Check Valve, ANSI 150# / 300# / 600# RF End

Size	: 1/2" - 24" (DN15 - DN600)
Body	: CF8M / CF8 / WCB
Disc	: SS316 / SS304 / 13Cr.
Trim	: SS316 / SS304 / 13Cr.
End Standard	: 150# / 300# / 600# RF Flanged
Pressure Rating	: 150 psi / 300 psi / 600 psi
Temperature Range	: 0 - 200 C / 0 - 427 C

## FGA-800# / FGA-1500#



### Features :

- Bolted bonnet.
- Rising stem.
- Outside screw & yoke.
- Solid wedge.
- Forging type.
- Threaded or socket weld.

### Application :

- General application.
- Water, oil, gas and steam.
- Light chemical.

### Gate Valve, OS & Y, ANSI 800# / 1500#, Threaded or Socket Weld

Size	: 1/2" - 2" (DN15 - DN50)
Body	: F316 / F304 / A105
Disc	: SS316 / SS304 / 13Cr.
Trim	: SS316 / SS304 / 13Cr.
End Standard	: 800# / 1500# FNPT or socket weld
Pressure Rating	: 800 psi / 1500 psi
Temperature Range	: 0 - 200 C / 0 - 427 C

## FGL-800# / FGL-1500#



### Features :

- Bolted bonnet.
- Rising stem & handwheel.
- Outside screw & yoke.
- Solid wedge.
- Forging type.
- Threaded or socket weld.

### Application :

- General application.
- Water, oil, gas and steam.
- Light chemical.

### Globe Valve, OS & Y, ANSI 800# / 1500#, Threaded or Socket Weld

Size	: 1/2" - 2" (DN15 - DN50)
Body	: F316 / F304 / A105
Disc	: SS316 / SS304 / 13Cr.
Trim	: SS316 / SS304 / 13Cr.
End Standard	: 800# / 1500# FNPT or socket weld
Pressure Rating	: 800 psi / 1500 psi
Temperature Range	: 0 - 200 C / 0 - 427 C

## FSC-800# / FSC-1500#



### Features :

- Bolted cover.
- Swing type.
- Horizontal or vertical line.
- Standard port.
- Forging type.
- Threaded or socket weld.

### Application :

- General application.
- Water, oil, gas and steam.
- Light chemical.

### Check Valve, ANSI 800# / 1500#, Threaded or Socket Weld

Size	: 1/2" - 2" (DN15 - DN50)
Body	: F316 / F304 / A105
Disc	: SS316 / SS304 / 13Cr.
Trim	: SS316 / SS304 / 13Cr.
End Standard	: 800# / 1500# FNPT or socket weld
Pressure Rating	: 800 psi / 1500 psi
Temperature Range	: 0 - 200 C / 0 - 427 C

## BFV-700-L



### Features :

- Light weight & compact design.
- Excellent flow characteristics.
- No gasket required.
- Tight shut-off for liquid and gas.
- Seat replaceable.
- Easy upgrade for automation.

### Application :

- Sea water & fresh water.
- Powder & cement.
- Compressed air.

### Rubber Seat Butterfly Valve, Wafer Type, Lever Handle

Size	: 1-1/2" - 12" (DN40 - DN300)
Body	: GG-25 / GGG50 / FC200 / A395
Disc & Stem	: CF8 / CF8M / ALBC2 & SS410
Seat	: EPDM / NBR / Viton
End Standard	: Wafer 5/10K, 150#, PN10/PN16
Pressure Rating	: 6/10/16/25 bar
Temperature Range	: 0 - 130 C

## BFV-700-G



### Features :

- Light weight & compact design.
- Excellent flow characteristics.
- No gasket required.
- Tight shut-off for liquid and gas.
- Seat replaceable.
- Easy upgrade for automation.

### Application :

- Sea water & fresh water.
- Powder & cement.
- Compressed air.

### Rubber Seat Butterfly Valve, Wafer Type, Gear Operator

Size	: 1-1/2" - 24" (DN40 - DN600)
Body	: GG-25 / GGG50 / FC200 / A395
Disc & Stem	: CF8 / CF8M / ALBC2 & SS410
Seat	: EPDM / NBR / Viton
End Standard	: Wafer 5/10K, 150#, PN10/PN16
Pressure Rating	: 6/10/16/25 bar
Temperature Range	: 0 - 130 C

## BFV-400-L



### Features :

- Light weight & compact design.
- Two-piece body design.
- PTFE Seat with EPDM back up.
- Smooth disc from CF8M.
- Seat replaceable.
- Easy upgrade for automation.

