

AD, AE

Технические характеристики

По вопросам продаж и поддержки обращайтесь:

| | | | |
|-----------------------------|---------------------------------|--------------------------------|---------------------------|
| Алматы (7273)495-231 | Казань (843)206-01-48 | Новокузнецк (3843)20-46-81 | Смоленск (4812)29-41-54 |
| Архангельск (8182)63-90-72 | Калининград (4012)72-03-81 | Новосибирск (383)227-86-73 | Сочи (862)225-72-31 |
| Астрахань (8512)99-46-04 | Калуга (4842)92-23-67 | Омск (3812)21-46-40 | Ставрополь (8652)20-65-13 |
| Барнаул (3852)73-04-60 | Кемерово (3842)65-04-62 | Орел (4862)44-53-42 | Сургут (3462)77-98-35 |
| Белгород (4722)40-23-64 | Киров (8332)68-02-04 | Оренбург (3532)37-68-04 | Тверь (4822)63-31-35 |
| Брянск (4832)59-03-52 | Краснодар (861)203-40-90 | Пенза (8412)22-31-16 | Томск (3822)98-41-53 |
| Владивосток (423)249-28-31 | Красноярск (391)204-63-61 | Пермь (342)205-81-47 | Тула (4872)74-02-29 |
| Волгоград (844)278-03-48 | Курск (4712)77-13-04 | Ростов-на-Дону (863)308-18-15 | Тюмень (3452)66-21-18 |
| Вологда (8172)26-41-59 | Липецк (4742)52-20-81 | Рязань (4912)46-61-64 | Ульяновск (8422)24-23-59 |
| Воронеж (473)204-51-73 | Магнитогорск (3519)55-03-13 | Самара (846)206-03-16 | Уфа (347)229-48-12 |
| Екатеринбург (343)384-55-89 | Москва (495)268-04-70 | Санкт-Петербург (812)309-46-40 | Хабаровск (4212)92-98-04 |
| Иваново (4932)77-34-06 | Мурманск (8152)59-64-93 | Саратов (845)249-38-78 | Челябинск (351)202-03-61 |
| Ижевск (3412)26-03-58 | Набережные Челны (8552)20-53-41 | Севастополь (8692)22-31-93 | Череповец (8202)49-02-64 |
| Иркутск (395)279-98-46 | Нижний Новгород (831)429-08-12 | Симферополь (3652)67-13-56 | Ярославль (4852)69-52-93 |
| Россия (495)268-04-70 | Киргизия (996)312-96-26-47 | Казахстан (7172)727-132 | |



Qualität von Anfang an.

Technische Daten

BAUFORM

2-teilige Körperkonstruktion (verschraubt).

BETÄTIGUNG

Drehung des Handrades.

ANSCHLUß

Innengewinde 1/4" ... 2" nach DIN 2999

BETRIEBSDRUCK

Großvakuum bis Nenndruck PN16 bis +80°C.
Bei Betriebstemperaturen über +80°C siehe
Druck-Temperatur-Diagramm.

TEMPERATUR

-20°C ... +150°C.

WERKSTOFFE

Gehäuse: Edelstahl 1.4408
Deckel: Edelstahl 1.4408
met. Innenteile: Edelstahl
Spindeldichtung: PTFE
Sitzdichtung: PTFE

Alle Angaben sind freibleibend und
unverbindlich.

Specification

DESIGN

Body consists of 2 screwed parts.

OPERATION

Rotation of the handwheel.

CONNECTION

Female thread 1/4" ... 2" acc. to DIN 2999

PRESSURE RANGE

Almost vacuum up to nominal pressure
PN16 up to +80°C. For higher temperatures
please refer to the Pressure-Temperature-
Diagram.

TEMPERATURE RANGE

-20°C ... +150°C.

MATERIALS

Body: Stainless steel AISI 316
Cap: Stainless steel AISI 316
met. internal parts: Stainless steel
Stem seal: PTFE
Seat: PTFE

The above information is intended for guidance
only and the company reserves the right to
change any data herein without prior notice!

Artikel:
AD

Schrägsitzventil
PN16

Edelstahl



Type:
AD

Angle seat valve
PN16

Stainless steel



Artikel- u. Bestellangaben: z.B. AD311025

= Schrägsitzventil, Edelstahl / PTFE, Innengewinde: 1"

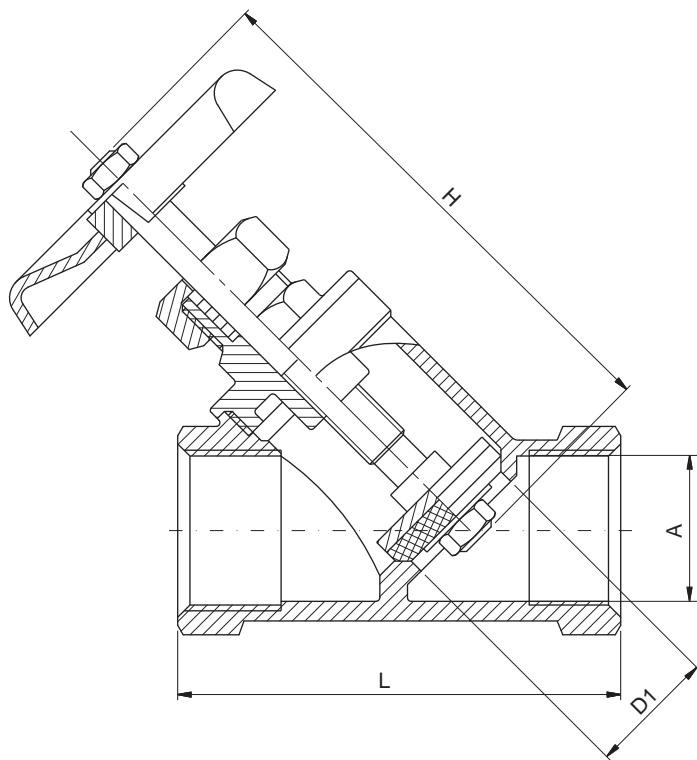
| 1.+ 2. Stelle Produkt | 3.+ 4. Stelle Werkstoffe Gehäuse / Dichtung | 5. Stelle Betätigung | 6. Stelle Zusatzausstattung | 7.+ 8. Stelle Anschlußgröße (nach DIN 2999) |
|--------------------------|---|-------------------------|--------------------------------|--|
| AD= Schrägsitzventil | 31 = Edelstahl / PTFE | 1 = Handrad | 0 = ohne | 21 = 1/4" 22 = 3/8" 23 = 1/2" 24 = 3/4" 25 = 1" 26 = 1 1/4" 27 = 1 1/2" 28 = 2" |

