Valves

sealex®

KLAUS UNION

Quality and Know How, A Valve's Most Efficient Combination

Klaus Union is one of the leading manufacturers of valves and pumps specially designed for the chemical industrial market. The professional production capability acquired over more than 40 years, a sophisticated and state-of-the-art fabrication process provide an excellent basis for finding optimum solutions to any special problems versatile response to any specific requirement imposed by the user.
Valve and pump units supplied by Klaus Union are of superior quality and come up to the highest standard. They contribute to appreciably enhance both performance and safety of your installation and, besides they cut pollution to the benefit of environment and mankind.
Klaus Union: We set the standard for valves.

Quality Assurance

It is the policy of Klaus Union to achieve adequate quality assurance for the manufacture of all products to ensure they comply with contractual requirements. All subsuppliers are totally committed to assure and achieve the contractual requirements through vigorous implementation of the quality assurance program. All purchased material is repeatedly inspected for conformity on receipt and after assembly.

The quality assurance system established according to latest state-of-the-art principles fully complies with the requirements specified in international codes and regulations.

A quality assurance system that has been verified and certified warrants that the requirements imposed by you are fully complied with.

TÜV CERT
DIN ISO 9001
Zertifikat: QA - 427

sealex – The Safety System – Perfectly Seals Aggressive, Explosive and Toxic Fluids

High safety demands are put on valves conveying highly dangerous fluids. In addition to their normal application, the valves must prove their safe and reliable operation even under adverse and extreme conditions, all by maintaining the perfectly sealed condition for a very long period of time.

Is this a stringent requirement? Valves and pumps manufactured and supplied by Klaus Union under the tradename *sealex* incorporate this safety. During all stages of manufacture they are all subjected to regular quality control tests and have to pass stringent examinations by our own quality assurance department. Valves that have passed all of these tests and examinations are of superior quality and provide an exceptionally safe operation and reliability. This safety is not only in compliance with German and international codes and standards, but has also been attested in test certificates issued by TÜV (HPO, WO).

In addition to all types of steel and stainless steel used for the fabrication of first class quality Klaus Union valves there is a wide choice of materials including but not limited to: nickel, monel, hastelloy, and titanium. Highly advanced production machines and procedures are available allowing economic fabrication of our products in series or custom designed. Hence, Klaus Union can supply and deliver any valve system in strict compliance with any specific requirement.

Table of contents

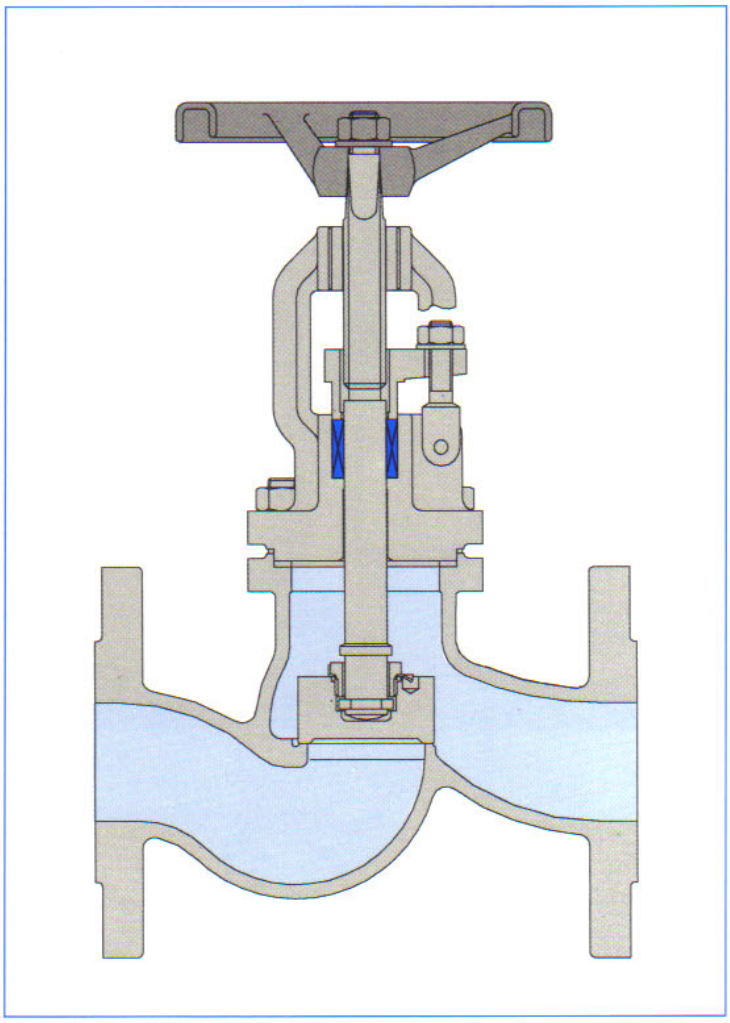
Valves – Engineered by Klaus Union Advanced Concept Operating Successfully in Installations – World-wide.

Research and development work continually made by Klaus Union focussing at an advanced technology of environmental compatibility has resulted in a product range that warrants safe and reliable operation in compliance with virtually all and any requirements.

In addition to the products listed in this leaflet, Klaus Union can assist you in resolving any of your special problems. Contact us for any further particulars you may require.

