Butterfly Valve Programme

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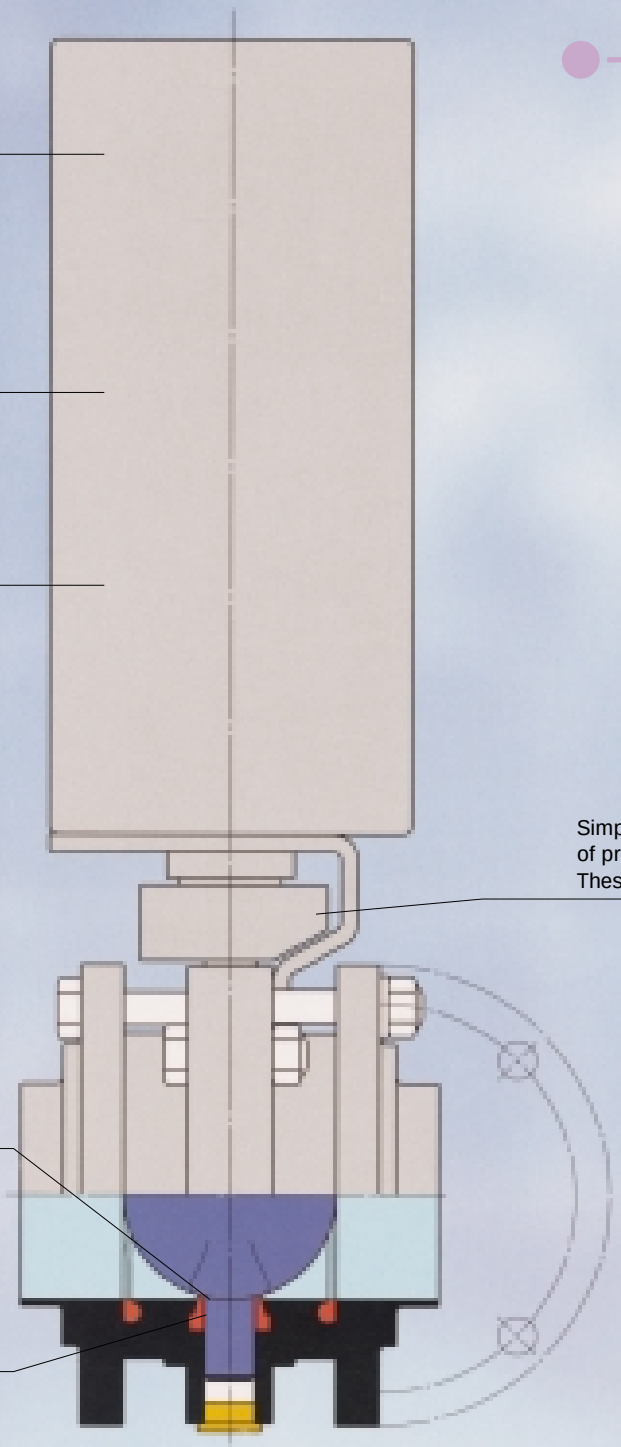
Installation of accessories possible,
e.g. electronic control head

High switching torques and
long maintenance intervals

Long service life



Simple installation
of proximity switches
These may also be retrofitted

Wide range of elastomers to
meet even extreme demands

Seal with expansion grooves prevents
stiffness at high temperatures

Butterfly valve

Butterfly valves are used at stages in the production process where a single shut-off of the flow of liquids is required. The SÜDMO butterfly valve programme offers a wide range of alternatives, in terms of design and configuration, for applications in the beverage, food, chemical, cosmetics and pharmaceutical industries.
The SÜDMO range combines top quality with a broad spectrum of technical advantages:

- Solid butterfly discs forged in high-grade stainless steel
- Streamlined design of the butterfly disc guarantees low flow resistance
- Seal geometry with expansion groove ensures low wear and long life of seal
- Seals available in a large variety of different qualities – possible to select seal ideally suited to the individual operating conditions
- Body flanges available in many different connection variants
- Optimum surface quality and body design guarantee maximum ease of cleaning
- Inner surfaces Ra ≤ 0.8 µm

