

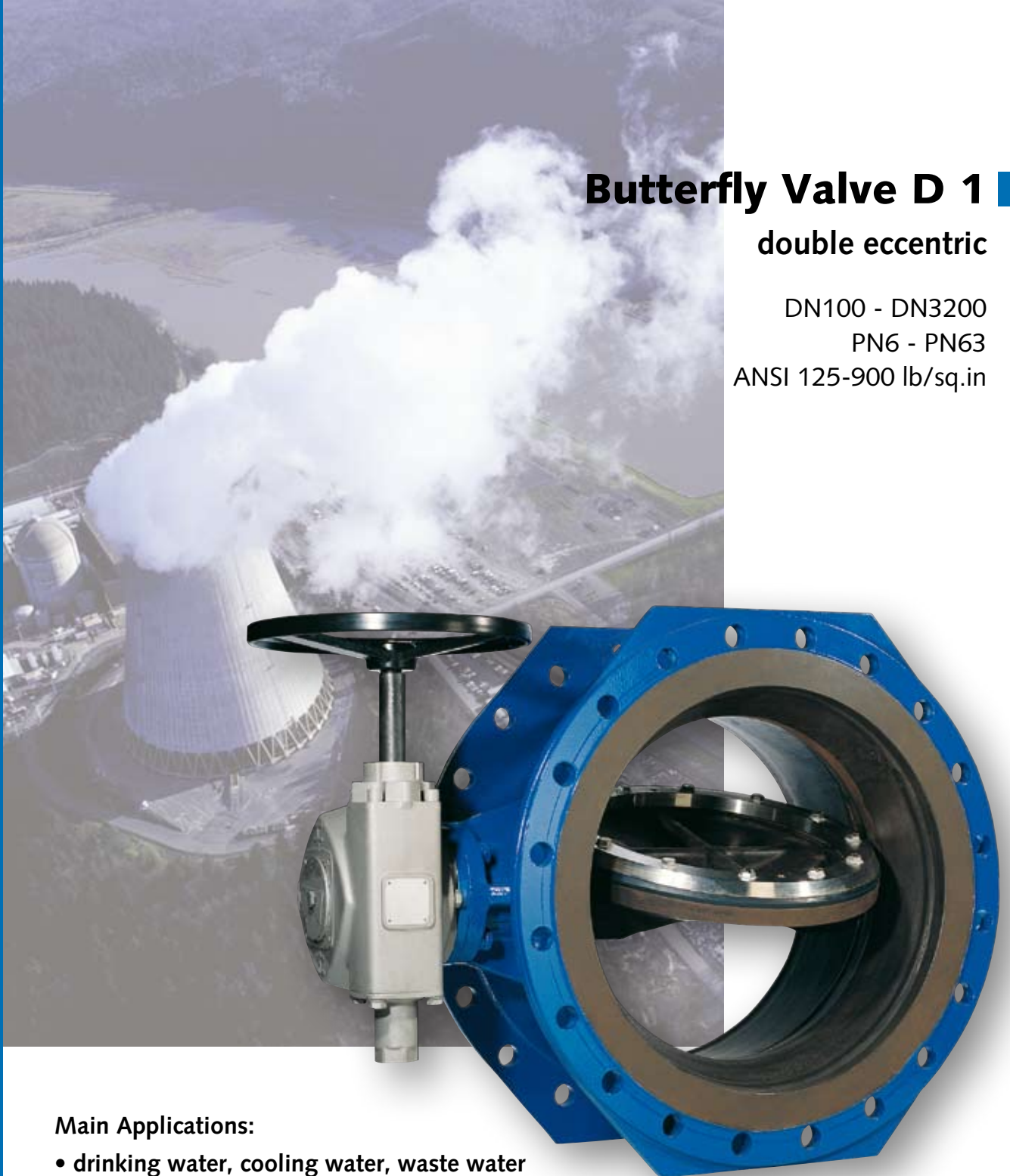
# Butterfly Valve D 1

double eccentric

DN100 - DN3200

PN6 - PN63

ANSI 125-900 lb/sq.in



## Main Applications:

- **drinking water, cooling water, waste water**  
also corrosive and with solids contents
  - **corrosive fluids**  
acids or alkalic solutions
  - **hot water**  
and other neutral fluids
- up to 63 bar/130°C

## Design Features:

- high duty resilient seat seal
- perfect protection against corrosion
- high endurance, no maintenance required



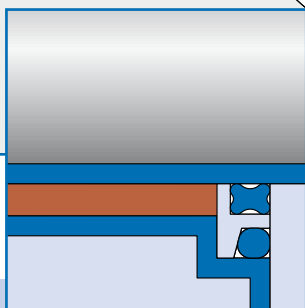
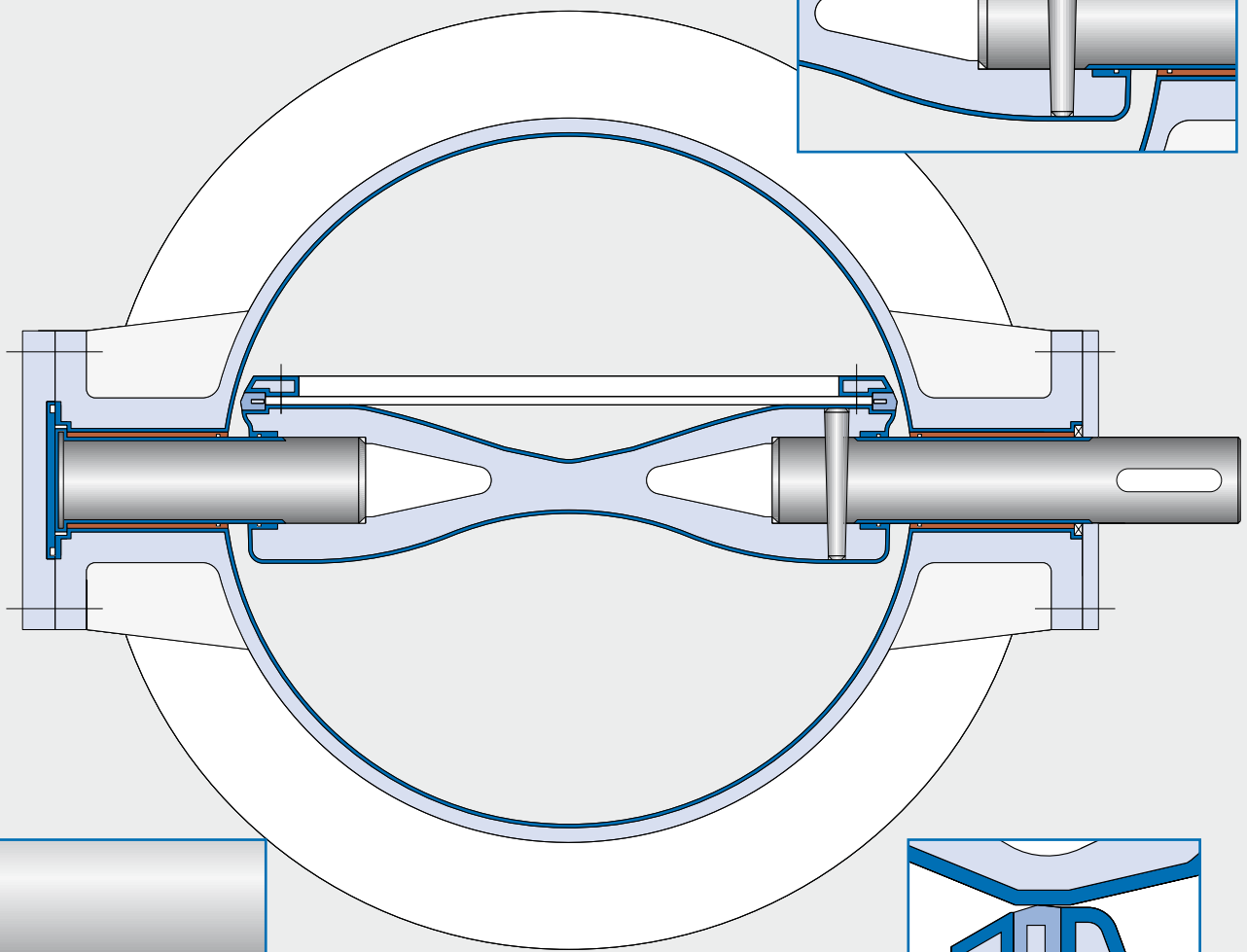
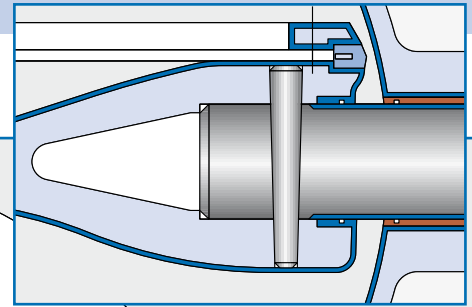
**S+S** *Armaturen GmbH*  
FABRICATION | SALES | SERVICE

