

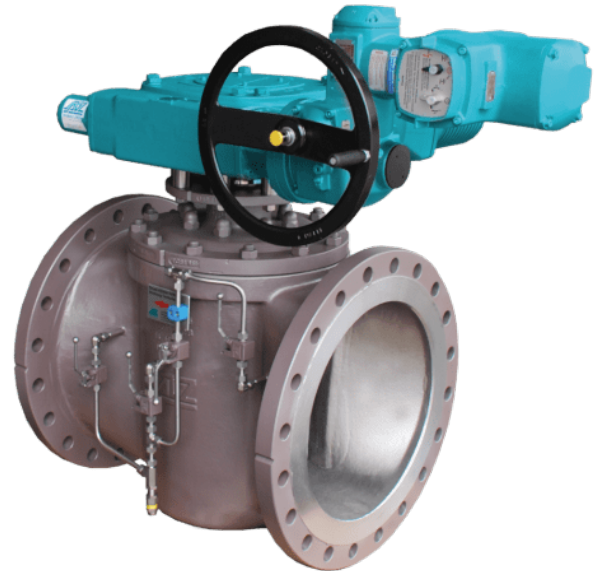


## DBI

### Plug Valve Double Block & Bleed Inspection

- “double block & bleed” with only one valve
- reliable and tight

DN 25 - 600 / PN 10-40  
NPS 1 - 24 / Class 150-300



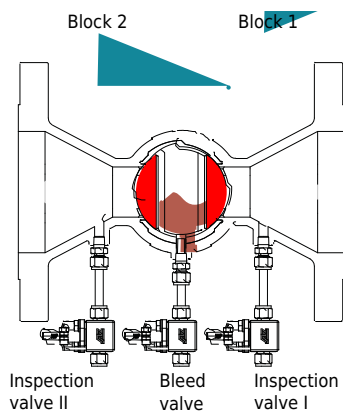
## Reliably Working for our Customers

### Industries

Storage • Refinery • Transport • Energy

### Media

Oil • Gas • Jet fuel • Diesel • Sulfuric acid • Chlorine oxide ClO<sub>2</sub>



## Functional Principle

AZ plug valves with two self-sealing elements Block 1 and Block 2

Closing of the plug valve seals off Block 1 and Block 2

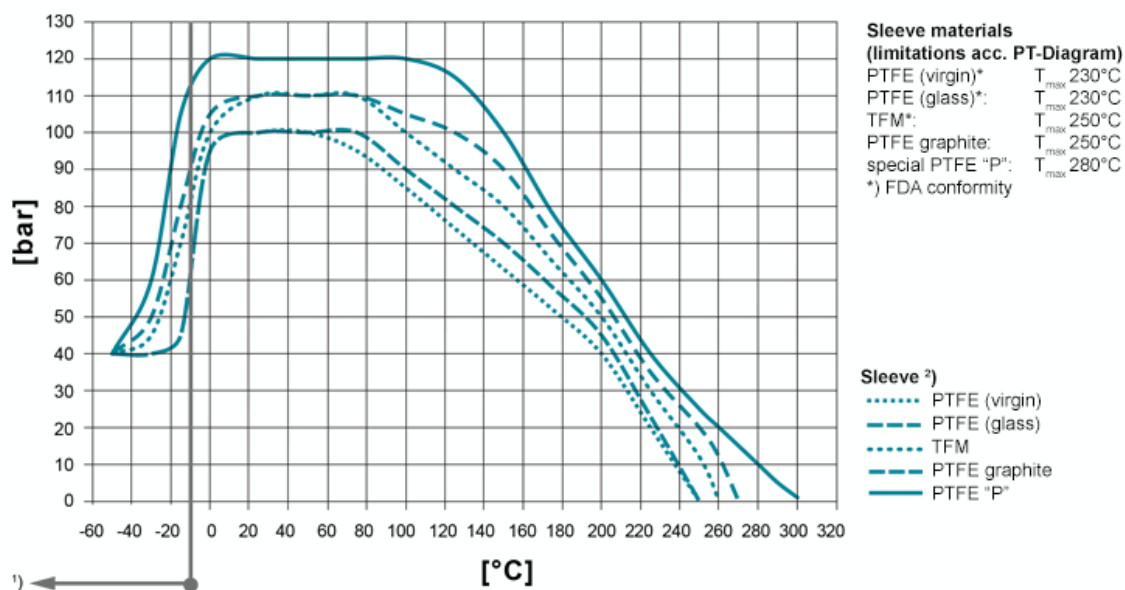
Open the bleed valve for tightness testing

Inspection and revision services using inspection valves I+II

## Design Features

### Design Characteristics

- PTFE-sleeved plug for large sealing surface - reliable and tight
- "double block & bleed" possible with only one valve
- suitable for critical service
- long durability - adjustable plug
- outlet positions customized
- cost saving compared to 2 valve system
- alternative to traditional "lift and turn" plug valves
- Firesafe acc. to API 607 / ISO 10497 (only externally)
- TA - Luft approval



**Operating temperatures < -30°C and > 220 °C have to be checked and approved by AZ according to the operating conditions.** Besides the P/T value of the sleeve the limitations of the valve bodies also have to be considered. Please refer to the EN 12516-1 resp. ASME B16.34 in order to choose a proper pressure rating (PN/class). The shown values refer to austenitic stainless steel 1.4408 (A351 Gr. CF8M). 1) For operating temperatures below -10°C low temperature / austenitic steels are required. 2) Sleeve: There are different sleeve materials / compounds available.

