

LÜDECKE

BALL VALVES



Ball Valves

Sturdy **LUDECKE** design, brass nickel-plated

- Ball valves for air, water and many other fluids of high quality and extraordinary standard.
- Maintenance-free operation, long-living, sturdy and reliable, easy switching with full free passage, tested of tightness.

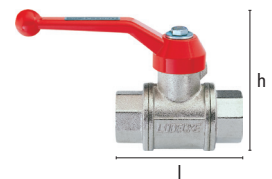
- **For Industry, Construction and civil installations.**

body and sockets: brass, sandblasted and nickel-plated
 spindle and nut: brass
 ball: brass chromed
 ball seals: PTFE
 spindle seals: FKM-O-Ring
 handle: steel resp. aluminium red painted

Max. Working Pressure	Temperature	Material	Sealing Mat.	Medium	Threads	
PN 35 bar	-15°C – +100°C	brass MS 58	PTFE / FKM	air, water ...	DIN 2999	1

Ball Valves with female thread DIN 2999

Thread	DN	l	h	Length Handle	Hexagon	Weight/pc. g	Type No.
R 1/4"	8	50	78	95	25	296	KM 14 T
R 3/8"	10	60	78	95	25	302	KM 38 T
R 1/2"	15	75	82	95	26	390	KM 12 T
R 3/4"	20	80	90	104	32	682	KM 34 T
R 1"	25	90	97	104	39	876	KM 10 T
R 2"	50	140	170	178	70	3700	KM 20 T



Double Ball Valves and Airhammer Ball Valves

Sturdy **LUDECKE** design, brass

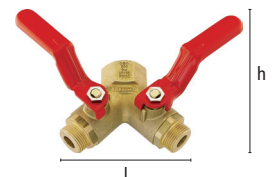
- High quality, maintenance free valves of brass, extremely robust.
- With lever stop and exhaust, on request also without exhaust.
- **For compressed air in construction, on compressors and airhammers.**
- **For industrial applications.**

body and threaded ends: brass
 ball seals: PTFE glass fiber reinforced
 spindle seals: Perbunan
 ball: brass nickel-plated, DN 13
 handle: steel, red painted

Max. Working Pressure	Temperature	Material	Mat. Seals	Medium	Threads	
PN 35 bar	-15°C – +100°C	brass MS 58	PTFE / Perbunan	compressed air	ISO 228	1

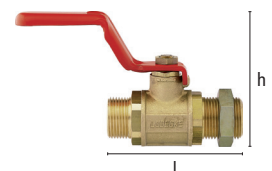
Double Ball Valves

Adjunction	Inlet	DN	l	h	Hexagon	Weight/pc. g	Type No.
2 x G 3/4" male	G 1" female	13	115	105	41	1039	DKH 10
2 x KIGO 34	G 1" female	13	170	130	41	1350	DKH 10 G
2 x KIM 34	G 1" female	13	170	130	41	1435	DKH 10 M
2 x KIG 34-DR	G 1" female	13	215	150	41	1704	DKH 10 DR



Airhammer Ball Valves, inlet thread with lock nut \ominus 32, outlet with inside cone 1:4

Adjunction	Inlet	DN	l	h	Hexagon	Weight/pc. g	Type No.
G 3/4" male	G 3/4" male	13	81	82	32	491	BKH 34
KIGO 34	G 3/4" male	13	120	82	32	640	BKH 34 G
KIM 34	G 3/4" male	13	120	82	32	684	BKH 34 M
KIG 34-DR	G 3/4" male	13	135	82	32	823	BKH 34 DR



- On request we produce valves according to your drawings or samples with special adjunctions and gaskets.
- Also available with T-Handle up to DN 25 i.e. KM 34 TBG
- Please order ball valves used in inspected plants separately, i.e. KM 12 T-AD

Ball Valves

Light design, brass nickel-plated

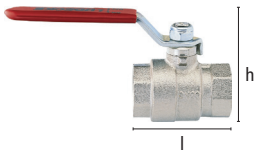
- Ball Valves with full free passage, reduced dimensions.
- For Construction, Industry, Agriculture and civil installations.

body and sockets:	brass, nickel-plated
spindle and nut:	brass
ball:	brass chromed
ball seals:	PTFE
spindle seals:	FKM-O-Ring
handle:	Steel coated with PVC red
adhesive:	Loctite AVX 586