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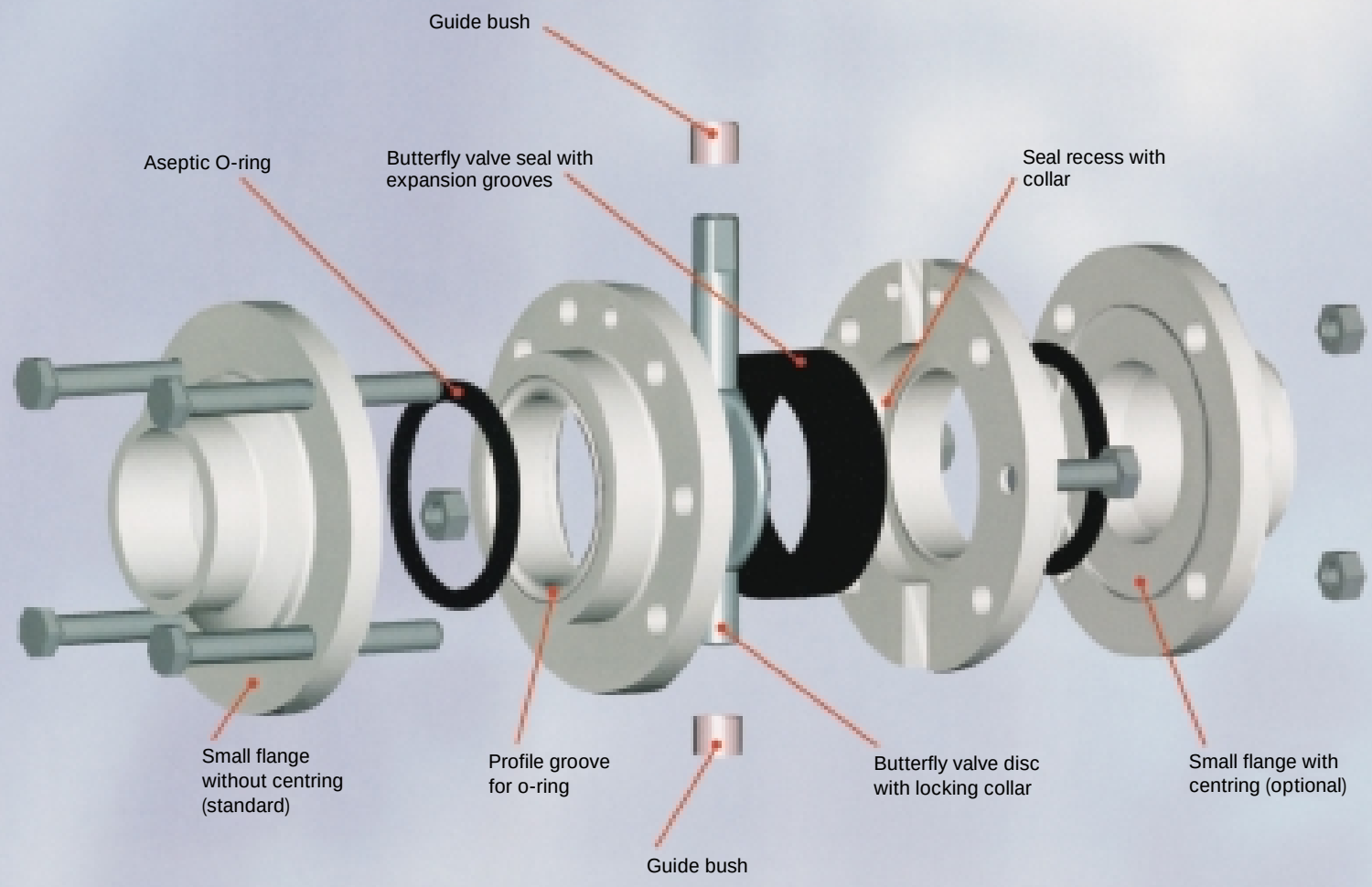
Guide bush
Aseptic O-ring
Butterfly valve seal with expansion grooves
Seal recess with collar
Small flange without centring (standard)
Profile groove for o-ring
Butterfly valve disc with locking collar
Small flange with centring (optional)
Guide bush

The SÜDMO butterfly valve programme in detail

- Butterfly discs with slide bearings (Iglidur G):
  Self-positioning of components for extremely simple installation, reduced friction, longer life.

