Stübbe®
Partner for Solutions

BALL VALVE

C 200

Modern Construction. Flexible Modular Design. Highest Safety.

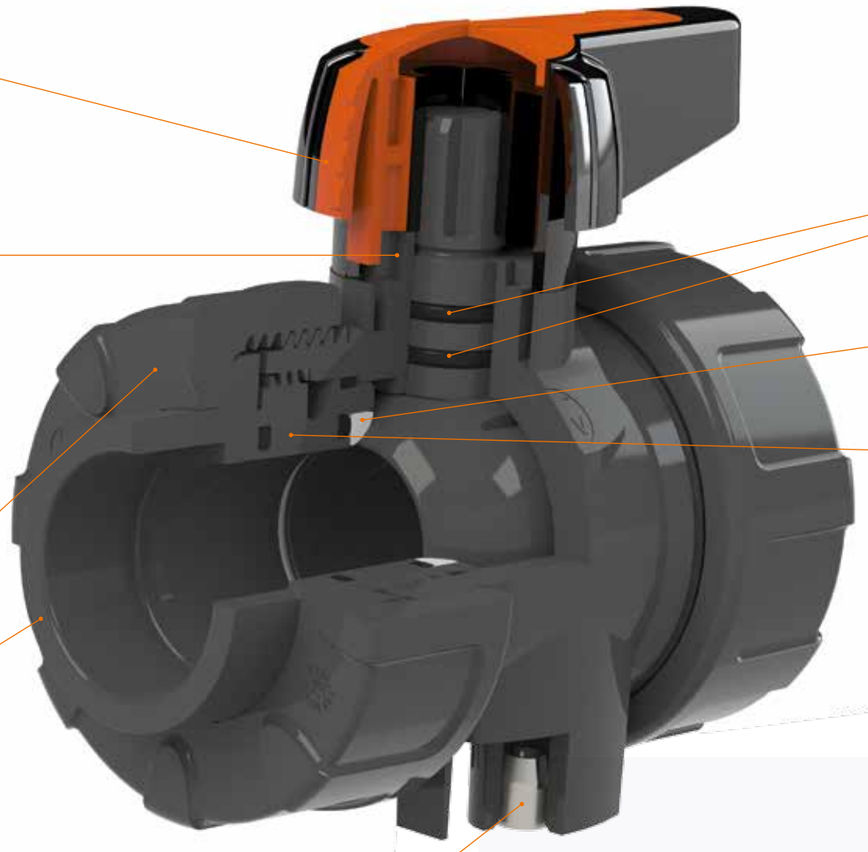
C 200 – THE SYSTEM AT A GLANCE

C 200
with hand lever

C 200
with hand lever and limit switch box

C 200
with pneumatic actuator

C 200
with electric actuator



Ergonomic hand lever

Position locking ‚Safety Guard‘

Intelligent interface for
connection of the mounting kit

Generously dimensioned
union connection

Broad range of
union end varieties

Integrated stainless steel mounting inserts

Double shaft seal

PTFE ball seat

Union threaded neck

Key Facts

- high-end industrial valve
- flexible modular design with a broad range of product varieties
- reliable material combinations for safe handling of aggressive media
- newly designed ergonomic hand lever with position locking device „safety guard“
- intelligent accessories and interfaces for the integration of limit switches and actuators
- integrated mounting inserts

MATERIAL

The ball valve C 200 is the result of the progression of our valves. The goal is to provide a ball valve for all applications in the chemical plant construction. The new ergonomic design of the C 200 follows the design guiding principle „form follows function“. The modern construction combines highest mechanical stability with an excellent chemical consistency.

The C 200 is a high quality industrial valve with a flexible modular system, offering a solution for a broad variant spectrum for every assembly and operation situation. Due to the reliable material combination, the C 200 ensures safe handling of particularly aggressive media. The ball valve is available in the following materials: PP (polypropylene), PVC-U (polyvinyl chloride) and PVDF (polyvinylidene fluoride) in combination with high-end elastomers.

PRODUCT FEATURES

Union connection

Generously dimensioned union nuts with thermo plastic compatible threading. A broad range of union ends guarantee an optimized product with a self-locking thread for an optimum of pipe line force absorption.

Intelligent interface

The mounting kit connects to the intelligent interface and is being used to assemble the electrical and pneumatic drives as well as housing for the limit switches of all drive model variants. Improved installation and an ideal connection between the ball valve and mounting kit are the results of the development. The connection results in a high stability and guarantees optimal ball valve functions and a more efficient power transmission.