### Application :

- Chemical systems.
- Food Processing systems.
- Pulp and Paper systems.

### Teflon Lining Butterfly Valve, CF8M Disc, PTFE Seat, Lever Handle

Size	: 2" - 12" (DN50 - DN300)
Body	: GGG50 / CF8 / CF8M
Disc & Stem	: CF8M / SS316
Seat	: PTFE + EPDM
End Standard	: Wafer 5/10K, 150#, PN10/PN16
Pressure Rating	: 6/10/16/25 bar
Temperature Range	: 0 - 150 C

## BFV-400-G



### Features :

- Light weight & compact design.
- Two-piece body design.
- PTFE Seat with EPDM back up.
- Smooth disc from CF8M.
- Seat replaceable.
- Easy upgrade for automation.

### Application :

- Chemical systems.
- Food Processing systems.
- Pulp and Paper systems.

### Teflon Lining Butterfly Valve, CF8M Disc, PTFE Seat, Gear Operated

Size	: 2" - 16" (DN50 - DN400)
Body	: GGG50 / CF8 / CF8M
Disc & Stem	: CF8M / SS316
Seat	: PTFE + EPDM
End Standard	: Wafer 5/10K, 150#, PN10/PN16
Pressure Rating	: 6/10/16/25 bar
Temperature Range	: 0 - 150 C

## BFV-450-L



### Features :

- Light weight & compact design.
- Two-piece body design.
- PTFE Seat with 3mm thickness.
- Smooth disc from CF8M + PTFE.
- Seat replaceable.
- Easy upgrade for automation.

### Application :

- Chemical systems.
- Corrosive fluid systems.
- Pulp and Paper systems.

### Teflon Lining Butterfly Valve, PTFE Disc & Seat, Lever Handle

Size	: 2" - 12" (DN50 - DN300)
Body	: GGG50 / CF8 / CF8M
Disc & Stem	: PTFE / SS316
Seat	: PTFE
End Standard	: Wafer 10K, 150#, PN10/PN16
Pressure Rating	: 6/10/16/25 bar
Temperature Range	: 0 - 150 C

## BFV-450-G



### Features :

- Light weight & compact design.
- Two-piece body design.
- PTFE Seat with 3mm thickness.
- Smooth disc from CF8M + PTFE.
- Seat replaceable.
- Easy upgrade for automation.

### Application :

- Chemical systems.
- Corrosive fluid systems.
- Pulp and Paper systems.

### Teflon Lining Butterfly Valve, PTFE Disc & Seat, Gear Operated

Size	: 2" - 16" (DN50 - DN400)
Body	: GGG50 / CF8 / CF8M
Disc & Stem	: PTFE / SS316
Seat	: PTFE
End Standard	: Wafer 10K, 150#, PN10/PN16
Pressure Rating	: 6/10/16/25 bar
Temperature Range	: 0 - 150 C

# ANSI and JIS Standard Valve

## GA-150# / GA-10K



**Features :**

- Bolted bonnet.
- Rising stem.
- Outside screw & yoke.
- Integral seat.
- Casting type.
- RF flanged end.

**Application :**

- General application.
- Hot & Cold water systems.
- HVAC Building area.

**Gate Valve, OS & Y, ANSI 125# / JIS 10K RF Flanged End**

Size	: 2" - 12" (DN50 - DN300)
Body	: A126-Gr. B / FC200
Disc	: 13% Cr.
Seat	: 13% Cr. / Bronze
End Standard	: 150# / JIS 10K RF Flanged
Pressure Rating	: 150 psi / 10 bar
Temperature Range	: 0 - 427 C

## GL-150# / GL-10K



**Features :**

- Bolted bonnet.
- Rising stem and handwheel.
- Outside screw & yoke.
- Integral seat.
- Casting type.
- RF flanged end.

**Application :**

- General application.
- Hot & Cold water systems.
- HVAC Building area.

**Globe Valve, OS & Y, ANSI 125# / JIS 10K RF Flanged End**

Size	: 2" - 12" (DN50 - DN300)
Body	: A126-Gr. B / FC200
Disc & Stem	: 13% Cr.
Seat	: 13% Cr. / Bronze
End Standard	: 150# / JIS 10K RF Flanged
Pressure Rating	: 150 psi / 10 bar
Temperature Range	: 0 - 427 C

## SC-150# / SC-10K



**Features :**

- Bolted cover.
- Swing type.
- Horizontal or vertical line.
- Full port.
- Casting type.
- RF flanged end.

