



Series	Image	Air suspension axles and suspensions	Axle load	Air Bag		Axle type with disc brake		Ride height FH (mm)	to drawing		
				30/30K	36/36K/36-1	TS2 3709	TS2 4309		TS2 3709	TS2 4309	
ALO		Air suspension axles	9t	x	-	SKHSF...	SHSF...	390-565	Sheet 1	Sheet 1a	
			9t	-	x	SKHBF...	SHBF...		Sheet 2	Sheet 2a	
			10t	-	x	SKHZF...	SHZF...		Sheet 2b	Sheet 2c	
		Steering axles LL with 3D-trailing arm (sidewise cranked)	9t	x	-	SKHBFH...LL	SHBFH...LL	430-565	Sheet 3	Sheet 3a	
			9t / 10t	-	x	SKHSFH...LL	SHSFH...LL		Sheet 4	Sheet 4a	
		Steering axles LL with trailing arm	9t	x	-	SKHBFH...LL	SHBFH...LL	430-565	Sheet 5	Sheet 5a	
			9t / 10t	-	x	SKHSFH...LL	SHSFH...LL		Sheet 6	Sheet 6a	
Two-sided lifting device	9t / 10t							Sheet 7a			
ALM / ALMT		Air suspension axles	9t	x	-	SKHBF...	SHBF...	245 - 420	Sheet 8	Sheet 8a	
			9t	-	x	SKHSF...	SHSF...		Sheet 9	Sheet 9a	
			10t	-	x	SKHZF...	SHZF...		Sheet 9b	Sheet 9c	
		Steering axles LL with 3D-trailing arm (sidewise cranked)	9t	x	-	SKHBFH...LL	SHBFH...LL	255 - 420	Sheet 10	Sheet 10a	
			9t / 10t	-	x	SKHSFH...LL	SHSFH...LL	350 - 420	Sheet 11	Sheet 11a	
		Steering axles LL with trailing arm	9t	x	-	SKHBFH...LL	SHBFH...LL	350 - 420	Sheet 12	Sheet 12a	
			9t / 10t	-	x	SKHSFH...LL	SHSFH...LL		Sheet 13	Sheet 13a	
Two-sided lifting device	9t / 10t							Sheet 14a			
ALU		Air suspension axles	9t	x	-	SKHSF...	SHSF...	205 - 300 (TS2 3709)	Sheet 15	Sheet 15a	
			9t	-	x	SKHBF...	SHBF...		Sheet 16	Sheet 16a	
			10t	-	x	SKHZF...	SHZF...	235 - 300 (TS2 4309)	Sheet 16b	Sheet 16c	
		Air suspension axles (air bag with long stroke)	9t	-	36-1	SKHBF...	SHBF...	215 - 350	Sheet 16d	Sheet 16e	
			9t	-	36-1	SKHBF...	SHBF...		230 - 345	Sheet 16f	Sheet 16g
			10t	-		SKHSF...	---				
		Steering axles LL with trailing arm	9t	x	-	SKHBFH...LL	SHBFH...LL	215 - 300 (TS2 3709)	Sheet 17	Sheet 17a	
								245 - 300 (TS2 4309)			
One-sided lifting device	9t / 10t							Sheet 19			
Two-sided lifting device	9t / 10t							Sheet 19a			





Weight variations are within the permitted DIN tolerances for the production process, given in kg.

Series	Suspensions to drawing	Line	Weight variations are within the permitted DIN tolerances for the production process, given in kg.																					
			Weight of air suspension parts	Weight of clamped axle mounting	Weight of welded axle mounting	FM 900	FM 950	FM 980			FM 1100			FM 1200			FM 1300			FM 1400				
ALO	Sheet 1	1	93	30	282.5 (120 x 15)	272.5 (120 x 15)	283.5	283.5 (120 x 15)	273.5 (120 x 15)	284.5 (120 x 15)	274.5 (120 x 15)	288.5 (120 x 15)												
		2	97																					
		3	100																					
		4	111																					
	Sheet 2	1	101	30	282.5 (120 x 15)	272.5 (120 x 15)	283.5	283.5 (120 x 15)	273.5 (120 x 15)	284.5 (120 x 15)	274.5 (120 x 15)	288.5 (120 x 15)												
		2	106																					
		3	108																					
		4	119																					
	Sheet 2b	1	103	31 <sup>2)</sup>	41	283.5 (120 x 15)	286.5 (120 x 15)	283.5 (120 x 15)	273.5 (120 x 15)	284.5 (120 x 15)	274.5 (120 x 15)	288.5 (120 x 15)												
		2	108																					
		3	111																					
		4	122																					
ALM / ALMT	Sheet 8	1	97	30	282.5 (120 x 15)	272.5 (120 x 15)	283.5 (120 x 15)	283.5 (120 x 15)	273.5 (120 x 15)	284.5 (120 x 15)	274.5 (120 x 15)	288.5 (120 x 15)												
		2	99																					
		3	102																					
		4	98																					
		5	104																					
		6	103																					
		7	105																					
	Sheet 9	1	105	30	282.5 (120 x 15)	272.5 (120 x 15)	283.5 (120 x 15)	283.5 (120 x 15)	273.5 (120 x 15)	284.5 (120 x 15)	274.5 (120 x 15)	288.5 (120 x 15)												
		2	108																					
		3	111																					
		4	106																					
		5	113																					
		6	111																					
		7	113																					
Sheet 9b	1	109	30 <sup>2) 3)</sup>	41	283.5 (120 x 15)	286.5 (120 x 15)	283.5 (120 x 15)	273.5 (120 x 15)	284.5 (120 x 15)	274.5 (120 x 15)	288.5 (120 x 15)													
	2	112																						
	3	114																						
	4	112																						
	5	117																						
	6	116																						
	7	119																						

**Note on weight specifications**

- Trailing arm length L2 bei ALO/ALU = 310 mm
- Trailing arm length L2 bei ALM/ALMT = 380 mm
- With respect to the strength of the trailing arm, the centre-of-mass heights stipulated on AL II pages VI and VIa must be observed
- With air bag BPW 30 / 30K offset V = 20 mm
- With offset V = 60 mm look at additional weight

**Additional weight per axle**

- <sup>1)</sup> Axle type SKHBF... 9010 (axle with B-hub) = 4.5 kg
- Bolt-on bracket = 8 kg
- Dust cover = 2,2 kg
- Air bag BPW 30 with offset V = 60 = 4,2 kg
- Air bag BPW 30K with offset V = 60 = 3,7 kg
- Axle beam from 120 x 10 to 120 x 15 = 0.0115 kg x track (SP)
- Axle beam from 120 x 15 to 150 x 17 = 0.008 kg x track (SP)

Series	Trailing arm			Additional weight per axle
	L1	L2	Thickness	
ALO / ALU	500	380	1 x 56	4 kg
			1 x 62	9.4 kg
		380 + 405	1 x 65	17.4 kg
			1 x 62	2.4 kg
ALM	380	1 x 65	12 kg	
		1 x 62	5.6 kg	
ALMT	380	1 x 65	13.2 kg	
		380	1 x 62	3.9 kg

<sup>2)</sup> for clamped axle mounting and 10t axle load, min. FM 1100

<sup>3)</sup> ALMT version with clamped axle mounting only





Weight variations are within the permitted DIN tolerances for the production process, given in kg.

Series	Suspensions to drawing	Line	Weight of air suspension parts	Weight of clamped axle mounting	Weight of welded axle mounting	FM 980		FM 1080 (1005, 1050)						
						SP 2040	SP 2045	SP 2040	SP 2045	SP 2095	SP 2100	SP 2140	SP 2145	
ALOLL	Sheet 3	2	116			431.5 <sup>1)</sup> (120 x 15)	421.5 (120 x 15)	431.5 <sup>1)</sup> (120 x 15)	421.5 (120 x 15)	433.5 <sup>1)</sup> (120 x 15)	423.5 (120 x 15)	436.5 <sup>1)</sup> (120 x 15)	426.5 (120 x 15)	
		3	119	31										
		4	130											
	Sheet 4	2	120											
		3	123	31	43									
		4	134											
	Sheet 5	2	110											
		3	113	31										
		4	124											
	Sheet 6	2	115											
		3	118	31	42									
		4	129											
ALMLL / ALMTLL	Sheet 10	1	109											
		2	112											
		5	114	31										
		6	118											
	Sheet 11	6	123	31	43									
		7	126											
	Sheet 12	6	112	31										
		7	115											
	Sheet 13	6	116	31	42									
		7	119											
	ALULL	Sheet 17	1	110			445.5 (120 x 15)				447.5 (120 x 15) FM 1005		450.5 (120 x 15) FM 1050	
			2	113	42									
3			113											

**Note on weight specifications**

- > Trailing arm at ALO/ALU 1 x 62, L2 = 380 mm
- > Trailing arm at ALM/ALMT (sidewise cranked) 1 x 62, L2 = 380 mm
- > 3D-trailing arm at ALO/ALM (sidewise cranked) 1 x 65, L2 = 380
- > 3D-trailing arm at ALMT 1 x 62, L2 = 380
- > With respect to the strength of the trailing arm, the centre-of-mass heights stipulated on AL II pages VI and VIa must be observed

**Additional weight per axle**

- > <sup>1)</sup> Axle type SKHBFHLL... 9010 (axle with B-hub) = 4.5 kg
- > Bolt-on bracket = 8 kg
- > Steering damper parts kit = 2 kg
- > Axle beam from 120 x 15 to 150 x 17 = 0.008 kg x track (SP)

Series	Trailing arm			Additional weight per axle
	L1	L2	Thickness	
ALO / ALU	500	380 + 405	1 x 65	8 kg
ALM		380	1 x 65	7.6 kg

**Determining the total weight**

Air suspension parts
+ Axle mounting
+ Axle
+ Additional weight
= <b>Total weight</b>

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Weight variations are within the permitted DIN tolerances for the production process, given in kg.

Series	Suspensions to drawing	Line	Weight of air suspension parts	Weight of clamped axle mounting	Weight of welded axle mounting	FM 900		FM 980		FM 1100	FM 1200			FM 1300		FM 1400
						SP 1820	SP 1880	SP 1920	SP 2040	SP 2010	SP 2040	SP 2095	SP 2040	SP 2095	SP 2140	
ALO	Sheet 1a	1	93	31			292.5 (120 x 15)	294.5 (120 x 15)	296.5 (120 x 15)			279.5 <sup>1)</sup> (120 x 10)	279.5 <sup>1)</sup> (120 x 10)	281.5 <sup>1)</sup> (120 x 10)	283.5 <sup>1)</sup> (120 x 10)	
		2	97													
		3	100													
		4	111													
	Sheet 2a	1	101	31			292.5 (120 x 15)	294.5 (120 x 15)	296.5 (120 x 15)			279.5 <sup>1)</sup> (120 x 10)	279.5 <sup>1)</sup> (120 x 10)	281.5 <sup>1)</sup> (120 x 10)	283.5 <sup>1)</sup> (120 x 10)	
		2	106													
		3	108													
		4	119													
	Sheet 2c	1	103	31 <sup>2)</sup>	41		302.5 (120 x 15)	305.5 (120 x 15)				313.5 (120 x 15)	313.5 (120 x 15)	316.5 (120 x 15)		
		2	108													
		3	111													
		4	122													
ALM / ALMT	Sheet 8a	1	97	31			292.5 (120 x 15)	294.5 (120 x 15)	296.5 (120 x 15)			279.5 <sup>1)</sup> (120 x 10)	279.5 <sup>1)</sup> (120 x 10)	281.5 <sup>1)</sup> (120 x 10)	283.5 <sup>1)</sup> (120 x 10)	
		2	99													
		3	102													
		4	98													
		5	104													
		6	103													
		7	105													
	Sheet 9a	1	105	31			292.5 (120 x 15)	294.5 (120 x 15)	296.5 (120 x 15)			279.5 <sup>1)</sup> (120 x 10)	279.5 <sup>1)</sup> (120 x 10)	281.5 <sup>1)</sup> (120 x 10)	283.5 <sup>1)</sup> (120 x 10)	
		2	108													
		3	111													
		4	106													
		5	113													
		6	111													
		7	113													
	Sheet 9c	1	109	31 <sup>2) 3)</sup>	42		302.5 (120 x 15)	305.5 (120 x 15)				313.5 (120 x 15)	313.5 (120 x 15)	316.5 (120 x 15)		
		2	112													
		3	114													
		4	112													
		5	117													
6	116															

<sup>2)</sup> for clamped axle mounting and 10 t axle load, min. FM 1100

<sup>3)</sup> ALMT version with clamped axle mounting only

**Note on weight specifications**

- > Trailing arm length L2 bei ALO/ALU = 310 mm
- > Trailing arm length L2 bei ALM/ALMT = 380 mm
- > With respect to the strength of the trailing arm, the centre-of-mass heights stipulated on AL II pages VI and VIa must be observed
- > With air bag BPW 30 / 30K offset V = 20 mm
- > With offset V = 60 mm look at additional weight

**Additional weight per axle**

- > <sup>1)</sup> Axle type SHBF... 9010 (axle with B-hub) = 4.5 kg
- > Bolt-on bracket = 8 kg
- > Dust cover = 2.2 kg
- > Air bag BPW 30 with offset V = 60 = 4.2 kg
- > Air bag BPW 30K with offset V = 60 = 3.7 kg
- > Axle beam from 120 x 10 to 120 x 15 = 0.0115 kg x track (SP)
- > Axle beam from 120 x 15 to 150 x 17 = 0.008 kg x track (SP)

Series	Trailing arm			Additional weight per axle
	L1	L2	thickness	
ALO / ALU	500	380	1 x 56	4 kg
			1 x 62	9.4 kg
		380 + 405	1 x 65	17.4 kg
			1 x 62	2.4 kg
ALM	380	1 x 65	12 kg	
		1 x 62	5.6 kg	
ALMT	380	1 x 65	13.2 kg	
		380	1 x 62	3.9 kg

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Weight variations are within the permitted DIN tolerances for the production process, given in kg.

Series	Suspensions to drawing	Line	Weight of air suspension parts	Weight of clamped axle mounting	Weight of welded axle mounting	FM 900		FM 980		FM 1100	FM 1200			FM 1300		FM 1400
						SP 1820	SP 1880	SP 1920	SP 2040	SP 2010	SP 2040	SP 2095	SP 2040	SP 2095	SP 2140	
ALU	Sheet 15a	2	100	43		292.5	294.5	296.5	305.5		280.5 <sup>1)</sup>		288.5 <sup>1)</sup>	290.5 <sup>1)</sup>	292.5 <sup>1)</sup>	
		3	100			(120 x 15)	(120 x 15)	(120 x 15)	(120 x 15)		(120 x 10)	(120 x 10)	(120 x 10)			
	Sheet 16a	2	108	43		292.5	294.5	296.5	305.5		280.5 <sup>1)</sup>		288.5 <sup>1)</sup>	290.5 <sup>1)</sup>	292.5 <sup>1)</sup>	
		3	108			(120 x 15)	(120 x 15)	(120 x 15)	(120 x 15)		(120 x 10)	(120 x 10)	(120 x 10)			
	Sheet 16c	2	111	43 <sup>2)</sup>	51	302.5	305.5				313.5	316.5				
		3	111			(120 x 15)	(120 x 15)				(120 x 15)	(120 x 15)				
Sheet 16e	1	140	43						287.5 <sup>1)</sup>	288.5 <sup>1)</sup>		288.5 <sup>1)</sup>				
Sheet 16g	1	175		48						280.5 <sup>1)</sup>		288.5 <sup>1)</sup>				
Lift	Sheet 7a, 14a, 19a					Two-sided lifting device Version with hanger bracket (9t)					34 kg					
						Two-sided lifting device Version with hanger bracket (12t)					36 kg					
						Two-sided lifting device Version with channel cross member (9t)					33 kg					
	Sheet 19					One-sided lifting device					29 kg					

#### Determining the total weight

Air suspension parts
+ Axle mounting
+ Axle
+ Additional weight
= Total weight

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Subject to change without notice.



Weight variations are within the permitted DIN tolerances for the production process, given in kg.

Series	Suspensions to drawing	Line	Weight variations are within the permitted DIN tolerances for the production process, given in kg.			FM 1080																																
			Weight of air suspension parts	Weight of clamped axle mounting	Weight of welded axle mounting	FM 980		FM 1080																														
						SP 2040 (9 t)	SP 2040 (9 t)	SP 2040 (10 t)	SP 2095 (9 t)	SP 2095 (10 t)	SP 2140 (9 t)																											
ALOLL	Sheet 3a	2	116			444.5 <sup>1)</sup> (120 x 15)	444.5 <sup>1)</sup> (120 x 15)		446.5 <sup>1)</sup> (120 x 15)		449.5 <sup>1)</sup> (120 x 15)																											
		3	119	31																																		
		4	130																																			
	Sheet 4a	2	120									444.5 <sup>1)</sup> (120 x 15)	444.5 <sup>1)</sup> (120 x 15)		446.5 <sup>1)</sup> (120 x 15)	460.5 (120 x 15)	460.5 (120 x 15)	449.5 <sup>1)</sup> (120 x 15)																				
		3	123	31	43																																	
		4	134																																			
	Sheet 5a	2	110																444.5 <sup>1)</sup> (120 x 15)	444.5 <sup>1)</sup> (120 x 15)		446.5 <sup>1)</sup> (120 x 15)		449.5 <sup>1)</sup> (120 x 15)														
		3	113	31																																		
		4	124																																			
	Sheet 6a	2	115																						444.5 <sup>1)</sup> (120 x 15)	444.5 <sup>1)</sup> (120 x 15)		446.5 <sup>1)</sup> (120 x 15)	460.5 (120 x 15)	462.5 (120 x 15)	449.5 <sup>1)</sup> (120 x 15)							
		3	118	31	42																																	
		4	129																																			
ALMLL / ALMTL	Sheet 10a	1	109			444.5 <sup>1)</sup> (120 x 15)	444.5 <sup>1)</sup> (120 x 15)		446.5 <sup>1)</sup> (120 x 15)		449.5 <sup>1)</sup> (120 x 15)																											
		2	112																																			
		5	114	31																																		
		6	118																																			
	Sheet 11a	6	123	31	43							444.5 <sup>1)</sup> (120 x 15)	444.5 <sup>1)</sup> (120 x 15)		446.5 <sup>1)</sup> (120 x 15)	460.5 (120 x 15)	462.5 (120 x 15)	449.5 <sup>1)</sup> (120 x 15)																				
		7	126																																			
	Sheet 12a	6	112	31															444.5 <sup>1)</sup> (120 x 15)	444.5 <sup>1)</sup> (120 x 15)		446.5 <sup>1)</sup> (120 x 15)		449.5 <sup>1)</sup> (120 x 15)														
		7	115																																			
	Sheet 13a	6	116	31	42																											444.5 <sup>1)</sup> (120 x 15)	444.5 <sup>1)</sup> (120 x 15)		446.5 <sup>1)</sup> (120 x 15)	460.5 (120 x 15)	462.5 (120 x 15)	449.5 <sup>1)</sup> (120 x 15)
		7	119																																			
	ALULL	Sheet 17a	1	110																						457.5 (120 x 15)			460.5 (120 x 15)		462.5 (120 x 15)							
			2	113	42																																	
3			113																																			

**Note on weight specifications**

- > Trailing arm at ALO/ALU 1 x 62, L2 = 380 mm
- > Trailing arm at ALM/ALMT 1 x 62, L2 = 380 mm
- > Trailing arm at ALO/ALM 3D (sidewise cranked) 1 x 65, L2 = 380
- > Trailing arm at ALMT 3D (sidewise cranked) 1 x 62, L2 = 380
- > With respect to the strength of the trailing arm, the centre-of-mass heights stipulated on AL II pages VI and VIa must be observed

**Additional weight per axle**

- > <sup>1)</sup> Axle type SHBFHLL... 9010 (axle with B-Hub) = 4.5 kg
- > Bolt-on bracket = 8 kg
- > Steering damper parts kit = 2 kg
- > Axle beam from 120 x 15 to 150 x 17 = 0.008 kg x track (SP)

Series	Trailing arm			Additional weight per axle
	L1	L2	thickness	
ALO / ALU	500	380 + 405	1 x 65	8 kg
ALM		380	1 x 65	7.6 kg

**Determining the total weight**

Air suspension parts
+ Axle mounting
+ Axle
+ Additional weight
= Total weight

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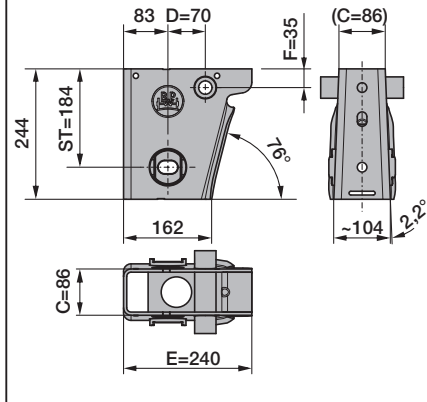




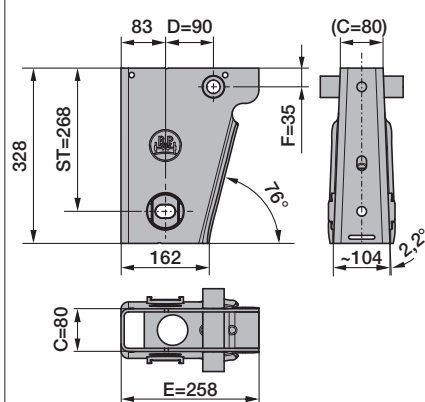
**Standard brackets AL II  
for single leaf trailing arms**

Spring bolt assembly: 05.857.00.28.0

05.375.44.23.0



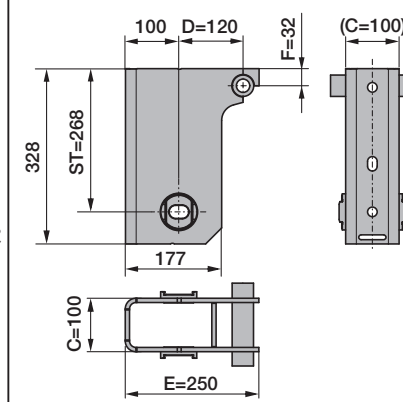
05.375.44.22.0



**Standard brackets AL II  
for single leaf trailing arms and double leaf trailing arms**

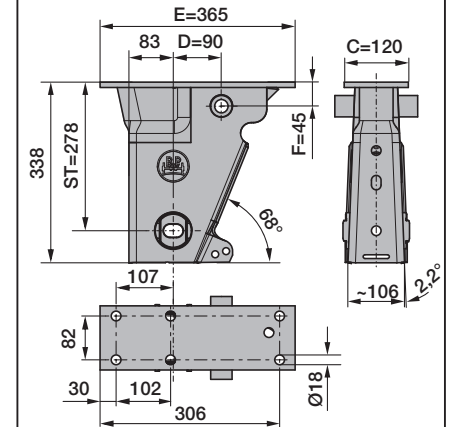
Spring bolt assembly: 05.857.00.29.0

05.375.44.63.0

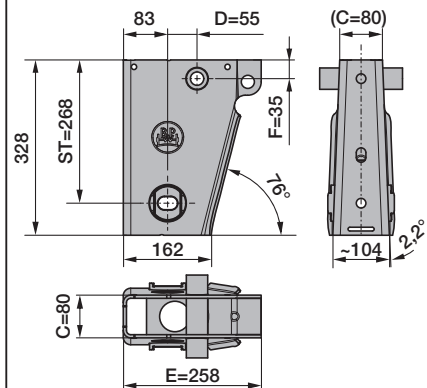


**Bolt-on bracket AL II  
for single leaf trailing arms  
(max. 9 t)**

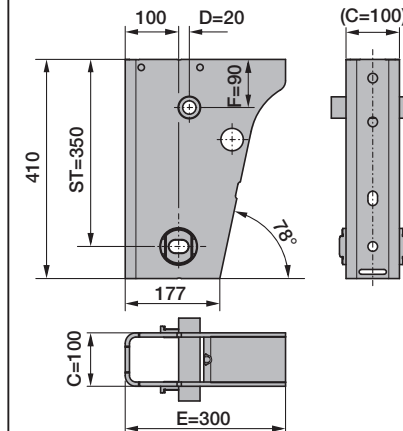
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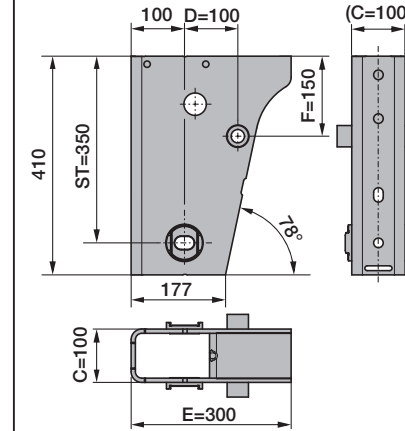
05.375.44.60.0



05.375.44.68.0



05.375.44.69.0



**Note:**

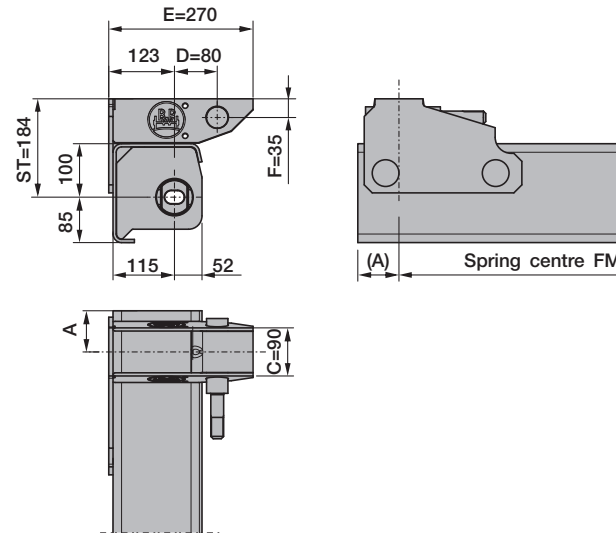
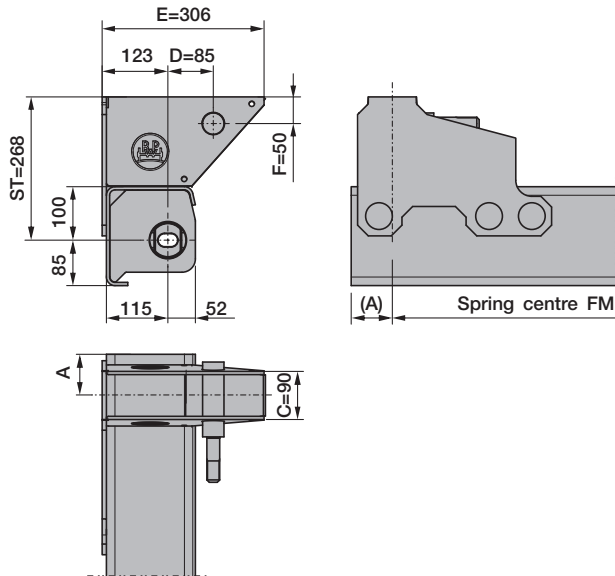
> Lifting device for bolt-on bracket on demand.

**Note:**

The hanger brackets and the frame must be reinforced so that the forces applied can be absorbed (see the current BPW installation instructions).



Spring bolt assembly: 05.857.00.29.0



For spring centre FM					
	980	1100	1200	1300	1400
Measure A	77	87	77	77	77

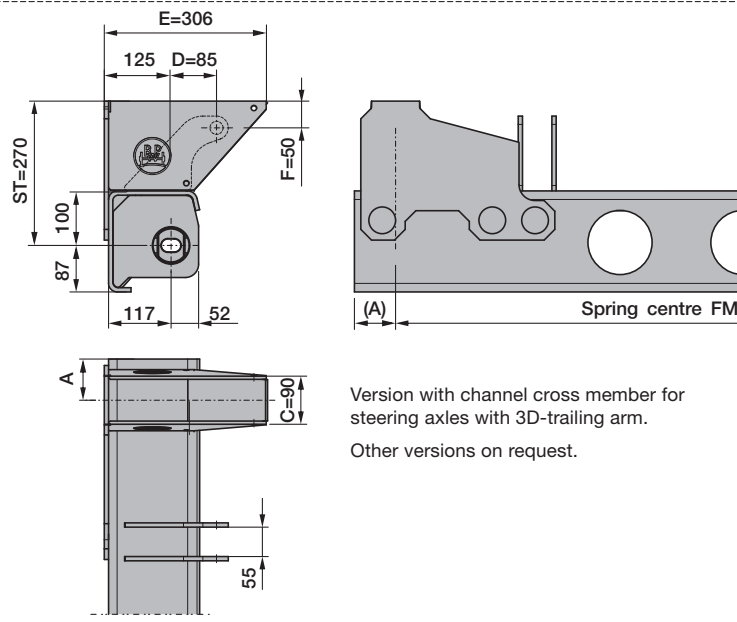
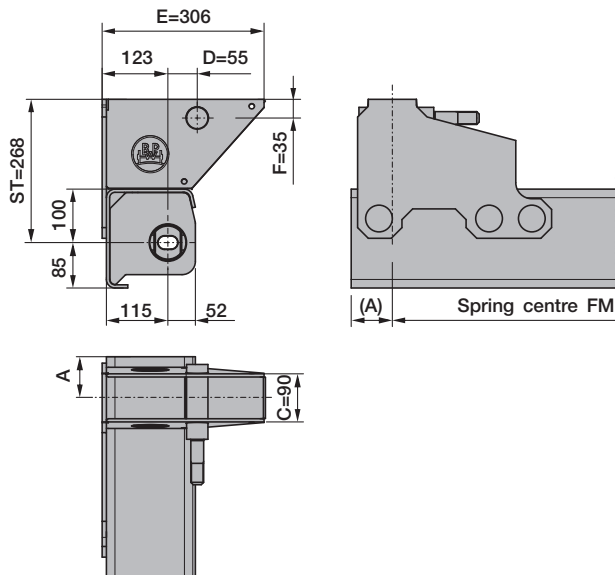
**Note:**

The frame must be reinforced so that the forces applied can be absorbed.

See the current BPW installation instructions.

**For example:**

Air spring axle with channel cross member  
SKHSFALO C V30 -> version with channel cross member



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Series	to drawing AL II - TS2.0	Trailing arm				Axle load kg	Height of centre of gravity max.								
		05.082..	Thickness	L1	L2		Spring centre FM								
							900	950	980	1080	1100	1200	1300	1400	
ALO	Sheet 1 Sheet 1a Sheet 2 Sheet 2a	..13.90.2	1 x 56	500	310	8000	---	---	---	---	---	2800	3000	3200	
						9000	---	---	---	---	---	2500	2700	2850	
		..13.89.2			380	8000	---	---	---	---	2800	3000	3200		
						9000	---	---	---	---	2500	2700	2850		
		..14.02.2	1 x 62		310	8000	2750	---	2950	---	---	---	---	---	
						9000	2450	---	2650	---	---	---	---		
		..13.96.2			380	8000	2750	---	2950	---	---	---	---	---	
						9000	2450	---	2650	---	---	---	---		
	Sheet 2b Sheet 2c	..14.02.2	1 x 62	500	310	10000	---	---	---	---	2600	2800	3000	---	
							..13.96.2	380	---	---	---	---	2600	2800	3000
		..14.34.2	1 x 65		310		2350		---	2550	---	2800	---	---	
					380/405		2350	---	2550	---	2800	---	---		
	Sheet 3, 3a Sheet 4, 4a Sheet 4a	..14.45.2	1 x 65	500	380/405		8000	---	---	3200	3450	---	---	---	---
							..14.46.2	9000	---	---	2900	3150	---	---	---
10000		---					---	---	2850	---	---	---			
Sheet 5, 5a Sheet 6, 6a	..13.96.2	1 x 62	500	380	8000		---	---	2950	3150	---	---	---	---	
					9000	---	---	2650	2850	---	---	---			
Sheet 6a	..14.43.2	1 x 65	500	380/405	10000	---	---	---	2750	---	---	---	---		
ALM / ALMT	Sheet 8 Sheet 8a Sheet 9 Sheet 9a	..13.88.2 <sup>1)</sup> ..14.09.2 <sup>2)</sup>	1 x 56	500	380	8000	---	---	---	---	---	2800	3000	3200	
						9000	---	---	---	---	---	2500	2700	2850	
		..13.95.2 <sup>1)</sup> ..14.12.2 <sup>2)</sup>	1 x 62			8000	2750	---	2950	---	---	---	---		
						9000	2450	---	2650	---	---	---	---		
	Sheet 9b Sheet 9c	..13.95.2 <sup>1)</sup> ..14.12.2 <sup>2)</sup>	1 x 62	500	380	10000	---	---	---	---	2600	2800	3000	---	
							---	---	---	---	2600	2800	3000	---	
		..14.44.2 <sup>1)</sup>	1 x 65				380/405	2350	---	2550	---	2800	---	---	
	Sheet 10 Sheet 10a Sheet 11 Sheet 11a	..14.47.2/48.2 <sup>1)</sup>	1 x 65	500	380/405	8000	---	---	3200	3450	---	---	---	---	
						9000	---	---	2900	3150	---	---	---		
		..14.13.2/14.2 <sup>2)</sup>	1 x 62		380	8000	---	---	2950	3150	---	---	---		
						9000	---	---	2650	2850	---	---	---		
	Sheet 11a	..14.47.2/48.2 <sup>1)</sup>	1 x 65	500	380/405	10000	---	---	---	2850	---	---	---		
	Sheet 12, 12a Sheet 13, 13a	..13.95.2 <sup>1)</sup>	1 x 62	500	380	8000	---	---	2950	3150	---	---	---	---	
						9000	---	---	2650	2850	---	---	---		
Sheet 13a	..14.44.2 <sup>1)</sup>	1 x 65	500	380/405	10000	---	---	---	2750	---	---	---			

<sup>1)</sup> Series ALM

<sup>2)</sup> Series ALMT



Series	to drawing AL II - TS2.0	Trailing arm				Axle load kg	Height of centre of gravity max.										
		05.082..	Thickness	L1	L2		Spring centre FM										
							900	950	980	1080	1100	1200	1300	1400			
ALU	Sheet 15 Sheet 15a Sheet 16 Sheet 16a	..13.90.2	1 x 56	500	310	8000	---	---	---	---	2300	2500	2650	2850			
						9000	---	---	---	---	2050	2200	2350	2550			
		..13.89.2	1 x 56	500	380	8000	---	---	---	---	2300	2500	2650	2850			
						9000	---	---	---	---	2050	2200	2350	2550			
		..13.96.2	1 x 62	500	380	8000	2400	---	2650	---	---	---	---	---	---		
						9000	2100	---	2250	---	2500	2700	2900	3100			
					..14.02.2	1 x 62	500	310	8000	2400	---	2650	---	---	---	---	---
									9000	2100	---	2250	---	2500	2700	2900	3100
	Sheet 16b Sheet 16c	..14.02.2	1 x 62	500	310	10000	---	---	---	---	2200	2400	---	---			
							..13.96.2	1 x 65	380	---	---	---	---	2200	2400	---	---
		..14.34.2	380/405	310	2050		---			2200	---	2450	2700	---	---		
		..14.43.2		2050	---		2200	---	2450	2700	---	---					
	Sheet 16d Sheet 16e	..14.39.2	1 x 62	620	365	8000	---	1950	---	---	---	2450	2600	---			
						9000	---	1750	---	---	---	2200	2350	---			
	Sheet 16f Sheet 16g	..14.41.2	2 x 56	690	310/335	8000	---	---	---	---	2900	3400	3850	---			
						9000	---	---	---	---	2650	3100	3550	---			
	Sheet 16f					10000	---	---	2000	---	2400	---	---	---			
	Sheet 17a	..13.96.2	1 x 62	500	380	8000	---	---	2650	2850	---	---	---	---			
						9000	---	---	2250	2450	---	---	---	---			

Series	to drawing AL II - TS2.0	Trailing arm				Axle load kg	Height of centre of gravity max.							
		05.082..	Thickness	L1	L2		Spring centre FM							
							980	1005	1050					
ALU	Sheet 17	..13.96.2	1 x 62	500	380	8000	---	---	2650	2675	2800	---	---	---
						9000	---	---	2250	2275	2400	---	---	---

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  
Number of axles = Height of centre of gravity

Example  $\frac{2500 + 2500 + 2200}{3} = 2400$

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.