### Standard: All internal surfaces hard rubber lined.

- All ferritic materials are hard rubber lined with  $3\pm 0,3\text{mm}$  hard rubber type NR31-01
- Type D1[ ]a. All internal surfaces in contact with the media are hard rubber lined incl. body, body axle, disc, disc axle, shaft, trunnion, cover
- Type D1[ ]b. All internal surfaces in contact with the media are hard rubber lined incl. body, body axle, disc, disc axle. Functional parts high alloyed, as per media requirement or customer specification

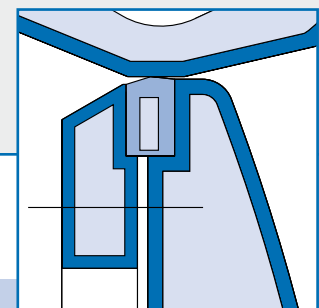
### Shaft connection without clearance

- conic pin connection out of stainless steel instead of fitting key
- perfect for high flow velocity and for control service
- keeps the disc without vibration in open or any intermediate position



### No maintenance for shaft seal unit

- separate rings for static and dynamic seal
- dynamic shaft seal ring completely chambered in corrosion resistant material



### High duty resilient seat seal

- precisely moulded rubber seal ring, steel-reinforced and exactly adjusted to the design pressure
- low wear due to double excentric seat geometry
- extremely form stable and tight even under highest differential pressures or flow velocities.

# Butterfly Valve D 1

## Materials

Item	Standards	Alternatives
body and disc	GGG40/50 or fabricated steel	GGG40/50, stainless 18/8Cr/Ni, bronze or Ni-alloy
body, seat and disc lining	NR (hard rubber)	enamel, epoxy, without lining, stainless steel
resilient seat seal	EPDM	NBR, IIR, CSM, FPM
shaft	hard rubberlined	stainless Cr/Ni-alloy, bronze or Ni-alloy

## Internal Corrosion Protection

Type D 1□a:	All inside surfaces rubberlined (= standard)
Type D 1□b:	Body rubberlined, functional parts Cr/Ni-, Ni- or copper-alloy
Type D 1□c:	Body and disc Cr/Ni-, Ni-alloy or copper-alloy
Type D 1□e:	Inside surfaces lined with enamel
Type D 1□k:	Inside surfaces lined with epoxy (EKB)
Type D 1□u:	Body and disc not alloyed and without internal corrosion protection
Special:	acc. to customer specification

## External Corrosion Protection

Standard:	Shot blasted SA 21/2, 250µm fusion bonded epoxy (FBE)
Type D 1□e only:	Primer „Cermet®“, 250µm epoxy coated (FBE)
Special:	acc. to customer specification

## Standards for Supply

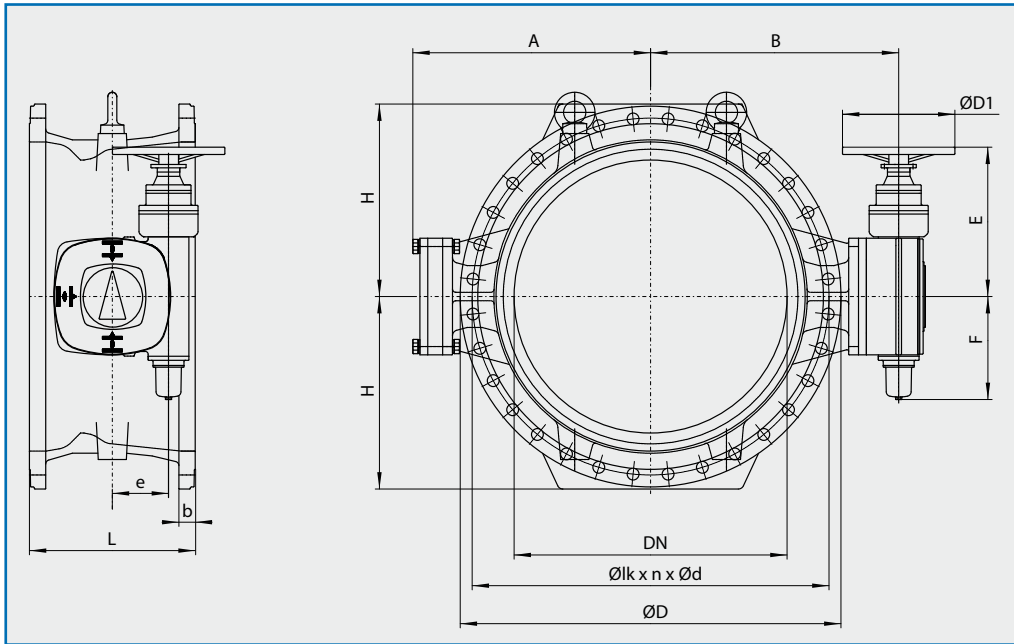
• delivery conditions:	DIN3354, DIN3230, final tests: AG, BA, BN (or API 598)
• face to face dimension:	DIN3202, F4 (flanged), S4, S5 (butt weld ends), K3(wafer)
• flange connection:	DIN2501, PN6-PN63, ANSI 150-900 lb/sq.in or AWWA
• rubber materials:	ASTM D1418

## Actuators and Type Code: D

1 body flanged	3 with electric actuator	a all inside parts rubberlined
4 butt-weld ends	4 with pneumatic actuator	b rubberlined / high alloyed
5 wafer type	5 see 4, with spring to open	c valve high alloyed
-	6 see 4, with spring to close	e inside surfaces enamel lined
-	8 with square head at the gearbox	k inside surfaces epoxy lined (FBE)
-	9 with handwheel	u inside surfaces not protected

# Absperrklappe D 19/PN10

## Butterfly Valve D 19/PN10



p = Betriebsdruck [bar]  
p = working pressure [bar]