**Application :**

- General application.
- Hot & Cold water systems.
- HVAC Building area.

**Swing Check Valve, ANSI 125# / JIS 10K RF Flanged End**

Size	: 2" - 12" (DN50 - DN300)
Body	: A126-Gr. B / FC200
Disc	: 13% Cr.
Seat	: 13% Cr. / Bronze
End Standard	: 150# / JIS 10K RF Flanged
Pressure Rating	: 150 psi / 10 bar
Temperature Range	: 0 - 427 C

## YS-150# / YS-10K



**Features :**

- Compact structure.
- Bolted cap.
- Screen made for stainless steel.
- Standard mesh
- Drain plug in cap.
- High tightness.

**Application :**

- General application.
- Hot & Cold water systems.
- HVAC Building area.

**Y-Strainer, ANSI 125# / JIS 10K RF Flanged End**

Size	: 2" - 12" (DN50 - DN300)
Body	: A126-Gr. B / FC200
Screen	: SS304 / SS316
Seat	: 13% Cr. / Bronze
End Standard	: 150# / JIS 10K RF Flanged
Pressure Rating	: 150 psi / 10 bar
Temperature Range	: 0 - 427 C

## WCV-150# / WCV-10K



**Features :**

- Compact structure.
- Wafer design.
- Dual Plate design.
- Trim material for stainless steel.
- High tightness.
- Other material are available.

**Application :**

- General application.
- Hot & Cold water systems.
- HVAC Building area.

**Dual Plate Check Valve, ANSI 125# / JIS 10K, Wafer Connection**

Size	: 2" - 24" (DN50 - DN600)
Body	: A126-Gr. B / FC200
Plate & Spring	: SS304 / SS316
Seat	: 13% Cr.
End Standard	: Wafer ANSI 150# / JIS 10K
Pressure Rating	: 150 psi / 10 bar
Temperature Range	: 0 - 427 C

## KGV-150# / KGV-10K



**Features :**

- Compact design.
- Rising stem.
- Uni-directional.
- Wafer type.
- Metal seat and soft seat.
- Zero leakage.

**Application :**

- Pulp & Paper.
- Wastewater treatment plant.
- Power plant and mining.

**Knife Gate Valve, ANSI 125# / JIS 10K RF Flanged**

Size	: 2" - 24" (DN40 - DN600)
Body	: A126-Gr. B / FC200
Disc & Stem	: SS304 / SS316
Seat	: Metal seat / soft seat
End Standard	: Wafer ANSI 150# / JIS 10K
Pressure Rating	: 150 psi / 10 bar
Temperature Range	: 0 - 180 C

## GL-B-PN16 / GL-B-PN25 / GL-B-PN40



### Features :

- Compact structure.
- Non rising stem.
- Bellow seal design.
- Trim material for stainless steel.
- Stem with hardened thread.
- High tightness.

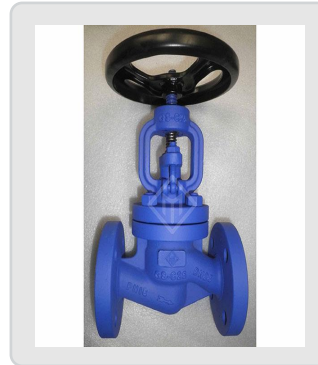
### Application :

- Steam & Condensate systems.
- Hot & Cold water systems.
- Thermo oil systems.

### Bellow Seal Globe Valve, DIN Flanged, Handwheel Operated

Size	: 1/2" - 16" (DN15 - DN400)
Body	: GSC-25N
Disc & Stem	: SS410
Seat	: SS410
End Standard	: DIN PN16/PN25/PN40 RF
Pressure Rating	: 16 bar / 25 bar / 40 bar
Temperature Range	: 0 - 400 C

## GL-PN16 / GL-PN25 / GL-PN40



### Features :

- Compact structure.
- Rising stem.
- Gland packing design.
- Trim material for stainless steel.
- Stem with hardened thread.
- High tightness.

### Application :

- Steam & Condensate systems.
- Hot & Cold water systems.
- Heat engineering systems.

### Globe Valve, Gland Packing, DIN Flanged, Handwheel Operated

Size	: 1/2" - 8" (DN15 - DN200)
Body	: GG-25 / GGG50 / GSC-25N
Disc & Stem	: SS410
Seat	: SS410
End Standard	: DIN PN16/PN25/PN40 RF
Pressure Rating	: 16 bar / 25 bar / 40 bar
Temperature Range	: 0 - 350 C

## LCV-PN16 / LCV-PN40



### Features :

- Compact structure.
- Lift check type.
- Spring loaded valve disc.
- Trim material for stainless steel.
- Metallic sealing.
- High tightness.

