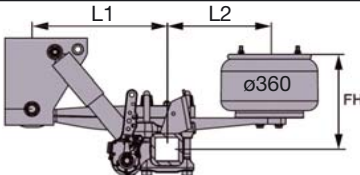
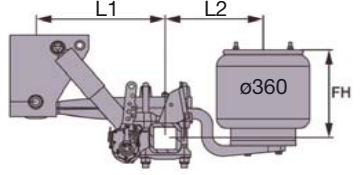
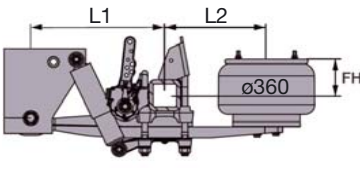


SL-Air-spring axles

Overview
Air-spring axles with drum brake

SL-SN.01
Sheet-no. I



Series	Air-spring axles and suspensions	Trailing arm 100 mm	Axle type with drum brake			Axle load	Link length L1 / L2 (mm)	Ride height FH (mm)	Suspension to drawing SL-SN.01	
			SN 4220	SN 3020	SN 3620					
SLO		Single leaf	HSF../HZF..	---	---	9 to HD	500 / 335 o. 380	400-560	Sheet 1	
		Double leaf				11-12 to	500 / 335 o. 380	415-600	Sheet 1a	
	Self-steering axles LL with off-set trailing arm	Single leaf	HSFH..LL	---	---	9 to HD	500 / 380	410-560	Sheet 2	
						11-12 to	500 / 380	445-610	Sheet 2a	
						10 to	500 / 380	425-600	Sheet 3	
						9 to HD	500 / 380	410-560	Sheet 3a	
	Self-steering axles LL with trailing arm	Single leaf	HSFH..LL	---	---	9 to HD	500 / 380	410-560	Sheet 4	
11-12 to						500 / 380	425-600	Sheet 4a		
Two-sided lifting device								Sheet 7		
SLM		Single leaf	HSF../HZF..	---	---	9 to HD	500 / 380	305-470	Sheet 8	
		Double leaf				11-12 to	500 / 380	320-500	Sheet 8a	
	Self-steering axles LL with off-set trailing arm	Single leaf	HSFH..LL	---	---	9 to HD	500 / 380	330-470	Sheet 9	
						11-12 to	500 / 380	350-500	Sheet 9a	
						10 to	500 / 380	315-470	Sheet 10	
						9 to HD	500 / 380	330-500	Sheet 10a	
	Self-steering axles LL with trailing arm	Single leaf	HSFH..LL	---	---	9 to HD	500 / 380	315-470	Sheet 11	
11-12 to						500 / 380	330-500	Sheet 11a		
Two-sided lifting device								Sheet 14		
SLU		Single leaf	HSF../HZF..			9 to HD	500 / 380 u. 405	215-350	Sheet 15	
						11-12 to	500 / 380 u. 405	210-360	Sheet 15a	
				KHSF.. / KHZF..	9-11 to	500 / 380 u. 405	215-350	Sheet 15b		
					9-11 to	500 / 380 u. 405	215-350	Sheet 15c		
					9 to Long stroke	620 / 365	185-350	Sheet 15d		
		Double leaf	HSF../HZF..				9 to HD	500 / 380	215-350	Sheet 16
							11-12 to	500 / 380	210-360	Sheet 16a
				KHSF.. / KHZF..	9-11 to	500 / 380	215-350	Sheet 16b		
					9-11 to	500 / 380	215-350	Sheet 16c		
					9-11 to	550 / 405	215-350	Sheet 16f		
		KHSF.. / KHZF..	9 to Long stroke	690 / 310	235-345	Sheet 16d				
			9-12 to	500 / 405	225-350	Sheet 15e				
			9-12 to	550 / 405	225-350	Sheet 16e				
Self-steering axles LL with trailing arm	Single leaf	NHZF.. / NMZF..								
One-sided lifting device	Double leaf	NHZF.. / NMZF..						Sheet 19		



Series	Suspensions to drawing SL-SN.01	Line	Weight variations are within the permitted DIN tolerances for the respective production processes. Weights given in kg.					
			Axle weights				SP = Track FM = Spring centre	
			Weight of air suspension parts	Weight of axle attachment	FM 900	FM 980	FM 1200	FM1300
			SP 1820	SP 1820	SP 2040	SP 2040		
SLO	Sheet 1	1	150	34	313	313	314	314
		2	152					
		3	160					
	Sheet 1a	1	140	44	353 ¹⁾	353 ¹⁾	354 ²⁾	354 ²⁾
		2	142					
		3	160					
	Sheet 2	1	169	35	313	313	314	314
		2	171					
		3	179					
	Sheet 2a	1	159	45	353 ¹⁾	353 ¹⁾	354 ²⁾	354 ²⁾
		2	161					
		3	179					
SLM	Sheet 8	1	154	34	313	313	314	314
		2	156					
		3 / 4 / 5	168					
	Sheet 8a	1	152	44	353 ¹⁾	353 ¹⁾	354 ²⁾	354 ²⁾
		2	154					
		3 / 4 / 5	158					
	Sheet 9	1	173	35	313	313	314	314
		2 / 3 / 4	183					
	Sheet 9a	1	169	45	353 ¹⁾	353 ¹⁾	354 ²⁾	354 ²⁾
		2 / 3 / 4	173					
	Sheet 7, 14					Two-sided lifting device for Axle load to 9t = 36kg		
						Two-sided lifting device for Axle load to 12t = 39kg		

Additional weight per axle

- 1) with axle type HZF...12010 = 27kg
- 2) with axle type HSF...12010 = 21kg

Determining the total weight

Air suspension parts

+ Axle attachment

+ Axle

+ Additional weight

= Total weight

SL-Air-spring axles

Weights
Air-spring axles with drum brake

SL-SN.01
Sheet-no. IIa



Series	Suspensions to drawing SL-SN.01	Line	Weight variations are within the permitted DIN tolerances for the respective production process, given in kg.																		
			Weight of air suspension parts	Weight of axle attachment	Axle weights															SP = Track	FM = Spring centre
					FM 900	FM 980					FM 1100				FM 1200				FM 1300		
SP 1820	SP 1820	SP 1830	SP 1835	SP 1880	SP 1930	SP 1935	SP 1950	SP 1995	SP 2000	SP 2005	SP 2040	SP 2045	SP 2040	SP 2045	SP 2075						
SLU	Sheet 15	1	149	41	313	313															
		2	152																		
		3	164																		
		4 / 5	160																		
	Sheet 15a	1	149	44	353 ²⁾	353 ²⁾															
		2 / 3	160																		
		4	163																		
	Sheet 15b	1	149	41																	
		2	152																		
		3	164																		
		4 / 5	160																		
	Sheet 15c	1	149	41																	
		2	152																		
		3	164																		
		4 / 5	160																		
	Sheet 15d	1	159	41																	
		2	166																		
	Sheet 16	1	168	41	313	313															
		2	171																		
3		183																			
4 / 5		179																			
Sheet 16a	1	168	45	353 ²⁾	353 ²⁾																
	2 / 3 / 4	182																			
Sheet 16b	1	168	41																		
	2	171																			
	3	183																			
	4 / 5	179																			
Sheet 16c	1	168	41																		
	2	171																			
	3	183																			
	4 / 5	179																			
Sheet 16d	1	208	42																		
Sheet 16f	1	180	41																		
	2	191																			
	3	187																			
	4	190																			
Sheet 19	One-sided lifting device = 41 kg																				

Additional weight per axle

- 1) Axle type NHZF.. .11010 = 20kg
- 2) Axle type HZF.. 12010 = 27kg
- 3) Axle type HSF.. 12010 = 21kg
- 4) Axle type KHZF.. 11008 = 8kg

Determining the total weight

Air suspension parts

+ Axle attachment

+ Axle

+ Additional weight

= Total weight



Series	Suspension to drawing SL-SN.01	Line	Weights variations are within the permitted DIN tolerances for the respective production process, given in kg.									
			Axle weights									
			Weight of air suspension parts	Weight of axle attachment	FM 710	FM 840		FM 980	FM 1030	FM 1080		
SP 1840	SP 1945	SP 1985			SP 1990	SP 2040	SP 2090	SP 2095	SP 2140			
SLOLL	Sheet 3	1	148	34					442		444	447
		2	151									
		3	159									
	Sheet 3a	1	138	44					509	512		
		2	141									
		3	159									
	Sheet 4	1	150	34					442		444	447
		2	152									
		3	160									
	Sheet 4a	1	140	44					509 ¹⁾	512 ¹⁾		
		2	142									
		3	160									
SLMLL	Sheet 10	1	155	34					442		444	447
		2	157									
		3 / 4 / 5	169									
	Sheet 10a	1	153	44					509	512		
		2	155									
		3 / 4 / 5	159									
	Sheet 11	1	154	34					442		444	447
		2	156									
		3 / 4 / 5	168									
	Sheet 11a	1	152	44					509 ¹⁾	512 ¹⁾		
		2	154									
		3 / 4 / 5	158									
SLULL	Sheet 15e	1	149	41 ²⁾	430 ³⁾	435 ⁴⁾	437	521				
		2	152									
		3	164									
		4 / 5	160									
	Sheet 16e	1	180	41 ²⁾	430 ³⁾	435 ⁴⁾	437	521				
		2	191									
		3	187									
		4	190									

Additional weight / Short weight per axle

- 1) Axle type HSFH..LL 12010 = +23 kg
- 2) Axle type NMZFSLULL 12010 = -16 kg
- 3) Axle type NMZFSLULL 12010 = +74 kg
- 4) Axle type NMZFSLULL 12010 = +81 kg

Steering damper parts kit = 2 kg

Determining the total weight
Air suspension parts
+ Axle attachment
+ Axle
+ Additional weight
- Short weight
= Total weight

SL-Air-spring axles

Height of centre of gravity
Air-spring axles with drum brake

SL-SN.01
Sheet-no. III



Series	Suspensions to drawing SL-SN.01	Trailing arm 05.082..	Leaf thickness	L1	L2	Axle load in kg	Height of centre of gravity max. Spring centre FM					
							900	980	1030	1080	1200	1300
							SLO	Sheet 1	..13.75.1 ..14.16.0	1x57	500	380 335
Sheet 1a	..13.75.1	1x57	500	380	10000	2400		2550		3000	3200	
					11000	2200		2350		2700	2900	
					12000	2050		2150		2500	2700	
Sheet 2	..14.16.0	1x57	500	335	10000	2400		2550		3000	3200	
					11000	2200		2350		2700	2900	
					12000	2050		2150		2500	2700	
Sheet 2a	..12.68.0	2x43	500	380	9000	3000		3250		3800	>4000	
					10000	2800		2950		3500	3700	
					11000	2600		2750		3200	3400	
Sheet 3	..14.18/19.0	1x57	500	380	9000			2600		2850		
					10000			2400	2500			
					11000		2350					
Sheet 4a	..13.75.1	1x57	500	380	9000		2750		3000			
					10000		2550	2650				
					11000		2350	2450				
SLM	Sheet 8	..13.83.1	1x57	500	380	9000	2550	2750		3250	3500	
						10000	2400	2550		3000	3200	
						11000	2200	2350		2700	2900	
	Sheet 9	..13.33.0	2x43	500	380	9000	3000	3250		3800	>4000	
						10000	2800	2950		3500	3700	
						11000	2600	2750		3200	3400	
	Sheet 10	..14.20/21.0	1x57	500	380	9000		2600		2850		
						10000		2400	2500			
						11000		2350				
	Sheet 11a	..13.83.1	1x57	500	380	9000		2750		3000		
						10000		2550	2650			
						11000		2350	2450			
Sheet 11a	..13.83.1	1x57	500	380	12000		2150	2250				
					11000		2350	2450				
					10000		2550	2650				

Series	Suspensions to drawing SL-SN.01	Trailing arm 05.082..	Leaf thickness	L1	L2	Axle load in kg	Height of centre of gravity max. Spring centre FM						
							710	840	900	980	1100	1200	1300
							SLU	Sheet 15	..13.75.1	1x57	500	380 405	9000
Sheet 15a	..13.75.1	1x57	500	380 405	10000				2100	2250		2750	2950
					11000				1900	2050		2450	2650
					12000				1750	1850		2250	2400
Sheet 15b	..13.75.1	1x57	500	380 405	9000				2500	2800	3050	3300	
					10000				2250	2500	2750	2950	
					11000				2050	2250	2450	2650	
Sheet 15c	..13.75.1	1x57	500	380 405	9000				2500	2800			
					10000				2250	2500			
					11000				2050	2250			
Sheet 15d	..13.78.0	1x58	620	365	9000				2100	2300	2500	2700	
Sheet 15e	..13.75.1	1x57	500	405	9000	1800		2100					
					10000	1700		1980					
					11000	1550		1750					
					12000	1450		1650					
Sheet 16	..13.36.0	2x43	500	380	9000				2650	2850		3450	3700
Sheet 16a	..13.36.0	2x43	500	380	10000			2400	2550		3050	3300	
					11000			2200	2350		2750	3000	
					12000			1950	2100		2500	2700	
Sheet 16b	..13.36.0	2x43	500	380	9000			2850	3200	3450	3700		
					10000			2550	2850	3050	3300		
					11000			2350	2550	2750	3000		
Sheet 16c	..13.36.0	2x43	500	380	9000			2850	3200				
					10000			2550	2850				
					11000			2350	2550				
Sheet 16d	..13.63.0	2x51	690	310	9000			2400	2950	3450	3950		
Sheet 16e	..12.83.0	2x43	550	405	9000	1950	2250						
					10000	1750	2050						
					11000	1550	1850						
					12000	1350	1650						
Sheet 16f	..12.83.0	2x43	550	405	9000			2600	2900				
					10000			2350	2600				
					11000			2150	2350				

Determining the heights of centre of gravity for axle units with steered axles.

Heights of centre of gravity of rigid axles + Heights of centre of gravity of steering axles
 _____ = Height of centre of gravity

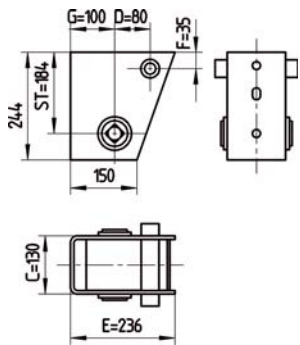
Example: 2500 + 2500 + 2200
 _____ = 2400

Number of axles 3

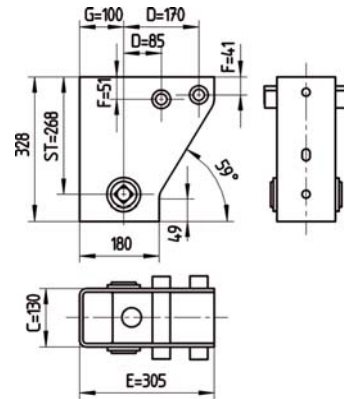
Calculation reference:
 0.4 g transverse acceleration lateral body tilt approx. 3.5 degrees
 without taking into consideration the tilt limit and the tyre deflection



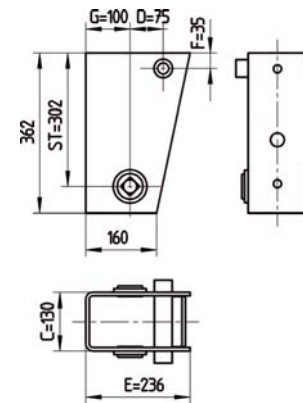
Support height ST=184



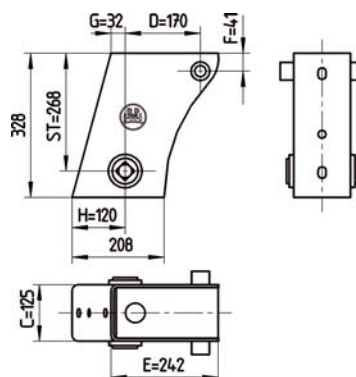
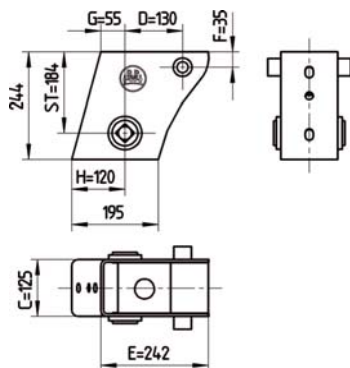
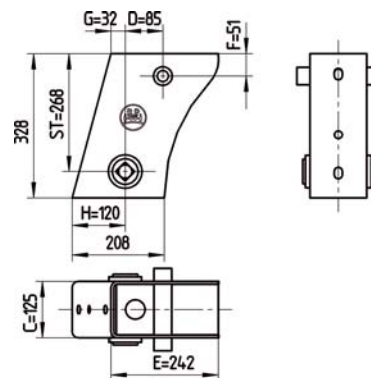
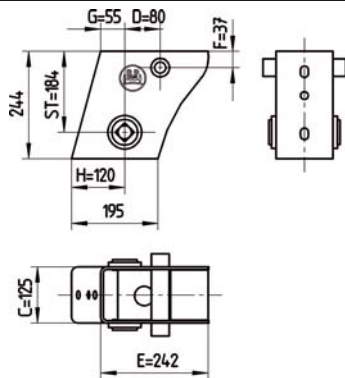
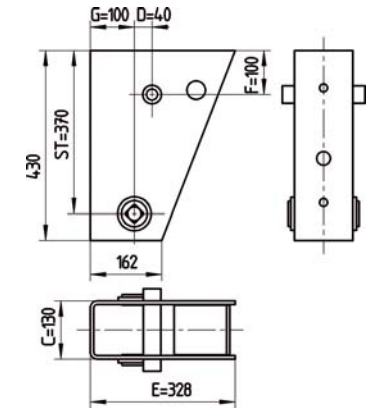
Support height ST=268



Support height ST=302



Support height ST=370



Notice:
The frame must be strengthened so that it can absorb the forces applied. See the current BPW installation instructions.

Series SLO

HD-air-spring axles with drum brake SN 4218

□ 120

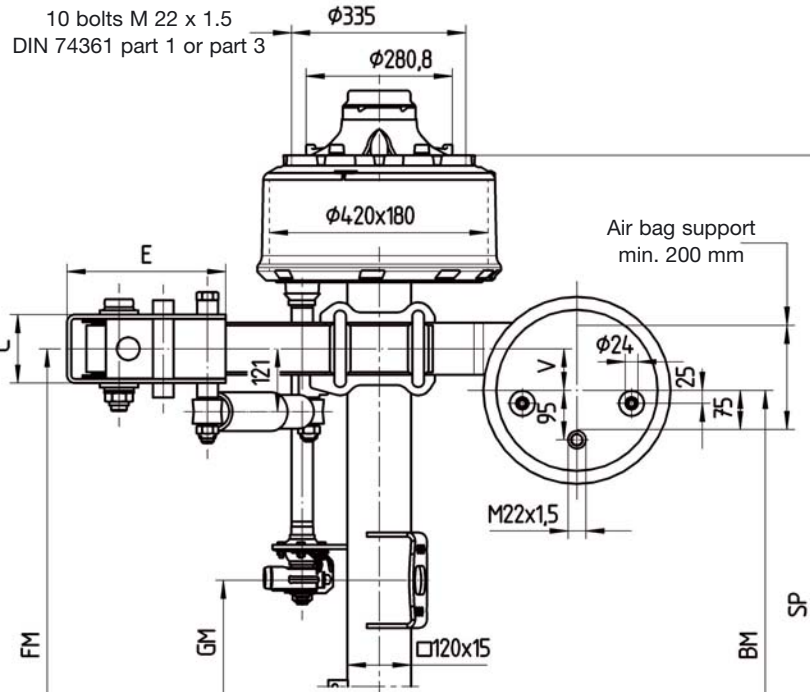
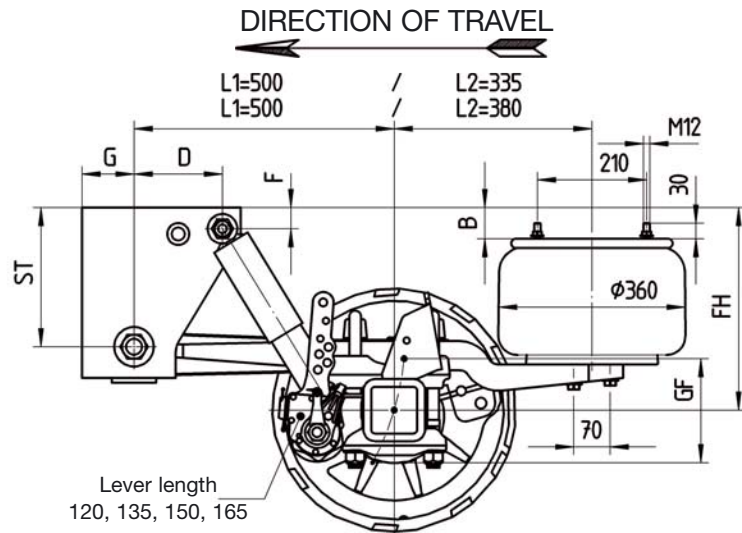
Axle load 9000 kg

Ride height 400-560 mm

for trailer and semi-trailer

SL-SN.01

Sheet-no. 1



Line	Series	≈ adjustable ride height FH					Total spring travel (GF 1)	Air bag	Shock absorber 02.37...	Support				Shock absorber mount		Con-sole 2) B
		for single axles	for axle units	min. FH with axle raised	Empty without air	Loaded without air				ST	C	E	G	D	F	
1	SLO	400-450	410-450	440	340	325	190	36K	..22.83.00 ³⁾	268	130	305	100	170	41	--
2	SLO	425-480	435-480	465	365	350	220	36	..22.83.00 ³⁾	268	130	305	100	170	41	--
3	SLO	500-560	510-560	540	440	425	220	36	..22.88.00	370	130	328	100	140	90	60

1) Lifting heights acc. to TD-1242.0

2) The bracket is not included in supplied package

3) HD shock absorber 02.3722.04.00 acc. to table.

Recommended use: As specified in current BPW warranty documents

4) M = diaphragm cylinder / F = spring brake cylinder

5) Use F-air cylinder bracket with spring-loaded accumulator cylinder

6) Track = 1820 / Spring centre = 980, Rim 22.5 x 7.50 with centre distance = 320 mm

Axle type	Track SP	Spring centre FM	Ground plate centre GM	Air bag centre BM	Brake-cyl. 4)	Tyres recommended
				V=80		
HSFSLO 9010	2040	1200	409	1040	M/F	385/65 R 22.5
				1140		
HZFSLO 9010	1820	900	239	740	M/(F) ⁵⁾	275/70 R 22.5 ⁶⁾
		980		820		

max. inclination angle of the semitrailer under full load and lowest adjustable ride height $\pm 1^\circ$

With trailing arm L1=500 / L2=380, bag pressures acc. to TE-1188.0 sheet 11

With trailing arm L1=500 / L2=335, bag pressures acc. to TE-1188.0 sheet 32

The hanger brackets, air bag supports and the frame must be reinforced so that the forces applied can be absorbed. See the current BPW installation instructions.