Advice	Conditions	Axle load	Air suspension series	Tyre S = Single tyres Z = Twin tyres	Spring centre	Trailing arm 70 mm 100 mm		Shock absorber	Air bag	Axle beam	Axle connection	Comments
1	On-Road use	9 t	EAC	S	≥ 1200	Guide link		Standard	Ø 300 / Ø 360	120 x 10	Clamped	For container and coil carrier trailers, the use of air bag stroke limitation is necessary.
2			AL II			1 x 56	< 1200					
3				Z	1 x 62							
4		10 t		S / Z	≥ 1100	1 x 65	Ø 360		120 x 15			
5			Z	< 1100	Welded							
6			11.8 t (only with SN 4220)	S / Z						120 x 17		
7	Off-Road use	9 t	EAC HD	S	≥ 1200	Guide link		HD	Ø 300 / Ø 360 with reinforced airbag plate	120 x 10	Clamped	Tipper trailers require the use of a lowering device or stroke limitation.  Heavy off-road use: such as mining or logging operations on unpaved ground, which can only be used with all-wheel drive machines.  For higher speed the use of the HD shock absorbers are necessary.
8			AL II			1 x 62	Standard / HD	Ø 360 with reinforced airbag plate		120 x 15		
9		10 t		S / Z	1 x 65	120 x 17						
10									150 x 16			
11		10 t - 12 t	SL			1 x 57 / 2 x 43						

**Observations:**

- Deviations from the required features may affect the ECO-Plus warranty. Your BPW contact is at your disposal for further information and personal advice.
- The data sheets of the BPW air suspension must be observed for the exact specification of the air spring modules according to the application areas and the possible combinatorial function of the components mentioned (incl. TE-3075.0).
- Disc cover plate for disc brakes  
On-road: Generally, no cover plate is necessary for on-road use.  
Rugged conditions: Cover plates are recommended for use in rugged conditions. Rugged conditions are the off-road use as well as difficult on-road conditions (e.g. high amounts of dirt, ice or snow).



**TE-3075.0**  
(V1, 22.06.2017)

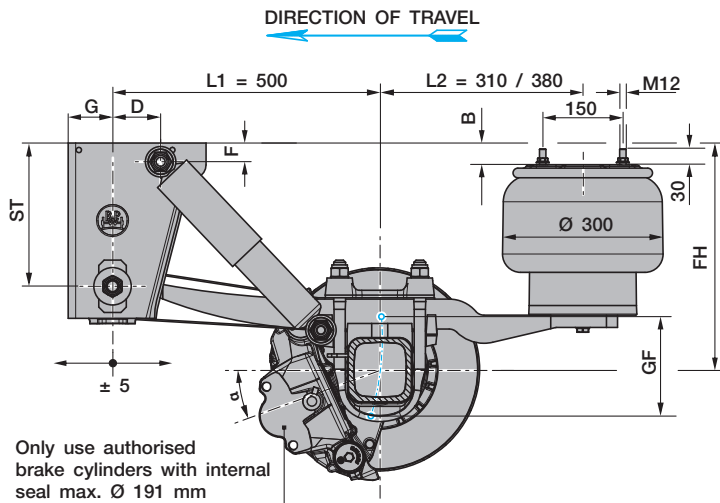
axle seats	axle beam cross section							
	120 x 10	120 x 15	120 x 17	120 massiv	150 x 16	150 x 20	150 x 24	150 massiv
clamped	ok	ok	ok					
welded		ok	ok	ok	ok	ok	ok	ok

trailing arm		axle beam cross section							
		120 x 10	120x 15	120 x 17	120 massiv	150 x 16	150 x 20	150 x 24	150 massiv
70 x 56 70 x 62	L1 = 500 L1 = 550	⊠	⊙						
70 x 62	L1 = 500	⊠ <sup>1)</sup>	⊙	⊙	⊠				
70 x 65	L1 = 500		⊙	⊙	⊠				
70 x 62/65 (3D)	L1 = 500		⊙	⊙	⊠				
70 x 62	L1 = 620 <sup>2)</sup>	⊠	⊠						
2 x 70 x 56	L1 = 690		⊠	⊠	⊠				
2 x 70 x 48	L1 = 550		⊙	⊙	⊠				
2 x 70 x 52	L1 = 500		⊙	⊙	⊠				
100 x 57	L1 = 500					⊠	⊠		
2 x 100 x 43	L1 = 500					⊠	⊠		
2 x 100 x 51	L1 = 550					⊠	⊠	⊠	⊠

⊠	combination not feasible / not permitted
⊠	only clamped axle seat arrangement
⊙	clamped and welded axle seat arrangement possible consider axle load and spring centre acc. to CoG heights
⊠	only welded axle seat arrangement
<sup>1)</sup>	only if spring centre is between 980 and 1100, difference track / spring centre max. 850
<sup>2)</sup>	difference track / spring centre similar to welded axle seat arrangement

feasible centre of gravity heights see TE-1312.0  
deviations have to be discussed with BPW technical department

Rev. 0	(2)	05.09.2018
Subject to change without notice.		



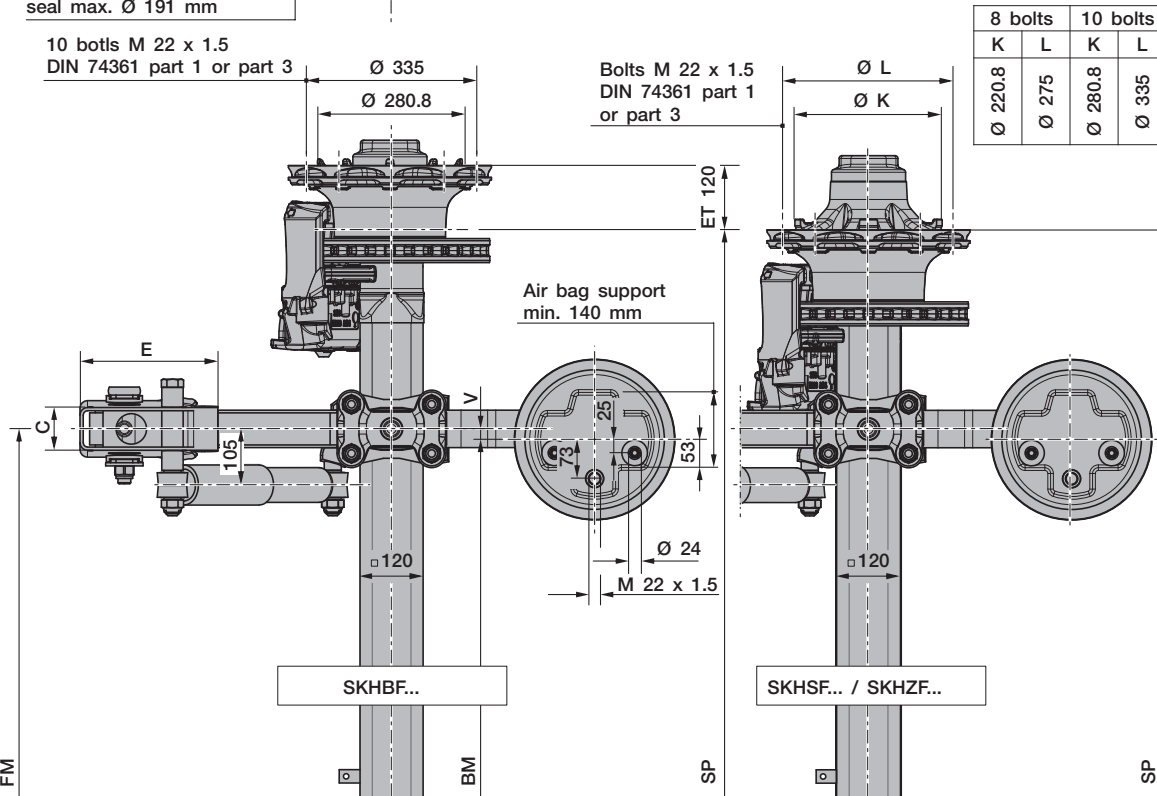
Only use authorised  
brake cylinders with internal  
seal max. Ø 191 mm

Line	Series	Adjustable ride height FH					Total spring travel GF <sup>1)</sup>	Air bag type BPW	Shock absorber 02.37...	Hanger bracket				Shock absorber mounting		Packer <sup>2)</sup> B	Brake position α
		for single axles	for axle units	min. FH with axle raised	empty without air	loaded without air				ST	C	E	G	D	F		
1 <sup>3)</sup>	ALO	390 - 430	400 - 430	430	330	315	190	30K	...22.83.02	184	86	240	83	70	35	---	20°
2	ALO	420 - 470	430 - 470	460	360	345	190	30K	...22.83.02	268	80	258	83	90	35	---	20°
3	ALO	450 - 510	460 - 510	490	390	375	220	30	...22.88.02	268	80	258	83	90	35	---	20°
4	ALO	500 - 565	510 - 565	540	440	425	220	30	...22.88.02	350	100	300	100	100	150	40	20°

- <sup>1)</sup> Lifting heights acc. to TD1242.0
- <sup>2)</sup> The packer is not included in supplied package.
- <sup>3)</sup> Only suitable for semi-trailers/Centre axle drawbar trailer

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

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

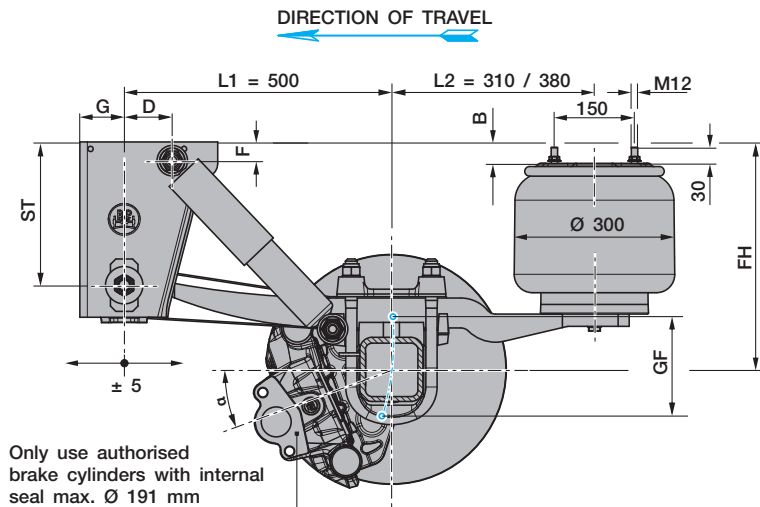


Axle type	Track SP with axle type		Spring centre FM	Air bag centre BM		Tyres recommended	
	...9010	...9008		V = 20	V = 60	10 bolts	8 bolts
SKHBF... 9010	2040	---	1200	1160	1080	385/65 R22.5	---
		---	1300	1260	1180	385/55 R22.5	
	2095	---	1300	1260	1180	385/65 R19.5 <sup>4)</sup> 435/50 R19.5 <sup>5)</sup>	
SKHSF...9010 / 9008	2140	---	1400	1360	1280	445/45 R19.5 <sup>5)</sup>	385/65 R19.5 <sup>4)</sup> 435/50 R19.5 <sup>5)</sup> 445/45 R19.5 <sup>5)</sup>
	2040	2045	1200	1160	1080	385/65 R22.5	
	2095	2100	1300	1260	1180	385/55 R22.5	
SKHZF...9010 / 9008	2140	2145	1400	1360	1280		275/70 R22.5
	1820	1825	900	860	780	265/70 R19.5	
	1880	1885	980	940	860		
	1920	1925	980	940	860		

- <sup>4)</sup> The loading rating of the tyre mentioned in the drawing is in no relation to the axle load capacity. It is dependent on the information from the tyre manufacturer.
- <sup>5)</sup> Note the maximum total width.

- > Max. inclination angle of the semitrailer under full load and lowest adjustable ride height ±1°
- > With trailing arm L1 = 500 / L2 = 310, bag pressures acc. to TE1188.0 sheet 18  
With trailing arm L1 = 500 / L2 = 380, bag pressures acc. to TE1188.0 sheet 15
- > 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).

Rev. 0	(2)	05.09.2018
Subject to change without notice.		

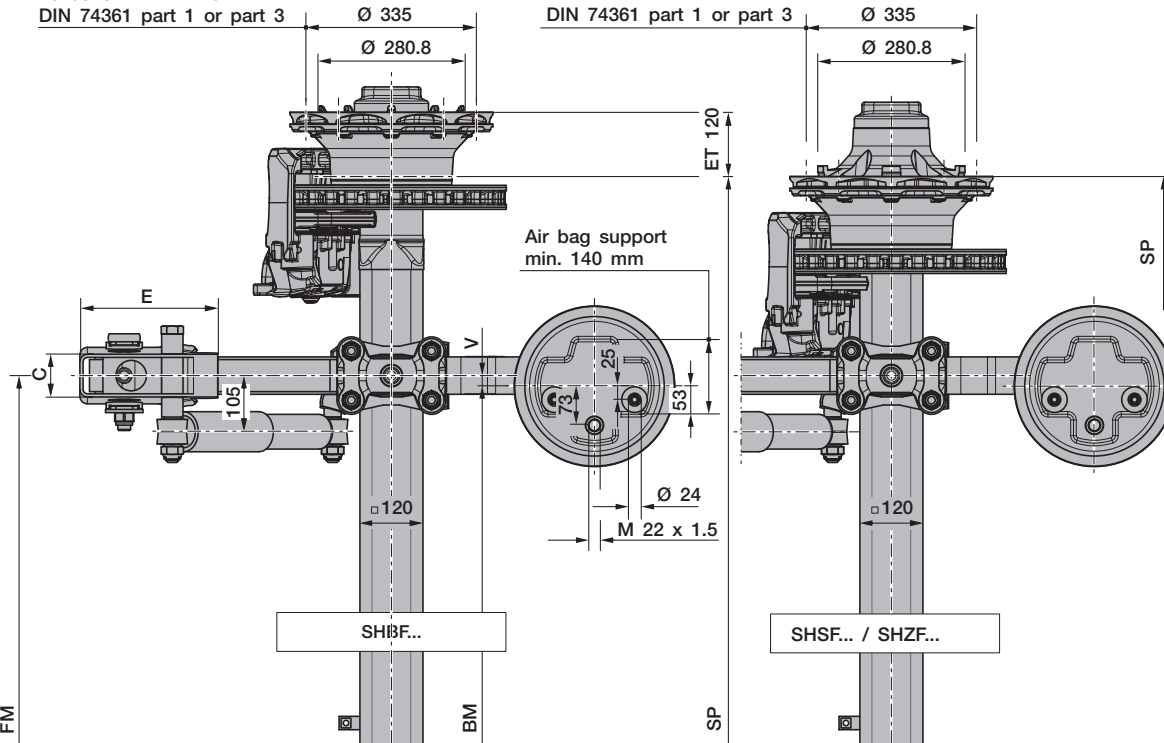


Line	Series	Adjustable ride height FH					Total spring travel GF <sup>1)</sup>	Air bag type BPW	Shock absorber 02.37... <sup>2)</sup>	Hanger bracket				Shock absorber mounting		Packer <sup>2)</sup> B	Brake position α
		for single axles	for axle units	min. FH with axle raised	empty without air	loaded without air				ST	C	E	G	D	F		
1 <sup>3)</sup>	ALO	390 - 430	400 - 430	430	330	315	190	30K	...22.83.02	184	86	240	83	70	35	---	20°
2	ALO	420 - 470	430 - 470	460	360	345	190	30K	...22.83.02	268	80	258	83	90	35	---	20°
3	ALO	450 - 510	460 - 510	490	390	375	220	30	...22.88.02	268	80	258	83	90	35	---	20°
4	ALO	500 - 565	510 - 565	540	440	425	220	30	...22.88.02	350	100	300	100	100	150	40	20°

- <sup>1)</sup> Lifting heights acc. to TD1242.0
- <sup>2)</sup> The packer is not included in supplied package.
- <sup>3)</sup> Only suitable for semi-trailers/Centre axle drawbar trailer

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

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

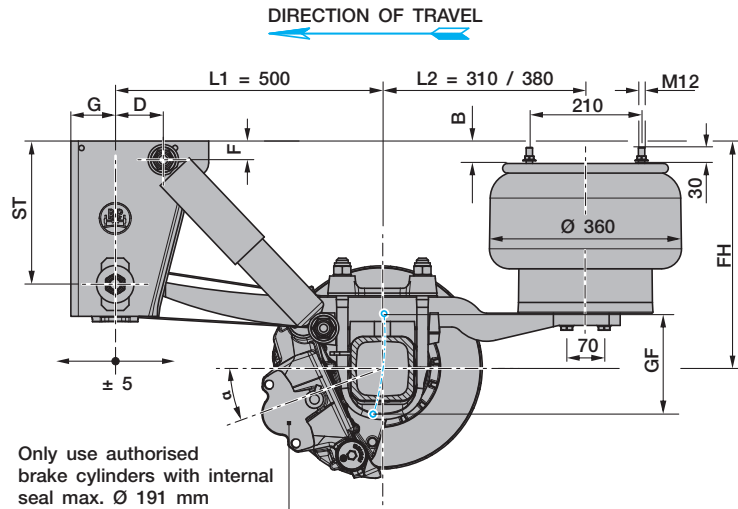


Axle type	Track SP	Spring centre FM	Air bag centre BM		Tyres recommended
			V = 20	V = 60	
SHBF... 9010	2040	1200	1160	1080	385/65 R22.5
	2095	1300	1260	1180	
	2140	1400	1360	1280	385/55 R22.5
SHSF...9010	2040	1200	1160	1080	385/65 R22.5
	2095	1300	1260	1180	
	2140	1400	1360	1280	385/55 R22.5
SHZF...9010	1820	900	860	780	275/70 R22.5
	1880	980	---	860	
	1920	980	940	860	

- Max. inclination angle of the semitrailer under full load and lowest adjustable ride height ±1°
- With trailing arm L1 = 500 / L2 = 310, bag pressures acc. to TE1188.0 sheet 18  
With trailing arm L1 = 500 / L2 = 380, bag pressures acc. to TE1188.0 sheet 15
- 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).

Rev. 1    (2)    30.01.2019  
Subject to change without notice.

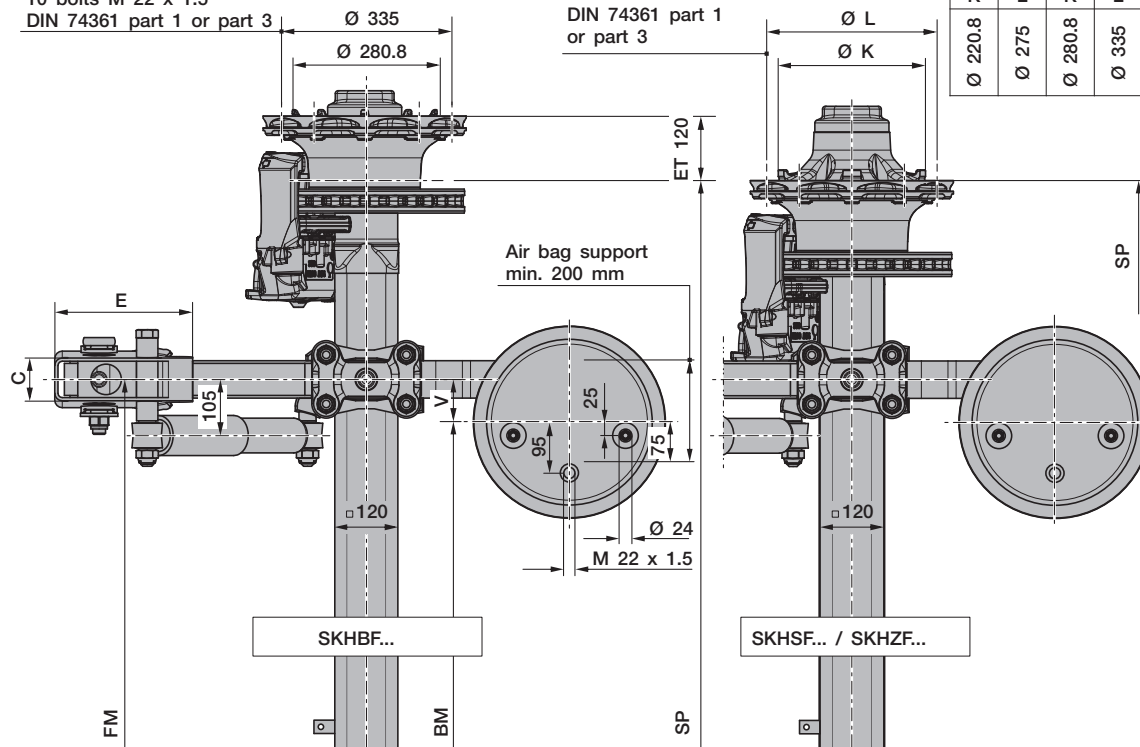




Only use authorised brake cylinders with internal seal max. Ø 191 mm

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

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



Line	Series	Adjustable ride height FH					Total spring travel GF <sup>1)</sup>	Air bag type BPW	Shock absorber 02.37 ...	Hanger bracket				Shock absorber mounting		Packer <sup>2)</sup> B	Brake position α
		for single axles	for axle units	min. FH with axle raised	empty without air	loaded without air				ST	C	E	G	D	F		
1 <sup>3)</sup>	ALO	390 - 430	400 - 430	430	330	315	190	36K	...22.83.02	184	86	240	83	70	35	---	20°
2	ALO	420 - 470	430 - 470	460	360	345	190	36K	...22.83.02	268	80	258	83	90	35	---	20°
3	ALO	450 - 510	460 - 510	490	390	375	220	36	...22.88.02	268	80	258	83	90	35	---	20°
4	ALO	500 - 565	510 - 565	540	440	425	220	36	...22.88.02	350	100	300	100	100	150	40	20°

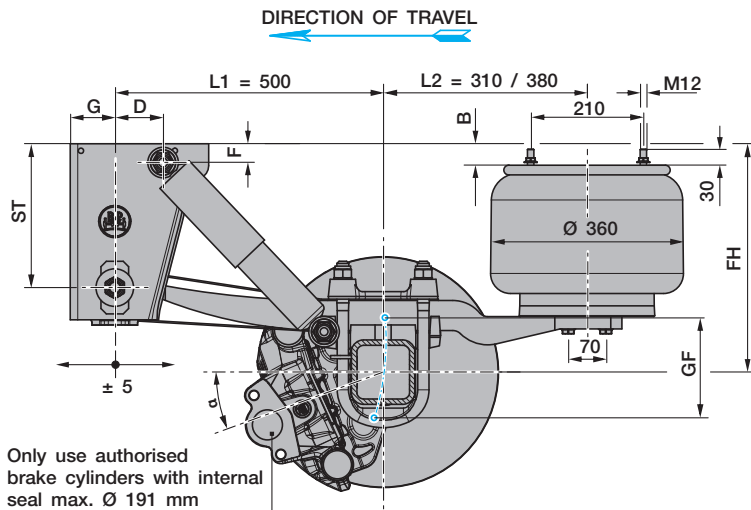
1) Lifting heights acc. to TD1242.0  
2) The packer is not included in supplied package.  
3) Only suitable for semi-trailers/Centre axle drawbar trailer

Axle type	Track SP with axle type		Spring centre FM	Air bag centre BM V = 80	Tyres recommended	
	...9010	...9008			10 bolts	8 bolts
SKHBF... 9010	2040	---	1200	1040	385/65 R22.5	---
	2095	---	1300	1140	385/55 R22.5	
	2095	---	1300	1140	385/65 R19.5 <sup>4)</sup>	
	2140	---	1400	1240	435/50 R19.5 <sup>5)</sup> 445/45 R19.5 <sup>5)</sup>	
SKHSF...9010 / 9008	2040	2045	1200	1040	385/65 R22.5	385/65 R19.5 <sup>4)</sup> 435/50 R19.5 <sup>5)</sup> 445/45 R19.5 <sup>5)</sup>
	2095	2100	1300	1140	385/55 R22.5	
	2140	2145	1400	1240		
SKHZF...9010 / 9008	1820	1825	900	740	275/70 R22.5	265/70 R19.5
	1880	1885	980	820		
	1920	1925	980	820		

4) The loading rating of the tyre mentioned in the drawing is in no relation to the axle load capacity. It is dependent on the information from the tyre manufacturer.  
5) Note the maximum total width.

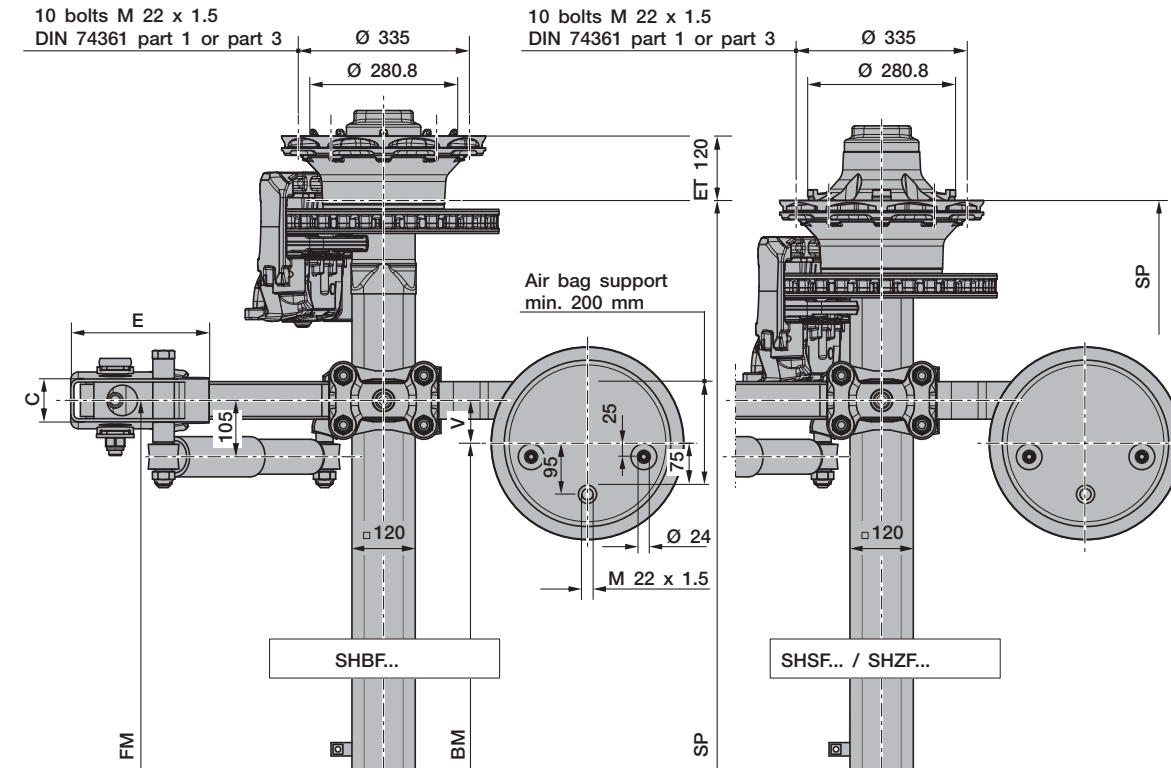
- > Max. inclination angle of the semitrailer under full load and lowest adjustable ride height ±1°
- > With trailing arm L1 = 500 / L2 = 310, bag pressures acc. to TE1188.0 Sheet 5  
With trailing arm L1 = 500 / L2 = 380, bag pressures acc. to TE1188.0 Sheet 11
- > The hanger brackets, air bag supports and the frame must be reinforced so that the forces applied can be absorbed (see the current BPW installation instructions).

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Subject to change without notice.		



Line	Series	Adjustable ride height FH					Total spring travel GF <sup>1)</sup>	Air bag type BPW	Shock absorber 02.37...	Hanger bracket				Shock absorber mounting		Packer <sup>2)</sup> B	Brake position α
		for single axles	for axle units	min. FH with axle raised	empty without air	loaded without air				ST	C	E	G	D	F		
1 <sup>3)</sup>	ALO	390 - 430	400 - 430	430	330	315	190	36K	...22.83.02	184	86	240	83	70	35	---	20°
2	ALO	420 - 470	430 - 470	460	360	345	190	36K	...22.83.02	268	80	258	83	90	35	---	20°
3	ALO	450 - 510	460 - 510	490	390	375	220	36	...22.88.02	268	80	258	83	90	35	---	20°
4	ALO	500 - 565	510 - 565	540	440	425	220	36	...22.88.02	350	100	300	100	100	150	40	20°

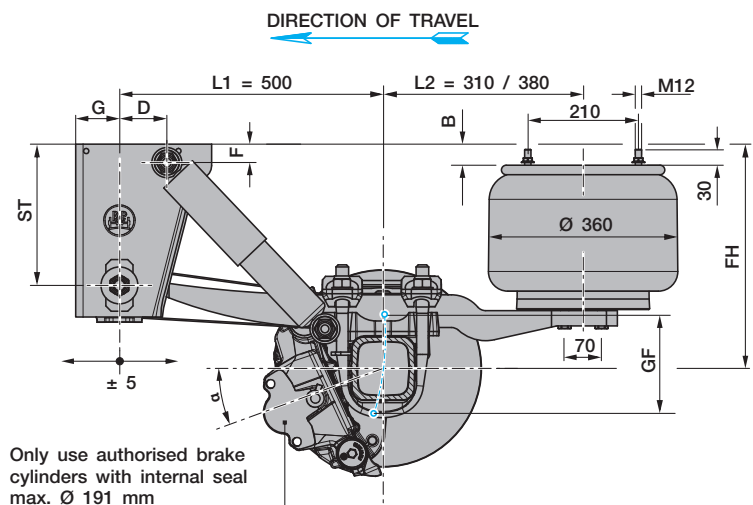
1) Lifting heights acc. to TD1242.0  
2) The packer is not included in supplied package.  
3) Only suitable for semi-trailers/Centre axle drawbar trailer



Axle type	Track SP	Spring centre FM	Air bag centre BM V = 80	Tyres recommended
SHBF... 9010	2040	1200	1040	385/65 R22.5 385/55 R22.5
	2040	1300	1140	
	2095	1300	1140	
SHSF...9010	2040	1400	1240	385/65 R22.5 385/55 R22.5
	2040	1200	1040	
	2040	1300	1140	
SHZF...9010	2040	1300	1140	385/65 R22.5 385/55 R22.5
	2095	1300	1140	
	2140	1400	1240	
SHZF...9010	1820	900	740	275/70 R22.5
	1880	980	820	
	1920	980	820	

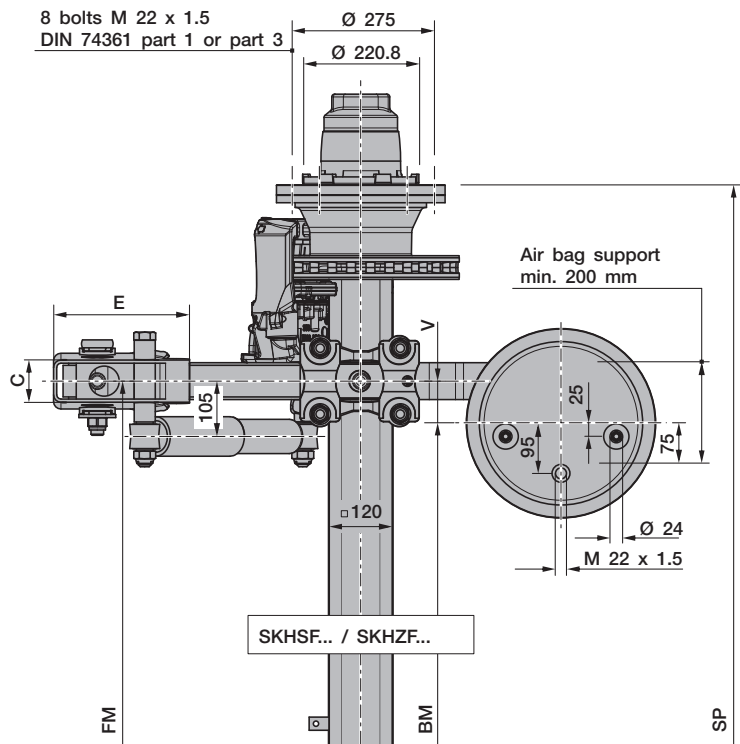
- Max. inclination angle of the semitrailer under full load and lowest adjustable ride height ±1°
- With trailing arm L1 = 500 / L2 = 310, bag pressures acc. to TE1188.0 Sheet 5  
With trailing arm L1 = 500 / L2 = 380, bag pressures acc. to TE1188.0 Sheet 11
- The hanger brackets, air bag supports and the frame must be reinforced so that the forces applied can be absorbed (see the current BPW installation instructions).

Rev. 1 (2) 30.01.2019  
Subject to change without notice.



Only use authorised brake cylinders with internal seal max. Ø 191 mm

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



Line	Series	Adjustable ride height FH					Total spring travel GF <sup>1)</sup>	Air bag type BPW	Shock absorber 02.37...	Hanger bracket				Shock absorber mounting		Packer <sup>2)</sup> B	Brake position $\alpha$
		for single axles	for axle units	min. FH with axle raised	empty without air	loaded without air				ST	C	E	G	D	F		
1 <sup>3)</sup>	ALO	390 - 430	400 - 430	430	330	315	190	36K	...22.83.02	184	86	240	83	70	35	---	20°
2	ALO	420 - 470	430 - 470	460	360	345	190	36K	...22.83.02	268	80	258	83	90	35	---	20°
3	ALO	450 - 510	460 - 510	490	390	375	220	36	...22.88.02	268	80	258	83	90	35	---	20°
4	ALO	500 - 565	510 - 565	540	440	425	220	36	...22.88.02	350	100	300	100	100	150	40	20°

<sup>1)</sup> Lifting heights acc. to TD1242.0

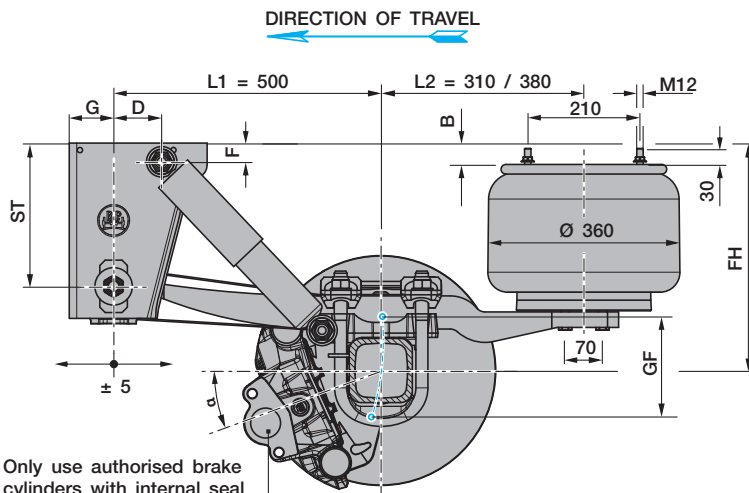
<sup>2)</sup> The packer is not included in supplied package.

<sup>3)</sup> Only suitable for semi-trailers/Centre axle drawbar trailer

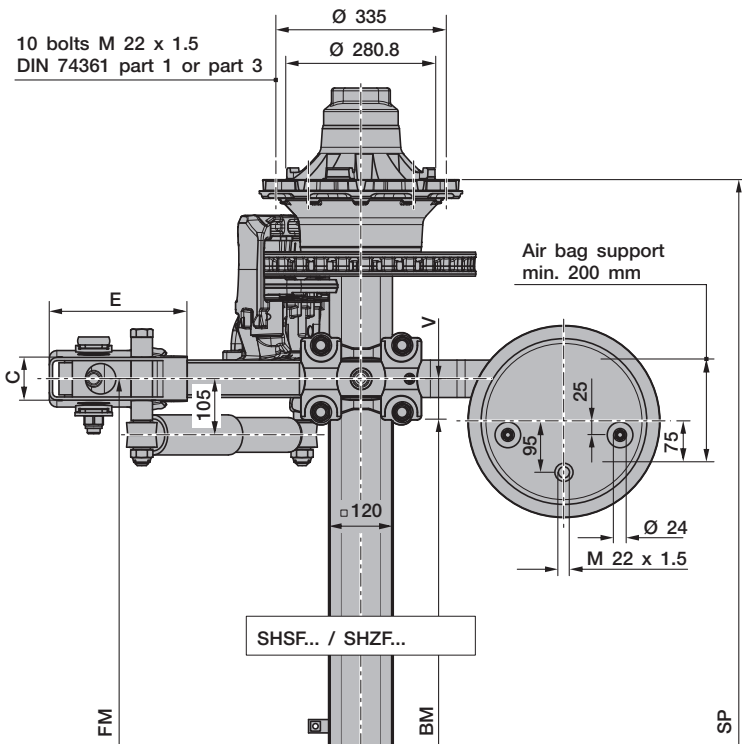
Axle type	Track SP	Spring centre FM	Air bag centre BM V = 80	Tyres recommended
SKHSF...10008	2040	1200	1040	445/65 R19.5
		1300	1140	
SKHZF...10008	1820	900	740	265/70 R19.5
		1880	980	
		1970	1100	

- > Max. inclination angle of the semitrailer under full load and lowest adjustable ride height  $\pm 1^\circ$
- > With trailing arm L1 = 500 / L2 = 310, bag pressures acc. to TE1188.0 Sheet 5  
With trailing arm L1 = 500 / L2 = 380, bag pressures acc. to TE1188.0 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).

Rev. 0 (2) 05.09.2018  
Subject to change without notice.