### Application :

- Steam & Condensate systems.
- Hot & Cold water systems.
- Thermo oil systems.

### Lift Check Valve, DIN Flanged

Size	: 1/2" - 12" (DN15 - DN300)
Body	: GG-25 / GGG50 / GSC-25N
Disc	: SS410
Seat	: SS410
End Standard	: DIN PN16/PN25/PN40 RF
Pressure Rating	: 16 bar / 25 bar / 40 bar
Temperature Range	: 0 - 350 C

## YS-PN16 / YS-PN40



### Features :

- Compact structure.
- Bolted cap.
- Screen made for stainless steel.
- Standard mesh
- Drain plug in cap.
- High tightness.

### Application :

- Steam & Condensate systems.
- Hot & Cold water systems.
- Heat engineering systems.

### Y-Strainer, DIN Flanged

Size	: 1/2" - 12" (DN15 - DN300)
Body	: GG-25 / GGG50 / GSC-25N
Screen	: SS304 / SS316
Seat	: SS410
End Standard	: DIN PN16/PN25/PN40 RF
Pressure Rating	: 16 bar / 25 bar / 40 bar
Temperature Range	: 0 - 350 C

## KGV-PN10 / KGV-PN16



### Features :

- Compact design.
- Rising stem.
- Uni-directional.
- Wafer type.
- Metal seat and soft seat.
- Zero leakage.

### Application :

- Pulp & Paper.
- Wastewater treatment plant.
- Power plant and mining.

### Dual Plate Check Valve, DIN Flanged, Wafer Connection

Size	: 2" - 24" (DN50 - DN600)
Body	: GG-25 / GGG50 / GSC-25N
Plate & Spring	: SS304 / SS316
Seat	: SS410
End Standard	: Wafer DIN PN16/PN25/PN40
Pressure Rating	: 16 bar / 25 bar / 40 bar

## GA-PN10 / GA-PN16



### Features :

- Compact design.
- Non rising stem.
- Wedge covered with EPDM.
- Body internally coating epoxy.
- End Standard F4 and BS5163.
- Zero leakage.

### Application :

- General industries.
- Wastewater treatment plant.
- Water Distribution systems.

### Resilient Seat Gate Valve, DIN Flanged, Handwheel Operated

Size	: 1-1/2" - 24" (DN40 - DN600)
Body	: GGG50 epoxy coating
Disc	: Ductile Iron + EPDM
Stem	: SS410
End Standard	: DIN PN10/PN16 RF
Pressure Rating	: 10 bar / 16 bar

# Pneumatic Actuator Valve

## BV-20D-PD / BV-20D-PS



### Features :

- Two-Piece body design.
- ISO5211 direct mounting.
- Full bore.
- BSPT or NPT standard.
- Double acting / Single acting.
- Accessories available.

### Application :

- General application.
- Food and beverages systems.
- Water treatment systems.

### Pneumatic 2-pcs Ball Valve, Threaded End, Double / Single Acting

Size	: 1/4" - 3" (DN8 - DN80)
Body	: CF8M / CF8 / WCB
Ball & Stem	: SS316 / SS304
Seat	: TFM-1600 / PTFE
End Standard	: Threaded End
Pressure Rating	: 1000 psi
Temperature Range	: 0 -200 C

## BV-30D-PD / BV-30D-PS



### Features :

- Three-Piece body design.
- ISO5211 direct mounting.
- Full bore.
- BSPT or NPT standard.
- Double acting / Single acting.
- Accessories available.

### Application :

- General application.
- Food and beverages systems.
- Water treatment systems.

### Pneumatic 3-pcs Ball Valve, Threaded End, Double / Single Acting

Size	: 1/4" - 4" (DN8 - DN100)
Body	: CF8M / CF8 / WCB
Ball & Stem	: SS316 / SS304
Seat	: TFM-1600 / PTFE
End Standard	: Threaded End
Pressure Rating	: 1000 psi
Temperature Range	: 0 -200 C

## BV-20FD-PD / BV-40FD-PS



### Features :

- Two-piece split body design.
- ISO5211 direct mounting.
- Full bore and RF flanged end.
- Floating ball.
- Double acting / Single acting.
- Accessories available.

