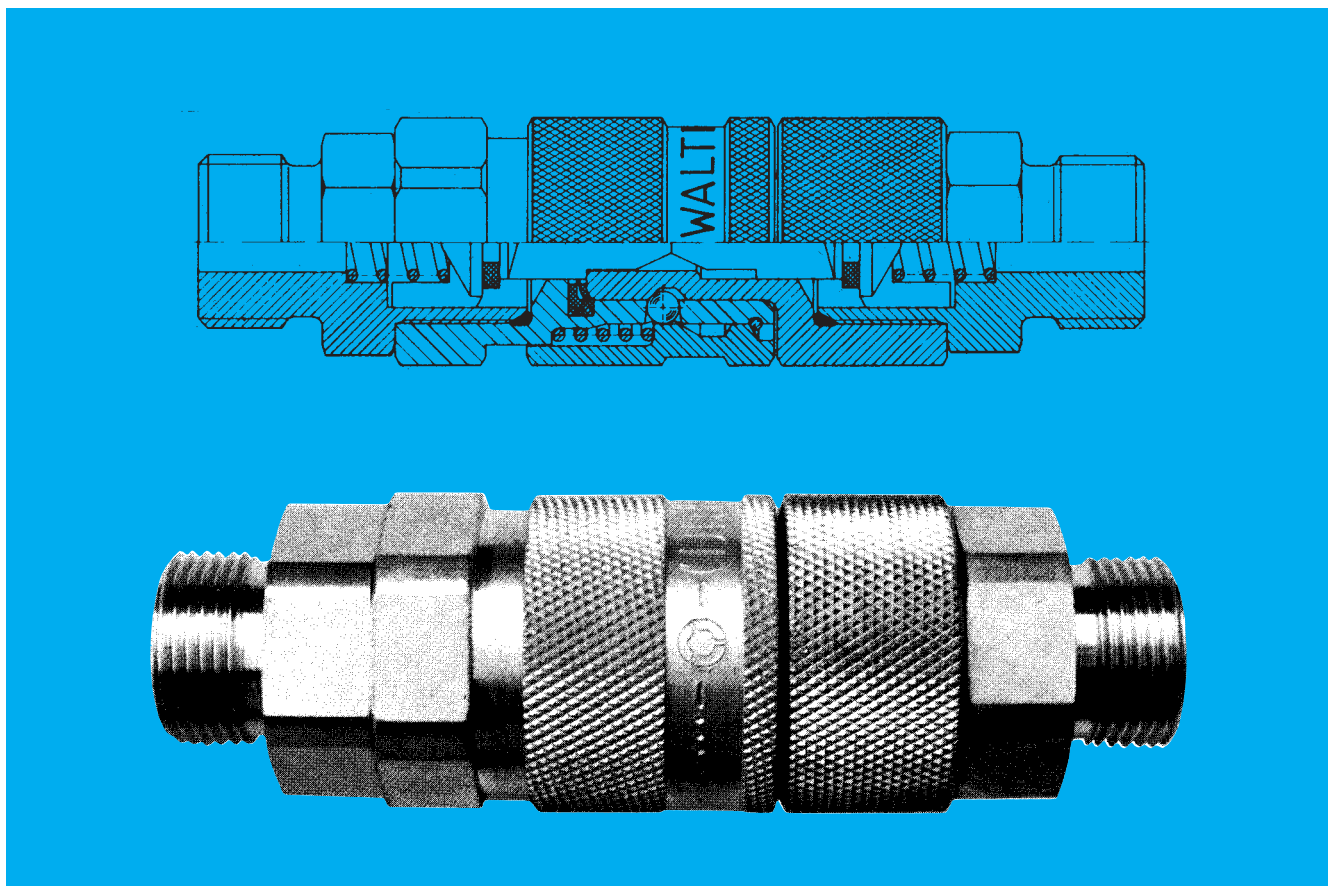


Nom. bore	Type	Max. static working pressure [bar/psi]			C <sub>v</sub> value		Cross section [mm <sup>2</sup> ]	Page
		steel	brass	st. st.	both sides self sealing	one side self sealing		
2.5	06-003	–	100	–	–	0.165	5	11
3	LP-003	–	200	–	–	0.21	8	12
3	07-003	–	200	200	0.14	–	7.1	13
4	LP-004	60	20	20	0.3	0.36	13	14
4	LV-004	–	20	20	0.3	–	13	15
6	LP-006	60	40	40	0.73	1.13	30	16 – 17
6	SP-006	100	60	60	0.77	1.1	30	18 – 19
7	LP-007	50	40	40	1.17	1.5	40	20 – 21
9	SP-009	100	40	40	2.1	2.41	64	22 – 23
12	LP-012	50	30	30	3.28	4.34	120	24 – 25
19	LP-019	50	30	30	8.4	11.6	300	26 – 27
32	LP-032	30	30	30	23.8	29.4	800	28 – 29
50	LP-050	30	20	20	59	68	2000	30 – 31
Performance diagrams								32 – 33
Multiway connectors								34

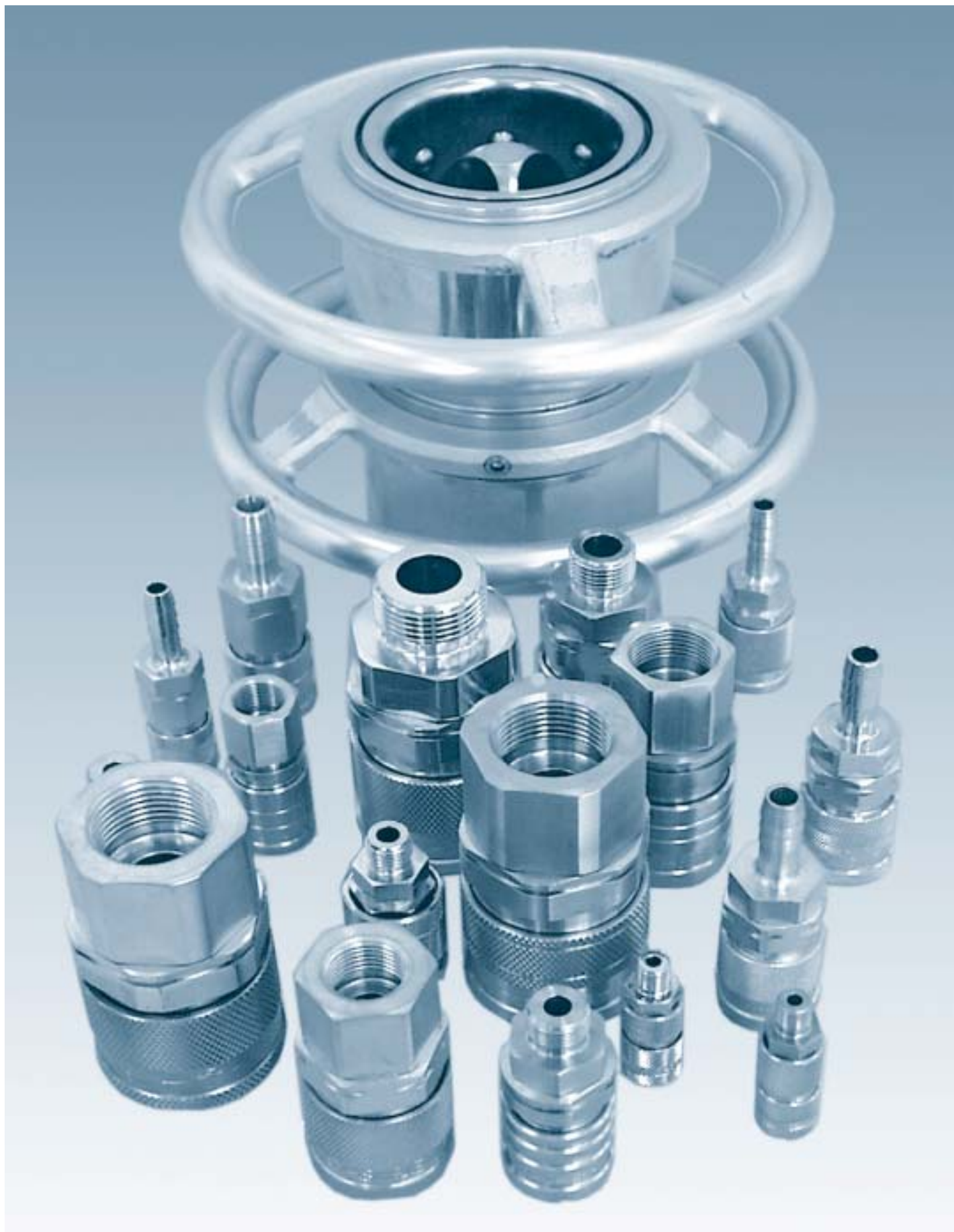
Types LV-004, LP-006, SP-006, LP-007, SP-009 and LP-012 in stainless steel are supplied with gripping grooves instead of knurling as a standard feature



## 10 Low pressure Series LP

The series LP offers couplings with one side or both sides self sealing and valves in nominal bore 2.5 to 50 mm. This series is supplied in different materials and surface coatings.

With the exception of types LP-032 and LP-050 the LP series is also suitable for vacuum applications (in connected condition).



**characteristic features:**  
 - automatic lock (one hand operation)  
 - mini coupling

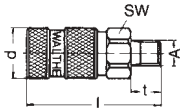
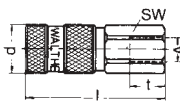
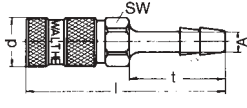
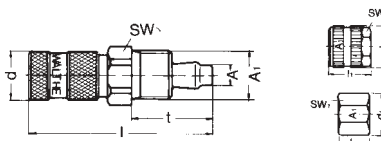
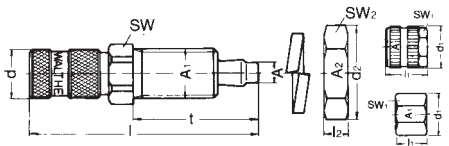
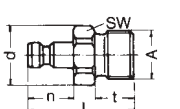
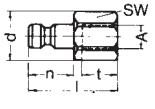

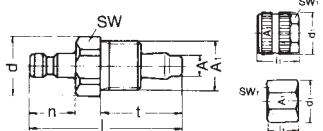
**materials:**  
**standard:**  
 23 = brass, nickel plated

**seal qualities:**  
 1 = NBR  
 2 = FKM  
 4 = EPDM

**optional features:**  
 OV = without valve  
 (no one hand operation)

Please note the technical data on pages 2 - 7, 32 - 33 and the max. working pressures on page 9

Availability: ● Short    ◐ Medium    ○ Long

	Part No.	Connec- tion A	brass nickel plated	A <sub>1</sub>	SW	SW <sub>1</sub>	l	l <sub>1</sub>	d	d <sub>1</sub>	t	n	weight [g]	
				A <sub>2</sub>		SW <sub>2</sub>		l <sub>2</sub>		d <sub>2</sub>				
Self sealing couplings	 male thread	06-003-0-XX001-23-	●		9		26,5		10		6		8	
		06-003-0-XX010-23-	●		11		30,5		10		10		12	
	 female thread	06-003-0-XX015-23-	●		9		28		10		7		11	
	 hose connection	06-003-0-SL004-23-	●		9		39,5		10		19		10	
	 re-usable hose connection with swivel nut for plastic pipes	06-003-0-SW003-23-	OD 5 ID 3 mm	●	M 7 x 0,5 —	9 —	7 —	32,5 —	9 —	10 —	8 —	12 —		11
		06-003-0-SW004-23-	OD 6 ID 4 mm	●	M 10 x 1 —	11 —	13 —	36,5 —	13,5 —	10 —	14,3 —	16 —		21
 re-usable hose connection with swivel nut for plastic pipes and with counternut for bulkhead mounting, max. thickness 4 mm	06-003-0-XX017-23-	OD 5 ID 3 mm	○	M 7 x 0,5 M 7 x 0,5	9 11	7 11	45,5 —	9 3	10 —	8 12	25 —		24	
	06-003-0-XX006-23-	OD 6 ID 4 mm	●	M 10 x 1 M 10 x 1	11 17	13 17	45,5 —	13,5 5	10 —	14,3 18,9	25 —		25	
Thru type adaptors	 male thread	06-003-1-XX001-23	●		9		19		9,9		6	9	4	
		06-003-1-WR010-23	◐		11		21		12		8	9	6	
	 female thread	06-003-1-XX015-23	◐		9		18		9,9		7	9	5	
	 hose connection	06-003-1-SL004-23	●					29,5		6		19	9	3
	 re-usable hose connection with swivel nut for plastic pipes	06-003-1-SW003-23	OD 5 ID 3 mm	●	M 7 x 0,5 —	8 —	7 —	25 —	9 —	8,9 —	8 —	12 —	9	5
06-003-1-SW004-23		OD 6 ID 4 mm	◐	M 10 x 1 —	11 —	13 —	29 —	13,5 —	12 —	14,3 —	16 —	9	17	