Only use authorised brake cylinders with internal seal max. Ø 191 mm



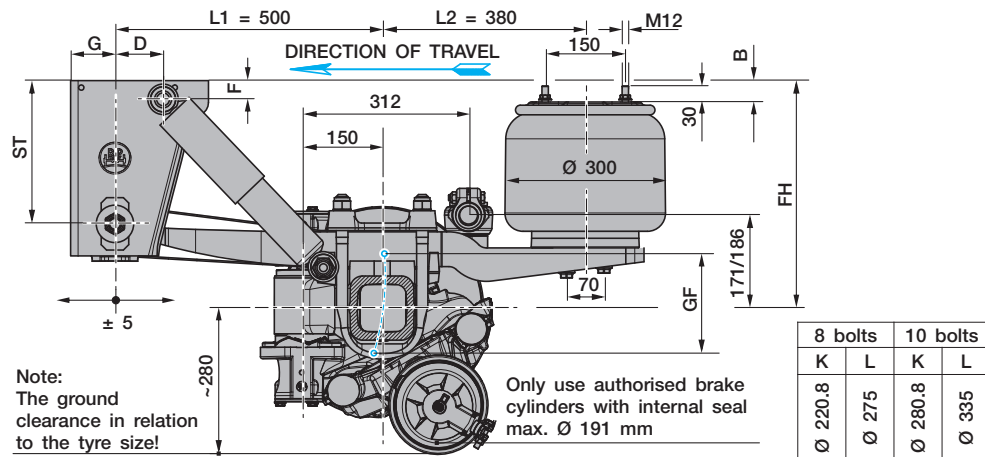
Line	Series	Adjustable ride height FH					Total spring travel GF <sup>1)</sup>	Air bag type BPW	Shock absorber 02.37...	Hanger bracket				Shock absorber mounting		Packer <sup>2)</sup> B	Brake position α
		for single axles	for axle units	min. FH with axle raised	empty without air	loaded without air				ST	C	E	G	D	F		
1 <sup>3)</sup>	ALO	390 - 430	400 - 430	430	330	315	190	36K	...22.83.02	184	86	240	83	70	35	---	20°
2	ALO	420 - 470	430 - 470	460	360	345	190	36K	...22.83.02	268	80	258	83	90	35	---	20°
3	ALO	450 - 510	460 - 510	490	390	375	220	36	...22.88.02	268	80	258	83	90	35	---	20°
4	ALO	500 - 565	510 - 565	540	440	425	220	36	...22.88.02	350	100	300	100	100	150	40	20°

<sup>1)</sup> Lifting heights acc. to TD1242.0  
<sup>2)</sup> The packer is not included in supplied package.  
<sup>3)</sup> Only suitable for semi-trailers/Centre axle drawbar trailer

Axle type	Track SP	Spring centre FM	Air bag centre BM V = 80	Tyres recommended
SHSF...10110	2040	1200	1040	425/65 R22.5
		1300	1140	
SHZF...10110	1820	900	740	275/70 R22.5
		1880	980	

- Max. inclination angle of the semitrailer under full load and lowest adjustable ride height ±1°
- With trailing arm L1 = 500 / L2 = 310, bag pressures acc. to TE1188.0 Sheet 5  
With trailing arm L1 = 500 / L2 = 380, bag pressures acc. to TE1188.0 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).

Rev. 1	(2)	30.01.2019
Subject to change without notice.		



Note:  
The ground clearance in relation to the tyre size!

Only use authorised brake cylinders with internal seal max. Ø 191 mm

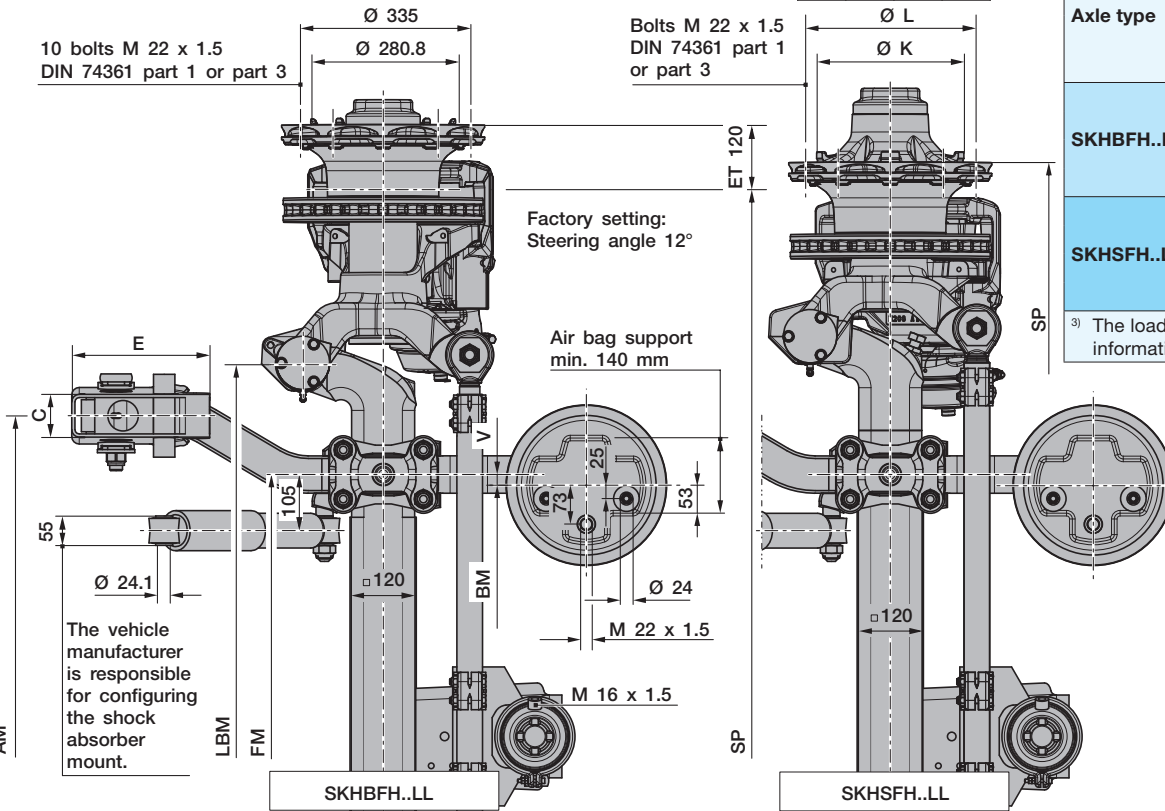
8 bolts		10 bolts	
K	L	K	L
Ø 220.8	Ø 275	Ø 280.8	Ø 335

Line	Series	Adjustable ride height FH				Total spring travel GF <sup>1)</sup>	Air bag type BPW	Shock absorber 02.37...	Hanger bracket				Shock absorber mounting		Packer <sup>2)</sup> B
		for axle units	min. FH with axle raised	empty without air	loaded without air				ST	C	E	G	D	F	
2	ALOLL	430 - 470	460	360	345	190	30K	...22.83.02	268	80	258	83	90	35	---
3	ALOLL	460 - 510	490	390	375	220	30	...22.88.02	268	80	258	83	90	35	---
4	ALOLL	510 - 565	540	440	425	220	30	...22.88.02	350	100	300	100	100	150	40

<sup>1)</sup> Lifting heights acc. to TD1242.0  
<sup>2)</sup> The packer is not included in supplied package.

Axle type	Track SP with axle type		Spring centre FM	Hanger bracket centre AM	Steering pivot centre LBM	Air bag centre BM		Tyres recommended		
	...9010	...9008				V = 20	V = 60	10 bolts	8 bolts	
SKHBFH..LL 9010	2040	---	980	1200	1395	940	860	385/65 R22.5 385/55 R22.5 385/65 R19.5 <sup>3)</sup>	---	
	2095	---	1080	1300		1040	960			
	2140	---	1080	1300		1495	1040			960
SKHSFH..LL 9010 / 9008	2040	2045	980	1200	1395	940	860	385/65 R22.5 385/55 R22.5	385/65 R19.5 <sup>3)</sup>	
	2095	2100	1080	1300		1450	1040			960
	2140	2145	1080	1300		1495	1040			960

<sup>3)</sup> The loading rating of the tyre mentioned in the drawing is in no relation to the axle load capacity. It is dependent on the information from the tyre manufacturer.

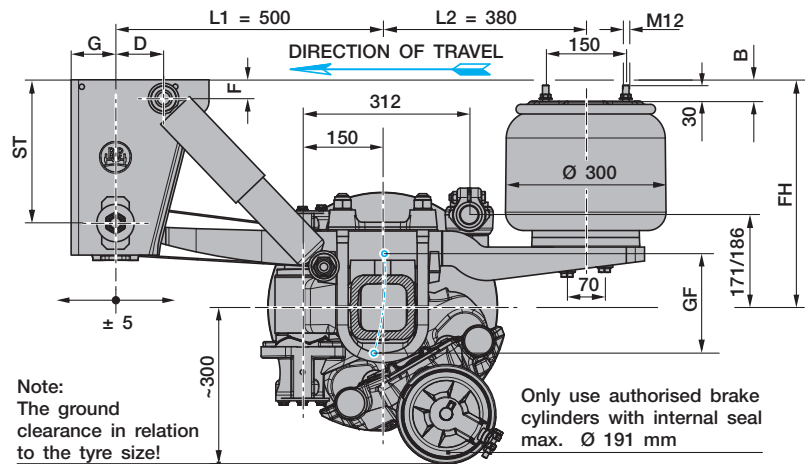


- > Max. inclination angle of the semitrailer under full load and lowest adjustable ride height ±1°
- > With trailing arm L1 = 500 / L2 = 380, bag pressures acc. to TE1188.0 sheet 15
- > The hanger brackets, air bag supports and the frame must be reinforced so that the forces applied can be absorbed (see the current BPW installation instructions).

With an axle load ratio - rigid axle to steering axle - of 1:1, in suspension units with a lifting axle and when using central lubrication systems, the steering axle must be equipped with a steering damper.

Trailing arm		Steering tie rod position	Steering damper parts kit	Drawing
L1	L2			
500	380	312 / 171 (up to 20° SA)	05.872.00.69.0	04.00.568302
500	380	312 / 186 (over 20° SA)	05.872.00.69.0	04.00.568357

Rev. 1 (2) 19.02.2019  
Subject to change without notice.

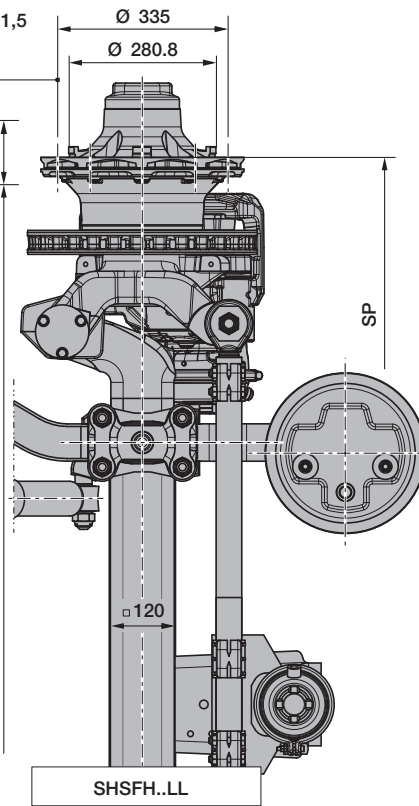
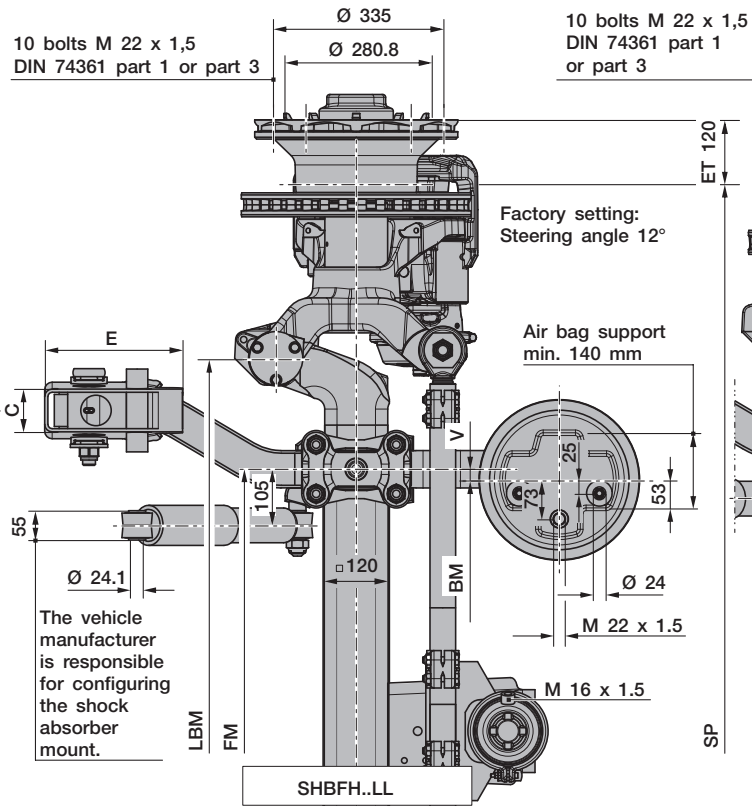


Note:  
The ground clearance in relation to the tyre size!

Only use authorised brake cylinders with internal seal max. Ø 191 mm

Line	Series	Adjustable ride height FH				Total spring travel GF <sup>1)</sup>	Air bag type BPW	Shock absorber 02.37...	Hanger bracket				Shock absorber mounting		Packer <sup>2)</sup> B
		for axle units	min. FH with axle raised	empty without air	loaded without air				ST	C	E	G	D	F	
2	ALOLL	430 - 470	460	360	345	190	30K	...22.83.02	268	80	258	83	90	35	---
3	ALOLL	460 - 510	490	390	375	220	30	...22.88.02	268	80	258	83	90	35	---
4	ALOLL	510 - 565	540	440	425	220	30	...22.88.02	350	100	300	100	100	150	40

<sup>1)</sup> Lifting heights acc. to TD1242.0  
<sup>2)</sup> The packer is not included in supplied package.



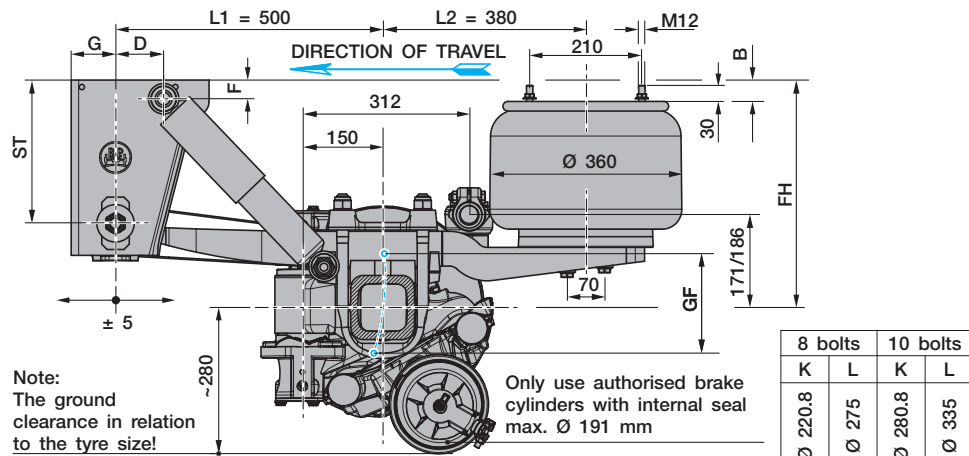
Axle type	Track SP	Spring centre FM	Hanger bracket centre AM	Steering pivot centre LBM	Air bag centre BM		Tyres recommended
					V = 20	V = 60	
SHBFH..LL 9010	2040	980	1200	1395	940	860	385/65 R22.5
	2095	1080	1300		1040	960	
	2140	1080	1300	1495	1040	960	
SHSFH..LL 9010	2040	980	1200	1395	940	860	385/65 R22.5
	2095	1080	1300		1495	1040	
	2140	1080	1300	1495	1040	960	

- > 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 TE1188.0 sheet 15
- > 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 an axle load ratio - rigid axle to steering axle - of 1:1, in suspension units with a lifting axle and when using central lubrication systems, the steering axle must be equipped with a steering damper.

Trailing arm		Steering tie rod position	Steering damper parts kit	Drawing
L1	L2			
500	380	312 / 171 (up to 20° SA)	05.872.00.69.0	04.00.568302
500	380	312 / 186 (over 20° SA)	05.872.00.69.0	04.00.568357

Rev. 2 (2) 19.02.2019  
Subject to change without notice.



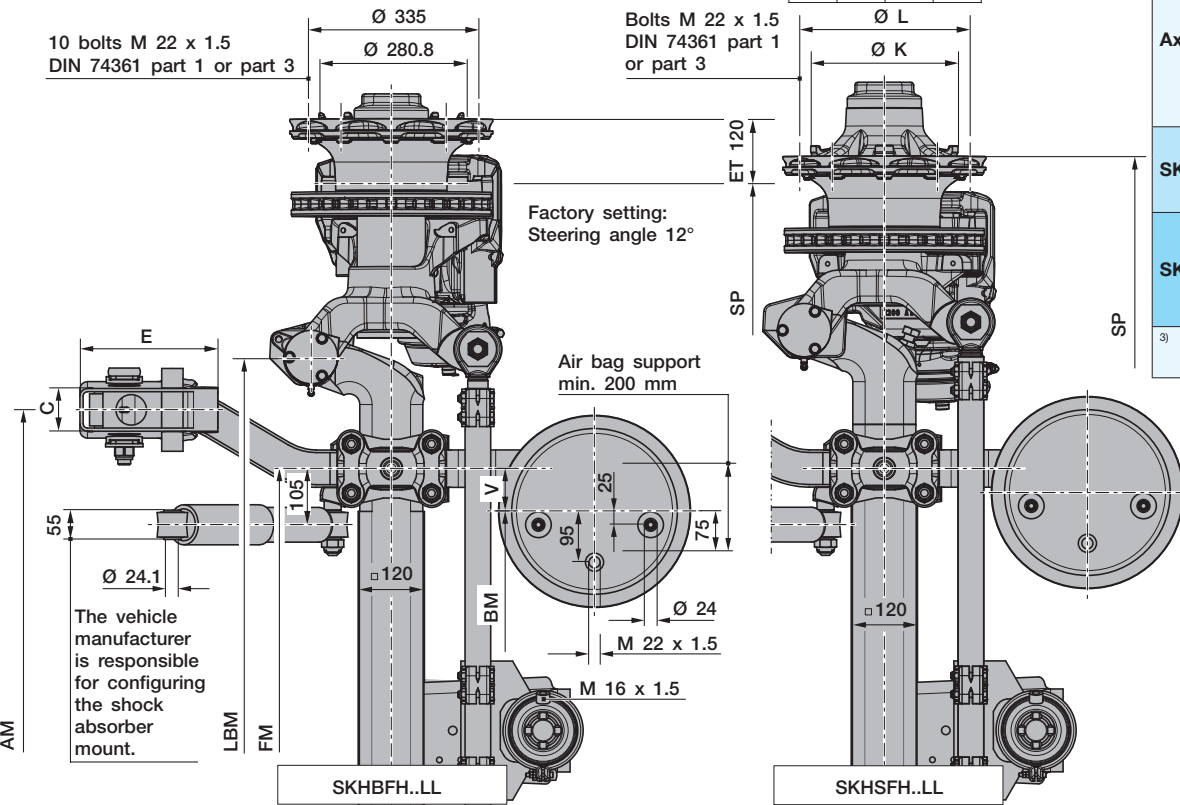
Note:  
The ground clearance in relation to the tyre size!

Only use authorised brake cylinders with internal seal max. Ø 191 mm

8 bolts		10 bolts	
K	L	K	L
Ø 220.8	Ø 275	Ø 280.8	Ø 335

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

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



Line	Series	Adjustable ride height FH				Total spring travel GF <sup>1)</sup>	Air bag type BPW	Shock absorber 02.37...	Hanger bracket				Shock absorber mounting		Packer <sup>2)</sup> B
		for axle units	min. FH with axle raised	empty without air	loaded without air				ST	C	E	G	D	F	
2	ALOLL	430 - 470	460	360	345	190	36K	...22.83.02	268	80	258	83	90	35	---
3	ALOLL	460 - 510	490	390	375	220	36	...22.88.02	268	80	258	83	90	35	---
4	ALOLL	510 - 565	540	440	425	220	36	...22.88.02	350	100	300	100	100	150	40

<sup>1)</sup> Lifting heights acc. to TD1242.0

<sup>2)</sup> The packer is not included in supplied package.

Axle type	Track SP with axle type		Spring centre FM	Hanger bracket centre AM	Steering pivot centre LBM	Air bag centre BM V = 80	Tyres recommended	
	...9010	...9008					10 bolts	8 bolts
SKHBFH..LL 9010	2040	---	980	1200	1395	820	385/65 R22.5	---
	2095	---	1080	1300	1450	920	385/55 R22.5	
	2140	---	1080	1300	1495	920	385/65 R19.5 <sup>3)</sup>	
SKHSFH..LL 9010 / 9008	2040	2045	980	1200	1395	820	385/65 R22.5 385/55 R22.5	385/65 R19.5 <sup>3)</sup>
	2095	2100	1080	1300	1450	920		
	2140	2145	1080	1300	1495	920		
	2140	2145	1080	1300	1495	920		

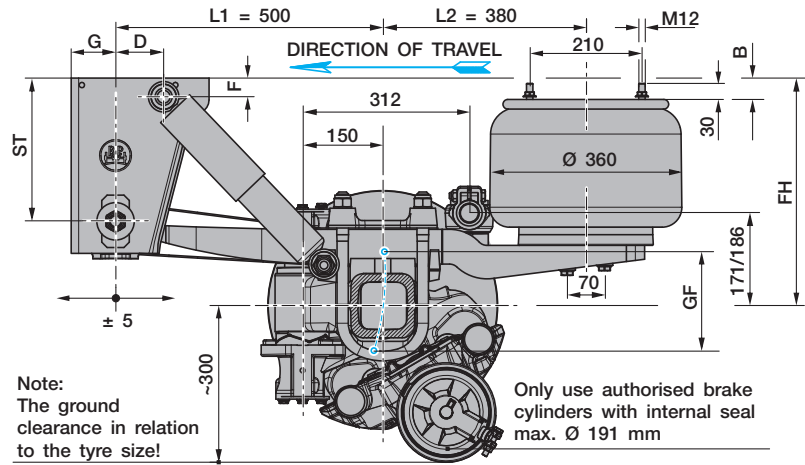
<sup>3)</sup> The loading rating of the tyre mentioned in the drawing is in no relation to the axle load capacity. It is dependent on the information from the tyre manufacturer.

> 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 TE1188.0 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 an axle load ratio - rigid axle to steering axle - of 1:1, in suspension units with a lifting axle and when using central lubrication systems, the steering axle must be equipped with a steering damper.

Trailing arm		Steering tie rod position	Steering damper parts kit	Drawing
L1	L2			
500	380	312 / 171 (up to 20° SA)	05.872.00.69.0	04.00.568302
500	380	312 / 186 (over 20° SA)	05.872.00.69.0	04.00.568357



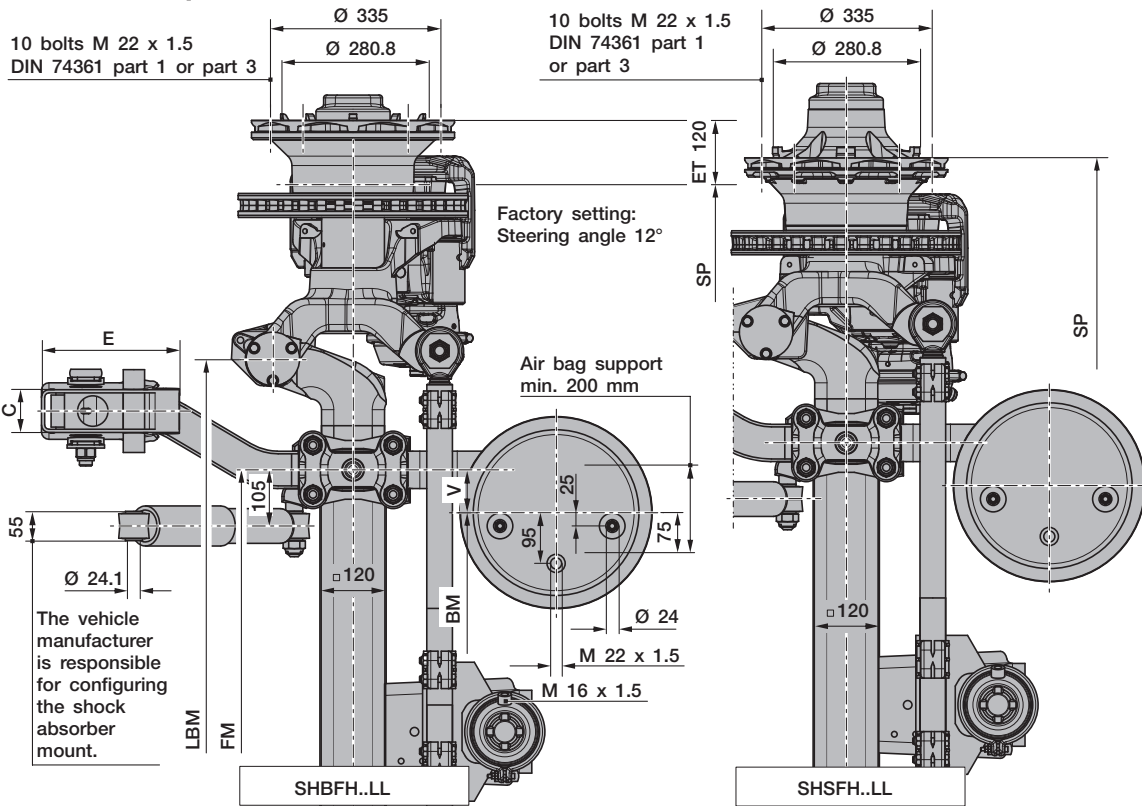
Note:  
The ground clearance in relation to the tyre size!

Only use authorised brake cylinders with internal seal max. Ø 191 mm

Line	Series	Adjustable ride height FH				Total spring travel GF <sup>1)</sup>	Air bag type BPW	Shock absorber 02.37...	Hanger bracket				Shock absorber mounting		Packer <sup>2)</sup> B
		for axle units	min. FH with axle raised	empty without air	loaded without air				ST	C	E	G	D	F	
2	ALOLL	430 - 470	460	360	345	190	36K	...22.83.02	268	80	258	83	90	35	---
3	ALOLL	460 - 510	490	390	375	220	36	...22.88.02	268	80	258	83	90	35	---
4	ALOLL	510 - 565	540	440	425	220	36	...22.88.02	350	100	300	100	100	150	40

<sup>1)</sup> Lifting heights acc. to TD1242.0

<sup>2)</sup> The packer is not included in supplied package.



Axle type	Track SP	Spring centre FM	Hanger bracket centre AM	Steering pivot centre LBM	Air bag centre BM V = 80	Tyres recommended
SHBFH..LL 9010	2040	980	1200	1395	820	385/65 R22.5 385/55 R22.5
	2095	1080	1300	1450	920	
	2140	1080	1300	1495	920	
SHSFH..LL 9010	2040	980	1200	1395	820	385/65 R22.5 385/55 R22.5
	2095	1080	1300	1450	920	
	2140	1080	1300	1495	920	
SHSFH..LL 10110	2040	1080	1300	1395	920	425/65 R22.5
	2095	1080	1300	1450	920	

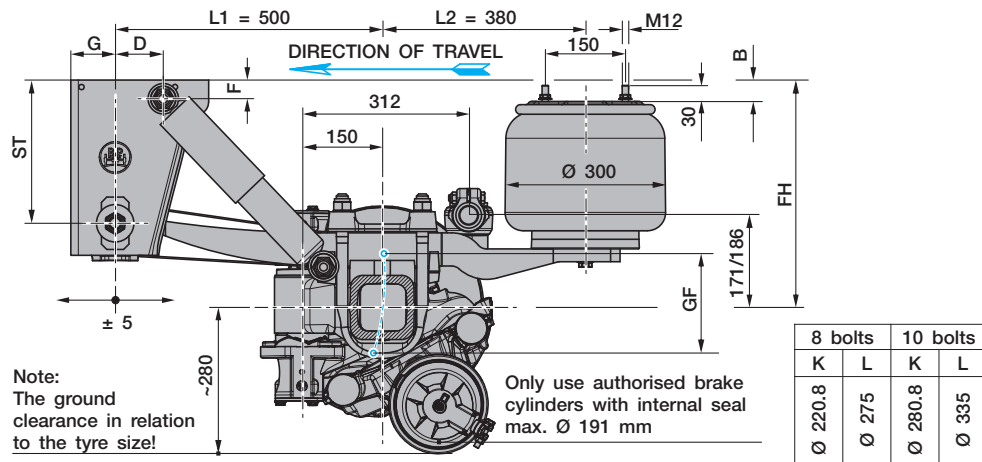
- > Max. inclination angle of the semitrailer under full load and lowest adjustable ride height ±1°
- > With trailing arm L1 = 500 / L2 = 380, bag pressures acc. to TE1188.0 Sheet 11
- > The hanger brackets, air bag supports and the frame must be reinforced so that the forces applied can be absorbed (see the current BPW installation instructions).

With an axle load ratio - rigid axle to steering axle - of 1:1, in suspension units with a lifting axle and when using central lubrication systems, the steering axle must be equipped with a steering damper.

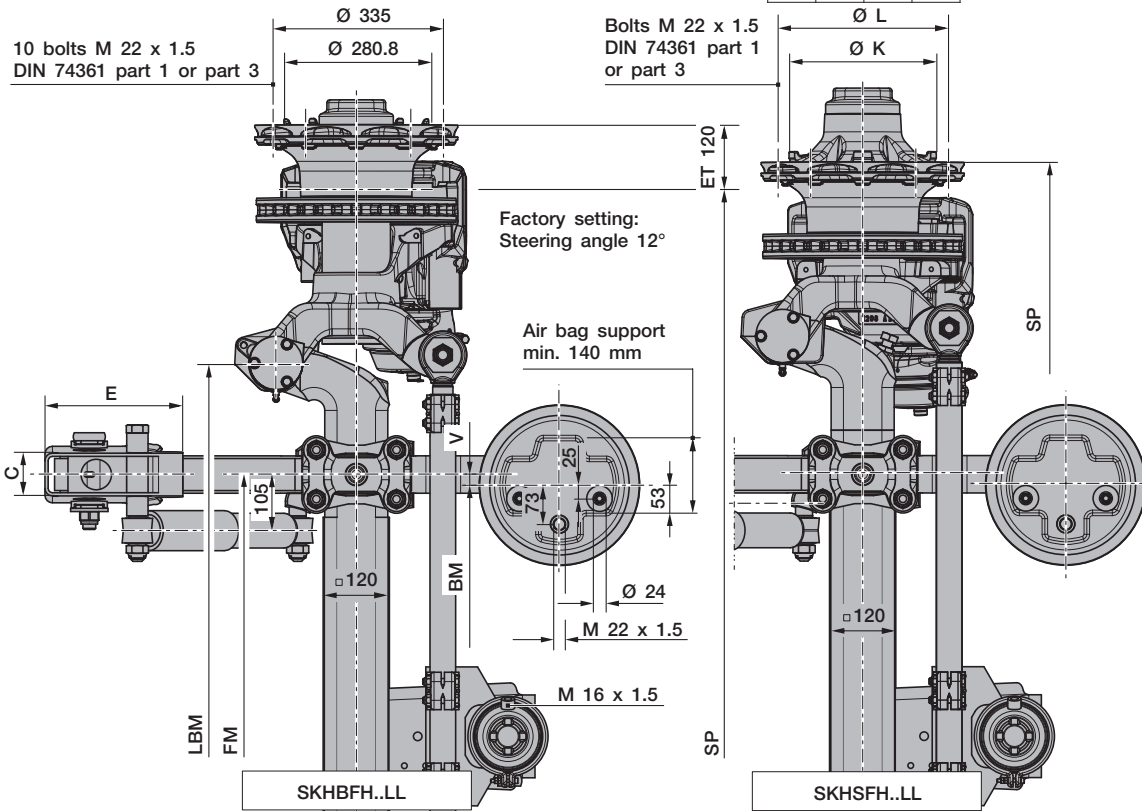
Trailing arm		Steering tie rod position	Steering damper parts kit	Drawing
L1	L2			
500	380	312 / 171 (up to 20° SA)	05.872.00.69.0	04.00.568302
500	380	312 / 186 (over 20° SA)	05.872.00.69.0	04.00.568357

Rev. 2 (2) 19.02.2019  
Subject to change without notice.





8 bolts		10 bolts	
K	L	K	L
Ø 220.8	Ø 275	Ø 280.8	Ø 335



Line	Series	Adjustable ride height FH				Total spring travel GF <sup>1)</sup>	Air bag type BPW	Shock absorber 02.37...	Hanger bracket				Shock absorber mounting		Packer <sup>2)</sup> B
		for axle units	min. FH with axle raised	empty without air	loaded without air				ST	C	E	G	D	F	
2	ALOLL	430 - 470	460	360	345	190	30K	...22.83.02	268	80	258	83	90	35	---
3	ALOLL	460 - 510	490	390	375	220	30	...22.88.02	268	80	258	83	90	35	---
4	ALOLL	510 - 565	540	440	425	220	30	...22.88.02	350	100	300	100	100	150	40

<sup>1)</sup> Lifting heights acc. to TD1242.0  
<sup>2)</sup> The packer is not included in supplied package.

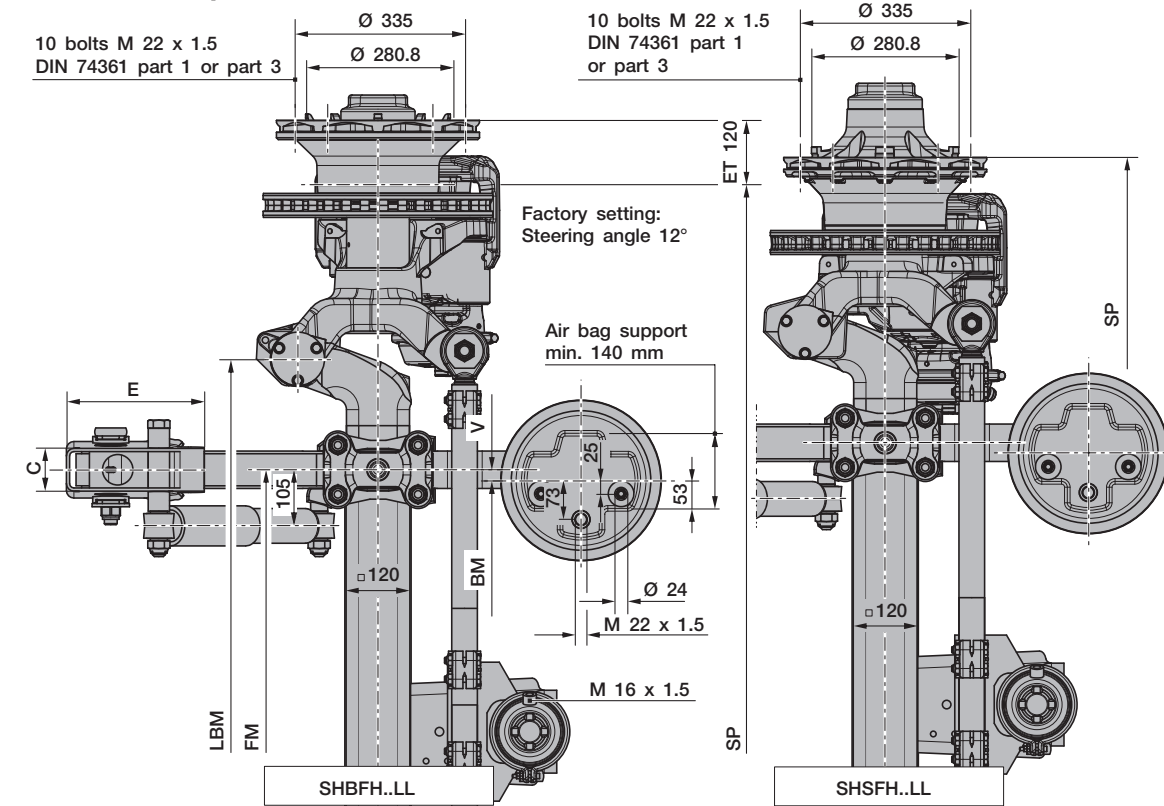
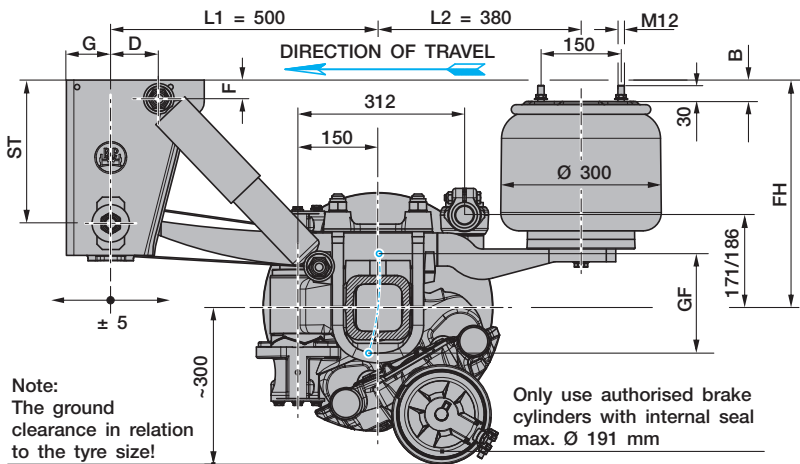
Axle type	Track SP with axle type		Spring centre FM	Steering pivot centre LBM	Air bag centre BM		Tyres recommended	
	...9010	...9008			V = 20	V = 60	10 bolts	8 bolts
SKHBFH..LL 9010	2040	---	980	1395	940	860	385/65 R22.5 385/55 R22.5 385/65 R19.5 <sup>3)</sup>	---
	2095	---	1080		1040	960		
	2140	---	1080	1495	1040	960		
SKHSFH..LL 9010 / 9008	2040	2045	980	1395	940	860	385/65 R22.5 385/55 R22.5	385/65 R19.5 <sup>3)</sup>
	2095	2100	1080		1040	960		
	2140	2145	1080	1495	1040	960		

<sup>3)</sup> The loading rating of the tyre mentioned in the drawing is in no relation to the axle load capacity. It is dependent on the information from the tyre manufacturer.