### Typ D 19: mit Getriebe und Handrad / with gearbox and handwheel PN10 p = 10 bar

DN	100	150	200	250	300	350	400	500	600	700	800	900	1000	1200	1400	1600	1800
L	190	210	230	250	270	290	310	350	390	430	470	510	550	630	710	790	870
ØD	220	285	340	395	445	505	565	670	780	895	1025	1125	1255	1485	1685	1930	2130
b	19	19	20	22	25	27	28	32	36	36	48	44	46	52	58	64	68
A	110	143	170	203	230	260	290	310	560	620	690	715	845	1020	1210	1350	1570
B	130	165	190	220	260	285	320	380	570	640	710	730	890	1040	1250	1400	1650
H	110	145	170	205	230	260	290	360	420	455	550	570	667	775	885	995	1105
Øk	180	240	295	350	400	460	515	620	725	840	950	1050	1160	1380	1590	1820	2020
n	8	8	8	12	12	16	16	20	20	24	24	28	28	32	36	40	44
Ød	18	22	22	22	22	22	26	26	30	30	33	33	36	39	42	48	48
e	50	50	63	63	63	80	100	125	125	125	160	160	200	200	250	315	315
F	96	96	128	128	128	133	187	192	192	192	290	290	370	370	402	550	550
E	140	140	165	165	165	186	246	251	251	251	396	535	526	526	581	738	738
ØD1	160	160	250	250	315	315	315	500	500	500	315	315	315	315	315	500	500

### Typ D 19/PN10: Gewicht (kg) ca. / weight (kg) appr.

DN	100	150	200	250	300	350	400	500	600	700	800	900	1000	1200	1400	1600	1800
G	35	43	55	100	125	180	210	370	600	680	1025	1350	1900	2800	4300	6100	7500

### Getriebe / gearbox

Maße für Getriebe AUMA-GS  
Dimensions for gearbox AUMA-GS



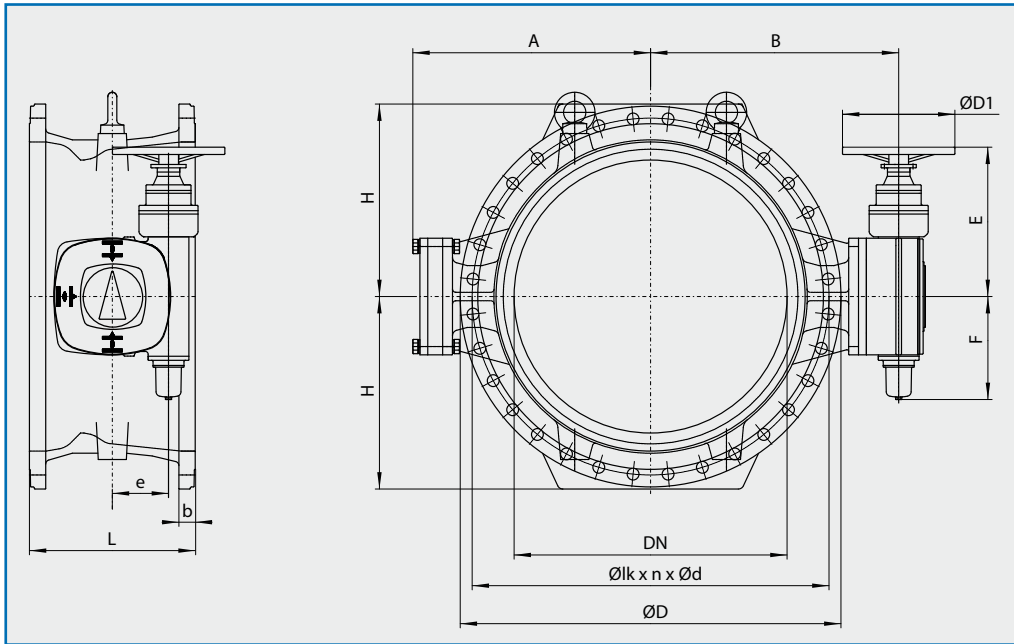
Maßblatt  
**D 19/PN10**  
Rev. 4 / 17.12.2008

**S+S Armaturen GmbH**  
FABRICATION | SALES | SERVICE

S+S Armaturen GmbH • Unterbüscherhof 29 • 42799 Leichlingen, Germany  
Phone: +49 -21 74 -78 47 -0 • Fax: +49 -21 74 -78 47 -28  
info@sus-armaturen.de • www.sus-armaturen.de

# Absperrklappe D 19/PN16

## Butterfly Valve D 19/PN16



**p = Betriebsdruck [bar]**  
**p = working pressure [bar]**

### Typ D 19: mit Getrieb und Handrad / with gearbox and handwheel PN16 p = 16 bar

DN	100	150	200	250	300	350	400	500	600	700	800	900	1000	1200	1400	1600	1800
L	190	210	230	250	270	290	310	350	390	430	470	510	550	630	710	790	870
ØD	220	285	340	405	460	520	580	715	840	910	1025	1125	1255	1485	1685	1930	2130
b	19	19	20	22	25	27	28	32	36	36	48	44	46	52	58	64	68
A	110	143	170	203	230	260	290	310	560	620	690	715	845	1020	1210	1350	1570
B	130	165	190	220	260	285	320	380	570	640	710	730	890	1040	1250	1400	1650
H	110	145	170	205	230	260	290	360	420	455	550	570	667	775	885	995	1105
Øk	180	240	295	355	410	470	525	650	770	840	950	1050	1170	1390	1590	1820	2020
n	8	8	12	12	12	16	16	20	20	24	24	28	28	32	36	40	44
Ød	18	22	24	26	28	30	32	33	36	36	39	40	42	48	48	56	56
e	50	50	63	63	63	80	100	125	125	125	160	160	200	250	250	315	315
F	96	96	128	128	128	133	187	192	192	192	290	290	370	402	402	550	550
E	140	140	165	165	165	186	246	251	251	251	396	535	526	581	581	738	738
ØD1	160	160	250	250	315	315	315	500	500	500	315	315	315	315	315	500	500

### Typ D 19/PN16: Gewicht (kg) ca. / weight (kg) appr.

DN	100	150	200	250	300	350	400	500	600	700	800	900	1000	1200	1400	1600	1800
G	35	43	55	100	125	180	210	370	600	680	1025	1350	1900	2930	4300	6100	7500