### Application :

- General application.
- Food and beverages systems.
- Water treatment systems.

### Pneumatic Ball Valve, RF Flanged End, Double / Single Acting

Size	: 1/2" - 8" (DN15 - DN200)
Body	: CF8M / CF8 / WCB
Ball & Stem	: SS316 / SS304
Seat	: TFM-1600 / PTFE
End Standard	: ANSI 150# / ANSI 300#
Pressure Rating	: 150 psi / 300 psi
Temperature Range	: 0 - 200 C

## BFV-700-PD / BF-700-PS



### Features :

- Light weight & compact design.
- Tight shut-off for liquid and gas.
- Seat replaceable.
- Various seat & disc material.
- Double acting / Single acting.
- Accessories available.

### Application :

- Hot & cold water systems.
- Powder & cement.
- Water treatment systems.

### Pneumatic Butterfly Valve, Wafer End, Double / Single Acting

Size	: 1-1/2" - 24" (DN40 - DN600)
Body	: GG-25 / GGG50 / GSC-25N
Disc & Stem	: CF8 / CF8M / ALBC2 & SS410
Seat	: EPDM / NBR / Viton
End Standard	: Wafer 10K, 150#, PN10/PN16
Pressure Rating	: 10 bar
Temperature Range	: 0 - 130 C

## Pneumatic Plastic Ball Valve



### Features :

- Light weight & compact design.
- UPVC, CPVC, PVDF, PP body.
- Double union type.
- Socket, threaded and flanged.
- Double acting / Single acting.
- Accessories available.

### Application :

- General application.
- Food and beverages systems.
- Water treatment systems.

### Pneumatic Plastic Ball Valve, Double / Single Acting

Size	: 1/2" - 4" (DN15 - DN100)
Body	: UPVC / CPVC / PVDF / PP
Disc & Stem	: UPVC / CPVC / PVDF / PP
Seat	: PTFE
End Standard	: Socket, threaded and flanged.
Pressure Rating	: 10 bar
Temperature Range	: 0 - 120 C

## Pneumatic Sanitary Butterfly Valve



### Features :

- Light weight & compact design.
- Various body, disc & seat material.
- Seat replaceable.
- Tri-Clamp and welded type.
- Double acting / Single acting.
- Accessories available.

### Application :

- Food and beverages systems.
- Pharmaceutical.
- Water treatment systems.

### Pneumatic Sanitary Butterfly Valve, Double / Single Acting

Size	: 1" - 8" (DN25 - DN200)
Body	: SS316 / SS304
Disc & Stem	: SS316 / SS304
Seat	: EPDM / Silicone
End Standard	: Tri-Clamp / Welded
Pressure Rating	: 10 bar
Temperature Range	: 0 - 120 C



## BV-20D-ITQ



### Features :

- Two-Piece body design.
- ISO5211 direct mounting.
- Full bore.
- BSPT or NPT standard.
- Electric actuator 220 VAC.
- Other voltage 110VAC, 24VDC.

### Application :

- General application.
- Food and beverages systems.
- Water treatment systems.

### Electric 2-pcs Ball Valve, Threaded End

Size	: 1/4" - 3" (DN8 - DN80)
Body	: CF8M / CF8 / WCB
Ball & Stem	: SS316 / SS304
Seat	: TFM-1600 / PTFE
End Standard	: Threaded End
Pressure Rating	: 1000 psi
Temperature Range	: 0 -200 C

## BV-30D-ITQ



### Features :

- Three-Piece body design.
- ISO5211 direct mounting.
- Full bore.
- BSPT or NPT standard.
- Electric actuator 220 VAC.
- Other voltage 110VAC, 24VDC.

### Application :

- General application.
- Food and beverages systems.
- Water treatment systems.

### Electric 3-pcs Ball Valve, Threaded End

Size	: 1/4" - 4" (DN8 - DN100)
Body	: CF8M / CF8 / WCB
Ball & Stem	: SS316 / SS304
Seat	: TFM-1600 / PTFE
End Standard	: Threaded End
Pressure Rating	: 1000 psi
Temperature Range	: 0 -200 C

## BV-20FD-ITQ



### Features :

- Two-piece split body design.
- ISO5211 direct mounting.
- Full bore and RF flanged end.
- Floating ball.
- Electric actuator 220 VAC.
- Other voltage 110VAC, 24VDC.

### Application :

- General application.
- Food and beverages systems.
- Water treatment systems.