- > 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 TE1188.0 sheet 15
- > 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 an axle load ratio - rigid axle to steering axle - of 1:1, in suspension units with a lifting axle and when using central lubrication systems, the steering axle must be equipped with a steering damper.

Trailing arm		Steering tie rod position	Steering damper parts kit	Drawing
L1	L2			
500	380	312 / 171 (up to 20° SA)	05.872.00.69.0	04.00.568302
500	380	312 / 186 (over 20° SA)	05.872.00.69.0	04.00.568357



Line	Series	Adjustable ride height FH				Total spring travel GF <sup>1)</sup>	Air bag type BPW	Shock absorber 02.37...	Hanger bracket				Shock absorber mounting		Packer <sup>2)</sup> B
		for axle units	min. FH with axle raised	empty without air	loaded without air				ST	C	E	G	D	F	
2	ALOLL	430 - 470	460	360	345	190	30K	...22.83.02	268	80	258	83	90	35	---
3	ALOLL	460 - 510	490	390	375	220	30	...22.88.02	268	80	258	83	90	35	---
4	ALOLL	510 - 565	540	440	425	220	30	...22.88.02	350	100	300	100	100	150	40

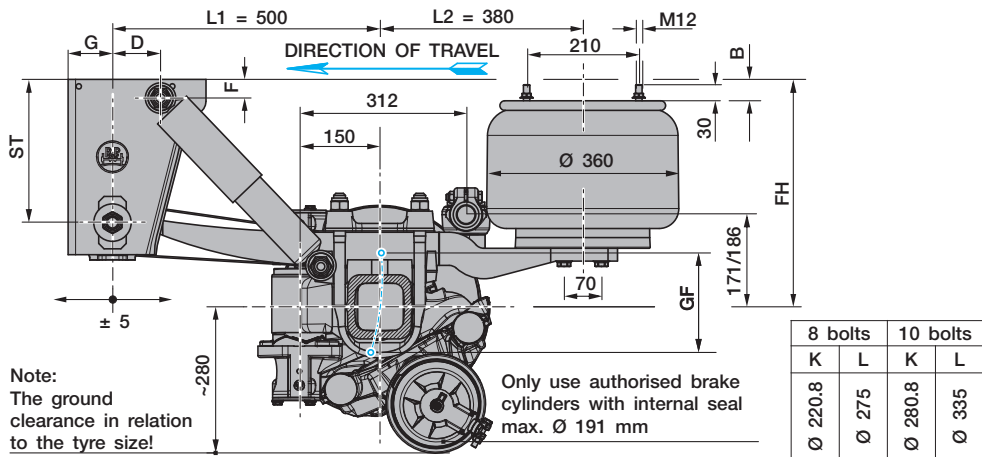
<sup>1)</sup> Lifting heights acc. to TD1242.0  
<sup>2)</sup> The packer is not included in supplied package.

Axle type	Track SP	Spring centre FM	Steering pivot centre LBM	Air bag centre BM		Tyres recommended
				V = 20	V = 60	
SHBFH..LL 9010	2040	980	1395	940	860	385/65 R22.5
	2095	1080	1450	1040	960	385/55 R22.5
	2140	1080	1495	1040	960	
SHSFH..LL 9010	2040	980	1395	940	860	385/65 R22.5
	2095	1080	1450	1040	960	385/55 R22.5
	2140	1080	1495	1040	960	

- > 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 TE1188.0 sheet 15
- > 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 an axle load ratio - rigid axle to steering axle - of 1:1, in suspension units with a lifting axle and when using central lubrication systems, the steering axle must be equipped with a steering damper.

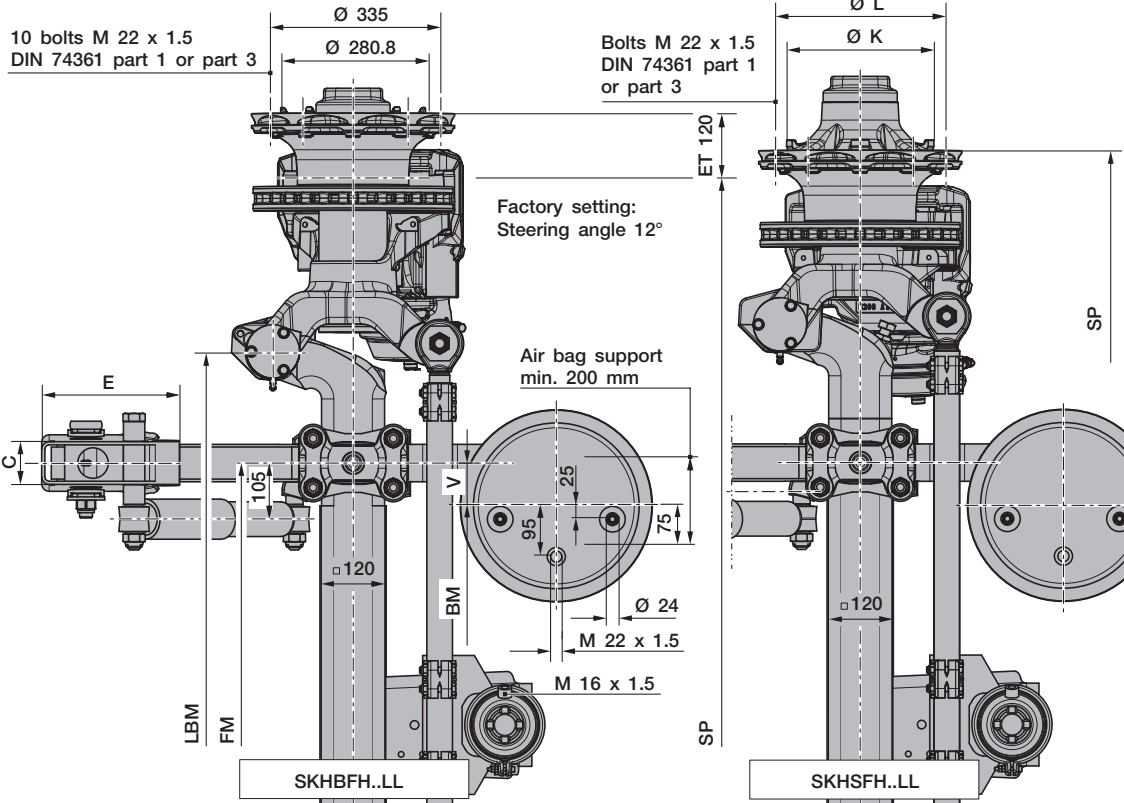
Trailing arm		Steering tie rod position	Steering damper parts kit	Drawing
L1	L2			
500	380	312 / 171 (up to 20° SA)	05.872.00.69.0	04.00.568302
500	380	312 / 186 (over 20° SA)	05.872.00.69.0	04.00.568357



8 bolts		10 bolts	
K	L	K	L
Ø 220.8	Ø 275	Ø 280.8	Ø 335

Line	Series	Adjustable ride height FH				Total spring travel GF <sup>1)</sup>	Air bag type BPW	Shock absorber 02.37...	Hanger bracket				Shock absorber mounting		Packer <sup>2)</sup> B
		for axle units	min. FH with axle raised	empty without air	loaded without air				ST	C	E	G	D	F	
2	ALOLL	430 - 470	460	360	345	190	36K	...22.83.02	268	80	258	83	90	35	---
3	ALOLL	460 - 510	490	390	375	220	36	...22.88.02	268	80	258	83	90	35	---
4	ALOLL	510 - 565	540	440	425	220	36	...22.88.02	350	100	300	100	100	150	40

<sup>1)</sup> Lifting heights acc. to TD1242.0  
<sup>2)</sup> The packer is not included in supplied package.



Axle type	Track SP with axle type		Spring centre FM	Steering pivot centre LBM	Air bag centre BM V = 80	Tyres recommended	
	...9010	...9008				10 bolts	8 bolts
SKHBFH..LL 9010	2040	---	980	1395	820	385/65 R22.5	---
	2095	---	1080	1450	920	385/55 R22.5	---
	2140	---	1080	1495	920	385/65 R19.5 <sup>3)</sup>	---
SKHSFH..LL 9010 / 9008	2040	2045	980	1395	820	385/65 R22.5	385/65 R19.5 <sup>3)</sup>
			1080	1450	920		
	2095	2100	1080	1450	920	385/55 R22.5	
	2140	2145	1080	1495	920		

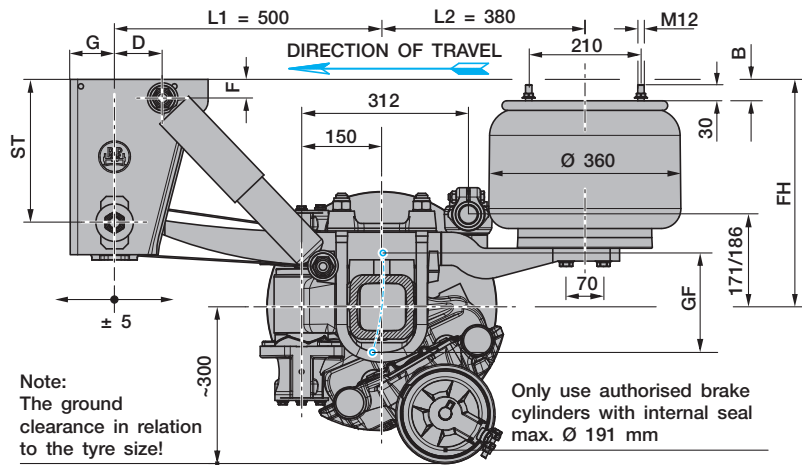
<sup>3)</sup> The loading rating of the tyre mentioned in the drawing is in no relation to the axle load capacity. It is dependent on the information from the tyre manufacturer.

- > 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 TE1188.0 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).

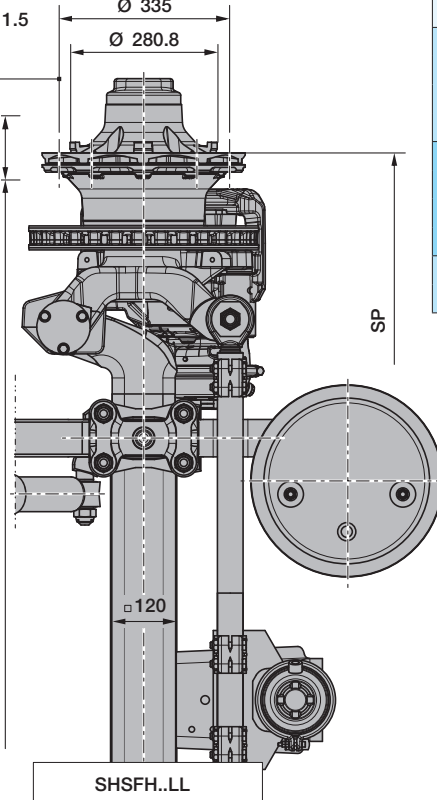
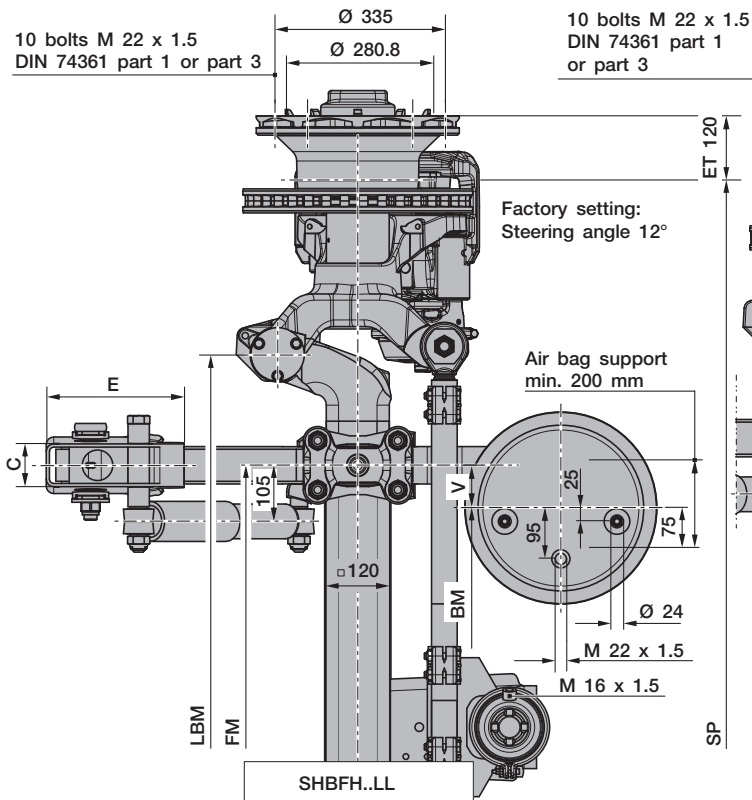
With an axle load ratio - rigid axle to steering axle - of 1:1, in suspension units with a lifting axle and when using central lubrication systems, the steering axle must be equipped with a steering damper.

Trailing arm		Steering tie rod position	Steering damper parts kit	Drawing
L1	L2			
500	380	312 / 171 (up to 20° SA)	05.872.00.69.0	04.00.568302
500	380	312 / 186 (over 20° SA)	05.872.00.69.0	04.00.568357

Rev. 1 (2) 19.02.2019  
Subject to change without notice.



Only use authorised brake cylinders with internal seal max. Ø 191 mm



Line	Series	Adjustable ride height FH				Total spring travel GF <sup>1)</sup>	Air bag type BPW	Stoßdämpfer 2.37...	Hanger bracket				Shock absorber mounting		Packer <sup>2)</sup> B
		for axle units	min. FH with axle raised	empty without air	loaded without air				ST	C	E	G	D	F	
2	ALOLL	430 - 470	460	360	345	190	36K	...22.83.02	268	80	258	83	90	35	---
3	ALOLL	460 - 510	490	390	375	220	36	...22.88.02	268	80	258	83	90	35	---
4	ALOLL	510 - 565	540	440	425	220	36	...22.88.02	350	100	300	100	100	150	40

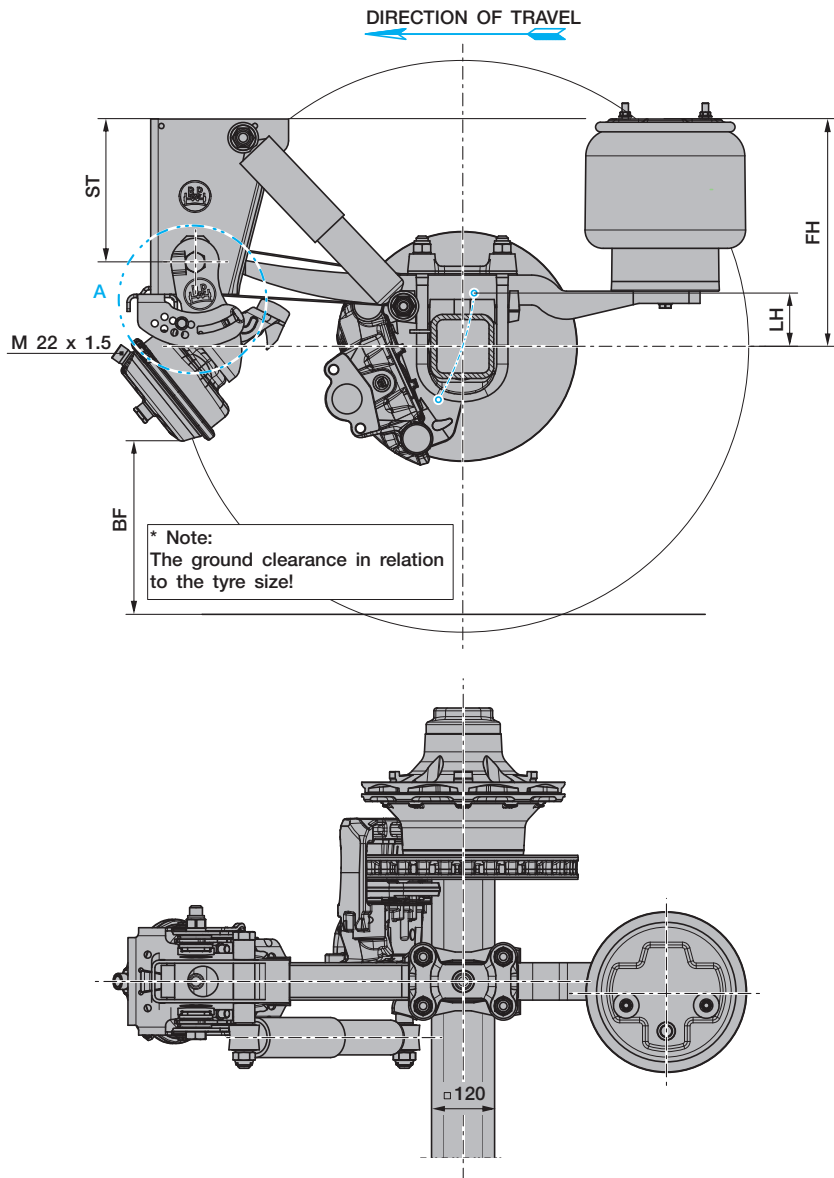
<sup>1)</sup> Lifting heights acc. to TD1242.0  
<sup>2)</sup> The packer is not included in supplied package.

Axle type	Track SP	Spring centre FM	Steering pivot centre LBM	Air bag centre BM V = 80	Tyres recommended
SHBFH..LL 9010	2040	980	1395	820	385/65 R22.5
	2095	1080		920	
	2140	1080		920	385/55 R22.5
SHSFH..LL 9010	2040	980	1395	820	385/65 R22.5
	2095	1080		920	
	2140	1080		920	385/55 R22.5
SHSFH..LL 10110	2040	1080	1395	920	425/65 R22.5
	2095	1080		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 TE1188.0 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 an axle load ratio - rigid axle to steering axle - of 1:1, in suspension units with a lifting axle and when using central lubrication systems, the steering axle must be equipped with a steering damper.

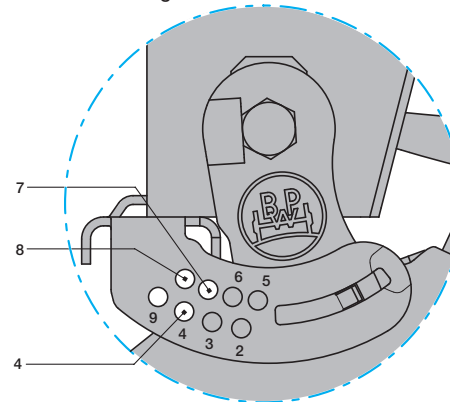
Trailing arm		Steering tie rod position	Steering damper parts kit	Drawing
L1	L2			
500	380	312 / 171 (up to 20° SA)	05.872.00.69.0	04.00.568302
500	380	312 / 186 (over 20° SA)	05.872.00.69.0	04.00.568357



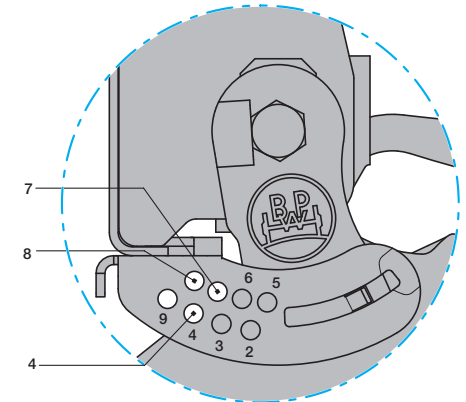
Suspensions to drawing	Adjustable ride height FH		min. lifting stroke LH	Hanger bracket height ST	Ground clearance BF <sup>1)</sup>		Position lift stop no.	BPW no. 05.828...		
	for axle units	min. FH with axle raised			Version A <sup>2)</sup>	Version B <sup>2)</sup>		Hanger bracket <sup>3)</sup>		Channel cross member
								Version A <sup>2)</sup>	Version B <sup>2)</sup>	Version A <sup>2)</sup>
Sheet 1 + 1a, Sheet 2 + 2a, Sheet 2b + 2c	400 - 430	430	100	184	419	409	8			
	430 - 470	460	100	268	358	348	7	...31.81.0	...32.10.0	...31.82.0
	460 - 510	490	100	268	395	385	8			
	510 - 565	540	100	350	361	351	4	...32.12.0	...32.11.0	---

<sup>1)</sup> Ground clearance in relation to the set minimum ride height with the axle raised.  
\* Tyre Tyre: 385/65 R 22.5 (r<sub>stat</sub> = 496)  
In the case of smaller tyres, it is necessary to check whether the doublesided axle lift can be used, according to the application.  
<sup>2)</sup> Version A for 9 t and 10 t single tyre fitment, version B for 10 t twin tyre fitment  
<sup>3)</sup> Lifting device for bolt-on bracket on demand.

Detail A  
Version with hanger bracket

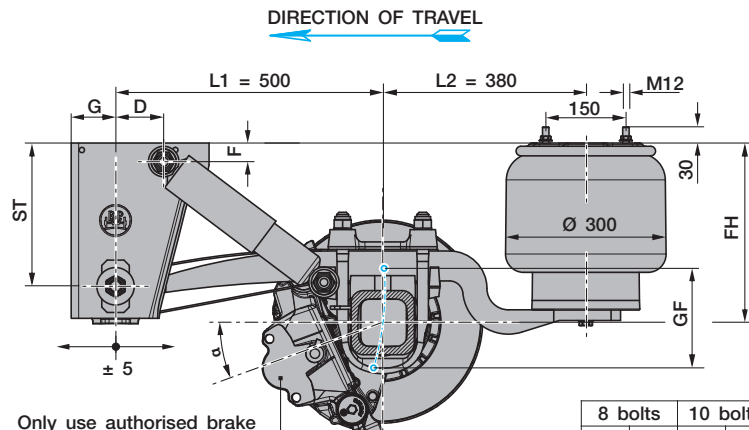


Detail A  
Version with channel cross member



- › In the lifting and lowering version, the total spring travel must be limited by a shutoff valve.
- › Minimum air pressure for lifting the axle approx. 6 bar.
- › 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).

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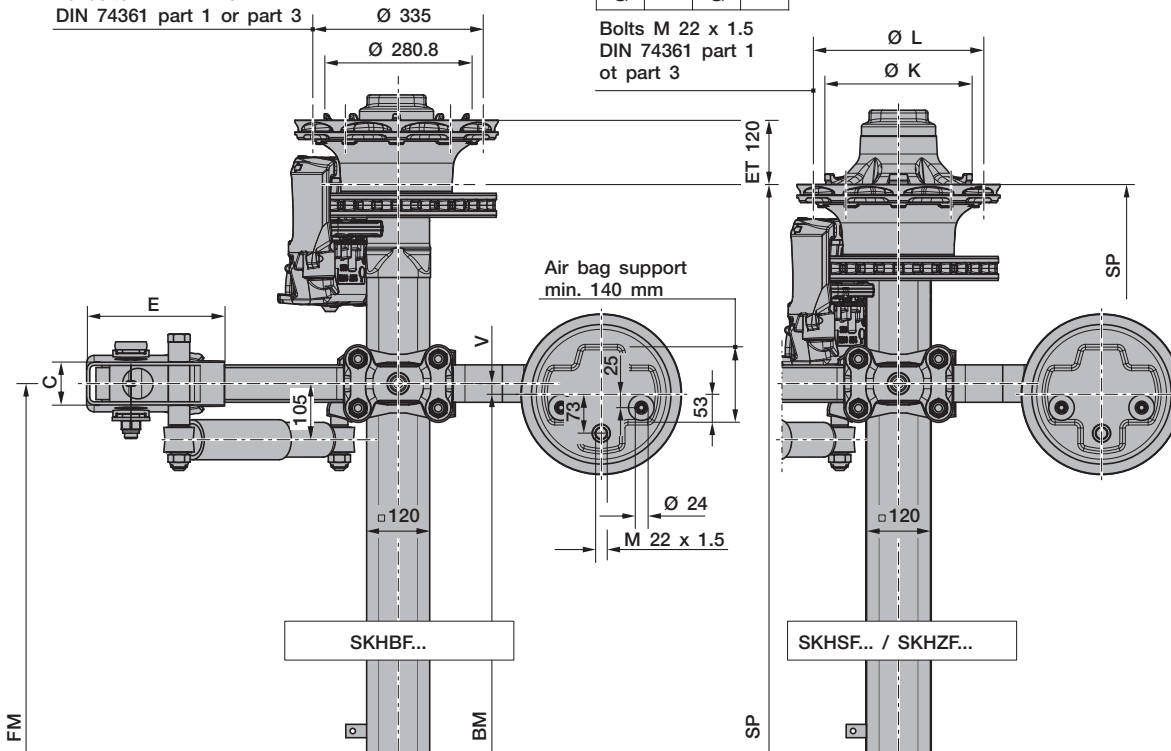


Only use authorised brake cylinders with internal seal max. Ø 191 mm

8 bolts		10 bolts	
K	L	K	L
Ø 220.8	Ø 275	Ø 280.8	Ø 335

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

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



Line	Series	Adjustable ride height FH					Total spring travel GF <sup>1)</sup>	Air bag type BPW	Shock absorber 02.37...	Hanger bracket				Shock absorber mounting		Brake position α
		for single axles	for axle units	min. FH with axle raised	empty without air	loaded without air				ST	C	E	G	D	F	
1 <sup>2)</sup>	ALMT	245 - 290	255 - 290	285	185	170	190	30K	...22.89.02	184	86	240	83	70	35	20°
2 <sup>2)</sup>	ALMT	270 - 310	280 - 310	310	210	195	220	30	...22.89.02	184	86	240	83	70	35	20°
3	ALMT	280 - 325	290 - 325	320	220	205	190	30K	...22.83.02	268	80	258	83	55	35	20°
4 <sup>2)</sup>	ALM	300 - 340	310 - 340	340	240	225	190	30K	...22.83.02	184	86	240	83	70	35	20°
5	ALMT	305 - 360	315 - 360	345	245	230	220	30	...22.83.02	268	80	258	83	55	35	20°
6	ALM	340 - 390	350 - 390	380	280	265	190	30K	...22.83.02	268	80	258	83	90	35	20°
7	ALM	365 - 420	375 - 420	405	305	290	220	30	...22.83.02	268	80	258	83	90	35	20°

<sup>1)</sup> Lifting heights acc. to TD1242.0

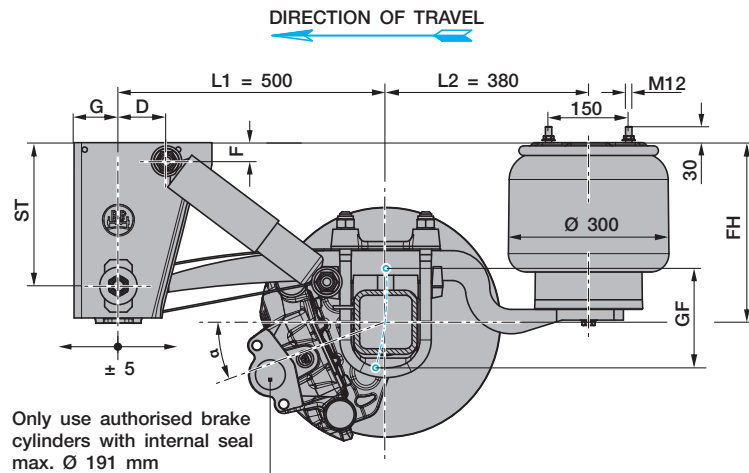
<sup>2)</sup> Only suitable for semi-trailers/Centre axle drawbar trailer

Axle type	Track SP with axle type		Spring centre FM	Air bag centre BM		Tyres recommended	
	...9010	...9008		V = 20	V = 60	10 bolts	8 bolts
SKHBF... 9010	2040	---	1200	1160	1080	385/65 R22.5	---
		---	1300	1260	1180	385/55 R22.5	
	2095	---	1300	1260	1180	385/65 R19.5 <sup>3)</sup>	
	2140	---	1400	1360	1280	435/50 R19.5 <sup>4)</sup> 445/45 R19.5 <sup>4)</sup>	
SKHSF...9010 / 9008	2040	2045	1200	1160	1080	385/65 R22.5 385/55 R22.5	385/65 R19.5 <sup>3)</sup> 435/50 R19.5 <sup>4)</sup> 445/45 R19.5 <sup>4)</sup>
	2095	2100	1300	1260	1180		
	2140	2145	1400	1360	1280		
SKHZF...9010 / 9008	1820	1825	900	860	780	275/70 R22.5	265/70 R19.5
	1880	1885	980	940	860		
	1920	1925	980	940	860		

<sup>3)</sup> The loading rating of the tyre mentioned in the drawing is in no relation to the axle load capacity. It is dependent on the information from the tyre manufacturer.  
<sup>4)</sup> Note the maximum total width.

- > 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 TE1188.0 sheet 15
- > 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).

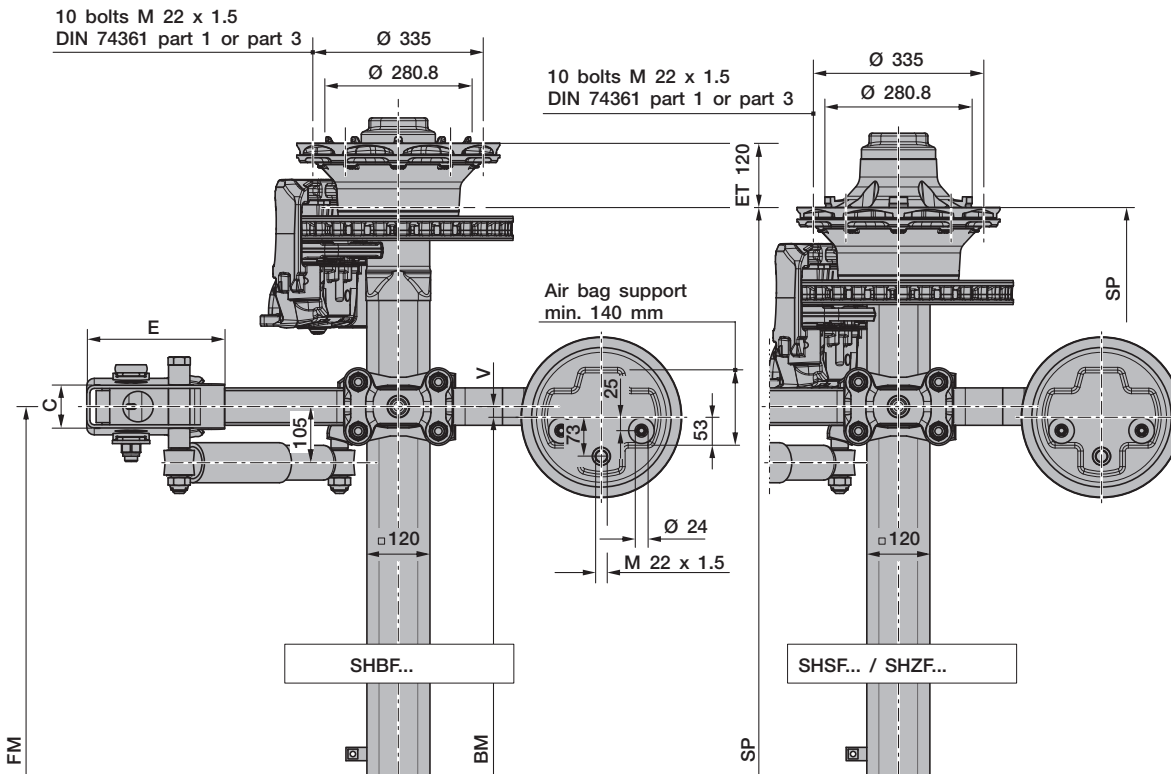
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Line	Series	Adjustable ride height FH					Total spring travel GF <sup>1)</sup>	Air bag type BPW	Shock absorber 02.37...	Hanger bracket				Shock absorber mounting		Brake position α
		for single axles	for axle units	min. FH with axle raised	empty without air	loaded without air				ST	C	E	G	D	F	
1 <sup>2)</sup>	ALMT	245 - 290	255 - 290	285	185	170	190	30K	...22.89.02	184	86	240	83	70	35	20°
2 <sup>2)</sup>	ALMT	270 - 310	280 - 310	310	210	195	220	30	...22.89.02	184	86	240	83	70	35	20°
3	ALMT	280 - 325	290 - 325	320	220	205	190	30K	...22.83.02	268	80	258	83	55	35	20°
4 <sup>2)</sup>	ALM	300 - 340	310 - 340	340	240	225	190	30K	...22.83.02	184	86	240	83	70	35	20°
5	ALMT	305 - 360	315 - 360	345	245	230	220	30	...22.83.02	268	80	258	83	55	35	20°
6	ALM	340 - 390	350 - 390	380	280	265	190	30K	...22.83.02	268	80	258	83	90	35	20°
7	ALM	365 - 420	375 - 420	405	305	290	220	30	...22.83.02	268	80	258	83	90	35	20°

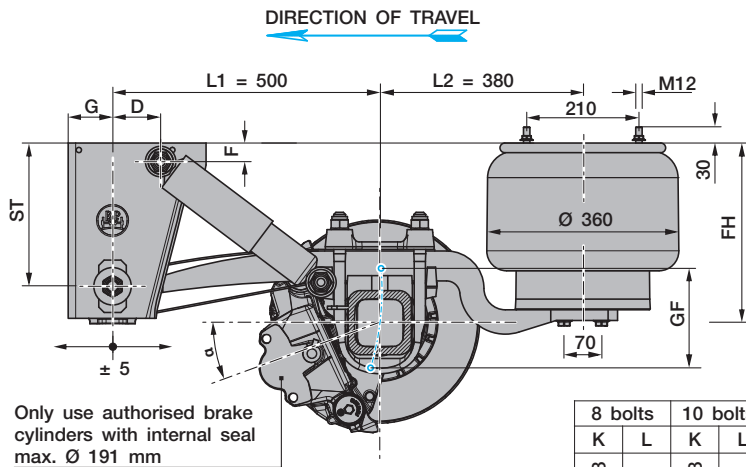
<sup>1)</sup> Lifting heights acc. to TD1242.0

<sup>2)</sup> Only suitable for semi-trailers/Centre axle drawbar trailer



Axle type	Track SP	Spring centre FM	Air bag centre BM		Tyres recommended
			V = 20	V = 60	
SHBF... 9010	2040	1200	1160	1080	385/65 R22.5 385/55 R22.5
	2095	1300	1260	1180	
	2140	1400	1360	1280	
SHSF...9010	2040	1200	1160	1080	385/65 R22.5 385/55 R22.5
	2095	1300	1260	1180	
	2140	1400	1360	1280	
SHZF...9010	1820	900	860	780	275/70 R22.5
	1880	980	---	860	
	1920	980	940	860	

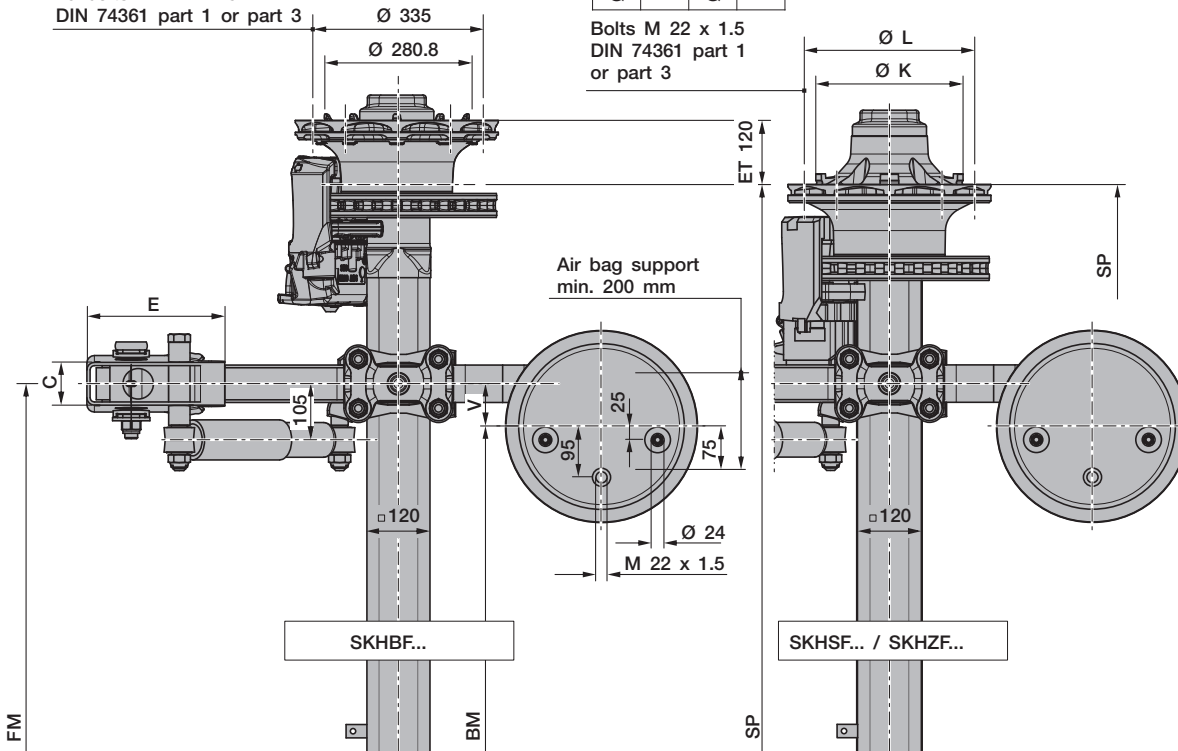
- Max. inclination angle of the semitrailer under full load and lowest adjustable ride height ±1°
- With trailing arm L1 = 500 / L2 = 380, bag pressures acc. to TE1188.0 sheet 15
- The hanger brackets, air bag supports and the frame must be reinforced so that the forces applied can be absorbed (see the current BPW installation instructions).