Ordering example: e.g. AD311025

= Angle seat valve, stainless steel / PTFE, female thread: 1"

| 1.+ 2. Digit Product | 3.+ 4. Digit Material Body / Seal | 5. Digit Operation | 6. Digit Connection | 7.+ 8. Digit Connection size (acc. to DIN 2999) |
|-------------------------|---|-----------------------|------------------------|--|
| AD= Angle seat valve | 31 = Stainless steel / PTFE | 1 = Handwheel | 0 = without | 21 = 1/4" 22 = 3/8" 23 = 1/2" 24 = 3/4" 25 = 1" 26 = 1 1/4" 27 = 1 1/2" 28 = 2" |

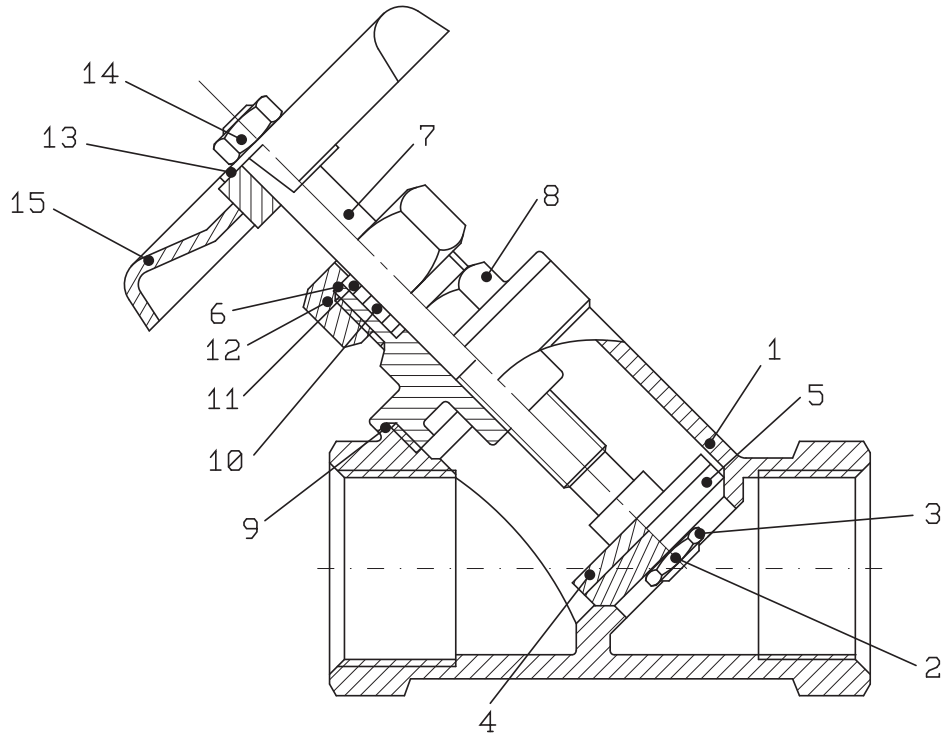
Abmessungen / Dimensions



| A ["] | L [mm] | H [mm] | D [mm] | Kv [m³/h] | m [kg] |
|----------|-----------|-----------|-----------|--------------|-----------|
| 1/4 | 57 | 90 | 10 | | 0,3 |
| 3/8 | 57 | 90 | 10 | | 0,3 |
| 1/2 | 61 | 105 | 15 | 3,4 | 0,4 |
| 3/4 | 70 | 115 | 20 | 6,1 | 0,5 |
| 1 | 86 | 125 | 25 | 9,5 | 0,7 |
| 1 1/4 | 100 | 140 | 32 | 15,6 | 0,9 |
| 1 1/2 | 111 | 150 | 32 | 24,4 | 1,35 |
| 2 | 138 | 185 | 50 | 38,1 | 1,65 |

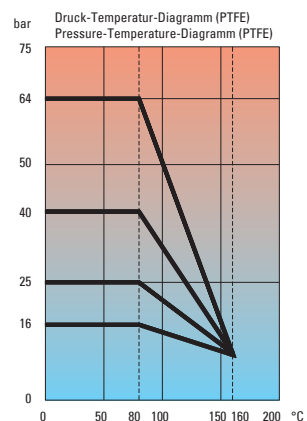


Stückliste / Parts List



| No. | Bezeichnung | Material | Name | Material |
|-----|--------------------|------------------|---------------|------------------------|
| 1 | Gehäuse | Edelstahl 1.4408 | Body | stainless steel 1.4408 |
| 2 | Stift | Edelstahl 1.4404 | Pin | stainless steel 1.4404 |
| 3 | Mutter | Edelstahl 1.4301 | Nut | stainless steel 1.4301 |
| 4 | Ventilteller | Edelstahl 1.4408 | Valve disc | stainless steel 1.4408 |
| 5 | Sitzdichtung | PTFE | Seat seal | PTFE |
| 6 | Scheibe | Edelstahl 1.4408 | Thrust washer | stainless steel 1.4408 |
| 7 | Spindel | Edelstahl 1.4408 | Stem | stainless steel 1.4408 |
| 8 | Ventiloberteil | Edelstahl 1.4408 | Bonnet | stainless steel 1.4408 |
| 9 | Dichtung | PTFE | Gasket | PTFE |
| 10 | Packung | Edelstahl 1.4408 | Stem Packing | stainless steel 1.4408 |
| 11 | Buchse | Edelstahl 1.4408 | Gland | stainless steel 1.4408 |
| 12 | Mutter | Edelstahl 1.4408 | Cap nut | stainless steel 1.4408 |
| 13 | Scheibe | Edelstahl 1.4304 | Washer | stainless steel 1.4304 |
| 14 | Mutter für Handrad | Edelstahl 1.4301 | Handwheel nut | stainless steel 1.4301 |
| 15 | Handrad | Stahl | Handwheel | steel |

Druck-Temperatur-Diagramm / Pressure-Temperature-Diagramm





Qualität von Anfang an.