### Getriebe / gearbox

Maße für Getriebe AUMA-GS  
 Dimensions for gearbox AUMA-GS



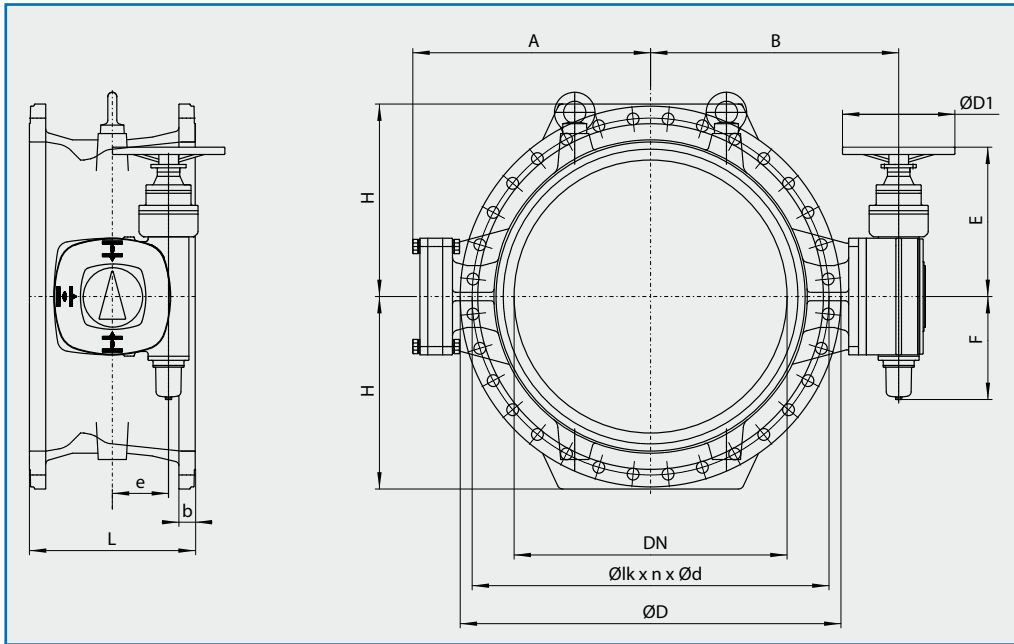
Maßblatt  
**D 19/PN16**  
 Rev. 4 / 17.12.2008

**S+S Armaturen GmbH**  
 FABRICATION | SALES | SERVICE

S+S Armaturen GmbH • Unterbüscherhof 29 • 42799 Leichlingen, Germany  
 Phone: +49 -21 74 -78 47 -0 • Fax: +49 -21 74 -78 47 -28  
 info@sus-armaturen.de • www.sus-armaturen.de

# Absperrklappe D 19/PN25

## Butterfly Valve D 19/PN25



p = Betriebsdruck [bar]  
p = working pressure [bar]

### Typ D 19: mit Getrieb und Handrad / with gearbox and handwheel PN25 p = 25 bar

DN	100	150	200	250	300	350	400	500	600	700	800	900	1000	1200	1400	1600	1800
L	190	210	230	250	270	290	310	350	390	430	470	510	550	630	710	790	870
ØD	235	300	360	360	485	555	620	735	845	960	1085	1185	1320	1530	1755	1975	2195
b	18	20	30	25	28	30	36	37	42	47	58	58	66	70	80	88	98
A	150	220	270	300	310	380	440	480	560	620	690	790	890	1020	1210	1350	1570
B	180	260	300	330	370	410	450	490	570	640	710	830	900	1060	1250	1400	1650
H	110	145	170	205	230	260	290	360	420	455	550	570	667	775	885	995	1105
Øk	190	250	310	370	430	490	525	660	770	875	990	1090	1210	1420	1640	1860	2070
n	8	8	12	12	16	16	16	20	20	24	24	28	28	32	36	40	44
Ød	22	26	26	30	30	33	36	36	39	42	48	48	56	56	62	62	70
e	50	50	63	80	80	100	125	125	125	160	200	200	200	250	315	315	400
F	96	96	128	133	133	187	190	192	192	290	370	370	370	402	550	550	765
E	140	140	165	186	186	246	246	251	251	396	526	526	526	581	738	738	836
ØD1	160	160	250	315	315	315	315	500	500	315	315	315	315	315	500	500	500

### Typ D 19/PN25: Gewicht (kg) ca. / weight (kg) appr.

DN	100	150	200	250	300	350	400	500	600	700	800	900	1000	1200	1400	1600	1800
G	35	60	100	125	180	360	310	580	820	1060	1380	1660	2300	3500	5100	7250	11000

### Getriebe / gearbox

Maße für Getriebe AUMA-GS  
Dimensions for gearbox AUMA-GS



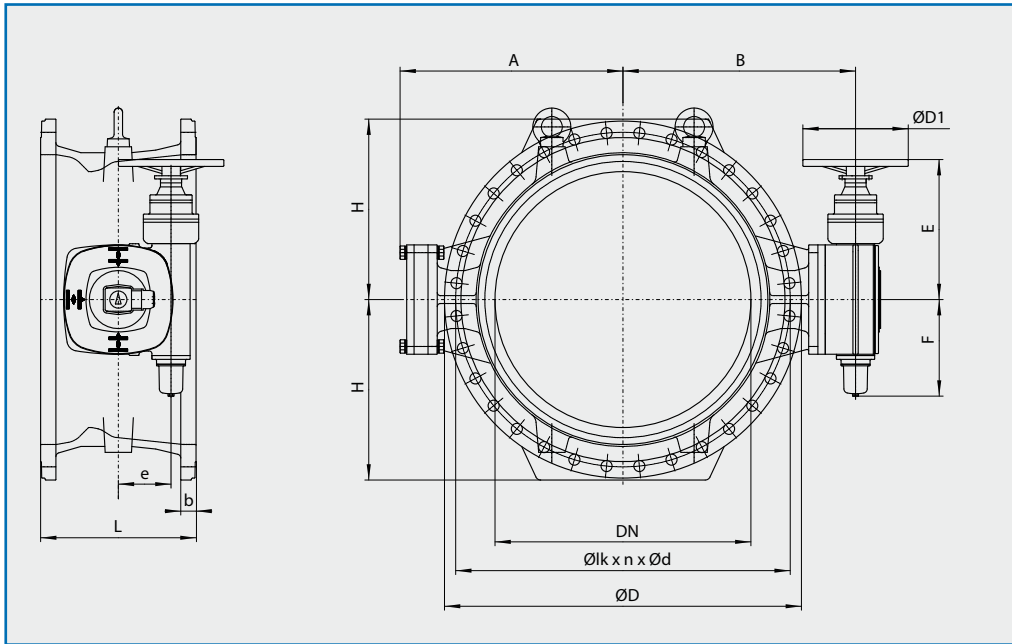
Maßblatt  
**D 19/PN25**  
Rev. 4 / 17.12.2008

**S+S Armaturen GmbH**  
FABRICATION | SALES | SERVICE

S+S Armaturen GmbH • Unterbüscherhof 29 • 42799 Leichlingen, Germany  
Phone: +49 -21 74 -78 47 -0 • Fax: +49 -21 74 -78 47 -28  
info@sus-armaturen.de • www.sus-armaturen.de

# Absperrklappe D 19/PN40

## Butterfly Valve D 19/PN40



p = Betriebsdruck [bar]  
p = working pressure [bar]

### Typ D 19: mit Getrieb und Handrad / with gearbox and handwheel PN40 p 40 bar

DN	100	125	150	200	250	300	350	400	500	600	700	800	900	1000	1200	1400	1600
L	190	200	210	230	250	270	290	310	350	390							
b	24	26	28	30	32	34	38	40	44	46							
B1	410	430	450	540	560	600	650	680	740	800							
B2	200	220	240	280	310	340	390	410	470	520							
H1	265	265	265	270	390	390	550	630	630	630							
T1	100	110	120	130	140	150	160	170	190	205							
T2	225	225	225	240	300	300	360	400	400	400							
X	470	490	530	620	640	690	740	790	870	990							