**characteristic features:**  
- automatic lock (one hand operation)

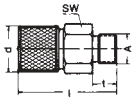
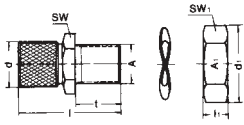
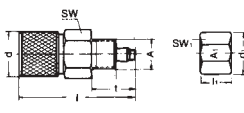
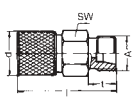
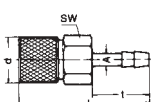
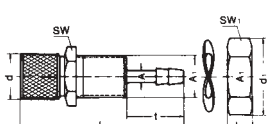
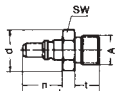
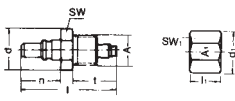
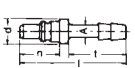
**materials:**  
**standard:**  
23 = brass, nickel plated

**seal qualities:**  
1 = NBR  
2 = FKM  
4 = EPDM

**optional features:**  
OV = without valve

Please note the technical data on pages 2 - 7, 32 - 33 and the max. working pressures on page 9

Availability: ● Short ○ Medium ○ Long

	Part No.	Connection A/A <sub>1</sub>	brass nickel-plated	pipe od	n.b.	SF/SF <sub>1</sub>	l	l <sub>1</sub>	d	d <sub>1</sub>	t	n	Weight [g]	
Self sealing couplings	 British standard pipe parallel (BSPP) male thread to DIN ISO 228	LP-003-0-WR010-23-.	BSPP 1/8"	●			14 —	32,5	15		8		32	
	 male thread to DIN ISO 228 for bulkhead mounting (max. thickness 2 mm), complete with counternut	LP-003-0-XX016-23-.	BSPP 1/4"	○			17 22	34	6	15	23,9	15		46
	 re-usable hose connection with swivel nut for plastic pipes	LP-003-0-SW004-23-.	OD 6 ID 4 mm M 10 x 1	○			14 13	40,5	13,5	15	14,3	16		50
	 metric male thread with 24° sealing cone to DIN 2353 (light duty series L)	LP-003-0-L0612-23-.	M 12 x 1,5	○	6	4	14 —	34,5		15		10		38
	 hose connection	LP-003-0-SL004-23-.	4 mm	●			14 —	44,5		15		19		36
	 male thread with 4 mm hose connection for bulkhead mounting (max. thickness 2 mm) complete with counternut	LP-003-0-XX004-23-.	4 mm M 14 x 1,5	●			17 19	54,5	6	15	25,4	19		50
Thru type adaptors	 British standard pipe parallel (BSPP) male thread to DIN ISO 228	LP-003-1-WR010-23	BSPP 1/8"	●			12 —	25	13,8		8	13	9	
	 re-usable hose connection with swivel nut for plastic pipes	LP-003-1-SW004-23	OD 6 ID 4 mm M 10 x 1	○			12 13	33	13,5	13,2	14,3	16	13	17
	 hose connection	LP-003-1-SL004-23	4 mm	●				35		8		19	13	4

**characteristic features:**  
- automatic lock (one hand operation)

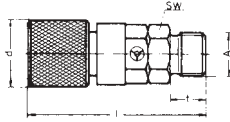
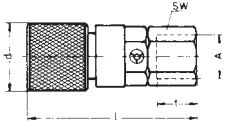
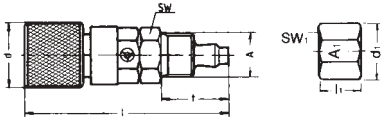
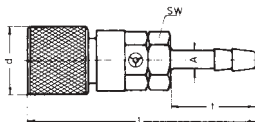
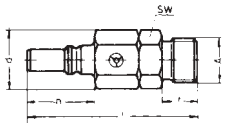
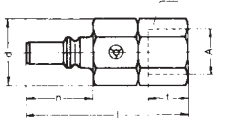
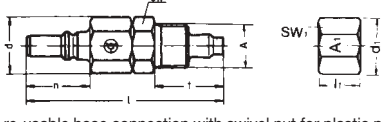
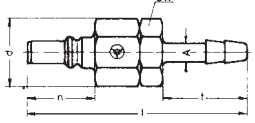
**materials:**  
**standard:**  
23 = brass, nickel plated

**seal qualities:**  
1 = NBR  
2 = FKM  
4 = EPDM

**special materials:**  
1 = stainless steel 1.4404/1.4571 or similar

Please note the technical data on pages 2 - 7, 32 - 33 and the max. working pressures on page 9

Availability: ● Short    ◐ Medium    ○ Long

	Part No.	Connection A/ A <sub>1</sub>	brass nickel plated	AISI 316 ti//1.4571	pipe od	n.b.	d	d <sub>i</sub>	SW SW <sub>i</sub>	l	l <sub>i</sub>	t	n	Weight [g]
Self sealing couplings	 British standard pipe parallel (BSPP) male thread to DIN ISO 228	07-003-0-WR010-...-	BSPP 1/8"	●	○		15		12 —	39,8		8		32
	 British standard pipe parallel (BSPP) female thread to DIN ISO 228	07-003-0-WR510-...-	BSPP 1/8"	○	○		15		12 —	37,8		9		30
	 re-usable hose connection with swivel nut for plastic pipes	07-003-0-SW004-...-	OD 6 ID 4 mm M 10 x 1	○	○		15	14,3	12 13	47,8	13,5	16		41
	 hose connection	07-003-0-SL004-...-	4 mm	○	○		15		12 —	51,8		19		32
Self sealing adaptors	 British standard pipe parallel (BSPP) male thread to DIN ISO 228	07-003-2-WR010-...-	BSPP 1/8"	●	○		13,2		12 —	38		8	15	18
	 British standard pipe parallel (BSPP) female thread to DIN ISO 228	07-003-2-WR510-...-	BSPP 1/8"	○	○		13,2		12 —	36		9	15	15
	 re-usable hose connection with swivel nut for plastic pipes	07-003-2-SW004-...-	OD 6 ID 4 mm M 10 x 1	○	○		13,2	14,3	12 13	46	13,5	16	15	27
	 hose connection	07-003-2-SL004-...-	4 mm	○	○		13,2		12 —	50		19	15	17

optional features:  
OV = without valve

see also type LV-004 in extended version and with non squirt feature (in stainless steel or alternatively brass passivated)

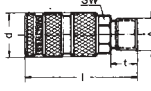
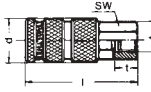
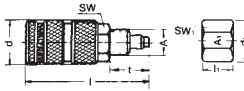
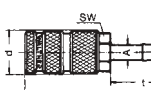
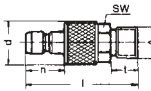
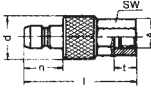
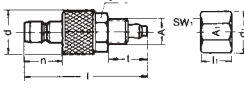
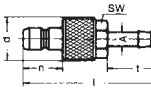
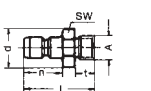
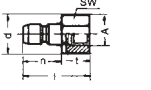
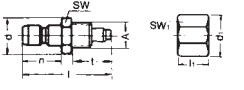

materials:  
standard:  
11 = steel, zinc plated  
21 = brass, passivated  
23 = brass, nickel plated

special materials:  
31 = aluminium anodized silver  
13 = steel, chem. nickel plated  
24 = brass, chem. nickel plated

seal qualities:  
1 = NBR  
2 = FKM  
4 = EPDM

Please note the technical data on pages 2 - 7, 32 - 33 and the max. working pressures on page 9

Availability: ● Short ● Medium ○ Long

	Part No.	Connection A/ A <sub>1</sub>	steel zinc-plated	brass passivated	brass nickel-plated	pipe od	n.b.	d	d <sub>1</sub>	SF/SF <sub>1</sub>	l/l <sub>1</sub>	t	n	Weight [g]
Self sealing couplings	 <p>British standard pipe parallel (BSPP) male thread to DIN ISO 228</p>	LP-004-0-WR010-...	BSPP 1/8"	●	●	●		18		14/-	45,5/-	8		50
		LP-004-0-WR013-...	BSPP 1/4"	●	●	○		18		14/-	46,5/-	11		55
	 <p>British standard pipe parallel (BSPP) female thread to DIN ISO 228</p>	LP-004-0-WR510-...	BSPP 1/8"	●	●	●		18		14/-	45,5/-	9		55
		 <p>re-usable hose connection with swivel nut for plastic pipes</p>	LP-004-0-SW004-...	OD 6 ID 4 mm M 10 x 1		●	○		18	14,3	14/13	51,5/13,5	16	
 <p>hose connection</p>	LP-004-0-SL004-...		4 mm	●	●	●		18		12/-	50/-	19	15	47
	LP-004-0-SL006-...	6 mm	●	●	●		18		14/-	60,5/-	25		50	
Self sealing adaptors	 <p>British standard pipe parallel (BSPP) male thread to DIN ISO 228</p>	LP-004-2-WR010-...	BSPP 1/8"	●	●	●		18		14/-	45/-	8	16	36
		LP-004-2-WR013-...	BSPP 1/4"	●	●	○		18		14/-	46/-	11	16	41
	 <p>British standard pipe parallel (BSPP) female thread to DIN ISO 228</p>	P-004-2-WR510-...	BSPP 1/8"	●	●	●		18		14/-	45/-	9	16	41
		 <p>re-usable hose connection with swivel nut for plastic pipes</p>	LP-004-2-SW004-...	OD 6 ID 4 mm		●	○		18	14,3	14/13	51/13,5	16	16
 <p>hose connection</p>	LP-004-2-SL004-...		4 mm	●	●	●		18		14/-	53/-	18	16	33
	LP-004-2-SL006-...	6 mm	●	●	●		18		14/-	60/-	25	16	36	
Thru type adaptors	 <p>British standard pipe parallel (BSPP) male thread to DIN ISO 228</p> <p>metric ISO fine-pitch thread, male to DIN 13 with pitch 1,0 mm</p>	LP-004-1-WR010-...	BSPP 1/8"	●	●	●		16,2		14/-	29/-	8	16	15
		LP-004-1-WR013-...	BSPP 1/4"	●	●	○		16,2		14/-	32/-	11	16	20
		LP-004-1-4M010-...	M 10 x 1		●	○		14,8		13/-	28/-	8	16	17
	 <p>British standard pipe parallel (BSPP) female thread to DIN ISO 228</p>	LP-004-1-WR510-...	BSPP 1/8"	●	●	○		16,2		14/-	29/-	9	16	18
		 <p>re-usable hose connection with swivel nut for plastic pipes</p>	LP-004-1-SW004-...	OD 6 ID 4 mm		○	○		13,2	14,3	12/13	37/13,5	16	16
	 <p>hose connection</p>		LP-004-1-SL004-...	4 mm		○	○		12			37/-	18	16
LP-004-1-SL006-...		6 mm	●	●	○		12			44/-	25	16	11	

**characteristic features:**

- extended version
- non squirt feature
- stainless steel version 1.4404/1.4571 or similar in smooth variant with gripping grooves instead of knurling

**materials:**

- standard:**  
 21 = brass, passivated  
 01 = stainless steel 1.4404/1.4571 or similar

**seal qualities:**

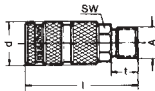
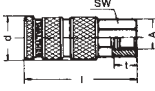
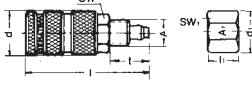
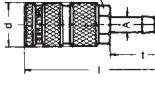
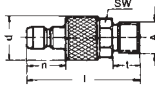
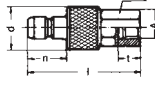
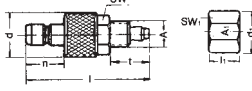
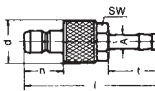
- 1 = NBR
- 2 = FKM
- 4 = EPDM

**optional features:**

OV = without valve

Please note the technical data on pages 2 - 7, 32 - 33 and the max. working pressures on page 9

Availability: ● Short ○ Medium ○ Long

	Part No.	Connection A/A <sub>1</sub>	brass passivated	AISI 316 ti/1.4571	pipe od	n.b.	d	d <sub>1</sub>	AF/AF <sub>1</sub>	l	l <sub>1</sub>	t	n	Weight [g]
Self sealing couplings	 <p>British standard pipe parallel (BSPP) male thread to DIN ISO 228</p>	LV-004-0-WR010-...-	BSP 1/8"	●	○		18		14/-	50,5		8		55
		LV-004-0-WR013-...-	BSP 1/4"	●	○		18		14/-	51,5		11		60
	 <p>British standard pipe parallel (BSPP) female thread to DIN ISO 228</p>	LV-004-0-WR510-...-	BSP 1/8"	●	○		18		14/-	50,5		9		60
		 <p>re-usable hose connection with swivel nut for plastic pipes</p>	LV-004-0-SW004-...-	OD 6 ID 4 mm	●		6	4	18	14,3	14/13	56,5	13,5	16
	 <p>hose connection</p>		LV-004-0-SL004-...-	4 mm	●	○		18		14/-	58,5		18	
		LV-004-0-SL006-...-	6 mm	●	○		18		14/-	65,5		25		55
Self sealing adaptors	 <p>British standard pipe parallel (BSPP) male thread to DIN ISO 228</p>	LV-004-2-WR010-...-	BSP 1/8"	●	○		18		14/-	50		8	21	38
		LV-004-2-WR013-...-	BSP 1/4"	●	○		18		14/-	51		11	21	43
	 <p>British standard pipe parallel (BSPP) female thread to DIN ISO 228</p>	LV-004-2-WR510-...-	BSP 1/8"	●	○		18		14/-	50		9	21	42
		 <p>re-usable hose connection with swivel nut for plastic pipes</p>	LV-004-2-SW004-...-	OD 6 ID 4 mm M 10 x 1	●			18	14,3	14/13	56	13,5	16	21
	 <p>hose connection</p>		LV-004-2-SL004-...-	4 mm	●	○		18		14/-	58		18	21
		LV-004-2-SL006-...-	6 mm	●	○		18		14/-	65		25	21	38