8 bolts		10 bolts	
K	L	K	L
Ø 220.8	Ø 275	Ø 280.8	Ø 335

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

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



Line	Series	Adjustable ride height FH					Total spring travel GF <sup>1)</sup>	Air bag type BPW	Shock absorber 02.37...	Hanger bracket				Shock absorber mounting		Brake position $\alpha$
		for single axles	for axle units	min. FH with axle raised	empty without air	loaded without air				ST	C	E	G	D	F	
1 <sup>2)</sup>	ALMT	245 - 290	255 - 290	285	185	170	190	36K	...22.89.02	184	86	240	83	70	35	20°
2 <sup>2)</sup>	ALMT	270 - 310	280 - 310	310	210	195	220	36	...22.89.02	184	86	240	83	70	35	20°
3	ALMT	280 - 325	290 - 325	320	220	205	190	36K	...22.83.02	268	80	258	83	55	35	20°
4 <sup>2)</sup>	ALM	300 - 340	310 - 340	340	240	225	190	36K	...22.83.02	184	86	240	83	70	35	20°
5	ALMT	305 - 360	315 - 360	345	245	230	220	36	...22.83.02	268	80	258	83	55	35	20°
6	ALM	340 - 390	350 - 390	380	280	265	190	36K	...22.83.02	268	80	258	83	90	35	20°
7	ALM	365 - 420	375 - 420	405	305	290	220	36	...22.83.02	268	80	258	83	90	35	20°

<sup>1)</sup> Lifting heights acc. to TD1242.0

<sup>2)</sup> Only suitable for semi-trailers/Centre axle drawbar trailer

Axle type	Track SP with axle type		Spring centre FM	Air bag centre BM V = 80	Tyres recommended	
	...9010	...9008			10 bolts	8 bolts
SKHBF... 9010	2040	---	1200	1040	385/65 R22.5	---
		---	1300	1140	385/55 R22.5	
	2095	---	1300	1140	385/65 R19.5 <sup>3)</sup>	
	2140	---	1400	1240	435/50 R19.5 <sup>4)</sup> 445/45 R19.5 <sup>4)</sup>	
SKHSF...9010 / 9008	2040	2045	1200	1040	385/65 R22.5 385/55 R22.5	385/65 R19.5 <sup>3)</sup> 435/50 R19.5 <sup>4)</sup> 445/45 R19.5 <sup>4)</sup>
	2095	2100	1300	1140		
	2140	2145	1400	1240		
SKHZF...9010 / 9008	1820	1825	900	740	275/70 R22.5	265/70 R19.5
	1880	1885	980	820		
	1920	1925	980	820		

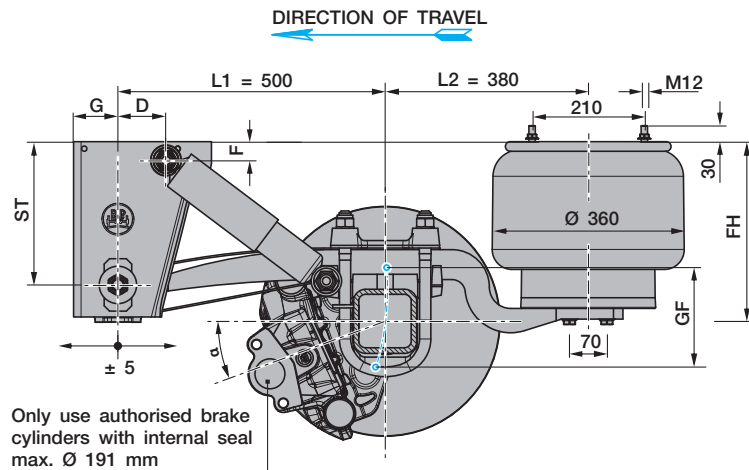
<sup>3)</sup> The loading rating of the tyre mentioned in the drawing is in no relation to the axle load capacity. It is dependent on the information from the tyre manufacturer.

<sup>4)</sup> Note the maximum total width.

- 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 TE1188.0 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).

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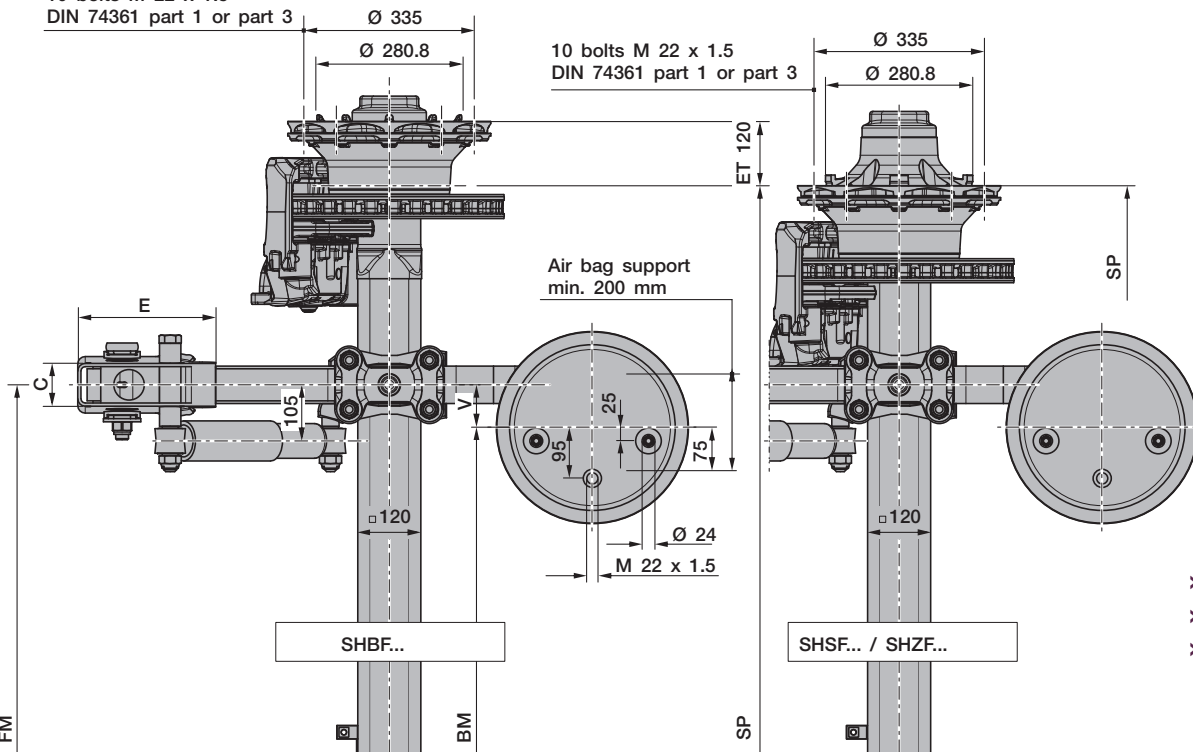
Line	Series	Adjustable ride height FH					Total spring travel GF <sup>1)</sup>	Air bag type BPW	Shock absorber 02.37...	Hanger bracket				Shock absorber mounting		Brake position α
		for single axles	for axle units	min. FH with axle raised	empty without air	loaded without air				ST	C	E	G	D	F	
1 <sup>2)</sup>	ALMT	245 - 290	255 - 290	285	185	170	190	36K	...22.89.02	184	86	240	83	70	35	20°
2 <sup>2)</sup>	ALMT	270 - 310	280 - 310	310	210	195	220	36	...22.89.02	184	86	240	83	70	35	20°
3	ALMT	280 - 325	290 - 325	320	220	205	190	36K	...22.83.02	268	80	258	83	55	35	20°
4 <sup>2)</sup>	ALM	300 - 340	310 - 340	340	240	225	190	36K	...22.83.02	184	86	240	83	70	35	20°
5	ALMT	305 - 360	315 - 360	345	245	230	220	36	...22.83.02	268	80	258	83	55	35	20°
6	ALM	340 - 390	350 - 390	380	280	265	190	36K	...22.83.02	268	80	258	83	90	35	20°
7	ALM	365 - 420	375 - 420	405	305	290	220	36	...22.83.02	268	80	258	83	90	35	20°

<sup>1)</sup> Lifting heights acc. to TD1242.0

<sup>2)</sup> Only suitable for semi-trailers/Centre axle drawbar trailer

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

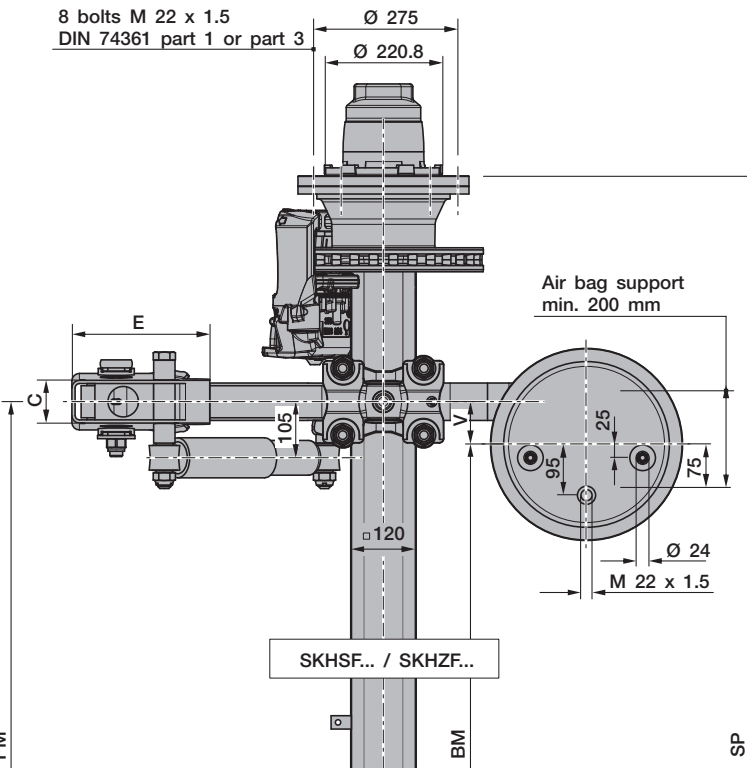
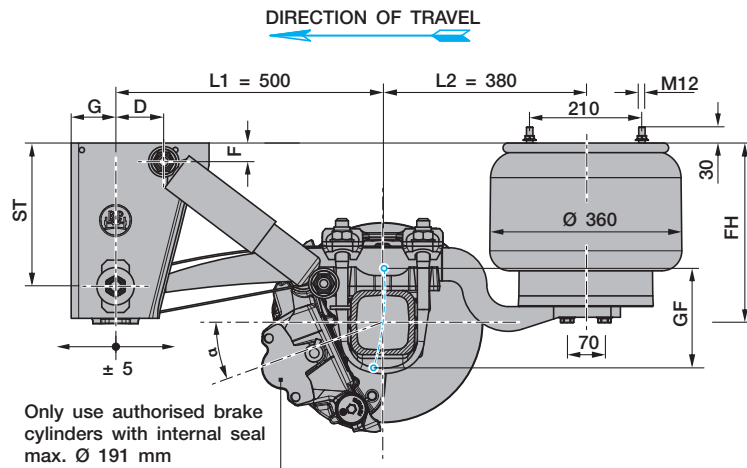
10 bolts M 22 x 1.5  
DIN 74361 part 1 or part 3



Axle type	Track SP	Spring centre FM	Air bag centre BM V = 80	Tyres recommended
SHBF... 9010	2040	1200	1040	385/65 R22.5 385/55 R22.5
	2095	1300	1140	
	2140	1400	1240	
SHSF...9010	2040	1200	1040	385/65 R22.5 385/55 R22.5
	2095	1300	1140	
	2140	1400	1240	
SHZF...9010	1820	900	740	275/70 R22.5
	1880	980	820	
	1920	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 TE1188.0 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).

Rev. 1 (2) 30.01.2019  
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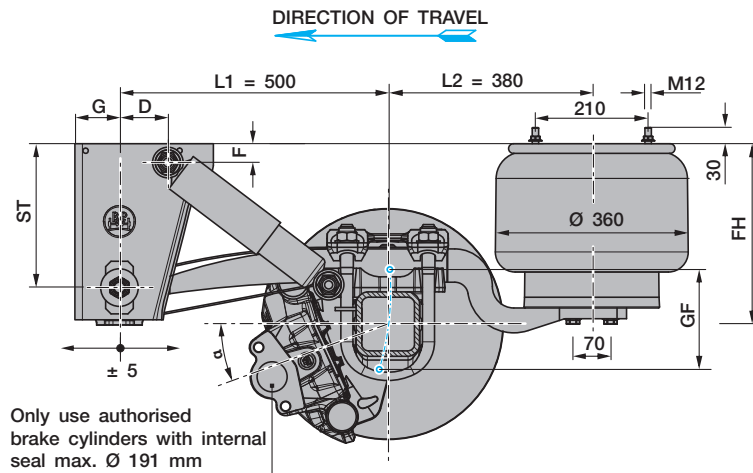
Line	Series	Adjustable ride height FH					Total spring travel GF <sup>1)</sup>	Air bag type BPW	Shock absorber 02.37...	Hanger bracket				Shock absorber mounting		Brake position $\alpha$
		for single axles	for axle units	min. FH with axle raised	empty without air	loaded without air				ST	C	E	G	D	F	
1 <sup>2)</sup>	ALMT	245 - 290	255 - 290	285	185	170	190	36K	...22.89.02	184	86	240	83	70	35	20°
2 <sup>2)</sup>	ALMT	270 - 310	280 - 310	310	210	195	220	36	...22.89.02	184	86	240	83	70	35	20°
3	ALMT	280 - 325	290 - 325	320	220	205	190	36K	...22.83.02	268	80	258	83	55	35	20°
4 <sup>2)</sup>	ALM	300 - 340	310 - 340	340	240	225	190	36K	...22.83.02	184	86	240	83	70	35	20°
5	ALMT	305 - 360	315 - 360	345	245	230	220	36	...22.83.02	268	80	258	83	55	35	20°
6	ALM	340 - 390	350 - 390	380	280	265	190	36K	...22.83.02	268	80	258	83	90	35	20°
7	ALM	365 - 420	375 - 420	405	305	290	220	36	...22.83.02	268	80	258	83	90	35	20°

<sup>1)</sup> Lifting heights acc. to TD1242.0  
<sup>2)</sup> Only suitable for semi-trailers/Centre axle drawbar trailer

Axle type	Track SP	Spring centre FM	Air bag centre BM V = 80	Tyres recommended	
SKHSF...10008	2040	1200	1040	445/65 R19.5	
		1300	1140		
SKHZF...10008 <sup>3)</sup>	1820	900	740	265/70 R19.5	
		1880	980		820
		1970	1100		940

<sup>3)</sup> Only possible with ALM

- 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 TE1188.0 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).

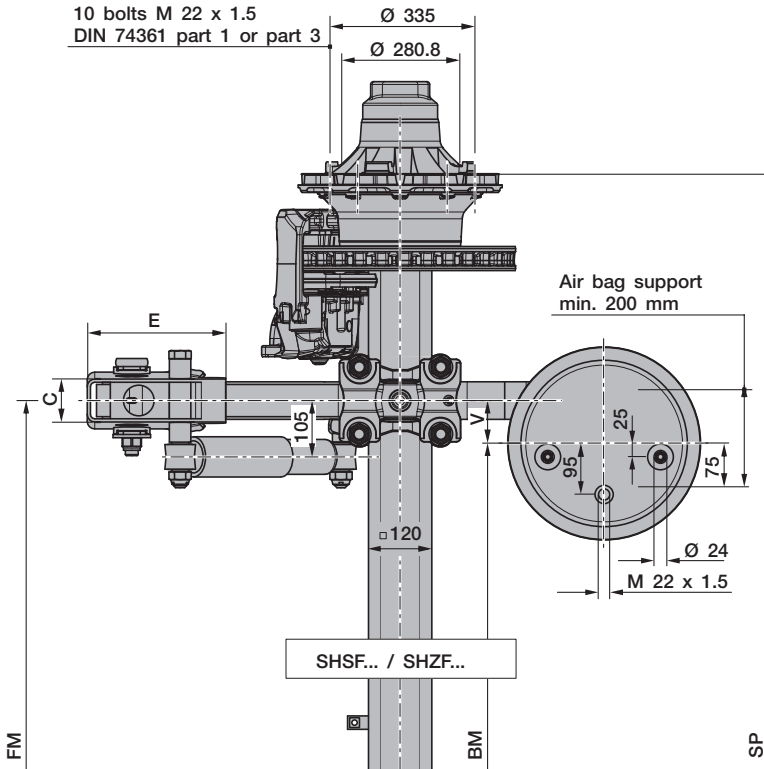


Line	Series	Adjustable ride height FH					Total spring travel GF <sup>1)</sup>	Air bag type BPW	Shock absorber 02.37...	Hanger bracket				Shock absorber mounting		Brake position α
		for single axles	for axle units	min. FH with axle raised	empty without air	loaded without air				ST	C	E	G	D	F	
1 <sup>2)</sup>	ALMT	245 - 290	255 - 290	285	185	170	190	36K	...22.89.02	184	86	240	83	70	35	20°
2 <sup>2)</sup>	ALMT	270 - 310	280 - 310	310	210	195	220	36	...22.89.02	184	86	240	83	70	35	20°
3	ALMT	280 - 325	290 - 325	320	220	205	190	36K	...22.83.02	268	80	258	83	55	35	20°
4 <sup>2)</sup>	ALM	300 - 340	310 - 340	340	240	225	190	36K	...22.83.02	184	86	240	83	70	35	20°
5	ALMT	305 - 360	315 - 360	345	245	230	220	36	...22.83.02	268	80	258	83	55	35	20°
6	ALM	340 - 390	350 - 390	380	280	265	190	36K	...22.83.02	268	80	258	83	90	35	20°
7	ALM	365 - 420	375 - 420	405	305	290	220	36	...22.83.02	268	80	258	83	90	35	20°

<sup>1)</sup> Lifting heights acc. to TD1242.0

<sup>2)</sup> Only suitable for semi-trailers/Centre axle drawbar trailer

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

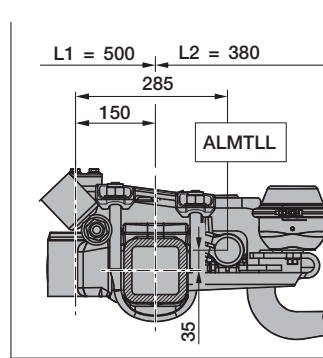
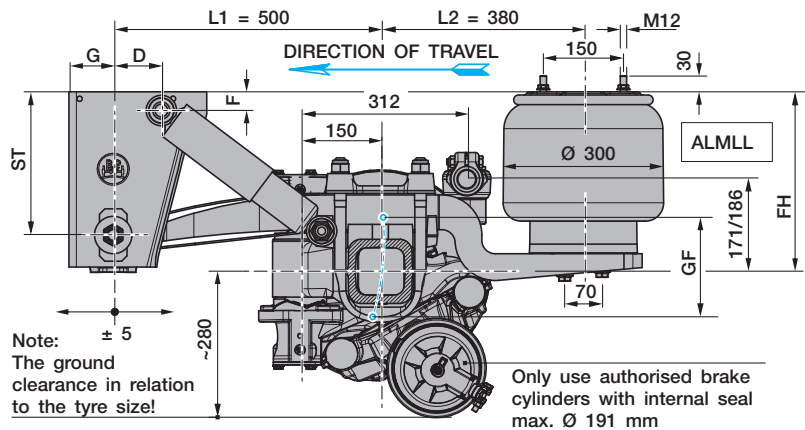


Axle type	Track SP	Spring centre FM	Air bag centre BM V = 80	Tyres recommended
SHSF...10110	2040	1200	1040	425/65 R22.5
		1300	1140	
SHZF...10110 <sup>3)</sup>	1820	900	740	275/70 R22.5
		1880	980	

<sup>3)</sup> Only possible with ALM

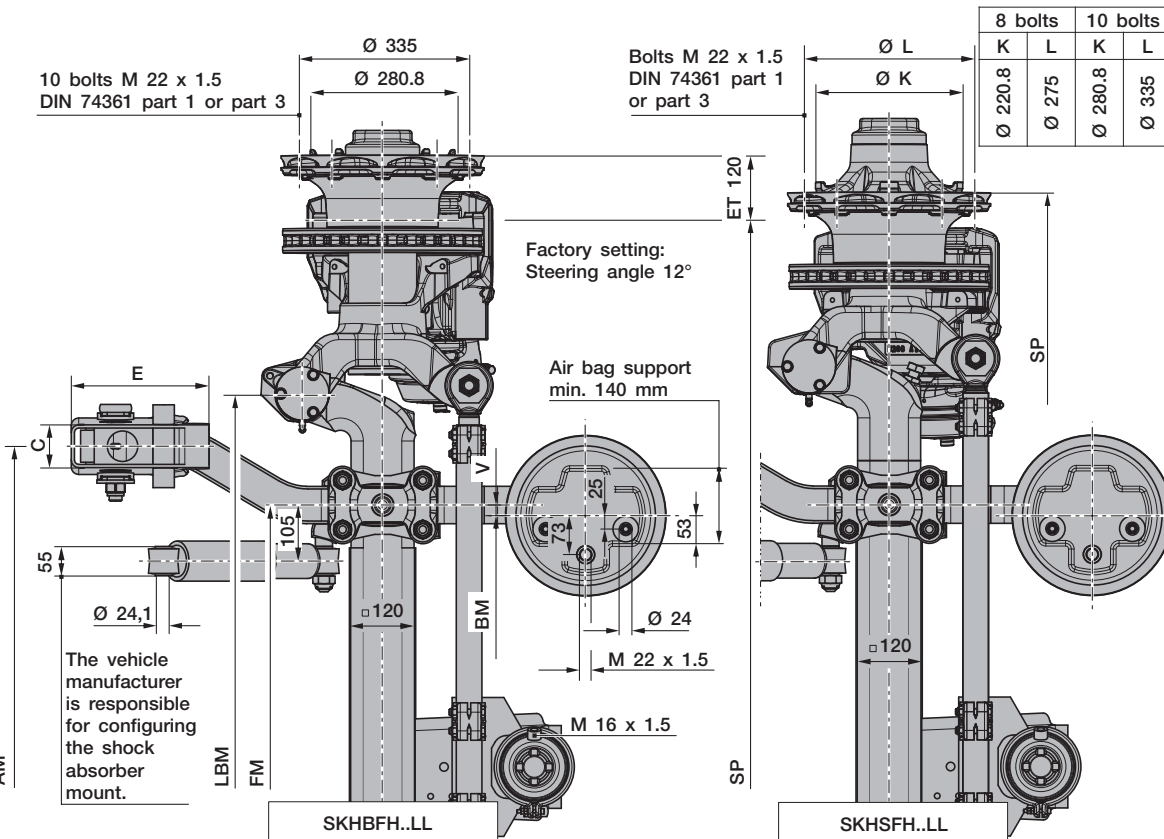
- Max. inclination angle of the semitrailer under full load and lowest adjustable ride height ±1°
- With trailing arm L1 = 500 / L2 = 380, bag pressures acc. to TE1188.0 Sheet 11
- The hanger brackets, air bag supports and the frame must be reinforced so that the forces applied can be absorbed (see the current BPW installation instructions).

Rev. 1	(2)	30.01.2019
Subject to change without notice.		



Line	Series	Adjustable ride height FH				Total spring travel GF <sup>1)</sup>	Air bag type BPW	Shock absorber 02.37...	Hanger bracket				Shock absorber mounting	
		for axle units	min. FH with axle raised	empty without air	loaded without air				ST	C	E	G	D	F
1 <sup>2)</sup>	ALMTLL	255 - 290	285	185	170	190	30K	...22.89.02	184	86	240	83	70	35
2 <sup>2)</sup>	ALMTLL	280 - 310	310	210	195	220	30	...22.89.02	184	86	240	83	70	35
5	ALMTLL	315 - 360	345	245	230	220	30	...22.83.02	268	80	258	83	55	35
6	ALMMLL	350 - 390	380	280	265	190	30K	...22.83.02	268	80	258	83	90	35
7	ALMMLL	375 - 420	405	305	290	220	30	...22.83.02	268	80	258	83	90	35

<sup>1)</sup> Lifting heights acc. to TD1242.0  
<sup>2)</sup> Only suitable for semi-trailers/Centre axle drawbar trailer



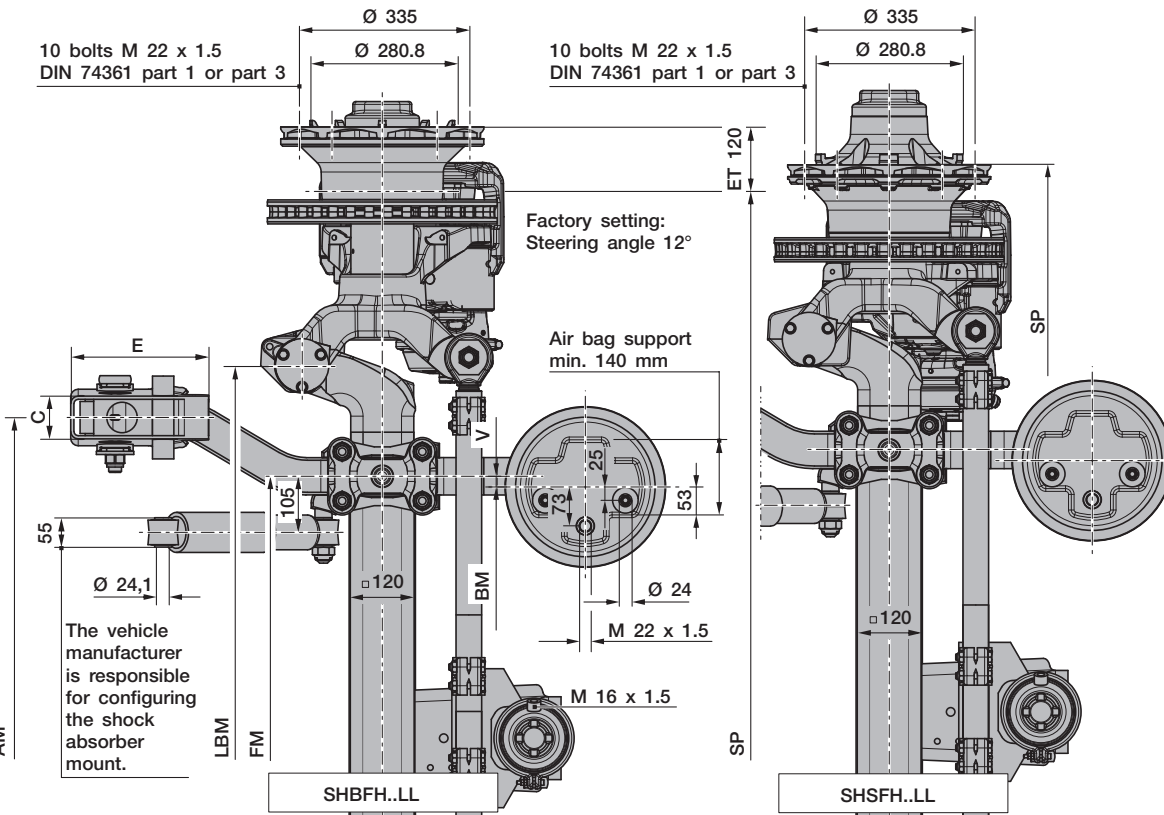
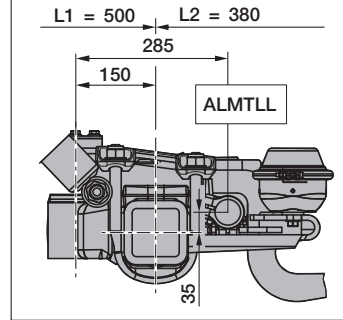
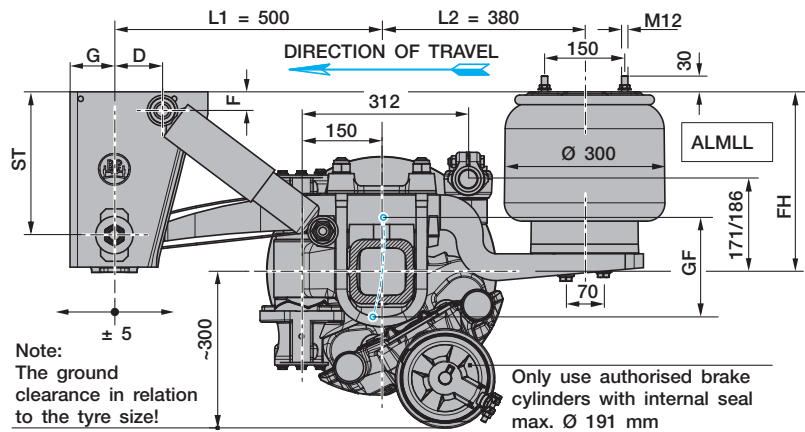
Axle type	Track SP with axle type		Spring centre FM	Hanger bracket centre AM	Steering pivot centre LBM	Air bag centre BM		Tyres recommended	
	...9010	...9008				V = 20	V = 60	10 bolts	8 bolts
SKHBFH..LL 9010	2040	---	980	1200	1395	940	860	385/65 R22.5 385/55 R22.5 385/65 R19.5 <sup>3)</sup>	---
	2095	---	1080	1300		1040	960		
	2140	---	1080	1300		1495	1040		
SKHSFH..LL 9010 / 9008	2040	2045	980	1200	1395	940	860	385/65 R22.5 385/55 R22.5	385/65 R19.5 <sup>3)</sup>
	2095	2100	1080	1300		1040	960		
	2140	2145	1080	1300		1495	1040		

<sup>3)</sup> The loading rating of the tyre mentioned in the drawing is in no relation to the axle load capacity. It is dependent on the information from the tyre manufacturer.

- 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 TE1188.0 sheet 15
- 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 an axle load ratio - rigid axle to steering axle - of 1:1, in suspension units with a lifting axle and when using central lubricatin systems, the steering axle must be equipped wit a steering damper.

Series	Steering tie rod position	Steering damper parts kit	Drawing
ALMMLL	312 / 171 (up to 20° SA)	05.872.00.69.0	04.00.568302
ALMMLL	312 / 186 (over 20° SA)	05.872.00.69.0	04.00.568357
ALMTLL	285 / 35	05.872.00.70.0	04.00.568320



Line	Series	Adjustable ride height FH				Total spring travel GF <sup>1)</sup>	Air bag type BPW	Shock absorber 02.37...	Hanger bracket				Shock absorber mounting	
		for axle units	min. FH with axle raised	empty without air	loaded without air				ST	C	E	G	D	F
1 <sup>2)</sup>	ALMTLL	255 - 290	285	185	170	190	30K	...22.89.02	184	86	240	83	70	35
2 <sup>2)</sup>	ALMTLL	280 - 310	310	210	195	220	30	...22.89.02	184	86	240	83	70	35
5	ALMTLL	315 - 360	345	245	230	220	30	...22.83.02	268	80	258	83	55	35
6	ALMML	350 - 390	380	280	265	190	30K	...22.83.02	268	80	258	83	90	35
7	ALMML	375 - 420	405	305	290	220	30	...22.83.02	268	80	258	83	90	35

<sup>1)</sup> Lifting heights acc. to TD1242.0

<sup>2)</sup> Only suitable for semi-trailers/Centre axle drawbar trailer

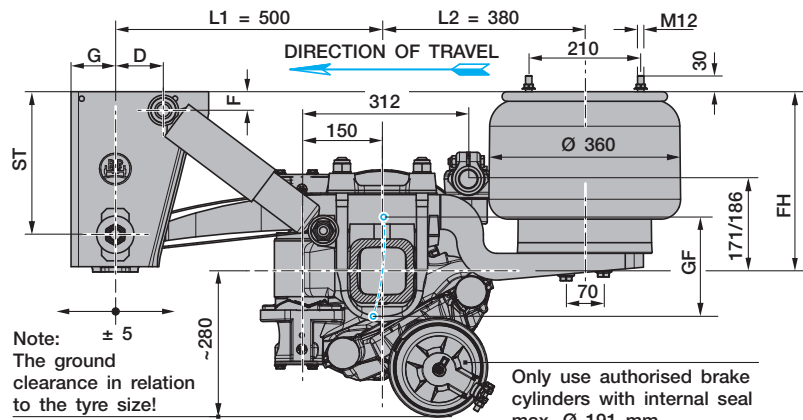
Axle type	Track SP	Spring centre FM	Hanger bracket centre AM	Steering pivot centre LBM	Air bag centre BM		Tyres recommended
					V = 20	V = 60	
SHBFH..LL 9010	2040	980	1200	1395	940	860	385/65 R22.5
					1040	960	
					1040	960	
SHSFH..LL 9010	2040	980	1200	1395	940	860	385/65 R22.5
					1040	960	
					1040	960	

- > 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 TE1188.0 sheet 15
- > 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 an axle load ratio - rigid axle to steering axle - of 1:1, in suspension units with a lifting axle and when using central lubrication systems, the steering axle must be equipped with a steering damper.

Series	Steering tie rod position	Steering damper parts kit	Drawing
ALMML	312 / 171 (up to 20° SA)	05.872.00.69.0	04.00.568302
ALMML	312 / 186 (over 20° SA)	05.872.00.69.0	04.00.568357
ALMTLL	285 / 35	05.872.00.70.0	04.00.568320

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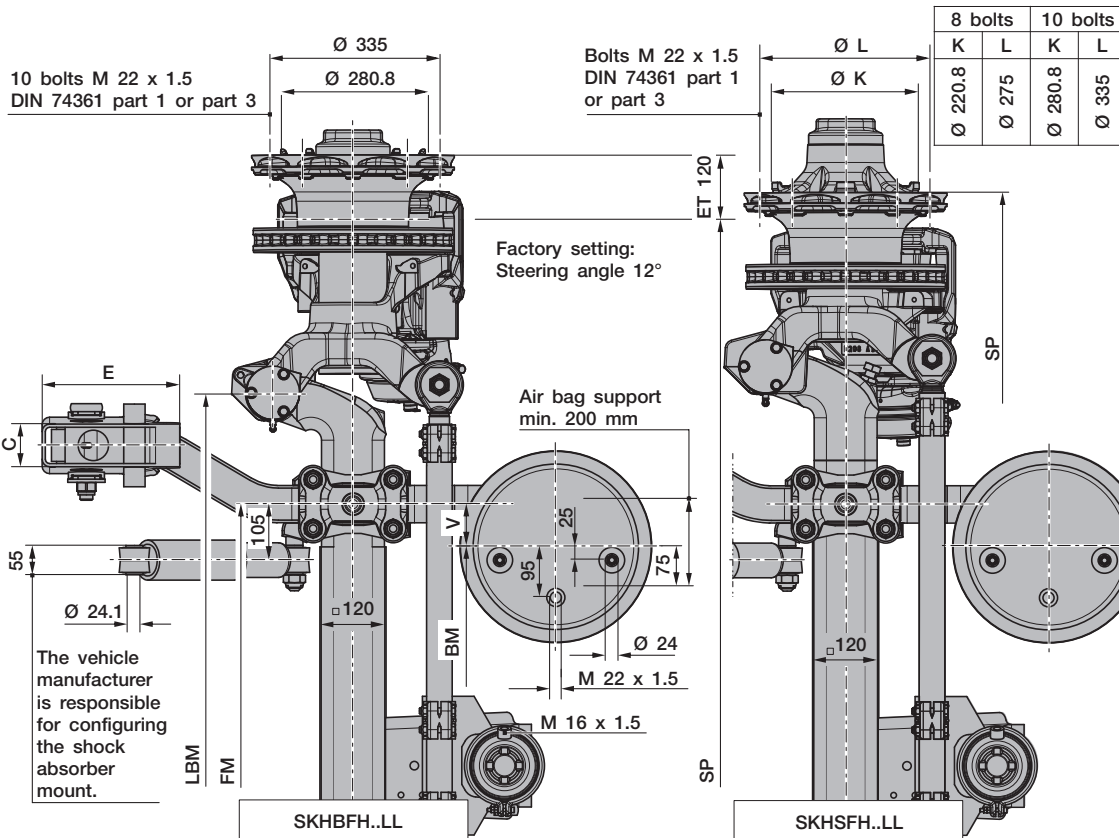


Note:  
The ground clearance in relation to the tyre size!