Quality Approvals

- ISO 9001/EN 29001/ BS 5750 Part 1
- To "TRB 801, No. 45, Section 7.5 for valves of class B"
- Instruction "AD-HP0"
- Instruction "AD-W0/- TRD 100/ TRD 201"
- Component examination and test (TÜV) for gate valves and globe valves
- Certified to "TA-Luft" for body tightness
- Certified to "TA-Luft" for spring loaded stuffing boxes



Globe valves
to DIN 3356
stuffing box

- globe valve, straight seat type
- flanges to DIN 2501
- outside screw and yoke
- rising handwheel
- rising stem
- stuffing box

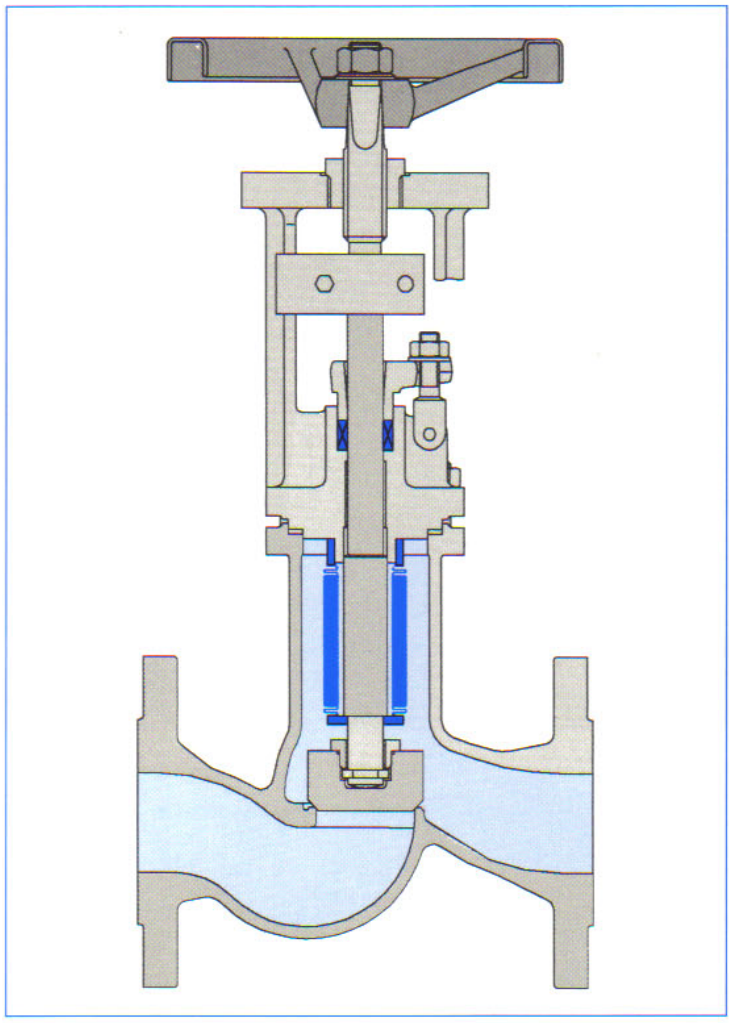
DN 15 - 300, PN 10 - 40
DN 15 - 250, PN 63 - 100
DN 15 - 150, PN 160

Standard materials:

GS-C25	1.0619
G-X6CrNiMo1810	1.4408

Optional features:
heating jacket
extended bonnet
disc with PTFE seal
conical plug
throttle type plug
indicator
stellite seat
buttwelded
spring loaded stuffing box

Optional materials:
high temperature cast steel
low temperature cast steel
special alloys



sealex
Globe valves, bellow sealed
to DIN 3356
PN 10 up to PN 160

- globe valve, straight seat type
- flanges to DIN 2501
- two-piece stem
- rising stem
- rising handwheel
- indicator
- secondary seal
- yoke with flange to DIN/ISO 5210

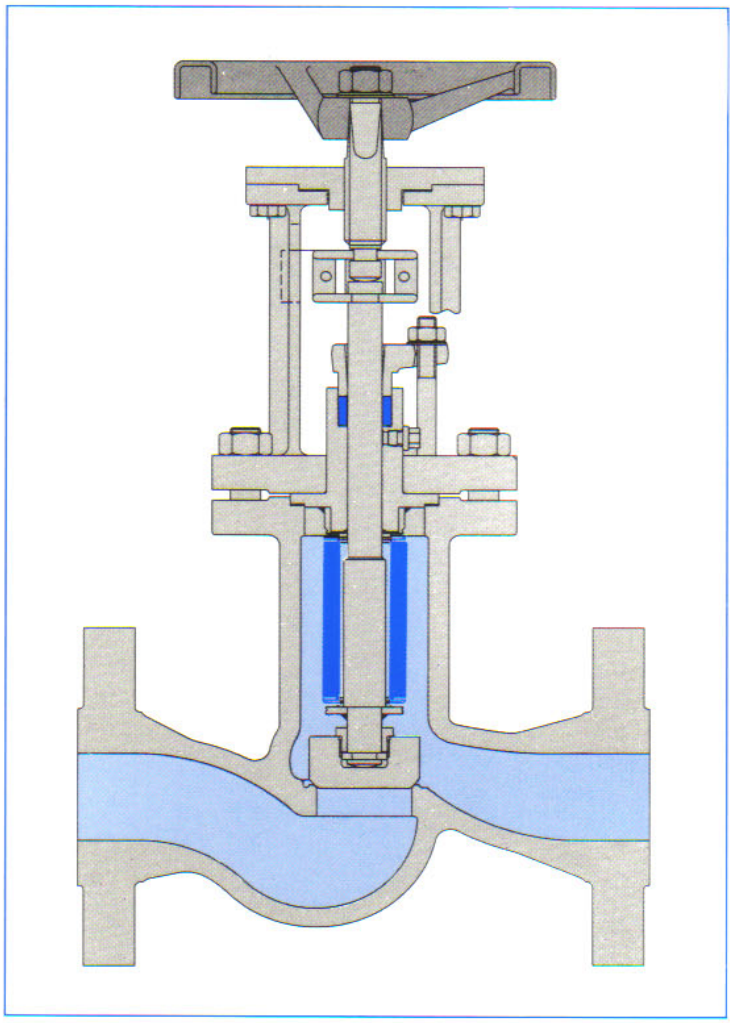
DN 15 - 300, PN 10 - 40
DN 15 - 200, PN 63 - 100
DN 15 - 100, PN 160