Ergonomic handle

A redesigned ergonomic handle with position locking ‚safety guard‘. Extremely user-friendly due to the compact design and the optimal connection to the double-sealed spindle. The safety guard function enables the ball valve to lock – in either opened or closed position. The exchangeable inlays are available in three colors (red, blue and green), allowing to label different media strands and applications..

Integrated mounting inserts

Integrated and tear-resistant stainless steel mounting inserts with standardized metric thread for a safe and flexible installation.

MODULAR DESIGN

Limit switch

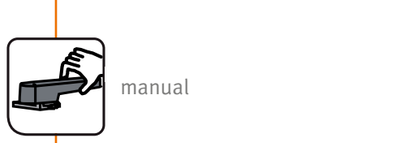
- … Option:
  - Micro Switch
  - Proximity Switch
- … Hand Lever

Electric actuator

- … Option:
  - Heater
  - Failsafe
  - Multivoltage
- … Operating Voltage 24V or 230V

Pneumatic actuator

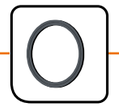
- … Option:
  - Limit Switch: Micro Switch
    Proximity Switch
  - Pilot Valve 24V or 230V
- … NC | NO | DA


manual

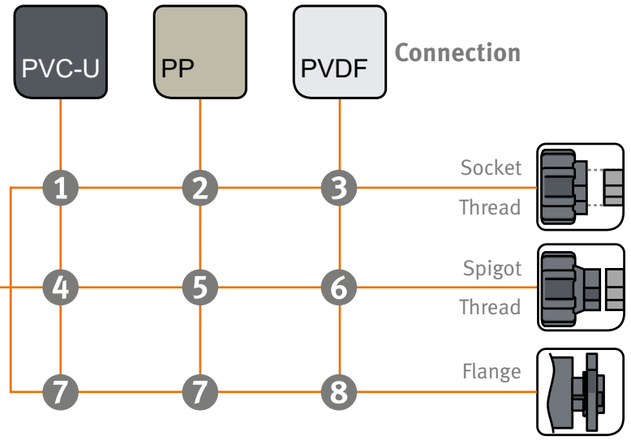

electric


pneumatic

EPDM



FPM



Basic Nominal Sizes: DN 15, DN 20, DN 25, DN 32, DN 40, DN 50

Connection Material (pipe connection)

1. **PVC-U:** socket DIN*
   socket ANSI, BS, JIS
   female thread Rp
   1.4571 (V4A):
   female thread Rp
   male thread R
   2.0401 (Ms):
   female thread Rp
   male thread R
2. **PP socket** DIN*
   female thread Rp
3. **PVDF socket** DIN*
4. **PE spigot** (90mm)
5. **PP spigot IR**
   PE spigot (90mm)
6. **PVDF spigot IR**
7. **GFR flange** DIN
   PP/St. flange ANSI
8. **PP/St. flange** DIN, ANSI

* incl. DN 10

C 200 – ACCESSORIES

Actuator

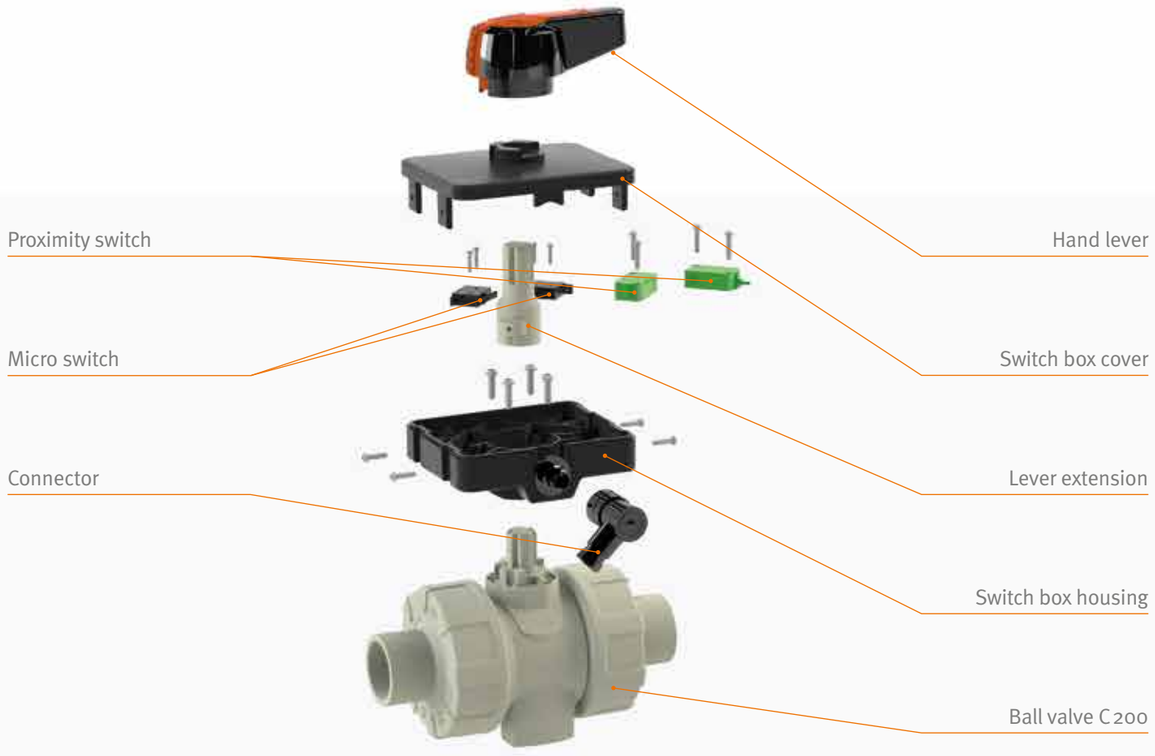
Electrical and pneumatic actuators are available for the automatic powertrain of the ball valve C 200.
Due to a broad spectrum of options these actuators are combinable for any application.