- FDA-certified materials used as standard in seals:
  The entire range is alternatively available in EPDM, VMQ, FPM and HNBR. All materials are used with the tried-and-tested seal geometry.

- Body flanges in many variants
  Orbital welded ends for use of cassette welding:
  Body flanges optimally sealed in sandwich-type valve design, small flanges optionally with centring.

Materials		Butterfly valve	Leakage butterfly valve
Parts in contact with the product			
	Standard	1.4404 / AISI 316L	
		Higher-grade materials available on request	
Parts not in contact with the product			
	Standard	1.4301 / AISI 304	
Surfaces in contact with the product			
	Standard	Ra ≤ 0,8µm	
	Optional	Electropolished	
		Higher-grade surfaces available on request	
Pressure			
	Product pressure	Max. 10 bar	
	Air pressure	Min. 6 bar, max. 10 bar	
Temperatures			
	Standard	Dependent on the quality of seal used	
	Short-term		

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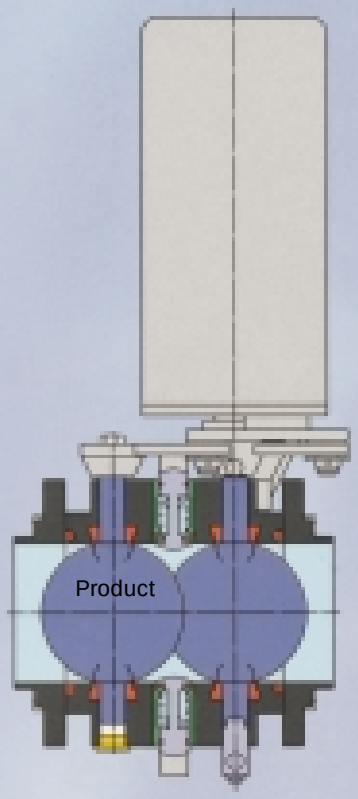
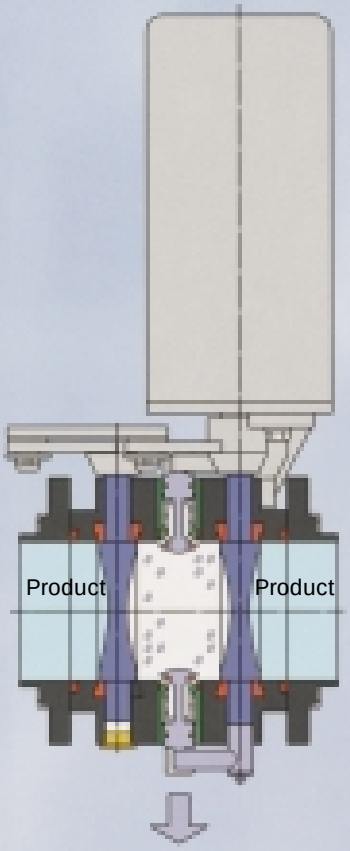
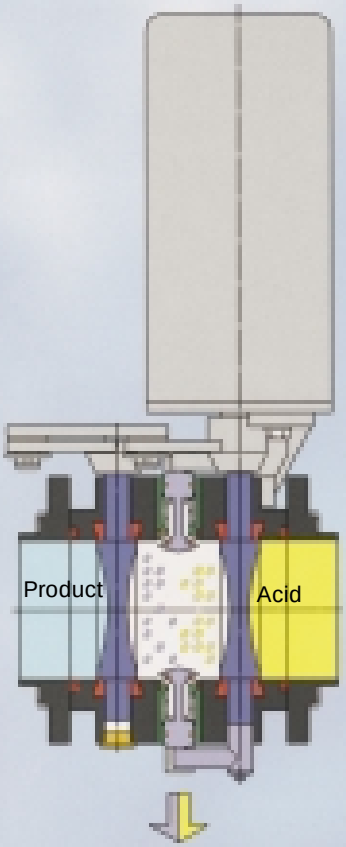