Max. Working Pressure	Temperature	Material	Sealing Mat.	Medium	Threads	Port Capacity	Pressure Drop	
⊕ Diagram	-15°C – +120°C	brass MS 58	PTFE / FKM	air, water ...	ISO 228	⊕ Diagram	⊕ Diagram	1

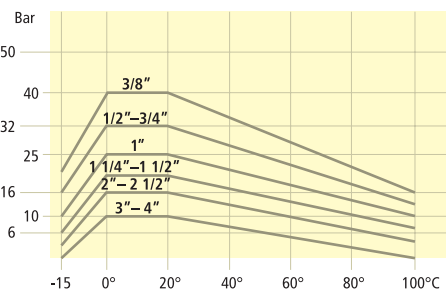
Ball Valves with female thread ISO 228

Thread	DN	l	h	Length handle	∅ Body	Weight/pc. g	Type No.
G 1/4"	8	37	41	85	23	114	K 14 K
G 3/8"	10	42	37	85	24	132	K 38 K
G 1/2"	15	50	40	85	30	180	K 12 K
G 3/4"	20	58	48	105	38	306	K 34 K
G 1"	25	68	52	105	46	470	K 10 K
G 1 1/4"	32	80	63	130	58	813	K 54 K
G 1 1/2"	40	93	69	130	70	1262	K 15 K
G 2"	50	110	83	165	86	2100	K 20 K
G 2 1/2"	65	133	116	260	111	3799	K 25 K
G 3"	80	156	127	260	135	5625	K 30 K



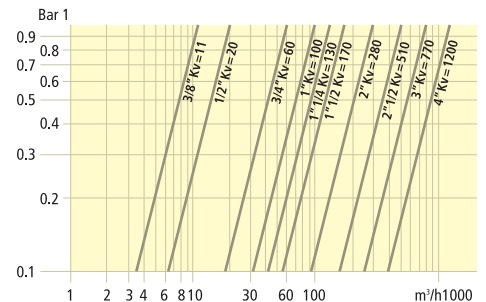
Pressure and temperature diagram

For each size of valve at each pressure level corresponds a specific admissible temperature level and viceversa.



Port capacity and pressure drop diagram

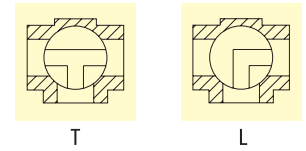
The Kv is the index port capacity, expressed in cubic meters per hour, causing a pressure drop of 1 bar with water at 15°C.



Three Way Ball Valves

- Robust ball valves of brass, nickel-plated
- For junctions or alternatively switching of air or water lines in industry, construction or civil applications

body: brass, nickel-plated
 handle: aluminium
 ball: brass, hard chromed
 ball seals: PTFE
 spindle seals: PFTE

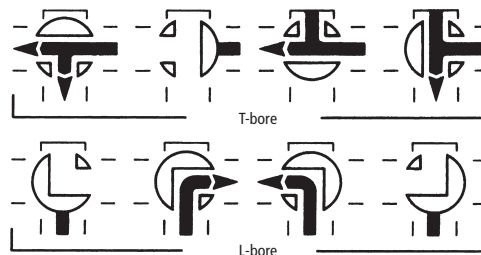
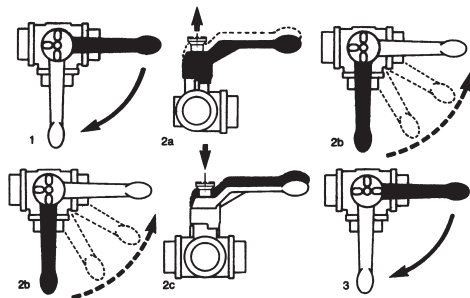
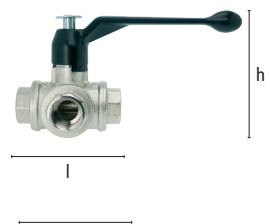


Available with T or L-bore, please state when ordering

Max. Working Pressure	Temperature	Material	Mat. Seals	Medium	Threads	⊗
⊗ below	-15°C – +100°C	brass nickel-plated	PTFE	air / water	ISO 228	1