### Typ D 19/PN40: Gewicht (kg) ca. / weight (kg) appr.

DN	100	125	150	200	250	300	350	400	500	600	700	800	900	1000	1200	1400	1600
G																	

### Getriebe / gearbox

Maße für Getriebe AUMA-GS  
Dimensions for gearbox AUMA-GS



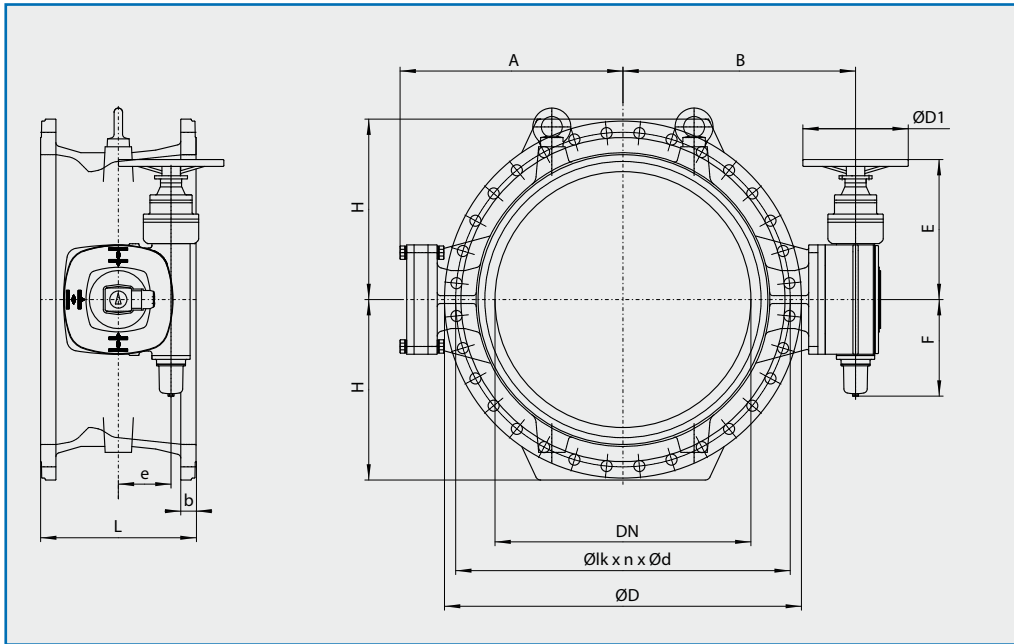
Maßblatt  
**D 19/PN40**  
Rev. 3 / 12.09.2008

**S+S Armaturen GmbH**  
FABRICATION | SALES | SERVICE

S+S Armaturen GmbH • Unterbüscherhof 29 • 42799 Leichlingen, Germany  
Phone: +49 -21 74 -78 47 -0 • Fax: +49 -21 74 -78 47 -28  
info@sus-armaturen.de • www.sus-armaturen.de

# Absperrklappe D 19/PN63

## Butterfly Valve D 19/PN63



p = Betriebsdruck [bar]  
p = working pressure [bar]

### Typ D 19: mit Getriebe und Handrad / with gearbox and handwheel PN63 p 50 bar

DN	100	125	150	200	250	300	350	400	500	600	700	800	900	1000	1200	1400	1600
L	190	200	210	230	250	270	290	310	350	390							
b	24	26	28	30	32	34	38	40	44	46							
B1	410	430	450	540	560	600	650	680	740	800							
B2	200	220	240	280	310	340	390	410	470	520							
H1	265	265	265	270	390	390	550	630	630	630							
T1	100	110	120	130	140	150	160	170	190	205							
T2	225	225	225	240	300	300	360	400	400	400							
X	470	490	530	620	640	690	740	790	870	990							

### Typ D 19/PN63: Gewicht (kg) ca. / weight (kg) appr.

DN	100	125	150	200	250	300	350	400	500	600	700	800	900	1000	1200	1400	1600
G																	

### Getriebe / gearbox

Maße für Getriebe AUMA-GS  
Dimensions for gearbox AUMA-GS



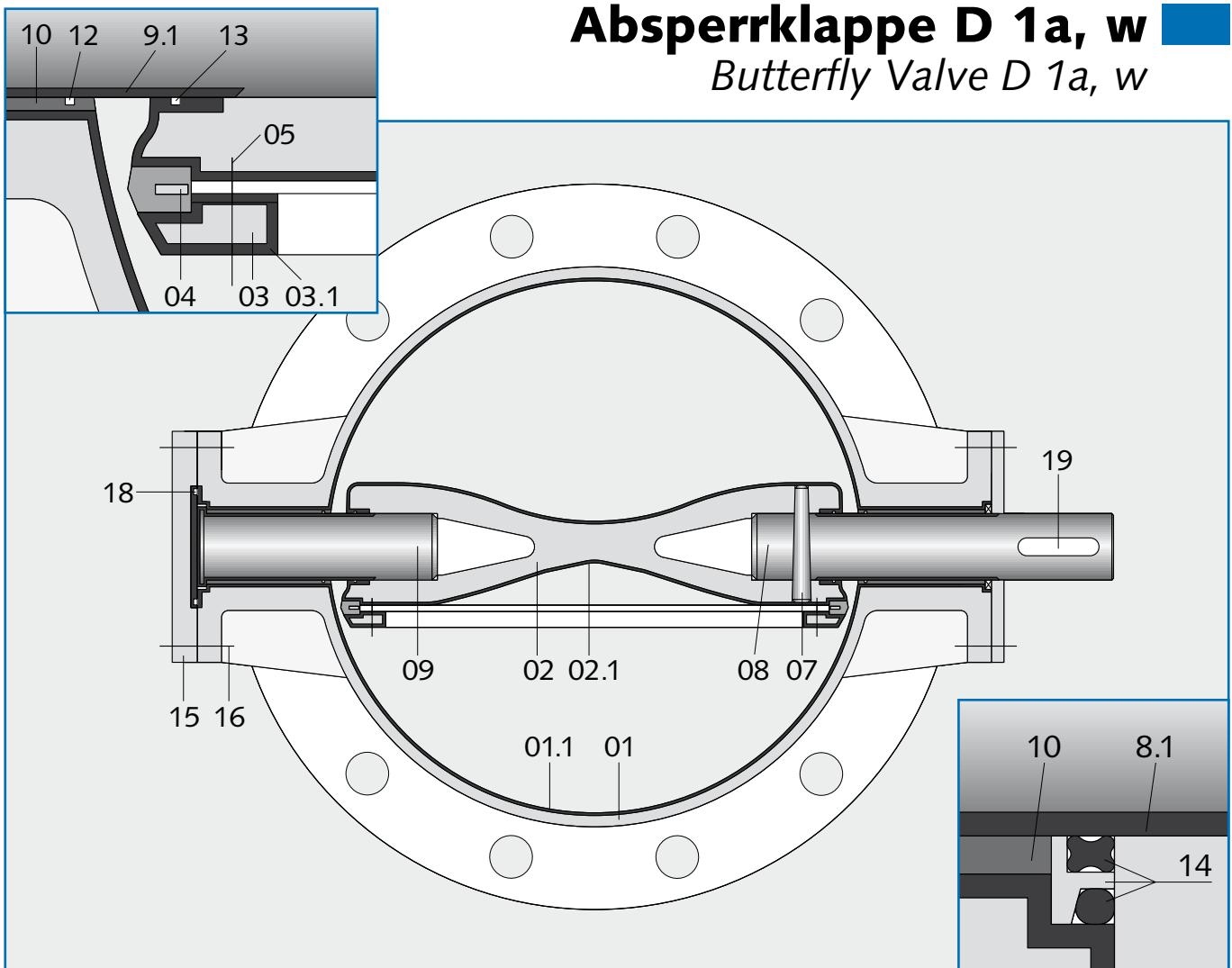
Maßblatt  
**D 19/PN63**  
Rev. 3 / 12.09.2008