### Electric Ball Valve, RF Flanged End

Size	: 1/2" - 8" (DN15 - DN200)
Body	: CF8M / CF8 / WCB
Ball & Stem	: SS316 / SS304
Seat	: TFM-1600 / PTFE
End Standard	: ANSI 150# / ANSI 300#
Pressure Rating	: 150 psi / 300 psi
Temperature Range	: 0 - 200 C

## BFV-700-ITQ



### Features :

- Light weight & compact design.
- Tight shut-off for liquid and gas.
- Seat replaceable.
- Various seat & disc material.
- Electric actuator 220 VAC.
- Other voltage 110VAC, 24VDC.

### Application :

- Hot & cold water systems.
- Powder & cement.
- Water treatment systems.

### Electric Butterfly Valve, Wafer End

Size	: 1-1/2" - 24" (DN40 - DN600)
Body	: GG-25 / GGG50 / GSC-25N
Disc & Stem	: CF8 / CF8M / ALBC2 & SS410
Seat	: EPDM / NBR / Viton
End Standard	: Wafer 10K, 150#, PN10/PN16
Pressure Rating	: 10 bar
Temperature Range	: 0 - 130 C

## Electric Plastic Ball Valve



### Features :

- Light weight & compact design.
- UPVC, CPVC, PVDF, PP body.
- Double union type.
- Socket, threaded and flanged.
- Electric actuator 220 VAC.
- Other voltage 110VAC, 24VDC.

### Application :

- General application.
- Chemical systems.
- Water treatment systems.

### Electric Plastic Ball Valve

Size	: 1/2" - 4" (DN15 - DN100)
Body	: UPVC / CPVC / PVDF / PP
Disc & Stem	: UPVC / CPVC / PVDF / PP
Seat	: PTFE
End Standard	: Socket, threaded and flanged.
Pressure Rating	: 10 bar
Temperature Range	: 0 - 50 C

## Electric Sanitary Butterfly Valve



### Features :

- Light weight & compact design.
- Various body, disc & seat material.
- Seat replaceable.
- Tri-Clamp and welded type.
- Electric actuator 220 VAC.
- Other voltage 110VAC, 24VDC.

### Application :

- Food and beverages systems.
- Pharmaceutical.
- Water treatment systems.

### Electric Sanitary Butterfly Valve

Size	: 1" - 8" (DN25 - DN200)
Body	: SS316 / SS304
Disc & Stem	: SS316 / SS304
Seat	: EPDM / Silicone
End Standard	: Tri-Clamp / Welded
Pressure Rating	: 10 bar
Temperature Range	: 0 - 120 C

# Actuator and Control Valve

## PD / PS Pneumatic Actuator



### Pneumatic Actuator, Rack and Pinion Type

- Rack & pinion design.
- Aluminium hard anodized finish.
- Namur interface
- ISO5211 direct mounting.
- Visual position indicator.
- Double acting / Single acting.
- Accessories on Solenoid Valve, Limit Switch and Positioners.

## IS/IC Scotch & Yoke Pneumatic Actuator



### Pneumatic Actuator, Scotch & Yoke Type

- Scotch & yoke design.
- Modular design.
- Namur standard interface.
- Double valve mounting pad.
- Weather-proof IP66 / IP67.
- Double acting / Single acting.
- Accessories on Solenoid Valve, Limit Switch and Positioners.

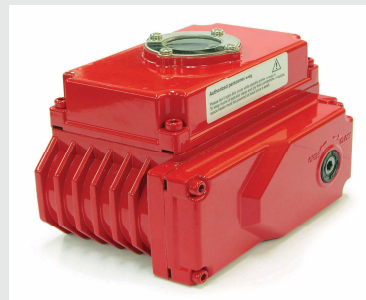
## ITQ Rotary Electric Actuator



### Heavy Duty Electric Actuator

- Rotary design.
- Powder coating finish.
- Weather-proof IP67 and explosion proof type.
- Manual de-clutchable gear as standard.
- Local control panel as optional.
- Voltage 1 phase 110 / 220 VAC and 3 phase 380 / 415 VAC.
- Modulating, profibus and modbus are available as optional.

## ITQ Electric Actuator



### Compact Electric Actuator

- Rotary design.
- Powder coating finish.
- Weather-proof IP66.
- ISO5211 direct mounting.
- Visual position indicator.
- Voltage available on 220 VAC, 110 VAC and 24 VDC.
- Modulating are available as optional.