Three-way ball valves with 3 x female thread

Thread	DN	PN	l	h	Length		Weight/		Weight/	
					handle	⊙Hexagon	pc. g	Type No./T	pc. g	Type No./L
G 1/4"	10	40	71	96	130	27	713	DWK 14 T	679	DWK 14 L
G 3/8"	13	40	71	96	130	27	662	DWK 38 T	643	DWK 38 L
G 1/2"	13	40	80	96	130	27	653	DWK 12 T	637	DWK 12 L
G 3/4"	18	40	96	113	160	33	1090	DWK 34 T	1100	DWK 34 L
G 1"	23	25	113	122	160	40	1695	DWK 10 T	1710	DWK 10 L
G 1 1/4"	29	16	130	144	195	50	2680	DWK 54 T	2660	DWK 54 L
G 1 1/2"	35	16	147	154	195	57	3660	DWK 15 T	3710	DWK 15 L
G 2"	44	16	169	176	235	70	5820	DWK 20 T	5880	DWK 20 L



Flow direction diagram of T- and L-bore.

Position 1 and 3:
Switching with ball rotation.

Positions 2a – 2b – 2c:
Switching without ball rotation.

Hexagon Ball Valves

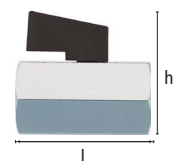
- Miniature ball valves of brass, nickel-plated
- For pneumatic or water installations in industry, construction or civil applications

body: brass, nickel-plated
 ball: brass, chromed
 handle: plastic
 seals: PTFE

Max. Working Pressure	Temperature	Material	Mat. Seals	Medium	Threads	⊗
PN 10 bar	-10°C – +90°C	brass nickel-plated	PTFE	air / water	ISO 228	10

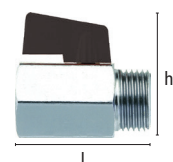
Hexagon Ball Valves with 2 x female thread

Thread	DN	l	h	⊙Hexagon	Weight/pc. g	Type No.
G 1/4"	5.5	36	38	19	71	KM 14 TS
G 3/8"	8	41	38	21	86	KM 38 TS
G 1/2"	10	48	42	25	137	KM 12 TS



Hexagon Ball Valves with female/male thread

Thread	DN	l	h	⊙Hexagon	Weight/pc. g	Type No.
G 1/4"	5.5	36	38	19	61	KMZ 14 TS
G 3/8"	8	41	38	21	83	KMZ 38 TS
G 1/2"	10	48	42	25	130	KMZ 12 TS



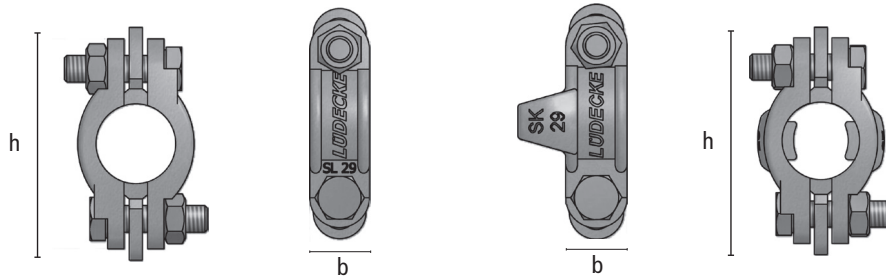
HOSE CLAMPS



Hose Clamps

Malleable Iron and Stainless Steel

- Robust clamps of malleable iron, zinc plated and yellow passivated (free of chrome VI) resp. stainless steel 1.4401
- Easy and secure, for various fittings and applications



Max. Working Pressure	Material	Material Screws	Norm
PN 16 / 25 bar	malleable iron / stainless steel	DIN 933-8.8 VG / 1.4401	☺ below

Hose Clamps, two parts with overlapping cast-on-spacers

For hose i.D.	Hose o.D./Range	b	h	PN	Weight/pc. g	☺	Type No.
1/2" = 13 mm	17–22 mm	17	60	16	95	10	S 22
3/4" = 19 mm	27–32 mm	17	70.5	16	105	10	S 34

Hose Clamps DIN 20039 A, two parts with loose spacers. Material Stainless Steel 1.4401

Size								
For hose i.D.	Screws	Hose o.D./Range	b	h	PN	Weight/pc. g	☺	Type No.
1/2" = 13 mm	M 8 x 30	18 – 26 mm	18	63	16	140	5	SLE 13
3/4" = 19 mm	M 8 x 30	26– 33 mm	18	71	16	160	5	SLE 19
1" = 25 mm	M 10 x 35	32 – 40 mm	18	81	16	210	5	SLE 25