**characteristic features:**  
 - non squirt feature  
 - can be coupled with type KL-006 (plastic version)  
 - stainless steel version 1.4404/1.4571 or similar  
 in smooth variant with gripping grooves instead of knurling

**optional features:**  
 OV = without valve  
 SI = with additional axial safety lock  
 (outer diameter 29 mm)  
 VH = with locking aid

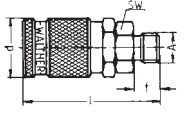
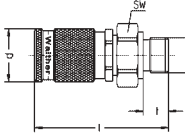
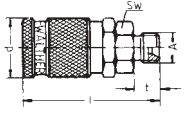
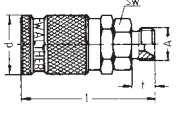
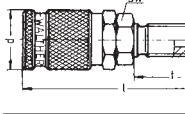
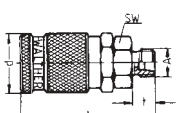
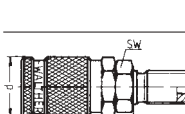
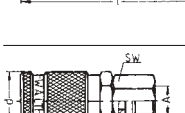
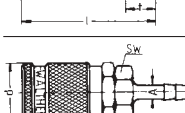
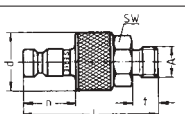
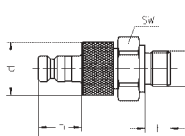
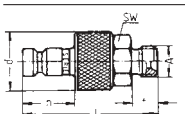
**materials:**  
**standard:**  
 11 = steel, zinc plated  
 21 = brass, passivated  
 22 = brass, chrome plated  
 01 = stainless steel 1.4404/1.4571 or similar

**special materials:**  
 13 = steel, chem. nickel plated  
 24 = brass, chem. nickel plated  
 31 = aluminium anodized silver

**seal qualities:**  
 1 = NBR  
 2 = FKM  
 4 = EPDM

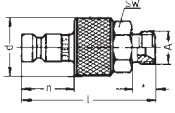
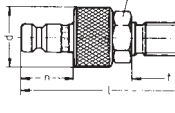
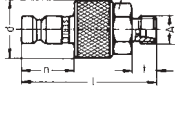
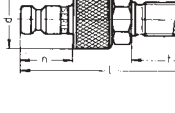
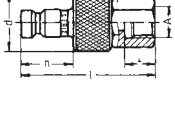
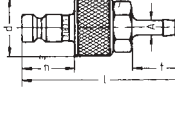

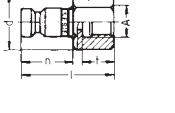

Please note the technical data on pages 2 - 7, 32 - 33 and the max. working pressures on page 9

Availability: ● Short ○ Medium ○ Long

	Part No.	Connec- tion A	steel zinc	brass	brass	AISI 316 Ti/	series	pipe OD	n. b.	d	SW	l	t	n	weight [g]		
			plated	passivated	chrome plated	1.4571											
Self sealing couplings	 <p>British standard pipe parallel (BSPP) male thread to DIN ISO 228</p>	LP-006-0-WR013-... LP-006-0-WR017-... LP-006-0-WR021-...	BSPP 1/4" BSPP 3/8" BSPP 1/2"	● ● ●	● ● ●	● ● ●	○ ○ ○			25 25 25	19 19 22	58 59 62	11 12 15		110 120 140		
		 <p>British standard pipe parallel (BSPP) male thread to DIN ISO 228, sealing profile "E" to DIN 3852-11 for o-ring or sealing ring.</p>	LP-006-0-WE017-...	BSPP 3/8"	●						25	27	64	12		160	
		 <p>BSPP male thread to DIN ISO 228/BS 5200 with 60° sealing cone</p>	LP-006-0-VR013-... LP-006-0-VR017-...	BSPP 1/4" BSPP 3/8"	○ ○			○ ○			6 6	25 25	19 19	58 59	11 12		110 120
	 <p>metric male thread with 60° sealing cone to DIN 7631</p>	LP-006-0-D0614-...	M 14 x 1,5	●			○			6	25	19	57	10		110	
	 <p>metric male thread with 60° sealing cone to DIN 7631, extended thread for bulkhead mounting, max. thickness 10 mm</p>	LP-006-0-DV008-...	M 14 x 1,5	○			○			6	25	19	79	32		130	
	 <p>metric male thread with 24° sealing cone to DIN 2353 (light duty series L, heavy duty series S)</p>	LP-006-0-L0612-... LP-006-0-L0814-... LP-006-0-L1016-... LP-006-0-L1218-... LP-006-0-S0816-... LP-006-0-S1018-... LP-006-0-S1220-...	M 12 x 1,5 M 14 x 1,5 M 16 x 1,5 M 18 x 1,5 M 16 x 1,5 M 18 x 1,5 M 20 x 1,5	● ● ● ○ ○ ● ●			○ ○ ○ ○ ○ ○ ○	L L L L S S S	6 8 10 12 8 10 12	4 6 8 10	25 25 25 25 25 25 25	19 19 19 19 19 19 22	57 57 58 58 59 59 59	10 10 11 11 12 12 12		110 110 110 110 120 120 130	
		 <p>metric male thread with 24° sealing cone to DIN 2353 (light duty series L, heavy duty series S), extended thread, max. bulkhead thickness 10 mm</p>	LP-006-0-LV008-... LP-006-0-XX211-...	M 14 x 1,5 M 16 x 1,5	● ○			○ ○	L L	8 10	6 8	25 25	19 19	79 79	32 32		130 140
		 <p>British standard pipe parallel (BSPP) female thread to DIN ISO 228</p>	LP-006-0-WR513-... LP-006-0-WR517-...	BSPP 1/4" BSPP 3/8"	● ●	● ●	● ●	○ ○			25 25	19 22	57 58	13 14		120 120	
			 <p>hose connection</p>	LP-006-0-SL006-... LP-006-0-SL009-... LP-006-0-SL011-... LP-006-0-SL013-...	6 mm 9 mm 11 mm 13 mm	● ● ● ●	● ● ● ●	● ● ● ●	○ ○ ○ ○			25 25 25 25	19 19 19 19	72 77 77 77	25 30 30 30		110 110 120 130
		Self sealing adaptors	 <p>British standard pipe parallel (BSPP) male thread to DIN ISO 228</p>	LP-006-2-WR013-... LP-006-2-WR017-... LP-006-2-WR021-...	BSPP 1/4" BSPP 3/8" BSPP 1/2"	● ● ●	● ● ●	● ● ●	○ ○ ○			25 25 25	19 19 22	56 57 60	11 12 15	20 20 20	85 90 110
 <p>British standard pipe parallel (BSPP) male thread to DIN ISO 228, sealing profile "E" to DIN 3852-11 for o-ring or sealing ring.</p>				LP-006-2-WE017-...	BSPP 3/8"	●						25	27	62	12	20	130
 <p>BSPP male thread to DIN ISO 228/BS 5200 with 60° sealing cone</p>	LP-006-2-VR013-... LP-006-2-VR017-...			BSPP 1/4" BSPP 3/8"	○ ○			○ ○			6 6	25 25	19 19	56 57	11 12	20 20	85 90



Availability: ● Short ● Medium ○ Long

	Part No.	Conne- tion A	steel zinc	brass	passivated	brass chrome	AISI 316 ti/ 1.4571	series	pipe OD	n. b.	d	SW	l	t	n	weight [g]	
			plated			plated											
Self sealing adaptors	 metric male thread with 60° sealing cone to DIN 7631	LP-006-2-D0614-...-	M 14 x 1,5	●				○			6	25	19	55	10	20	85
	 metric male thread with 60° sealing cone to DIN 7631, extended thread for bulkhead mounting, max. thickness 10 mm	LP-006-2-DV008-...-	M 14 x 1,5	○				○			6	25	19	77	32	20	100
	 metric male thread with 24° sealing cone to DIN 2353 (light duty series L, heavy duty series S)	LP-006-2-L0612-...-	M 12 x 1,5	●				○	L	6	4	25	19	55	10	20	80
		LP-006-2-L0814-...-	M 14 x 1,5	●				○	L	8	6	25	19	55	10	20	85
		LP-006-2-L1016-...-	M 16 x 1,5	●				○	L	10	8	25	19	56	11	20	85
		LP-006-2-L1218-...-	M 18 x 1,5	○				○	L	12	10	25	19	56	11	20	85
		LP-006-2-S0816-...-	M 16 x 1,5	○				○	S	8	4	25	19	57	12	20	90
		LP-006-2-S1018-...-	M 18 x 1,5	●				○	S	10	6	25	19	57	12	20	90
	LP-006-2-S1220-...-	M 20 x 1,5	●				○	S	12	8	25	22	57	12	20	100	
	 metric male thread with 24° sealing cone to DIN 2353 (light duty series L, heavy duty series S), extended thread, max. bulkhead thickness 10 mm	LP-006-2-LV008-...-	M 14 x 1,5	●				○	L	8	6	25	19	77	32	20	100
LP-006-2-XX211-...-		M 16 x 1,5	○				○	L	10	8	25	19	77	32	20	110	
 British standard pipe parallel (BSPP) female thread to DIN ISO 228	LP-006-2-WR513-...-	BSPP 1/4"	●	●	●	○					25	19	55	13	20	90	
	LP-006-2-WR517-...-	BSPP 3/8"	●	●	●	○					25	22	56	14	20	95	
 hose connection	LP-006-2-SL006-...-	6 mm	●	●	●	○					25	19	70	25	20	80	
	LP-006-2-SL009-...-	9 mm	●	●	●	○					25	19	75	30	20	85	
	LP-006-2-SL011-...-	11 mm	●	●	●	○					25	19	75	30	20	90	
	LP-006-2-SL013-...-	13 mm	●	●	●	○					25	19	75	30	20	100	
 British standard pipe parallel (BSPP) male thread to DIN ISO 228	LP-006-1-WR010-..	BSPP 1/8"	●	○	○	○					15,5	14	34	8	20	22	
	LP-006-1-WR013-..	BSPP 1/4"	●	●	●	○					15,5	14	38	11	20	25	
	LP-006-1-WR017-..	BSPP 3/8"	●	●	○	○					21	19	40,5	12	20	39	
 British standard pipe parallel (BSPP) female thread to DIN ISO 228	LP-006-1-WR510-..	BSPP 1/8"	○	○	○	○					16,5	15	31	9	20	20	
	LP-006-1-WR513-..	BSPP 1/4"	●	●	●	○					18,9	17	36	13	20	28	
	LP-006-1-WR517-..	BSPP 3/8"	●	●	●	○					24	22	38	14	20	44	
 hose connection	LP-006-1-SL006-...	6 mm	●	●	●	○					12		46		20	16	
	LP-006-1-SL009-...	9 mm	●	●	●	○					12		51		20	20	
	LP-006-1-SL011-...	11 mm	●	●	●	○					16		53		20	31	
	LP-006-1-SL013-...	13 mm	●	●	●	○					16		53		20	41	

Series LP

characteristic features:  
 - stainless steel version 1.4404/1.4571 or similar  
 in smooth variant with gripping grooves instead  
 knurling

optional features:  
 OV = without valve

materials:  
 standard:  
 11 = steel, zinc plated  
 21 = brass, passivated  
 22 = brass, chrome plated  
 01 = stainless steel 1.4404/1.4571 or similar

special materials:  
 31 = aluminium anodized silver  
 13 = steel, chem. nickel plated  
 24 = brass, chem. nickel plated

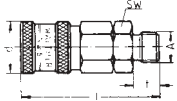
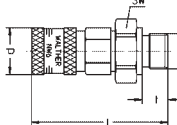
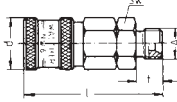
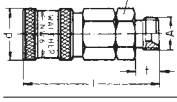
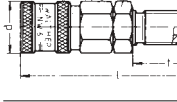
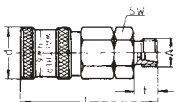
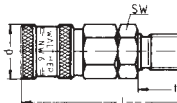
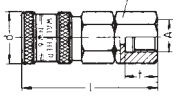
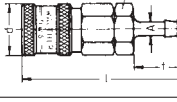
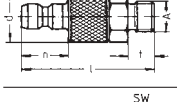

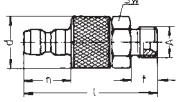
seal qualities:  
 1 = NBR  
 2 = FKM  
 4 = EPDM

Please note the  
 technical data on  
 pages 2 - 7, 32 - 33 and the  
 max. working pressures  
 on page 9