Standard materials:

GS-C25	1.0619
G-X6CrNiMo1810	1.4408

Optional features:
heating jacket
extended bonnet
conical plug
throttle type plug
stellite seat
buttwelded
welded body and bonnet

Optional materials:
high temperature cast steel
low temperature cast steel
special alloys



Globe valves, bellow sealed to ANSI B 16.5 and B 16.10 150 and 300lb

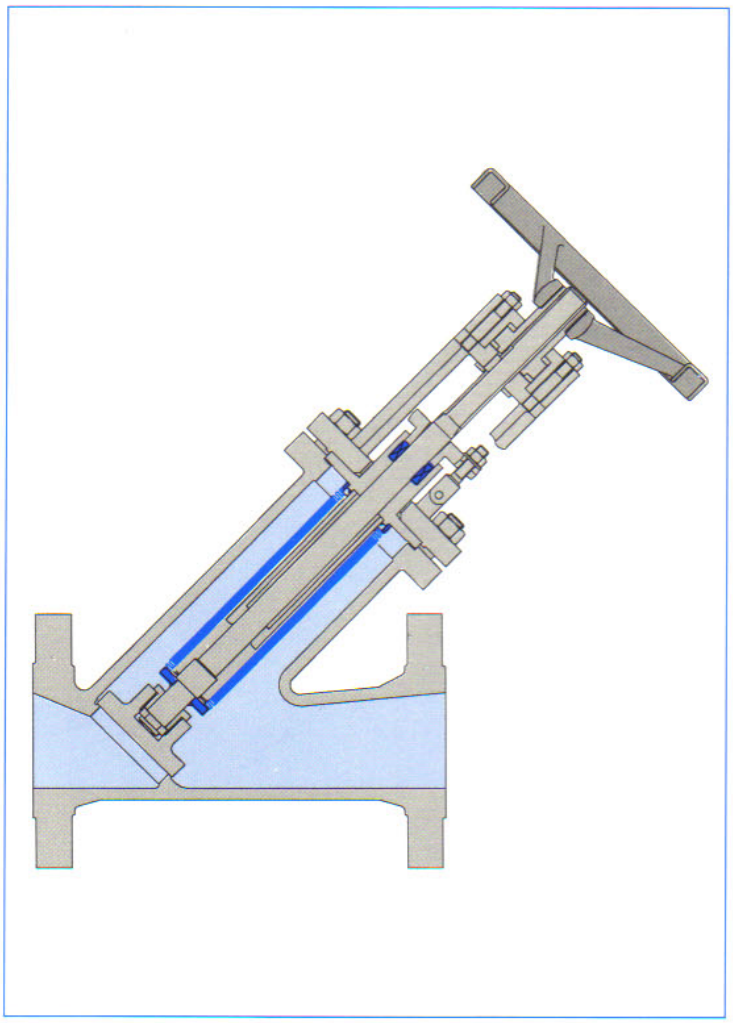
- globe valve, straight seat type
- flanges to ANSI B 16.5
- two-piece stem
- rising stem
- rising handwheel
- indicator
- secondary seal

DN 1/2" - 12", 150 lb
DN 1/2" - 12", 300 lb

Standard materials:
A216 WCB
A352 LCB

Optional features:
heating jacket
disc with PTFE seal
conical plug
stellite seat
buttwelded

Optional materials:
CrNi cast steel
special alloys



sealex
Globe valves, bellow sealed to DIN 3356 PN 10 up to PN 160

- globe valve, y-type
- flanges to DIN 2501
- rising stem
- non-rising handwheel
- secondary seal

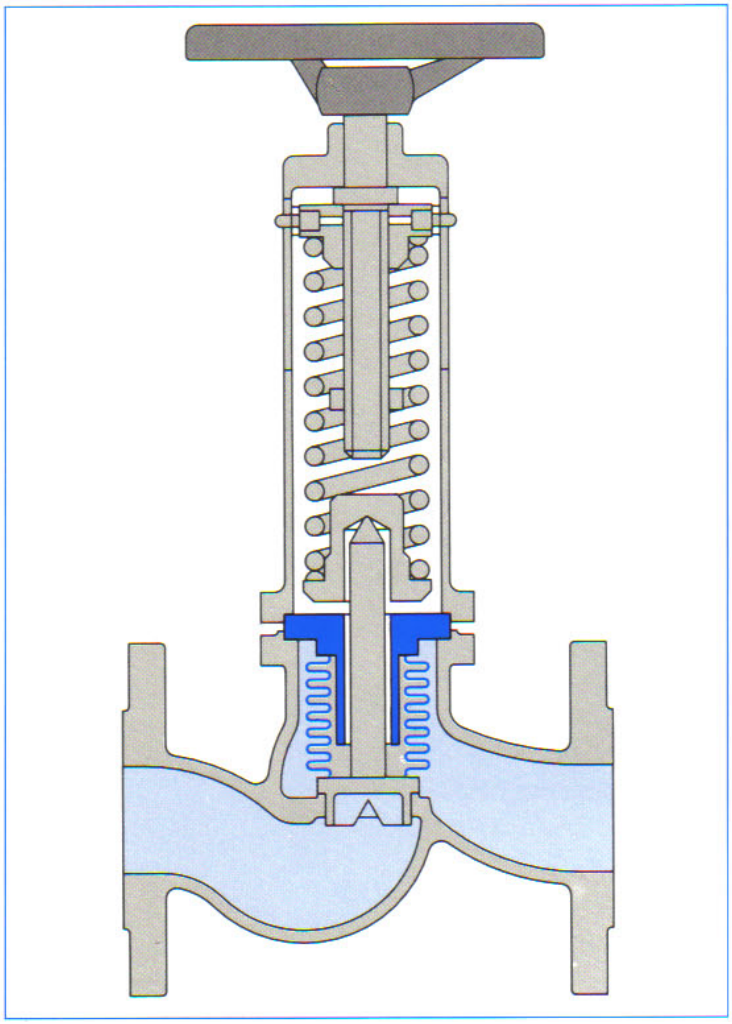
DN 15 - 300, PN 10 - 40
DN 15 - 200, PN 63 - 100
DN 15 - 100, PN 160