Series SLO

HD-air-spring axles with drum brake SN 4220

□ 150

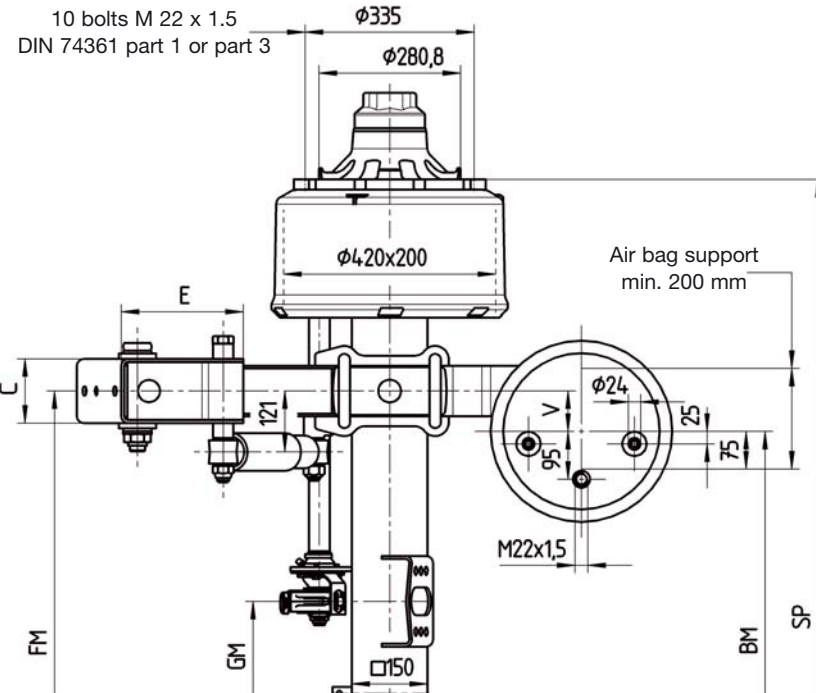
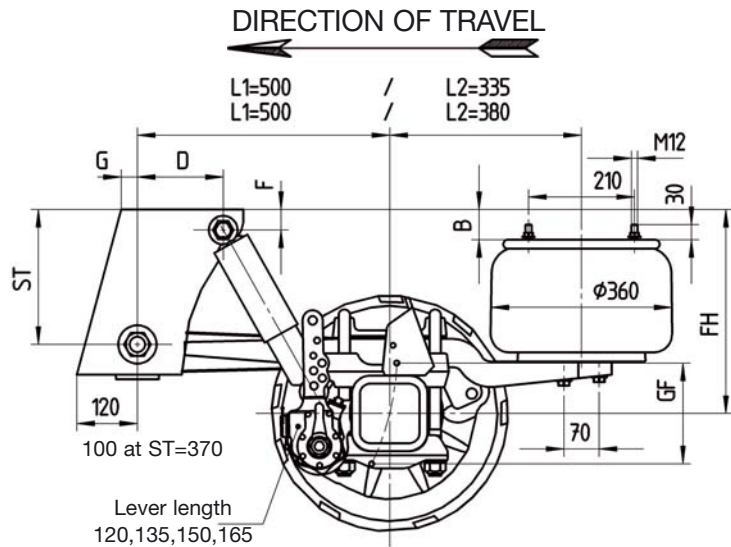
Axle load 11000-12000 kg

Ride height 415-600 mm

for trailer and semi-trailer

SL-SN.01

Sheet-no. 1a



Line	Series	≈ adjustable ride height FH					Total spring travel GF ¹⁾	Air bag	Shock absorber 02.37...	Support				Shock absorber mount		Con- ²⁾ sole B
		for single axles	for axle units	min. FH with axle raised	Empty without air	Loaded without air				ST	C	E	G	D	F	
1	SLO	415-455	425-455	455	355	340	190	36K	..22.83.00	268	125	242	32	170	41	--
2	SLO	445-500	455-500	485	385	370	220	36	..22.83.00	268	125	242	32	170	41	--
3	SLO	520-600	530-600	560	460	445	220	36	..22.88.00	370	130	328	100	140	90	60

¹⁾ Lifting heights acc. to TD-1242.0

²⁾ The bracket is not included in supplied package

³⁾ M = diaphragm cylinder / F = spring brake cylinder

⁴⁾ Use F-air cylinder bracket with spring-loaded accumulator cylinder

⁵⁾ The load rating of the tyre entered in the drawing is unrelated to the axle load capacity. It is dependent on the information from the tyre manufacturer.

⁶⁾ Tyre 295/80 R22.5 only possible with Track = 1820 / Spring centre = 900.

⁷⁾ Track = 1820 / Spring centre = 980, Rim 22.5 x 7.50 with centre distance = 320 mm

Axle type	Track SP	Spring centre FM	Ground plate centre GM	Air bag centre BM	Brake-cyl. ³⁾	Tyres recommended ⁵⁾
				V=80		
HSFSLO 11..12010	2040	1200	365	1040	M/F	425/65 R 22.5 445/65 R 22.5
				1140		
HZFSLO 11..12010	1820	900	261	740	M/(F) ⁴⁾	275/70 R 22.5 ⁷⁾ 295/80 R 22.5 ⁶⁾
		980		820		

Recommended use for BPW chassis and suspensions: As specified in current BPW warranty documents.

max. inclination angle of the semitrailer under full load and lowest adjustable ride height ±1°

With trailing arm L1=500 / L2=380, bag pressures acc. to TE-1188.0 sheet 11

With trailing arm L1=500 / L2=335, bag pressures acc. to TE-1188.0 sheet 32

The hanger brackets, air bag supports and the frame must be reinforced so that the forces applied can be absorbed. See the current BPW installation instructions.

Series SLO

HD-air-spring axles with drum brake SN 4218

□ 120

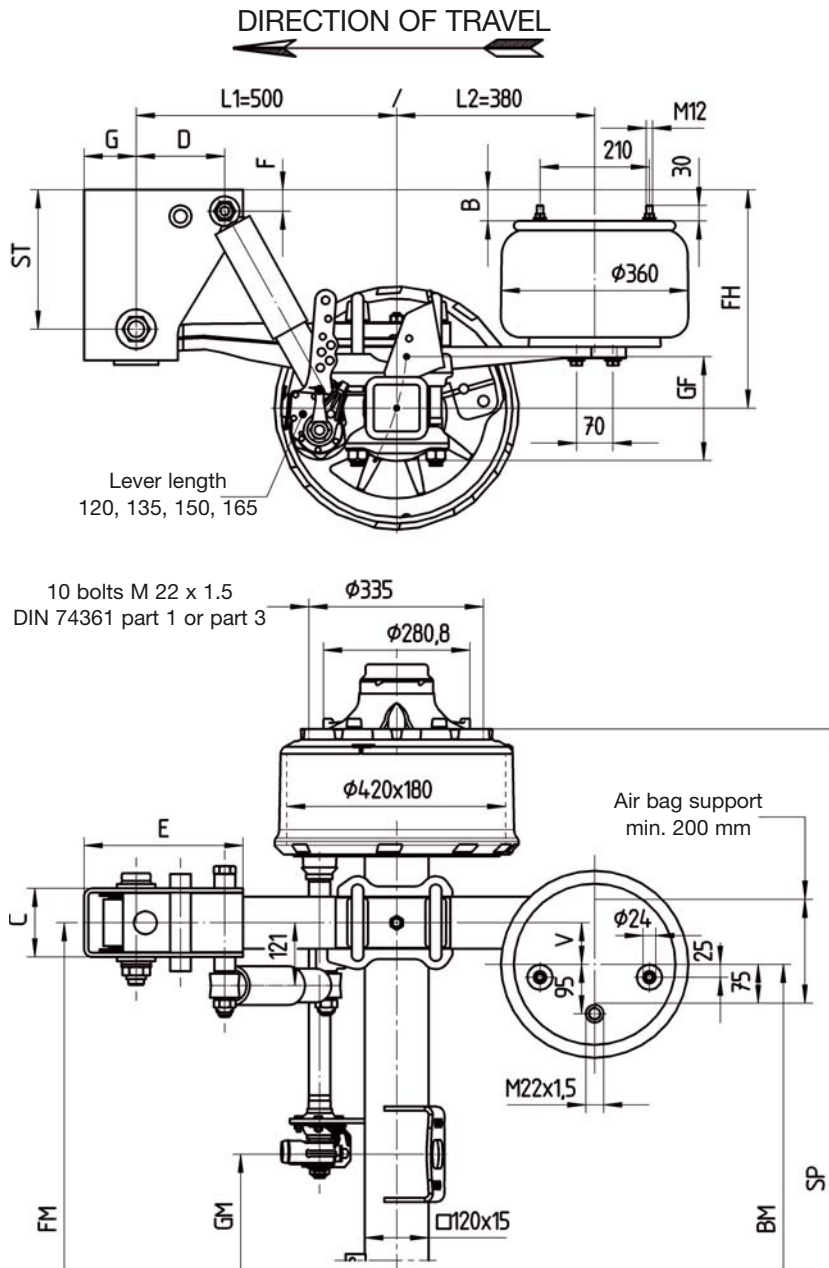
Axle load 9000 kg

Ride height 420-600 mm

for trailer and semi-trailer

SL-SN.01

Sheet-no. 2



Line	Series	~ adjustable ride height FH					Total spring travel GF 1)	Air bag	Shock absorber 02.37...	Support				Shock absorber mount		Con- ²⁾ sole B
		for single axles	for axle units	min. FH with axle raised	Empty without air	Loaded without air				ST	C	E	G	D	F	
1	SLO	420-460	430-460	460	360	345	190	36K	..22.83.00 ³⁾	268	130	305	100	170	41	--
2	SLO	450-490	460-490	490	390	375	220	36	..22.83.00 ³⁾	268	130	305	100	170	41	--
3	SLO	530-600	540-600	570	470	455	220	36	..22.88.00	370	130	328	100	140	90	60

1) Lifting heights acc. to TD-1242.0

2) The bracket is not included in supplied package

3) HD shock absorber 02.3722.04.00 acc. to table.

Recommended use: As specified in current BPW warranty documents.

4) M = diaphragm cylinder / F = spring brake cylinder

6) Use F-air cylinder bracket with spring-loaded accumulator cylinder

6) Track = 1820 / Spring centre = 980, Rim 22.5 x 7.50 with centre distance = 320 mm

Axle type	Track SP	Spring centre FM	Ground plate centre GM	Air bag centre BM	Brake-cyl. 4)	Tyres recommended
				V=80		
HSFSLO 9010	2040	1200	409	1040	M/F	385/65 R 22.5
				1140		
HZFSLO 9010	1820	900	239	740	M/(F) ⁵⁾	275/70 R 22.5 ⁶⁾
		980		820		

max. inclination angle of the semitrailer under full load and lowest adjustable ride height $\pm 1^\circ$

With trailing arm L1=500 / L2=380, bag pressures acc. to TE-1188.0 sheet 11

The hanger brackets, air bag supports and the frame must be reinforced so that the forces applied can be absorbed. See the current BPW installation instructions.

Series SLO

Air-spring axle with drum brake SN 4220

□ 150

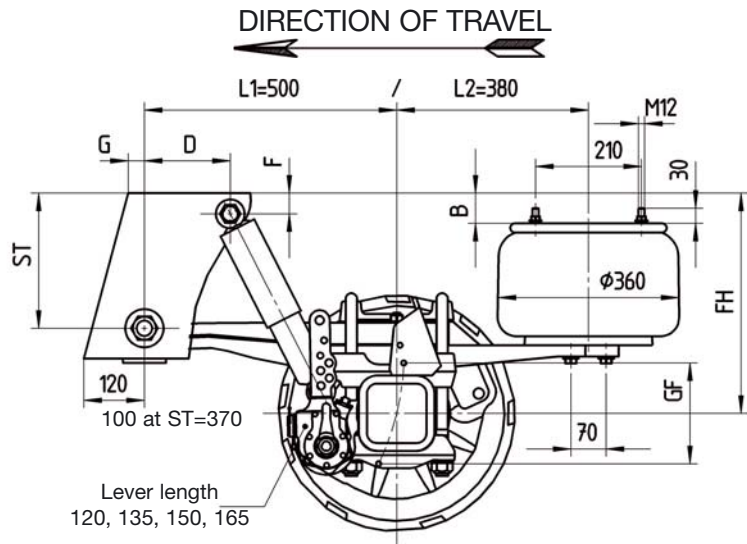
Axle load 11000-12000 kg

Ride height 445-610 mm

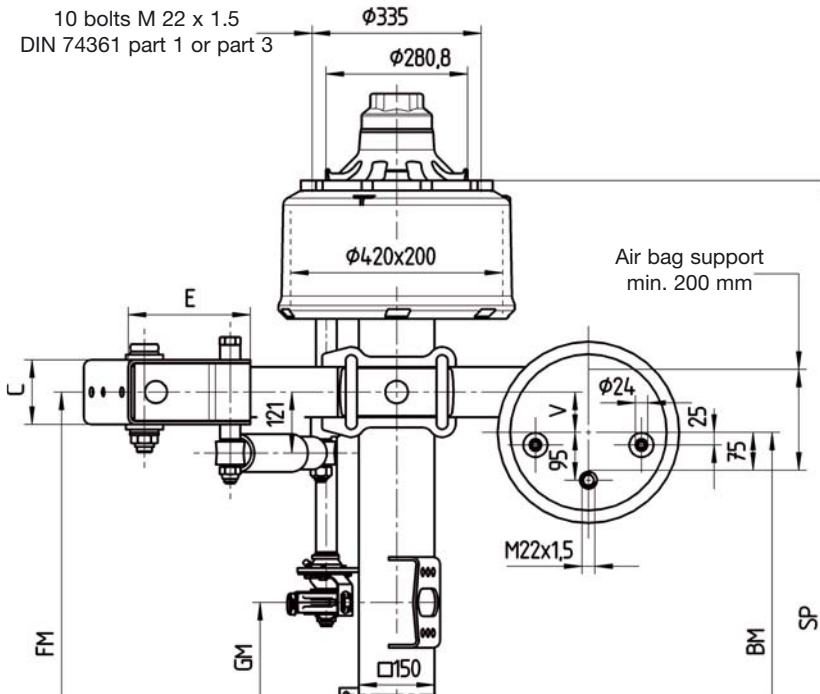
for trailer and semi-trailer

SL-SN.01

Sheet-no. 2a



10 bolts M 22 x 1.5
DIN 74361 part 1 or part 3



Line	Series	≈ adjustable ride height FH					Total spring travel GF ¹⁾	Air bag	Shock absorber 02.37...	Support				Shock absorber mount		Con ²⁾ sole
		for single axles	for axle units	min. FH with axle raised	Empty without air	Loaded without air				ST	C	E	G	D	F	
1	SLO	445-490	455-490	485	385	370	190	36K	..22.83.00	268	125	242	32	170	41	--
2	SLO	475-520	485-520	515	415	400	220	36	..22.83.00	268	125	242	32	170	41	--
3	SLO	550-610	560-610	590	490	475	220	36	..22.88.00	370	130	328	100	140	90	60

1) Lifting heights acc. to TD-1242.0

2) The bracket is not included in supplied package

3) M = diaphragm cylinder / F = spring brake cylinder

4) Use F-air cylinder bracket with spring-loaded accumulator cylinder

5) The load rating of the tyre entered in the drawing is unrelated to the axle load capacity.

It is dependent on the information from the tyre manufacturer.

6) Tyre 295/80 R22.5 only possible with Track = 1820 / Spring centre = 900.

7) Track = 1820 / Spring centre = 980, Rim 22.5 x 7.50 with centre distance = 320 mm

Axle type	Track SP	Spring centre FM	Ground plate centre GM	Air bag centre BM	Brake-cyl. ³⁾	Tyres recommended ⁵⁾
				V=80		
HSFSLO 11..12010	2040	1200	365	1040	M/F	425/65 R 22.5
HSFSLO 11..12010	2040	1300	365	1140	M/F	445/65 R 22.5
HZFSLO 11..12010	1820	900	261	740	M/(F) ⁴⁾	275/70 R 22.5 ⁷⁾
HZFSLO 11..12010	1820	980	261	820	M/(F) ⁴⁾	295/80 R 22.5 ⁶⁾

Recommended use for BPW chassis and suspensions: As specified in current BPW warranty documents.

max. inclination angle of the semitrailer under full load and lowest adjustable ride height $\pm 1^\circ$

With trailing arm L1=500 / L2=380, bag pressures acc. to TE-1188.0 sheet 11

The hanger brackets, air bag supports and the frame must be reinforced so that the forces applied can be absorbed. See the current BPW installation instructions.

Series SLOLL

HD-air-spring axles with drum brake SN 4218

□ 120

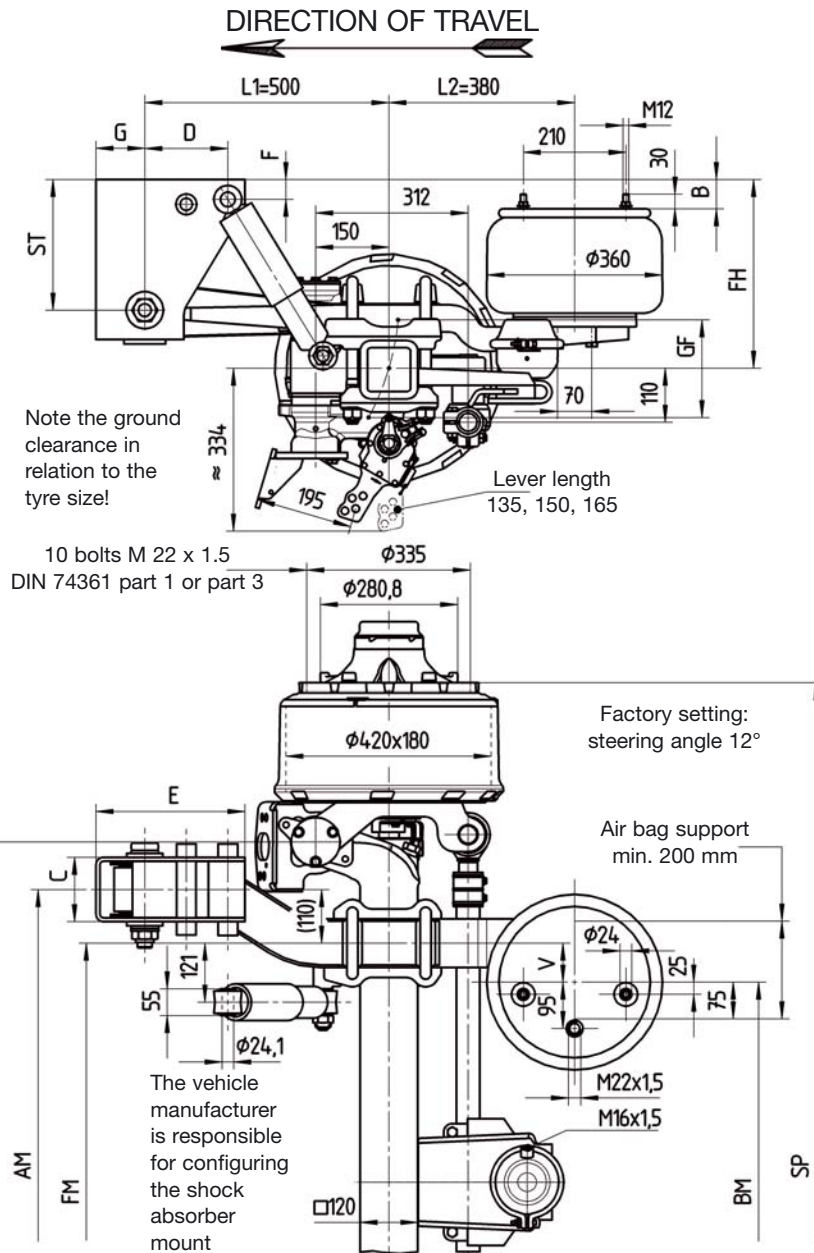
Axle load 9000 kg

Ride height 410-560 mm

for trailer

SL-SN.01

Sheet-no. 3



Line	Series	≈ adjustable ride height FH				Total spring travel GF ¹⁾	Air bag	Shock absorber 02.37...	Support				Shock absorber mount		Con ²⁾ sole
		for axle units	min. FH with axle raised	Empty without air	Loaded without air				ST	C	E	G	D	F	
1	SLOLL	410-450	440	340	325	190	36K	..22.83.00 ³⁾	268	130	305	100	170	41	--
2	SLOLL	435-480	465	365	350	220	36	..22.83.00 ³⁾	268	130	305	100	170	41	--
3	SLOLL	510-560	540	440	425	220	36	..22.88.00	370	130	328	100	140	90	60

¹⁾ Lifting heights acc. to TD-1242.0

²⁾ The bracket is not included in supplied package

³⁾ HD shock absorber 02.3722.04.00 acc. to table

Recommended use: As specified in current BPW warranty documents

⁴⁾ M = diaphragm cylinder / F = spring brake cylinder

Axle type	Track SP	Spring centre FM	Hanger bracket centre AM	Steering pivot centre LBM	Air bag centre BM	Brake-cyl. ⁴⁾	Tyres recommended
					V=80		
HSFHSLOLL 9010	2040	980	1200	1395	820	M / F	385/65 R 22.5
HSFHSLOLL 9010	2095	1080	1300	1450	920	M / F	
HSFHSLOLL 9010	2140	1080	1300	1495	920	M / F	

max. inclination angle of the semitrailer under full load and lowest adjustable ride height ±1°

With trailing arm L1=500 / L2=380, bag pressures acc. to TE-1188.0 sheet 11

The hanger brackets, air bag supports and the frame must be reinforced so that the forces applied can be absorbed. See the current BPW installation instructions.

With axle ratio - rigid axle to steering axle - of 1:1, when fitted with a lifting axle and when using central lubrication systems, the steering axles must be equipped with a steering damper.

Leaf spring		Steering tie rod position	Steering damper parts kit	Drawing
L1	L2			
500	380	312 / 110	05.872.00.53.0	04.00.074453

Series SLOLL

Air-spring axle with drum brake SN 4220

□ 150

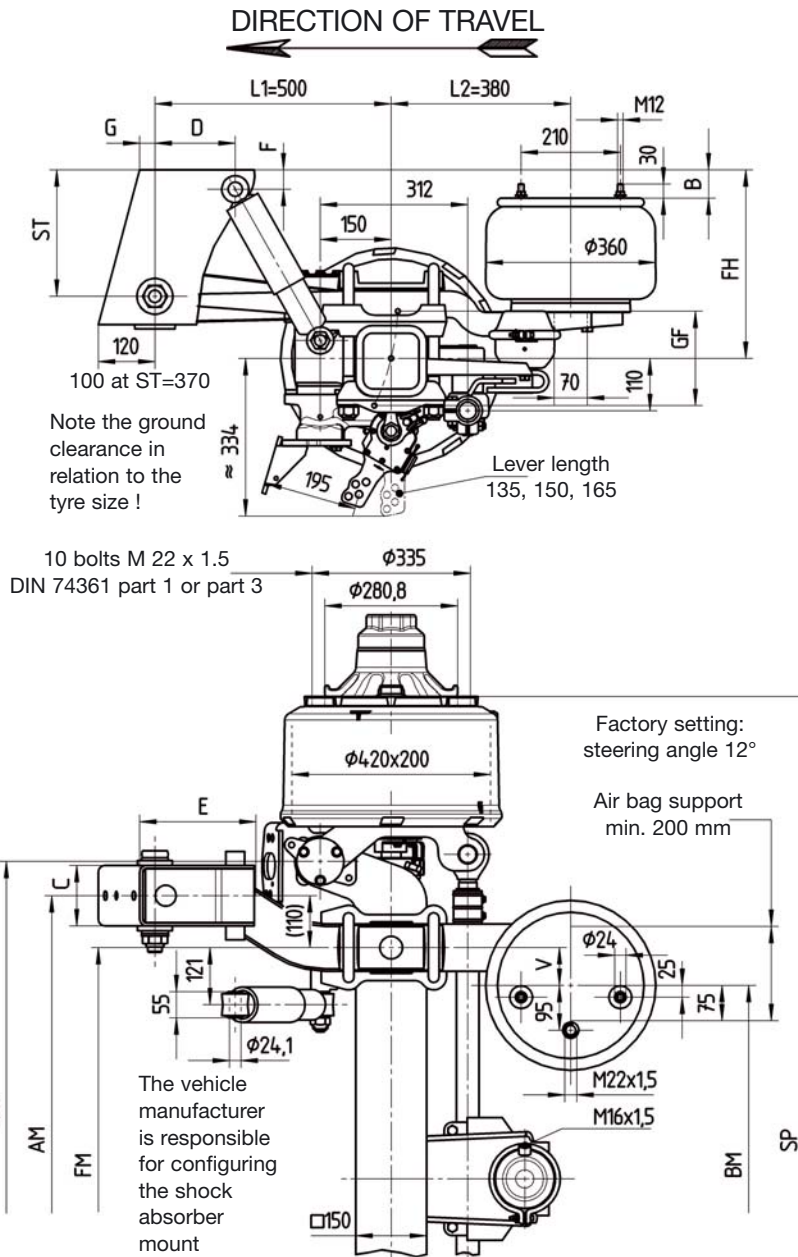
Axle load 10000 kg

Ride height 425-600 mm

for trailer

SL-SN.01

Sheet-no. 3a



Line	Series	≈ adjustable ride height FH				Total spring travel (GF ¹⁾)	Air bag	Shock absorber 02.37...	Support				Shock absorber mount		Con ²⁾ sole
		for axle units	min. FH with axle raised	Empty without air	Loaded without air				ST	C	E	G	D	F	
1	SLOLL	425-455	455	355	340	190	36K	..22.83.00	268	125	242	32	170	41	--
2	SLOLL	455-500	485	385	370	220	36	..22.83.00	268	125	242	32	170	41	--
3	SLOLL	530-600	560	460	445	220	36	..22.88.00	370	130	328	100	140	90	60

- Lifting heights acc. to TD-1242.0
- The bracket is not included in supplied package
- The load rating of the tyre entered in the drawing is unrelated to the axle load capacity. It is dependent on the information from the tyre manufacturer.
- M = diaphragm cylinder / F = spring brake cylinder

Axle type	Track SP	Spring centre FM	Hanger bracket centre AM	Steering pivot centre LBM	Air bag centre BM	Brake-cyl. ⁴⁾	Tyres recommended ³⁾
					V=80		
HSFH SLOLL 10010	2040	980	1200	1345	820	M / F	425/65 R 22.5 445/65 R 22.5
	2090	1030	1250	1395	870		

Recommended use for BPW chassis and suspensions: As specified in current BPW warranty documents.

max. inclination angle of the semitrailer under full load and lowest adjustable ride height ±1°

With trailing arm L1=500 / L2=380, bag pressures acc. to TE-1188.0 sheet 11

The hanger brackets, air bag supports and the frame must be reinforced so that the forces applied can be absorbed. See the current BPW installation instructions.