## GL-C Globe Control Valve



### Globe Control Valve

- Top guided structure, single seat or double seat.
- Body material carbon steel or stainless steel.
- Plug and seat material stainless steel.
- Flow characteristics equal percentage or linear.
- Metal seat and soft seat.
- Accessories on Solenoid Valve, Limit Switch and Positioners.
- Available on electric actuator.

## ITM Multi-turn Electric Actuator



### Multi-turn Electric Actuator

- Multi-turn design.
- Powder coating finish.
- Weather-proof IP67 and explosion proof type.
- Manual de-clutchable gear as standard.
- Local control panel as optional.
- Voltage 1 phase 110 / 220 VAC and 3 phase 380 / 415 VAC.
- Modulating, profibus and modbus are available as optional.

### Air Filter Regulator



#### Air Filter Regulator

- Rugged aluminum die-cast housing.
- Optional stainless steel 304 or 316 housing.
- Stable setting pressure.
- High capacity with 5 micron filter.
- Self-relief function to balance output and setting pressure.
- High flow capacity.
- Available on BSPT and NPT.

### Namur Solenoid Valve



#### Namur Solenoid Valve

- 5 port pilot / no lubrication.
- Excellent durability.
- Suitable for operation of even large-sized actuators.
- Suitable for PLC control system in low power consumption.
- Direct NAMUR mounting type.
- Available on single coil and double coil.
- Voltage available on 220 VAC, 110 VAC and 24 VDC.

### Electro-Pneumatic Positioner



#### Electro-Pneumatic Positioner

- EPR for Rotary type, EPL for Linear type.
- Easy maintenance.
- Precise calibration with simple SPAN and ZERO adjustments.
- Simple conversion to direct acting or reverse acting.
- Rugged aluminum housing with corrosion-resistant coating.
- Flame-proof and Intrinsically safe enclosure.
- Optional position transmitter, 2 x SPDT limit switch and indicator.

### ITS Limit Switch Box



#### Limit Switch Box

- Rugged aluminum die-cast housing.
- Good recognizable dome indicator.
- Namur interface.
- Various switches and feedback options.
- Optional stainless steel housing.
- Weather-proof (LSB-100) and Explosion-proof (LSB-300).
- Available on Linear Limit Switch Box (LSB-200).

### ATEX Exd Namur Solenoid Valve



#### ATEX Exd Namur Solenoid Valve

- Rugged aluminum die-cast housing.
- ATEX Exd enclosure.
- Convertible from 5/2 way to 3/2 way.
- Rotatable valve head for optimal mounting.
- Direct NAMUR mounting or screw mounting.
- Available on single coil and double coil.
- Voltage available on 220 VAC, 110 VAC and 24 VDC.

### Smart Positioner



#### Smart Electro-Pneumatic Positioner

- SS2R for Rotary type, SS2L for Linear type.
- Easy and quick auto-calibration.
- Detecting RA (reverse acting) or DA (direct acting) automatically.
- Improved control of high-friction globe and ball valves.
- Providing error messages against performance failures.
- Optional position transmitter, 2 x SPDT limit switch.
- Optional explosion proof, HART and Profibus communication.

# Pressure gauges

FT PBX 100-150-E-9.02

**RÜEGER**

## All stainless steel construction PBX100, PBX150 (1.18)



These instruments are designed for use in food, beverage, pharmaceutical, cryogenics, chemical and petrochemical processing industries, and in conventional and nuclear power plants. They are built to resist the most severe operating conditions created by the ambient environment and the process medium. An Argonarc welded case/socket strengthen the whole construction. A leak tight fit is ensured if the instrument is filled with a dampening fluid to prevent damage due to vibration. The advantages of filling the case of the instrument with a dampening fluid are: reduced pointer fluctuation, reduced wear of rotating parts of the movement, avoidance of contamination to the internal parts by corrosive atmosphere gases, avoidance of condensation of the front window lens, ensuring the instruments are suitable for use on equipment with very high pulsation and severe vibration.