Technische Daten

BAUFORM

- 2-teilige, verschraubte Körperkonstruktion
- hochwertige Sitzdichtung aus PTFE
 - auch nach Richtlinie 1935/2004/EG lieferbar
 - mit Regelkegel als handbetätigtes Regelventil verwendbar (Option)

BETÄTIGUNG

Drehung des Handrades.

ANSCHLUß

- Innengewinde
 - 1/2" ... 3" nach ISO 228
 - 1/2" ... 2" NPT nach ASME B1 20.1
- Anschweißen
 - DN15 ... DN50 nach DIN 3239
 - DN15 ... DN80 nach ISO 4200
 - DN15 ... DN80 nach DIN 11850 Reihe 2
- Flansche
 - DN 15 ... DN 50 nach EN 1092-1 / PN40 (vorgeschweißt)

BETRIEBSDRUCK

Großvakuum bis Nenndruck bis +80°C. Bei Betriebstemperaturen über +80°C siehe Druck-Temperatur-Diagramm .
PN40/16: mit Flansch
PN40: mit Gewinde oder Anschweißen

TEMPERATUR

-20°C ... +180°C
Dampf nur nach Rücksprache!

WERKSTOFFE

Gehäuse: Edelstahl 1.4408
Deckel: Edelstahl 1.4404
Flansche¹: Edelstahl 1.4571
met. Innenteile: Edelstahl 1.4404
Dichtungen: PTFE

EINBAULAGE

Beliebig, Durchflussrichtung beachten.

Alle Angaben sind freibleibend und unverbindlich.

Specification

DESIGN

- Two-parts screwed body design
- high-quality seat seal made of PTFE
 - also available according to directive 1935/2004/EC
 - with control cone usable as manually operated control valve (option)

OPERATION

Rotation of the handwheel.

CONNECTION

- Female thread
 - 1/2" ... 3" acc. to ISO 228
 - 1/2" ... 2" NPT acc. to ASME B1 20.1
- Welded connection
 - DN15 ... DN50 acc. to DIN 3239
 - DN15 ... DN80 acc. to ISO 4200
 - DN15 ... DN80 acc. to DIN 11850 row 2
- Flanged connection
 - DN 15 ... DN 50 acc. to EN 1092-1 / PN40 (welded)

PRESSURE RANGE

Almost vacuum up to nominal pressure up to +80°C. For higher temperatures please refer to the Pressure-Temperature-Diagram.
PN40/16: with flanged connection
PN40: with threaded or welded connection

TEMPERATURE RANGE

-20°C ... +180°C
Steam only after request!

MATERIALS

Body: Stainless steel AISI 316
Cap: Stainless steel AISI 316L
Flanges¹: Stainless steel AISI 316Ti
met. internal parts: Stainless steel AISI 316L
Seals: PTFE

MOUNTING

As desired, please refer to the flow direction

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Artikel:

AE

Schrägsitzventil
PN16 ... PN40

Edelstahl



Type:

AE

Angle seat valve
PN16 ... PN40

Stainless steel



¹ Nur bei Ventilen mit Flanschanschluss / only at valves with flanged connection



Artikel- u. Bestellungenaben: z.B. AE311025

= Schrägsitzventil, Edelstahl / PTFE, Innengewinde G1"

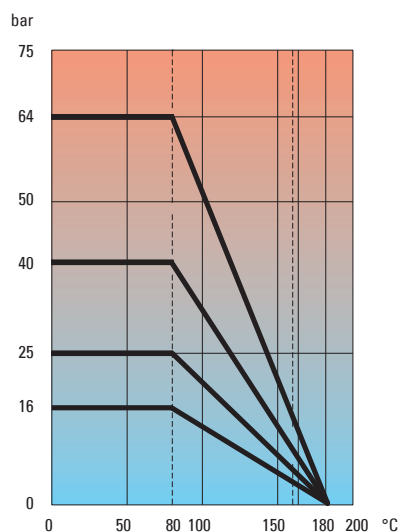
| 1.+ 2. Stelle Produkt | 3.+ 4. Stelle Werkstoffe Gehäuse / Dichtung | 5.+ 6. Stelle Betätigung | 7.+ 8. Stelle Anschlussgröße | | | | |
|--|---|-----------------------------|--|------------------|---------------|-------------------------------|------------|
| AE = Schrägsitzventil | 31 = Edelstahl / PTFE | 10 = Handrad | Flansche EN 1092-1 / PN40 | Gewinde | | Anschweißenden DIN EN 3239 | |
| | | | 02 = DN 15 | ISO228 23 = 1/2" | NPT 53 = 1/2" | | 62 = DN 15 |
| | | | 03 = DN 20 | 24 = 3/4" | 54 = 3/4" | | 63 = DN 20 |
| | | | 04 = DN 25 | 25 = 1" | 55 = 1" | | 64 = DN 25 |
| | | | 05 = DN 32 | 26 = 1 1/4" | 56 = 1 1/4" | | 65 = DN 32 |
| | | | 06 = DN 40 | 27 = 1 1/2" | 57 = 1 1/2" | | 66 = DN 40 |
| | | | 07 = DN 50 | 28 = 2" | 58 = 2" | | 67 = DN 50 |
| | | | 08 = DN 65/ PN16 | 29 = 2 1/2" | | | 68 = DN 65 |
| | | | 09 = DN 80/ PN16 | 30 = 3" | | | 69 = DN 80 |
| | | | 9. - 13. Stelle Anschweißenden | | | | |
| /L = Anschweißenden nach ISO 4200 | | | | | | | |
| /M = Anschweißenden nach DIN 11850 Reihe 2 | | | | | | | |
| /RK = mit Regelkegel | | | | | | | |
| /L-RK = mit Regelkegel und Anschweißenden nach ISO 4200 | | | | | | | |
| /M-RK = mit Regelkegel und Anschweißenden nach DIN 11850 Reihe 2 | | | | | | | |