With axle ratio - rigid axle to steering axle - of 1:1, when fitted with a lifting axle and when using central lubrication systems, the steering axles must be equipped with a steering damper.

Leaf spring		Steering tie rod position	Steering damper parts kit	Drawing
L1	L2			
500	380	312 / 110	05.872.00.53.0	04.00.074453

Series SLOLL

HD-air-spring axles with drum brake SN 4218

□ 120

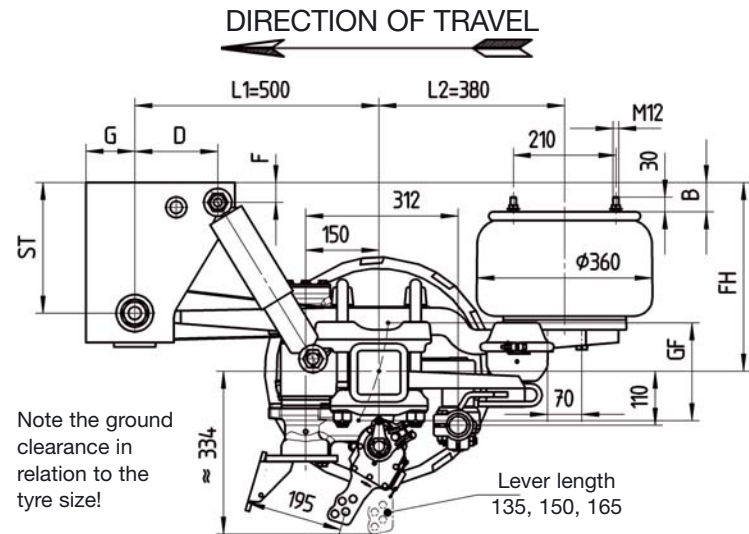
Axle load 9000 kg

Ride height 410-560 mm

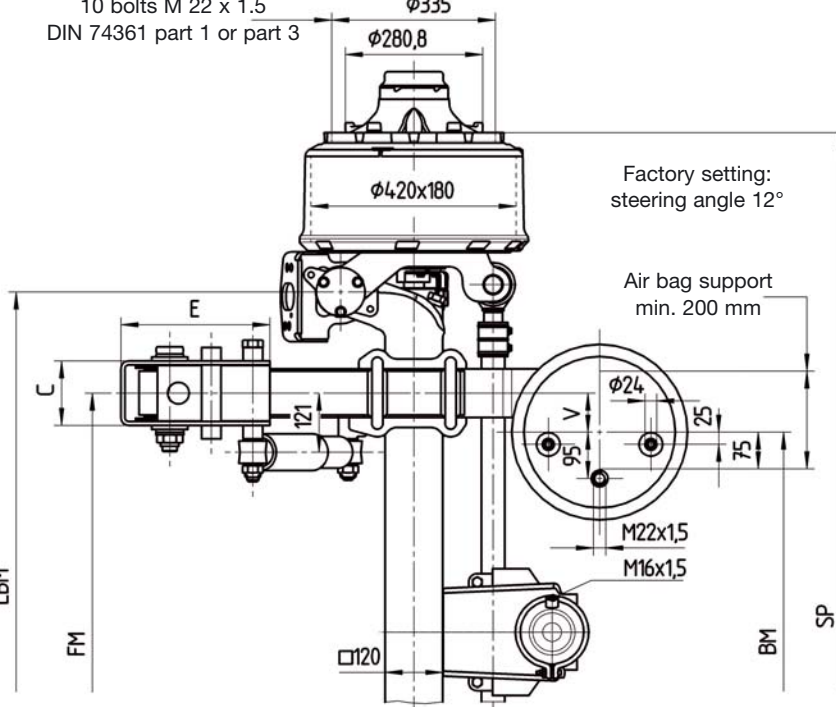
for trailer

SL-SN.01

Sheet-no. 4



10 bolts M 22 x 1.5
DIN 74361 part 1 or part 3



Line	Series	~ adjustable ride height FH				Total spring travel GF ¹⁾	Air bag	Shock absorber 02.37...	Support				Shock absorber mount		Con ²⁾ sole
		for axle units	min. FH with axle raised	Empty without air	Loaded without air				ST	C	E	G	D	F	
1	SLOLL	410-450	440	340	325	190	36K	..22.83.00 ³⁾	268	130	305	100	170	41	--
2	SLOLL	435-480	465	365	350	220	36	..22.83.00 ³⁾	268	130	305	100	170	41	--
3	SLOLL	510-560	540	440	425	220	36	..22.88.00	370	130	328	100	140	90	60

¹⁾ Lifting heights acc. to TD-1242.0

²⁾ The bracket is not included in supplied package

³⁾ HD shock absorber 02.3722.04.00 acc. to table.

Recommended use: As specified in current BPW warranty documents

⁴⁾ M = diaphragm cylinder / F = spring brake cylinder

Axle type	Track SP	Spring centre FM	Steering pivot centre LBM	Air bag centre BM	Brake-cyl. ⁴⁾	Tyres recommended
				V=80		
HSFH SLOLL 9010	2040	980	1395	820	M / F	385/65 R 22.5
	2095	1080	1450	920		
	2140	1080	1495	920		

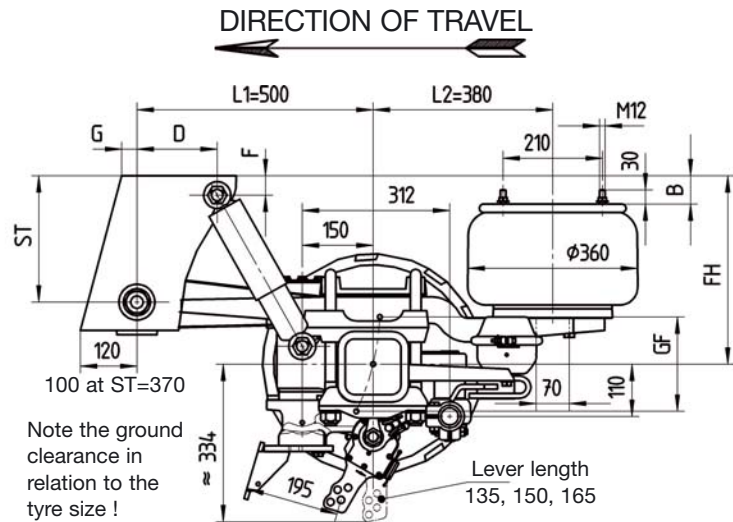
max. inclination angle of the semitrailer under full load and lowest adjustable ride height $\pm 1^\circ$

With trailing arm L1=500 / L2=380, bag pressures acc. to TE-1188.0 sheet 11

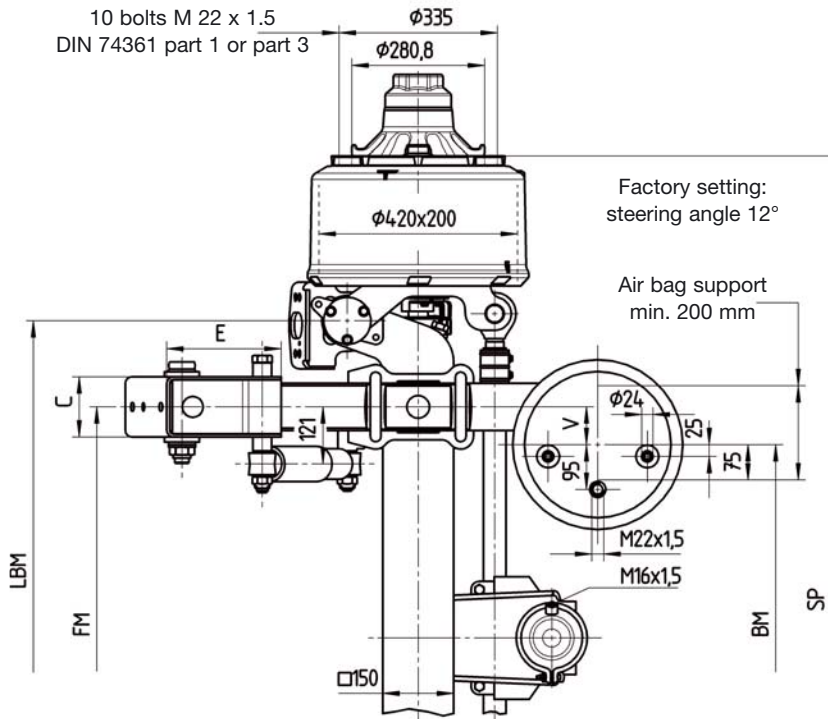
The hanger brackets, air bag supports and the frame must be reinforced so that the forces applied can be absorbed. See the current BPW installation instructions.

With axle ratio - rigid axle to steering axle - of 1:1, when fitted with a lifting axle and when using central lubrication systems, the steering axles must be equipped with a steering damper.

Leaf spring		Steering tie rod position	Steering damper parts kit	Drawing
L1	L2			
500	380	312 / 110	05.872.00.53.0	04.00.074453



10 bolts M 22 x 1.5
DIN 74361 part 1 or part 3



Line	Series	~ adjustable ride height FH				Total spring travel (GF ¹⁾)	Air bag	Shock absorber 02.37...	Support				Shock absorber mount		Con ²⁾ sole
		for axle units	min. FH with axle raised	Empty without air	Loaded without air				ST	C	E	G	D	F	
1	SLOLL	425-455	455	355	340	190	36K	..22.83.00	268	125	242	32	170	41	--
2	SLOLL	455-500	485	385	370	220	36	..22.83.00	268	125	242	32	170	41	--
3	SLOLL	530-600	560	460	445	220	36	..22.88.00	370	130	328	100	140	90	60

¹⁾ Lifting heights acc. to TD-1242.0

²⁾ The bracket is not included in supplied package

³⁾ The load rating of the tyre entered in the drawing is unrelated to the axle load capacity. It is dependent on the information from the tyre manufacturer.

⁴⁾ M = diaphragm cylinder / F = spring brake cylinder

Axle type	Track SP	Spring centre FM	Steering pivot centre LBM	Air bag centre BM	Brake-cyl. ⁴⁾	Tyres recommended ³⁾
				V=80		
HSFH SLOLL 11..12010	2040	980	1345	820	M / F	425/65 R 22.5
	2090	1030	1395	870		445/65 R 22.5

Recommended use for BPW chassis and suspensions: As specified in current BPW warranty documents.

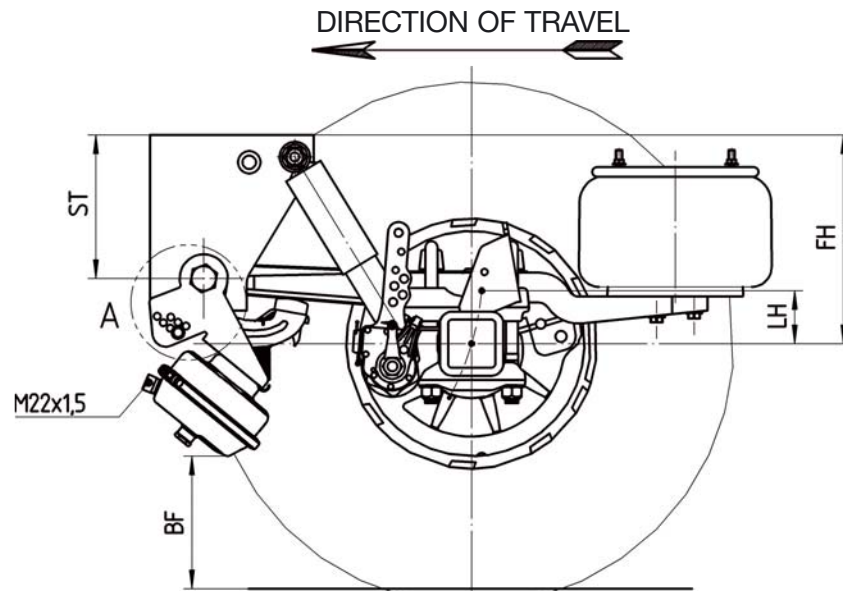
max. inclination angle of the semitrailer under full load and lowest adjustable ride height $\pm 1^\circ$

With trailing arm L1=500 / L2=380, bag pressures acc. to TE-1188.0 sheet 11

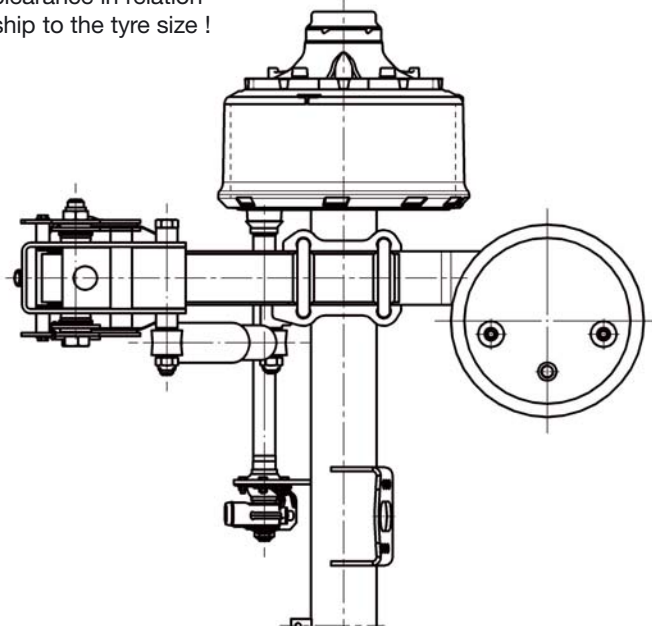
The hanger brackets, air bag supports and the frame must be reinforced so that the forces applied can be absorbed. See the current BPW installation instructions.

With axle ratio - rigid axle to steering axle - of 1:1, when fitted with a lifting axle and when using central lubrication systems, the steering axles must be equipped with a steering damper.

Leaf spring		Steering tie rod position	Steering damper parts kit	Drawing
L1	L2			
500	380	312 / 110	05.872.00.53.0	04.00.074453



* Note the ground clearance in relationship to the tyre size !



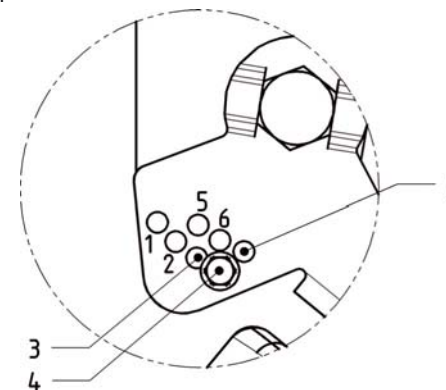
Suspension to drawing ALII-SN.0 Sheet-No.	≈ adjustable ride height FH		min. Lifting stroke LH	Support height ST	Ground clearance ≈ BF ¹⁾	Stop position in version
	for axle units	min. FH with axle raised				
Sheet 1	410-450	440	100	268	335	3
	435-480	465	100	268	365	7
	510-560	540	100	370	335	7
Sheet 1a	425-455	455	100	268	340	3
	455-500	485	100	268	370	7
	530-600	560	100	370	340	7
Sheet 2	430-460	460	100	268	355	7
	460-490	490	100	268	390	4
	540-600	570	100	370	370	4
Sheet 2a	455-490	485	100	268	370	7
	485-520 ²⁾	515	100	268	405	4
	560-610	590	100	370	375	4

¹⁾ Ground clearance in relation to the set minimum ride height with the axle raised.

* Tyre: 385/65 R 22.5 ($r_{stat} = 496$)

²⁾ In the version with lifting and lowering the suspension travel of the axle must be limited to 195 mm

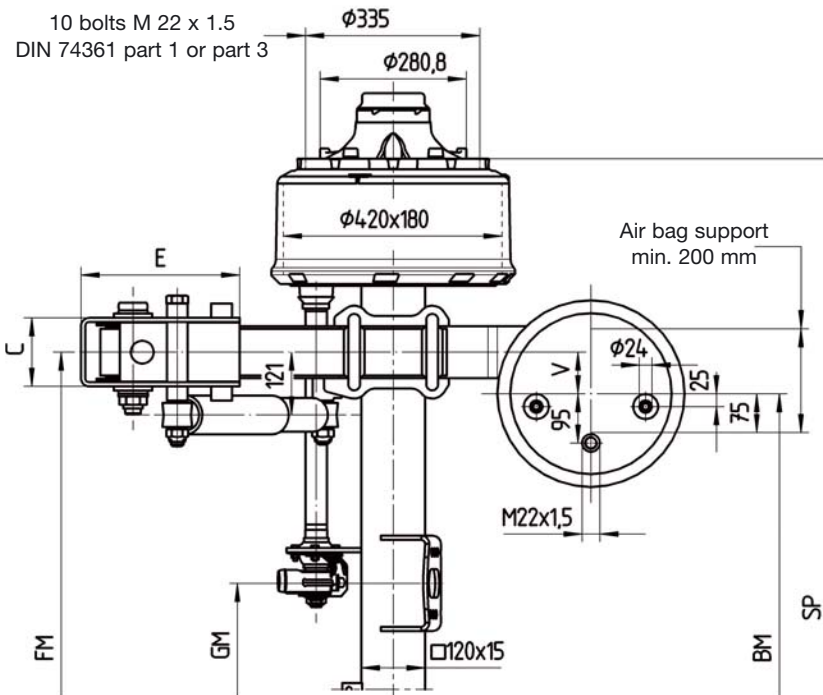
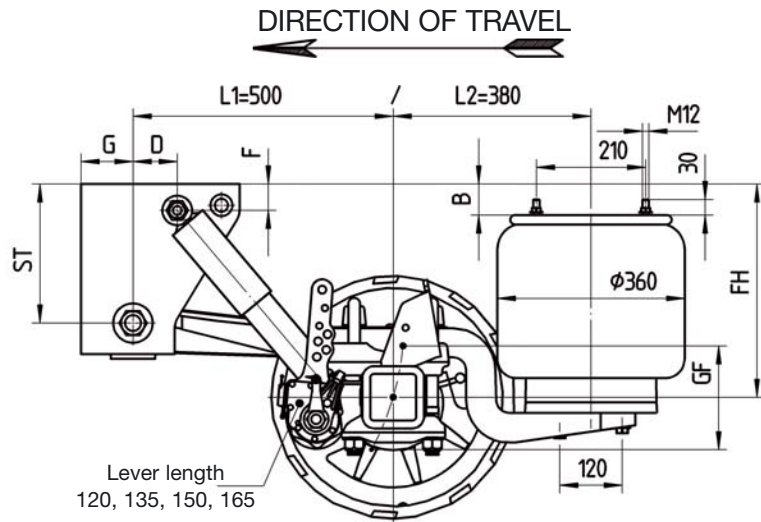
Detail A



In the lifting and lowering version, the total spring travel must be limited by a shut-off valve.

Minimum air pressure for lifting the axle approx. 6 bar.

The hanger brackets, air bag supports and the frame must be strengthened so that they can adsorb the forces applied. See the current BPW installation instructions.



Line	Series	~ adjustable ride height FH					Total spring travel GF 1)	Air bag	Shock 4) absorber 02.37...	Support				Shock absorber mount		Con-sole 2)	
		for single axles	for axle units	min. FH with axle raised	Empty without air	Loaded without air				ST	C	E	G	D	F		B
3)	1	SLM	305-355	315-355	345	245	230	190	36K	..22.83.00	184	130	236	100	80	37	--
3)	2	SLM	330-380	340-380	370	270	255	220	36	..22.83.00	184	130	236	100	80	37	--
	3	SLM	360-415	370-415	400	300	285	220	36	..22.83.00	268	130	305	100	85	51	--
	4	SLM	400-450	410-450	440	340	325	220	36	..22.83.00	268	130	305	100	170	41	60
	5	SLM	420-470	430-470	460	360	345	220	36	..22.83.00	268	130	305	100	170	41	100

1) Lifting heights acc. to TD-1242.0

2) The bracket is not included in supplied package

3) Only suitable for semi-trailer / centre axle drawbar trailer

4) HD shock absorber 02.3722.04.00 acc. to table.

Recommended use: As specified in current BPW warranty documents

5) M = diaphragm cylinder / F = spring brake cylinder

6) Use F-air cylinder bracket with spring-loaded accumulator cylinder

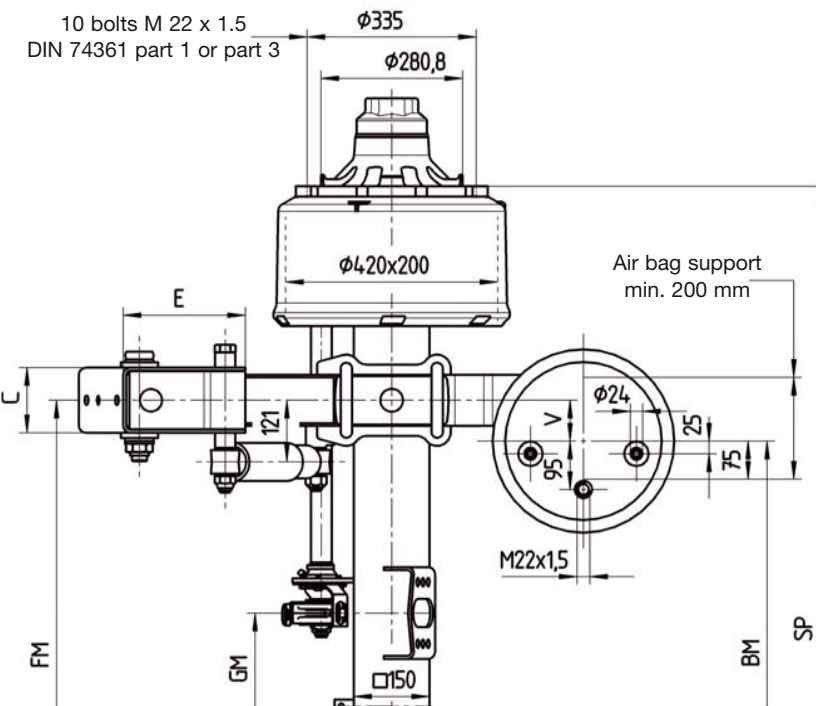
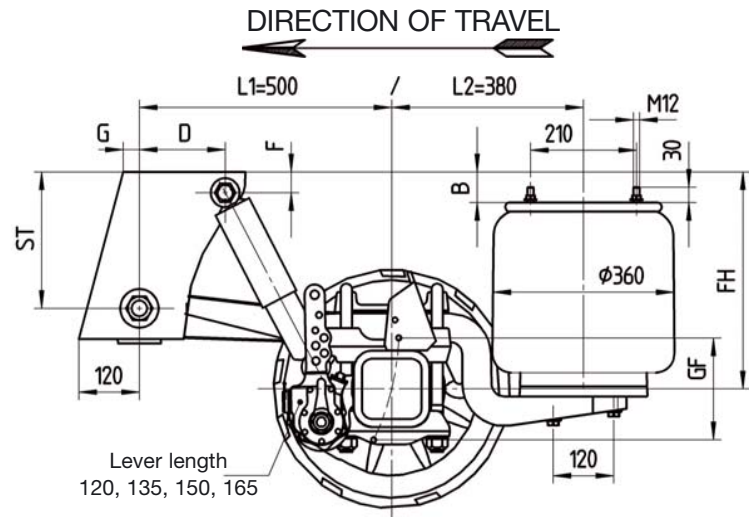
7) Track = 1820 / Spring centre = 980, Rim 22.5 x 7.50 with centre distance = 320 mm

Axle type	Track SP	Spring centre FM	Ground plate centre GM	Air bag centre BM	Brake-cyl. 5)	Tyres recommended
				V=80		
HSFSLM 9010	2040	1200	409	1040	M/F	385/65 R 22.5
				1140		
HZFSLM 9010	1820	900	239	740	M/(F) 6)	275/70 R 22.5 7)
		980		820		

max. inclination angle of the semitrailer under full load and lowest adjustable ride height $\pm 1^\circ$

With trailing arm L1=500 / L2=380, bag pressures acc. to TE-1188.0 sheet 11

The hanger brackets, air bag supports and the frame must be reinforced so that the forces applied can be absorbed. See the current BPW installation instructions.