### Functional and constructive characteristics

**PBX100X..., PBX150X...** Fillable (ref. 1.18.2)

**Accuracy class:** 1 as per EN 837.1.  
**Ambient temperature:** -25...+65 °C.  
**Process fluid temperature:** -40...+150 °C.  
**Working pressure** (referred to the full scale value): max 90% for pulsating pressure; 100% for static pressure.  
**Over pressure limit:** 30% of full scale value.  
**Special over pressure:** 50% of full scale value, for pressure ranges ≤ 400 bar (max 1 hour).  
**Protection:** IP 67 as per IEC 529.  
**Socket material:** AISI 316L st.st.  
**Elastic element:** AISI 316L st. st. seamless tube.  
**Welding:** AISI 316 TIG.  
**Case:** AISI 304 st.st.  
**Ring:** AISI 304 st.st. , bayonet lock.  
**Window:** plexiglas, 4 mm thick.  
**Movement:** stainless steel with internal limit stops for minimum and maximum pressure (reinforced on DS 150).  
**Dial:** aluminium, white with black markings and "▼" symbol at the edges of the scale value.  
**Special dial:** ranges different from standard, custom artworks available on request.  
**Pointer:** aluminium, micrometric adjustable.  
**Gasket, blow out vent and filling plug:** EPDM  
**Note:** suitable for glycerine filling, other filling fluids available on request (see OPTIONS table).

**PBX100L..., PBX150L...** Liquid filled (ref. 1.18.3)

**Ambient temperature:** max +65 °C, (see DAMPING LIQUIDS table on page 4 for further information)  
**Process fluid temperature:** +65 °C.  
**Protection:** IP 67 as per IEC 529.  
**Damping liquids:** glycerine 98% (see DAMPING LIQUIDS table on page 4 for others filling fluid).  
**Other features:** as type PBX100-150X\_

## TH1 - *Stainless* bimetallic industrial thermometers

A proved mechanism and a sturdy housing, for reliability under severe conditions

FT TH1-E-9.02



### All stainless steel thermometer with °C , °F or double scales

#### ● Main features

- Bimetallic thermometer
- Heavy duty all-stainless steel construction
- External zero adjustment in option
- Complying with ASME standard B40.3 grade A (option AA) & class 1 acc. DIN 16203

#### ● Technical features

- Horizontal (THH), every angle executions (THI) and vertical (THV)
- Case diameters (in AISI 304) 3" (80 mm), 4" (100 mm), 5" (130 mm), 6" (150 mm)
- A large choice of temperature ranges
- Stem length: from 2" (60 mm) to 6' (2000 mm)
- Stem diameters: 6, 8, 9 mm

#### ● Applications

- General industry
- Foods
- Chemicals
- Petro-chemicals
- Heating & cooling systems
- Air conditioning systems
- Offshore
- Fossil-fuel
- Power stations
- Hydraulics
- Refrigeration

## Other Product Lines



API Gate, Globe, Check Valve.  
API Floating/Trunnion Ball Valve.  
Butterfly Valve.  
Plug Valve.  
Strainer.



Multi Turn Electric Actuator.  
Electric Actuator.  
Pneumatic Actuator.  
Limit Switch



Cast Iron Ball Valve, Gate, Globe, Check Valve and Strainers.  
DIN Standard Ball Valve, Bellow Seal Globe, Lift Check Valve and Strainers.  
Cast Iron/Ductile Iron/Stainless Steel Butterfly Valve  
Stainless Steel/WCB 1/2/3pc/Flanged ball valve, 150#/300#/600#  
Heavy Duty Segment Valve (For Sterilizer Condensate)



All Range Of Flow Meter  
Multi Point Sensor  
Industrial Control Valve  
2/2 Way Solenoid Valve, Angle Seat Valve  
Namur Solenoid Valve



Smart Valve Positioner.  
Electro-Pneumatic Positioner and Pneumatic-Pneumatic Positioner,  
Position Transmitter, Limit Switch box.  
I/P Converter and Solenoid Valve.



Resilient Seat Butterfly Valve.  
High Performance Butterfly Valve. (For Sterilizer Inlet, Outlet, Exhaust & Condensate)  
Wafer Check Valve.  
High Quality Flanged and Butt Weld Fitting.



1pc/2pc ball valve  
Floating Ball Valve Flanged  
Jacketed Ball Valve  
Piggable Ball Valve  
3 Way ball valve



Wafer Ball Valve  
2pc/3pc Ball Valve  
Floating Ball Valve & Trunnion Ball Valve  
Actuated Multi Way Ball Valve



High Performance Flanged Ball Valve 150/300#, PN16/40, JIS10K/20K  
High Performance 1pc/2pc/3pc 1000/2000WOG Ball Valve  
High Performance Multi Way Ball Valve  
High Performance Wafer Type Ball Valve  
All In API6D/TUV/Atex & Fire Safe Certified



Swiss Made High Quality Pressure & Temperature Gauge  
Swiss Made High Quality Pressure & Temperature Switch  
Swiss Made High Quality Pressure & Temperature Sensor  
Swiss Made High Quality Multi Point Temperature Sensor