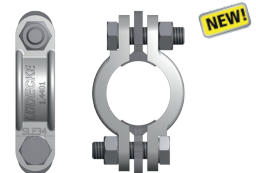
Hose Clamps DIN 20039 A*, two parts with loose spacers

For hose i.D.	Hose o.D./Range	b	h	PN	Weight/pc. g	☺	Type No.
1/2" = 13 mm	22–29	18	63	16	128	10	SL 29*
3/4" = 19 mm	28–34	18	71	16	134	10	SL 34*
1" = 25 mm	32–40	18	81	16	188	10	SL 40*
1 1/4" = 32 mm	39–49	20	91	16	244	10	SL 49*
1 1/2" = 38 mm	48–60	24	108	16	297	5	SL 60*
2" = 50 mm	56–72	25	116	16	340	5	SL 72
2" = 50 mm	60–76	25	127	16	405	5	SL 76*
2 1/2" = 63 mm	77–94	30	146	16	556	5	SL 94*
3" = 75 mm	89–101	25	139	16	665	1	SL 400
3" = 75 mm	94–115	35	176	16	739	1	SL 115
3 1/2" = 89 mm	113–127	27	170	16	890	1	SL 525
3 1/2" = 89 mm	115–145	38	198	16	1046	1	SL 145
4" = 100 mm	127–140	28	178	16	972	1	SL 550
4" = 100 mm	135–155	27	194	16	984	1	SL 600
5" = 125 mm	155–175	30	217	16	1130	1	SL 675
6" = 150 mm	175–195	30	244	16	1445	1	SL 769
7" = 175 mm	210–225	35	280	16	2163	1	SL 875
8" = 200 mm	227–250	35	312	16	2610	1	SL 988

Hose Clamps DIN 20039 B, two parts with loose spacers and safety claws

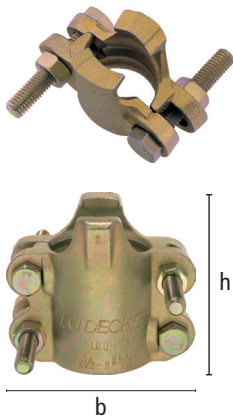
For hose i.D.	Hose o.D./Range	b	h	PN	Weight/pc. g	☺	Type No.
1/2" = 13 mm	22–29	18	63	25	142	10	SK 29
19 x 2		18	63	25	140	10	SK 29 FL*
3/4" = 19 mm	28–32	21	77	25	220	10	SK 34
25 x 2		21	77	25	220	10	SK 34 FL*
1" = 25 mm	35–42	22	90	25	272	10	SK 39
1 7/64" = 28 mm	42–45	24	98	25	340	5	SK 44
1 3/8" = 35 mm	45–53	25	108	25	380	5	SK 51
1 5/8" = 42 mm	55–60	26	119	25	416	1	SK 60
2" = 50 mm	60–73	30	132	25	637	1	SK 73
3" = 75 mm	86–102	28	160	25	860	1	SK 75

*for Flat Hose



US-Hose Clamps

- Robust clamps of malleable iron. zinc plated and yellow passivated (free of chrome VI)
- Easy and secure. for various fittings and applications



Max. Working Pressure	Material screws	Material
PN 25 bar	DIN 933-8.8 VG	malleable iron

US-Hose Clamps. two parts with safety claws

For hose i.D	Screws	Hose o.D./Range	b	h	PN	Weight/pc. g	⊠	Type No.
1/2" = 13 mm	2	21–27	55	45	25	171	10	LB-4
3/4" = 19 mm	2	30–35	65	43	25	176	10	SKA 34
3/4" = 19 mm	2	30–33	70	64	25	405	1	LBU-9
3/4" = 19 mm	2	33–38	71	70	25	413	1	LB-9
3/4" = 19 mm	2	38–43	78	68	25	433	1	LB-10
1" = 25 mm	2	35–45	85	70	25	500	1	SKA 10
2" = 50 mm	4	63–70	120	100	25	1503	1	LBU-29

Two-Ear Hose Clips

- Profile according to DIN 2393 C
- Clips of special reliable steel. zinc plated and blue chromated (free of chrome VI)
- Easy and fast assembly with pincer
- Concentric and strong clamp-effect. safe and unremovable
- No danger of hurt during assembly or work
- Suitable for various hoses and fittings for different fluids