Line	Series	≈ adjustable ride height FH						Total spring travel (GF ¹⁾)	Air bag	Shock absorber 02.37...	Support				Shock absorber mount		Con- ²⁾ sole B
		for single axles	for axle units	min. FH with axle raised	Empty without air	Loaded without air	ST				C	E	G	D	F		
3)	1	SLM	320-370	330-370	360	260	245	190	36K	..22.83.00	184	125	242	55	80	37	--
3)	2	SLM	345-415	355-415	385	285	270	220	36	..22.83.00	184	125	242	55	80	37	--
	3	SLM	375-445	385-445	415	315	300	220	36	..22.83.00	268	125	242	32	85	51	--
	4	SLM	410-460	420-460	450	350	335	220	36	..22.83.00	268	125	242	32	170	41	60
	5	SLM	435-500	445-500	475	375	360	220	36	..22.83.00	268	125	242	32	170	41	100

1) Lifting heights acc. to TD-1242.0

2) The bracket is not included in supplied package

3) Only suitable for semi-trailer / centre axle drawbar trailer

4) M = diaphragm cylinder / F = spring brake cylinder

5) Use F-air cylinder bracket with spring-loaded accumulator cylinder

6) The load rating of the tyre entered in the drawing is unrelated to the axle load capacity. It is dependent on the information from the tyre manufacturer.

7) Tyres 295/80 R 22.5 only possible with Track = 1820 / Axle centre = 900

8) Track = 1820 / Spring centre = 980, Rim 22.5 x 7.50 with centre distance = 320 mm

Axle type	Track SP	Spring centre FM	Ground plate centre GM	Air bag centre BM	Brake-cyl. 4)	Tyres recommended 6)
				V=80		
HSFSLM 11..12010	2040	1200	365	1040	M/F	425/65 R 22.5 445/65 R 22.5
		1300		1140		
HZFSLM 11..12010	1820	900	261	740	M/(F) ⁵⁾	275/70 R 22.5 ⁸⁾ 295/80 R 22.5 ⁷⁾
		980		820		

Recommended use for BPW chassis and suspensions: As specified in current BPW warranty documents.

max. inclination angle of the semitrailer under full load and lowest adjustable ride height ±1°

With trailing arm L1=500 / L2=380, bag pressures acc. to TE-1188.0 sheet 11

The hanger brackets, air bag supports and the frame must be reinforced so that the forces applied can be absorbed. See the current BPW installation instructions.

Series SLM

HD-air-spring axle with drum brake SN 4218

120

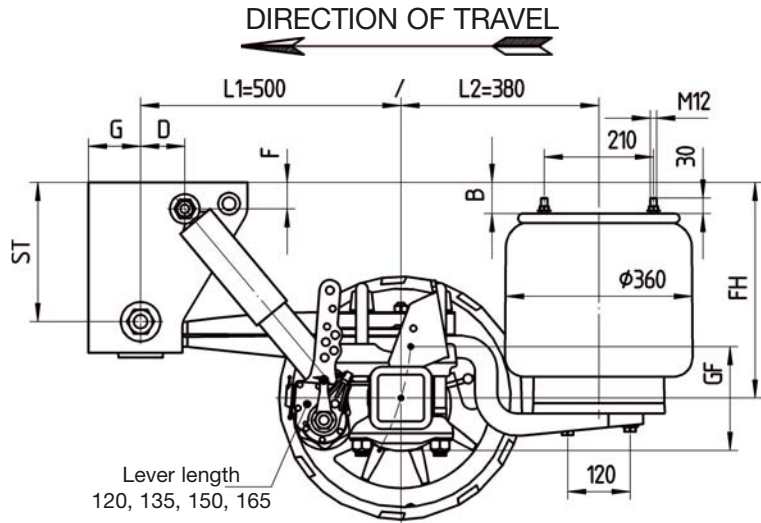
Axle load 9000 kg

Ride height 330-470 mm

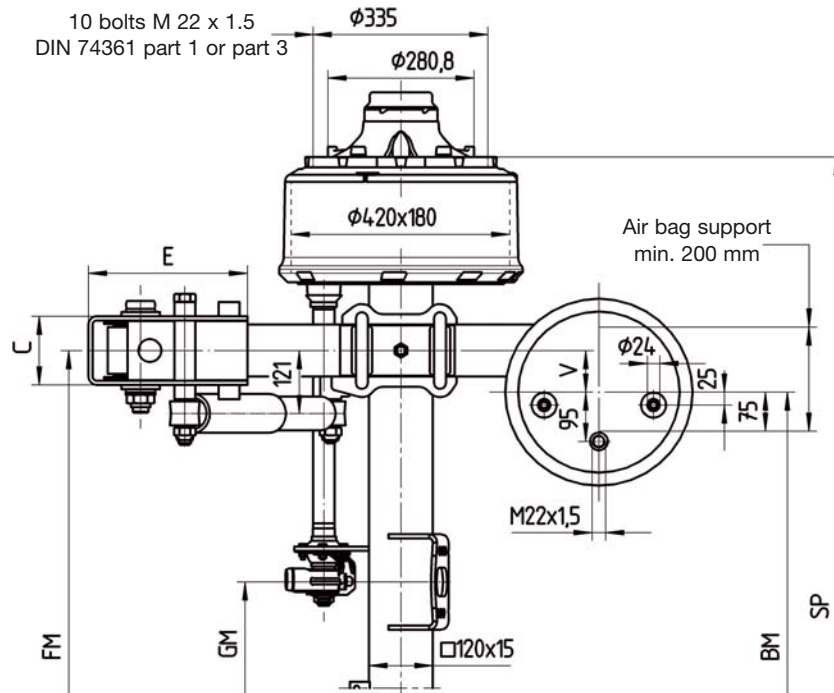
for trailer and semi-trailer

SL-SN.01

Sheet-no. 9



10 bolts M 22 x 1.5
DIN 74361 part 1 or part 3



Line	Series	≈ adjustable ride height FH					Total spring travel (GF ¹⁾)	Air bag	Shock ⁴⁾ absorber 02.37...	Hanger bracket				Shock absorber mount		Con ²⁾ sole B
		for single axles	for axle units	min. FH with axle raised	Empty without air	Loaded without air				ST	C	E	G	D	F	
3) 1	SLM	330-380	340-380	370	270	255	220	36	..22.83.00	184	130	236	100	80	37	--
2	SLM	360-415	370-415	400	300	285	220	36	..22.83.00	268	130	305	100	85	51	--
3	SLM	400-450	410-450	440	340	325	220	36	..22.83.00	268	130	305	100	170	41	60
4	SLM	420-470	430-470	460	360	345	220	36	..22.83.00	268	130	305	100	170	41	100

- 1) Lifting heights acc. to TD-1242.0
- 2) The bracket is not included in supplied package
- 3) Only suitable for semi-trailer / centre axle drawbar trailer
- 4) HD shock absorber 02.3722.04.00 acc. to table.
Recommended use: As specified in current BPW warranty documents
- 5) M = diaphragm cylinder / F = spring brake cylinder
- 6) Use F-air cylinder bracket with spring-loaded accumulator cylinder
- 7) Track = 1820 / Spring centre = 980, Rim 22.5 x 7.50 with centre distance = 320 mm

Axle type	Track SP	Spring centre FM	Ground plate centre GM	Air bag centre BM		Brake-cyl. ⁵⁾	Tyres recommended
				V=80			
HSFSLM 9010	2040	1200	409	1040	M/F	385/65 R 22.5	
		1300		1140			
HZFSLM 9010	1820	900	239	740	M/(F) ⁶⁾	275/70 R 22.5 ⁷⁾	
		980		820			

max. inclination angle of the semitrailer under full load and lowest adjustable ride height ±1°

With trailing arm L1=500 / L2=380, bag pressures acc. to TE-1188.0 sheet 11

The hanger brackets, air bag supports and the frame must be reinforced so that the forces applied can be absorbed. See the current BPW installation instructions.

Series SLM

Air-spring axles with drum brake SN 4220

□ 150

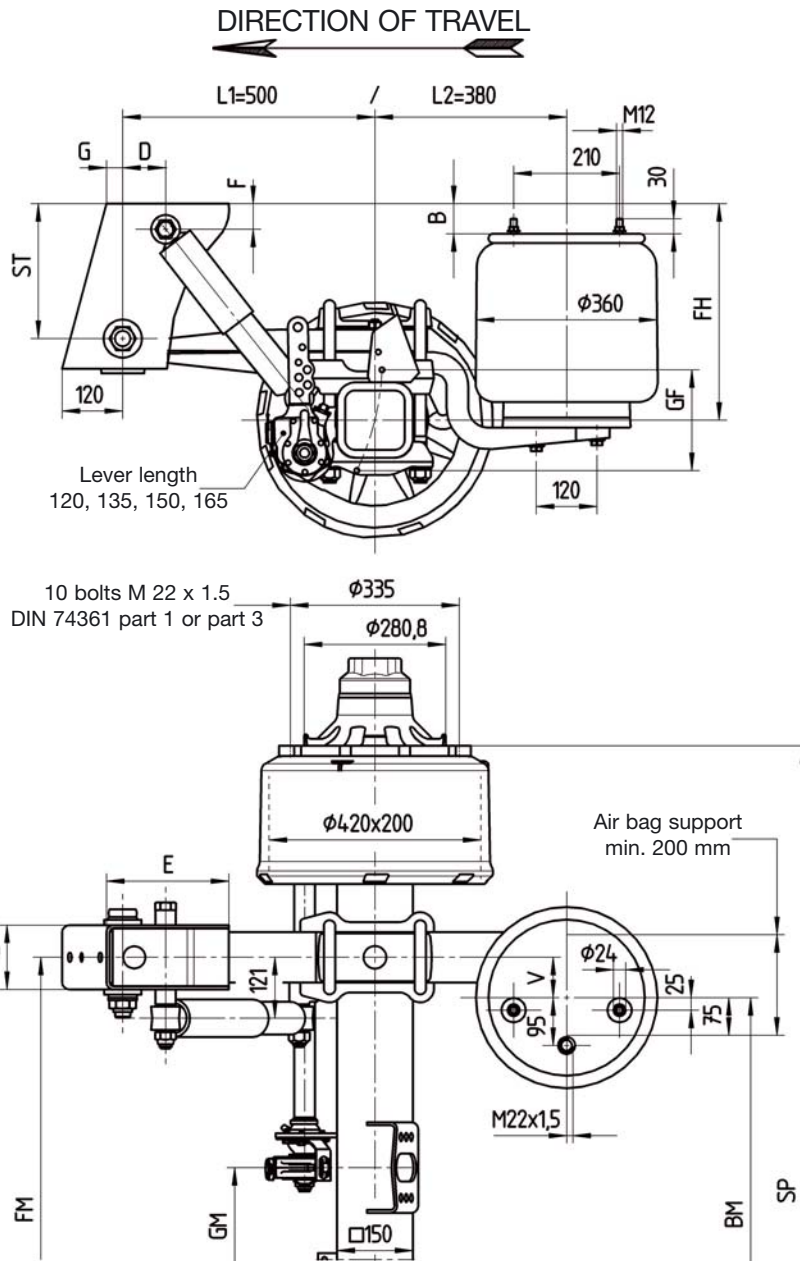
Axle load 11000-12000 kg

Ride height 350-500 mm

for trailer and semi-trailer

SL-SN.01

Sheet-no. 9a

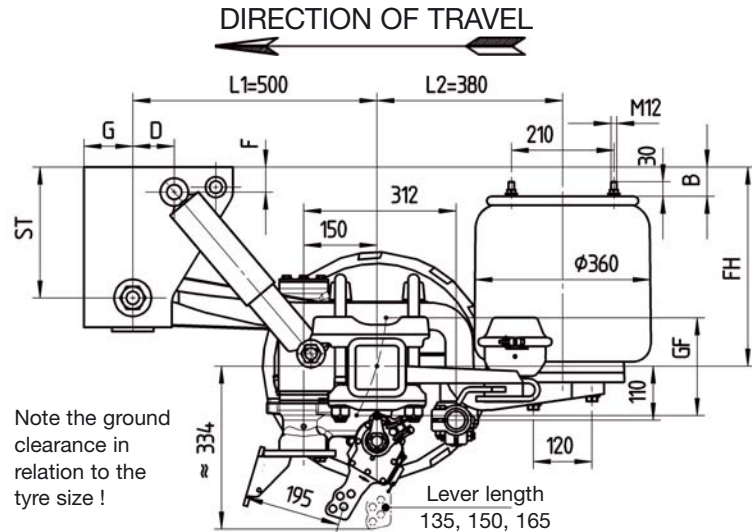
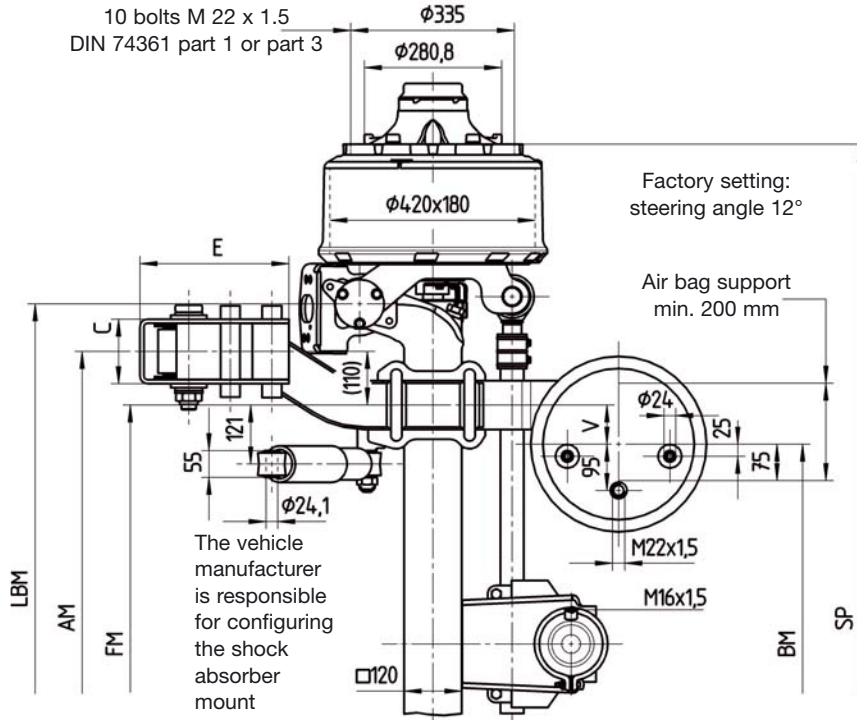


Line	Series	≈ adjustable ride height FH					Total spring travel GF ¹⁾	Air bag	Shock absorber 02.37...	Hanger bracket				Shock absorber mount		Con- ²⁾ sole B
		for single axles	for axle units	min. FH with axle raised	Empty without air	Loaded without air				ST	C	E	G	D	F	
3) 1	SLM	350-410	360-410	390	290	275	220	36	..22.83.00	184	125	242	55	80	37	--
2	SLM	380-440	390-440	420	320	305	220	36	..22.83.00	268	125	242	32	85	51	--
3	SLM	410-460	420-460	450	350	335	220	36	..22.83.00	268	125	242	32	85	51	60
4	SLM	440-500	450-500	480	380	365	220	36	..22.83.00	268	125	242	32	85	51	100

- Lifting heights acc. to TD-1242.0
- The bracket is not included in supplied package
- Only suitable for trailer / centre axle drawbar trailer
- M = diaphragm cylinder / F = spring brake cylinder
- Use F-air cylinder bracket with spring-loaded accumulator cylinder
- The load rating of the tyre entered in the drawing is unrelated to the axle load capacity. It is dependent on the information from the tyre manufacturer.
- Tyres 295/80 R 22.5 only possible with Track = 1820 / Axle centre = 900
- Track = 1820 / Spring centre = 980, Rim 22.5 x 7.50 with centre distance = 320 mm

Axle type	Track SP	Spring centre FM	Ground plate centre GM	Air bag centre BM	Brake-cyl. ⁴⁾	Tyres recommended ⁶⁾
				V=80		
HSFSLM 11..12010	2040	1200	365	1040	M/F	425/65 R 22.5 445/65 R 22.5
		1300		1140		
HZFSLM 11..12010	1820	900	261	740	M/(F) ⁵⁾	275/70 R 22.5 ⁸⁾ 295/80 R 22.5 ⁷⁾
		980		820		

Recommended use for BPW chassis and suspensions: As specified in current BPW warranty documents.
 max. inclination angle of the semitrailer under full load and lowest adjustable ride height $\pm 1^\circ$
 With trailing arm L1=500 / L2=380, bag pressures acc. to TE-1188.0 sheet 11
 The hanger brackets, air bag supports and the frame must be reinforced so that the forces applied can be absorbed. See the current BPW installation instructions.


 10 bolts M 22 x 1.5
DIN 74361 part 1 or part 3


Line	Series	~ adjustable ride height FH				Total spring travel GF ¹⁾	Air bag	Shock ³⁾ absorber 02.37...	Hanger bracket				Shock absorber mount		Con- ²⁾ sole B
		for axle units	min. FH with axle raised	Empty without air	Loaded without air				ST	C	E	G	D	F	
1	SLMML	315-355	345	245	230	190	36K	..22.83.00	184	130	236	100	80	37	--
2	SLMML	340-380	370	270	255	220	36	..22.83.00	184	130	236	100	80	37	--
3	SLMML	370-415	400	300	285	220	36	..22.83.00	268	130	305	100	85	51	--
4	SLMML	410-450	440	340	325	220	36	..22.83.00	268	130	305	100	170	41	60
5	SLMML	430-470	460	360	345	220	36	..22.83.00	268	130	305	100	170	41	100

¹⁾ Lifting heights acc. to TD-1242.0

²⁾ The bracket is not included in supplied package

³⁾ HD shock absorber 02.3722.04.00 acc. to table.

Recommended use: As specified in current BPW warranty documents.

⁴⁾ M = diaphragm cylinder / F = spring brake cylinder

Axle type	Track SP	Spring centre FM	Hanger bracket centre AM	Steering pivot centre LBM	Air bag centre BM	Brake-cyl. ⁴⁾	Tyres recommended
					V=80		
HSFHSLMML 9010	2040	980	1200	1395	820	M / F	385/65 R 22.5
	2095	1080	1300	1450	920		
	2140	1080	1300	1495	920		

 max. inclination angle of the semitrailer under full load and lowest adjustable ride height $\pm 1^\circ$

With trailing arm L1=500 / L2=380, bag pressures acc. to TE-1188.0 sheet 11

The hanger brackets, air bag supports and the frame must be reinforced so that the forces applied can be absorbed. See the current BPW installation instructions.

With axle ratio - rigid axle to steering axle - of 1:1, when fitted with a lifting axle and when using central lubrication systems, the steering axles must be equipped with a steering damper.

Leaf spring		Steering tie rod position	Steering damper parts kit	Drawing
L1	L2			
500	380	312 / 110	05.872.00.53.0	04.00.074453

Series SLMML

Air-spring axles with drum brake SN 4220

□ 150

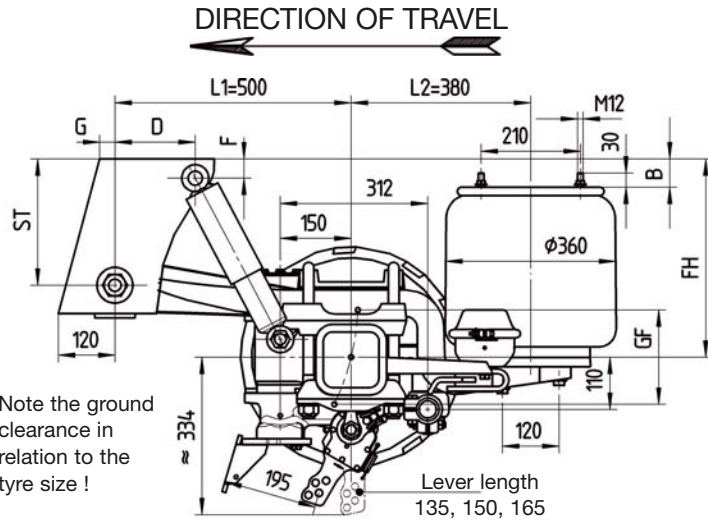
Axle load 10000 kg

Ride height 330-500 mm

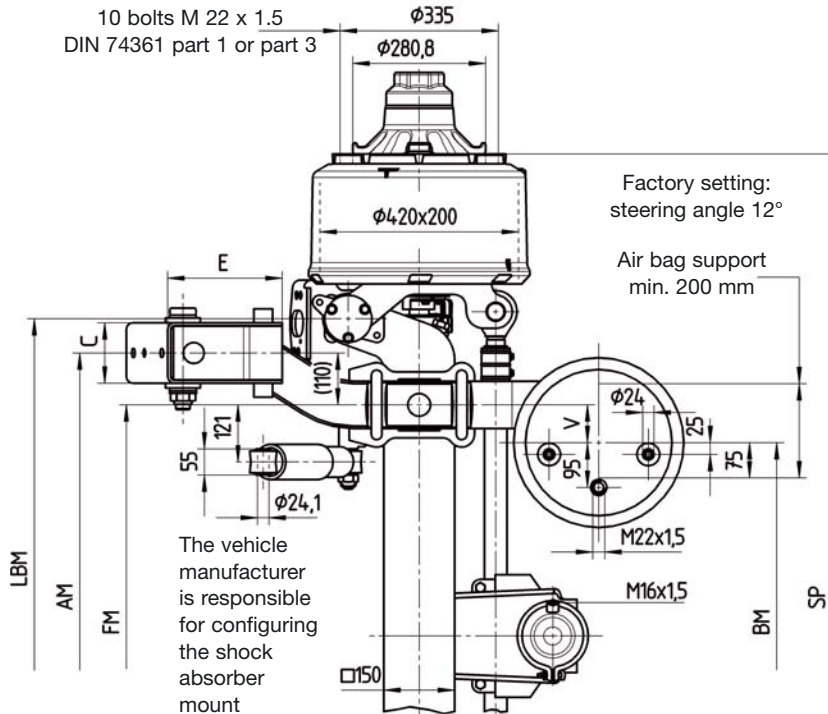
for semi-trailer

SL-SN.01

Sheet-no. 10a



10 bolts M 22 x 1.5
DIN 74361 part 1 or part 3



Line	Series	≈ adjustable ride height FH				Total spring travel (GF ¹⁾)	Air bag	Shock absorber 02.37...	Hanger bracket				Shock absorber mount		Con-sole ²⁾ B
		for axle units	min. FH with axle raised	Empty without air	Loaded without air				ST	C	E	G	D	F	
1	SLMML	330-370	360	260	245	190	36K	..22.83.00	184	125	242	55	80	37	--
2	SLMML	355-415	385	285	270	220	36	..22.83.00	184	125	242	55	80	37	--
3	SLMML	385-445	415	315	300	220	36	..22.83.00	268	125	242	32	85	51	--
4	SLMML	420-460	450	350	335	220	36	..22.83.00	268	125	242	32	170	41	60
5	SLMML	445-500	475	375	360	220	36	..22.83.00	268	125	242	32	170	41	100

1) Lifting heights acc. to TD-1242.0

2) The bracket is not included in supplied package

3) The load rating of the tyre entered in the drawing is unrelated to the axle load capacity. It is depend on the information from the tyre manufacturer.

4) M = diaphragm cylinder / F = spring brake cylinder

Axle type	Track SP	Spring centre FM	Hanger bracket centre AM	Steering pivot centre LBM	Air bag centre BM	Brake-cyl. 4)	Tyres recommended 3)
					V=80		
HSFHSLMML 10010	2040	980	1200	1345	820	M / F	425/65 R 22.5
	2090	1030	1250	1395	870		445/65 R 22.5

Recommended use for BPW chassis and suspensions: As specified in current BPW warranty documents.