1 Butterfly valve open



2 Butterfly valve closed



3 Cleaning or sterilization of the leakage chamber

SÜDMO leakage butterfly valves for double safety

Double shut-off of the piping system makes it possible to separate different liquids (e.g. product and cleaning liquid) with absolute safety.
The double sealing of the piping by means of two butterfly discs, and thus two seals, in conjunction with the separately cleanable leakage chamber, ensures the safe separation of the liquids.

The functional principle in detail:

1 Butterfly valve open

- Cross section open
- Holes for cleaning connection and leakage outlet are closed

2 Butterfly valve closed

- Safe separation of non-compatible liquids by means of positively controlled butterly discs
- Any leaks are drained through the lower outlet

3 Cleaning (CIP) or sterilization (SIP) of the leakage chamber

- Cleaning liquid enters the leakage chamber via the upper cleaning connection
- Cleaning liquid then flows out into the open (not under pressure) through the lower leakage outlet

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The bus system-
an alternative method of monitoring and control

The valve technology is incorporated into the fully or partially automated production process by means of the integrated control and feedback functions. This makes systematic function and status checks of the installation possible.
The electronic control system is contained in the compact multifunctional SÜDMO control head which can be mounted with a flange adapter on any pneumatic actuator.

The advantages at a glance:

- Flexibility due to modular structure with up to 3 integrated solenoid valves
- Electrical valve control, either as a multipole connector or as an ASI bus interface
- Position feedback with inductive proximity switches
- Optical position indication using LEDs
- Valve system air hoses kept to a minimum
- Dust-tight and waterproof, protection class IP 67

The choice is yours - manual or automatic operation

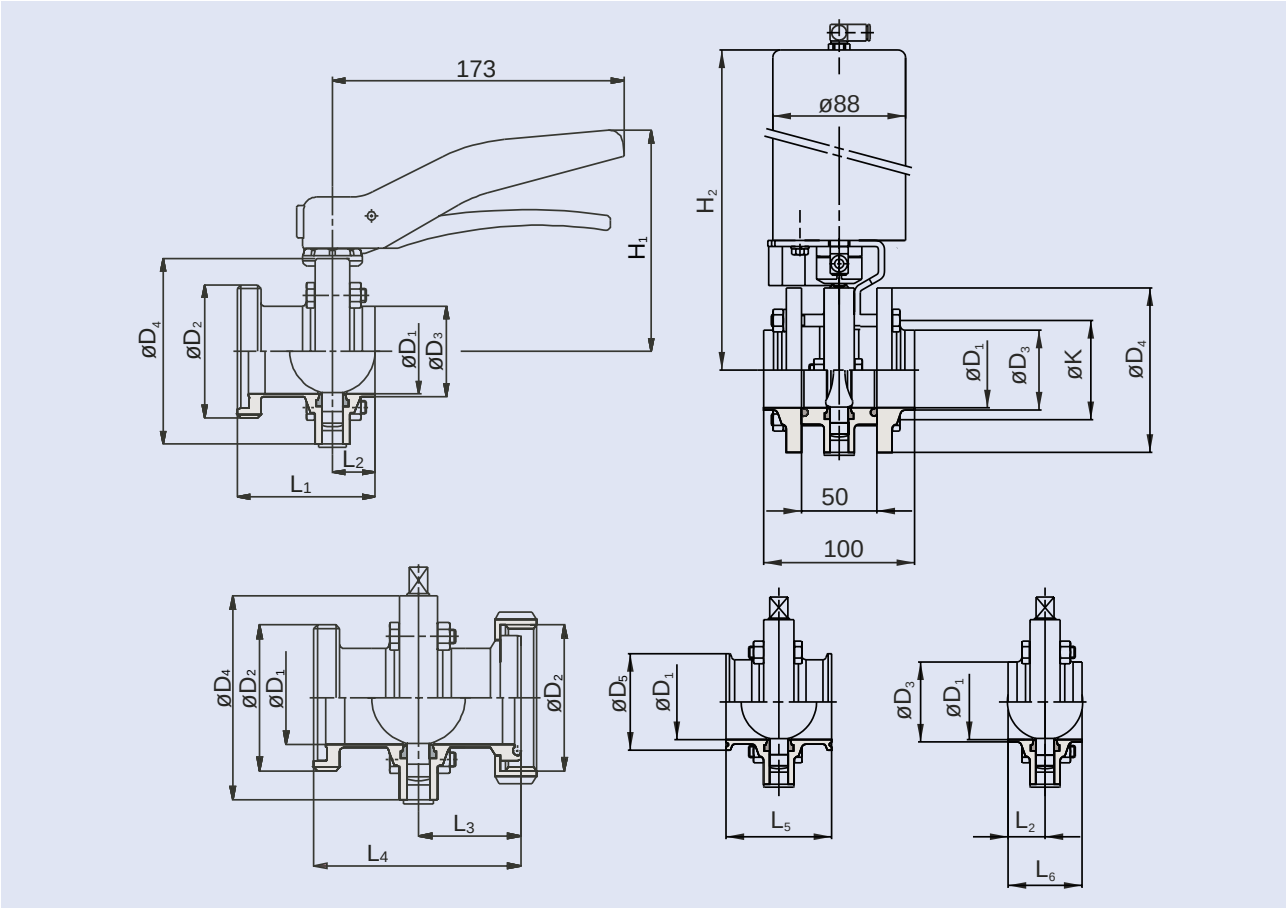
SÜDMO butterfly valves can be controlled either manually or pneumatically. The design of valve can thus be individually adapted according to the specific site and requirements.