Standard materials:

GS-C25	1.0619
G-X6CrNiMo1810	1.4408

Optional features:
heating jacket
conical plug
stellite seat
buttwelded
welded body and bonnet

Optional materials:
high temperature cast steel
low temperature cast steel
special alloys



Relief valves, bellow sealed

- independent from counter-pressure
- straight seat type
- flanges to DIN 2501
- bellow sealed
- spring loaded
- adjustable by handwheel
- non-rising stem
- top-guided V-port

DN 15 - 150, PN 40

Range of selection (bar):

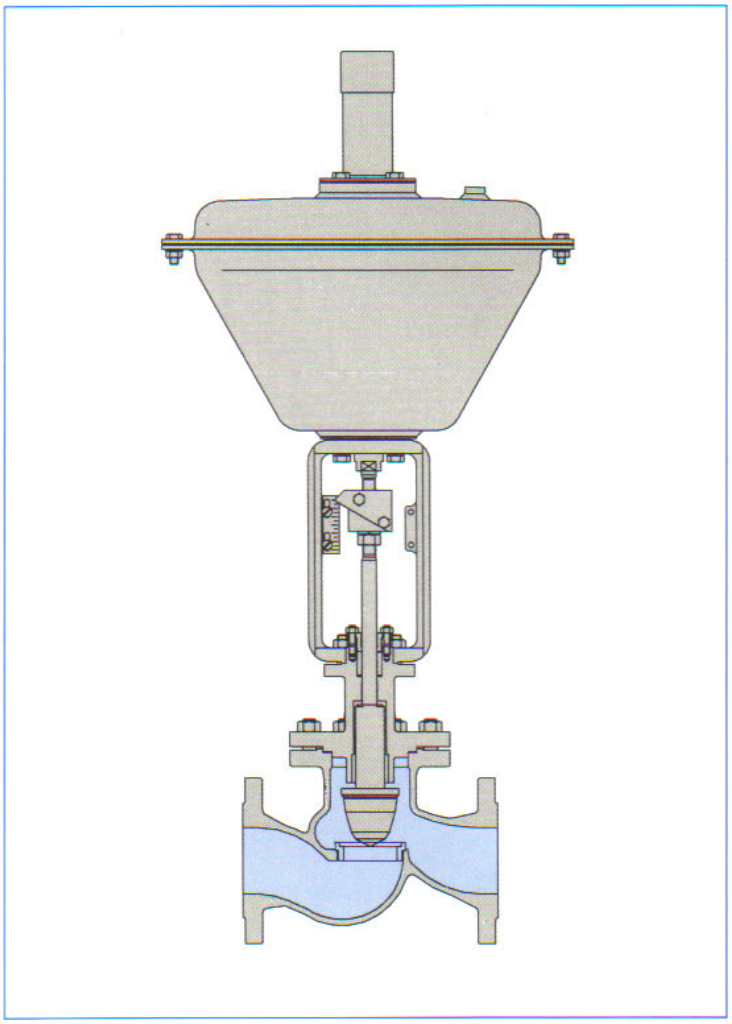
1,0 ... 2,5
2,5 ... 6,0
6,0 ... 10,0
10,0 ... 16,0
16,0 ... 22,0
22,0 ... 30,0
30,0 ... 40,0

Standard materials:

GS-C25	1.0619
G-X6CrNiMo1810	1.4408

Optional features:
heating jacket
buttwelded
stellite seat
spring pipe

Optional materials:
special alloys



Control valves stuffing box

- **Single seat type:**
  DN 15 - 200, PN 10 - 40
  DN 15 - 100, PN 63 - 160
- **Double seat type:**
  DN 50 - 300, PN 10 - 40
  DN 50 - 200, PN 63 - 160
- flanges to DIN 2501
- pneumatic diaphragm actuator
- operating action reversible
- mechanic travel indicator
- stuffing box
- test curve linear or equal percentage type