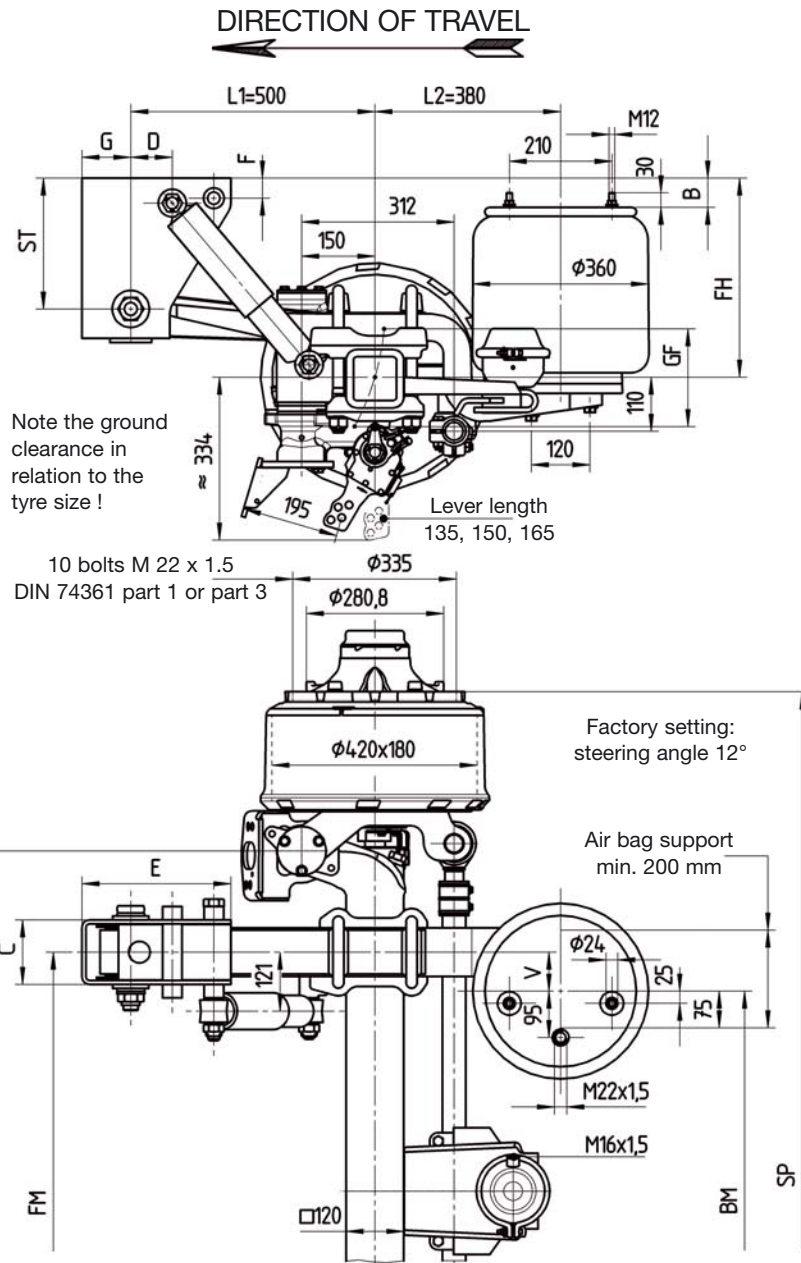
max. inclination angle of the semitrailer under full load and lowest adjustable ride height ±1°

With trailing arm L1=500 / L2=380, bag pressures acc. to TE-1188.0 sheet 11

The hanger brackets, air bag supports and the frame must be reinforced so that the forces applied can be absorbed. See the current BPW installation instructions.

With axle ratio - rigid axle to steering axle - of 1:1, when fitted with a lifting axle and when using central lubrication systems, the steering axles must be equipped with a steering damper.

Leaf spring		Steering tie rod position	Steering damper parts kit	Drawing
L1	L2			
500	380	312 / 110	05.872.00.53.0	04.00.074453



Line	Series	≈ adjustable ride height FH				Total spring travel GF ¹⁾	Air bag	Shock ³⁾ absorber 02.37...	Hanger bracket				Shock absorber mount		Con- ²⁾ sole B
		for axle units	min. FH with axle raised	Empty without air	Loaded without air				ST	C	E	G	D	F	
1	SLMML	315-355	345	245	230	190	36K	..22.83.00	184	130	236	100	80	37	--
2	SLMML	340-380	370	270	255	220	36	..22.83.00	184	130	236	100	80	37	--
3	SLMML	370-415	400	300	285	220	36	..22.83.00	268	130	305	100	85	51	--
4	SLMML	410-450	440	340	325	220	36	..22.83.00	268	130	305	100	170	41	60
5	SLMML	430-470	460	360	345	220	36	..22.83.00	268	130	305	100	170	41	100

1) Lifting heights acc. to TD-1242.0

2) The bracket is not included in supplied package

3) HD shock absorber 02.3722.04.00 acc. to table.

Recommended use: As specified in current BPW warranty documents.

4) M = diaphragm cylinder / F = spring brake cylinder

Axle type	Track SP	Spring centre FM	Steering pivot centre LBM	Air bag centre BM	Brake-cyl. 4)	Tyres recommended
				V=80		
HSFHSLMML 9010	2040	980	1395	820	M / F	385/65 R 22.5
	2095	1080	1450	920		
	2140	1080	1495	920		

max. inclination angle of the semitrailer under full load and lowest adjustable ride height ±1°

With trailing arm L1=500 / L2=380, bag pressures acc. to TE-1188.0 sheet 11

The hanger brackets, air bag supports and the frame must be reinforced so that the forces applied can be absorbed. See the current BPW installation instructions.

With axle ratio - rigid axle to steering axle - of 1:1, when fitted with a lifting axle and when using central lubrication systems, the steering axles must be equipped with a steering damper.

Leaf spring		Steering tie rod position	Steering damper parts kit	Drawing
L1	L2			
500	380	312 / 110	05.872.00.53.0	04.00.074453

Series SLMML

Air-spring axles with drum brake SN 4220

□ 150

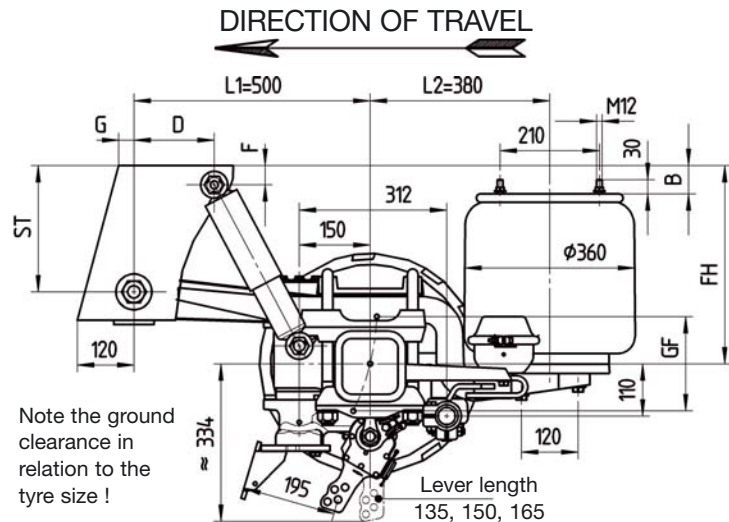
Axle load 11000-12000 kg

Ride height 330-500 mm

for semi-trailer

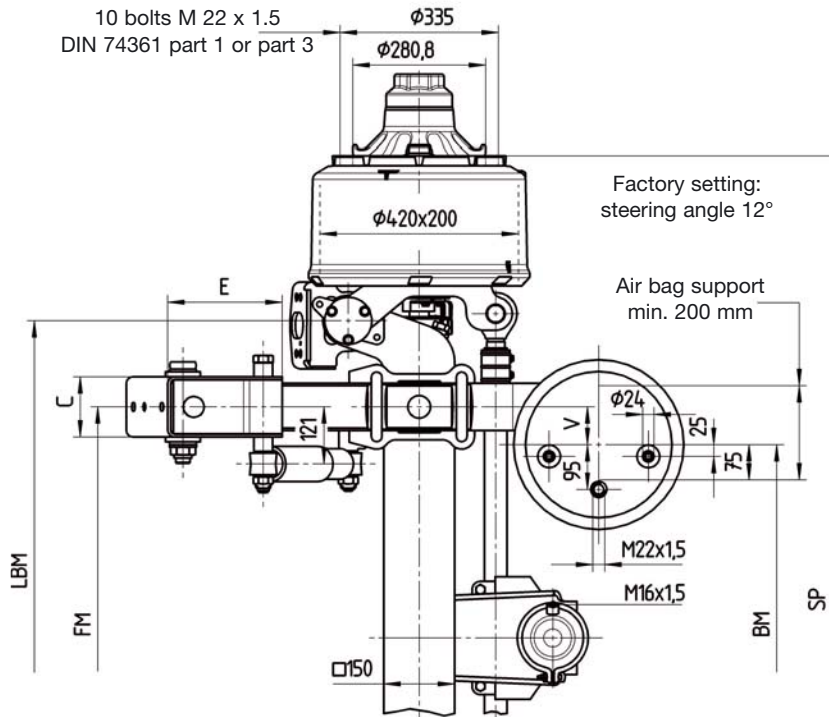
SL-SN.01

Sheet-no. 11a



Note the ground clearance in relation to the tyre size !

10 bolts M 22 x 1.5
DIN 74361 part 1 or part 3



Line	Series	≈ adjustable ride height FH				Total spring travel GF ¹⁾	Air bag	Shock absorber 02.37...	Hanger bracket				Shock absorber mount		Con-sole ²⁾ B
		for axle units	min. FH with axle raised	Empty without air	Loaded without air				ST	C	E	G	D	F	
1	SLMML	330-370	360	260	245	190	36K	..22.83.00	184	125	242	55	80	37	--
2	SLMML	355-415	385	285	270	220	36	..22.83.00	184	125	242	55	80	37	--
3	SLMML	385-445	415	315	300	220	36	..22.83.00	268	125	242	32	85	51	--
4	SLMML	420-460	450	350	335	220	36	..22.83.00	268	125	242	32	170	41	60
5	SLMML	445-500	475	375	360	220	36	..22.83.00	268	125	242	32	170	41	100

1) Lifting heights acc. to TD-1242.0

2) The bracket is not included in supplied package

3) The load rating of the tyre entered in the drawing is unrelated to the axle load capacity. It is depend on the information from the tyre manufacturer.

4) M = diaphragm cylinder / F = spring brake cylinder

Axle type	Track SP	Spring centre FM	Steering pivot centre LBM	Air bag centre BM	Brake-cyl. ⁴⁾	Tyres recommended ³⁾
				V=80		
HSFHSLMML 11..12010	2040	980	1345	820	M / F	425/65 R 22.5 445/65 R 22.5
	2090	1030	1395	870		

Recommended use for BPW chassis and suspensions: As specified in current BPW warrenty documents.

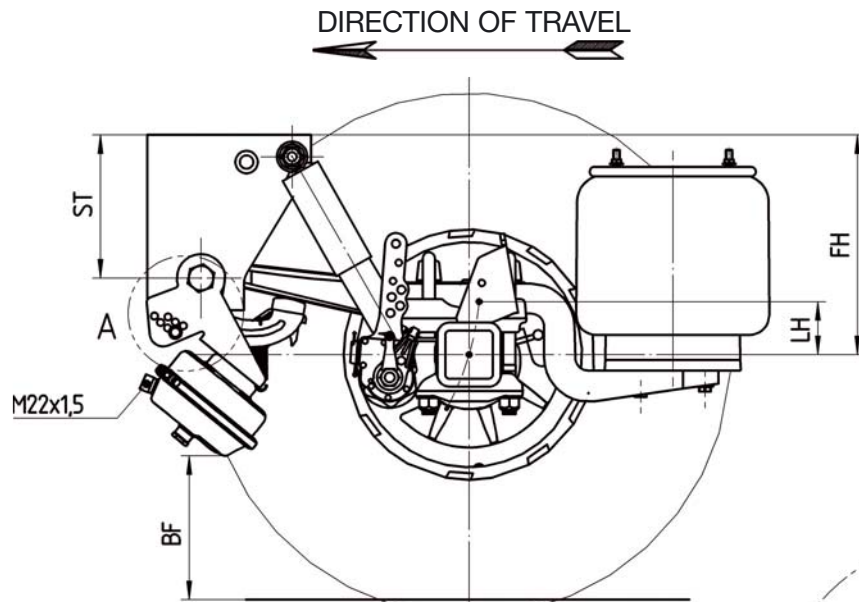
max. inclination angle of the semitrailer under full load and lowest adjustable ride height ±1°

With trailing arm L1=500 / L2=380, bag pressures acc. to TE-1188.0 sheet 11

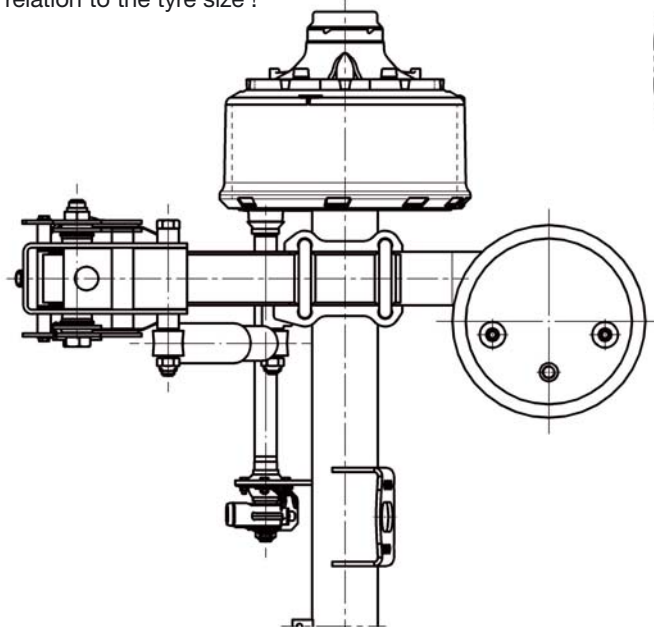
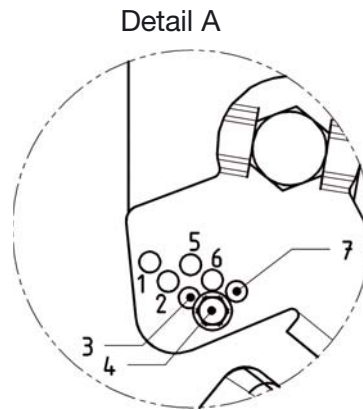
The hanger brackets, air bag supports and the frame must be reinforced so that the forces applied can be absorbed. See the current BPW installation instructions.

With axle ratio - rigid axle to steering axle - of 1:1, when fitted with a lifting axle and when using central lubrication systems, the steering axles must be equipped with a steering damper.

Leaf spring		Steering tie rod position	Steering damper parts kit	Drawing
L1	L2			
500	380	312 / 110	05.872.00.53.0	04.00.074453



* Note the ground clearance in relation to the tyre size !



Suspension to drawing SL-SN.01 Sheet-no.	≈ adjustable ride height FH		min. Lifting stroke LH	Support height ST	Ground clearance ≈ BF ¹⁾	Stop position in version
	for axle units	min. FH with axle raised				
Sheet 8	315-355	345	100	184	325	3
	340-380	370	100	184	350	7
	370-415	400	100	268	295	3
	410-450	440	100	268	340	7
	430-470	460	100	268	360	4
Sheet 8a	330-370	360	100	184	335	3
	355-415	385	100	184	365	7
	385-445	415	100	268	305	3
	420-460	450	100	268	340	7
Sheet 9	445-500	475	100	268	365	4
	340-380	370	100	184	355	4
	370-415	400	100	268	300	7
	410-450	440	100	268	340	4
Sheet 9a	430-470	460	100	268	360	4
	360-410	390	100	184	365	4
	390-440	420	100	268	305	7
	420-460	450	100	268	340	4
	450-500	480	100	268	370	4

¹⁾ Ground clearance in relation to the set minimum ride height with the axle raised.

* Tyre: 385/65 R 22.5 ($r_{stat} = 496$)

In the lifting and lowering version, the total spring travel must be limited by a shut-off valve.

Minimum air pressure for lifting the axle approx. 6 bar.

The hanger brackets, air bag supports and the frame must be strengthened so that they can adsorb the forces applied. See the current BPW installation instructions.

Series SLU

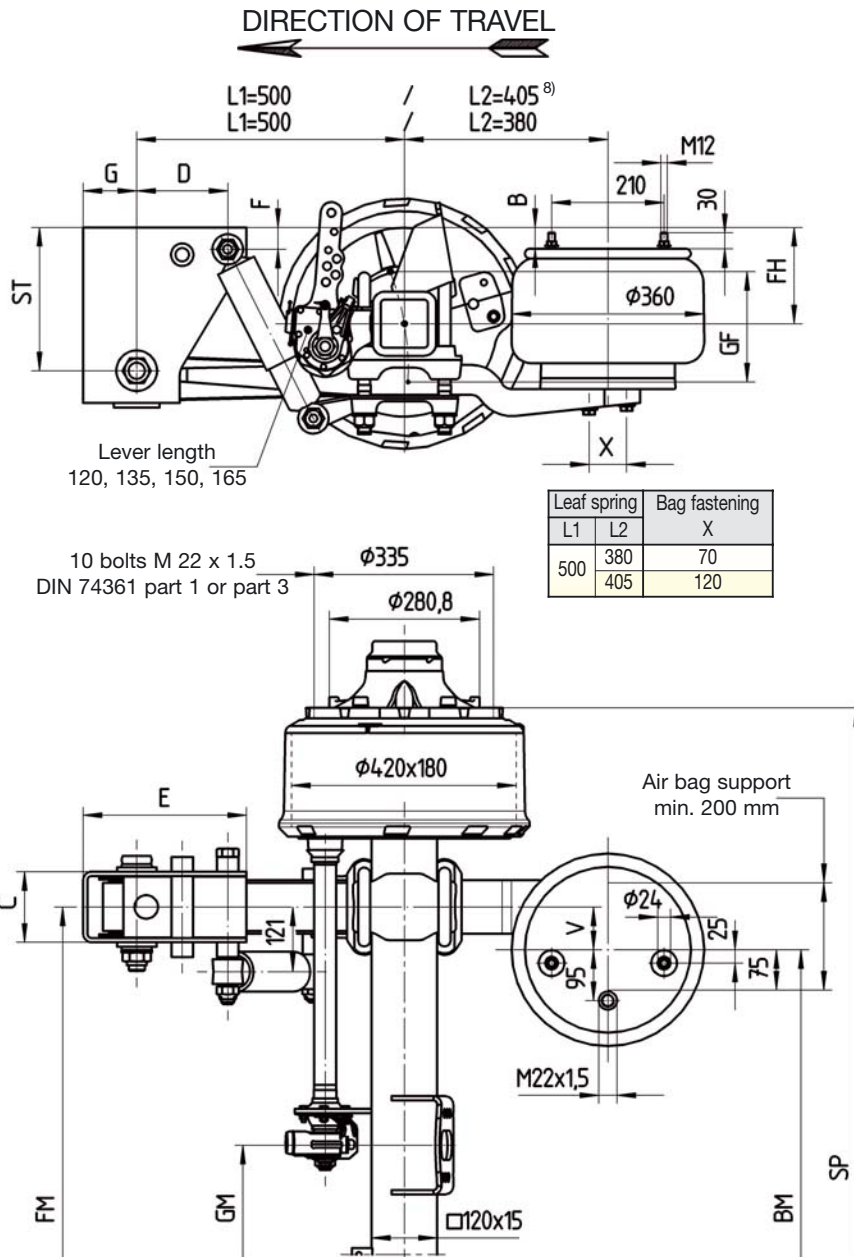
HD-air-spring axles with drum brake SN 4218

□ 120

Axle load 9000 kg

Ride height 190-350 mm
for trailer and semi-trailer

SL-SN.01
Sheet-no. 15



Line	Series	≈ adjustable ride height FH					Total spring travel (GF ¹⁾)	Air bag	Shock absorber 02.37...	Hanger bracket				Shock absorber mount		Con-sole ²⁾ B
		for single axles	for axle units	min. FH with axle raised	Empty without air	Loaded without air				ST	C	E	G	D	F	
1	SLU	190-240	200-240	230	130	115	190	36K	..22.83.00 ⁴⁾	268	130	305	100	85	51	--
2	SLU	215-260	225-260	255	155	140	220	36	..22.83.00 ⁴⁾	268	130	305	100	170	41	--
3)	SLU	235-280	245-280	275	175	160	260	36-1	..22.83.00 ⁴⁾	268	130	305	100	170	41	--
4	SLU	255-325	265-325	295	195	180	220	36	..22.88.00	370	130	328	100	140	90	--
5	SLU	290-350	300-350	330	230	215	220	36	..22.88.00	370	130	328	100	140	90	60

¹⁾ Lifting heights acc. to TD-1242.0

²⁾ The bracket is not included in supplied package

³⁾ A shut-off valve is required for the raising and lowering version

⁴⁾ HD shock absorber 02.3722.04.00 acc. to table.

Recommended use: As specified in current BPW warranty documents.

⁵⁾ M = diaphragm cylinder / F = spring brake cylinder

⁶⁾ Use F-air cylinder bracket with spring-loaded accumulator cylinder

⁷⁾ with Track = 1820 / Spring centre = 980, Rim 22.5 x 7.50 with centre distance = 320 mm

⁸⁾ In axle units used in conjunction with self-steering axles, use connection L2 = 405

Axle type	Track SP	Spring centre FM	Ground plate centre GM	Air bag centre BM	Brake-cyl. ⁵⁾	Tyres recommended
				V=80		
HSFSLU 9010	2040	1200	409	1040	M/F	385/65 R 22.5
		1300		1140		
HZFSLU 9010	1820	900	239	740	M/(F) ⁶⁾	275/70 R 22.5 ⁷⁾
		980		820		

max. inclination angle of the semitrailer under full load and lowest adjustable ride height ±1°

With trailing arm L1=500 / L2=380, bag pressures acc. to TE-1188.0 sheet 11

With trailing arm L1=500 / L2=405, bag pressures acc. to TE-1188.0 sheet 31

The hanger brackets, air bag supports and the frame must be reinforced so that the forces applied can be absorbed. See the current BPW installation instructions.

Series SLU

HD-Air-spring axles with drum brake SN 4220

□ 150

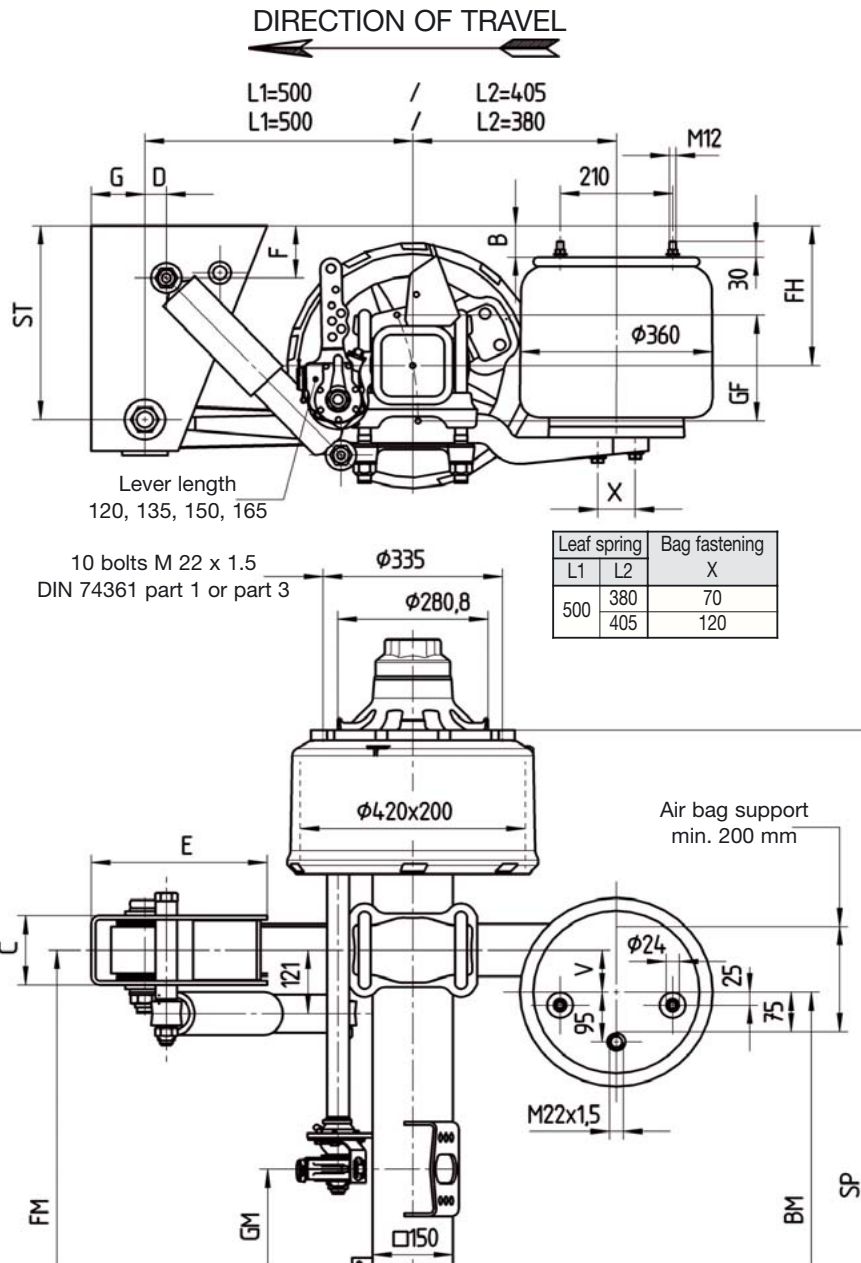
Axle load 11000-12000 kg

Ride height 210-360 mm

for trailer and semi-trailer

SL-SN.01

Sheet-no. 15a



Line	Series	~ adjustable ride height FH					Total spring travel GF 1)	Air bag	Shock absorber 02.37...	Hanger bracket				Shock absorber mount		Con- ²⁾ sole B
		for single axles	for axle units	min. FH with axle raised	Empty without air	Loaded without air				ST	C	E	G	D	F	
1	SLU	210-260	220-260	250	150	135	220	36	..22.88.00	302	130	236	100	75	35	--
2	SLU	240-290	250-290	280	180	165	220	36	..22.88.00	370	130	328	100	40	100	--
3	SLU	275-330	285-330	315	215	200	220	36	..22.88.00	370	130	328	100	40	100	60
4	SLU	300-360	310-360	340	240	225	220	36	..02.20.00	370	130	328	100	40	100	100

1) Lifting heights acc. to TD-1242.0

2) The bracket is not included in supplied package

3) M = diaphragm cylinder / F = spring brake cylinder

4) Use F-air cylinder bracket with spring-loaded accumulator cylinder

5) The load rating of the tyre entered in the drawing is unrelated to the axle load capacity. It is depend on the information from the tyre manufacturer.