**S+S Armaturen GmbH**  
FABRICATION | SALES | SERVICE

S+S Armaturen GmbH • Unterbüscherhof 29 • 42799 Leichlingen, Germany  
Phone: +49 -21 74 -78 47 -0 • Fax: +49 -21 74 -78 47 -28  
info@sus-armaturen.de • www.sus-armaturen.de

# Absperrklappe D 1a, w

## Butterfly Valve D 1a, w



Pos. Item	Benennung	Designation	Standard Typ D 1a Standard Typ D 1a	Standard Typ D 1w Standard Typ D 1w	Werkstoff-Alternative optional materials
01	Gehäuse	body	GGG40 / A536 60-14-18	GGG40 / A536 60-14-18	RSt37-2 / A283 Gr.C
1.1	Gehäuseauskleidung	body lining	NR (hardgummiert / hard)	CR (weichgummiert / soft)	
02	Klappenscheibe	disc	GGG40 / A536 60-14-18	GGG40 / A536 60-14-18	RSt 37-2 / A283 Gr.C
2.1	Beschichtung Scheibe	disc lining	NR (hardgummiert / hard)	CR (weichgummiert / soft)	
03	Haltering	seal compressor	St37 / A252	St37 / A252	1.4301/AISI 304, 1.4462/AISI 329
3.1	Beschichtung Haltering	compressor lining	NR (hardgummiert / hard)	CR (weichgummiert / soft)	nicht gummiert / not lined
04	• Dichtelement	sealing element	EPDM	EPDM	NBR, IIR, CSM, FPM
05	Schraube	screw	A4 / AISI 316	A4 / AISI 316	
07	• Kegelstift	conic pin	1.4122 / AISI 430	1.4122 / AISI 430	
08	Antriebswelle	shaft	1.4021 / AISI 420	1.4021 / AISI 420	1.4462 / AISI 329
8.1/9.1	Beschichtung Welle/Zapfen	lining	NR (hardgummiert / hard)	NR (hardgummiert / hard)	nicht gummiert / not lined
09	Lagerzapfen	trunnion	1.4021 / AISI 420	1.4021 / AISI 420	1.4462 / AISI 329
10	Lagerbuchse	bush	G-CuSn10	G-CuSn10	SS316/PTFE
12	• O-Ring	O-Ring	EPDM	EPDM	NBR, CSM, FPM
13	• O-Ring	O-Ring	EPDM	EPDM	NBR, CSM, FPM
14	• Wellendichtung	shaft seal	EPDM	EPDM	NBR, CSM, FPM
15	Deckel	cover	St37 hartgummiert / A283 lined		
16	Schraube/Mutter	screw/nut	5.6, 5 / A519	5.6, 5 / A519	A4 / A2
18	• O-Ring	O-Ring	EPDM	EPDM	NBR, CSM, FPM
19	Paßfeder	key	St60 / A572	St60 / A572	

• = Verschleiß- und Ersatzteile / spare and wear parts



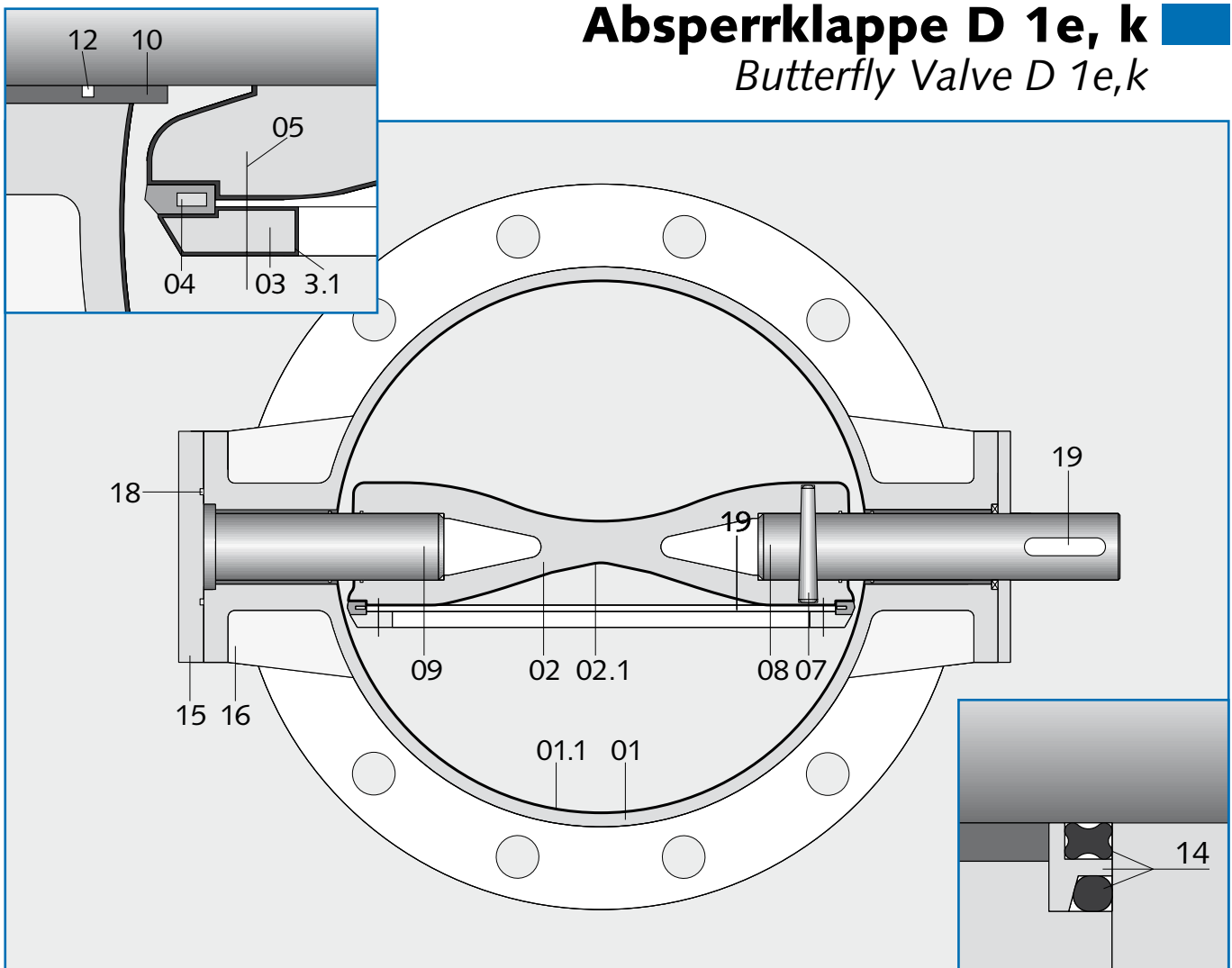
Schnittzeichnung  
**D 1a, w**  
Rev. 3 / 20.06.2008

**S+S Armaturen GmbH**  
FABRICATION | SALES | SERVICE

S+S Armaturen GmbH • Unterbüscherhof 29 • 42799 Leichlingen, Germany  
Phone: +49-21 74-78 47-0 • Fax: +49-21 74-78 47-28  
info@sus-armaturen.de • www.sus-armaturen.de