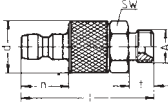
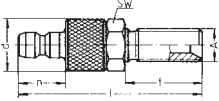
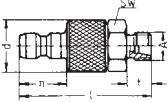
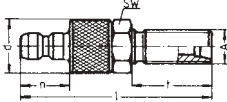
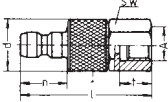
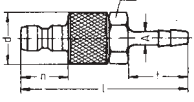
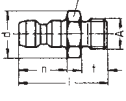
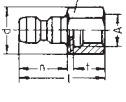
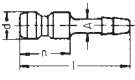
Availability: ● Short ○ Medium ○ Long

Self sealing couplings

Self sealing adaptors

	Part No.	Connec- tion A	steel zinc plated	brass passivated	brass chrome plated	AISI 316 Ti/ 1.4571	series	pipe OD	n. b.	d	SW	l	t	n	weight [g]
 <p>British standard pipe parallel (BSPP) male thread to DIN ISO 228</p>	SP-006-0-WR013-...	BSPP 1/4"	●	●	●	○				22	19	58	11		90
	SP-006-0-WR017-...	BSPP 3/8"	●	●	●	○				22	19	59	12		95
	SP-006-0-WR021-...	BSPP 1/2"	●	●	●	○				22	22	62	15		120
 <p>British standard pipe parallel (BSPP) male thread to DIN ISO 228, sealing profile "E" to DIN 3852-11 for o-ring or sealing ring.</p>	SP-006-0-WE017-...	BSPP 3/8"	●							22	27	64	12		130
 <p>BSPP male thread to DIN ISO 228/BS 5200 with 60° sealing cone</p>	SP-006-0-VR013-...	BSPP 1/4"	○			○			6	22	19	58	11		90
	SP-006-0-VR017-...	BSPP 3/8"	○			○			6	22	19	59	12		95
 <p>metric male thread with 60° sealing cone to DIN 7631</p>	SP-006-0-D0614-...	M 14 x 1,5	○			○			6	22	19	57	10		85
 <p>metric male thread with 60° sealing cone to DIN 7631, extended thread for bulkhead mounting, max. thickness 10 mm</p>	SP-006-0-DV008-...	M 14 x 1,5	○			○			6	22	19	79	32		105
 <p>metric male thread with 24° sealing cone to DIN 2353 (light duty series L, heavy duty series S)</p>	SP-006-0-L0612-...	M 12 x 1,5	●			○	L	6	4	22	19	57	10		85
	SP-006-0-L0814-...	M 14 x 1,5	●			○	L	8	6	22	19	57	10		85
	SP-006-0-L1016-...	M 16 x 1,5	●			○	L	10	8	22	19	58	11		90
	SP-006-0-L1218-...	M 18 x 1,5	○			○	L	12	10	22	19	58	11		90
	SP-006-0-S0816-...	M 16 x 1,5	○			○	S	8	4	22	19	59	12		90
	SP-006-0-S1018-...	M 18 x 1,5	○			○	S	10	6	22	19	59	12		95
	SP-006-0-S1220-...	M 20 x 1,5	●			○	S	12	8	22	22	59	12		100
 <p>metric male thread with 24° sealing cone to DIN 2353 (light duty series L, heavy duty series S), extended thread, max. bulkhead thickness 10 mm</p>	SP-006-0-LV008-...	M 14 x 1,5	●			○	L	8	6	22	19	79	32		100
	SP-006-0-XX211-...	M 16 x 1,5	○			○	L	10	8	22	19	79	32		110
 <p>British standard pipe parallel (BSPP) female thread to DIN ISO 228</p>	SP-006-0-WR513-...	BSPP 1/4"	●	●	●	○				22	19	57	13		95
	SP-006-0-WR517-...	BSPP 3/8"	●	●	●	○				22	22	58	14		100
 <p>hose connection</p>	SP-006-0-SL006-...	6 mm	●	●	●	○				22	19	72	25		85
	SP-006-0-SL009-...	9 mm	●	●	●	○				22	19	77	30		90
	SP-006-0-SL011-...	11 mm	●	●	●	○				22	19	77	30		95
	SP-006-0-SL013-...	13 mm	●	●	●	○				22	19	77	30		110
 <p>British standard pipe parallel (BSPP) male thread to DIN ISO 228</p>	SP-006-2-WR013-...	BSPP 1/4"	●	●	●	○				22	19	56	11	20	70
	SP-006-2-WR017-...	BSPP 3/8"	●	●	●	○				22	19	57	12	20	75
	SP-006-2-WR021-...	BSPP 1/2"	●	●	●	○				22	22	60	15	20	100
 <p>British standard pipe parallel (BSPP) male thread to DIN ISO 228, sealing profile "E" to DIN 3852-11 for o-ring or sealing ring.</p>	SP-006-2-WE017-...	BSPP 3/8"	●							22	27	62	12	20	110
 <p>BSPP male thread to DIN ISO 228/BS 5200 with 60° sealing cone</p>	SP-006-2-VR013-...	BSPP 1/4"	○			○			6	22	19	56	11	20	70
	SP-006-2-VR017-...	BSPP 3/8"	○			○			6	22	19	57	12	20	75

Availability: ● Short ● Medium ○ Long

	Part No.	Conne- tion A	steel zinc plated	brass passivated	brass chrome plated	AISI 316 Ti/ 1.4571	series	pipe OD	n. b.	d	SW	l	t	n	weight [g]
Self sealing adaptors	 metric male thread with 60° sealing cone to DIN 7631	SP-006-2-D0614-... M 14 x 1,5	○			○			6	22	19	55	10	20	70
	 metric male thread with 60° sealing cone to DIN 7631, extended thread for bulkhead mounting, max. thickness 10 mm	SP-006-2-DV008-... M 14 x 1,5	○			○			6	22	19	77	32	20	90
	 metric male thread with 24° sealing cone to DIN 2353 (light duty series L, heavy duty series S)	SP-006-2-L0612-... M 12 x 1,5	●			○	L	6	4	22	19	55	10	20	70
		SP-006-2-L0814-... M 14 x 1,5	●			○	L	8	6	22	19	55	10	20	70
		SP-006-2-L1016-... M 16 x 1,5	●			○	L	10	8	22	19	56	11	20	70
		SP-006-2-L1218-... M 18 x 1,5	○			○	L	12	10	22	19	56	11	20	70
		SP-006-2-S0816-... M 16 x 1,5	○			○	S	8	4	22	19	57	12	20	75
		SP-006-2-S1018-... M 18 x 1,5	○			○	S	10	6	22	19	57	12	20	75
		SP-006-2-S1220-... M 20 x 1,5	○			○	S	12	8	22	22	57	12	20	85
	 metric male thread with 24° sealing cone to DIN 2353 (light duty series L, heavy duty series S), extended thread, max. bulkhead thickness 10 mm	SP-006-2-LV008-... M 14 x 1,5	●			○	L	8	6	22	19	77	32	20	85
SP-006-2-XX211-... M 16 x 1,5		○			○	L	10	8	22	19	77	32	20	95	
 British standard pipe parallel (BSPP) female thread to DIN ISO 228	SP-006-2-WR513-... BSPP 1/4"	●	●	●	○			22	19	55	13	20	75		
	SP-006-2-WR517-... BSPP 3/8"	●	●	●	○			22	22	56	14	20	80		
 hose connection	SP-006-2-SL006-... 6 mm	●	●	●	○			22	19	70	25	20	70		
	SP-006-2-SL009-... 9 mm	●	●	●	○			22	19	75	30	20	70		
	SP-006-2-SL011-... 11 mm	●	●	●	○			22	19	75	30	20	80		
	SP-006-2-SL013-... 13 mm	●	●	●	○			22	19	75	30	20	90		
 British standard pipe parallel (BSPP) male thread to DIN ISO 228	SP-006-1-WR010-... BSPP 1/8"	●	●	●	○			15,5	14	34	8	20	20		
	SP-006-1-WR013-... BSPP 1/4"	●	●	●	○			15,5	14	37	11	20	23		
	SP-006-1-WR017-... BSPP 3/8"	●	●	●	○			21,9	19	38	12	20	37		
 British standard pipe parallel (BSPP) female thread to DIN ISO 228	SP-006-1-WR513-... BSPP 1/4"	●	●	●	○			19,6	17	36	13	20	26		
	SP-006-1-WR517-... BSPP 3/8"	●	●	●	○			24	22	37	14	20	40		
 hose connection	SP-006-1-SL006-... 6 mm	●	●	●	○			11		46		20	13		
	SP-006-1-SL009-... 9 mm	●	●	●	○			11		51		20	18		

**characteristic features:**  
 - non squirt feature  
 - stainless steel version 1.4404/1.4571 or similar  
 in smooth variant with gripping grooves instead knurling

**optional features:**  
 OV = without valve  
 S = with additional axial safety lock  
 (outer diameter 34 mm)  
 VH = with locking aid

**materials:**  
**standard:**  
 11 = steel, zinc plated  
 21 = brass, passivated  
 22 = brass, chrome plated  
 01 = stainless steel 1.4404/1.4571 or similar

**special materials:**  
 13 = steel, chem. nickel plated  
 24 = brass, chem. nickel plated

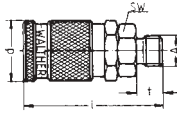
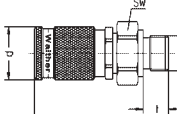
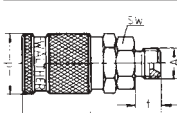
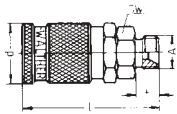
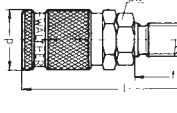
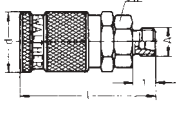
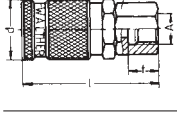
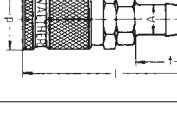
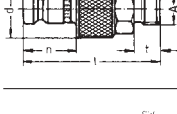
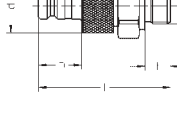
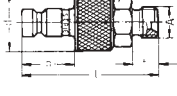
**seal qualities:**  
 1 = NBR  
 2 = FKM  
 4 = EPDM

Please note the technical data on pages 2 - 7, 32 - 33 and the max. working pressures on page 9

Availability: ● Short ○ Medium ○ Long

Self sealing couplings

Self sealing adaptors

	Part No.	Connec- tion A	steel zinc plated	brass passivated	brass chrome plated	AISI 316 Ti/ 1.4571	series	pipe OD	n. b.	d	SW	l	t	n	weight [g]
 <p>British standard pipe parallel (BSPP) male thread to DIN ISO 228</p>	LP-007-0-WR017-... LP-007-0-WR021-...	BSPP 3/8" BSPP 1/2"	● ●	● ●	● ●	○ ○				30 30	24 24	68 71	12 15		200 210
	 <p>British standard pipe parallel (BSPP) male thread to DIN ISO 228, sealing profile "E" to DIN 3852-11 for o-ring or sealing ring.</p>	LP-007-0-WE017-...	BSPP 3/8"	●						30	27	71	12		220
 <p>BSPP male thread to DIN ISO 228/BS 5200 with 60° sealing cone</p>		LP-007-0-VR017-...	BSPP 3/8"	○			○			7	30	24	68	12	
	 <p>metric male thread with 60° sealing cone to DIN 7631</p>	LP-007-0-D0816-...	M 16 x 1,5	○			○			8	30	24	67	11	
 <p>metric male thread with 60° sealing cone to DIN 7631, extended thread for bulkhead mounting, max. thickness 10 mm</p>		LP-007-0-DV010-...	M 16 x 1,5	○			○			8	30	24	89,5	33,5	
	 <p>metric male thread with 24° sealing cone to DIN 2353 (light duty series L, heavy duty series S)</p>	LP-007-0-L1016-... LP-007-0-L1218-... LP-007-0-S1018-... LP-007-0-S1220-...	M 16 x 1,5 M 18 x 1,5 M 18 x 1,5 M 20 x 1,5	● ● ● ●			○ ○ ○ ○	L L S S	10 12 10 12	8 10 6 8	30 30 30 30	24 24 24 24	67 67 68 68	11 11 12 12	
 <p>British standard pipe parallel (BSPP) female thread to DIN ISO 228</p>		LP-007-0-WR517-... LP-007-0-WR521-...	BSPP 3/8" BSPP 1/2"	● ●	● ●	● ●	○ ○			30 30	24 27	68 71	14 17		210 230
		 <p>hose connection</p>	LP-007-0-SL009-... LP-007-0-SL011-... LP-007-0-SL013-...	9 mm 11 mm 13 mm	● ● ●	● ● ●	● ● ●	○ ○ ○			30 30 30	24 24 24	86 86 86	30 30 30	
 <p>British standard pipe parallel (BSPP) male thread to DIN ISO 228</p>			LP-007-2-WR017-... LP-007-2-WR021-...	BSPP 3/8" BSPP 1/2"	● ●	● ●	● ●	○ ○			30 30	24 24	66 69	12 15	23,3 23,3
	 <p>British standard pipe parallel (BSPP) male thread to DIN ISO 228, sealing profile "E" to DIN 3852-11 for o-ring or sealing ring.</p>		LP-007-2-WE017-...	BSPP 3/8"	●						30	27	69	12	23,3
 <p>BSPP male thread to DIN ISO 228/BS 5200 with 60° sealing cone</p>		LP-007-2-VR017-...	BSPP 3/8"	○			○			7	30	24	66	12	23,3