Material	Medium	⊠
special reliable steel	various	100

Two-Ear-Hose Clips



Hose o.D./Range	band-width	Weight/pc. g	Type No.
5–7 mm	5.5 mm	1	ZOS 5-7
7–9 mm	6 mm	2	ZOS 7-9
9–11 mm	6 mm	2	ZOS 9-11
11–13 mm	6 mm	3	ZOS 11-13
13–15 mm	7 mm	4	ZOS 13-15
14–17 mm	7.5 mm	4	ZOS 14-17
15–18 mm	8 mm	5	ZOS 15-18
17–20 mm	8 mm	5	ZOS 17-20
19–21 mm	7 mm	5	ZOS 19-21
20–23 mm	9 mm	8	ZOS 20-23
22–25 mm	9 mm	9	ZOS 22-25
23–27 mm	9 mm	9	ZOS 23-27
25–28 mm	9 mm	10	ZOS 25-28
27–31 mm	9 mm	12	ZOS 27-31
31–34 mm	9 mm	13	ZOS 31-34
34–37 mm	9 mm	16	ZOS 34-37
37–40 mm	9 mm	17	ZOS 37-40
40–43 mm	9 mm	18	ZOS 40-43

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High-Performance Hose Clips

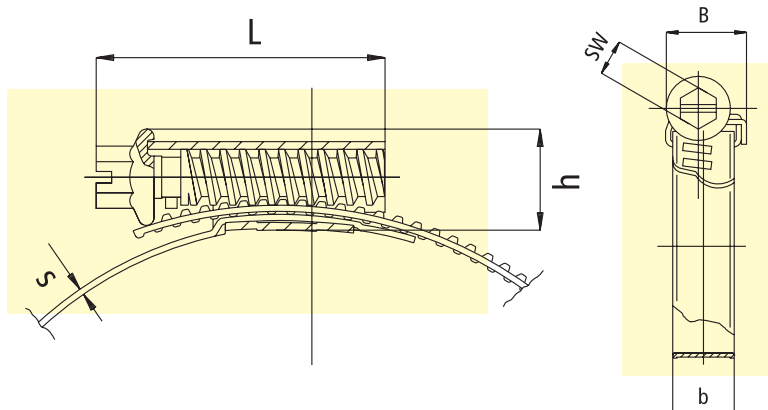
DIN 3017 of Steel W1

- Hose clips of steel W1. chrome-VI-free zinc plated and passivated
- Optimum sealing through high band tension – maximum strip safety
- Hose-protective through rounded edges and smooth band inside
- Thinner screw body with new position. therefore improved torque
- Material and clamp range stamped at inner band side
- Hexagon screw with cross-slotted head
- Regularly spaced tension over complete hose diameter
- Up to size 90 in boxes. sizes 100–180 in plastic bags. from size 190 on loose
- For safe, fast and removable use on various hoses and fittings for different fluids