Ordering example: e.g. AE311025

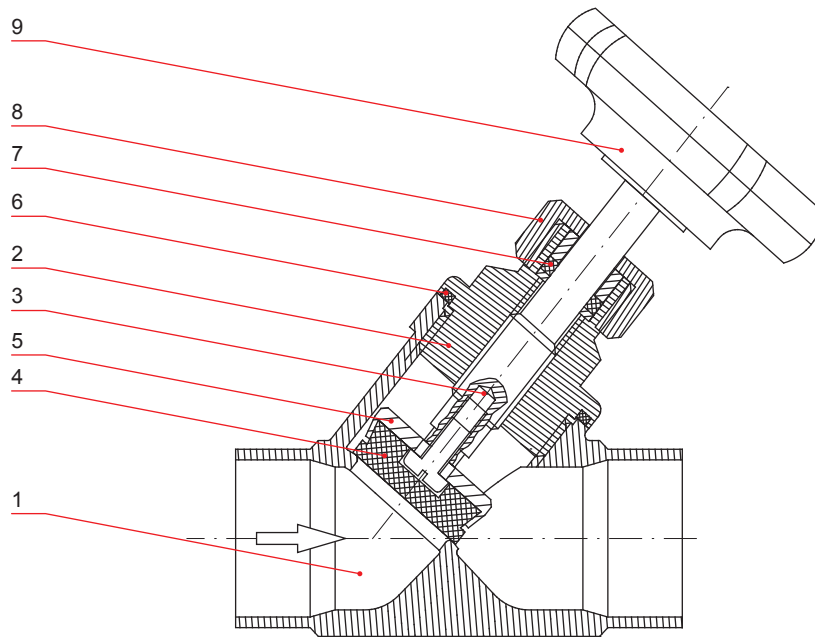
= Angle seat valve, stainless steel / PTFE, female thread, G1"

| 1.+ 2. Digit Product | 3.+ 4. Digit Materials Body / Seals | 5.+ 6. Digit Operation | 7.+ 8. Digit Connection size | | | | |
|--|---|---------------------------|---|---------------------|---------------|----------------------------------|------------|
| AE = Angle seat valve | 31 = Stainless steel / PTFE | 10 = Hand wheel | Flanged connection EN 1092-1 / PN16 | threaded connection | | welded connection DIN EN 3239 | |
| | | | 02 = DN 15 | ISO228 23 = 1/2" | NPT 53 = 1/2" | | 62 = DN 15 |
| | | | 03 = DN 20 | 24 = 3/4" | 54 = 3/4" | | 63 = DN 20 |
| | | | 04 = DN 25 | 25 = 1" | 55 = 1" | | 64 = DN 25 |
| | | | 05 = DN 32 | 26 = 1 1/4" | 56 = 1 1/4" | | 65 = DN 32 |
| | | | 06 = DN 40 | 27 = 1 1/2" | 57 = 1 1/2" | | 66 = DN 40 |
| | | | 07 = DN 50 | 28 = 2" | 58 = 2" | | 67 = DN 50 |
| | | | 08 = DN 65/ PN16 | 29 = 2 1/2" | | | 68 = DN 65 |
| | | | 09 = DN 80/ PN16 | 30 = 3" | | | 69 = DN 80 |
| | | | 9. - 13. Digit Welded connection type | | | | |
| /L = welded connection acc. to ISO 4200 | | | | | | | |
| /M = welded connection acc. to DIN 11850 part 2 | | | | | | | |
| /RK = with control cone | | | | | | | |
| /L-RK = with control cone and welded connection acc. to ISO 4200 | | | | | | | |
| /M-RK = with control cone and welded connection acc. to DIN 11850 part 2 | | | | | | | |