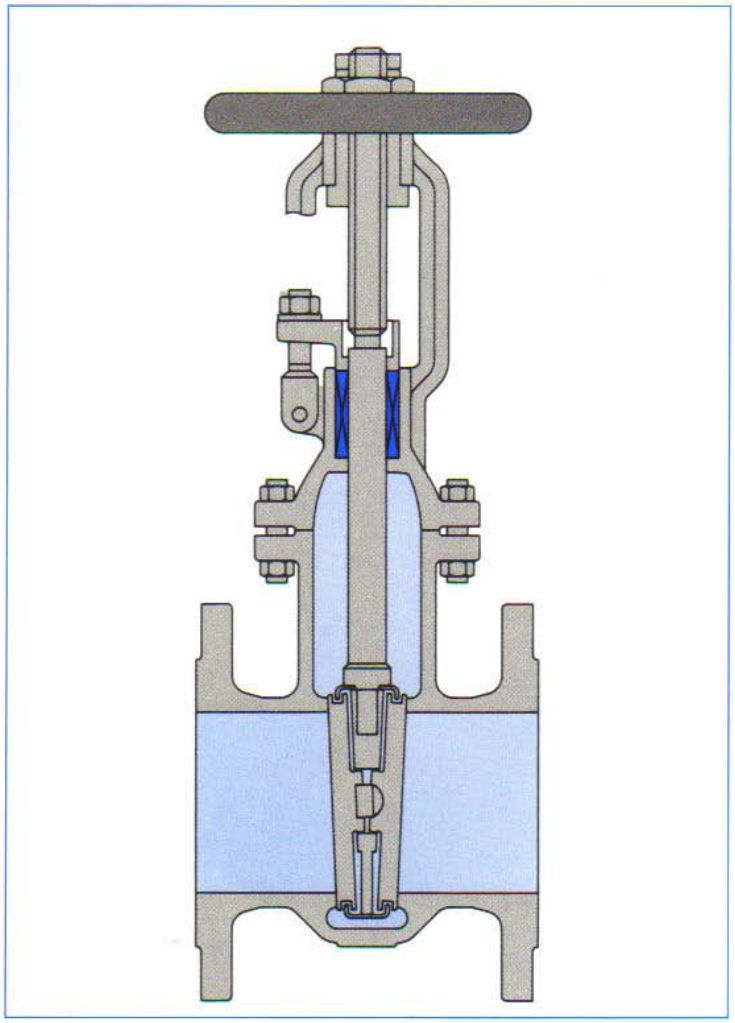
Standard materials:

G-X6CrNi18 9	1.4308
G-X6CrNiMo1810	1.4408

Optional features:
stellite seat
heating jacket
extended bonnet
bellow sealed

Optional equipment:
pneumatic or electro-pneumatic positioner
handwheel

Optional materials:
high temperature cast steel
low temperature cast steel
special alloys



Gate valves
to DIN 3352
stuffing box

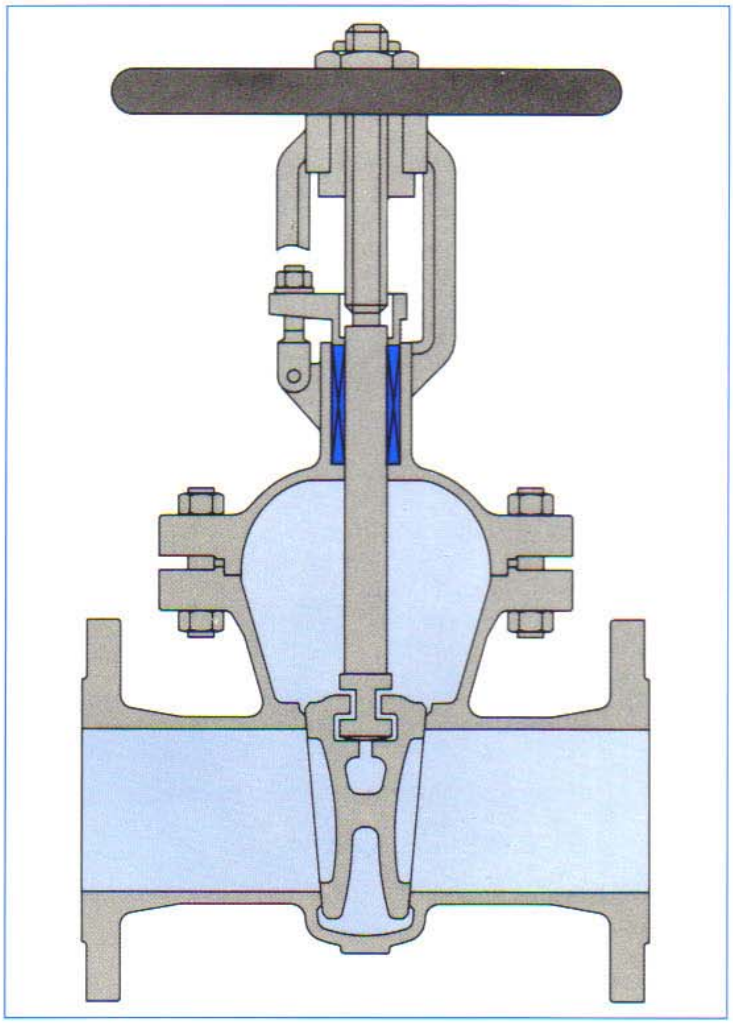
- flat shaped body (isomorphous series)
- double disc
- flanges to DIN 2501
- outside screw and yoke
- non-rising handwheel
- rising stem

DN 50 - 150, PN 10
DN 200 - 300, PN 6
DN 350 - 500, PN 4
DN 600, PN 2.5

Standard materials:
G-X6CrNiMo1810 1.4408

Optional features:
stellite seat

Optional materials:
special alloys



Gate valves
to DIN 3352
stuffing box

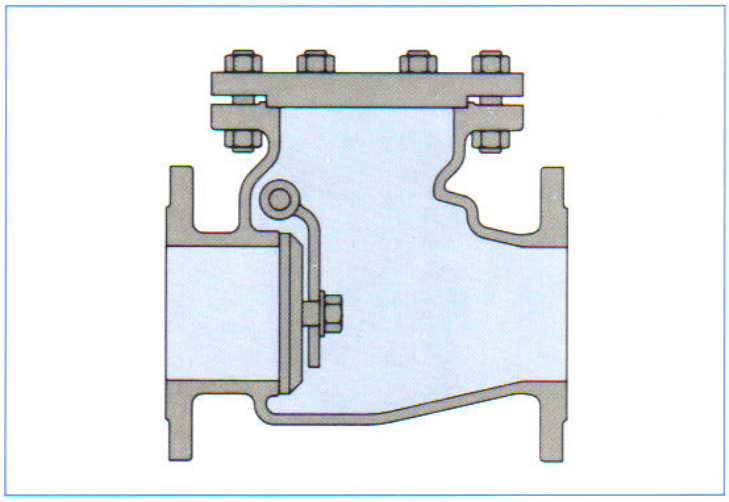
- gate valve with flexible wedge or double disc
- flanges to DIN 2501
- outside screw and yoke
- non-rising handwheel
- rising stem