Material	Norm	Medium	Hexagon
W 1	DIN 3017	various	SW 7

High-Performance Hose Clips. band and lock steel W 1 zinc plated

Range mm	inch	torque		B	h	L	Weight/pc. g	Type No.		
		Band-width b	Band-thickness s							
8-12	5/18"-1/2"	9	2 + 0.5	0.7	14	11.5	20.5	12	100	HS 12
10-16	5/18"-5/8"	9	2 + 0.5	0.8	14	11.5	20.5	13	100	HS 16
12-22	1/2"-3/4"	9	3 + 0.5	0.8	14	11.5	24	16	100	HS 20
16-27	5/8"-1"	9	5 + 0.5	0.8	16	13	31	17	100	HS 25
20-32	3/4"-1 1/4"	12	5 + 0.5	0.8	16	13	31	27	50	HS 32
25-40	1"-1 5/8"	12	5 + 0.5	1.0	16	13	31	32	50	HS 40
30-45	1 3/8"-1 3/4"	12	5 + 0.5	1.0	16	13	31	33	50	HS 45
35-50	1 1/4"-2"	12	5 + 0.5	1.0	16	13	31	35	50	HS 50
40-60	1 5/8"-2 3/8"	12	5 + 0.5	1.0	16	13	31	39	25	HS 60
50-70	2"-2 3/4"	12	5 + 0.5	1.0	16	13	31	43	25	HS 70
60-80	2 3/8"-3 1/8"	12	5 + 0.5	1.0	16	13	31	45	25	HS 80
70-90	2 3/4"-3 1/2"	12	5 + 0.5	1.0	16	13	37	52	25	HS 90
80-100	3 1/8"-4"	12	5 + 0.5	1.0	16	13	37	53	10	HS 100
90-110	3 1/2"-4 3/8"	12	5 + 0.5	1.0	16	13	37	53	10	HS 110
100-120	4"-4 3/4"	12	5 + 0.5	1.0	16	13	37	58	10	HS 120
110-130	4 3/8"-5 1/8"	12	5 + 0.5	1.0	16	13	37	60	10	HS 130
120-140	4 3/4"-5 1/2"	12	5 + 0.5	1.0	16	13	37	63	10	HS 140
130-150	5 1/8"-5 7/8"	12	5 + 0.5	1.0	16	13	37	69	5	HS 150
140-160	5 1/2"-6 1/4"	12	5 + 0.5	1.0	16	13	37	71	5	HS 160
150-170	5 7/8"-6 5/8"	12	5 + 0.5	1.0	16	13	37	74	5	HS 170
160-180	6 1/4"-7"	12	5 + 0.5	1.0	16	13	37	77	5	HS 180
170-190	6 1/2"-7 1/2"	12	5 + 0.5	1.0	16	13	37	79	1	HS 190
180-200	7 1/8"-8"	12	5 + 0.5	1.0	16	13	37	81	1	HS 200
190-210	7 1/2"-8 1/4"	12	5 + 0.5	1.0	16	13	37	86	1	HS 210
200-220	8"-8 3/4"	12	5 + 0.5	1.0	16	13	37	92	1	HS 220
210-230	8 1/8"-9"	12	5 + 0.5	1.0	16	13	37	98	1	HS 230
220-240	8 3/4"-9 3/8"	12	5 + 0.5	1.0	16	13	37	101	1	HS 240
230-250	9"-9 3/4"	12	5 + 0.5	1.0	16	13	37	105	1	HS 250
240-260	9 3/8"-10 1/4"	12	5 + 0.5	1.0	16	13	37	108	1	HS 260
250-270	9 3/4"-10 1/2"	12	5 + 0.5	1.0	16	13	37	112	1	HS 270
260-280	10 1/4"-11"	12	5 + 0.5	1.0	16	13	37	116	1	HS 280



High-Performance Hose Clips

DIN 3017 of Stainless Steel W5

- Hose clips of stainless steel W5
- Optimum sealing through high band tension – maximum strip-safety
- Hose-protective through rounded edges
- Thinner screw body with new position. therefore improved torque
- Material and clamp range stamped at inner band side
- Hexagon screw with slotted head
- Regularly spaced tension over complete hose diameter
- Up to size 90 in boxes. size 100 in plastic bags
- For safe, fast and removable use on various hoses and fittings for different fluids

Material	Norm	Medium	Hexagon
W 5	DIN 3017	aggressive	SW 7*

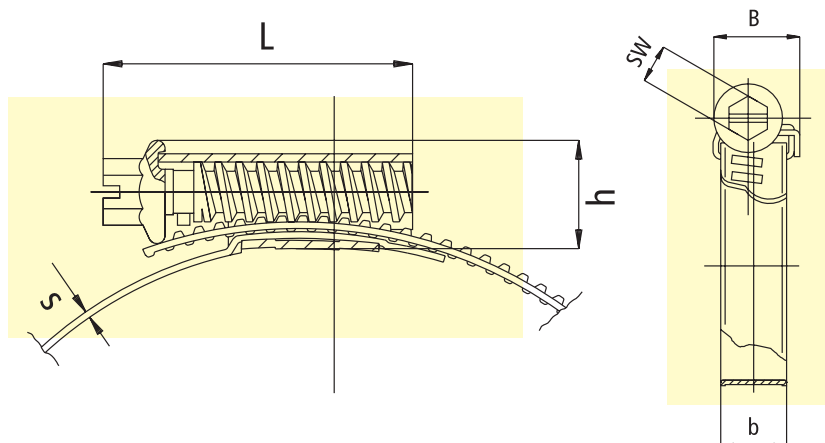
High-Performance Hose Clips. band and lock stainless steel W 5