The SÜDMO handle
- Ergonomic shape
- Wear-free plastic design
- Can be turned through 360° or locked in position at intervals of 30°, 45° or 90°
- Optionally connection for control sensors

The maintenance-free pneumatic actuator
- Optimized design guarantees maximum functionality
- Simple exchange and installation, even on older butterfly valves
- Connection for round or rectangular position sensors standard

Multy-way butterfly valves - solutions tailored to your application

Multi-way butterfly valves are the ideal solution for stages in the production process where it is necessary to coordinate the flow of different products in a controlled manner. Multi-way butterfly valves are an economical alternative to production process controllers. The examples show just a selection from the available spectrum. The variety of actuator types and connection methods available makes for a wide range of variants.



Metric

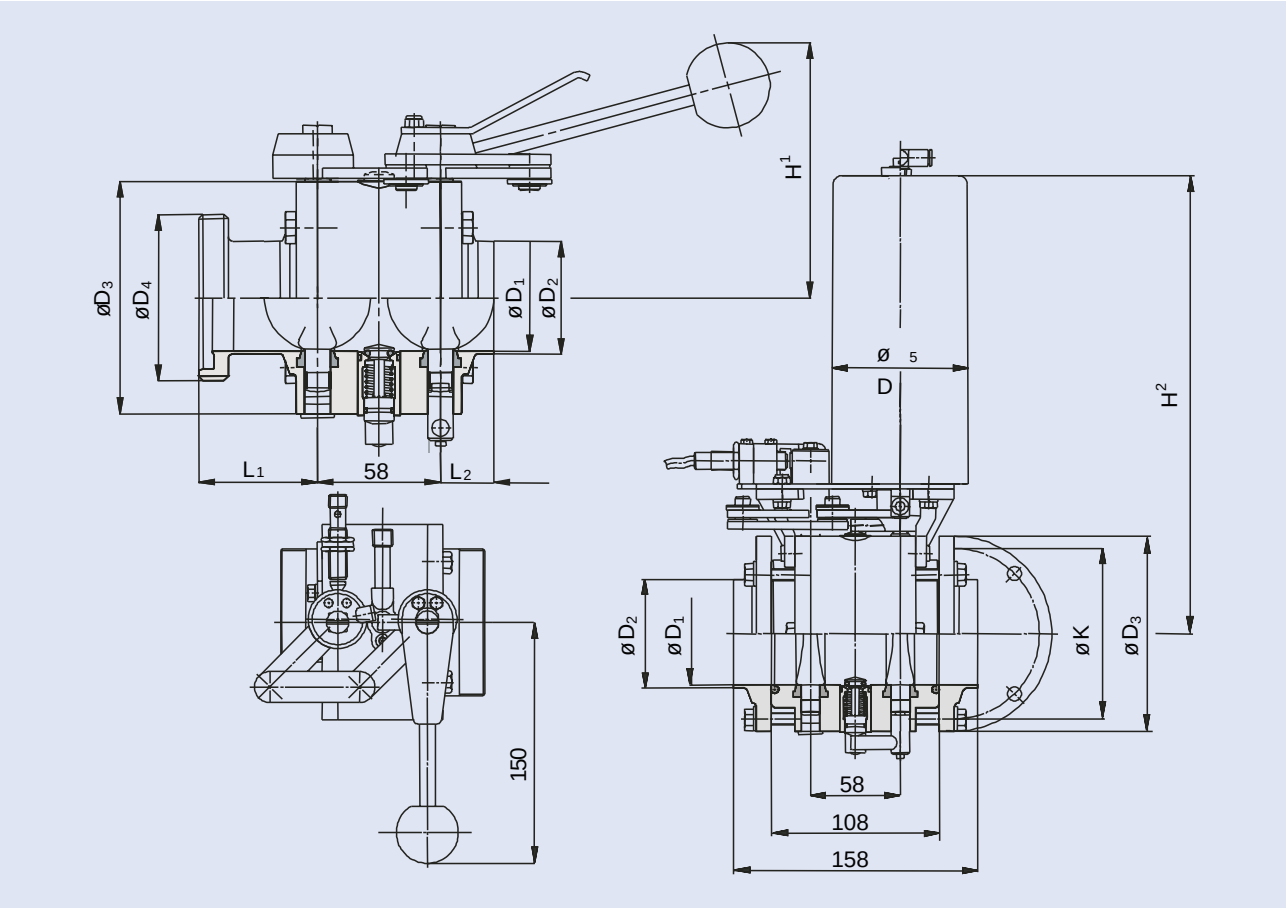
DN	øD1	ØD2	øD3	øD4	øD5	H1	H2	øK	L1	L2	L3	L4	L5	L6
15	16	Rd 34 x 1/8”	19	62	-	110	263	50	55	25	30	71,5	-	50
20	20	Rd 44 x 1/6”	23	70	-	113	267	50	60	25	35	77,5	-	50
25	26	Rd 52 x 1/6”	29	84	50,5	120	274	67	60	25	35	81,5	70	50
32	32	Rd 58 x 1/6”	35	90	-	123	277	73	60	25	35	81,5	-	50
40	38	Rd 65 x 1/6”	41	96	50,5	126	280	80	60	25	35	85,5	70	50
50	50	Rd 78 x 1/6”	53	109	64	133	286	93	60	25	35	87,5	70	50
65	66	Rd 95 x 1/6”	70	126	91	142	294	110	62	25	37	93,5	74	50
80	81	Rd 110 x 1/4”	85	141	106	149	302	125	85	42,5	42,5	121,5	85	85
100	100	Rd 130 x 1/4”	104	161	119	159	313	145	85	42,5	42,5	128,5	85	85