# Absperrklappe D 1e, k

## Butterfly Valve D 1e,k



Pos. Item	Benennung	Designation	Standard Typ D 1e Standard Typ D 1e	Standard Typ D 1k Standard Typ D 1k	Werkstoff-Alternative optional materials
01	Gehäuse	body	GGG40 / A536 60-14-18	GGG40 / A536 60-14-18	RSt37-2/A283 Gr.C / 1.4408/1.4581
1.1/2.1	Beschichtung Gehäuse	body lining	Email / enamel	EKB / epoxy	Sitz / seat Bronze, Nickel
02	Klappscheibe	disc	GGG40 / A536 60-14-18	GGG40 / A536 60-14-18	RSt37-2/A283, 1.4408/AISI316
2.1/3.1	Beschichtung Innenteil	lining inside parts	Email / enamel	EKB / epoxy	
03	Haltering	seal compressor	1.4301 / AISI 304	1.4301 / AISI 304	1.4571 / SS316Ti
04	• Lamellen-Dichtelement	seat seal-lamella	1.4571-POM / SS316-POM	1.4571-POM / SS316-POM	EPDM, NBR, IIR, CSM, FPM
05	Schraube	screw	A4 / AISI 316	A4 / AISI 316	
07	• Kegelstift	conic pin	1.4122 / AISI 430	1.4122 / AISI 430	1.4301/AISI 304-1.4462 / SS316L
08	Antriebswelle	shaft	1.4021 / AISI 420	1.4021 / AISI 420	1.4301/AISI 304-1.4462 / SS316L
09	Lagerzapfen	trunnion	1.4021 / AISI 420	1.4021 / AISI 420	1.4301/AISI 304-1.4462 / SS316L
10	Lagerbuchse	bush	Bronze	Bronze	PTFE-Compound
12	• O-Ring	O-Ring	EPDM	EPDM	CSM, FPM
14	• Wellendichtung	shaft seal	EPDM	EPDM	NBR, CSM, FPM
15	Deckel	cover	St37-2 / A283 Gr.C	St37-2 / A283 Gr.C	
16	Schraube/Mutter	screw/nut	5.6, 5 / A519	5.6, 5 / A519	A4 / A2
18	• O-Ring	O-Ring	PTFE	PTFE	CSM, FPM
19	Paßfeder	key	St60 / A572	St60 / A572	

• = Verschleiß- und Ersatzteile / spare and wear parts

material acc.to ASTM (or AISI): equivalence to DIN/EN-material



Schnittzeichnung  
**D 1e, k**  
Rev. 3 / 20.06.2008

**S+S Armaturen GmbH**  
FABRICATION | SALES | SERVICE

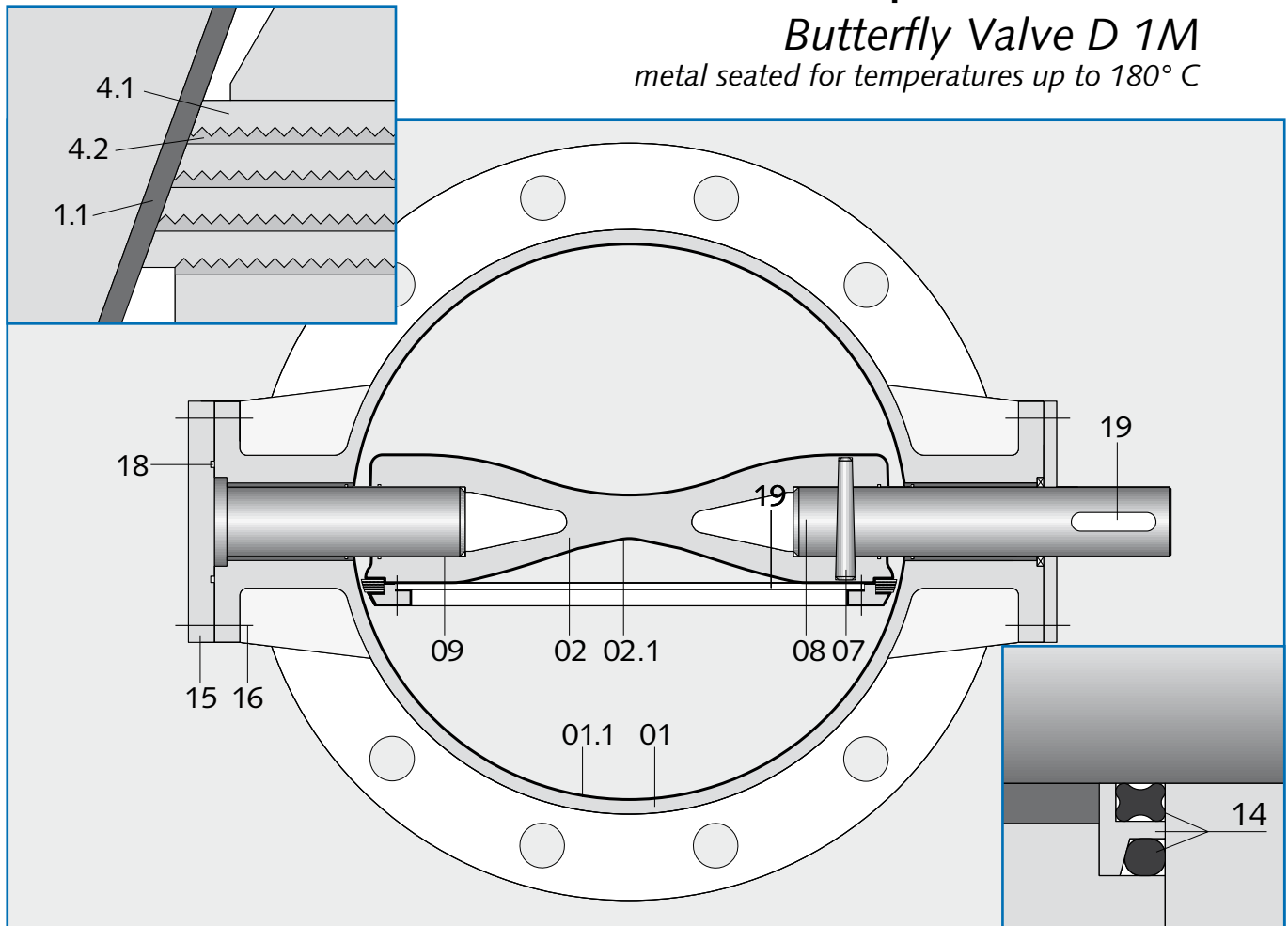
S+S Armaturen GmbH • Unterbüscherhof 29 • 42799 Leichlingen, Germany  
Phone: +49 -21 74 -78 47 -0 • Fax: +49 -21 74 -78 47 -28  
info@sus-armaturen.de • www.sus-armaturen.de