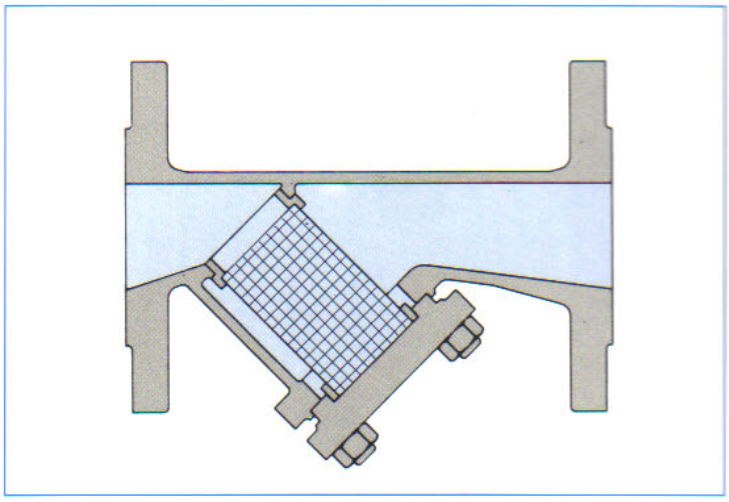
DN 50 - 600, PN 10 - 25
DN 50 - 500, PN 40 - 63
DN 50 - 200, PN 100 - 160

Standard materials:
GS-C25 1.0619
G-X6CrNiMo1810 1.4408

Optional features:
extended bonnet
heating jacket
buttwelded
spring loaded stuffing box
stellite seat
electric acuator
piston actuator

Optional materials:
high temperature cast steel
low temperature cast steel
special alloys





Swing check valves to DIN

- inside hinge or
- with lever and weight
- flanges to DIN 2501
- damping device (special design)

DN 40 - 600, PN 10 - 40
DN 40 - 400, PN 63 - 100
DN 40 - 300, PN 160 - 320

Standard materials:

GS-C25	1.0619
G-X6CrNiMo1810	1.4408

Optional features:
heating jacket
disc with PTFE seal
stellite seat
buttwelded

Optional materials:
high temperature cast steel
low temperature cast steel
special alloys

Strainers

- y-type
- flanges to DIN 2501
- removable basket

DN 15 - 300, PN 10 - 40
DN 15 - 250, PN 63 -100
DN 15 - 150, PN 160

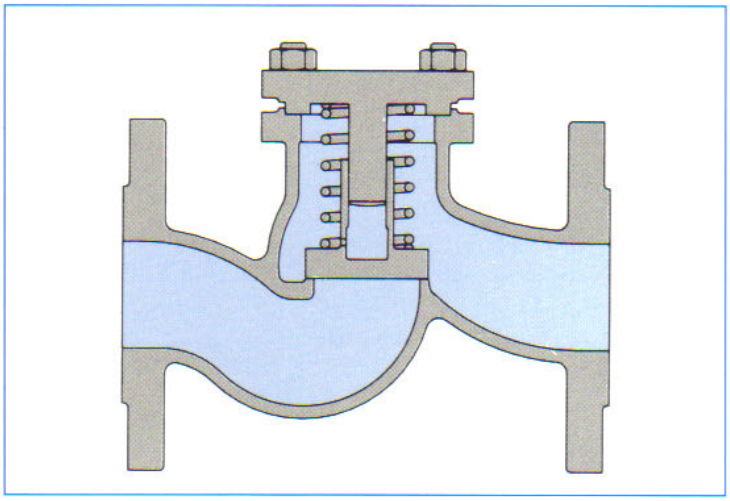
Mesh size:
up to DN 50 .....0.5 mm
DN 65 - DN 150..1.0 mm
from DN 200 .....1.5 mm

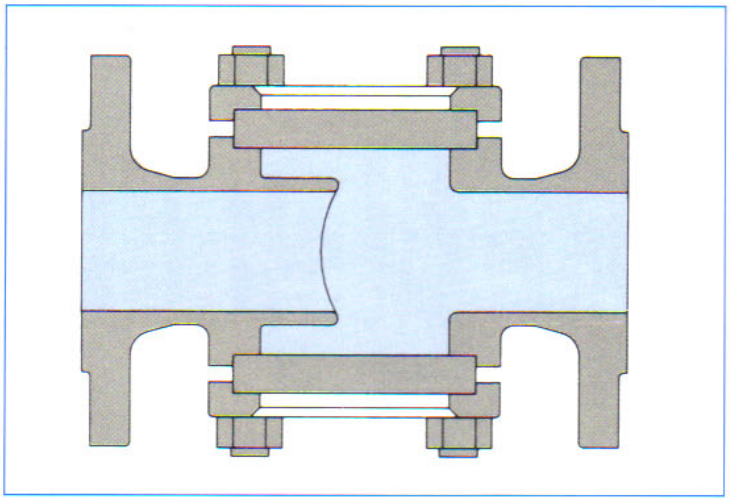
Standard materials:

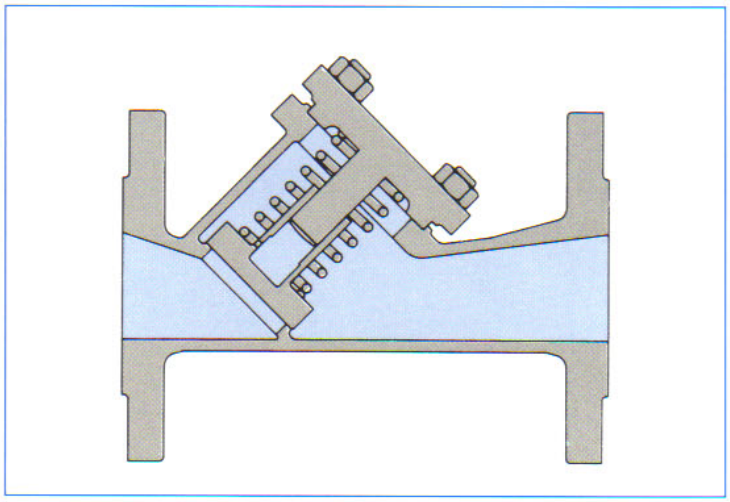
GS-C25	1.0619
G-X6CrNiMo1810	1.4408

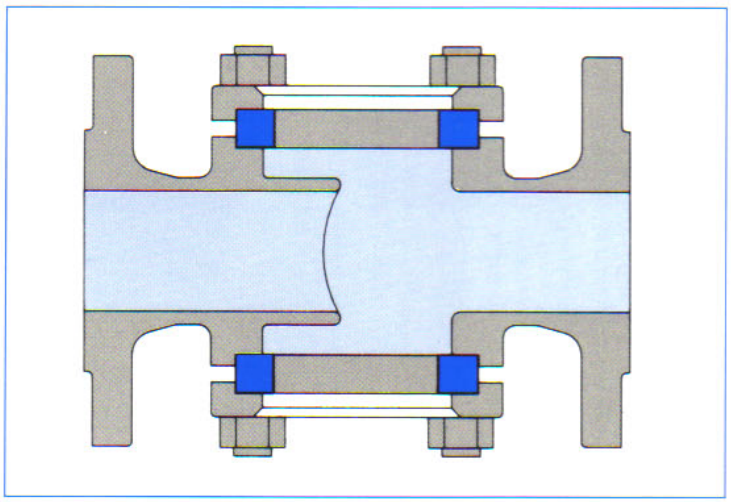
Optional features:
heating jacket
buttwelded

Optional materials:
high temperature cast steel
low temperature cast steel
special alloys









Check valves

- straight seat type or y-type
- flanges to DIN 2501
- spring loaded

DN 15 - 300, PN 10 - 40
DN 15 - 250, PN 63 - 100
DN 15 - 100, PN 160

Standard materials:

GS-C25	1.0619
G-X6CrNi 189	1.4308
G-X6CrNiMo1810	1.4408

Optional features:
heating jacket
closing by hand possible
stellite seat

Sight glasses to DIN 3237, part 1

- straight passage with borosilicate glasses to DIN 7080
- flanges to DIN 2501

DN 15 - 200, PN 10 - 40

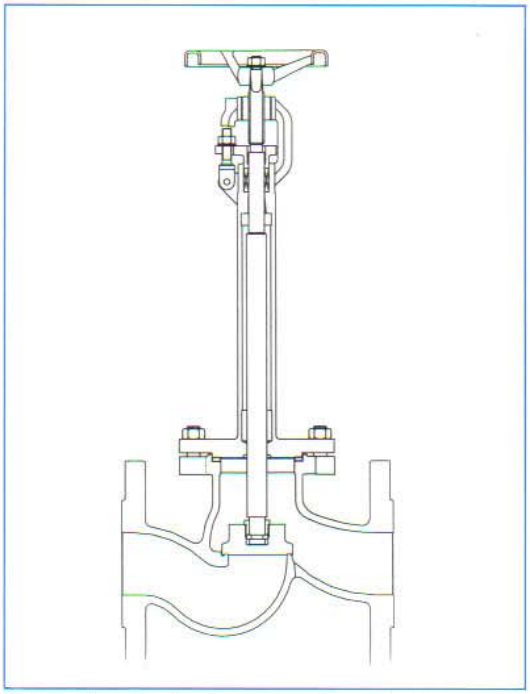
Standard materials:

GS-C25	1.0619
G-X6CrNiMo1810	1.4408

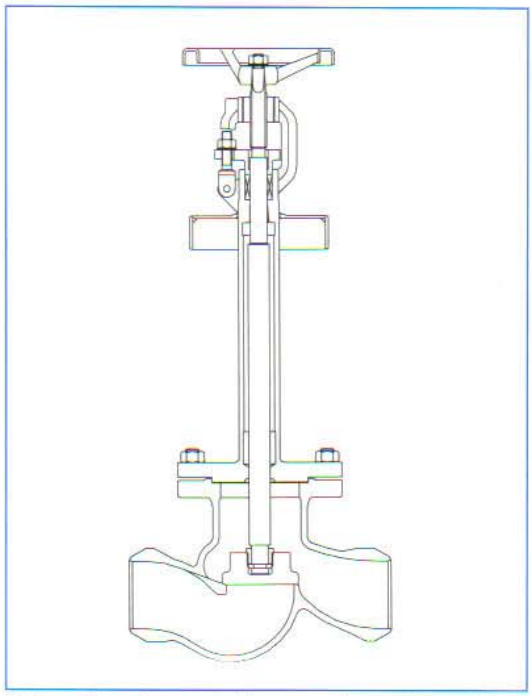
Optional features:
heating jacket
double glasses
glasses melted in a metal ring