Only use authorised brake cylinders with internal seal max. Ø 191 mm

Line	Series	Adjustable ride height FH				Total spring travel GF <sup>1)</sup>	Air bag type BPW	Shock absorber 02.37...	Hanger bracket				Shock absorber mounting	
		for axle units	min. FH with axle raised	empty without air	loaded without air				ST	C	E	G	D	F
6	ALMLL	350 - 390	380	280	265	190	36K	...22.83.02	268	80	258	83	90	35
7	ALMLL	375 - 420	405	305	290	220	36	...22.83.02	268	80	258	83	90	35

<sup>1)</sup> Lifting heights acc. to TD1242.0



Axle type	Track SP with axle type		Spring centre FM	Hanger bracket centre AM	Steering pivot centre LBM	Air bag centre BM V = 80	Tyres recommended	
	... 9010	... 9008					10 bolts	8 bolts
SKHBFH..LL 9010	2040	---	980	1200	1395	820	385/65 R22.5	---
	2095	---	1080	1300	1450	920	385/55 R22.5	---
	2140	---	1080	1300	1495	920	385/65 R19.5 <sup>2)</sup>	---
SKHSFH..LL 9010 / 9008	2040	2045	980	1200	1395	820	385/65 R22.5	385/65 R19.5 <sup>2)</sup>
	2095	2100	1080	1300	1450	920	385/55 R22.5	
	2140	2145	1080	1300	1495	920		

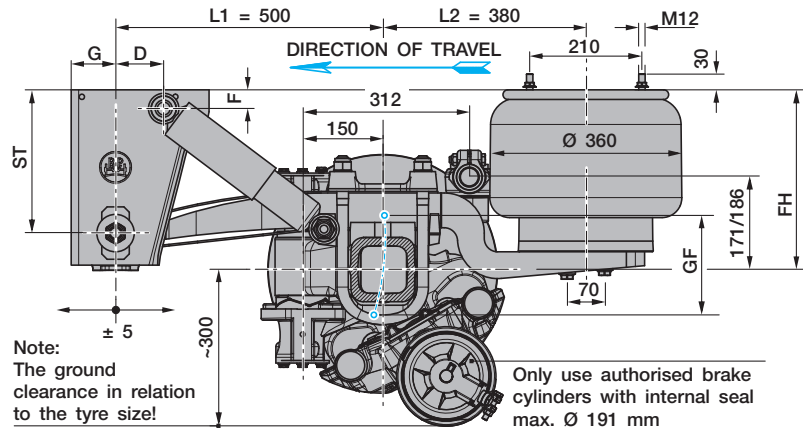
<sup>2)</sup> The loading rating of the tyre mentioned in the drawing is in no relation to the axle load capacity. It is dependent on the information from the tyre manufacturer.

- > 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 TE1188.0 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 an axle load ratio - rigid axle to steering axle - of 1:1, in suspension units with a lifting axle and when using central lubrication systems, the steering axle must be equipped with a steering damper.

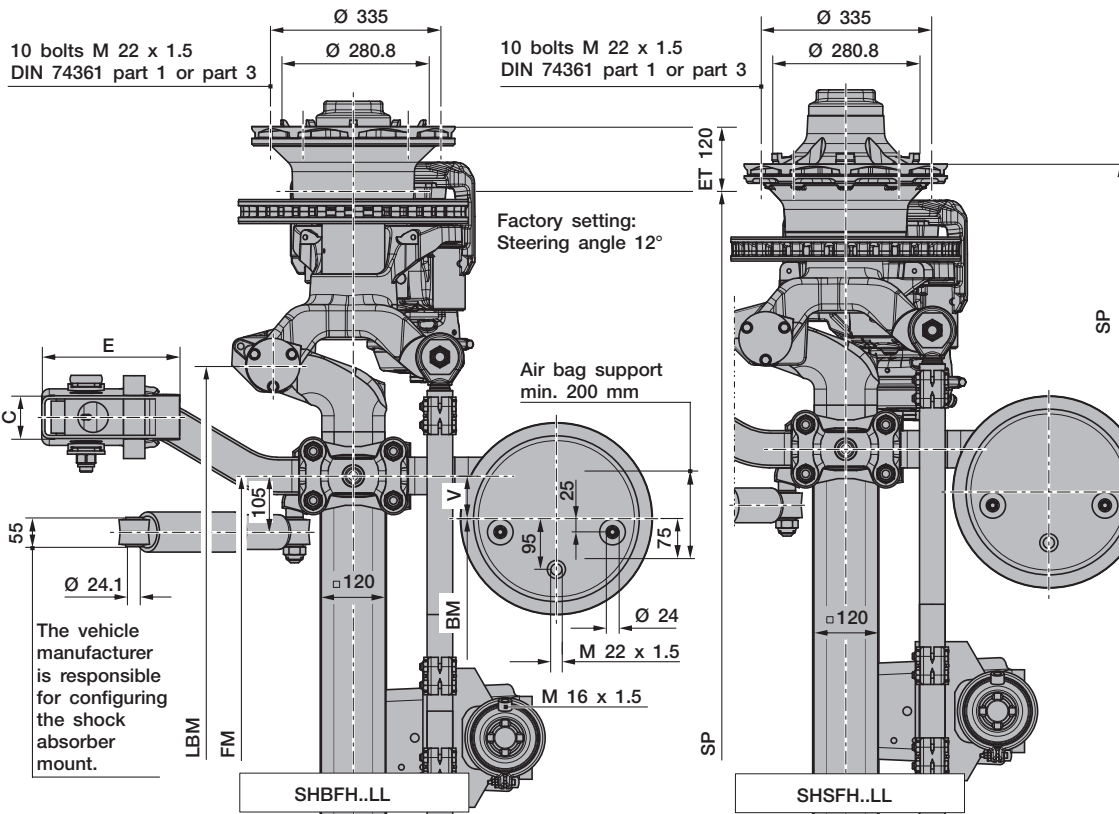
Series	Steering tie rod position	Steering damper parts kit	Drawing
ALMLL	312 / 171 (up to 20° SA)	05.872.00.69.0	04.00.568302
ALMLL	312 / 186 (over 20° SA)	05.872.00.69.0	04.00.568357

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Subject to change without notice.



Line	Series	Adjustable ride height FH				Total spring travel GF <sup>1)</sup>	Air bag type BPW	Shock absorber 02.37...	Hanger bracket				Shock absorber mounting	
		for axle units	min. FH with axle raised	empty without air	loaded without air				ST	C	E	G	D	F
6	ALMLL	350 - 390	380	280	265	190	36K	...22.83.02	268	80	258	83	90	35
7	ALMLL	375 - 420	405	305	290	220	36	...22.83.02	268	80	258	83	90	35

<sup>1)</sup> Lifting heights acc. to TD1242.0

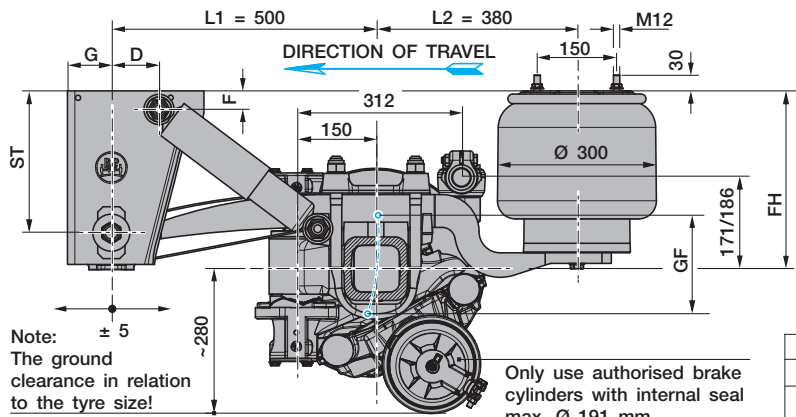


Axle type	Track SP	Spring centre FM	Hanger bracket centre AM	Steering pivot centre LBM	Air bag centre BM V = 80	Tyres recommended
SHBFH..LL 9010	2040	980	1200	1395	820	385/65 R22.5
		1080	1300		920	
	2095	1080	1300	1450	920	385/55 R22.5
SHSFH..LL 9010	2140	1080	1300	1495	920	
	2040	980	1200	1395	820	385/65 R22.5
		1080	1300		920	
SHSFH..LL 10110	2095	1080	1300	1450	920	385/55 R22.5
	2040	1080	1300	1395	920	425/65 R22.5
	2095	1080	1300	1450	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 TE1188.0 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 an axle load ratio - rigid axle to steering axle - of 1:1, in suspension units with a lifting axle and when using central lubrication systems, the steering axle must be equipped with a steering damper.

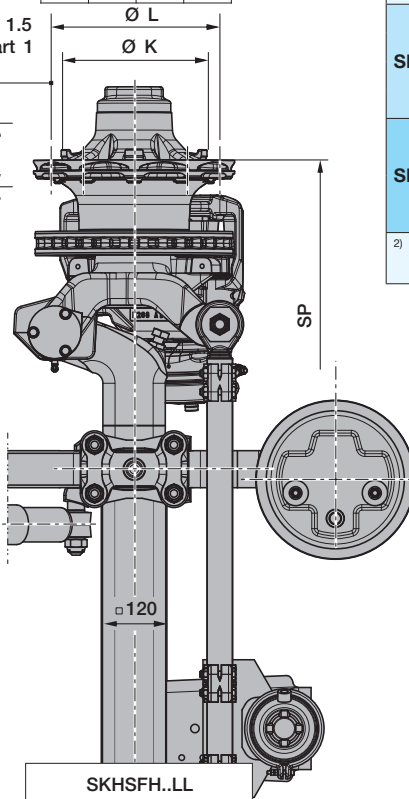
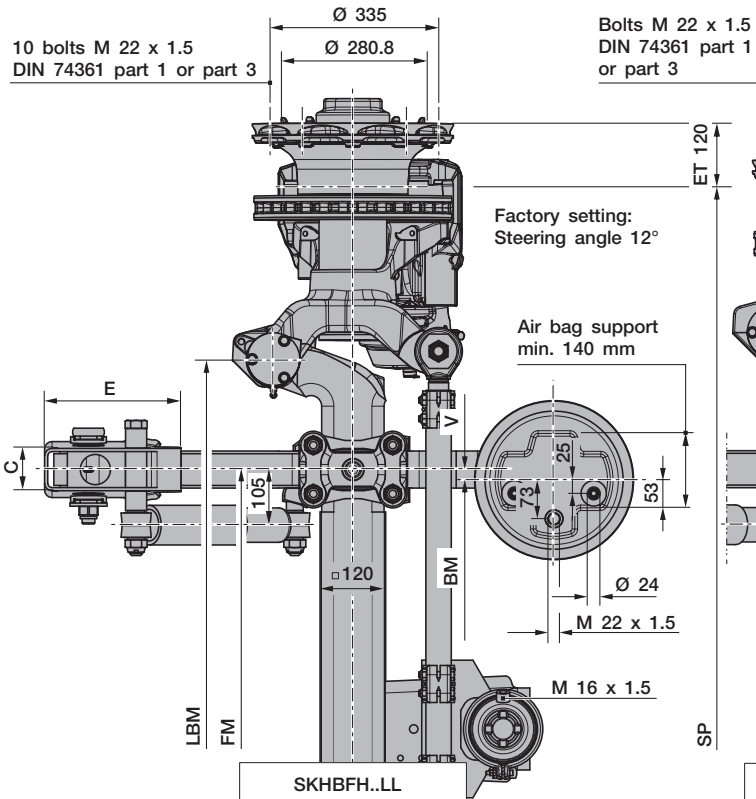
Series	Steering tie rod position	Steering damper parts kit	Drawing
ALMLL	312 / 171 (up to 20° SA)	05.872.00.69.0	04.00.568302
ALMLL	312 / 186 (over 20° SA)	05.872.00.69.0	04.00.568357



Note:  
The ground clearance in relation to the tyre size!

Only use authorised brake cylinders with internal seal max. Ø 191 mm

8 bolts		10 bolts	
K	L	K	L
Ø 220.8	Ø 275	Ø 280.8	Ø 335



Line	Series	Adjustable ride height FH				Total spring travel GF <sup>1)</sup>	Air bag type BPW	Shock absorber 02.37...	Hanger bracket				Shock absorber mounting	
		for axle units	min. FH with axle raised	empty without air	loaded without air				ST	C	E	G	D	F
6	ALMLL	350 - 390	380	280	265	190	30K	...22.83.02	268	80	258	83	90	35
7	ALMLL	375 - 420	405	305	290	220	30	...22.83.02	268	80	258	83	90	35

<sup>1)</sup> Lifting heights acc. to TD1242.0

Axle type	Track SP with axle type		Spring centre FM	Steering pivot centre LBM	Air bag centre BM		Tyres recommended	
	...9010	...9008			V = 20	V = 60	10 bolts	8 bolts
SKHBFH..LL 9010	2040	---	980	1395	940	860	385/65 R22.5 385/55 R22.5 385/65 R19.5 <sup>2)</sup>	---
	2095	---	1080		1040	960		
	2140	---	1080		1040	960		
SKHSFH..LL 9010 / 9008	2040	2045	980	1395	940	860	385/65 R22.5 385/55 R22.5	385/65 R19.5 <sup>2)</sup>
	2095	2100	1080		1040	960		
	2140	2145	1080		1040	960		

<sup>2)</sup> The loading rating of the tyre mentioned in the drawing is in no relation to the axle load capacity. It is dependent on the information from the tyre manufacturer.

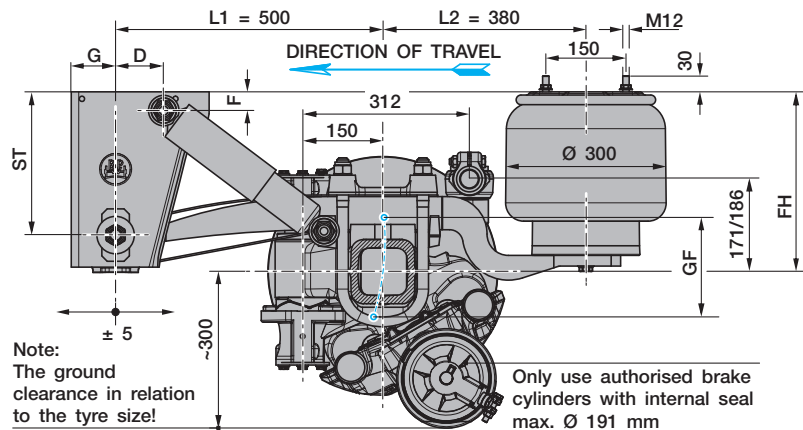
- > Max. inclination angle of the semitrailer under full load and lowest adjustable ride height ±1°
- > With trailing arm L1 = 500 / L2 = 380, bag pressures acc. to TE1188.0 sheet 15
- > The hanger brackets, air bag supports and the frame must be reinforced so that the forces applied can be absorbed (see the current BPW installation instructions).

With an axle load ratio - rigid axle to steering axle - of 1:1, in suspension units with a lifting axle and when using central lubrication systems, the steering axle must be equipped with a steering damper.

Series	Steering tie rod position	Steering damper parts kit	Drawing
ALMLL	312 / 171 (up to 20° SA)	05.872.00.69.0	04.00.568302
ALMLL	312 / 186 (over 20° SA)	05.872.00.69.0	04.00.568357

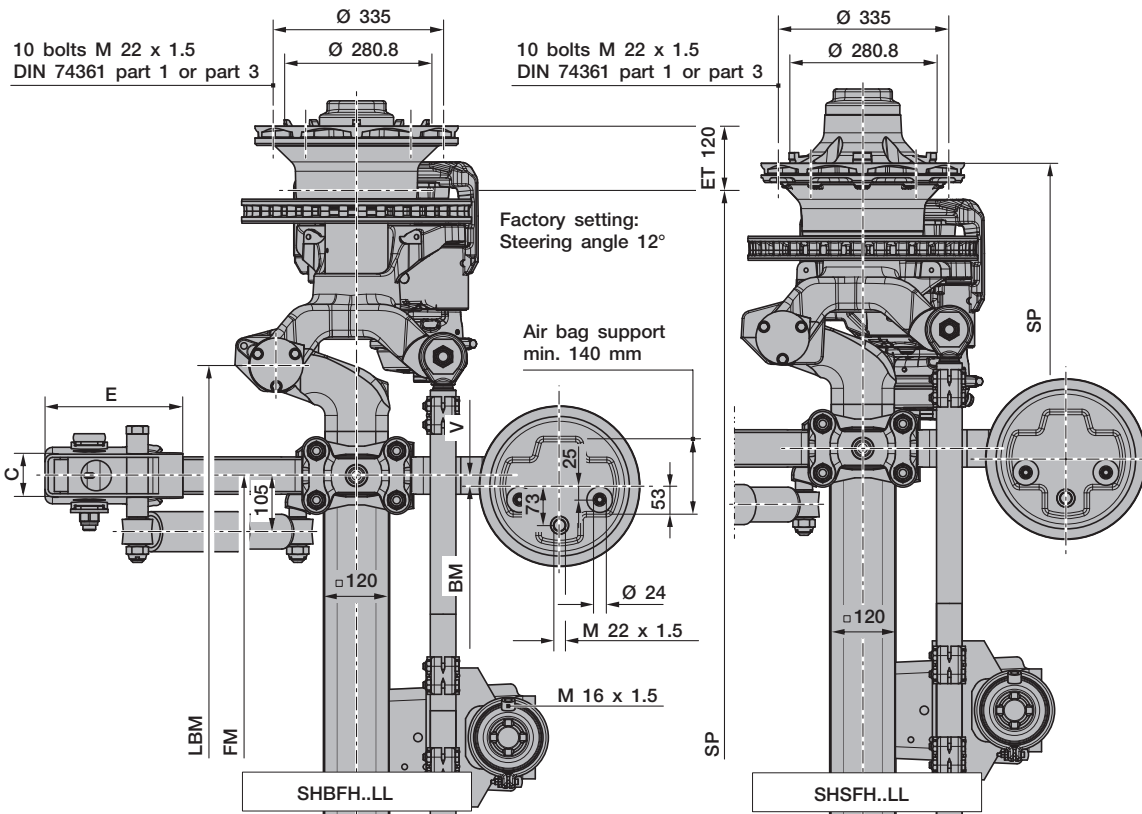
Rev. 1 (2) 19.02.2019  
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Line	Series	Adjustable ride height FH				Total spring travel GF <sup>1)</sup>	Air bag type BPW	Shock absorber 02.37...	Hanger bracket				Shock absorber mounting	
		for axle units	min. FH with axle raised	empty without air	loaded without air				ST	C	E	G	D	F
6	ALMLL	350 - 390	380	280	265	190	30K	...22.83.02	268	80	258	83	90	35
7	ALMLL	375 - 420	405	305	290	220	30	...22.83.02	268	80	258	83	90	35

<sup>1)</sup> Lifting heights acc. to TD1242.0

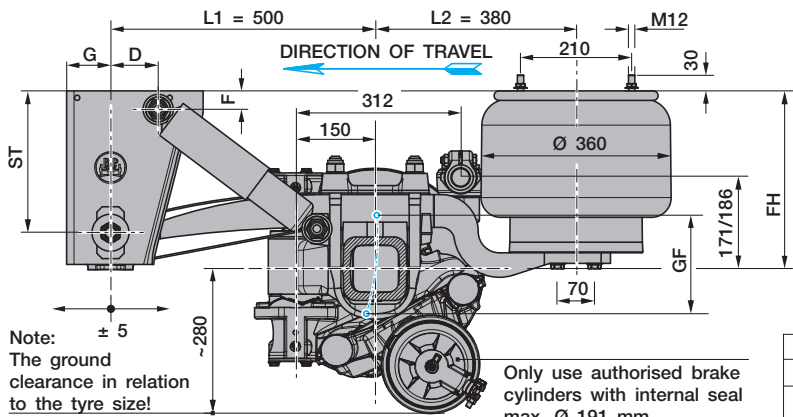


Axle type	Track SP	Spring centre FM	Steering pivot centre LBM	Air bag centre BM		Tyres recommended
				V = 20	V = 60	
SHBFH..LL 9010	2040	980	1395	940	860	385/65 R22.5
	2095	1080		1040	960	
	2140	1080		1040	960	
SHSFH..LL 9010	2040	980	1395	940	860	385/65 R22.5
	2095	1080		1040	960	
	2095	1080		1040	960	

- > 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 TE1188.0 sheet 15
- > 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).

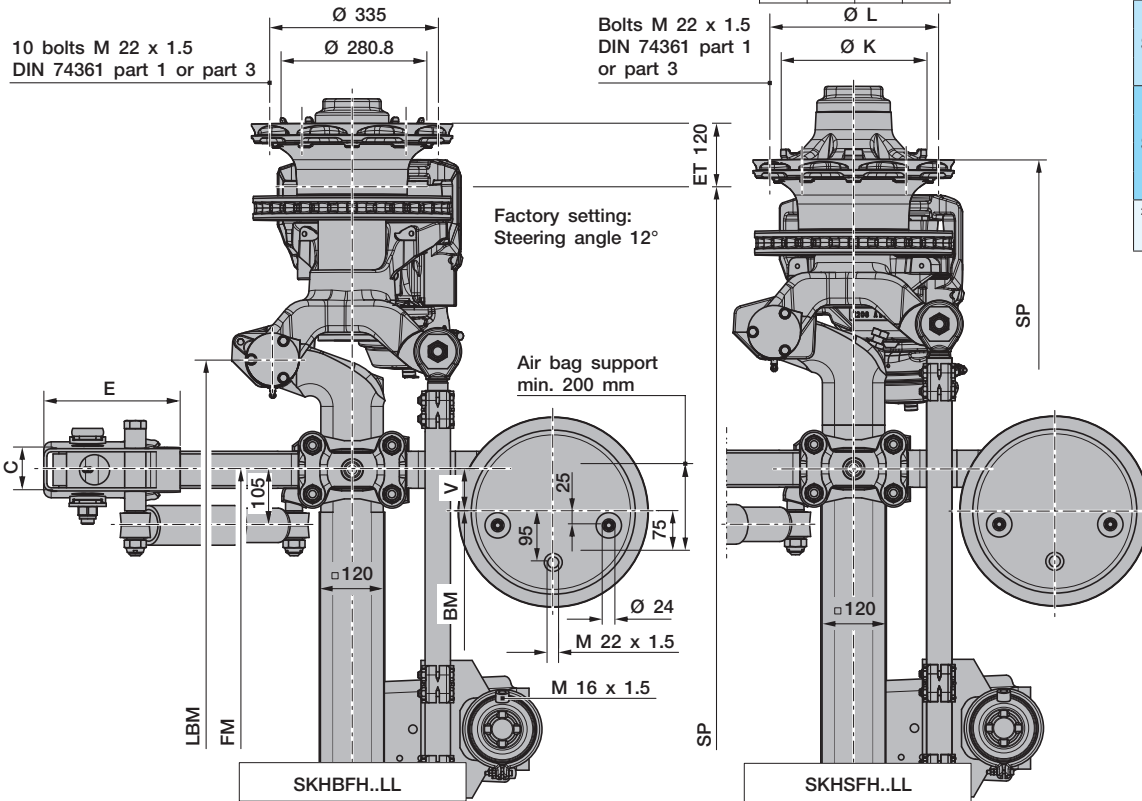
With an axle load ratio - rigid axle to steering axle - of 1:1, in suspension units with a lifting axle and when using central lubrication systems, the steering axle must be equipped with a steering damper.

Series	Steering tie rod position	Steering damper parts kit	Drawing
ALMLL	312 / 171 (up to 20° SA)	05.872.00.69.0	04.00.568302
ALMLL	312 / 186 (over 20° SA)	05.872.00.69.0	04.00.568357



Only use authorised brake cylinders with internal seal max. Ø 191 mm

8 bolts		10 bolts	
K	L	K	L
Ø 220.8	Ø 275	Ø 280.8	Ø 335



Line	Series	Adjustable ride height FH				Total spring travel GF <sup>1)</sup>	Air bag type BPW	Shock absorber 02.37...	Hanger bracket				Shock absorber mounting	
		for axle units	min. FH with axle raised	empty without air	loaded without air				ST	C	E	G	D	F
6	ALMLL	350 - 390	380	280	265	190	36K	...22.83.02	268	80	258	83	90	35
7	ALMLL	375 - 420	405	305	290	220	36	...22.83.02	268	80	258	83	90	35

<sup>1)</sup> Lifting heights acc. to TD1242.0

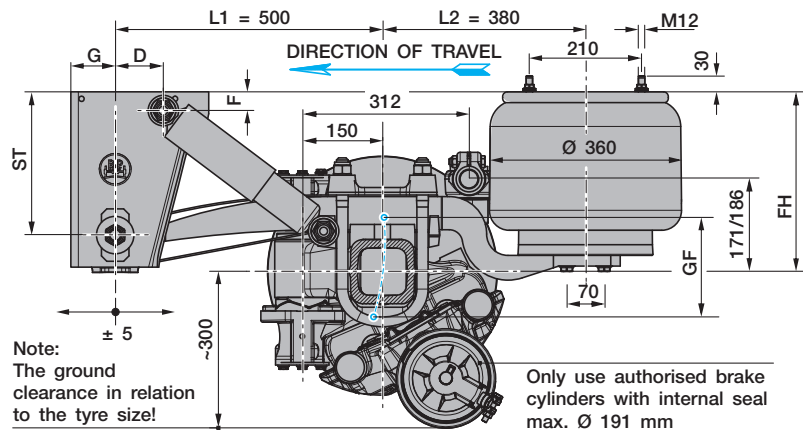
Axle type	Track SP with axle type		Spring centre FM	Steering pivot centre LBM	Air bag centre BM V = 80	Tyres recommended	
	...9010	...9008				10 bolts	8 bolts
SKHBFH..LL 9010	2040	---	980	1395	820	385/65 R22.5	---
	2095	---	1080	1450	920	385/55 R22.5	---
	2140	---	1080	1495	920	385/65 R19.5 <sup>2)</sup>	---
SKHSFH..LL 9010 / 9008	2040	2045	980	1395	820	385/65 R22.5 385/55 R22.5	385/65 R19.5 <sup>2)</sup>
	2095	2100	1080	1450	920		
	2140	2145	1080	1495	920		

<sup>2)</sup> The loading rating of the tyre mentioned in the drawing is in no relation to the axle load capacity. It is dependent on the information from the tyre manufacturer.

- > 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 TE1188.0 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).

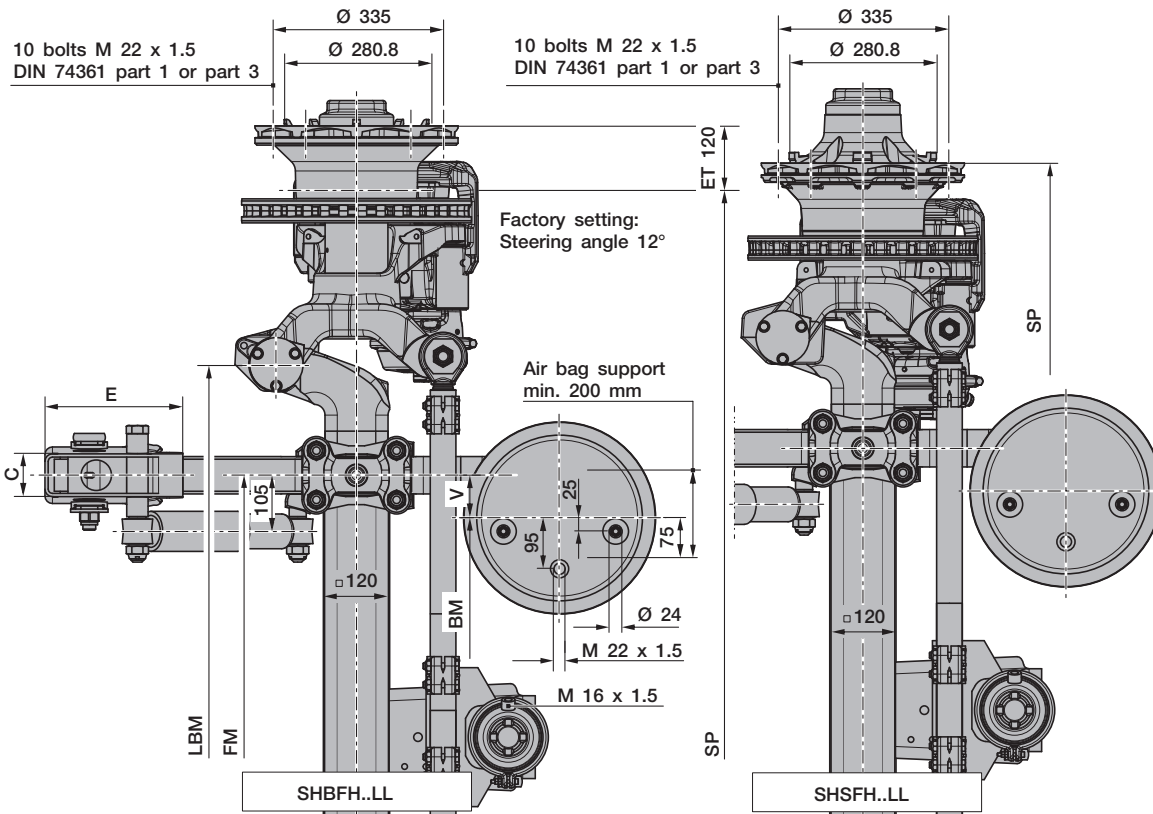
With an axle load ratio - rigid axle to steering axle - of 1:1, in suspension units with a lifting axle and when using central lubrication systems, the steering axle must be equipped with a steering damper.

Series	Steering tie rod position	Steering damper parts kit	Drawing
ALMLL	312 / 171 (up to 20° SA)	05.872.00.69.0	04.00.568302
ALMLL	312 / 186 (over 20° SA)	05.872.00.69.0	04.00.568357



Line	Series	Adjustable ride height FH				Total spring travel GF <sup>1)</sup>	Air bag type BPW	Shock absorber 02.37...	Hanger bracket				Shock absorber mounting	
		for axle units	min. FH with axle raised	empty without air	loaded without air				ST	C	E	G	D	F
6	ALMLL	350 - 390	380	280	265	190	36K	...22.83.02	268	80	258	83	90	35
7	ALMLL	375 - 420	405	305	290	220	36	...22.83.02	268	80	258	83	90	35

<sup>1)</sup> Lifting heights acc. to TD1242.0

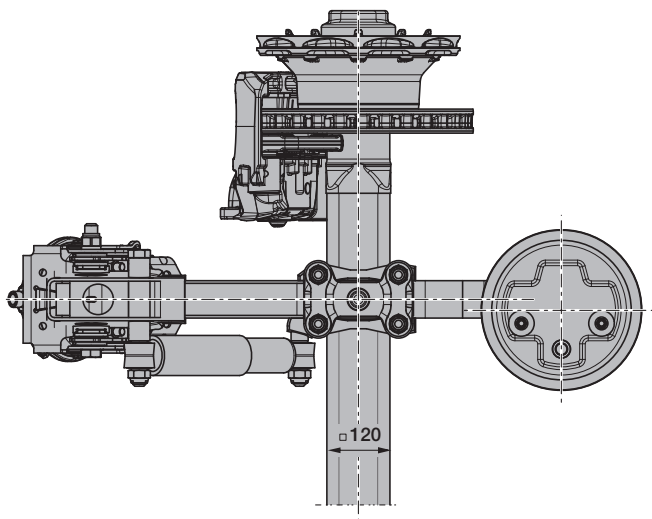
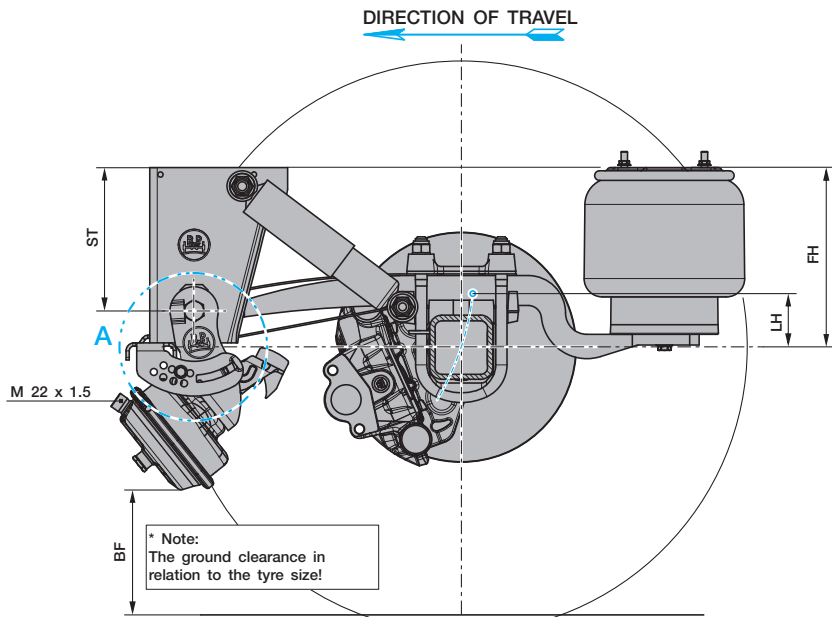


Axle type	Track SP	Spring centre FM	Steering pivot centre LBM	Air bag centre BM V = 80	Tyres recommended 10 bolts
SHBFH..LL 9010	2040	980	1395	820	385/65 R22.5
		1080		920	
	2095	1080	1450	920	385/55 R22.5
SHSFH..LL 9010	2140	1080	1495	920	385/65 R22.5
	2040	980	1395	820	
		1080		920	
SHSFH..LL 10110	2095	1080	1450	920	385/55 R22.5
	2040	1080	1395	920	
	2095	1080	1450	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 TE1188.0 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 an axle load ratio - rigid axle to steering axle - of 1:1, in suspension units with a lifting axle and when using central lubrication systems, the steering axle must be equipped with a steering damper.

Series	Steering tie rod position	Steering damper parts kit	Drawing
ALMLL	312 / 171 (up to 20° SA)	05.872.00.69.0	04.00.568302
ALMLL	312 / 186 (over 20° SA)	05.872.00.69.0	04.00.568357



Suspensions to drawing	Adjustable ride height FH		min. lifting stroke LH	Hanger bracket height ST	Ground clearance BF <sup>1)</sup>		Position lift stop no.	BPW no. 05.828...		
	for axle units	min. FH with axle raised			Version A <sup>2)</sup>	Version B <sup>2)</sup>		Hanger bracket <sup>3)</sup>		Channel cross member
								Version A <sup>2)</sup>	Version B <sup>2)</sup>	
Sheet 8 + 8a, Sheet 9 + 9a, Sheet 9b + 9c	255 - 290	285	100	184	262	252	5	...31.81.0	...32.10.0	...31.82.0
	280 - 310	310	100	184	287	277	6			
	290 - 325	320	100	268	213	203	5			
	310 - 340	340	100	184	316	306	6			
	315 - 360	345	100	268	238	228	5			
	350 - 390	380	100	268	271	261	2			
375 - 420	405	100	268	297	287	6				

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

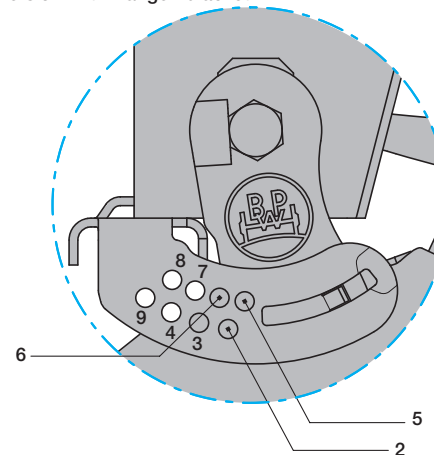
\* Tyre: 385/65 R 22.5 (r<sub>stat</sub> = 496)

In the case of smaller tyres, it is necessary to check whether the doublesided axle lift can be used, according to the application.

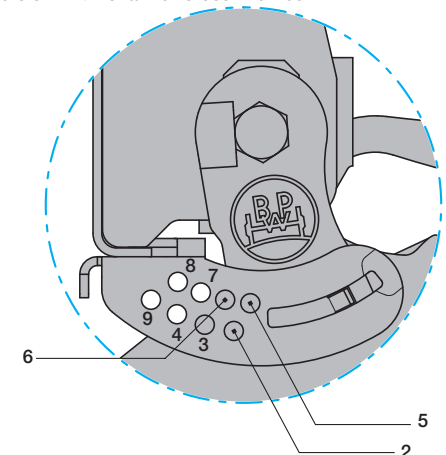
<sup>2)</sup> Version A for 9 t and 10 t single tyre fitment, version B for 10 t twin tyre fitment

<sup>3)</sup> Lifting device for bolt-on bracket on demand.