OD-Tube

DN	øD1	ØD2	øD3	øD4	øD5	H1	H2	øK	L1	L2	L3	L4	L5	L6
1”	22,1	IDF 37,05 x 1/8”	25,4	84	50,5	120	274	67	60	25	35	-	70	50
1 1/2”	34,8	IDF 50,57 x 1/8”	38,1	96	50,5	126	280	80	60	25	35	-	70	50
2”	47,5	IDF 64,08 x 1/8”	50,8	109	64	133	286	93	60	25	35	-	70	50
2 1/2”	60,2	IDF 77,59 x 1/8”	63,5	126	77,5	142	294	110	62	25	37,5	-	74	50
3”	72,9	IDF 91,11 x 1/8”	76,2	141	91	149	302	125	85	42,5	42,5	-	85	85
4”	97,4	IDF 118,14 x 1/8”	101,6	161	119	159	313	145	85	42,5	42,5	-	85	85

DIN EN ISO 1127

DN	øD1	ØD2	øD3	øD4	øD5	H1	H2	øK	L1	L2	L3	L4	L5	L6
25	29,7	Rd. 58 x 1/6”	33,7	84	50,5	120	274	67	80	25	50	105	70	50
32	38,4	Rd. 65 x 1/6”	42,4	96	64	126	280	80	81	25	51	107	70	50
40	44,3	Rd. 78 x 1/6”	48,3	96	64	126	280	80	81	25	55	111	70	50
50	56,3	Rd. 95 x 1/6”	60,3	109	77,5	133	286	93	86	25	59	120	70	50
65	71,5	Rd. 110 x 1/4”	76,1	141	91	149	303	125	127	42,5	80	164	85	85
80	84,3	Rd. 130 x 1/4”	88,9	141	106	149	303	125	135	42,5	88	180	85	85
100	109,1	-	114,3	161	130	159	314	145	-	42,5	-	-	85	85



Metric

DN	øD1	ØD2	øD3	øD4	øD5	H1	H2	øK	L1	L2
25	26	29	84	Rd. 52 x 1/6”	88	104	276	67	35	25
32	32	35	90	Rd. 58 x 1/6”	88	107	279	73	35	25
40	38	41	96	Rd. 65 x 1/6”	88	110	282	80	35	25
50	50	53	109	Rd. 78 x 1/6”	88	117	288	93	35	25
65	66	70	126	Rd. 95 x 1/6”	88	125	297	110	37	25
80	81	85	141	Rd. 110 x 1/4”	88	133	304	125	42,5	42,5
100	100	104	161	Rd. 130 x 1/4”	127	143	357	145	42,5	42,5

OD-Tube

DN	øD1	ØD2	øD3	øD4	øD5	H1	H2	ØK	L1	L2
1”	22,1	25,4	84	IDF 37,05 x 1/8”	88	104	276	67	35	25
1 1/2”	34,8	38,1	96	IDF 50,57 x 1/8”	88	110	282	80	35	25
2”	47,5	50,8	109	IDF 64,08 x 1/8”	88	117	288	93	35	25
2 1/2”	60,2	63,5	126	IDF 77,59 x 1/8”	88	125	297	110	37,5	25
3”	72,9	76,2	141	IDF 91,11 x 1/8”	88	133	304	125	42,5	42,5
4”	97,4	101,6	161	IDF 118,14 x 1/8”	127	143	357	145	42,5	42,5

DIN EN ISO 1127

DN	øD1	ØD2	øD3	øD4	øD5	H1	H2	øK	L1	L2
25	29,7	33,7	84	Rd. 58 x 1/6”	88	104	276	67	55	25
32	38,4	42,4	96	Rd. 65 x 1/6”	88	110	282	80	56	25
40	44,3	48,3	96	Rd. 78 x 1/6”	88	110	282	80	56	25
50	56,3	60,3	109	Rd. 95 x 1/6”	88	117	288	93	61	25
65	71,5	76,1	141	Rd. 110 x 1/4”	88	133	304	125	84,5	42,5
80	84,3	88,9	141	Rd. 130 x 1/4”	88	133	304	125	92,5	42,5
100	109,1	114,3	161	-	127	143	357	145	-	42,5

SÜDMO

Industriestrasse 7 - D-73469 - Riesbürg - Germany
Tel. ++ 49 (90 81) 80 3-0 - Fax ++ 49 (90 81) 80 31 58
E-mail: info@sudmo.de - Internet: www.sudmo.de

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