Druck-Temperatur-Diagramm / Pressure-Temperature-Diagram



Stückliste / Parts list

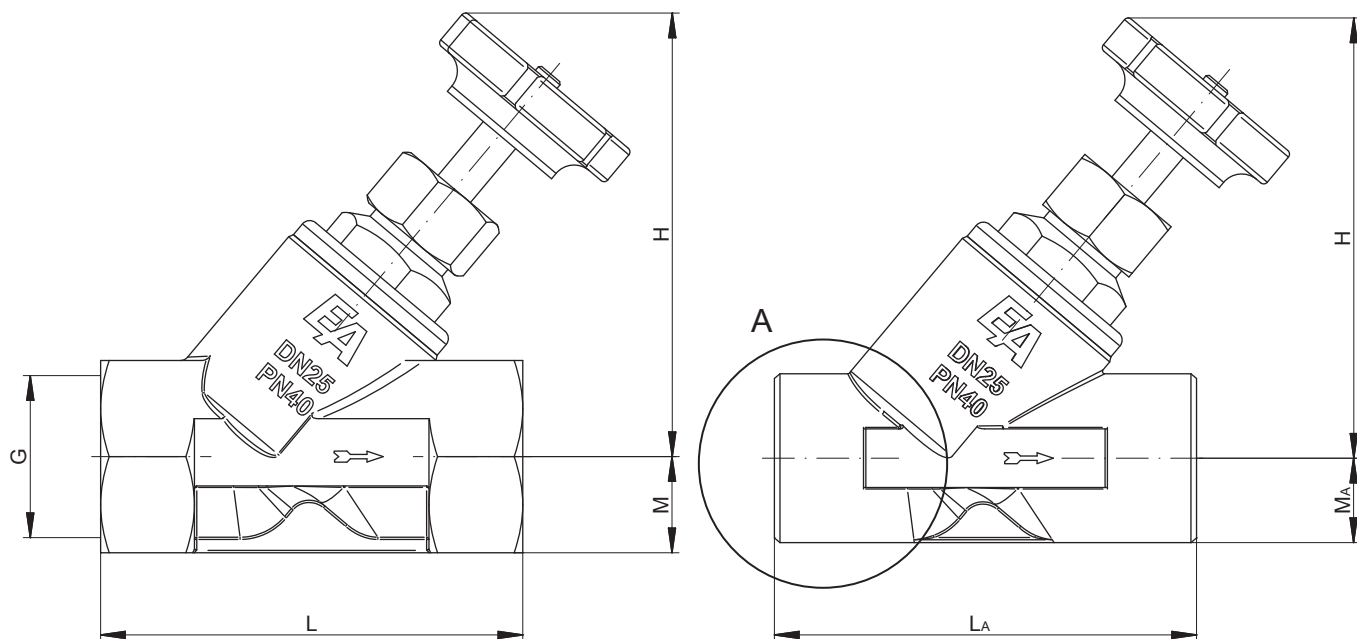


| Pos. | Bezeichnung | Description | Material | Material |
|-----------------|-----------------|---------------|-----------------|-----------------------|
| 1 | Gehäuse | Body | Edelstahl | Stainless steel |
| 2 | Einschraubteil | Screw joint | Edelstahl | Stainless steel |
| 3* | Spindel | Stem | Edelstahl | Stainless steel |
| 4* ² | Sitzdichtung | Seat seals | PTFE | PTFE |
| 5* | Ventilteller | Valve disc | Edelstahl | Stainless steel |
| 6 | Gehäusedichtung | Body seal | PTFE | PTFE |
| 7* | Packung | Gland packing | Edelstahl, PTFE | Stainless steel, PTFE |
| 8 | Sechskantmutter | Hexagon nut | Edelstahl | Stainless steel |
| 9* | Handrad | Hand wheel | Kunststoff | Plastic |

² Mit * gekennzeichnete Positionen sind als Ersatzteile auf Anfrage erhältlich.
 Bitte beachten: Die Teile der Positionen 3 ... 5 sind nur vormontiert als eine Einheit erhältlich! /
 With * marked parts are available as spare parts.
 Please observe: The parts No. 3 ... 5 are only available completely mounted as one component!



Abmessungen für Ventile mit Gewinde oder Anschweißenden / Dimensions for valves with threaded or welded connection

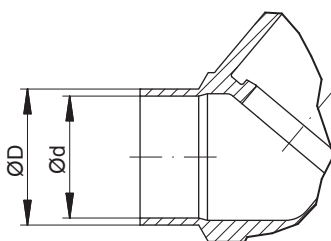
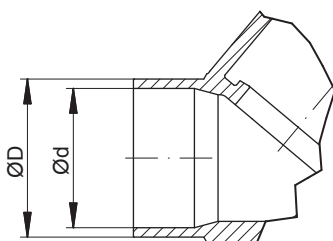
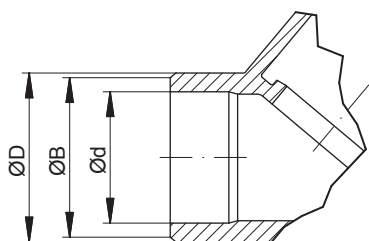