Availability: ● Short ● Medium ○ Long

	Part No.	Conne- tion A	steel zinc plated	brass passivated	brass chrome plated	AISI 316 Ti/ 1.4571	series	pipe OD	n. b.	d	SW	l	t	n	weight [g]
Self sealing adaptors	LP-007-2-D0816-...-	M 16 x 1,5	○			○			8	30	24	65	11	23,3	150
	LP-007-2-DV010-...-	M 16 x 1,5	○			○			8	30	24	87,5	33,5	23,3	160
	LP-007-2-L1016-...-	M 16 x 1,5	●			○	L	10	8	30	24	65	11	23,3	140
	LP-007-2-L1218-...-	M 18 x 1,5	●			○	L	12	10	30	24	65	11	23,3	140
	LP-007-2-S1018-...-	M 18 x 1,5	●			○	S	10	6	30	24	66	12	23,3	150
	LP-007-2-S1220-...-	M 20 x 1,5	●			○	S	12	8	30	24	66	12	23,3	150
	LP-007-2-WR517-...-	BSPP 3/8"	●	●	●	●				30	24	66	14	23,3	160
	LP-007-2-WR521-...-	BSPP 1/2"	●	●	●	○				30	27	69	17	23,3	180
	LP-007-2-SL009-...-	9 mm	●	●	●	○				30	24	84	30	23,3	150
	LP-007-2-SL011-...-	11 mm	●	●	●	○				30	24	84	30	23,3	150
LP-007-2-SL013-...-	13 mm	●	●	●	●				30	24	84	30	23,3	160	
Thru type adaptors	LP-007-1-WR013-...-	BSPP 1/4"	●	○	○	○				18,9	17	40,5	11	23,3	35
	LP-007-1-WR017-...-	BSPP 3/8"	●	○	○	○				21	19	41,5	12	23,3	45
	LP-007-1-WR021-...-	BSPP 1/2"	●	●	●	○				26,7	24	44,5	15	23,3	70
	LP-007-1-WR513-...-	BSPP 1/4"	●	○	○	○				18,9	17	40,5	13	23,3	37
	LP-007-1-WR517-...-	BSPP 3/8"	●	●	●	○				24	22	41,5	14	23,3	55
	LP-007-1-WR521-...-	BSPP 1/2"	●	●	●	○				30	27	44,5	17	23,3	75
	LP-007-1-SL009-...-	9 mm	●	●	○	○						54,5	30	23,3	29
	LP-007-1-SL011-...-	11 mm	●	●	●	○				14		56,5	30	23,3	37
	LP-007-1-SL013-...-	13 mm	●	●	●	○				18		56,5	30	23,3	46
	LP-007-1-SL013-...-	13 mm	●	●	●	○				18		56,5	30	23,3	46

Series LP

characteristic features:  
 - stainless steel version 1.4404/1.4571 or similar  
 in smooth variant with gripping grooves instead  
 knurling

optional features:  
 OV = without valve

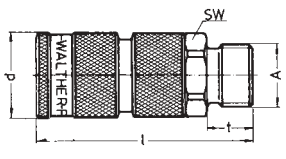
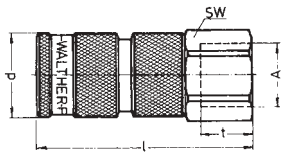
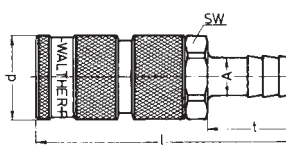
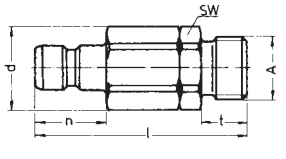
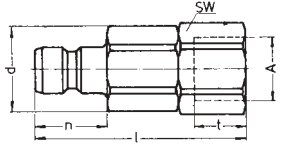
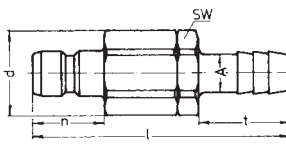
materials:  
 standard:  
 11 = steel, zinc plated  
 21 = brass, passivated  
 22 = brass, chrome plated  
 01 = stainless steel 1.4404/1.4571 or similar

special materials:  
 13 = steel, chem. nickel plated  
 24 = brass, chem. nickel plated

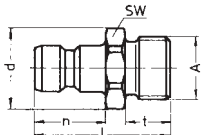
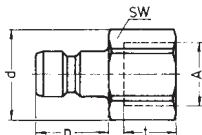
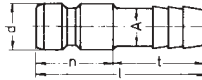
seal qualities:  
 1 = NBR  
 2 = FKM  
 4 = EPDM

Please note the  
 technical data on  
 pages 2 - 7, 32 - 33 and the  
 max. working pressures  
 on page 9

Availability: ● Short ○ Medium ○ Long

	Part No.	Connec- tion A	steel zinc	brass	brass chrome	AISI 316 Ti/	series	pipe OD	n. b.	d	SW	l	t	n	weight [g]
			plated	passivated	plated	1.4571									
Self sealing couplings	 <p>British stan- dard pipe parallel (BSPP) male thread to DIN ISO 228</p>	SP-009-0-WR017-...- SP-009-0-WR021-...-	BSPP 3/8" BSPP 1/2"	● ●	● ●	○ ○	○ ○			28 28	25 25	71 71	12 15		180 190
		 <p>British stan- dard pipe parallel (BSPP) fe- male thread to DIN ISO 228</p>	SP-009-0-WR521-...-	BSPP 1/2"	●	●	○	○			28	27	71	17	
	 <p>hose connection</p>	SP-009-0-SL013-...-	13 mm	●	●	○	○			28	25	86	30		180
Self sealing adaptors	 <p>British stan- dard pipe parallel (BSPP) male thread to DIN ISO 228</p>	SP-009-2-WR017-...-Z02 SP-009-2-WR021-...-Z02	BSPP 3/8" BSPP 1/2"	● ●	● ●	○ ○	○ ○			28 28	25 25	69,5 69,5	12 15	23,5 23,5	120 130
		 <p>British stan- dard pipe parallel (BSPP) fe- male thread to DIN ISO 228</p>	SP-009-2-WR521-...-Z02	BSPP 1/2"	●	●	○	○			28	27	69,5	17	23,5
	 <p>hose connection</p>	SP-009-2-SL013-...-Z02	13 mm	●	●	○	○			28	25	84,5	30	23,5	130

Availability: ● Short ◐ Medium ○ Long

	Part No.	Conne- tion A	steel zinc	brass	passivated	brass chrome	AISI 316 ti/ 1.4571	series	pipe OD	n. b.	d	SW	l	t	n	weight [g]	
			plated			plated											
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Thru type adaptors</p>  <p>British standard pipe parallel (BSPP) male thread to DIN ISO 228</p>	<p>SP-009-1-WR017-...</p> <p>SP-009-1-WR021-...</p>	<p>BSPP 3/8"</p> <p>BSPP 1/2"</p>	●	◐	○	○					21,9 24	19 22	41,5 46,5	12 15	23,5 23,5	40 60	
	 <p>British standard pipe parallel (BSPP) female thread to DIN ISO 228</p>	<p>SP-009-1-WR521-...</p>	<p>BSPP 1/2"</p>	●	○	○	○					30	27	45	17	23,5	75
	 <p>hose connection</p>	<p>SP-009-1-SL013-..</p>	<p>13 mm</p>	○	●	○	○					15		55	30	23,5	37

**characteristic features:**  
 - non squirt feature  
 - can be coupled with type KL-012 (plastic version)  
 - stainless steel version 1.4404/1.4571 or similar  
 in smooth variant with gripping grooves instead of knurling

**optional features:**  
 OV = without valve  
 SI = with additional axial safety lock  
 (outer diameter 44 mm)  
 VH = with locking aid

**materials:**  
**standard:**  
 11 = steel, zinc plated  
 21 = brass, passivated  
 22 = brass, chrome plated  
 01 = stainless steel 1.4404/1.4571 or similar

**special materials:**  
 13 = steel, chem. nickel plated  
 24 = brass, chem. nickel plated

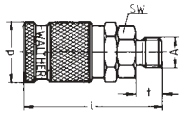
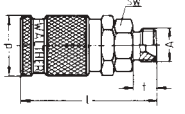
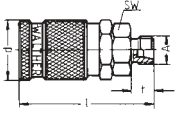
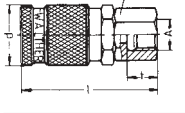
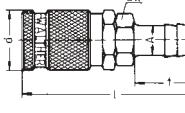
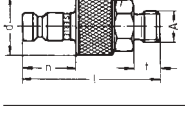
**seal qualities:**  
 1 = NBR  
 2 = FKM  
 4 = EPDM

Please note the technical data on pages 2 - 7, 32 - 33 and the max. working pressures on page 9

**Availability:** ● Short ○ Medium ○ Long

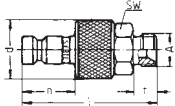
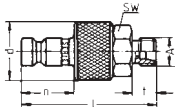
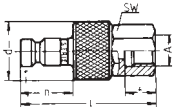
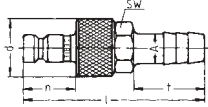
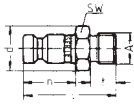
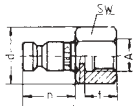
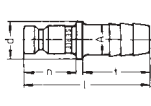
Self sealing couplings

Self sealing adaptors

	Part No.	Connec- tion A	steel zinc plated	brass passivated	brass chrome plated	AISI 316 Ti/ 1.4571	series	pipe OD	n. b.	d	SW	l	t	n	weight [g]
 <p>British standard pipe parallel (BSPP) male thread to DIN ISO 228</p>	LP-012-0-WR021-... LP-012-0-WR026-... LP-012-0-WR033-...	BSPP 1/2" BSPP 3/4" BSPP 1"	● ● ●	● ○ ○	○ ○ ○	○ ○ ○				40 40 40	32 32 36	82 84 88	15 17 20		380 410 470
	LP-012-0-WE021-...	BSPP 1/2"	●							40	32	84	14		390
	LP-012-0-VR021-... LP-012-0-VR026-...	BSPP 1/2" BSPP 3/4"	● ●			○ ○			12 12	40 40	32 32	82 84	15 17		380 400
 <p>metric male thread with 60° sealing cone to DIN 7631</p>	LP-012-0-D1018-... LP-012-0-D1222-...	M 18 x 1,5 M 22 x 1,5	● ●			○			10 12	40 40	32 32	78 79	11 12		370 380
	LP-012-0-DV015-...	M 22 x 1,5	○			○			12	40	32	106	39		430
 <p>metric male thread with 24° sealing cone to DIN 2353 (light duty series L, heavy duty series S)</p>	LP-012-0-L1218-... LP-012-0-L1522-... LP-012-0-S1624-...	M 18 x 1,5 M 22 x 1,5 M 24 x 1,5	● ● ●			○ ○ ○	L L S	12 15 16	10 12 12	40 40 40	32 32 32	78 79 81	11 12 14		370 380 390
	 <p>British standard pipe parallel (BSPP) female thread to DIN ISO 228</p>	LP-012-0-WR521-... LP-012-0-WR526-...	BSPP 1/2" BSPP 3/4"	● ●	● ●	○ ○				40 40	32 32	81 83	17 19		420 400
		 <p>hose connection</p>	LP-012-0-SL016-... LP-012-0-SL019-...	16 mm 19 mm	● ●	● ●	○ ○				40 40	32 32	102 102	35 35	
 <p>British standard pipe parallel (BSPP) male thread to DIN ISO 228</p>	LP-012-2-WR021-... LP-012-2-WR026-... LP-012-2-WR033-...	BSPP 1/2" BSPP 3/4" BSPP 1"	● ● ●	● ○ ○	○ ○ ○	○ ○ ○				40 40 40	32 32 36	80 82 86	15 17 20	29,5 29,5 29,5	290 320 380
	LP-012-2-WE021-...	BSPP 1/2"	●							40	32	82	14	29,5	300
	LP-012-2-VR021-... LP-012-2-VR026-...	BSPP 1/2" BSPP 3/4"	● ●			○ ○			12 12	40 40	32 32	80 82	15 17	29,5 29,5	290 310