Detail A  
Version with hanger bracket

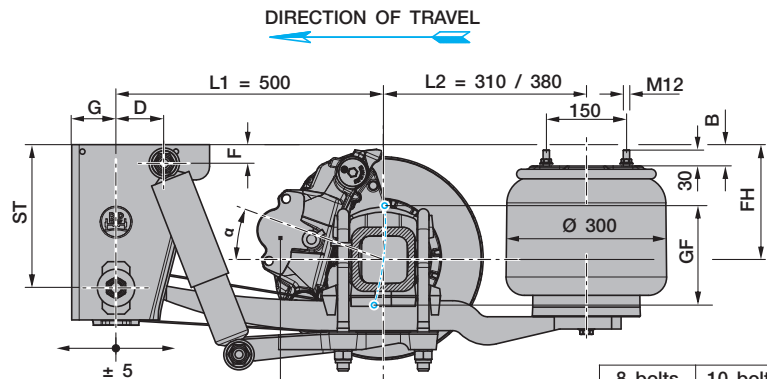


Detail A  
Version with channel cross member



- › In the lifting and lowering version, the total spring travel must be limited by a shutoff valve.
- › Minimum air pressure for lifting the axle approx. 6 bar.
- › 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).

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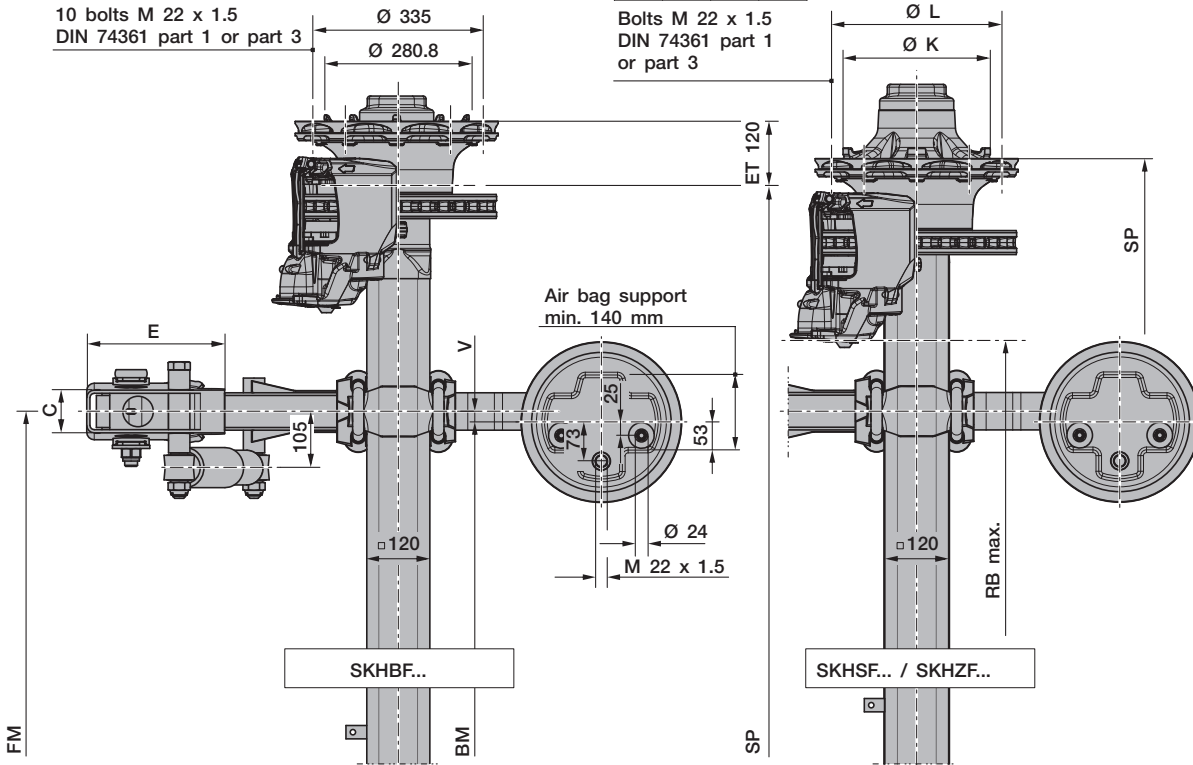


Only use authorised brake cylinders with internal seal max. Ø 191 mm

8 bolts		10 bolts	
K	L	K	L
Ø 220.8	Ø 275	Ø 280.8	Ø 335

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

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



Line	Series	Adjustable ride height FH					Total spring travel GF <sup>1)</sup>	Air bag type BPW	Shock absorber 02.37...	Hanger bracket				Shock absorber mounting		Packer <sup>2)</sup> B	Brake position α	
		for single axles	for axle units	min. FH with axle raised	empty without air	loaded without air				ST	C	F	G	D	F		ET 120	ET 0
1	ALU	205 - 255	215 - 255	245	145	130	190	30K	...22.83.02	268	80	258	83	55	35	---	20°	20°
2	ALU	235 - 290	245 - 290	275	175	160	220	30	...22.83.02	268	80	258	83	90	35	---	20°	24°
3	ALU	260 - 300	270 - 300	300	200	185	220	30	...22.83.02	268	80	258	83	90	35	40	20°	24°

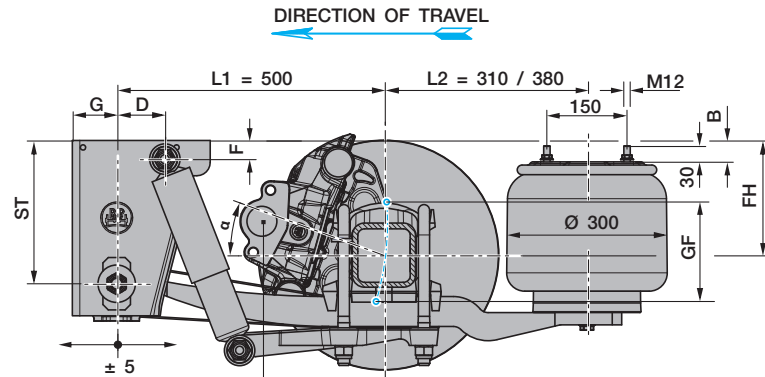
<sup>1)</sup> Lifting heights acc. to TD1242.0  
<sup>2)</sup> The packer is not included in supplied package.

Axle type	Track SP with axle type		Spring centre FM	RB max.	Air bag centre BM		Tyres recommended	
	...9010	...9008			V = 20	V = 60	10 bolts	8 bolts
SKHBF... 9010	2040	---	1200	---	1160	1080	385/65 R22.5	---
		---	1300	---	1260	1180	385/55 R22.5	
	2095	---	1300	---	1260	1180	385/65 R19.5 <sup>3)</sup>	
	2140	---	1400	---	1360	1280	435/50 R19.5 <sup>4)</sup> 445/45 R19.5 <sup>4)</sup>	
SKHSF...9010 / 9008	2000	2005	1100	1320	1060	980	385/65 R22.5	385/65 R19.5 <sup>3)</sup>
	2040	2045	1100	1360	1060	980	385/55 R22.5	435/50 R19.5 <sup>4)</sup> 445/45 R19.5 <sup>4)</sup>
SKHZF...9010 / 9008	1820	1825	900	1140	860	780	275/70 R22.5	265/70 R19.5
	1880	1885	980	1200	940	860		
	1920	1925	980	1240	940	860		

<sup>3)</sup> The loading rating of the tyre mentioned in the drawing is in no relation to the axle load capacity. It is dependent on the information from the tyre manufacturer.  
<sup>4)</sup> Note the maximum total width.

- > Max. inclination angle of the semitrailer under full load and lowest adjustable ride height ±1°
- > With trailing arm L1 = 500 / L2 = 310, bag pressures acc. to TE1188.0 sheet 18  
With trailing arm L1 = 500 / L2 = 380, bag pressures acc. to TE1188.0 sheet 15
- > 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).

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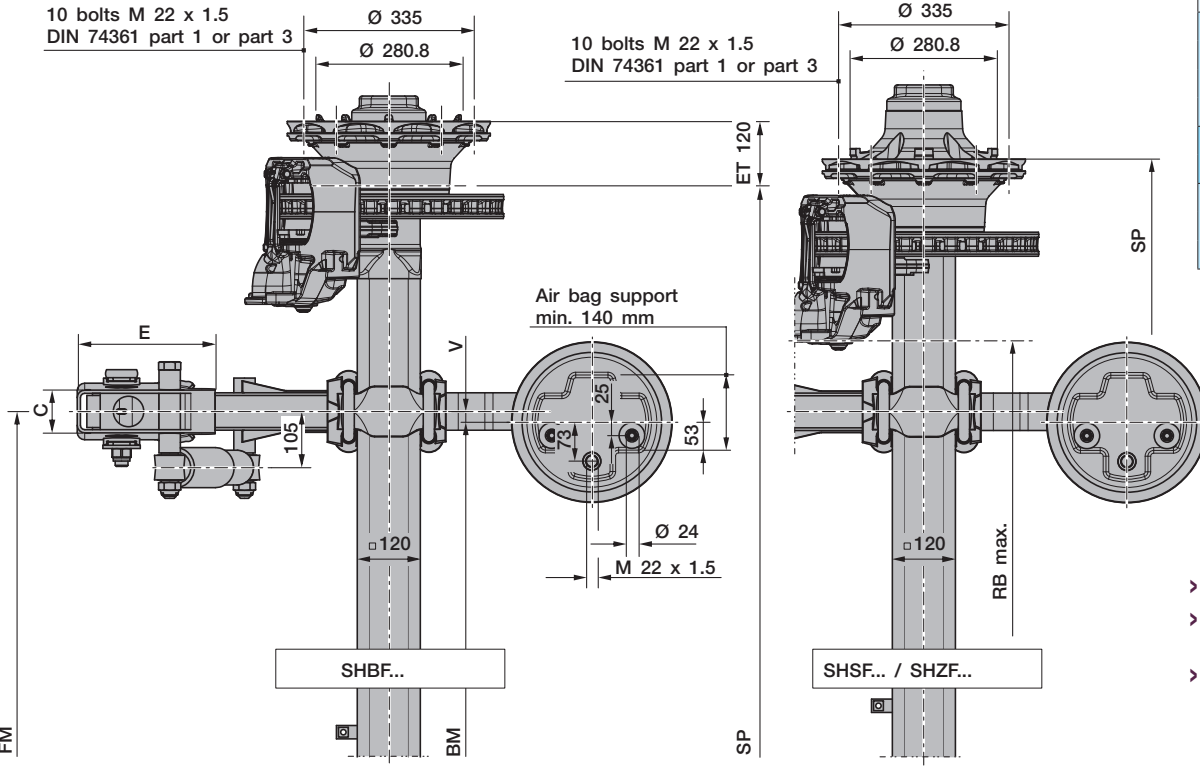
Only use authorised brake cylinders with internal seal max. Ø 186 mm

Line	Series	Adjustable ride height FH					Total spring travel GF <sup>1)</sup>	Air bag type BPW	Shock absorber 02.37...	Hanger bracket				Shock absorber mounting		Packer <sup>2)</sup> B	Brake position $\alpha$
		for single axles	for axle units	min. FH with axle raised	empty without air	loaded without air				ST	C	E	G	D	F		
2 <sup>3)</sup>	ALU	235 - 290	245 - 290	275	175	160	220	30	...22.83.02	268	80	258	83	55	35	---	24°
3 <sup>3)</sup>	ALU	260 - 300	270 - 300	300	200	185	220	30	...22.83.02	268	80	258	83	55	35	40	24°

1) Lifting heights acc. to TD1242.0  
2) The packer is not included in supplied package.  
3) Aluminium hanger bracket not possible

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

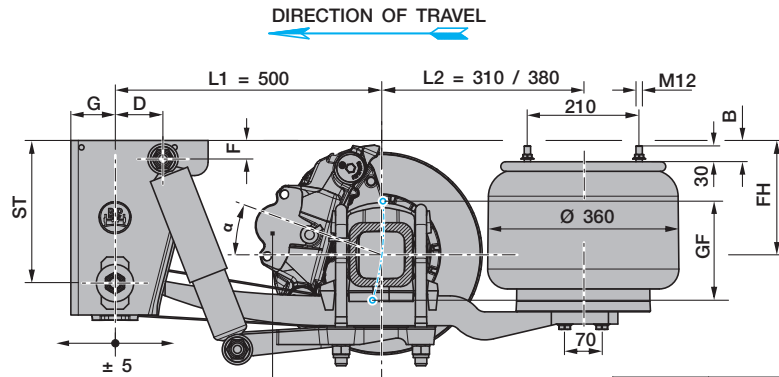
10 bolts M 22 x 1.5  
DIN 74361 part 1 or part 3



Axle type	Track SP	Spring centre FM	RB max.	Air bag centre BM		Tyres recommended	
				V = 20	V = 60		
SHBF... 9010	2040	1200	---	1160	1080	385/65 R22.5 385/55 R22.5	
		1300	---	1260	1180		
		2095	1300	---	1260		1180
SHSF...9010	2040	1100	1360	1060	980	385/65 R22.5 385/55 R22.5	
		1200	1360	1160	1080		
SHZF...9010	1820	900	1140	860	780	275/70 R22.5	
		1880	980	1200	---		860
		1920	980	1240	940		860

- > Max. inclination angle of the semitrailer under full load and lowest adjustable ride height  $\pm 1^\circ$
- > With trailing arm L1 = 500 / L2 = 310, bag pressures acc. to TE1188.0 sheet 18  
With trailing arm L1 = 500 / L2 = 380, bag pressures acc. to TE1188.0 sheet 15
- > 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).

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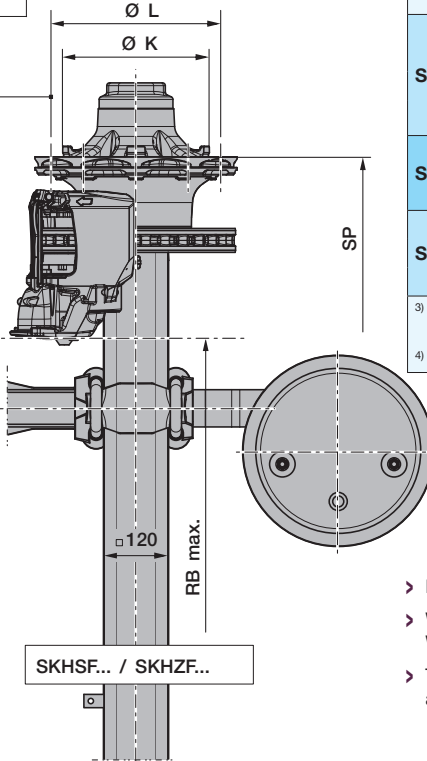
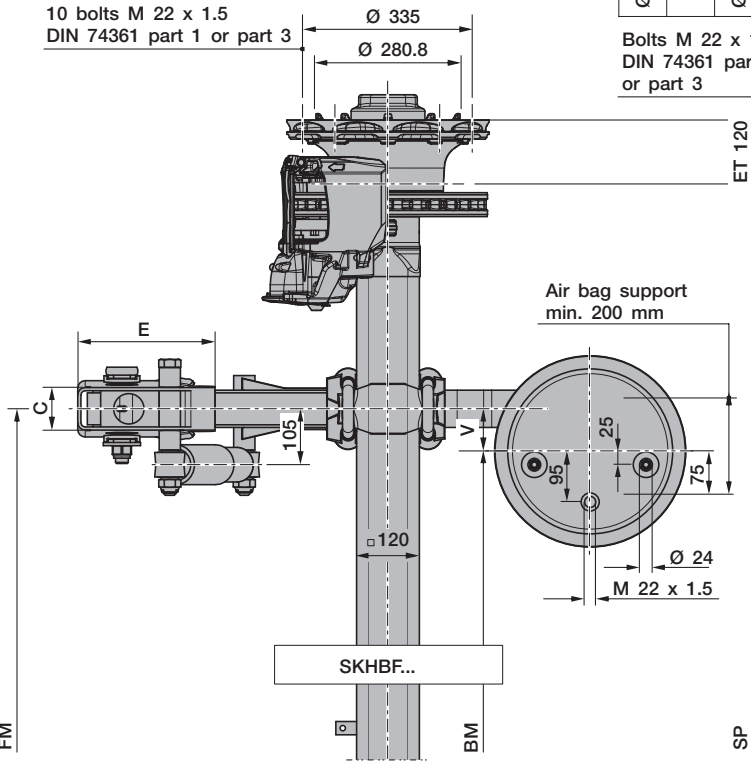


Only use authorised brake cylinders with internal seal max. Ø 191 mm

8 bolts		10 bolts	
K	L	K	L
Ø 220.8	Ø 275	Ø 280.8	Ø 335

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

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



Line	Series	Adjustable ride height FH					Total spring travel GF <sup>1)</sup>	Air bag type BPW	Shock absorber 02.37...	Hanger bracket				Shock absorber mounting		Packer <sup>2)</sup> B	Brake position α	
		for single axles	for axle units	min. FH with axle raised	empty without air	loaded without air				ST	C	E	G	D	F		ET 120	ET 0
1	ALU	205 - 255	215 - 255	245	145	130	190	36K	...22.83.02	268	80	258	83	55	35	---	20°	20°
2	ALU	235 - 290	245 - 290	275	175	160	220	36	...22.83.02	268	80	258	83	90	35	---	20°	24°
3	ALU	260 - 300	270 - 300	300	200	185	220	36	...22.83.02	268	80	258	83	90	35	40	20°	24°

<sup>1)</sup> Lifting heights acc. to TD1242.0

<sup>2)</sup> The packer is not included in supplied package.

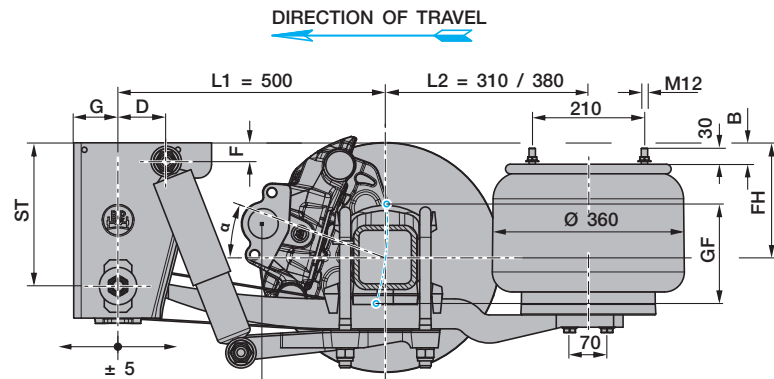
Axle type	Track SP with axle type		Spring centre FM	RB max.	Air bag centre BM V = 80	Tyres recommended	
	...9010	...9008				10 bolts	8 bolts
SKHBF... 9010	2040	---	1200	---	1040	385/65 R22.5	---
		---	1300	---	1140	385/55 R22.5	
	2095	---	1300	---	1140	385/65 R19.5 <sup>3)</sup>	
	2140	---	1400	---	1240	435/50 R19.5 <sup>4)</sup> 445/45 R19.5 <sup>4)</sup>	
SKHSF...9010 / 9008	2000	2005	1100	1320	940	385/65 R22.5	385/65 R19.5 <sup>3)</sup> 435/50 R19.5 <sup>4)</sup> 445/45 R19.5 <sup>4)</sup>
	2040	2045	1100	1360	940	385/55 R22.5	
SKHZF...9010 / 9008	1820	1825	900	1140	740	275/70 R22.5	265/70 R19.5
	1880	1885	980	1200	820		
	1920	1925	980	1240	820		

<sup>3)</sup> The loading rating of the tyre mentioned in the drawing is in no relation to the axle load capacity. It is dependent on the information from the tyre manufacturer.

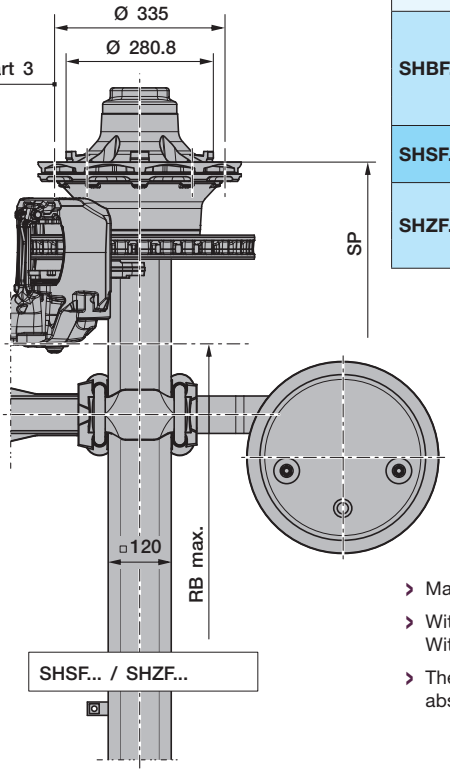
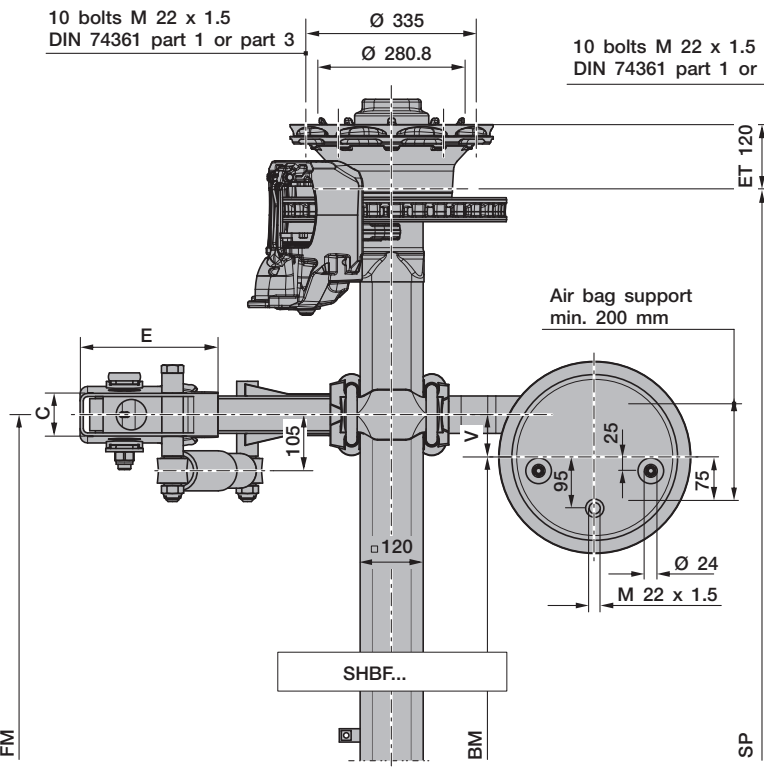
<sup>4)</sup> Note the maximum total width.

- > Max. inclination angle of the semitrailer under full load and lowest adjustable ride height ±1°
- > With trailing arm L1 = 500 / L2 = 310, bag pressures acc. to TE1188.0 Sheet 5  
With trailing arm L1 = 500 / L2 = 380, bag pressures acc. to TE1188.0 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).

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Only use authorised brake cylinders with internal seal max. Ø 186 mm



Line	Series	Adjustable ride height FH					Total spring travel GF <sup>1)</sup>	Air bag type BPW	Shock absorber 02.37...	Hanger bracket				Shock absorber mounting		Packer <sup>2)</sup> B	Brake position α
		for single axles	for axle units	min. FH with axle raised	empty without air	loaded without air				ST	C	E	G	D	F		
2 <sup>3)</sup>	ALU	235 - 290	245 - 290	275	175	160	220	36	...22.83.02	268	80	258	83	55	35	---	24°
3 <sup>3)</sup>	ALU	260 - 300	270 - 300	300	200	185	220	36	...22.83.02	268	80	258	83	55	35	40	24°

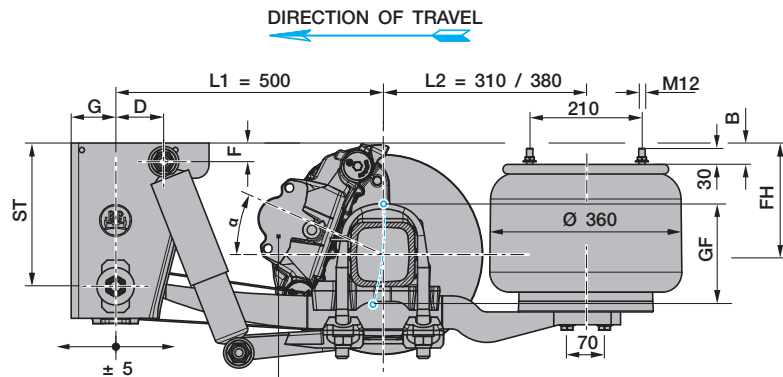
<sup>1)</sup> Lifting heights acc. to TD1242.0  
<sup>2)</sup> The packer is not included in supplied package.  
<sup>3)</sup> Aluminium hanger bracket not possible

Axle type	Track SP	Spring centre FM	RB max.	Air bag centre BM V = 80	Tyres recommended	
SHBF... 9010	2040	1200	---	1040	385/65 R22.5 385/55 R22.5	
		1300	---	1140		
	2140	1400	---	1240		
SHSF...9010	2040	1100	1360	940	385/65 R22.5	
		1200	1360	1040	385/55 R22.5	
SHZF...9010	1820	900	1140	740	275/70 R22.5	
		1880	980	1200		820
		1920	980	1240		820

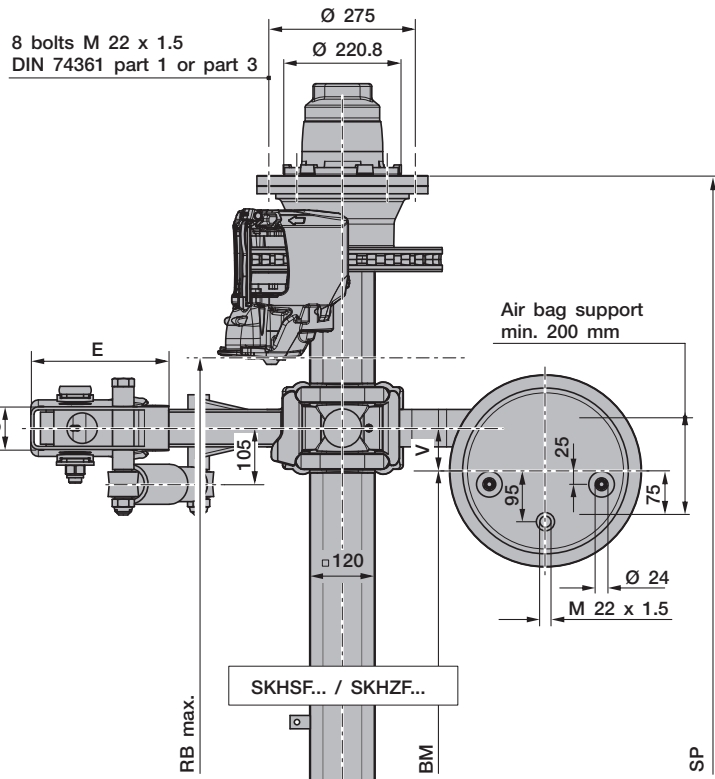
- > Max. inclination angle of the semitrailer under full load and lowest adjustable ride height ±1°
- > With trailing arm L1 = 500 / L2 = 310, bag pressures acc. to TE1188.0 Sheet 5  
With trailing arm L1 = 500 / L2 = 380, bag pressures acc. to TE1188.0 Sheet 11
- > The hanger brackets, air bag supports and the frame must be reinforced so that the forces applied can be absorbed (see the current BPW installation instructions).

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Only use authorised brake cylinders with internal seal max. Ø 191 mm



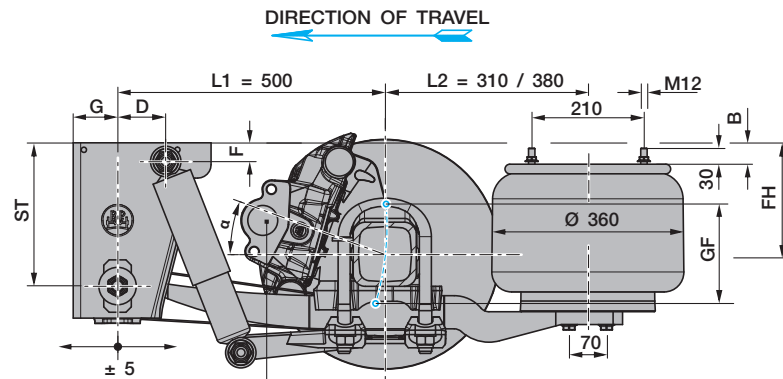
Line	Series	Adjustable ride height FH					Total spring travel GF <sup>1)</sup>	Air bag type BPW	Shock absorber 02.37...	Hanger bracket				Shock absorber mounting		Packer <sup>2)</sup> B	Brake position α
		for single axles	for axle units	min. FH with axle raised	empty without air	loaded without air				ST	C	E	G	D	F		
1	ALU	205 - 255	215 - 255	245	145	130	190	36K	...22.83.02	268	80	258	83	55	35	---	20°
2	ALU	235 - 290	245 - 290	275	175	160	220	36	...22.83.02	268	80	258	83	90	35	---	24°
3	ALU	260 - 300	270 - 300	300	200	185	220	36	...22.83.02	268	80	258	83	90	35	40	24°

<sup>1)</sup> Lifting heights acc. to TD1242.0  
<sup>2)</sup> The packer is not included in supplied package.

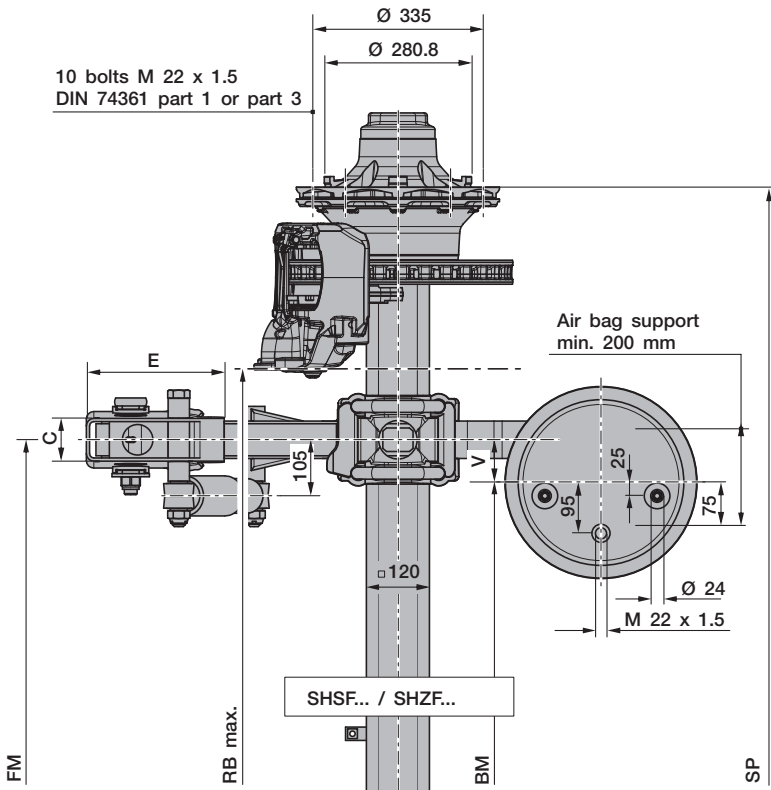
Axle type	Track SP	Spring centre FM	RB max.	Air bag centre BM V = 80	Tyres recommended
SKHSF...10008	2000	1100	1320	940	445/65 R19.5
	2040	1100	1360	940	
SKHZF...10008	1820	900	1140	740	265/70 R19.5
	1880	980	1200	820	
	1920	980	1240	820	
	1970	1100	1290	940	

- > Max. inclination angle of the semitrailer under full load and lowest adjustable ride height ±1°
- > With trailing arm L1 = 500 / L2 = 310, bag pressures acc. to TE1188.0 Sheet 5  
With trailing arm L1 = 500 / L2 = 380, bag pressures acc. to TE1188.0 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).

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Subject to change without notice.		



Only use authorised brake cylinders with internal seal max. Ø 186 mm



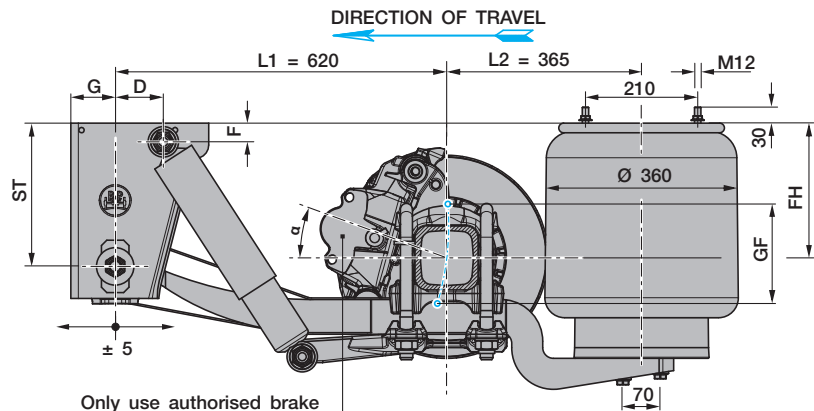
Line	Series	Adjustable ride height FH					Total spring travel GF <sup>1)</sup>	Air bag type BPW	Shock absorber 02.37...	Hanger bracket				Shock absorber mounting		Packer <sup>2)</sup> B	Brake position α
		for single axles	for axle units	min. FH with axle raised	empty without air	loaded without air				ST	C	E	G	D	F		
2	ALU	235 - 290	245 - 290	275	175	160	220	36	...22.83.02	268	80	258	83	55	35	---	24°
3	ALU	260 - 300	270 - 300	300	200	185	220	36	...22.83.02	268	80	258	83	55	35	40	24°

<sup>1)</sup> Lifting heights acc. to TD1242.0  
<sup>2)</sup> The packer is not included in supplied package.

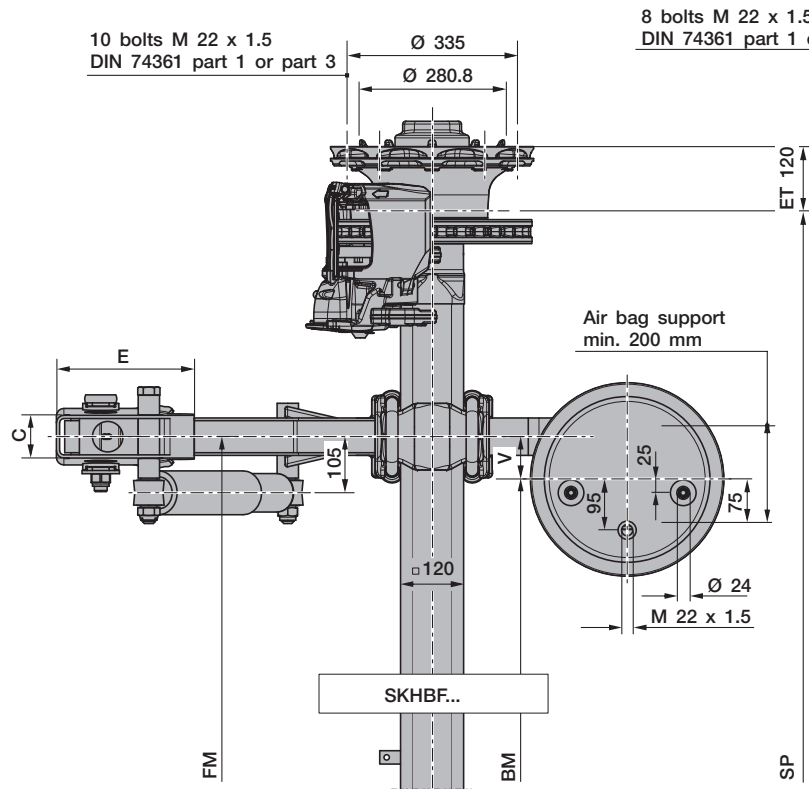
Axle type	Track SP	Spring centre FM	RB max.	Air bag centre BM V = 80	Tyres recommended
SHSF...10110	2040	1200	1360	1040	425/65 R22.5
	2095	1200	1415	1040	
SHZF...10110	1820	900	1140	740	275/70 R22.5
	1880	980	1200	820	

- Max. inclination angle of the semitrailer under full load and lowest adjustable ride height ±1°
- With trailing arm L1 = 500 / L2 = 310, bag pressures acc. to TE1188.0 Sheet 5  
With trailing arm L1 = 500 / L2 = 380, bag pressures acc. to TE1188.0 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).

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Subject to change without notice.		