6) Tyre 295/80 R 22.5 only with track = 1820 / spring centre = 900 possible.

7) with track = 1820 / spring centre = 980, Rim 22.5 x 7.50 with centre distance = 320 mm

Axle type	Track SP	Spring centre FM	Ground plate centre GM	Air bag centre BM	Brake-cyl. ³⁾	Tyres recommended ⁵⁾
				V=80		
HSFSLU 11..12010	2040	1200	365	1040	M/F	425/65 R 22.5 445/65 R 22.5
		1300		1140		
HZFSLU 11..12010	1820	900	261	740	M/(F) ⁴⁾	275/70 R 22.5 ⁷⁾ 295/80 R 22.5 ⁶⁾
		980		820		

max. inclination angle of the semitrailer under full load and lowest adjustable ride height $\pm 1^\circ$

With trailing arm L1=500 / L2=380, bag pressures acc. to TE-1188.0 sheet 11

The hanger brackets, air bag supports and the frame must be reinforced so that the forces applied can be absorbed. See the current BPW installation instructions.

Series SLU

HD-Air spring axles with drum brake SN 3620

□ 120

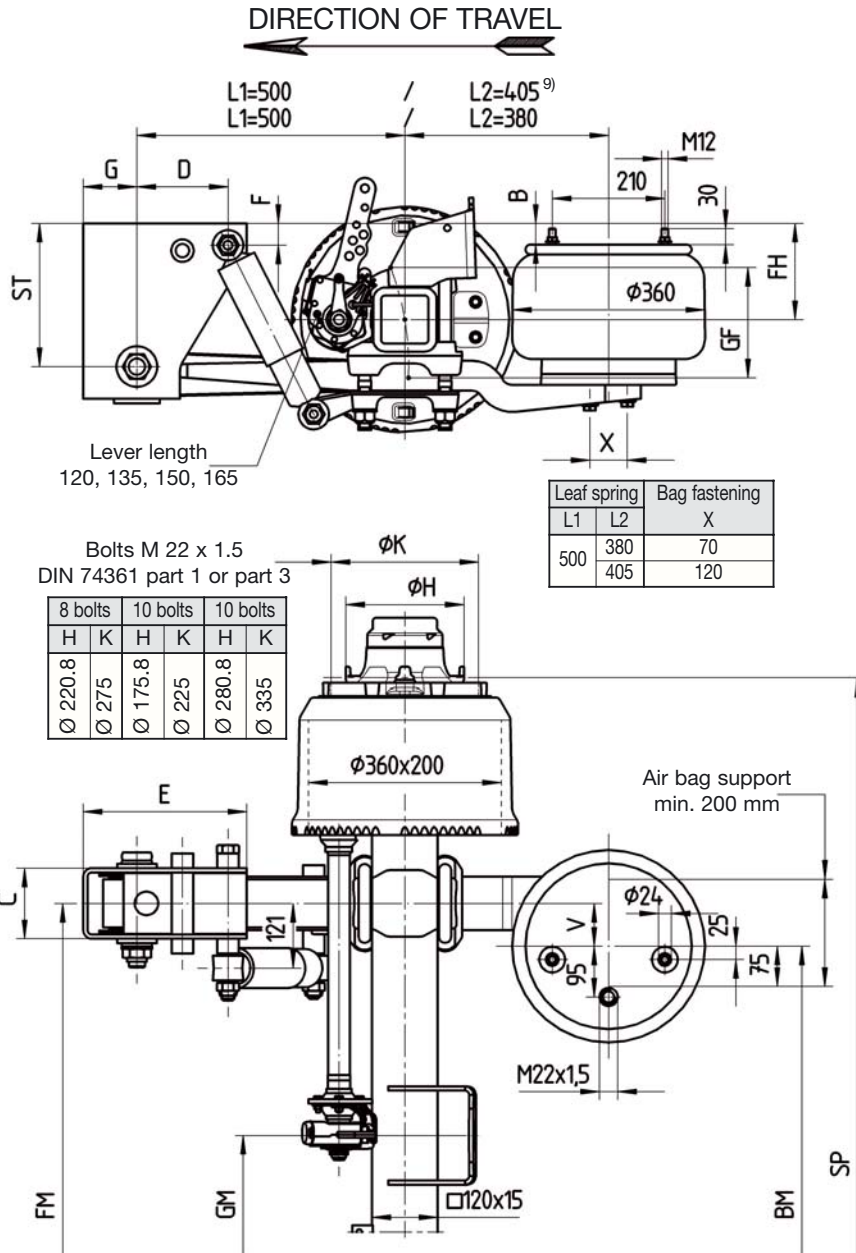
Axle load 9000-11000 kg

Ride height 190-350 mm

for trailer and semi-trailer

SL-SN.01

Sheet-no.15b



Line	Series	~ adjustable ride height FH					Total spring travel (GF ¹⁾)	Air bag	Shock absorber 02.37...	Hanger bracket				Shock absorber mount		Con-sole ²⁾ B
		for single axles	for axle units	min. FH with axle raised	Empty without air	Loaded without air				ST	C	E	G	D	F	
1	SLU	190-240	200-240	230	130	115	190	36K	..22.83.00 ⁴⁾	268	130	305	100	85	51	--
2	SLU	215-260	225-260	255	155	140	220	36	..22.83.00 ⁴⁾	268	130	305	100	170	41	--
3	SLU	235-280	245-280	275	175	160	260	36-1	..22.83.00 ⁴⁾	268	130	305	100	170	41	--
4	SLU	255-325	265-325	295	195	180	220	36	..22.88.00	370	130	328	100	140	90	--
5	SLU	290-350	300-350	330	230	215	220	36	..22.88.00	370	130	328	100	140	90	60

1) Lifting heights acc. to TD-1242.0

2) The bracket is not included in supplied package

3) A shut-off valve is required for the raising and lowering version

4) HD shock absorber 02.3722.04.00 acc. to table.

Recommended use: As specified in current BPW warranty documents.

5) M = diaphragm cylinder / F = spring brake cylinder

6) Use F-air cylinder bracket with spring-loaded accumulator cylinder

7) The load rating of the tyre entered in the drawing is unrelated to the axle load capacity.

It is depend on the information from the tyre manufacturer.

8) Tyre 285/70 R19.5 only with track = 1880, spring centre = 980 possible

9) In axle units used in conjunction with self-steering axles, use connection L2 = 405

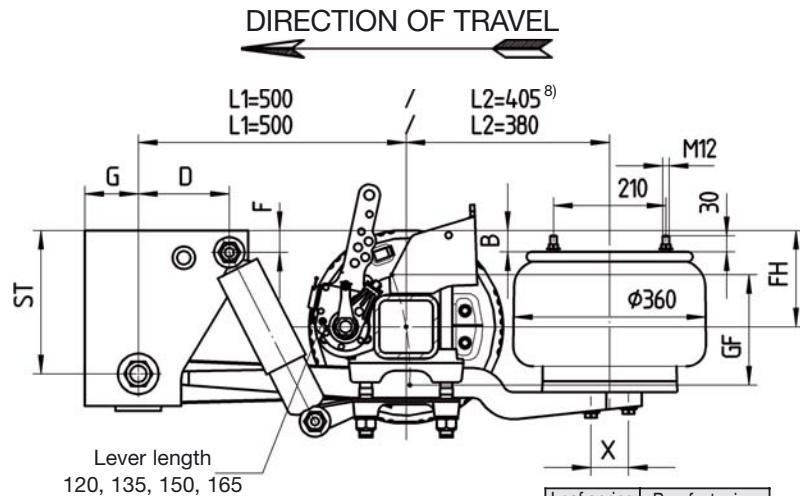
Axle type	Track SP with axle type			Spring centre FM	Ground plate centre GM	Air bag centre		Bake-cyl. ⁵⁾	Tyres recommended ⁷⁾
	..9008	..9010	..11008 ..11010			V=80			
KHSFSLU 90..	2045	2040	----	1200	361	1040		M / F	425/55 R 19.5 445/65 R 19.5
				1300		1140			
KHZFSLU 90..	1835	----	----	980	237	820		M / (F) ⁶⁾	245/70 R 19.5 265/70 R 19.5
				1100		940			
KHZFSLU 110..	----	----	1830	980	239	820		M / (F) ⁶⁾	265/70 R 19.5 285/70 R 19.5 ⁸⁾
			1880			820			
			1930			940			

max. inclination angle of the semitrailer under full load and lowest adjustable ride height ±1°

With trailing arm L1=500 / L2=380, bag pressures acc. to TE-1188.0 sheet 11

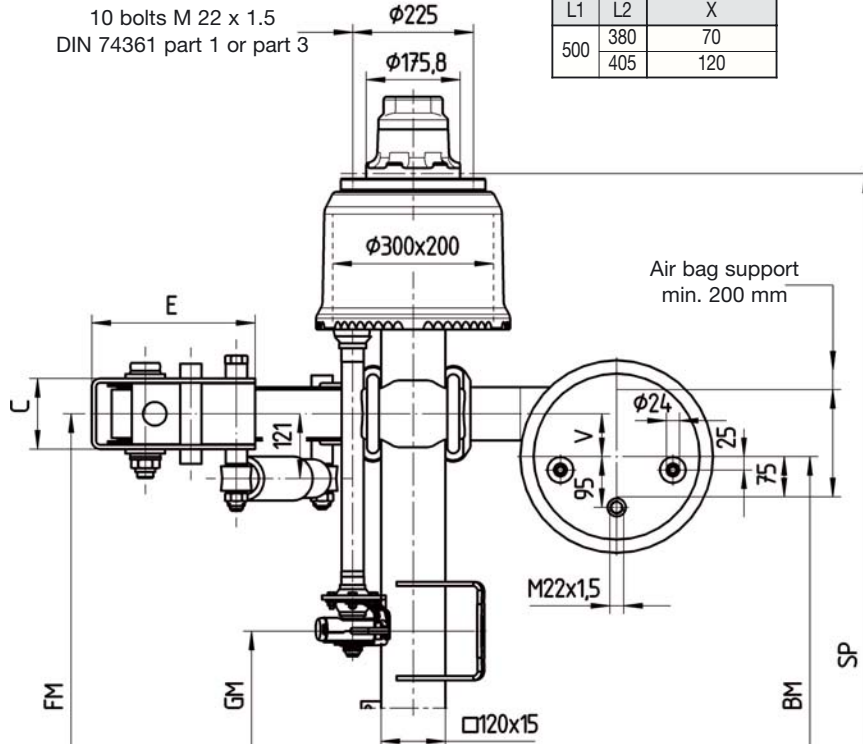
With trailing arm L1=500 / L2=405, bag pressures acc. to TE-1188.0 sheet 31

The hanger brackets, air bag supports and the frame must be reinforced so that the forces applied can be absorbed. See the current BPW installation instructions.



Leaf spring		Bag fastening
L1	L2	X
500	380	70
	405	120

10 bolts M 22 x 1.5
DIN 74361 part 1 or part 3



Line	Series	≈ adjustable ride height FH					Total spring travel (GF ¹⁾)	Air bag	Shock absorber 02.37...	Hanger bracket				Shock absorber mount		Con-sole ²⁾ B
		for single axles	for axle units	min. FH with axle raised	Empty without air	Loaded without air				ST	C	E	G	D	F	
1	SLU	190-240	200-240	230	130	115	190	36K	..22.83.00 ⁴⁾	268	130	305	100	85	51	--
2	SLU	215-260	225-260	255	155	140	220	36	..22.83.00 ⁴⁾	268	130	305	100	170	41	--
3)	SLU	235-280	245-280	275	175	160	260	36-1	..22.83.00 ⁴⁾	268	130	305	100	170	41	--
4	SLU	255-325	265-325	295	195	180	220	36	..22.88.00	370	130	328	100	140	90	--
5	SLU	290-350	300-350	330	230	215	220	36	..22.88.00	370	130	328	100	140	90	60

1) Lifting heights acc. to TD-1242.0

2) The bracket is not included in supplied package

3) A shut-off valve is required for the raising and lowering version

4) HD shock absorber 02.3722.04.00 acc. to table.

Recommended use: As specified in current BPW warranty documents.

5) M = diaphragm cylinder / F = spring brake cylinder

6) Use F-air cylinder bracket with spring-loaded accumulator cylinder

7) The load rating of the tyre entered in the drawing is unrelated to the axle load capacity.

It is depend on the information from the tyre manufacturer.

8) In axle units used in conjunction with self-steering axles, use connection L2 = 405

Axle type	Track SP	Spring centre FM	Ground plate centre GM	Air bag centre BM	Brake-cyl. ⁵⁾	Tyres recommended ⁷⁾
				V=80		
NHZFSLU 9010	1830	980	243	820	M / (F) ⁶⁾	235/75 R 17.5 245/70 R 17.5
	1950	1100	247	940	M / F	
	1995	1100	292	940	M / F	
NHZFSLU 11010	1830	980	239	820	M / (F) ⁶⁾	235/75 R 17.5 245/70 R 17.5
	1950	1100	277	940	M / F	
	1995	1100	288	940	M / F	

max. inclination angle of the semitrailer under full load and lowest adjustable ride height ±1°

With trailing arm L1=500 / L2=380, bag pressures acc. to TE-1188.0 sheet 11

With trailing arm L1=500 / L2=405, bag pressures acc. to TE-1188.0 sheet 31

The hanger brackets, air bag supports and the frame must be reinforced so that the forces applied can be absorbed. See the current BPW installation instructions.

Series SLU

Long-stroke air-spring axles with drum brake SN 3620

□ 120

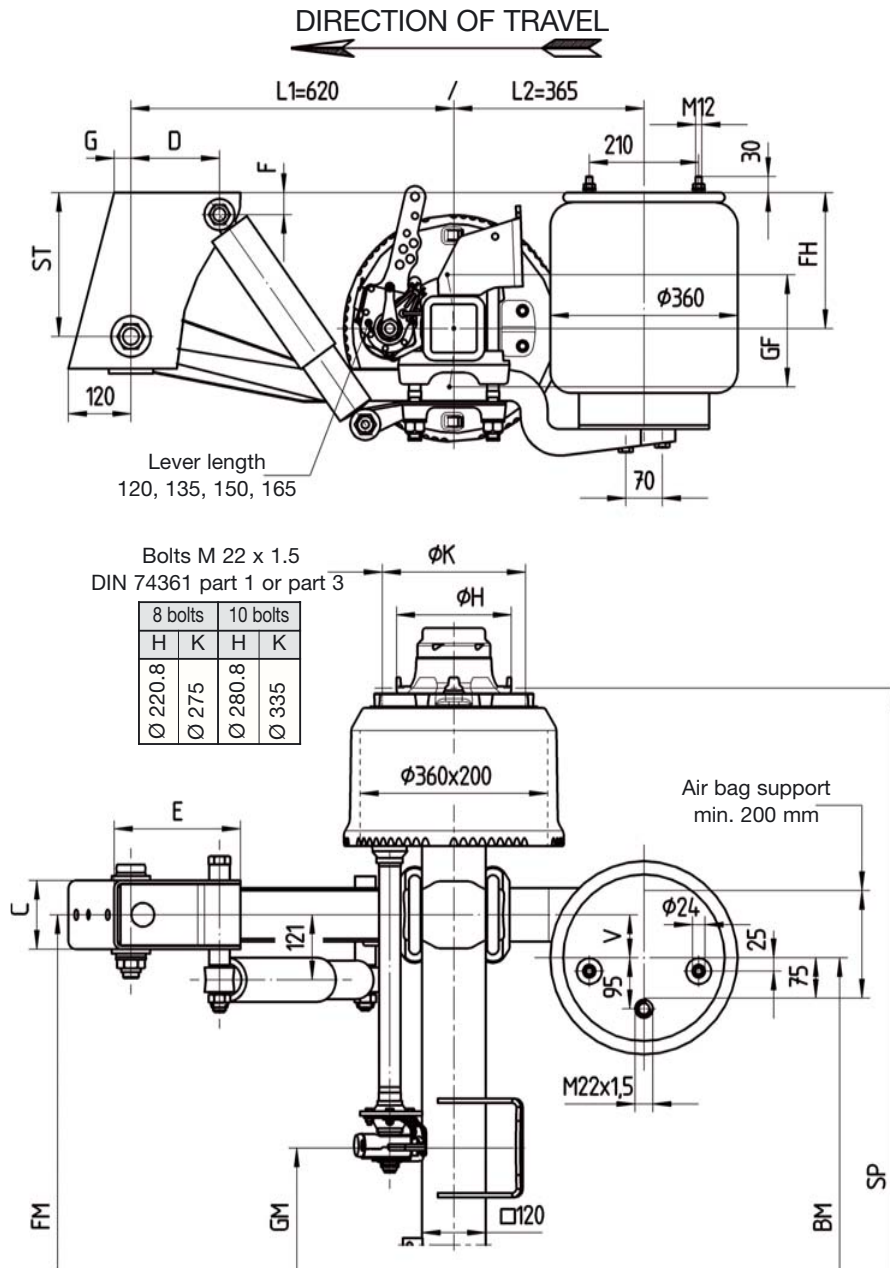
Axle load 9000 kg

Ride height 185-350 mm

for trailer and semi-trailer

SL-SN.01

Sheet-no. 15d



Line	Series	≈ adjustabel ride height FH					Total spring travel GF ¹⁾	Air bag	Shock absorber 02.37...	Hanger bracket				Shock absorber mount		
		for single axles	for axle units	min. FH with axle raised	Empty without air	Loaded without air				ST	C	E	G	D	F	
2) 4)	1	SLU	185-280	195-280	225	125	110	300	36-1	..22.88.00	184	125	242	55	130	35
2)	2	SLU	220-350	230-350	260	160	145	310	36-1	..02.20.00	268	125	242	32	170	41

- 1) Lifting heights acc. to TD-1242.0
- 2) A shut-off valve is required for the raising and lowering version
- 3) M = diaphragm cylinder / F = spring brake cylinder
- 4) Only suitable for semi-trailer / centre axle drawbar trailer
- 5) Use F-air cylinder bracket with spring-loaded accumulator cylinder

Axle type	Track SP with axle type		Spring centre FM	Ground plate centre GM	Air bag centre BM	Brake-cyl. ³⁾	Tyres recommended
	..9008	..9010			V=80		
KHSFSLU 90..	2005	2000	1200	321	1040	M / F	385/65 R 19.5 445/45 R 19.5
	2045	2040	1300	361	1140		
KHZFSLU 90..	1835 ⁴⁾	---	980	237	820	M / (F) ⁵⁾	265/70 R 19.5
	1935	---	1100	297	1140		

In long-stroke air suspension systems, note ground clearance on delivery.

max. inclination angle of the semitrailer under full load and lowest adjustable ride height ±1°

With trailing arm L1=620 / L2=365, bag pressures acc. to TE-1188.0 sheet 28

The hanger brackets, air bag supports and the frame must be reinforced so that the forces applied can be absorbed. See the current BPW installation instructions.

Series SLULL

HD-air spring axles with drum brake SN 3020

□ 120

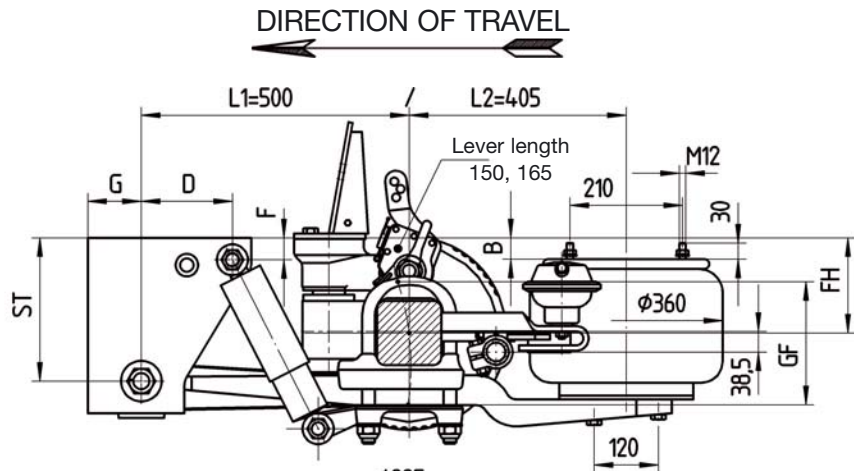
Axle load 9000-12000 kg

Ride height 200-350 mm

for semi-trailer

SL-SN.01

Sheet-no. 15e

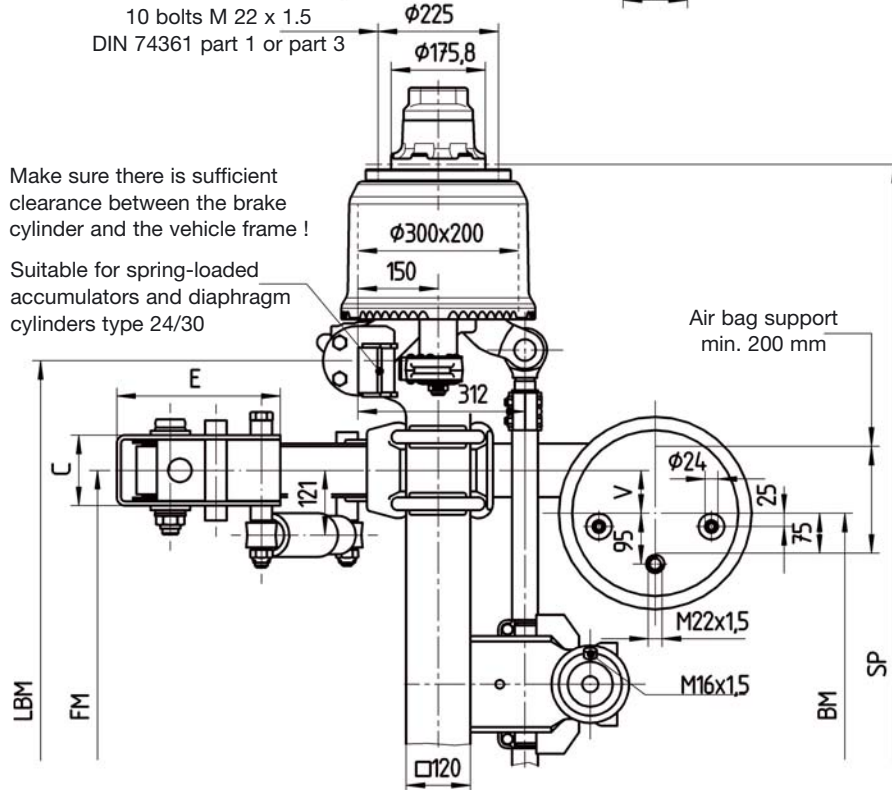


10 bolts M 22 x 1.5
DIN 74361 part 1 or part 3

Make sure there is sufficient clearance between the brake cylinder and the vehicle frame !