## Materials

### Standard body materials

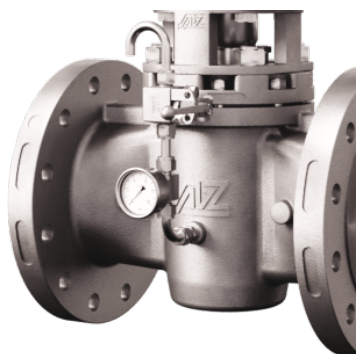
- Carbon Steel 1.0619, ASTM A216 WCB
- Stainless Steel 1.4408, ASTM A351 CF8M
- Stainless Steel 1.4308, ASTM A351 CF8
- Unalloyed stainless steel casting (low Temp.) 1.1138, LCC/LCB/A352
- Stainless Steel 1.4408, ASTM A351 CF8M
- Stainless Steel 1.4308, ASTM A351 CF8

### Standard plug materials

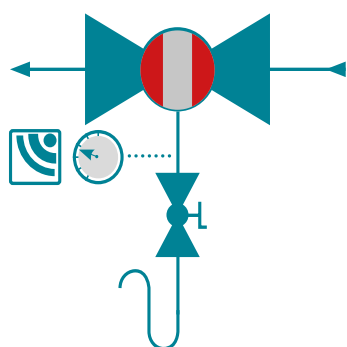
### Special materials

- Alloy
- Monel
- Nickel
- Zirconium
- Titan
- Tantal
- other materials on request

## Product Range



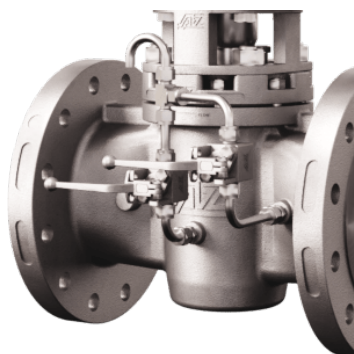
**DBI-B**



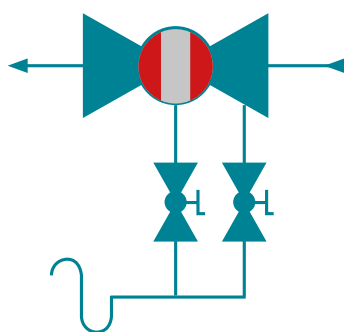
- bleed valve to check tightness when main valve is closed
- bleed outlet standard with "goose neck" pipe

### Accessories:

- bleed outlet standard with "goose neck" pipe
- pressure transmitter
- valve automation
- locking device



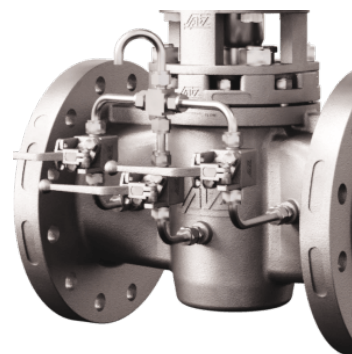
**DBI-B&I**



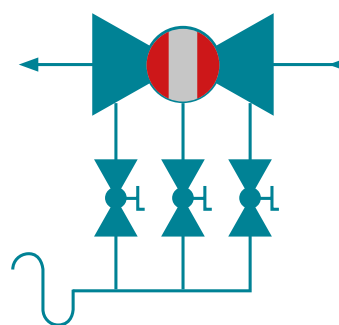
- bleed valve to check tightness when main valve is closed
- inspection valve for inspection and revision services

### Accessories:

- manometer/pressure gauge
- pressure transmitter
- valve automation
- locking device



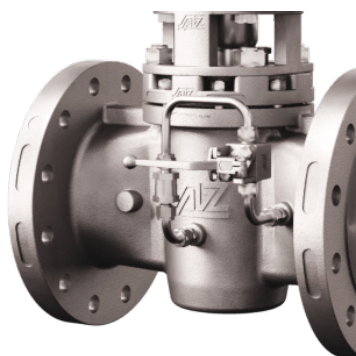
**DBI-B&2I**



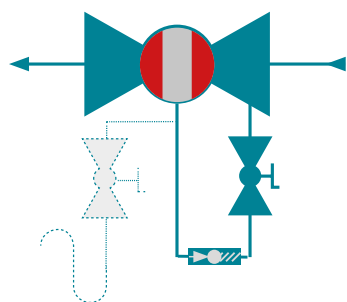
- bleed valve to check tightness when main valve is closed
- inspection valve I and II (upstream / downstream) for inspection and revision services

### Accessories:

- manometer/pressure gauge
- pressure transmitter
- valve automation
- locking device



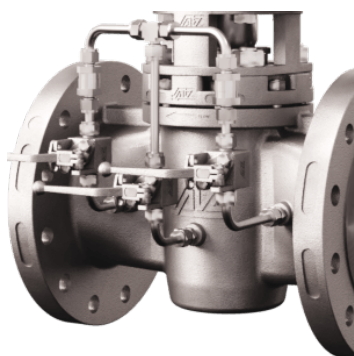
**DBI-TR1**



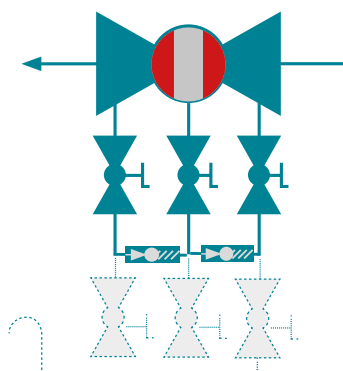
- thermal relief system to prevent pressure build-up due to thermal expansion in the plug
- isolation valve in case of service

Accessories:

- bleed valve
- manometer/pressure gauge
- pressure transmitter
- valve automation
- locking device



**DBI-TR2**



- thermal relief system to prevent pressure build-up due to thermal expansion in the plug and downstream pipeline
- isolation valves in case of service

Accessories:

- bleed valves
- inspection valves
- manometer/pressure gauge
- pressure transmitter
- valve automation
- locking device