# Absperrklappe D 1M

metallisch dichtend für Temperaturen bis 180° C

Butterfly Valve D 1M

metal seated for temperatures up to 180° C



Pos. Item	Benennung	Designation	Standard Typ D 1M Standard Typ D 1M	Werkstoff-Alternative optional materials
01	Gehäuse	body	GGG40(.3) / A536 60-14-18	RSt37-2/A283 Gr.C / 1.4408/1.4581
1.1	Gehäuse Sitz	body seat	1.4404 / SS316	
02	Klappscheibe	disc	GGG40 / A536 60-14-18	RSt37-2/A283, 1.4408/AISI316
2.1/3.1	Beschichtung Innenteil	lining inside parts	Alu-Bronze	EKB Pulver bis 120°C / FBE up to 120°C
03	Haltering	seal compressor	1.4301	1.4571 o.ä. / SS316Ti or equivalent
04	• Lamellen-Dichtelement	seat seal-lamella	1.4571-POM / SS316-POM	1.4571 / Reingraphit / Pure Graphite
05	Schraube	screw	A4 / AISI 316	
07	• Kegelstift	conic pin	1.4122 / AISI 430	1.4122 / 1.4462
08	Antriebswelle	shaft	1.4021 / AISI 420	1.4122 / 1.4462
09	Lagerzapfen	trunnion	1.4021 / AISI 420	1.4122 / 1.4462
10	Lagerbuchse	bush	Bronze	PTFE-Compound
12	• O-Ring	O-Ring	PTFE	EPDM, FPM, AFLAS
14	• Wellendichtung	shaft seal	PTFE	EPDM, FPM, AFLAS
15	Deckel	cover	St37-2 / A283 Gr.C	
16	Schraube/Mutter	screw/nut	5.6, 5 / A519	A4 / A2
18	• O-Ring	O-Ring	PTFE	CSM, FPM, AFLAS
19	Paßfeder	key	St60 / A572	

• = Verschleiß- und Ersatzteile / spare and wear parts

material acc.to ASTM (or AISI): equivalence to DIN/EN-material



Schnittzeichnung  
**D 1M**  
Rev. 3 / 20.06.2008

**S+S Armaturen GmbH**  
FABRICATION | SALES | SERVICE

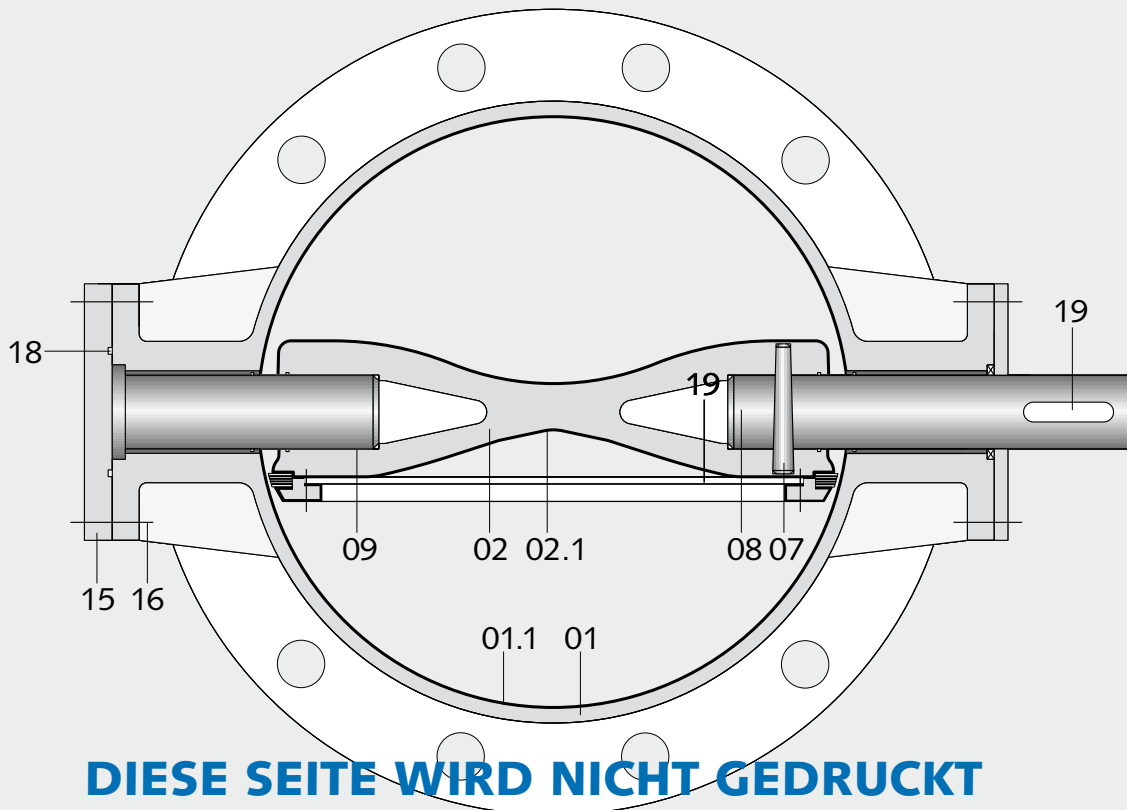
S+S Armaturen GmbH • Unterbüscherhof 29 • 42799 Leichlingen, Germany  
Phone: +49 -21 74 -78 47 -0 • Fax: +49 -21 74 -78 47 -28  
info@sus-armaturen.de • www.sus-armaturen.de

# Absperrklappe D 1M

metallisch dichtend für Temperaturen bis 180° C

Butterfly Valve D 1M

metal seated for temperatures up to 180° C



**DIESE SEITE WIRD NICHT GEDRUCKT**

Pos. Item	Benennung	Designation	Standard Typ D 1M Standard Typ D 1M	Werkstoff-Alternative optional materials
01	Gehäuse	body	GGG40(.3) / A536 60-14-18	RSt37-2/A283 Gr.C / 1.4408/1.4581
1.1	Gehäuse Sitz	body seat	1.4404 / SS316	
02	Klappscheibe	disc	GGG40 / A536 60-14-18	RSt37-2/A283, 1.4408/AISI316
2.1/3.1	Beschichtung Innenteil	lining inside parts	Alu-Bronze	EKB Pulver bis 120°C / FBE up to 120°C
03	Haltering	seal compressor	1.4301	1.4571 o.ä. / SS316Ti or equivalent
04	• Lamellen-Dichtelement	seat seal-lamella	1.4571-POM / SS316-POM	1.4571 / Reingraphit / Pure Graphite
05	Schraube	screw	A4 / AISI 316	
07	• Kegelstift	conic pin	1.4122 / AISI 430	
08	Antriebswelle	shaft	1.4021 / AISI 420	1.4122 / 1.4462
09	Lagerzapfen	trunnion	1.4021 / AISI 420	1.4122 / 1.4462
10	Lagerbuchse	bush	Bronze	PTFE-Compound
12	• O-Ring	O-Ring	PTFE	EPDM, FPM, AFLAS
14	• Wellendichtung	shaft seal	PTFE	EPDM, FPM, AFLAS
15	Deckel	cover	St37-2 / A283 Gr.C	
16	Schraube/Mutter	screw/nut	5.6, 5 / A519	A4 / A2
18	• O-Ring	O-Ring	PTFE	CSM, FPM, AFLAS
19	Paßfeder	key	St60 / A572	

• = Verschleiß- und Ersatzteile / spare and wear parts

material acc.to ASTM (or AISI): equivalence to DIN/EN-material



Schnittzeichnung

**D 1M**

Rev. 3 / 20.06.2008

## S+S Armaturen GmbH

FABRICATION | SALES | SERVICE

S+S Armaturen GmbH • Unterbüscherhof 29 • 42799 Leichlingen, Germany

Phone: +49 -21 74 -78 47 -0 • Fax: +49 -21 74 -78 47 -28

info@sus-armaturen.de • www.sus-armaturen.de



**D 1 Catalogue**  
Rev. 5 / 19.08.2008

## **S+S** *Armaturen GmbH*

FABRICATION | SALES | SERVICE

**S+S Armaturen GmbH** • Unterbüscherhof 29 • 42799 Leichlingen, Germany  
Phone: +49 -21 74 -78 47 -0 • Fax: +49 -21 74 -78 47 -28  
info@sus-armaturen.de • www.sus-armaturen.de