Availability: ● Short ● Medium ○ Long

	Part No.	Conne- tion A	steel zinc plated	brass passivated	brass chrome plated	AISI 316 ti/ 1.4571	series	pipe OD	n. b.	d	SW	l	t	n	weight [g]	
Self sealing adaptors	 <p>metric male thread with 60° sealing cone to DIN 7631</p>	LP-012-2-D1018-... LP-012-2-D1222-...	M 18 x 1,5 M 22 x 1,5	● ●					10 12	40 40	32 32	76 77	11 12	29,5 29,5	280 290	
		LP-012-2-DV015-...	M 22 x 1,5	○						12	40	32	104	39	29,5	340
	 <p>metric male thread with 24° sealing cone to DIN 2353 (light duty series L, heavy duty series S)</p>	LP-012-2-L1218-... LP-012-2-L1522-... LP-012-2-S1624-...	M 18 x 1,5 M 22 x 1,5 M 24 x 1,5	● ● ●				L L S	12 15 16	10 12 12	40 40 40	32 32 32	76 77 79	11 12 14	29,5 29,5 29,5	280 290 290
		 <p>British standard pipe parallel (BSPP) female thread to DIN ISO 228</p>	LP-012-2-WR521-... LP-012-2-WR526-...	BSPP 1/2" BSPP 3/4"	● ●	● ●	● ●	○ ○			40 40	32 32	79 81	17 19	29,5 29,5	330 310
			 <p>hose connection</p>	LP-012-2-SL016-... LP-012-2-SL019-...	16 mm 19 mm	● ●	● ●	● ●	○ ○			40 40	32 32	100 100	35 35	29,5 29,5
Thru type adaptors	 <p>British standard pipe parallel (BSPP) male thread to DIN ISO 228</p>	LP-012-1-WR017-... LP-012-1-WR021-... LP-012-1-WR026-...	BSPP 3/8" BSPP 1/2" BSPP 3/4"	● ● ●	○ ● ●	○ ○ ○	○ ○ ○			30 30 33	27 27 30	49,5 54,5 54,5	12 15 17	29,5 29,5 29,5	90 100 140	
		 <p>British standard pipe parallel (BSPP) female thread to DIN ISO 228</p>	LP-012-1-WR521-... LP-012-1-WR526-...	BSPP 1/2" BSPP 3/4"	● ●	○ ○	○ ○	○ ○			30 35,5	27 32	50,5 52,5	17 19	29,5 29,5	100 120
			 <p>hose connection</p>	LP-012-1-SL013-... LP-012-1-SL016-... LP-012-1-SL019-...	13 mm 16 mm 19 mm	● ● ●	● ○ ●	● ○ ●	○ ○ ○			21 21 25		61 66 68,5	30 35 35	29,5 29,5 29,5

Series LP

**characteristic features:**  
 - non squirt feature  
 - stainless steel version 1.4404/1.4571 or similar  
 in smooth variant with gripping grooves instead of knurling

**optional features:**  
 GG= with ring grips (cast aluminium)  
 OV= without valve  
 SI = with additional axial safety lock  
 (outer diameter 58 mm)  
 VH= with locking aid

**materials:**  
**standard:**  
 11 = steel, zinc plated  
 21 = brass, passivated  
 22 = brass, chrome plated  
 01 = stainless steel 1.4404/1.4571 or similar

**special materials:**  
 13 = steel, chem. nickel plated  
 24 = brass, chem. nickel plated

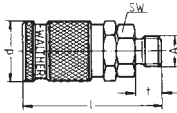
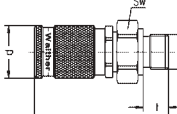
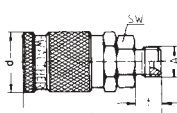
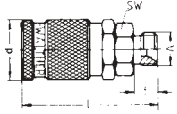
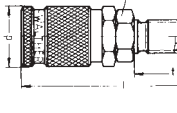
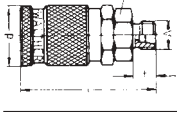
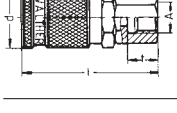
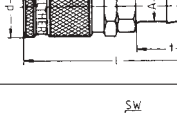
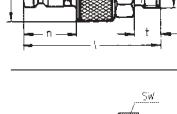
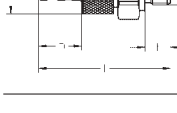

**seal qualities:**  
 1 = NBR  
 2 = FKM  
 4 = EPDM

Please note the technical data on pages 2 - 7, 32 - 33 and the max. working pressures on page 9

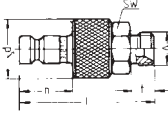
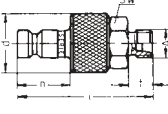
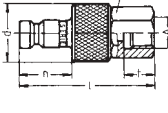
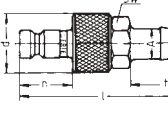
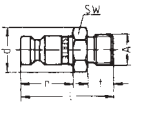
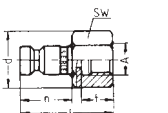
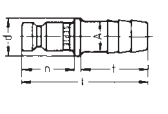
**Availability:** ● Short ○ Medium ○ Long

Self sealing couplings

Self sealing adaptors

	Part No.	Connec- tion A	steel zinc plated	brass passivated	brass chrome plated	AISI 316 Ti/ 1.4571	series	pipe OD	n. b.	d	SW	l	t	n	weight [g]
 <p>British standard pipe parallel (BSPP) male thread to DIN ISO 228</p>	LP-019-0-WR026-...-	BSPP 3/4"	●	○	○	○				54	46	100	17		840
	LP-019-0-WR033-...-	BSPP 1"	●	●	●	○				54	46	103	20		870
 <p>British standard pipe parallel (BSPP) male thread to DIN ISO 228, sealing profile "E" to DIN 3852-11 for o-ring or sealing ring.</p>	LP-019-0-WE026-...-	BSPP 3/4"	○	○	○	○				54	46	102	16		850
	 <p>BSPP male thread to DIN ISO 228/BS 5200 with 60° sealing cone</p>	LP-019-0-VR026-...-	BSPP 3/4"	○	○	○	○		19	54	46	100	17		830
LP-019-0-VR033-...-		BSPP 1"	○	○	○	○		19	54	46	103	20		870	
 <p>metric male thread with 60° sealing cone to DIN 7631</p>	LP-019-0-D1526-...-	M 26 x 1,5	○	○	○	○			15	54	46	95	12		830
	LP-019-0-D1930-...-	M 30 x 1,5	○	○	○	○			19	54	46	97	14		830
 <p>metric male thread with 60° sealing cone to DIN 7631, extended thread for bulkhead mounting, max. thickness 10 mm</p>	LP-019-0-DV022-...-	M 30 x 1,5	○	○	○	○			19	54	46	128	45		920
	 <p>metric male thread with 24° sealing cone to DIN 2353 (light duty series L, heavy duty series S)</p>	LP-019-0-L1826-...-	M 26 x 1,5	○	○	○	○	L	18	16	54	46	95	12	
LP-019-0-L2230-...-		M 30 x 2	○	○	○	○	L	22	20	54	46	97	14		830
LP-019-0-S2030-...-		M 30 x 2	○	○	○	○	S	20	16	54	46	99	16		850
LP-019-0-S2536-...-		M 36 x 2	○	○	○	○	S	25	20	54	46	101	18		860
 <p>British standard pipe parallel (BSPP) female thread to DIN ISO 228</p>	LP-019-0-WR526-...-	BSPP 3/4"	●	●	○	○				54	46	94	19		890
	LP-019-0-WR533-...-	BSPP 1"	●	●	○	○				54	46	98	23		880
 <p>hose connection</p>	LP-019-0-SL019-...-	19 mm	○	○	○	○				54	46	118	35		850
	LP-019-0-SL025-...-	25 mm	○	○	○	○				54	46	123	40		870
	LP-019-0-SL028-...-	28 mm	○	○	○	○				54	46	128	45		930
 <p>British standard pipe parallel (BSPP) male thread to DIN ISO 228</p>	LP-019-2-WR026-...-	BSPP 3/4"	●	○	○	○				54	46	96	17	32,5	690
	LP-019-2-WR033-...-	BSPP 1"	●	●	○	○				54	46	99	20	32,5	720
 <p>British standard pipe parallel (BSPP) male thread to DIN ISO 228, sealing profile "E" to DIN 3852-11 for o-ring or sealing ring.</p>	LP-019-2-WE026-...-	BSPP 3/4"	○	○	○	○				54	46	98	16	32,5	700
	 <p>BSPP male thread to DIN ISO 228/BS 5200 with 60° sealing cone</p>	LP-019-2-VR026-...-	BSPP 3/4"	○	○	○	○		19	54	46	96	17	32,5	690
LP-019-2-VR033-...-		BSPP 1"	○	○	○	○		19	54	46	99	20	32,5	720	

Availability: ● Short ● Medium ○ Long

	Part No.	Conne- tion A	steel zinc	brass	passivated	brass chrome	AISI 316 ti/ 1.4571	series	pipe OD	n. b.	d	SW	l	t	n	weight [g]	
			plated			plated											
Self sealing adaptors	 <p>metric male thread with 60° sealing cone to DIN 7631</p>	LP-019-2-D1526-... LP-019-2-D1930-...	M 26 x 1,5 M 30 x 1,5	● ●						15 19	54 54	46 46	91 93	12 14	32,5 32,5	680 680	
		LP-019-2-DV022-...	M 30 x 1,5	○				○			19	54	46	124	45	32,5	770
	 <p>metric male thread with 24° sealing cone to DIN 2353 (light duty series L, heavy duty series S)</p>	LP-019-2-L1826-... LP-019-2-L2230-... LP-019-2-S2030-... LP-019-2-S2536-...	M 26 x 1,5 M 30 x 2 M 30 x 2 M 36 x 2	● ● ● ●					L L S S	18 22 20 25	16 20 16 20	54 54 54 54	46 46 46 46	91 93 95 97	12 14 16 18	32,5 32,5 32,5 32,5	680 670 690 710
		 <p>British standard pipe parallel (BSPP) female thread to DIN ISO 228</p>	LP-019-2-WR526-... LP-019-2-WR533-...	BSPP 3/4" BSPP 1"	● ●	● ●	● ●	○ ○				54 54	46 46	90 94	19 23	32,5 32,5	740 730
			 <p>hose connection</p>	LP-019-2-SL019-... LP-019-2-SL025-... LP-019-2-SL028-...	19 mm 25 mm 28 mm	● ● ●	● ● ●	● ● ●	○ ○ ○				54 54 54	46 46 46	114 119 124	35 40 45	32,5 32,5 32,5
		Thru type adaptors	 <p>British standard pipe parallel (BSPP) male thread to DIN ISO 228</p>	LP-019-1-WR021-... LP-019-1-WR026-... LP-019-1-WR033-...	BSPP 1/2" BSPP 3/4" BSPP 1"	● ● ●	● ● ●	● ● ●	○ ○ ○				40 40 40	36 36 36	57,5 59,5 62,5	15 17 20	32,5 32,5 32,5
 <p>British standard pipe parallel (BSPP) female thread to DIN ISO 228</p>	LP-019-1-WR526-... LP-019-1-WR533-...			BSPP 3/4" BSPP 1"	● ●	● ●	● ●	○ ○				40 45	36 41	57,5 61,5	19 23	32,5 32,5	240 250
	 <p>hose connection</p>			LP-019-1-SL019-... LP-019-1-SL025-...	19 mm 25 mm	● ●	○ ●	○ ●	○ ○				32 32		68,5 73,5	35 40	32,5 32,5

Series LP

optional features:  
 SI = with additional axial safety lock  
 (outer diameter 89 mm)  
 GG = with ring grips (cast aluminium)

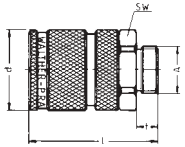
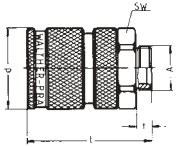
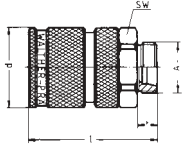
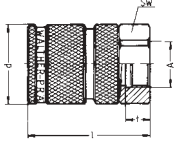
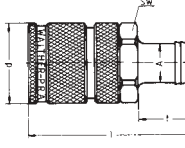
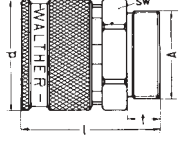
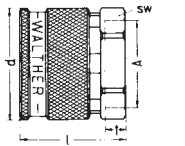
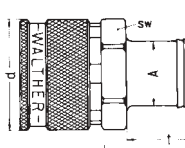
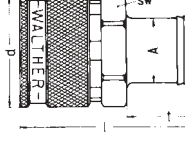
materials:  
 standard:  
 11 = steel, zinc plated  
 21 = brass, passivated  
 22 = brass, chrome plated  
 01 = stainless steel 1.4404/1.4571 or similar

seal qualities:  
 1 = NBR  
 2 = FKM  
 4 = EPDM

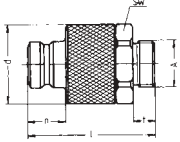
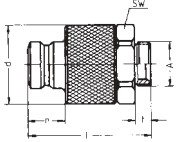
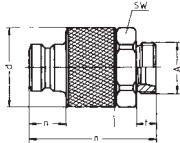
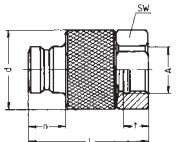
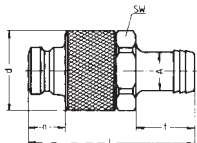
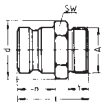
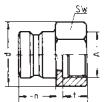

special materials:  
 13 = steel, chem. nickel plated  
 24 = brass, chem. nickel plated  
 31 = aluminium anodized silver

Please note the technical data on pages 2 - 7, 32 - 33 and the max. working pressures on page 9