Range	Band-width		torque		B	h	L	Weight/pc. g	Type No.
	mm	inch	b	s					
8–12	5/18"–1/2"	8	1.5	0.7	10.5	9.5	17	6	100 HSE 12
8–16	5/18"–5/8"	9	2 + 0.5	0.8	14	14.5	21	11	100 HSE 16
12–20	1/2"–3/4"	9	2 + 0.5	0.8	14	14.5	24	13	100 HSE 20
16–25	5/8"–1"	9	3 + 0.5	0.8	14	14.5	24	14	100 HSE 25
20–32	3/4"–1 1/4"	9	3 + 0.5	0.8	14	14.5	24	15	100 HSE 32
25–40	1"–1 5/8"	9	3 + 0.5	0.8	14	14.5	26	18	50 HSE 40
32–50	1 1/4"–2"	9	3 + 0.5	0.8	14	14.5	26	18	50 HSE 50
40–60	1 5/8"–2 3/8"	9	3 + 0.5	1.0	14	14.5	26	20	25 HSE 60
50–70	2"–2 3/4"	9	3 + 0.5	1.0	14	14.5	26	21	25 HSE 70
60–80	2 3/8"–3 1/8"	9	3 + 0.5	1.0	14	14.5	26	23	25 HSE 80
70–90	2 3/4"–3 1/2"	9	3 + 0.5	1.0	14	14.5	26	25	25 HSE 90
80–100	3 1/8"–4"	9	3 + 0.5	1.0	14	14.5	26	28	10 HSE 100

*HSE 12 Hexagon 6 mm

Special Screw Driver hexagon. SW 7. with plastic handle

Type	Material	Weight/pc. g	Type No.
Rigid	steel chromated	89	1 SR STARR
Flexible	steel chromated	134	1 SR FLEX.



Ferrules for Low Pressure Hose Lines

- Ferrules of redhotted steel, zinc plated and yellow passivated
- Easy, fast and absolutely safe hose crimping with **LUDECKE**-Hand-operated assembly machine SPR 333 up to type LPH-23
- No danger of hurt, closed and unremovable connection
- For crimping of various hoses and fittings for different fluids

Max. Working Pressure		Material		Medium					
PN 16 bar		red hotted steel		various					
For hoses									
Ø Inside	DIN 20018	Water	PVC	Assembly-Machine	l	d	g	Weight/pc.	Type No.
12.5				SPR 333	17	8.5	3	100	LPH-12.5
13.5			6 x 3	SPR 333	20	9.3	5	100	LPH-13.5
14.5	6 x 3.5			SPR 333	17	10	5	100	LPH-14.5
16			8 x 3	SPR 333	17	11.5	5	100	LPH-16
18	9 x 3.5		10 x 3	SPR 333	20	13.5	7	100	LPH-18
19			12 x 3	SPR 333	20	13.9	9	100	LPH-19
19.5				SPR 333	26	14.5	10	100	LPH-19.5
21				SPR 333	26	14.5	12	100	LPH-21
22				SPR 333	32	17	16	100	LPH-22
23		13 x 3		SPR 333	32	17	18	100	LPH-23
25	13 x 5				32	17	19	100	LPH-25
28	15 x 6				32	20.5	22	100	LPH-28
30.5		19 x 4			33	24.3	24	100	LPH-30
33	19 x 6				35	24.8	40	100	LPH-33
38		25 x 4.5			35	28	47	25	LPH-38
41	25 x 7				40	30	64	25	LPH-41

For higher Working Pressure we recommend hydraulic crimping with turned steel-ferrules type PH (© catalogue page 219) or on request.



Hand-operated Assembly Machine for low pressure ferrules

- Crimping machine for easy and safe assembly of low-pressure hoses from 3 to 20 mm Hose i.D.
- **Clean:** Exact assembling of fitting, hose and ferrule through centric crimping of the ferrule
- **Cheap:** Fast assembling at reasonable costs
- **Safe:** Improved safety through perfect fit
- **Elegant:** Reduced danger of hurt
- With two crimping-jaw sets for crimping range from 3 to 20 mm and from 10 to 20 mm.
- **Flexible:** For mobile use

For hoses					
Hose i.D.	Hose o.D.	Suitable ferrule	e.g. for fitting	Weight/pc. kg	Type No.
3–20 mm	10–22 mm	LPH 12.5-23	Pneumatic-Connect., Quick-Couplings	12.2	SPR-333