Suitable for spring-loaded accumulators and diaphragm cylinders type 24/30

Air bag support min. 200 mm



Line	Series	~ adjustabel ride height FH				Total spring travel (GF ¹⁾)	Air bag	Shock absorber 02.37...	Hanger bracket				Shock absorber mount		Con-sole ²⁾ B
		for axle units	min. FH with axle raised	Empty without air	Loaded without air				ST	C	E	G	D	F	
1	SLULL	200-240	230	130	115	190	36K	..22.83.00 ⁴⁾	268	130	305	100	85	51	--
2	SLULL	225-260	255	155	140	220	36	..22.83.00 ⁴⁾	268	130	305	100	170	41	--
3	SLULL	245-280	275	175	160	260	36-1	..22.83.00 ⁴⁾	268	130	305	100	170	41	--
4	SLULL	265-325	295	195	180	220	36	..22.88.00	370	130	328	100	140	90	--
5	SLULL	300-350	330	230	215	220	36	..22.88.00	370	130	328	100	140	90	60

¹⁾ Lifting heights acc. to TD-1242.0

²⁾ The bracket is not included in supplied package

³⁾ A shut-off valve is required for the raising and lowering version

⁴⁾ HD shock absorber 02.3722.04.00 acc. to table.

Recommended use: As specified in current BPW warrenty documents.

⁵⁾ The load rating of the tyre entered in the drawing is unrelated to the axle load capacity. It is depend on the information from the tyre manufacturer.

Axle type	Track SP	Spring centre FM	Steering pivot centre LBM	Air bag centre BM	Steering angle LE	Tyres recommended ⁵⁾
NHZFSLULL 9010	1840	710	1105	620	15°	235/75 R 17.5 245/70 R 17.5
	1945	840	1210	680	20°	
	1985	840	1250	680	20°	
NMZFSLULL 12010	1840	710	1105	620	15°	235/75 R 17.5 245/70 R 17.5
	1945	840	1210	680	20°	
	1990	840	1255	680	20°	

max. inclination angle of the semitrailer under full load and lowest adjustable ride height ±1°

With trailing arm L1=500 / L2=405, bag pressures acc. to TE-1188.0 sheet 31

The hanger brackets, air bag supports and the frame must be reinforced so that the forces applied can be absorbed. See the current BPW installation instructions.

With axle ratio - rigid axle to steering axle - of 1:1, when fitted with a lifting axle and when using central lubrication systems, the steering axles must be equipped with a steering damper.

Leaf spring		Steering tie rod position	Steering damper parts kit	Drawing
L1	L2			
500	405	312 / 38.5	05.872.00.51.0	04.00.073019

Series SLU

HD-Air-spring axles with drum brake SN 4218

□ 120

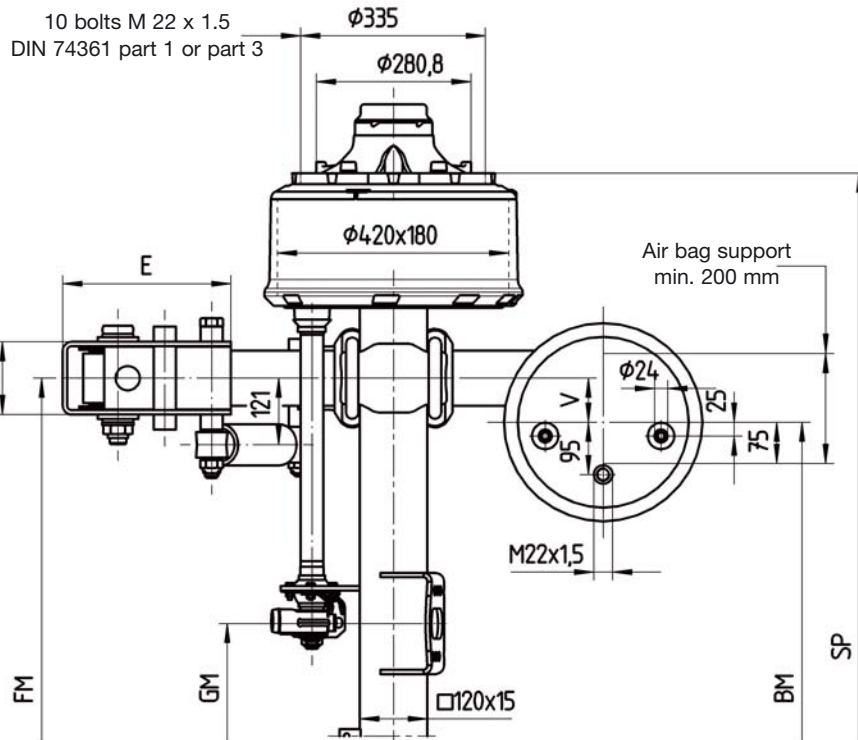
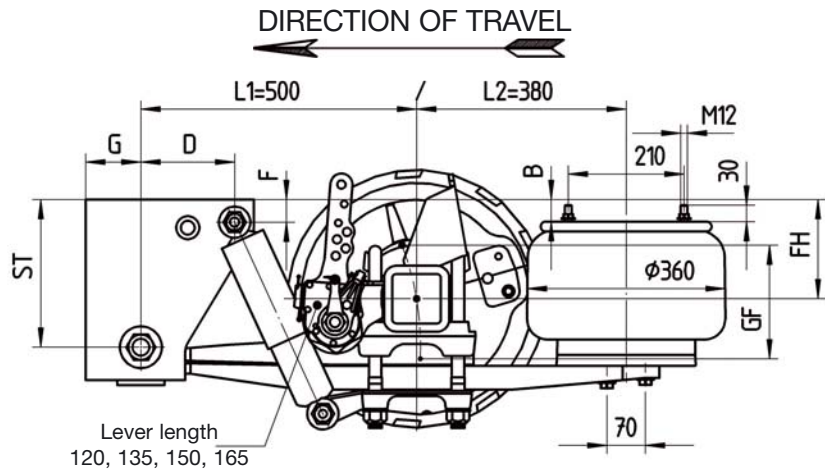
Axle load 9000 kg

Ride height 190-350 mm

for trailer and semi-trailer

SL-SN.01

Sheet-no. 16



Line	Series	~ adjustable ride height FH					Total spring travel GF 1)	Air bag	Shock absorber 02.37...	Hanger bracket				Shock absorber mount		Con- ²⁾ sole B
		for single axles	for axle units	min. FH with axle raised	Empty without air	Loaded without air				ST	C	E	G	D	F	
1	SLU	190-240	200-240	230	130	115	190	36K	..22.83.00 ⁴⁾	268	130	305	100	170	41	--
2	SLU	215-260	225-260	255	155	140	220	36	..22.83.00 ⁴⁾	268	130	305	100	170	41	--
3)	SLU	235-280	245-280	275	175	160	260	36-1	..22.88.00	268	130	305	100	170	41	--
4	SLU	255-325	265-325	295	195	180	220	36	..22.88.00	370	130	328	100	140	90	--
5	SLU	290-350	300-350	330	230	215	220	36	..22.88.00	370	130	328	100	140	90	60

1) Lifting heights acc. to TD-1242.0

2) The bracket is not included in supplied package

3) A shut-off valve is required for the raising and lowering version

4) HD shock absorber 02.3722.04.00 acc. to table.

Recommended use: As specified in current BPW warranty documents.

5) M = diaphragm cylinder / F = spring brake cylinder

6) Use F-air cylinder bracket with spring-loaded accumulator cylinder

7) with Track = 1820 / Spring centre = 980, Rim 22.5 x 7.50 with centre distance = 320 mm

Axle type	Track SP	Spring centre FM	Ground plate centre GM	Air bag centre BM	Brake-cyl. ⁵⁾	Tyres recommended
				V=80		
HSFSLU 9010	2040	1200	409	1040	M/F	385/65 R 22.5
		1300		1140		
HZFSLU 9010	1820	900	239	740	M/(F) ⁶⁾	275/70 R 22.5 ⁷⁾
		980		820		

max. inclination angle of the semitrailer under full load and lowest adjustable ride height $\pm 1^\circ$

With trailing arm L1=500 / L2=380, bag pressures acc. to TE-1188.0 sheet 11

The hanger brackets, air bag supports and the frame must be reinforced so that the forces applied can be absorbed. See the current BPW installation instructions.

Series SLU

Air-spring axles with drum brake SN 4220

□ 150

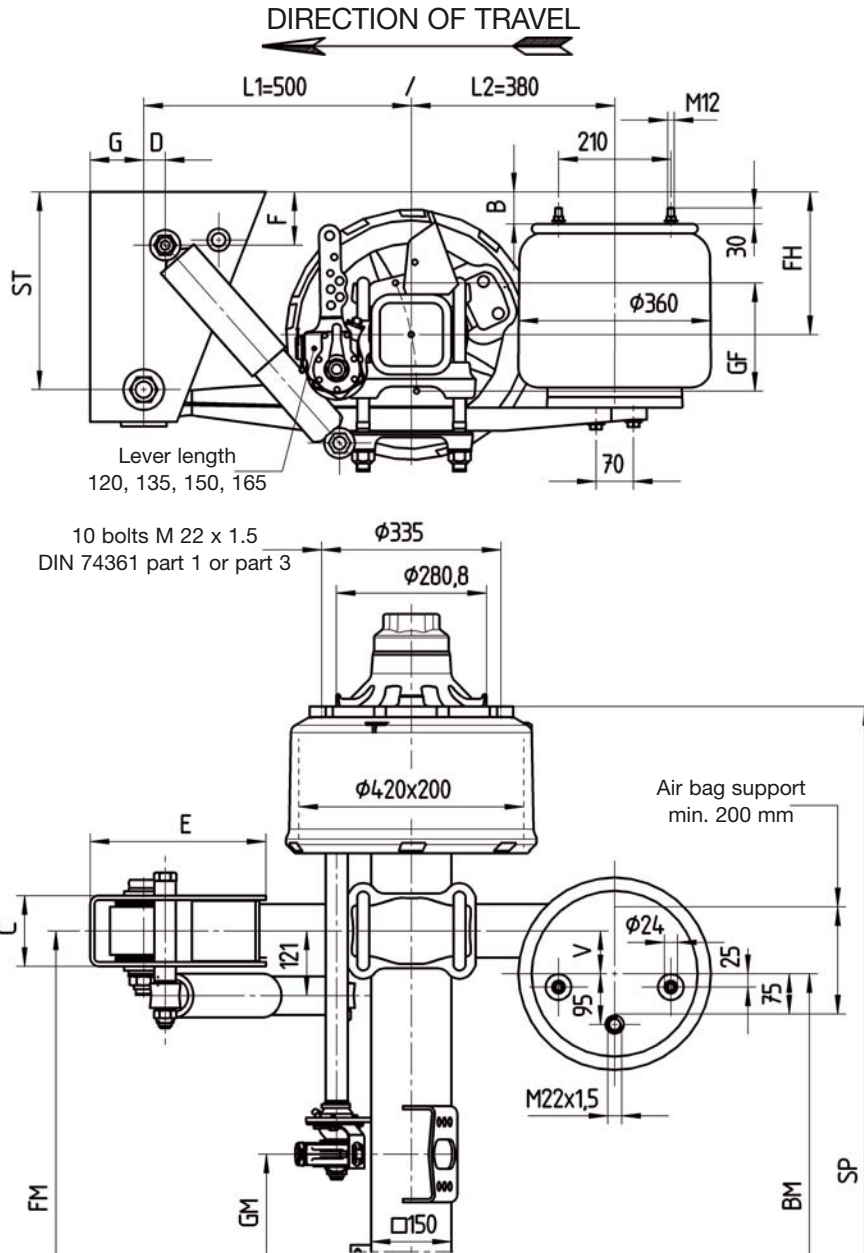
Axle load 11000-12000 kg

Ride height 210-360 mm

for trailer and semi-trailer

SL-SN.01

Sheet-no. 16a



Line	Series	≈ adjustable ride height FH					Total spring travel GF ¹⁾	Air bag	Shock absorber 02.37...	Hanger bracket				Shock absorber mount		Con ²⁾ sole B
		for single axles	for axle units	min. FH with axle raised	Empty without air	Loaded without air				ST	C	E	G	D	F	
1	SLU	210-260	220-260	250	150	135	220	36	..22.88.00	302	130	236	100	75	35	--
2	SLU	240-290	250-290	280	180	165	220	36	..02.20.00	370	130	328	100	40	100	--
3	SLU	275-330	285-330	315	215	200	220	36	..02.20.00	370	130	328	100	40	100	60
4	SLU	300-360	310-360	340	240	225	220	36	..02.20.00	370	130	328	100	40	100	100

1) Lifting heights acc. to TD-1242.0

2) The bracket is not included in supplied package

3) M = diaphragm cylinder / F = spring brake cylinder

4) Use F-air cylinder bracket with spring-loaded accumulator cylinder

5) The load rating of the tyre entered in the drawing is unrelated to the axle load capacity.

It is depend on the information from the tyre manufacturer.

6) Tyre 295/80 R 22.5 only with track = 1820 / spring centre = 900 possible.

7) with track = 1820 / spring centre = 980, Rim 22.5 x 7.50 with centre distance = 320 mm

Axle type	Track SP	Spring centre FM	Ground plate centre GM	Air bag centre BM	Brake-cyl. ³⁾	Tyres recommended ⁵⁾
				V=80		
HSFSLU 11..12010	2040	1200	365	1040	M/F	425/65 R 22.5 445/65 R 22.5
		1300		1140		
HZFSLU 11..12010	1820	900	261	740	M/(F) ⁴⁾	275/70 R 22.5 ⁷⁾ 295/80 R 22.5 ⁶⁾
		980		820		

Recommended use for BPW chassis and suspensions: As specified in current BPW warranty documents.

max. inclination angle of the semitrailer under full load and lowest adjustable ride height ±1°

With trailing arm L1=500 / L2=380, bag pressures acc. to TE-1188.0 sheet 11

The hanger brackets, air bag supports and the frame must be reinforced so that the forces applied can be absorbed. See the current BPW installation instructions.

Series SLU

HD-Air spring axles with drum brake SN 3620

□ 120

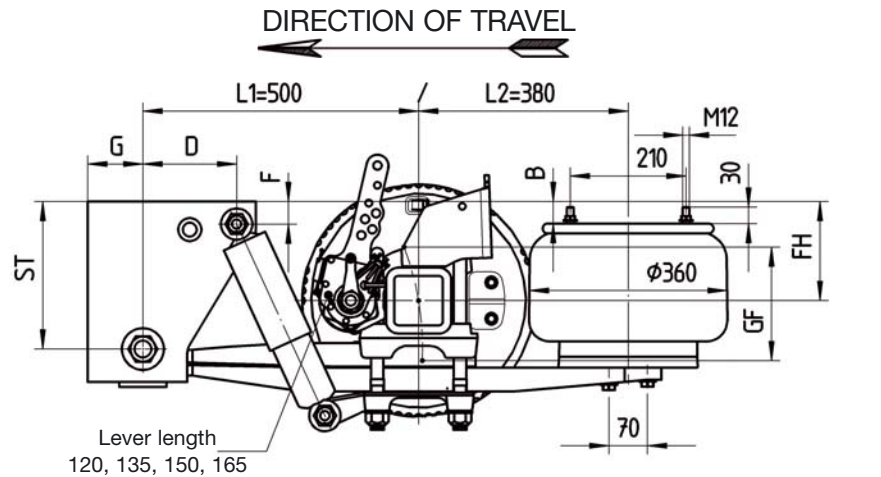
Axle load 9000-11000 kg

Ride height 190-350 mm

for trailer and semi-trailer

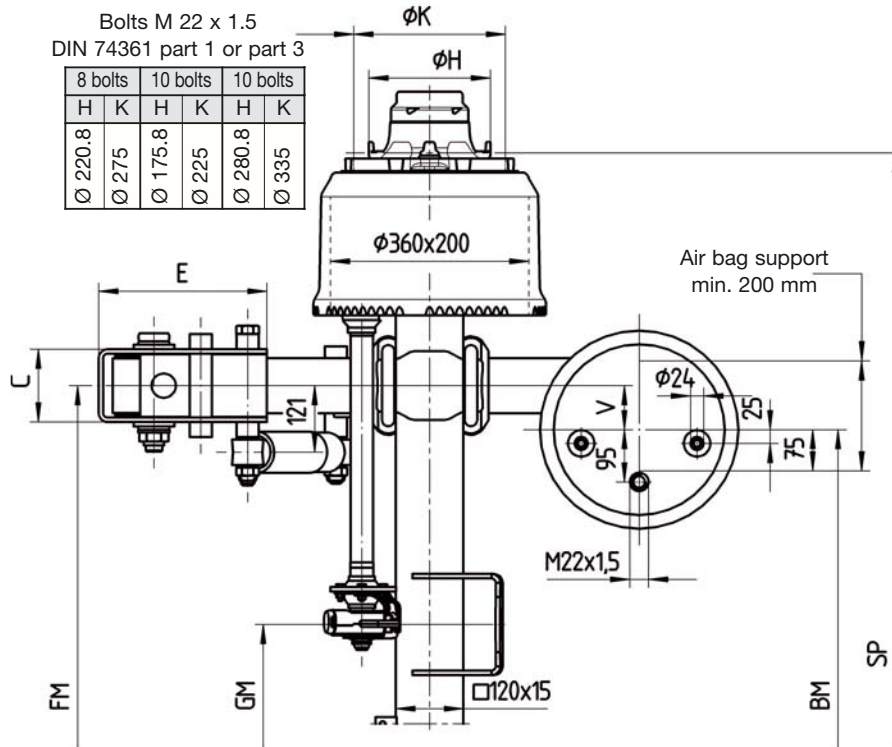
SL-SN.01

Sheet-no. 16b



Bolts M 22 x 1.5
DIN 74361 part 1 or part 3

8 bolts		10 bolts		10 bolts	
H	K	H	K	H	K
Ø 220.8	Ø 275	Ø 175.8	Ø 225	Ø 280.8	Ø 335



Line	Series	~ adjustable ride height FH					Total spring travel (GF ¹⁾)	Air bag	Shock absorber 02.37...	Hanger bracket				Shock absorber mount		Con-sole ²⁾ B
		for single axles	for axle units	min. FH with axle raised	Empty without air	Loaded without air				ST	C	E	G	D	F	
1	SLU	190-240	200-240	230	130	115	190	36K	..22.83.00 ⁴⁾	268	130	305	100	170	41	--
2	SLU	215-260	225-260	255	155	140	220	36	..22.83.00 ⁴⁾	268	130	305	100	170	41	--
3	SLU	235-280	245-280	275	175	160	260	36-1	..22.88.00	268	130	305	100	170	41	--
4	SLU	255-325	265-325	295	195	180	220	36	..22.88.00	370	130	328	100	140	90	--
5	SLU	290-350	300-350	330	230	215	220	36	..22.88.00	370	130	328	100	140	90	60

- 1) Lifting heights acc. to TD-1242.0
- 2) The bracket is not included in supplied package
- 3) A shut-off valve is required for the raising and lowering version
- 4) HD shock absorber 02.3722.04.00 acc. to table.
Recommended use: As specified in current BPW warranty documents.
- 5) M = diaphragm cylinder / F = spring brake cylinder
- 6) Use F-air cylinder bracket with spring-loaded accumulator cylinder
- 7) The load rating of the tyre entered in the drawing is unrelated to the axle load capacity.
It is depend on the information from the tyre manufacturer.
- 8) Tyre 285/70 R19.5 only with track = 1880, spring centre = 980 possible

Axle type	Track SP with axle type			Spring centre FM	Ground plate centre GM	Air bag centre V=80	Bake-cyl. ⁵⁾	Tyres recommended ⁷⁾
	..9008	..9010	..11008 ..11010					
KHSFSLU 90..	2045	2040	----	1200	361	1040	M / F	425/55 R 19.5
				1300		1140		445/65 R 19.5
KHZFSLU 90..	1835	----	----	980	237	820	M / (F) ⁶⁾	245/70 R 19.5
				1100		940		265/70 R 19.5
KHZFSLU 110..	----	----	1830	980	239	820	M / (F) ⁶⁾	265/70 R 19.5
				1880		820		285/70 R 19.5 ⁸⁾
				1100		940		M / F

max. inclination angle of the semitrailer under full load and lowest adjustable ride height $\pm 1^\circ$

With trailing arm L1=500 / L2=380, bag pressures acc. to TE-1188.0 sheet 11

The hanger brackets, air bag supports and the frame must be reinforced so that the forces applied can be absorbed. See the current BPW installation instructions.

Series SLU

HD-Air spring axles with drum brake SN 3020

□ 120

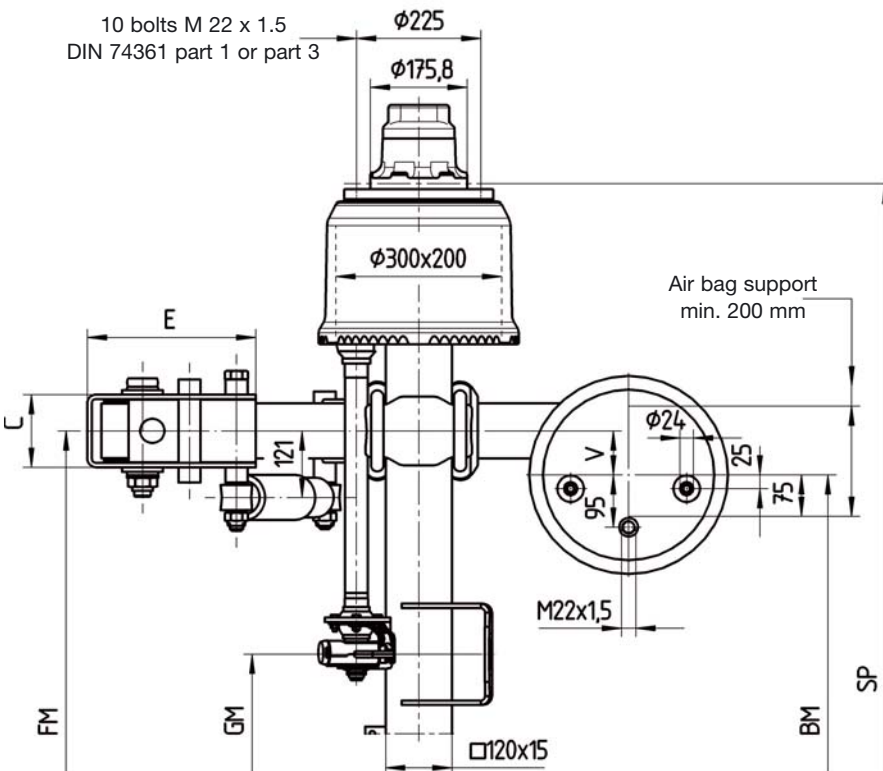
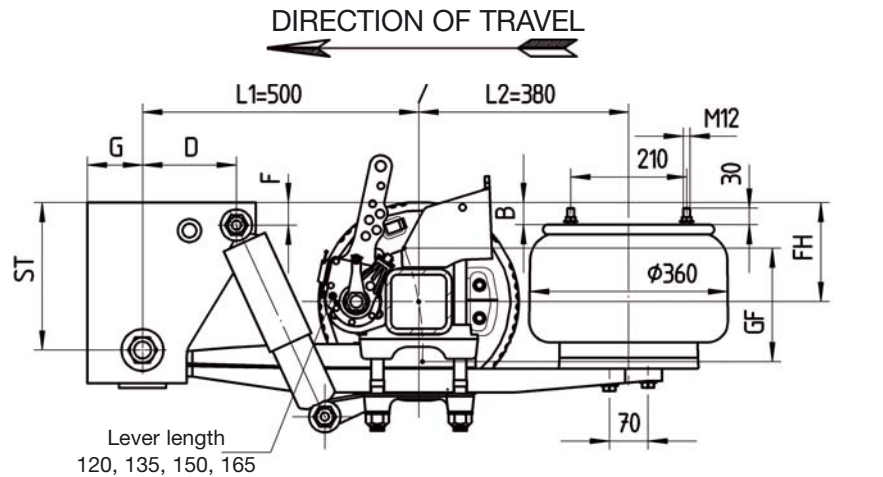
Axle load 9000-11000kg

Ride height 190-350 mm

for trailer and semi-trailer

SL-SN.01

Sheet-no. 16c



Line	Series	~ adjustable ride height FH					Total spring travel (GF ¹⁾)	Air bag	Shock absorber 02.37...	Hanger bracket				Shock absorber mount		Con-sole ²⁾ B
		for single axles	for axle units	min. FH with axle raised	Empty without air	Loaded without air				ST	C	E	G	D	F	
1	SLU	190-240	200-240	230	130	115	190	36K	..22.83.00 ⁴⁾	268	130	305	100	170	41	--
2	SLU	215-260	225-260	255	155	140	220	36	..22.83.00 ⁴⁾	268	130	305	100	170	41	--
3	SLU	235-280	245-280	275	175	160	260	36-1	..22.88.00	268	130	305	100	170	41	--
4	SLU	255-325	265-325	295	195	180	220	36	..22.88.00	370	130	328	100	140	90	--
5	SLU	290-350	300-350	330	230	215	220	36	..22.88.00	370	130	328	100	140	90	60

- Lifting heights acc. to TD-1242.0
- The bracket is not included in supplied package
- A shut-off valve is required for the raising and lowering version
- HD shock absorber 02.3722.04.00 acc. to table.
Recommended use: As specified in current BPW warranty documents.
- M = diaphragm cylinder / F = spring brake cylinder
- Use F-air cylinder bracket with spring-loaded accumulator cylinder
- The load rating of the tyre entered in the drawing is unrelated to the axle load capacity. It depends on the information from the tyre manufacturer.