Availability: ● Short ○ Medium ○ Long

	Part No.	Connec- tion A	steel zinc	brass	brass	AISI 316 L/	series	pipe OD	n. b.	d	SW	l	t	n	weight [g]
			plated	passivated	chrome plated	1.4571									
Self sealing couplings	 <p>British standard pipe parallel (BSPP) male thread to DIN ISO 228</p>	LP-032-0-WR048-... LP-032-0-WR060-...	BSPP 1 1/2"	●	○	○				82	75	139	22		2930
				○	○	○									
	 <p>metric male thread with 60° sealing cone to DIN 7631</p>	LP-032-0-D3245-...	M 45 x 1,5	●	○	○				32	82	75	128	16	2720
				 <p>metric male thread with 24° sealing cone to DIN 2353 (light duty series L, heavy duty series S)</p>	LP-032-0-S3852-...	M 52 x 2									
	 <p>British standard pipe parallel (BSPP) female thread to DIN ISO 228</p>	LP-032-0-WR548-... LP-032-0-WR560-...	BSPP 1 1/2"				●	●	○				82	75	126
○				○	○			82	75						
Thru type couplings	 <p>hose connection</p>	LP-032-0-SL042-...	42 mm	○	○					○				82	75
				 <p>British standard pipe parallel (BSPP) male thread to DIN ISO 228</p>	LP-032-4-WR048-... LP-032-4-WR060-...	BSPP 1 1/2"	○	○	○						
	○	○	○						82		70	113	26		2490
	 <p>British standard pipe parallel (BSPP) female thread to DIN ISO 228</p>	LP-032-4-WR542-... LP-032-4-WR548-... LP-032-4-WR560-...	BSPP 1 1/4"	○	○	○									
				○	○	○			82		70	89	25		1930
 <p>British standard pipe parallel (BSPP) female thread to DIN ISO 228</p>	LP-032-4-WR542-... LP-032-4-WR548-... LP-032-4-WR560-...	BSPP 1 1/2"	○	○	○										
			○	○	○				82		70	89	29		1690
 <p>hose connection</p>	LP-032-4-SL042-...	42 mm	○	○	○										

Availability: ● Short ● Medium ○ Long

	Part No.	Conne- tion A	steel zinc	brass	passivated	brass chrome	AlSi 316 ti/ 1,4571	series	pipe OD	n. b.	d	SW	l	t	n	weight [g]
			plated		brass	plated										
Self sealing adaptors	 <p>British standard pipe parallel (BSPP) male thread to DIN ISO 228</p>	LP-032-2-WR048-... LP-032-2-WR060-...	BSPP 1 1/2" BSPP 2"	● ○	● ○	● ○	○ ○				82 82	75 75	135,5 139,5	22 26	39 39	2460 2500
		 <p>metric male thread with 60° sealing cone to DIN 7631</p>	LP-032-2-D3245-...	M 45 x 1,5	●						32	82	75	124,5	16	39
	 <p>metric male thread with 24° sealing cone to DIN 2353 (light duty series L, heavy duty series S)</p>	LP-032-2-S3852-...	M 52 x 2	●				S	38	32	82	75	130,5	22	39	2280
	 <p>British standard pipe parallel (BSPP) female thread to DIN ISO 228</p>	LP-032-2-WR548-... LP-032-2-WR560-...	BSPP 1 1/2" BSPP 2"	● ●	● ●	● ●	○ ○				82 82	75 75	122,5 126,5	25 29	39 39	2390 2260
		 <p>hose connection</p>	LP-032-2-SL042-...	42 mm	○	○	○	○				82	75	174,5	61	39
Thru type adaptors	 <p>British standard pipe parallel (BSPP) male thread to DIN ISO 228</p>	LP-032-1-WR048-... LP-032-1-WR060-...	BSPP 1 1/2" BSPP 2"	● ○	○ ○	○ ○	○ ○				60 72,5	55 65	74,5 78,5	22 26	39 39	600 650
		 <p>British standard pipe parallel (BSPP) female thread to DIN ISO 228</p>	LP-032-1-WR542-... LP-032-1-WR548-... LP-032-1-WR560-...	BSPP 1 1/4" BSPP 1 1/2" BSPP 2"	● ● ○	○ ○ ●	○ ○ ●	○ ○ ○				60 65 78	55 60 70	71 71 75	25 25 29	39 39 39
	 <p>hose connection</p>	LP-032-1-SL042-..	42 mm	○	○	○	○				54		105	61	39	620

Series LP

optional features:  
 SI = with additional axial safety lock  
 (outer diameter 116 mm)  
 GG = with ring grips (cast aluminium)

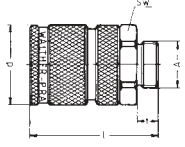
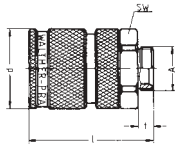
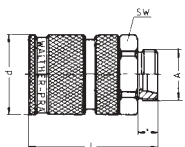
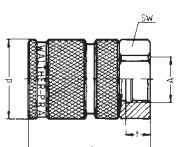
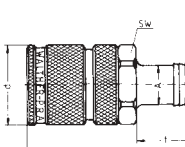
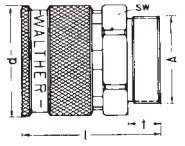
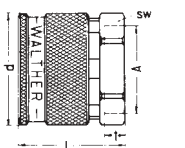
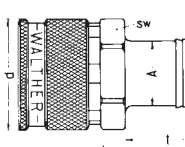
materials:  
 standard:  
 11 = steel, zinc plated  
 21 = brass, passivated  
 22 = brass, chrome plated  
 01 = stainless steel 1.4404/1.4571 or similar

seal qualities:  
 1 = NBR  
 2 = FKM  
 4 = EPDM

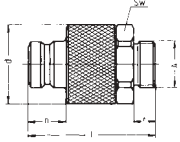
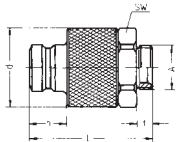
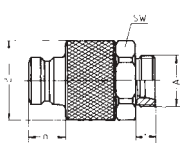
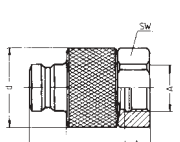
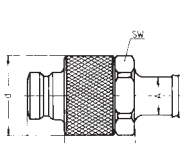
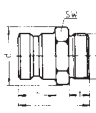
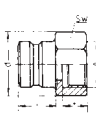

special materials:  
 13 = steel, chem. nickel plated  
 24 = brass, chem. nickel plated  
 31 = aluminium anodized silver

Please note the technical data on pages 2 - 7, 32 - 33 and the max. working pressures on page 9

Availability: ● Short ○ Medium ○ Long

	Part No.	Connec- tion A	steel zinc	brass	brass	AISI 316 Ti/	series	pipe OD	n. b.	d	SW	l	t	n	weight [g]	
			plated	passivated	chrome plated	1.4571										
Self sealing couplings	 <p>British standard pipe parallel (BSPP) male thread to DIN ISO 228</p>	LP-050-0-WR060-...- LP-050-0-WR075-...-	BSPP 2"	●	○	○	○			112	100	162	26		5550	
				BSPP 2 1/2"	○	○	○	○			112	100	164	30		5560
	 <p>metric male thread with 60° sealing cone to DIN 7631</p>	LP-050-0-D4965-...-	M 65 x 2						49	112	100	159	18		5440	
	 <p>metric male thread with 24° sealing cone to DIN 2353 (light duty series L, heavy duty series S)</p>	LP-050-0-L4252-...-	M 52 x 2	○				L	42	36	112	100	158	16		5380
	 <p>British standard pipe parallel (BSPP) female thread to DIN ISO 228</p>	LP-050-0-WR560-...- LP-050-0-WR575-...-	BSPP 2" BSPP 2 1/2"	●	○	○	○			112	100	158	29		6150	
 <p>hose connection</p>	LP-050-0-SL065-...-	65 mm								112	100	209	75		5970	
Thru type couplings	 <p>British standard pipe parallel (BSPP) male thread to DIN ISO 228</p>	LP-050-4-WR060-...- LP-050-4-WR075-...-	BSPP 2"	○	○	○	○			112	100	132,5	26		3950	
				BSPP 2 1/2"	○	○	○	○			112	100	136,5	30		4210
	 <p>British standard pipe parallel (BSPP) female thread to DIN ISO 228</p>	LP-050-4-WR560-...- LP-050-4-WR575-...-	BSPP 2" BSPP 2 1/2"	●	○	○	○			112	100	106,5	27		3800	
 <p>hose connection</p>	LP-050-4-SL065-...-	65 mm								112	100	181,5	75		4050	

Availability: ● Short ● Medium ○ Long

		Part No.	Connection A	steel zinc plated	brass	passivated brass	chromium plated	AISI 316 Ti/1.4571	series	pipe OD	n. b.	d	SW	l	t	n	weight [g]
Self sealing adaptors		British standard pipe parallel (BSPP) male thread to DIN ISO 228 <b>LP-050-2-WR060-...</b> <b>LP-050-2-WR075-...</b>	BSPP 2" BSPP 2 1/2"	●	○	○	○	○				112 112	100 100	158 160	26 30	46 46	5010 5020
		metric male thread with 60° sealing cone to DIN 7631 <b>LP-050-2-D4965-...</b>	M 65 x 2								49	112	100	155	18	46	4900
		metric male thread with 24° sealing cone to DIN 2353 (light duty series L, heavy duty series S) <b>LP-050-2-L4252-...</b>	M 52 x 2	●					L	42	36	112	100	154	16	46	4840
		British standard pipe parallel (BSPP) female thread to DIN ISO 228 <b>LP-050-2-WR560-...</b> <b>LP-050-2-WR575-...</b>	BSPP 2" BSPP 2 1/2"	●	○	○	○	○				112 112	100 100	154 163	29 33	46 46	5610 5400
		hose connection <b>LP-050-2-SL065-...</b>	65 mm									112	100	205	75	46	5430
Thru type adaptors		British standard pipe parallel (BSPP) male thread to DIN ISO 228 <b>LP-050-1-WR060-...</b>	BSPP 2"	●	○	○	○					92	85	88	26	46	1590
		British standard pipe parallel (BSPP) female thread to DIN ISO 228 <b>LP-050-1-WR560-...</b>	BSPP 2"	●	○	○	○					92	85	82	29	46	1850
		hose connection <b>LP-050-1-SL065-...</b>	65 mm		○	○	○	○				90		131	75	46	2050