Detail A

Anschweißenden DIN 3239
welding end DIN 3239

Anschweißenden ISO 4200
welding end ISO 4200

Anschweißenden DIN 11850-2 /
welding end DIN 11850-2

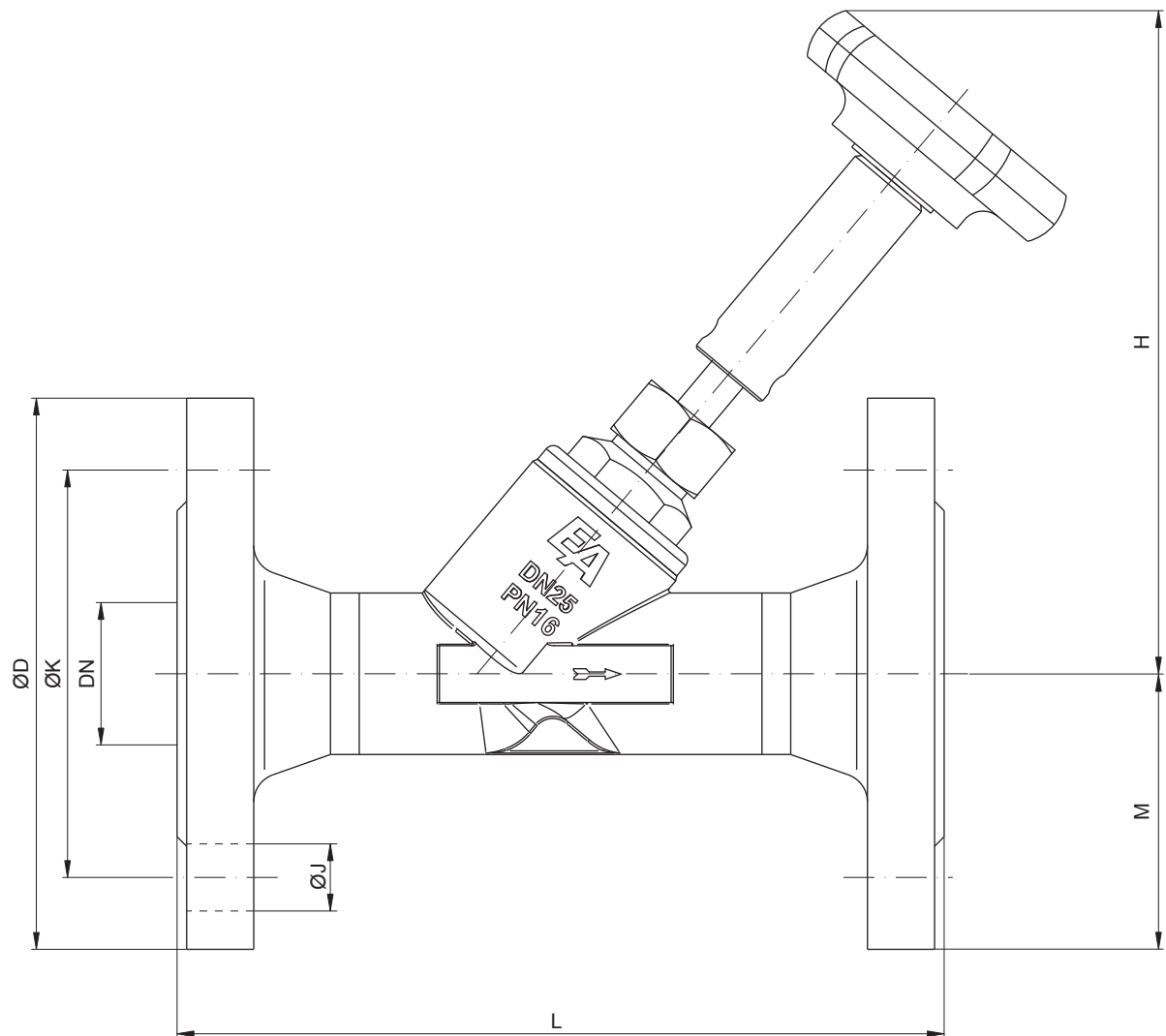


| G | DN | M | MA | L | LA | H | Kv ³ | DIN 3239 | | | ISO 4200 | | DIN 11850-2 | |
|----|----|------|------|-----|-----|-----|-----------------|----------|----|----|----------|------|-------------|----|
| | | | | | | | | ØD | ØB | Ød | ØD | Ød | ØD | Ød |
| ½ | 15 | 13,5 | 12,3 | 65 | 65 | 97 | 4,6 | 24 | 22 | 17 | 21,3 | 18,1 | 19 | 16 |
| ¾ | 20 | 16,0 | 15,0 | 75 | 75 | 110 | 9,5 | 30 | 28 | 22 | 26,9 | 23,7 | 23 | 20 |
| 1 | 25 | 20,5 | 18,0 | 90 | 90 | 117 | 13,5 | 36 | 34 | 28 | 33,7 | 29,7 | 29 | 26 |
| 1¼ | 32 | 25,0 | 23,0 | 110 | 110 | 138 | 29 | 45 | 41 | 35 | 42,4 | 38,4 | 35 | 32 |
| 1½ | 40 | 28,0 | 26,5 | 120 | 120 | 150 | 40 | 52 | 49 | 43 | 48,3 | 44,3 | 41 | 38 |
| 2 | 50 | 35,0 | 33,5 | 150 | 150 | 168 | 62 | 65 | 61 | 54 | 60,3 | 55,1 | 53 | 50 |
| 2½ | 65 | 42,5 | 42,5 | 180 | 205 | 195 | 85 | - | - | - | 76,1 | 70,3 | 70 | 66 |
| 3 | 80 | 50,0 | 50,0 | 200 | 220 | 205 | 120 | - | - | - | 88,9 | 83,1 | 85 | 81 |

³ Kv-Wert mit Standardventilteller, angegeben in m³/h bei Δp = 1bar / Kv-value with standard valve disc, stated in m³/h at Δp = 1bar



**Abmessungen für Ventile mit Flansch PN16 /
Dimensions for valves with flanged connection PN16**



| DN | M | L | H | Kv ⁴ | EN 1092-1 / DN15- 50/ PN40, DN65+80/ PN16 | | |
|----|------|-----|-------|-----------------|---|-----|---------------------|
| | | | | | ØD | ØK | n x ØJ |
| 15 | 47,5 | 130 | 132,5 | 4,6 | 95 | 65 | 4 x 14 |
| 20 | 52,5 | 150 | 147,5 | 9,5 | 105 | 75 | 4 x 14 |
| 25 | 57,5 | 160 | 152,5 | 13,5 | 115 | 85 | 4 x 14 |
| 32 | 70 | 180 | 175 | 29 | 140 | 100 | 4 x 18 |
| 40 | 75 | 200 | 185 | 40 | 150 | 110 | 4 x 18 |
| 50 | 82,5 | 230 | 197,5 | 62 | 165 | 125 | 4 x 18 |
| 65 | 92,5 | 290 | 197,5 | 85 | 185 | 145 | 4 x 18 ⁵ |
| 80 | 100 | 310 | 205 | 120 | 200 | 160 | 8 x 18 |

⁴ Kv-Wert mit Standardventilteller, angegeben in m³/h bei Δp = 1bar / Kv-value with standard valve disc, stated in m³/h at Δp = 1bar

⁵ Ventile DN65 werden in 4-Loch-Ausführung geliefert! / Valves DN65 will be delivered in 4-hole execution!

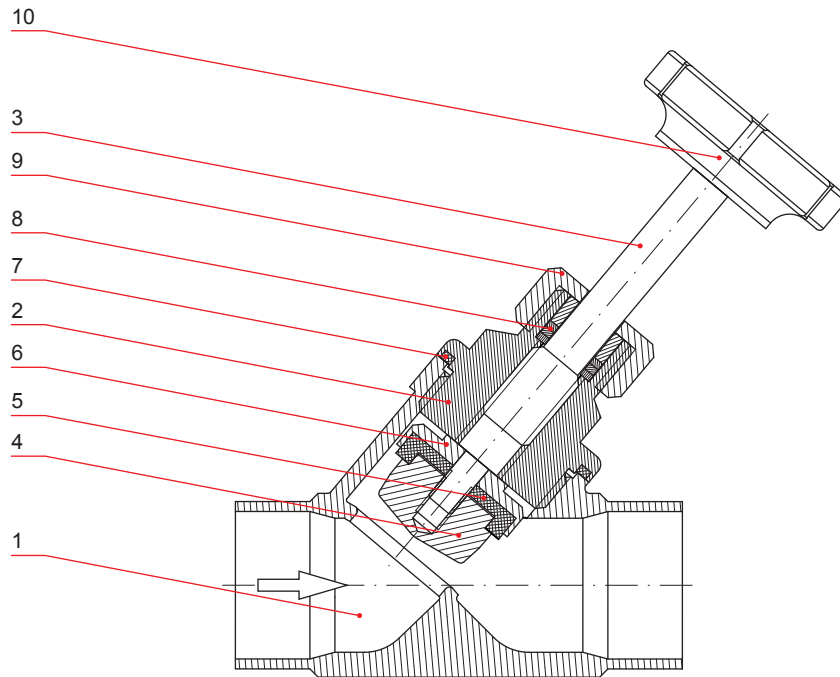


Regelkegel (Option) / Control cone (option)

Um das Schrägsitzventil Art. **AE3110xx** als handbetätigtes Regelventil einzusetzen, bieten wir die Option "Regelkegel" an. Hierbei wird der Ventilteller durch einen präzise ausgeführten Regelkegel mit gleichprozentiger Kennlinie ersetzt.
Die angegebenen Kv-Wert beziehen sich auf ein vollständig geöffnetes Ventil.