Axle type	Track SP	Spring centre FM	Ground plate centre GM	Air bag centre BM	Brake-cyl. ⁵⁾	Tyres recommended ⁷⁾
				V=80		
NHZFSLU 9010	1830	980	243	820	M / (F) ⁶⁾	235/75 R 17.5 245/70 R 17.5
	1950	1100	247	940	M / F	
	1995	1100	292	940	M / F	
NHZFSLU 11010	1830	980	239	820	M / (F) ⁶⁾	235/75 R 17.5 245/70 R 17.5
	1950	1100	277	940	M / F	
	1995	1100	288	940	M / F	

max. inclination angle of the semitrailer under full load and lowest adjustable ride height ±1°

With trailing arm L1=500 / L2=380, bag pressures acc. to TE-1188.0 sheet 11

The hanger brackets, air bag supports and the frame must be reinforced so that the forces applied can be absorbed. See the current BPW installation instructions.

Series SLU

Long-stroke air-spring axles with drum brake SN 3620

Ride height 235-345 mm

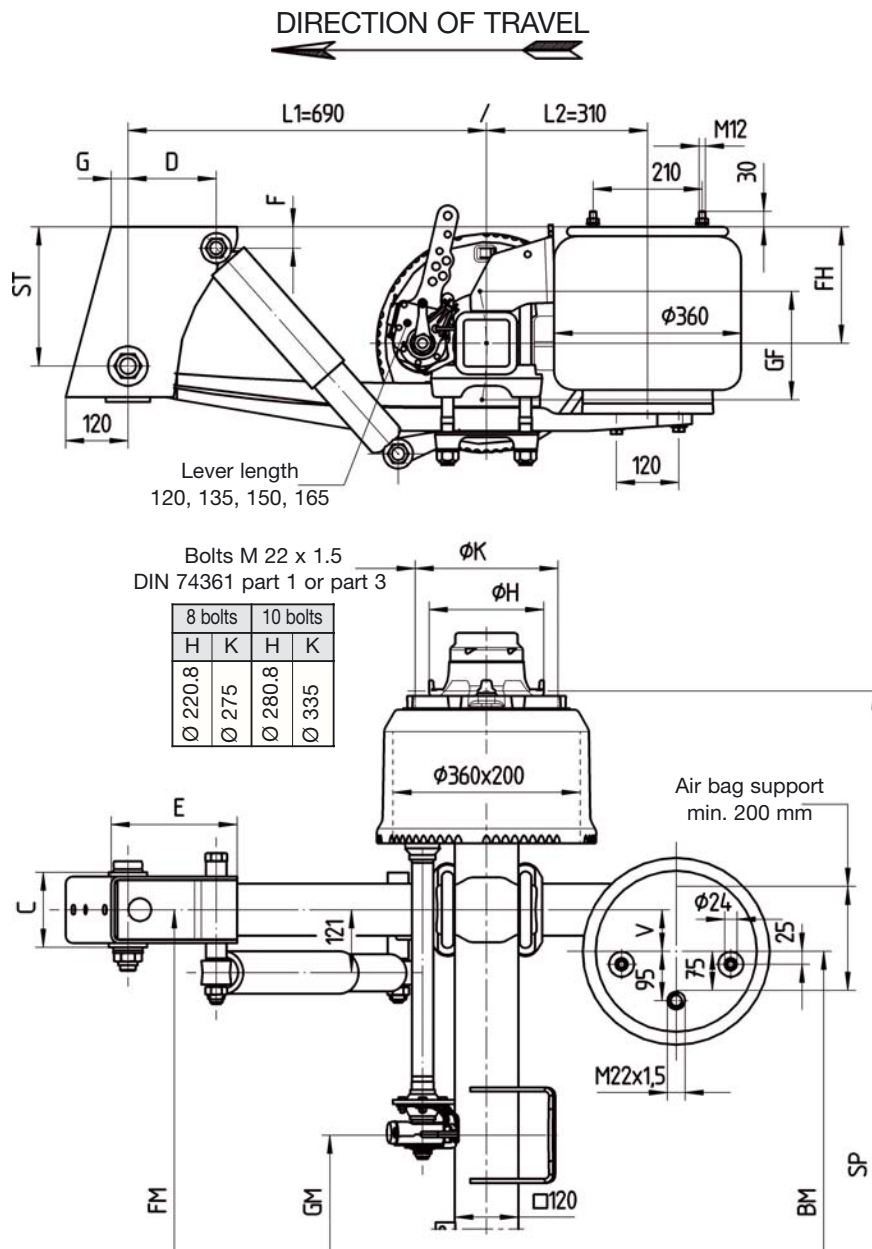
SL-SN.01

□ 120

Axle load 9000 kg

for trailer and semi-trailer

Sheet-no. 16d



Line	Series	≈ adjustabel ride height FH					Total spring travel GF ¹⁾	Air bag	Shock absorber 02.37...	Hanger bracket				Shock absorber mount		
		for single axles	for axle units	min. FH with axle raised	Empty without air	Loaded without air				ST	C	E	G	D	F	
2)	1	SLU	235-345	245-345	275	175	160	340	36-1	..02.20.00	268	125	242	32	170	41

- 1) Lifting heights acc. to TD-1242.0
- 2) A shut-off valve is required for the raising and lowering version
- 3) M = diaphragm cylinder / F = spring brake cylinder
- 4) Only suitable for semi-trailer
- 5) Use F-air cylinder bracket with spring-loaded accumulator cylinder

Axle type	Track SP	Spring centre FM	Ground plate centre GM	Air bag centre BM	Brake-cyl. ³⁾	Tyres recommended
				V=80		
KHSFSLU 9008	2005	1200	321	1040	M / F	385/65 R 19.5 445/45 R 19.5
	2075	1300	391	1140		
KHZFSLU 9008	1835 ⁴⁾	980	237	820	M / (F) ⁵⁾	265/70 R 19.5
	1935	1100	297	940		

In long-stroke air suspension systems, note ground clearance on delivery.

max. inclination angle of the semitrailer under full load and lowest adjustable ride height $\pm 1^\circ$

With trailing arm L1=690 / L2=310, bag pressures acc. to TE-1188.0 sheet 19

The hanger brackets, air bag supports and the frame must be reinforced so that the forces applied can be absorbed. See the current BPW installation instructions.

Series SLULL

HD-air spring axles with drum brake SN 3020

□ 120

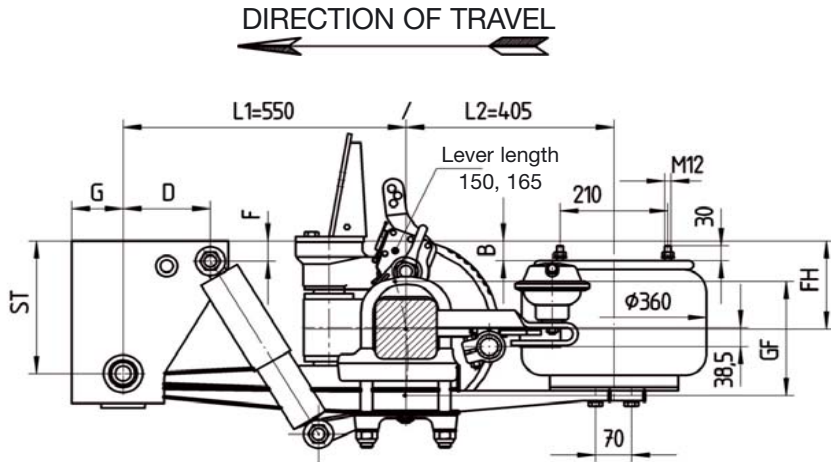
Axle load 9000-12000kg

Ride height 225-350 mm

for semi-trailer

SL-SN.01

Sheet-no. 16e

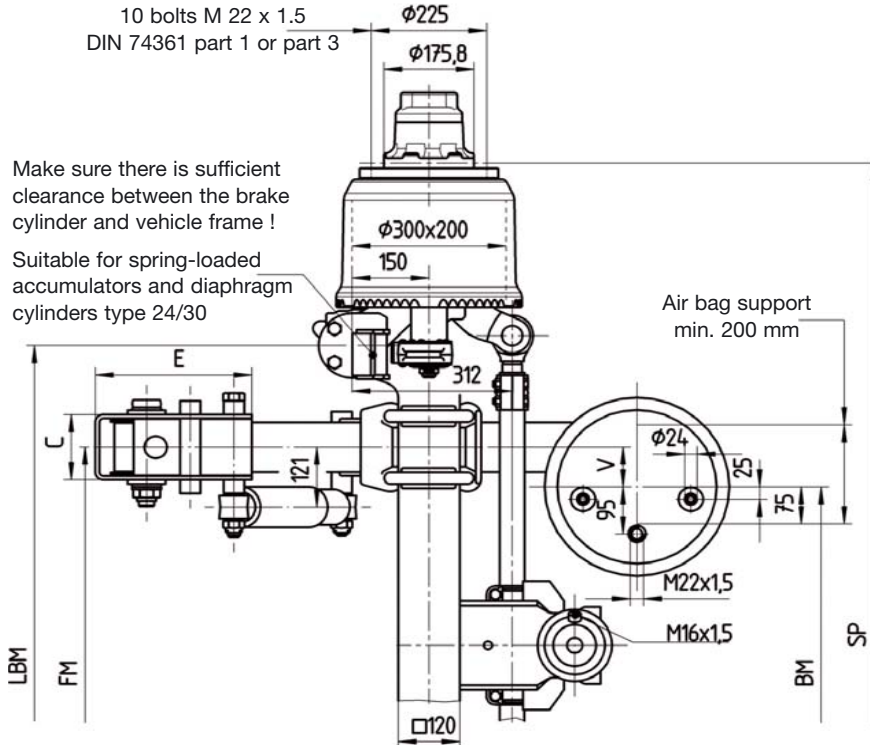


10 bolts M 22 x 1.5
DIN 74361 part 1 or part 3

Make sure there is sufficient clearance between the brake cylinder and vehicle frame !

Suitable for spring-loaded accumulators and diaphragm cylinders type 24/30

Air bag support min. 200 mm



Line	Series	~ adjustabel ride height FH				Total spring travel (GF ¹⁾)	Air bag	Shock absorber 02.37...	Hanger bracket				Shock absorber mount		Con-sole ²⁾ B
		for axle units	min. FH with axle raised	Empty without air	Loaded without air				ST	C	E	G	D	F	
1	SLULL	225-260	255	155	140	220	36	..22.88.00	268	130	305	100	170	41	--
3)	2	SLULL	245-280	275	175	160	36-1	..22.88.00	268	130	305	100	170	41	--
3	SLULL	265-325	295	195	180	220	36	..22.88.00	370	130	328	100	140	90	--
4	SLULL	300-350	330	230	215	220	36	..02.20.00	370	130	328	100	140	90	60

1) Lifting heights acc. to TD-1242.0

2) The bracket is not included in supplied package

3) A shut-off valve is required for the raising and lowering version

4) The load rating of the tyre entered in the drawing is unrelated to the axle load capacity. It is depend on the information from the tyre manufacturer.

Axle type	Track SP	Spring centre FM	Steering pivot centre LBM	Air bag centre BM	Steering angle LE	Tyres recommended ⁴⁾
NHZFSLULL 9010	1840	710	1105	620	15°	235/75 R 17.5 245/70 R 17.5
	1945	840	1210	680	20°	
	1985	840	1250	680	20°	
NMZFSLULL 12010	1840	710	1105	620	15°	235/75 R 17.5 245/70 R 17.5
	1945	840	1210	680	20°	
	1990	840	1255	680	20°	

max. inclination angle of the semitrailer under full load and lowest adjustable ride height $\pm 1^\circ$

With trailing arm L1=500 / L2=405, bag pressures acc. to TE-1188.0 sheet 22

The hanger brackets, air bag supports and the frame must be reinforced so that the forces applied can be absorbed. See the current BPW installation instructions.

With axle ratio - rigid axle to steering axle - of 1:1, when fitted with a lifting axle and when using central lubrication systems, the steering axles must be equipped with a steering damper.

Leaf spring		Steering tie rod position	Steering damper parts kit	Drawing
L1	L2			
550	405	312 / 38,5	05.872.00.51.0	04.00.073019

Series SLU

HD-Air spring axles with drum brake SN 3020

□ 120

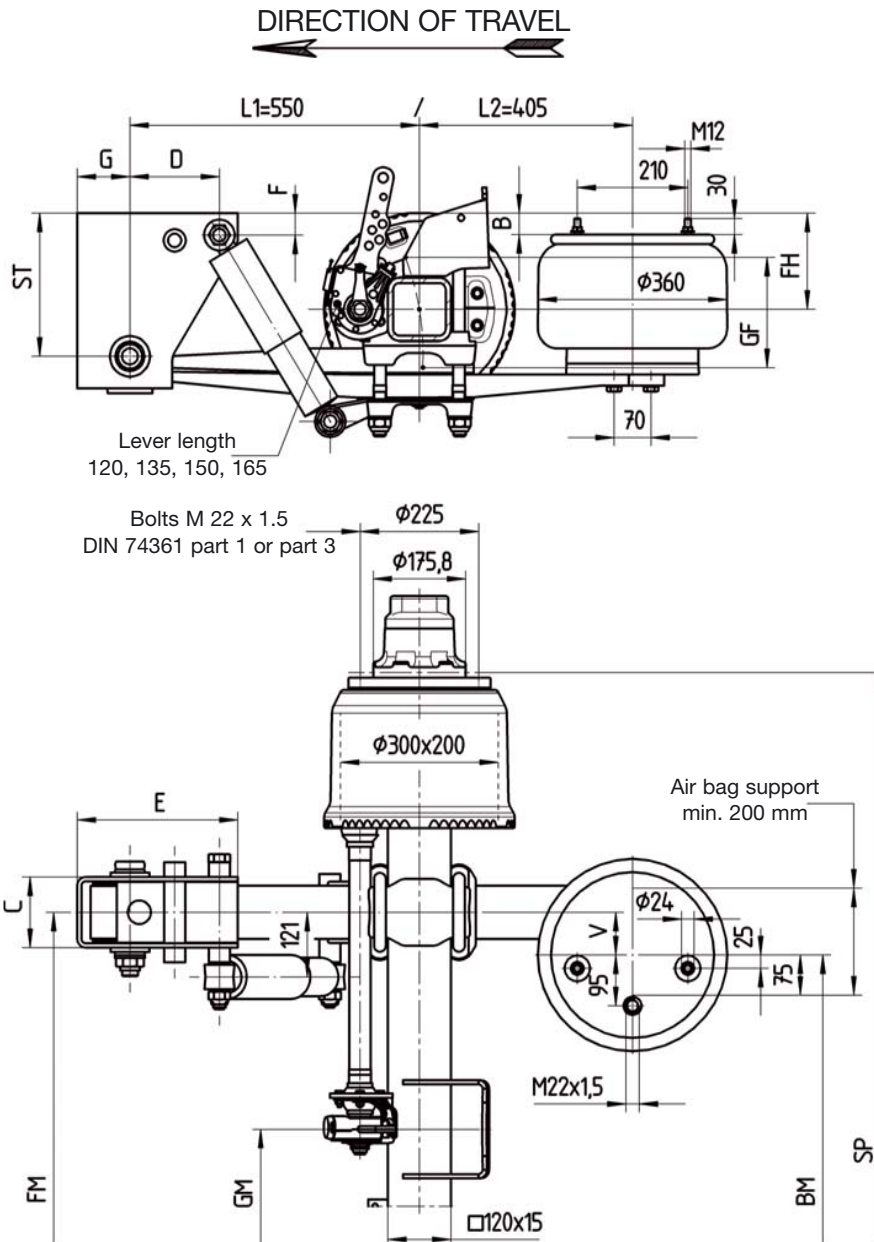
Axle load 9000-11000kg

Ride height 215-350 mm

for trailer and semi-trailer

SL-SN.01

Sheet-no. 16f



Line	Series	≈ adjustable ride height FH					Total spring travel (GF ¹⁾)	Air bag	Shock absorber 02.37...	Hanger bracket				Shock absorber mount		Con-sole ²⁾ B	
		for single axles	for axle units	min. FH with axle raised	Empty without air	Loaded without air				ST	C	E	G	D	F		
1	SLU	215-260	225-260	255	155	140	220	36	..22.88.00	268	130	305	100	170	41	--	
3)	2	SLU	235-280	245-280	275	175	160	260	36-1	..22.88.00	268	130	305	100	170	41	--
3	SLU	255-325	265-325	295	195	180	220	36	..22.88.00	370	130	328	100	140	90	--	
4	SLU	290-350	300-350	330	230	215	220	36	..02.20.00	370	130	328	100	140	90	60	

1) Lifting heights acc. to TD-1242.0

2) The bracket is not included in supplied package

3) A shut-off valve is required for the raising and lowering version

4) M = diaphragm cylinder / F = spring brake cylinder

5) Use F-air cylinder bracket with spring-loaded accumulator cylinder

6) The load rating of the tyre entered in the drawing is unrelated to the axle load capacity. It is depend on the information from the tyre manufacturer.

Axle type	Track SP	Spring centre FM	Ground plate centre GM	Air bag centre BM V=80	Brake-cyl. ⁴⁾	Tyres recommended ⁶⁾
NHZFSLU 9010	1830	980	243	820	M / (F) ⁵⁾	235/75 R 17.5 245/70 R 17.5
	1950	1100	247	940	M / F	
	1995	1100	292	940	M / F	
NHZFSLU 11010	1830	980	239	820	M / (F) ⁵⁾	235/75 R 17.5 245/70 R 17.5
	1950	1100	277	940	M / F	
	1995	1100	288	940	M / F	

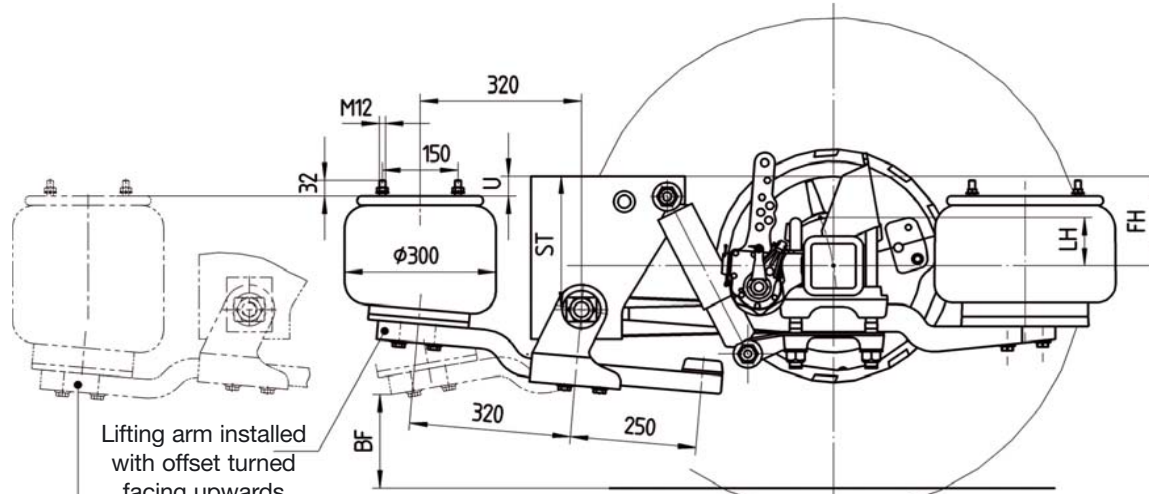
max. inclination angle of the semitrailer under full load and lowest adjustable ride height ±1°

With trailing arm L1=550 / L2=405, bag pressures acc. to TE-1188.0 sheet 22

The hanger brackets, air bag supports and the frame must be reinforced so that the forces applied can be absorbed. See the current BPW installation instructions.



DIRECTION OF TRAVEL



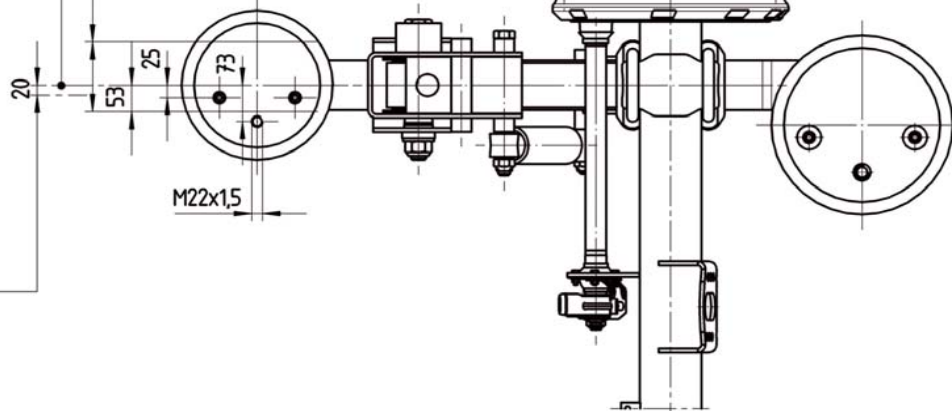
Lifting arm installed with offset turned facing upwards

Lifting arm installed with offset turned facing downwards

* Note the ground clearance ^{5a)} in relation to the tyre size !

Spring centre
Air bag support
min. 140 mm

Bag connection without bracket
U = 0
The top lift bag cover can be offset 20 mm to the side



Suspension to drawing SL-SN.01	» adjustable ride height FH		Lifting stroke LH	Hanger bracket ST	Ground clearance BF ⁵⁾	Con- sole U ³⁾
	for axle units	min. FH with axle raised				
Sheet 15 Sheet 15b Sheet 15c	200-240 ^{1) 5) 6)}	230	100	268	230	0
	225-260 ^{2) 5) 6)}	255	100	268	275	0
	245-280 ^{4) 5) 6)}	275	100	268	305	0
	265-325 ^{3) 5) 6) 8)}	295	100	370	180	100
Sheet 15a	300-350 ^{3) 5) 6)}	330	100	370	225	100
	220-260 ^{1) 5) 6)}	250	100	302	240	0
	250-290 ^{3) 5) 6) 8)}	280	100	370	170	100
	285-330 ^{3) 5) 6)}	315	100	370	230	100
Sheet 16 Sheet 16b Sheet 16c Sheet 16f	310-360 ^{3) 5) 6)}	340	100	370	270	60
	200-240 ^{2) 5) 6)}	230	100	268	292	0
	225-260 ^{4) 5) 6)}	255	100	268	340	0
	245-280 ^{2) 5) 7)}	275	100	268	275	0
Sheet 16a	265-325 ^{3) 5) 6)}	295	100	370	230	60
	300-350 ^{3) 5) 6)}	330	100	370	290	60
	220-260 ^{2) 5) 6)}	250	100	302	295	0
	250-290 ^{3) 5) 6)}	280	100	370	225	60
Sheet 16a	285-330 ^{1) 5) 6)}	315	100	370	285	0
	310-360 ^{1) 5) 6)}	340	100	370	330	0

- 1) A 40 mm tall bracket is possible as an alternative, bracket is not supplied.
- 2) A 40 mm tall bracket is possible as an alternative, by use a 40 mm tall bracket the part group with short spring bell housing (135 mm) is required.
- 3) The bracket is not included in supplied package
- 4) Parts group with short spring bell housing (135 mm)
- 5) Ground clearance in relation to the set minimum ride height with the axle raised.
- 5a) Tyre: 385/65 R 22.5 ($r_{stat} = 496$)
In the case of smaller tyres, it is necessary to check whether the one-sided lift can be used, according to the application.
- 6) Lifting arm installed with offset turned facing upwards.
- 7) Lifting arm installed with offset turned facing downwards.
- 8) Due to the lower ground clearance, it is necessary to check whether the one-sided axle lift can be used, according to the application.

The air pressure for the lift bag must be limited to 5 bar with a reduction valve.

The hanger brackets, air bag supports and the frame must be strengthened so that they can absorb the forces applied. See the current BPW installation instructions.