Pneumatic
- compact design
- robust thermoplastic housing

Option:
- limit switch
- pilot valves
- aluminium casing

Electric
- high-performance 90° actuator
- 24V or 230V
- two adjustable limit switches
- integrated manual override

Option:
- Multivoltage: 90 - 240V 50/60 Hz or 12 - 48VDC
- integrated heating element
- additional limit switches, failsafe, feedback 0-20 mA / 4-20 mA / 0-10V / potentiometer
- electric variable speed actuator



Nominal width DN15 – DN50

Electrical Feedback

Micro switches or proximity switches are being used for a safe electrical position feedback of the ball valve. They are placed in the limit switch box which is integrated in the mounting kit. A total of three different limit switches in the protection class IP 67 are available. Through the selection of the desired limit switch option, the terminal position recognition is certain. With the micro switches, direct shut-down procedures and high-quality digital polls over the PNP proximity switches are possible. For switching amplifiers or Namur evaluation rates, a ATEX approved version of this product is available.

- Micro switch
- Proximity switch PNP
- Proximity switch Namur

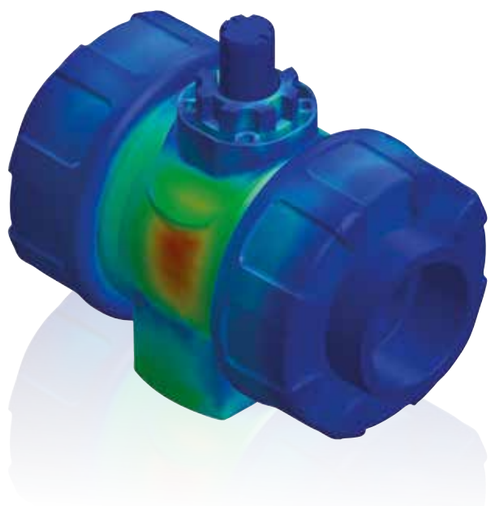
QUALITY MANAGEMENT

ASV Stübbe development technique

Our development technique is „State of the Art“. For the development of the best products we not only invested in a team of experts, but also in the newest software solutions. Solid Works, Ansys and CF Turbo are standard for us. Our team of highly experienced engineers and developers combine their know-how with high-quality software technology to audit strength and deformation simulators (FEM) for stress analysis and the maximum exposure of the components. In addition, a number of quality tests in our in house laboratory are performed to obtain and exceed national, international and internal standards.

Developed and qualified according to ISO standards

- DIN EN ISO 16135
  Industrial valves – Ball valves of thermoplastics materials
- ISO 9393
  Thermoplastics valves for industrial applications – Pressure test methods and requirements



TECHNICAL DATA BALL VALVE C 200

Size	DN 10 – DN 50
Material	PP, PVC-U and PVDF
Ball Seat	PTFE
Sealing	EPDM, FPM
Nominal Pressure	PVC-U, PVDF PN 16 | PP PN 10
Temperature	depending on material: from -30 °C to 140 °C
Kv Value	depending on size: from 75l/min to 3200 l/min
Actuator variants	manual, electric and pneumatic
Drivetrain squar box screw	14mm or 11mm
Connection flange actuator	according to ISO 5211
Break loose torque	depending on size: 6 Nm – 20 Nm

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