To use the angle seat valve Art. **AE3110xx** as a manually operated control valve, we offer the option "control cone". Here, the valve disk is replaced by a precisely executed control cone with equal-percent characteristic.
The indicated Kv-value relating to a fully open valve.

Stückliste für Ventile mit Regelkegel (Option) / Parts list for valves with control cone (option)



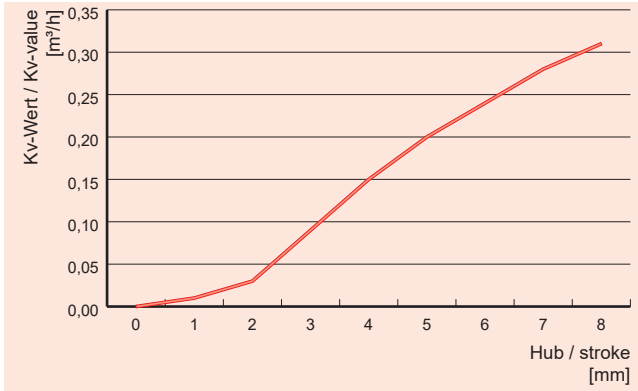
| Pos. | Bezeichnung | Description | Material | Material |
|----------------|-----------------|---------------|-----------------|-----------------------|
| 1 | Gehäuse | Body | Edelstahl | Stainless steel |
| 2 | Einschraubteil | Screw joint | Edelstahl | Stainless steel |
| 3 | Spindel | Stem | Edelstahl | Stainless steel |
| 4 | Regelkegel | Control cone | Edelstahl | Stainless steel |
| 5 ⁶ | Sitzdichtung | Seat seals | PTFE | PTFE |
| 6 | Ventilteller | Valve disc | Edelstahl | Stainless steel |
| 7* | Gehäusedichtung | Body seal | PTFE | PTFE |
| 8* | Packung | Gland packing | Edelstahl, PTFE | Stainless steel, PTFE |
| 9 | Sechskantmutter | Hexagon nut | Edelstahl | Stainless steel |
| 10* | Handrad | Hand wheel | Kunststoff | Plastic |

⁶ Mit * gekennzeichnete Positionen sind als Ersatzteile auf Anfrage erhältlich. /
With * marked parts are available as spare parts.

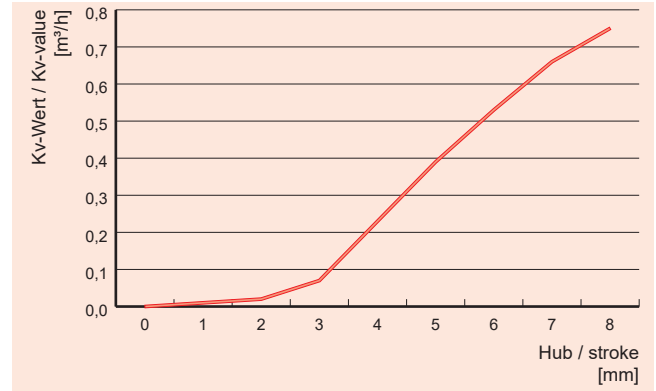


Kv-Werte⁷ für Ventile mit Regelkegel (Option) / Kv-value⁷ for valves with control cone (option)

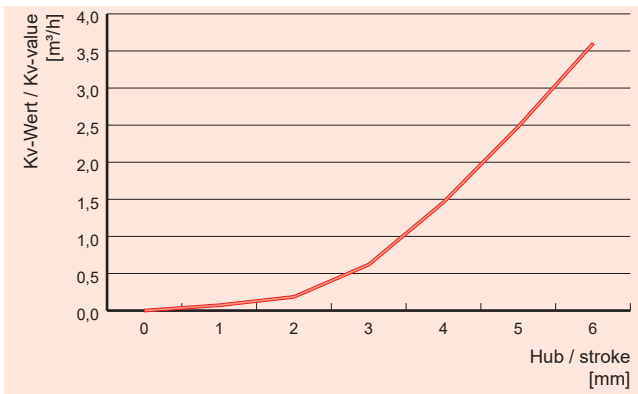
G½", DN15 - Kv-Wert / Kv-value: 0,31m³/h



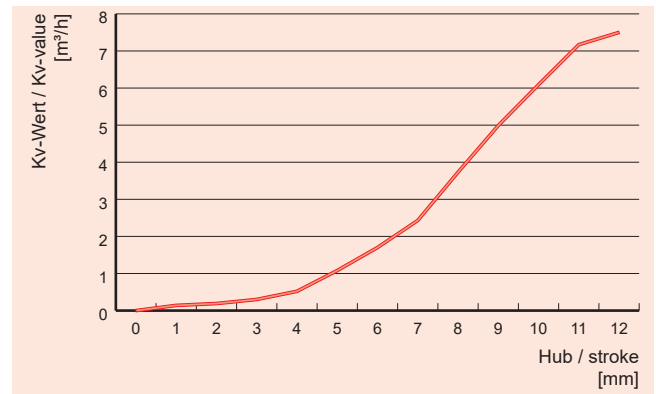
G½", DN15 - Kv-Wert / Kv-value: 0,75m³/h