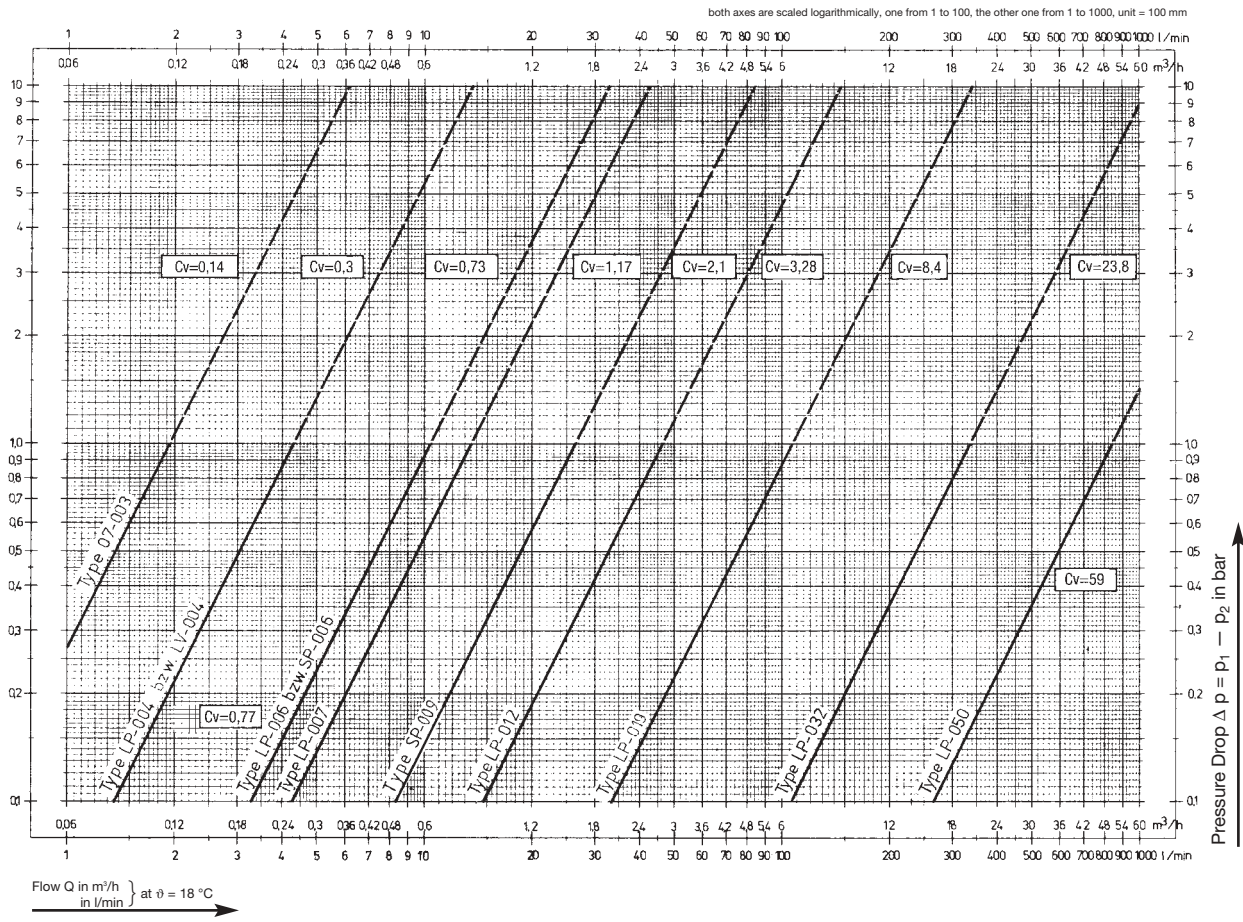
Series LP

Measurement of flow coefficients Cv according to DIN EN 60534

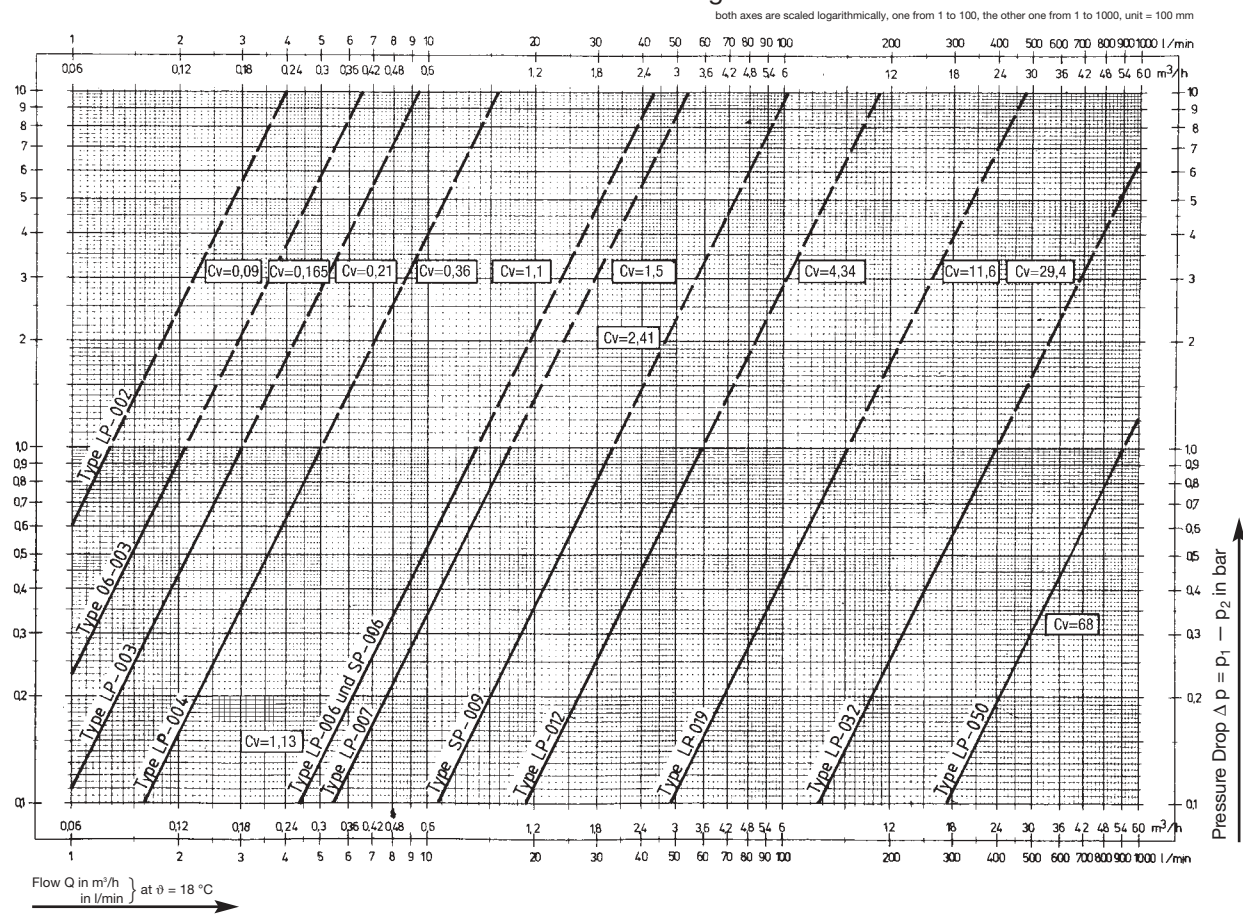
Flow speeds of 8 m/sec should not be exceeded

1 bar = 14,5 PSI

Both sides self sealing



One side self sealing



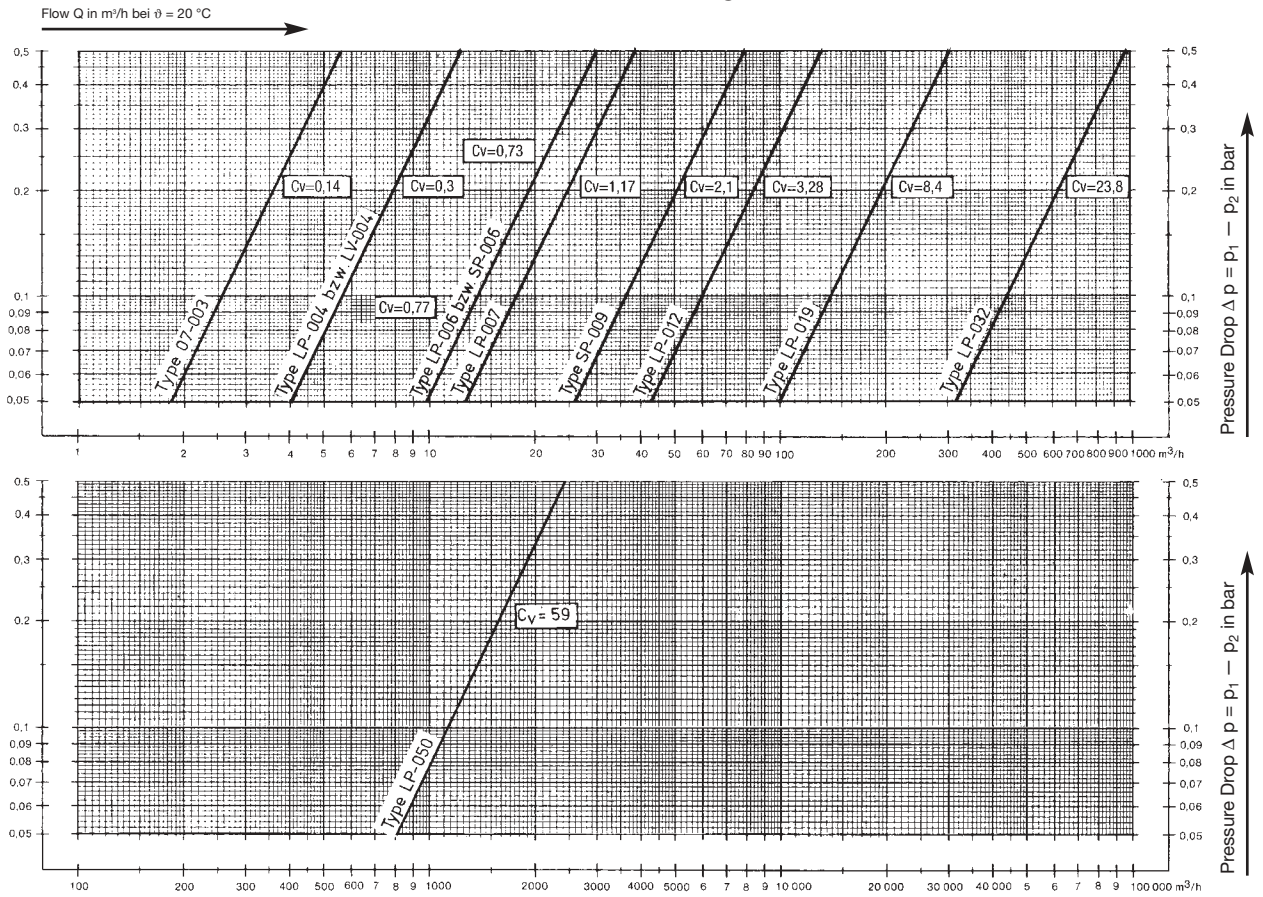


Measurement of flow coefficients  $C_v$  according to DIN EN 60534

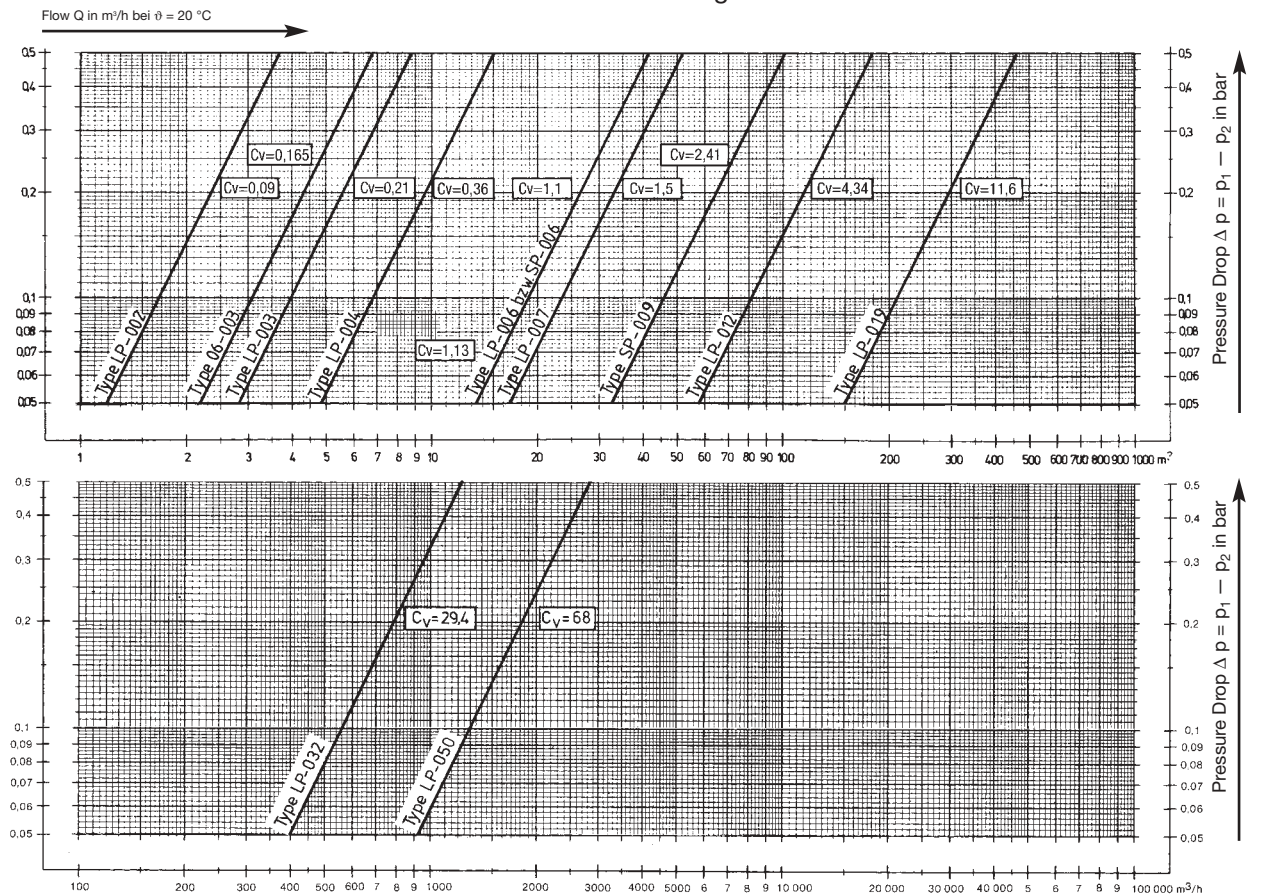
Working pressure 6 bar gauge pressure

1 bar = 14,5 PSI

Both sides self sealing



One side self sealing

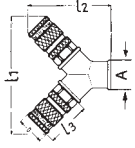
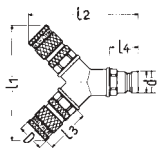


materials:  
 standard:  
 11 = steel, zinc plated

seal qualities:  
 1 = NBR  
 2 = FKM  
 4 = EPDM

special materials:  
 21 = brass, passivated  
 01 = stainless steel 1.4404/1.4571 or similar  
 50 = polyamide 11/12, grey (PA)

Availability: ● Short ○ Medium ○ Long

	Part No.	equipped with	steel zinc-plated	D	n.b.	d	d1	l	l1	l2	l3	l4	Weight [g]
 <p>British standard pipe parallel (BSPP) female thread to DIN ISO 228 and 2 self sealing couplings</p>	2R-006-0-WR517-...-	3/8" BSPP, 2 ssc LP-006	○	25	6				116	81	47,5		430
	2R-007-0-WR521-...-	1/2" BSPP, 2 ssc LP-007	○	30	7				140	96	57		710
	2R-012-0-WR533-...-	1" BSPP, 2 ssc LP-012	○	40	12				178	128	65		1440
 <p>1 thru type adaptors and 2 self sealing couplings, type LP-006</p>	2S-006-0-WR517-...-	1 tta, 2ssc, LP-006	○	25	6	12			116	110	47,5	26	430