Only use authorised brake cylinders with internal seal max. Ø 191 mm



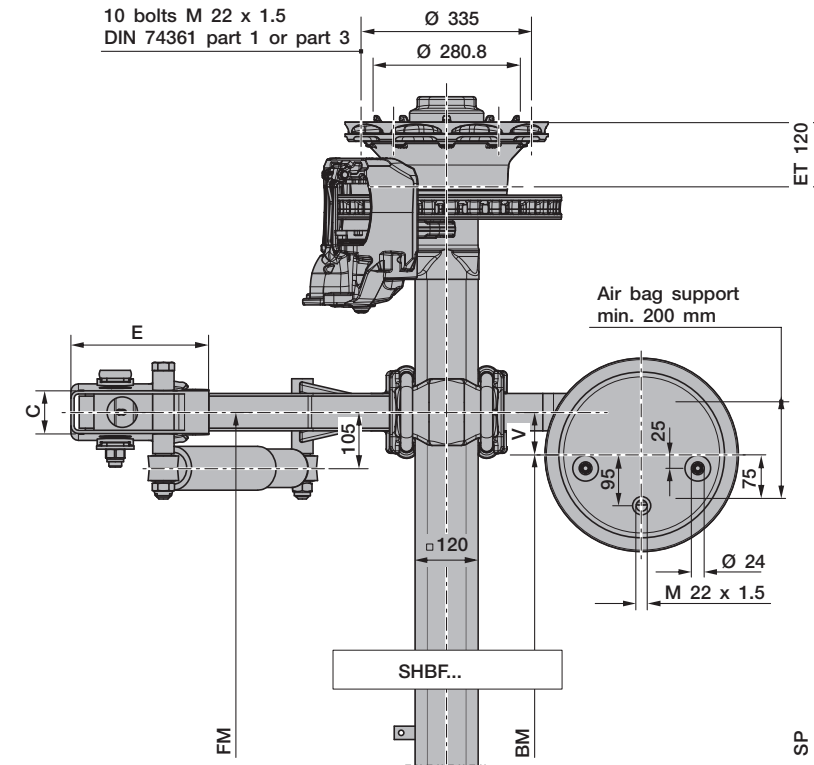
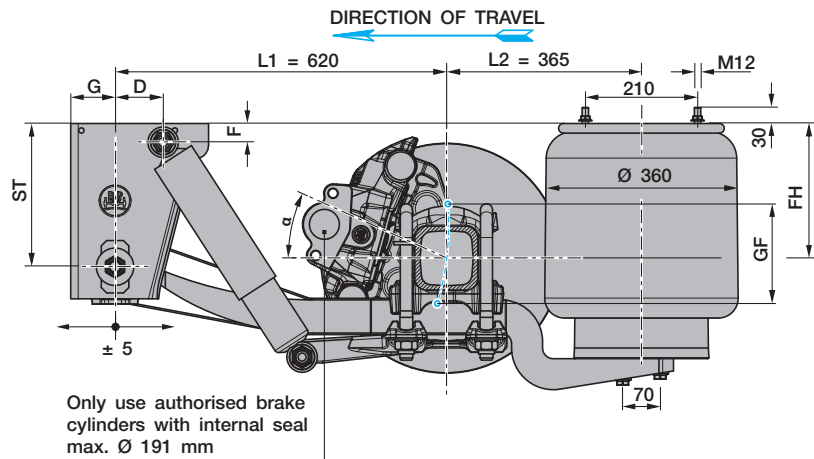
Line	Series	Adjustable ride height FH					Total spring travel GF <sup>1)</sup>	Air bag type BPW	Shock absorber 02.37...	Hanger bracket				Shock absorber mounting		Brake position $\alpha$	
		for single axles	for axle units	min. FH with axle raised	empty without air	loaded without air				ST	C	E	G	D	F	ET 120	ET 0
1 2)	ALU	215 - 350	225 - 350	255	155	140	310	36-1	...02.20.02	268	80	258	83	90	35	20°	20°

<sup>1)</sup> Lifting heights acc. to TD1242.0  
<sup>2)</sup> In the lifting and lowering version, the total spring travel must be limited by a shut off valve.

Axle type	Track SP with axle type		Spring centre FM	RB max.	Air bag centre BM V = 80	Tyres recommended	
	...9010	...9008				10 bolts	8 bolts
SKHBF... 9010	2010	---	1200	---	1040	385/65 R22.5	---
	2040	---	1200	---	1040	385/55 R22.5	
		---	1300	---	1140	385/65 R19.5 <sup>3)</sup> 435/50 R19.5 445/45 R19.5	
SKHZF...9008 <sup>4)</sup>	---	1875	950	1195	790	---	265/70 R19.5

<sup>3)</sup> The loading rating of the tyre mentioned in the drawing is in no relation to the axle load capacity. It is dependent on the information from the tyre manufacturer.  
<sup>4)</sup> Only suitable for semi-trailers/Centre axle drawbar trailer

- > Max. inclination angle of the semitrailer under full load and lowest adjustable ride height  $\pm 1^\circ$
- > With trailing arm L1 = 620 / L2 = 365, bag pressures acc. to TE1188.0 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).



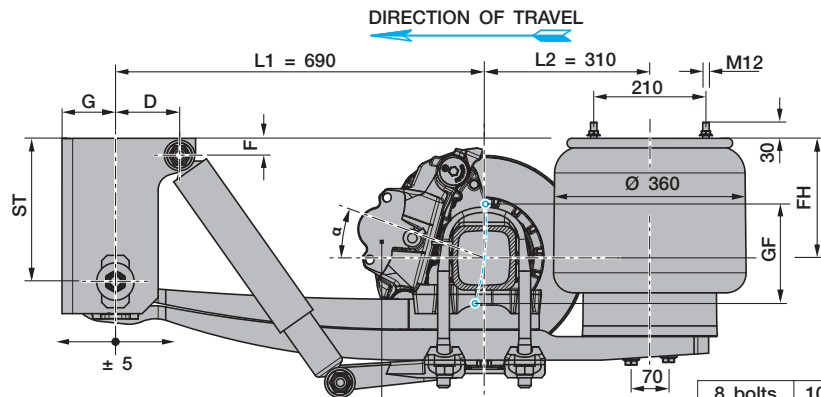
Line	Series	Adjustable ride height FH					Total spring travel GF <sup>1)</sup>	Air bag type BPW	Shock absorber 02.37 ...	Hanger bracket				Shock absorber mounting		Brake position $\alpha$
		for single axles	for axle units	min. FH with axle raised	empty without air	loaded without air				ST	C	E	G	D	F	
1 2)	ALU	215 - 350	225 - 350	255	155	140	310	36-1	...02.20.02	268	80	258	83	90	35	24°

<sup>1)</sup> Lifting heights acc. to TD1242.0  
<sup>2)</sup> In the lifting and lowering version, the total spring travel must be limited by a shut off valve.

Axle type	Track SP	Spring centre FM	Air bag centre BM V = 80	Tyres recommended
<b>SHBF... 9010</b>	2010	1200	1040	385/65 R22.5 385/55 R22.5
	2040	1200	1040	
			1300	1140

- Max. inclination angle of the semitrailer under full load and lowest adjustable ride height  $\pm 1^\circ$
- With trailing arm L1 = 620 / L2 = 365, bag pressures acc. to TE1188.0 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).

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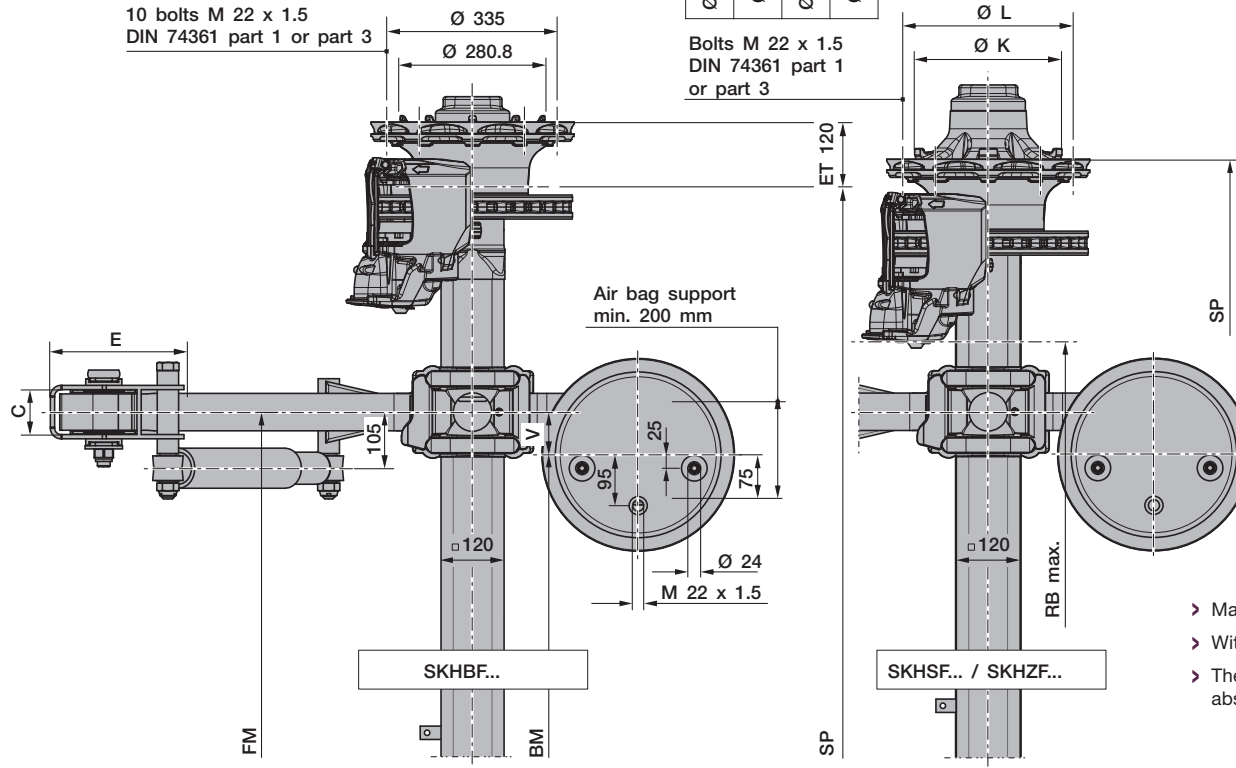


Only use authorised brake cylinders with internal seal max. Ø 191 mm

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

8 bolts		10 bolts	
K	L	K	L
Ø 220.8	Ø 275	Ø 280.8	Ø 335

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



Line	Series	Adjustable ride height FH					Total spring travel GF <sup>1)</sup>	Air bag type BPW	Shock absorber 02.37...	Hanger bracket				Shock absorber mounting		Brake position $\alpha$	
		for single axles	for axle units	min. FH with axle raised	empty without air	loaded without air				ST	C	E	G	D	F	ET 120	ET 0
1 2)	ALU	230 - 345	240 - 345	270	170	155	340	36-1	...02.20.02	268	100	250	100	120	32	20°	20°

<sup>1)</sup> Lifting heights acc. to TD1242.0

<sup>2)</sup> In the lifting and lowering version, the total spring travel must be limited by a shut off valve.

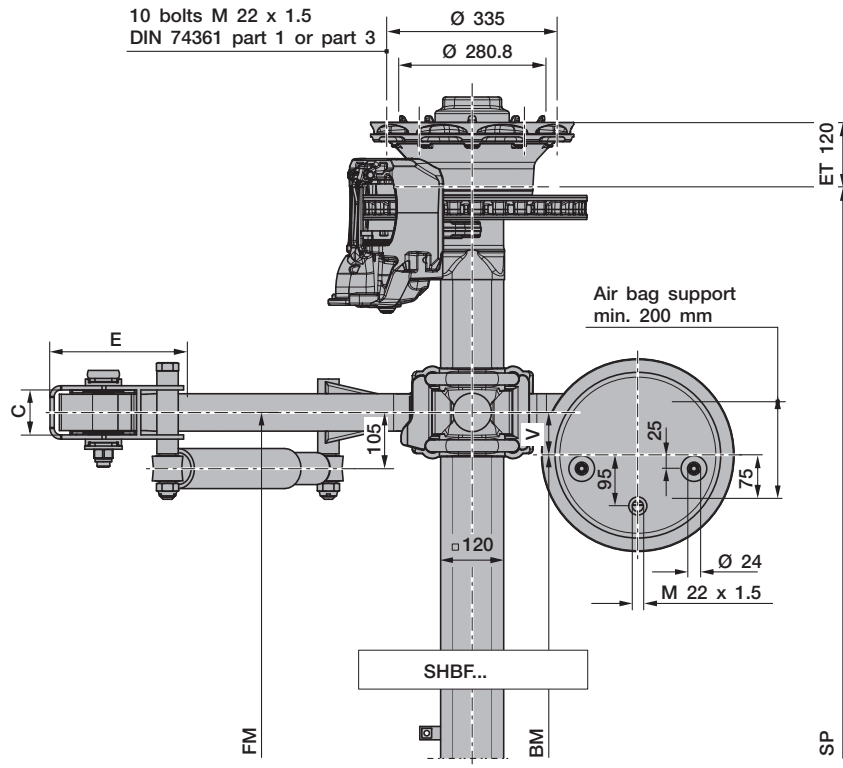
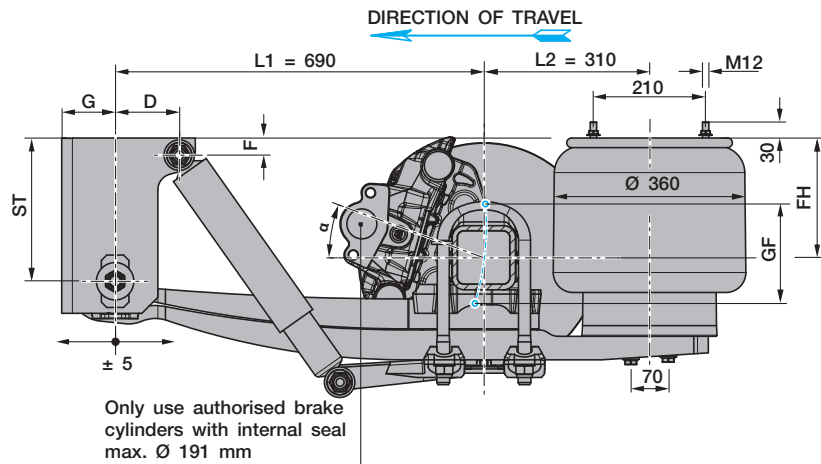
Axle type	Track SP with axle type		Spring centre FM	RB max.	Air bag centre BM V = 80	Tyres recommended	
	...9010	...9008				10 bolts	8 bolts
SKHBF... 9010	2040	---	1200	---	1040	385/65 R22.5	
		---	1300	---	1140	385/55 R22.5 385/65 R19.5 <sup>3)</sup> 435/50 R19.5 445/45 R19.5	
SKHSF...9010 / 9008	2000	2005	1100	1320	940	385/65 R22.5	385/65 R19.5 <sup>3)</sup> 435/50 R19.5 445/45 R19.5
			---	---	---	385/55 R22.5	

<sup>3)</sup> The loading rating of the tyre mentioned in the drawing is in no relation to the axle load capacity. It is dependent on the information from the tyre manufacturer.

Axle type	Track SP with axle type		Spring centre FM	RB max.	Air bag centre BM V = 80	Tyres recommended	
	...10010	...10008				10 bolts	8 bolts
SKHSF...10...	2000	2000	1100	1320	940	425/65 R22.5	445/65 R19.5
SKHZF...10...	---	1880	980	1200	820		265/70 R19.5
		1920	980	1240	820		

- > 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 TE1188.0 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).

Rev. 0	(2)	05.09.2018
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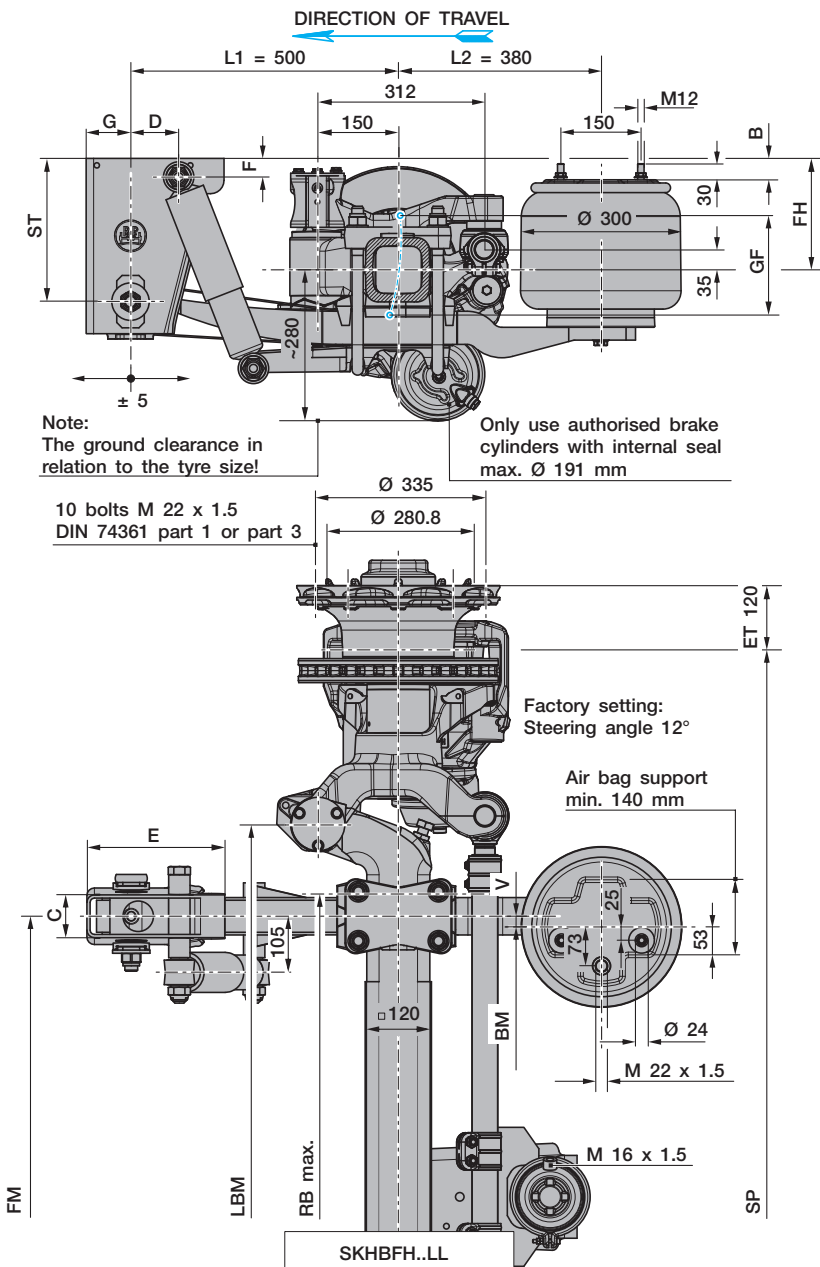
Line	Series	Adjustable ride height FH					Total spring travel GF <sup>1)</sup>	Air bag type BPW	Shock absorber 02.37...	Hanger bracket				Shock absorber mounting		Brake position $\alpha$
		for single axles	for axle units	min. FH with axle raised	empty without air	loaded without air				ST	C	E	G	D	F	
1 <sup>2)</sup>	ALU	230 - 345	240 - 345	270	170	155	340	36-1	...02.20.02	268	100	250	100	120	32	24°

<sup>1)</sup> Lifting heights acc. to TD1242.0  
<sup>2)</sup> In the lifting and lowering version, the total spring travel must be limited by a shut off valve.

Axle type	Track SP	Spring centre FM	Air bag centre BM V = 80	Tyres recommended
SHBF... 9010	2040	1200	1040	385/65 R22.5
		1300	1140	385/55 R22.5

- 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 TE1188.0 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).

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Line	Series	Adjustable ride height FH				Total spring travel GF <sup>1)</sup>	Air bag type BPW	Shock absorber 02.37...	Hanger bracket				Shock absorber mounting		Packer <sup>2)</sup> B
		for axle units	min. FH with axle raised	empty without air	loaded without air				ST	C	E	G	D	F	
1 <sup>3)</sup>	ALULL	215 - 255	245	145	130	190	30K	...22.83.02	268	80	258	83	55	35	---
2 <sup>3)</sup>	ALULL	245 - 290	275	175	160	220	30	...22.83.02	268	80	258	83	90	35	---
3	ALULL	270 - 300	300	200	185	220	30	...22.83.02	268	80	258	83	90	35	40

<sup>1)</sup> Lifting heights acc. to TD1242.0

<sup>2)</sup> The packer is not included in supplied package.

<sup>3)</sup> Note the maximum frame RB max.

Axle type	Track SP	Spring centre FM	Steering pivot centre LBM	Brake cylinder max.	RB max.	Air bag centre BM		Tyres recommended
						V = 20	V = 60	
SKHBFH...LL 9010	2040	980	1395	Typ 20 <sup>5)</sup>	1150	940	860	385/65 R22.5
	2095	1005	1450	Typ 24	1205	965	885	385/55 R22.5
	2140	1050	1495	Typ 24	1250	1010	930	425/55 R19.5 <sup>4)</sup>

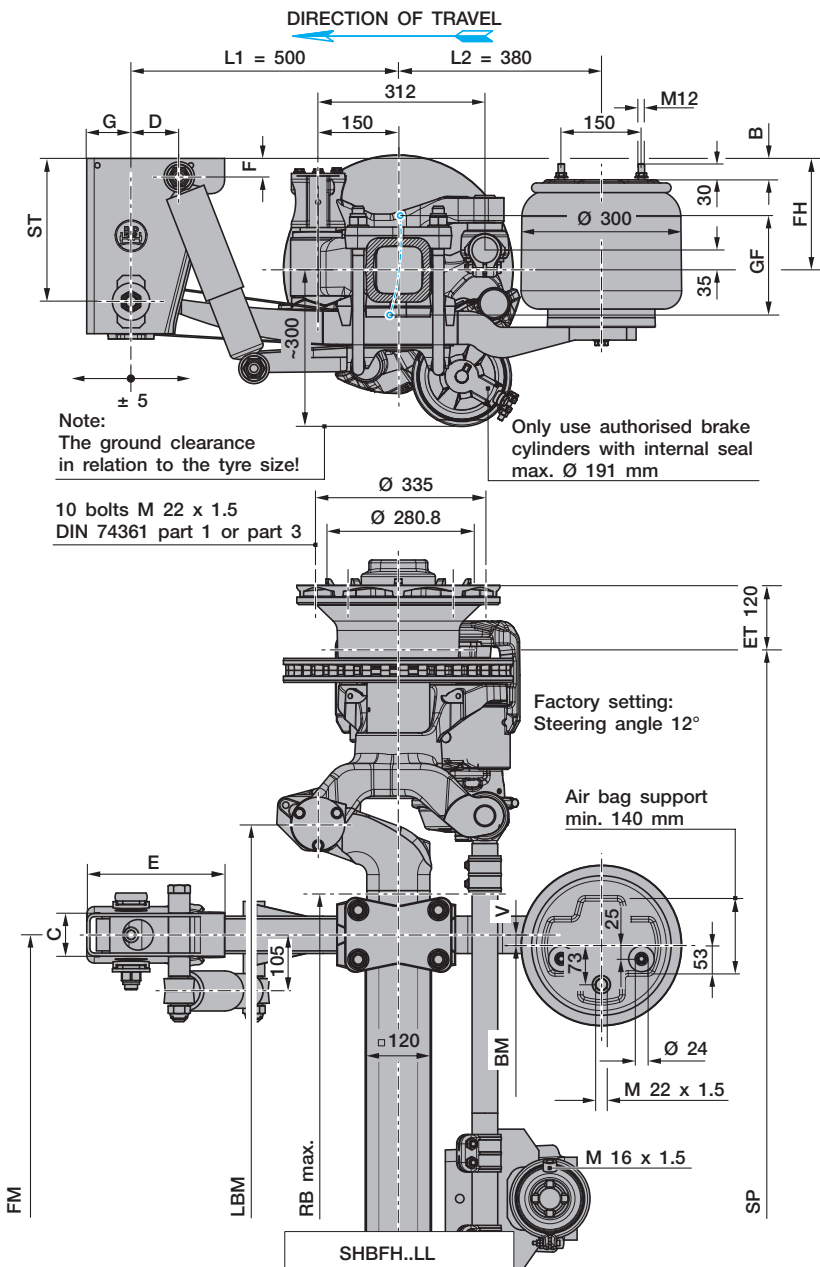
<sup>4)</sup> Note the maximum total width.

<sup>5)</sup> max. steering angle 10°

- 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 TE1188.0 sheet 15
- 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 an axle load ratio - rigid axle to steering axle - of 1:1, in suspension units with a lifting axle and when using central lubricatin systems, the steering axle must be equipped wit a steering damper.

Series	Steering tie rod position	Steering damper parts kit	Drawing
ALULL	312 / 35	05.872.00.70.0	04.00.568335



Line	Series	Adjustable ride height FH				Total spring travel (GF <sup>1)</sup> )	Air bag type BPW	Shock absorber 02.37...	Hanger bracket				Shock absorber mounting		Packer <sup>2)</sup> B
		for axle units	min. FH with axle raised	empty without air	loaded without air				ST	C	E	G	D	F	
2 <sup>3)</sup>	ALULL	245 - 290	275	175	160	220	30	...22.83.02	268	80	258	83	90	35	---
3	ALULL	270 - 300	300	200	185	220	30	...22.83.02	268	80	258	83	90	35	40

<sup>1)</sup> Lifting heights acc. to TD1242.0

<sup>2)</sup> The packer is not included in supplied package.

<sup>3)</sup> Note the maximum frame RB max.

Axle type	Track SP	Spring centre FM	Steering pivot centre LBM	Brake cylinder max.	RB max.	Air bag centre BM		Tyres recommended
						V = 20	V = 60	
SHBFH...LL 9010	2040	980	1395	Typ 20	1150	940	860	385/65 R22.5 385/55 R22.5
	2095	1080	1450	Typ 16	1205	1040	960	
	2140	1080	1495	Typ 24	1250	1040	960	

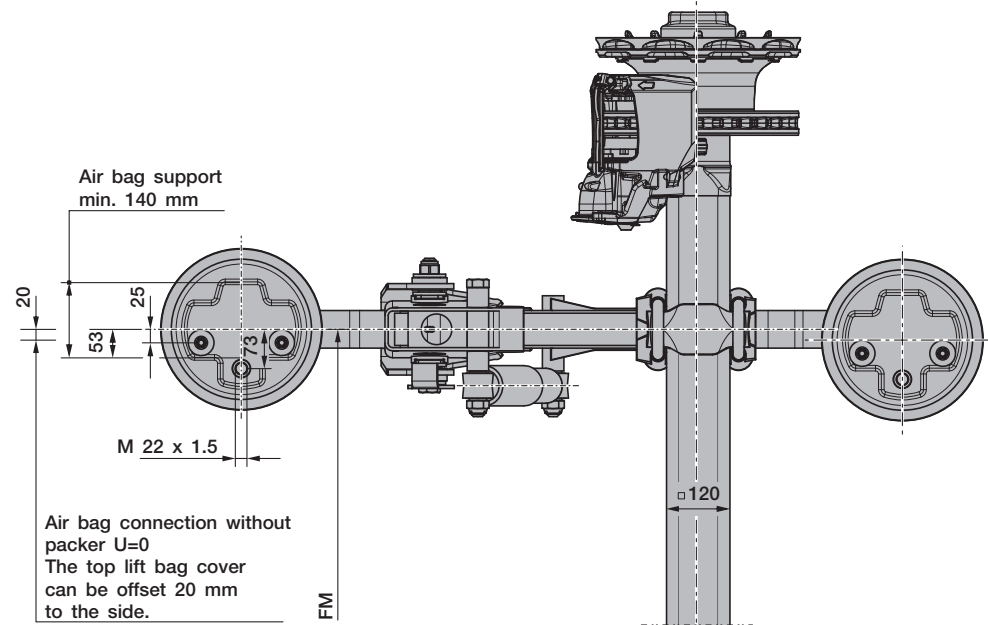
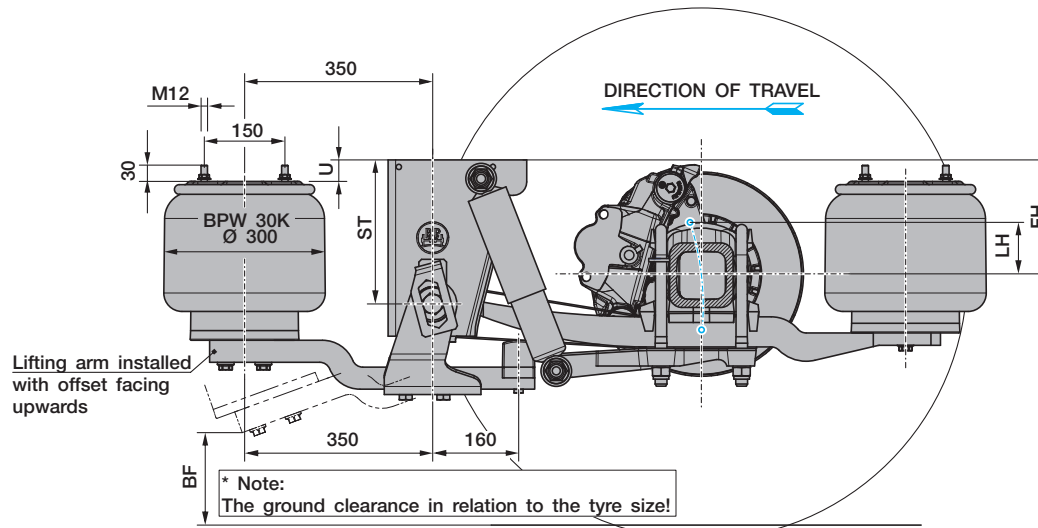
- Max. inclination angle of the semitrailer under full load and lowest adjustable ride height ±1°
- With trailing arm L1 = 500 / L2 = 380, bag pressures acc. to TE1188.0 sheet 15
- The hanger brackets, air bag supports and the frame must be reinforced so that the forces applied can be absorbed (see the current BPW installation instructions).

With an axle load ratio - rigid axle to steering axle - of 1:1, in suspension units with a lifting axle and when using central lubrication systems, the steering axle must be equipped with a steering damper.

Series	Steering tie rod position	Steering damper parts kit	Drawing
ALULL	312 / 35	05.872.00.70.0	04.00.568335

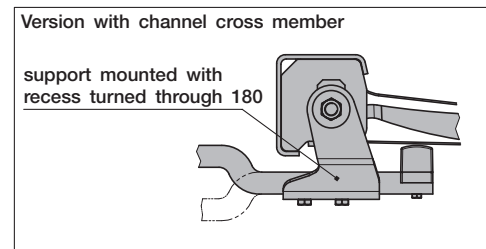
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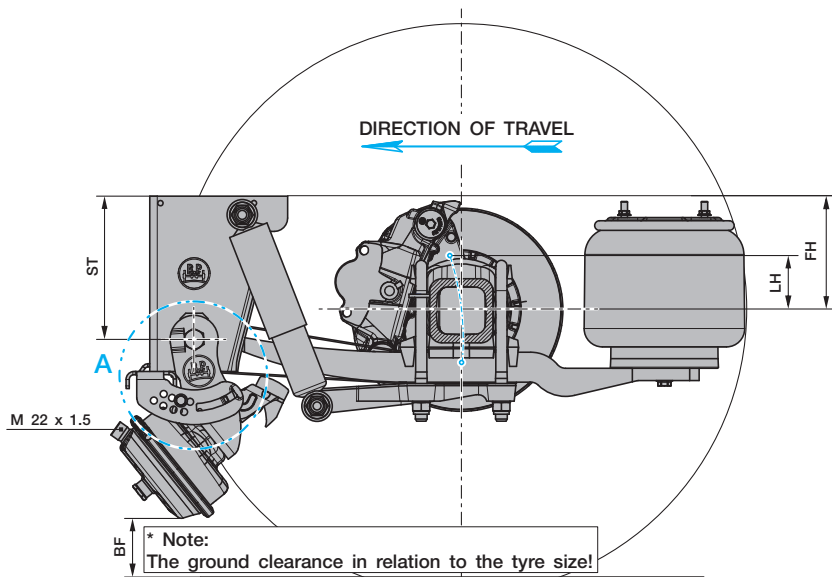
Suspensions to drawing	Adjustable ride height FH		min. lifting stroke LH	Hanger bracket height ST	Ground clearance BF <sup>1)</sup>	Packer U	BPW no. 05.828...	
	for axle units	min. FH with axle raised					Hanger bracket <sup>6)</sup>	Channel cross member
Sheet 15 + 15a	215 - 255 <sup>4)</sup>	245	100	268	275	0 <sup>2)</sup>	...31.84.0	...31.85.0
Sheet 16 + 16a	245 - 290 <sup>4)</sup>	275	100	268	325	0		
Sheet 16b + 16c	270 - 300 <sup>4)</sup>	300	100	268	350	0		
Sheet 16d + 16e	225 - 350 <sup>3) 5)</sup>	255	100	268	143	0 <sup>2)</sup>		
Sheet 16f + 16g	240 - 345 <sup>3)</sup>	270	100	268	213	0		

- <sup>1)</sup> Ground clearance in relation to the set minimum ride height with the axle raised.  
\* Tyre: 385/65 R 22.5 (r<sub>stat</sub> = 496)  
In the case of smaller tyres, it is necessary to check whether the doublesided axle lift can be used, according to the application.
- <sup>2)</sup> A 40 mm tall packer is possible as an alternative. The packer is not included in supplied package.
- <sup>3)</sup> Lifting arm installed with offset turned facing downwards
- <sup>4)</sup> Lifting arm installed with offset turned facing upwards
- <sup>5)</sup> Due the lower ground clearance, it is necessary to check whether the one-sided axle lift can be used, according to the application.
- <sup>6)</sup> Lifting device for bolt-on bracket on demand.



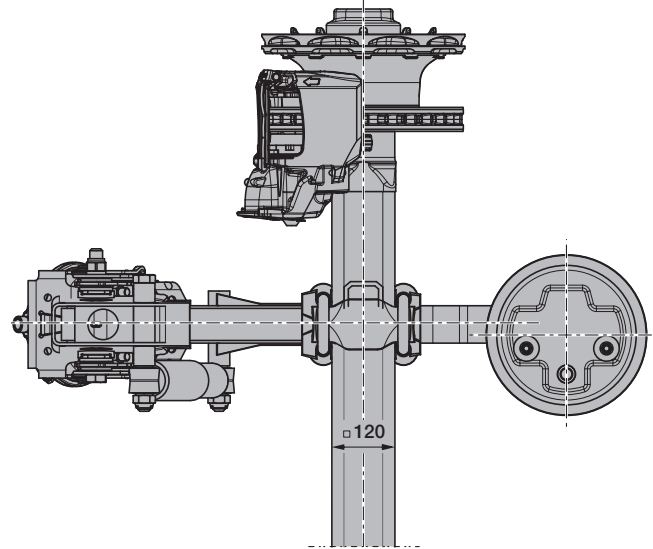
- › The pressure for the lift bag must be limited to 5 bar with a reduction valve.
- › The hanger brackets, air bag supports and the frame must be reinforced so that the forces applied can be absorbed (see the current BPW installation instructions).

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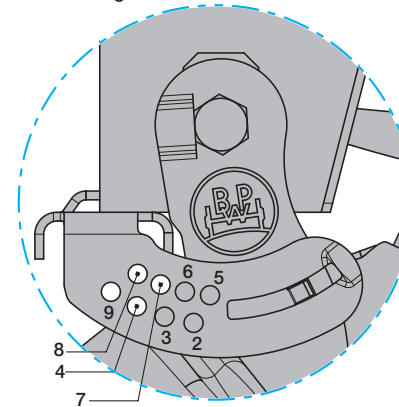


Suspensions to drawing	Adjustable ride height FH		min. lifting stroke LH	Hanger bracket height ST	Ground clearance BF <sup>1)</sup>		Position lift stop no.	BPW no. 05.828...		
	for axle units	min. FH with axle raised			Version A <sup>2)</sup>	Version B <sup>2)</sup>		Hanger bracket <sup>4)</sup>		Channel cross member
								Version A <sup>2)</sup>	Version B <sup>2)</sup>	
Sheet 15 + 15a	215 - 255 <sup>3)</sup>	245	100	268	143	133	7	...31.81.0	...32.10.0	...31.82.0
Sheet 16 + 16a	245 - 290 <sup>3)</sup>	275	100	268	176	166	4			
Sheet 16b + 16c	270 - 300 <sup>3)</sup>	300	100	268	205	195	8			

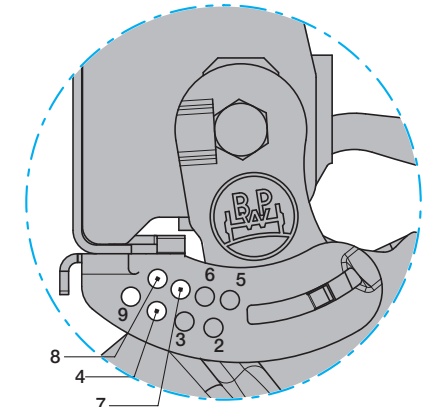
- 1) Ground clearance in relation to the set minimum ride height with the axle raised.  
\* Tyre: 385/65 R 22.5 (r<sub>stat</sub> = 496)  
In the case of smaller tyres, it is necessary to check whether the doublesided axle lift can be used, according to the application.
- 2) Version A for 9 t and 10 t single tyre fitment, version B for 10 t twin tyre fitment
- 3) Due the lower ground clearance, it is necessary to check whether the two-sided axle lift can be used, according to the application.
- 4) Lifting device for bolt-on bracket on demand.



Detail A  
Version with hanger bracket



Detail A  
Version with channel cross member



- › In the lifting and lowering version, the total spring travel must be limited by a shutoff valve.
- › Minimum air pressure for lifting the axle approx. 6 bar.
- › 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).

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