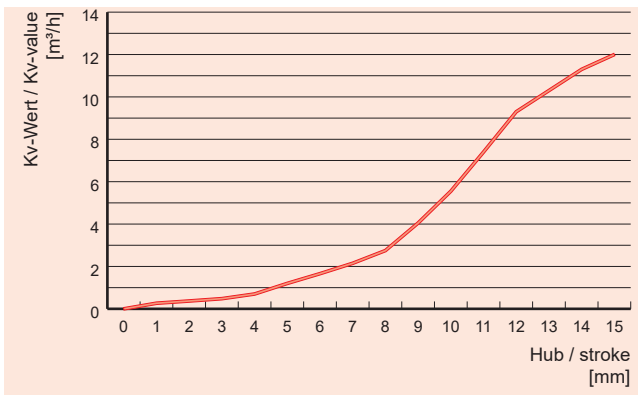
G½", DN15 - Kv-Wert / Kv-value: 3,6m³/h



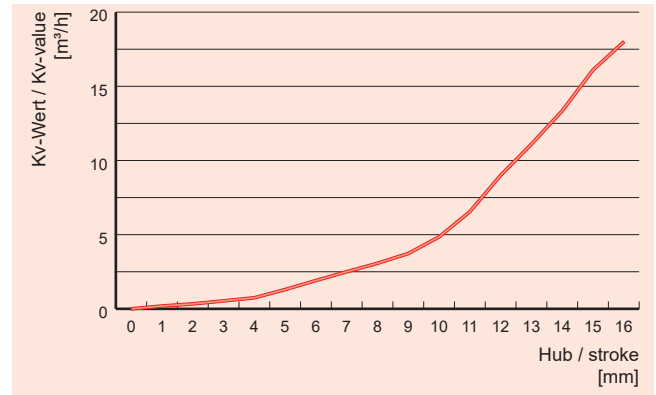
G¾", DN20 - Kv-Wert / Kv-value: 7,5m³/h



G1", DN25 - Kv-Wert / Kv-value: 12,0m³/h



G1¼", DN32 - Kv-Wert / Kv-value: 18,0m³/h

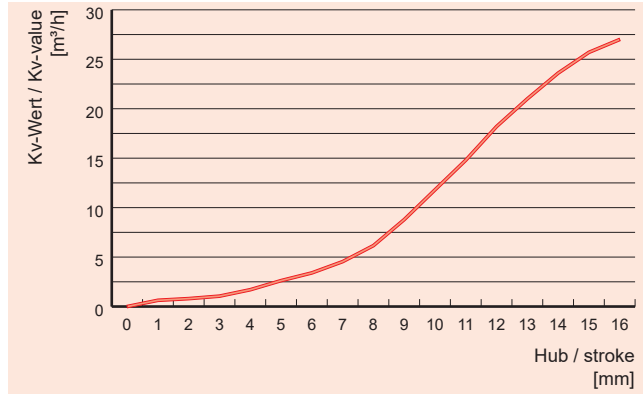


⁷ Kv-Wert mit Regelkegel (Option), Ventil vollständig geöffnet, angegeben in m³/h bei Δp = 1bar / Kv-value with control cone (option), valve fully open, stated in m³/h at Δp = 1bar

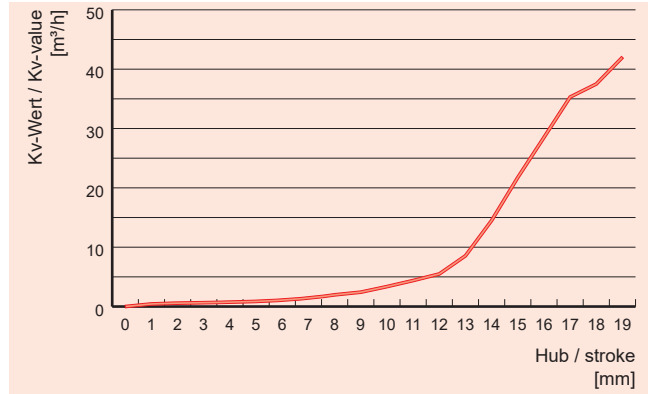


Kv-Werte⁷ für Ventile mit Regelkegel (Option) / Kv-value⁷ for valves with control cone (option)

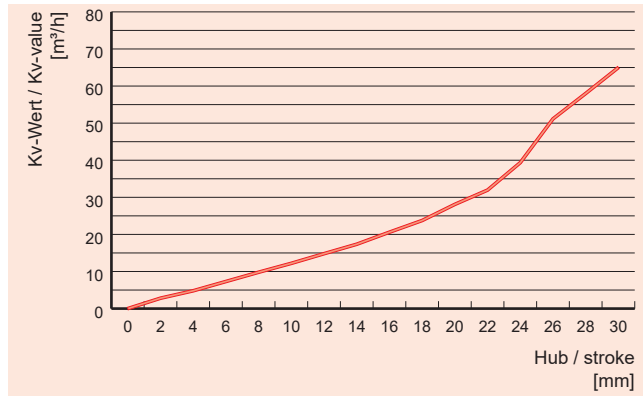
G1½", DN40 - Kv-Wert / Kv-value: 27,0m³/h



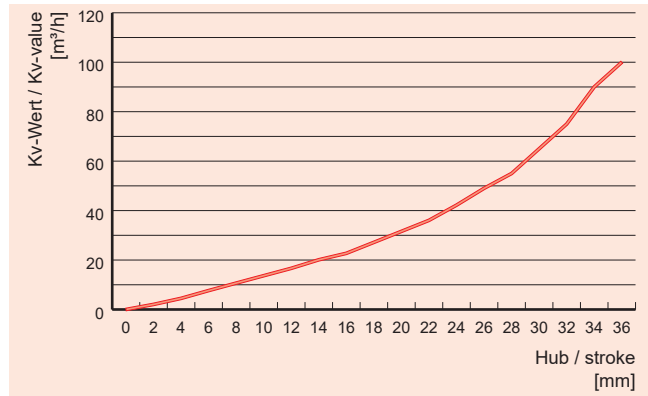
G2", DN50 - Kv-Wert / Kv-value: 42,0m³/h



G2½", DN65 - Kv-Wert / Kv-value: 65,0m³/h



G3", DN80 - Kv-Wert / Kv-value: 100m³/h



⁷ Kv-Wert mit Regelkegel (Option), Ventil vollständig geöffnet, angegeben in m³/h bei $\Delta p = 1 \text{ bar}$ / Kv-value with control cone (option), valve fully open, stated in m³/h at $\Delta p = 1 \text{ bar}$



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