Optional materials:
special alloys

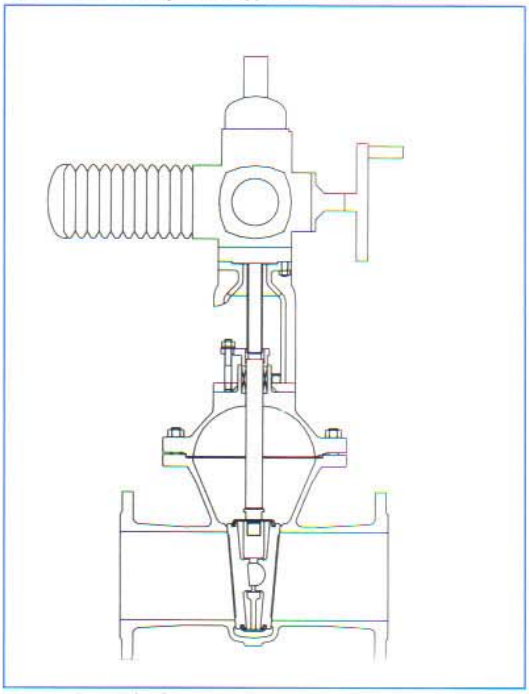
Special constructions



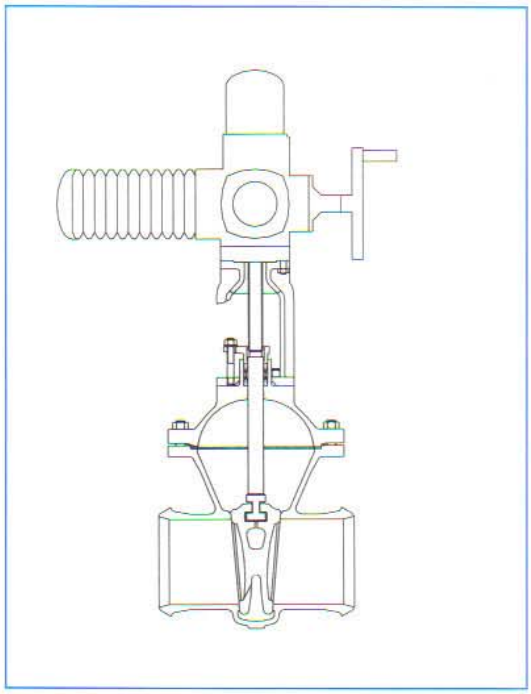
Globe valve, straight seat type, with extended bonnet



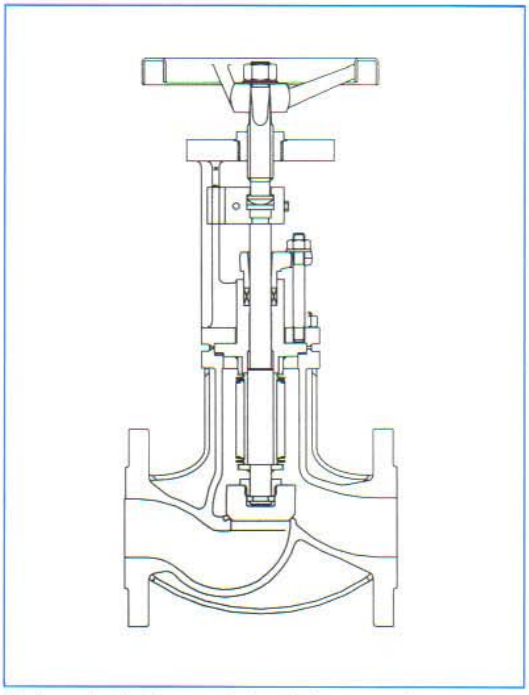
Globe valve with extended bonnet, collar and buttwelded



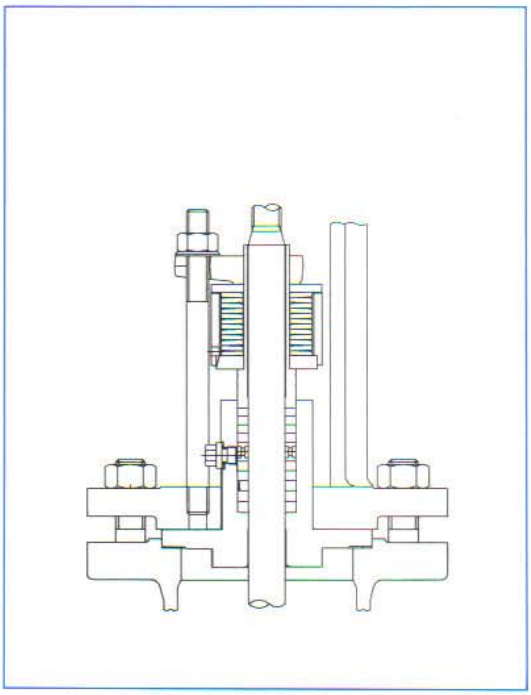
Gate valve with electric actuator



Gate valve with electric actuator and buttwelded



Globe valve, bellow sealed, with heating jacket



Spring loaded stuffing box to "TA-Luft"

KLAUS UNION

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Tel. 02 34/45 95-0
Fax 02 34/43 23 87
Telefax 825 855 klaus

Check-list for valve inquiries

Technical Data:		
Service temperature		
Operating pressure	bar/psi	
Liquid / Density		
Nominal diameter	DN/in.	
Nominal pressure	PN/lbs	
Drive hand / pneumatic / electric		
Explosion protection class		
* Input pressure	bar/psi	
* Output pressure	bar/psi	
* Difference pressure	bar/psi	
* Max. / min. flow rate (Nm^3/h) or	gpm	
* Open / close rating		
DIN / ANSI		
Body material		
Flanged / buttwelded		
Valve type:		
Valve / stuffing box / bellow sealed		
Gate valve / stuffing box		
Check valve / swing or lift type		
Control valve / double or single seat		
* applicable with control valves only		

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http://www.klaus-union.de

Subject to alternations 08.98.52e

KLAUS UNION