



Series	Image	Air suspension axles and suspensions	Axle load	Air Bag		Axle type with drum brake			Ride height FH (mm)	to drawing AL II-SN.0
				30/30K	36/36K/36-1	SN 4218/4220	SN 3020	SN 3620		
ALO		Air suspension axles	9t	x	-	HSF.. HZF..	---	---	390-565	Sheet 1
			9t	-	x					Sheet 2
			10t / 11,8t	-	x					Sheet 2a
		Steering axles LL with 3D-trailing arm	9t	x	-	HSFH..LL	---	---	430-565	Sheet 3
			9t	-	x					Sheet 4
			10t	-	x					Sheet 4a
		Steering axles LL with trailing arm	9t	x	-	HSFH..LL MSFH..LL	---	---	430-565	Sheet 5
			9t	-	x					Sheet 6
			10t / 11,8t	-	x					Sheet 6a
		Two-sided lifting device	9t - 11,8t							Sheet 7a
ALM / ALMT		Air suspension axles	9t	x	-	HSF.. HZF..	---	---	245 - 420	Sheet 8
			9t	-	x					Sheet 9
			10t / 11,8t (ALMT nur bis 10t)		x					Sheet 9a
		Steering axles LL with 3D-trailing arm	9t	x	-	HSFH..LL	---	---	255 - 420	Sheet 10
			9t	-	x					Sheet 11
			10t	-	x				350 - 420	Sheet 11a
		Steering axles LL with trailing arm	9t	x	-	HSFH..LL MSFH..LL	---	---	350 - 420	Sheet 12
			9t	-	x					Sheet 13
			10t / 11,8t	-	x					Sheet 13a
		Two-sided lifting device	9t - 11,8t							Sheet 14a

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Series	Air suspension axles and suspensions	Axle load	Air Bag		Axle type with drum brake			Ride height FH (mm)	to drawing AL II-SN.0	
			30/30K	36/36K/36-1	SN 4218/4220	SN 3020	SN 3620			
ALU		9t	x	-	HSF.. HZF..	---	---	175 - 300	Sheet 15	
		9t	-	x					Sheet 16	
		10t / 11,8t	-	x					Sheet 16c	
		9t	x	-	---	NHZF...	---	175 - 300	Sheet 15a	
		9t	-	x					Sheet 16a	
		10t / 11t / 12t	-	x					Sheet 16d	
		9t	x	-	---	---	KHSF.. KHZF...	175 - 300	Sheet 15b	
		9t	-	x					Sheet 16b	
		10t / 12t	-	x					Sheet 16e	
		Air suspension axles (air bag with long stroke)	9t	-	36-1	---	---	KHSF.. KHZF...	185 - 350	Sheet 16f
		9t / 10t	-	36-1	---	NHZF...	---	230 - 345	Sheet 16g	
		9t / 10t	-	36-1	---	---	KHSF.. KHZF...	230 - 345	Sheet 16h	
		Steering axles LL with trailing arm	9t	x	-	HSFH..LL	---	---	215 - 300	Sheet 17
			10t / 11,8t	-	x					Sheet 17c
			9t	x	-	---	NHZF..LL NMZF..LL	---	215 - 300	Sheet 17a
			12t	-	x					Sheet 17d
12t	-	x	---	---	KMZF..LL	215 - 300	Sheet 17e			
One-sided lifting device	9t - 12t								Sheet 19	
Two-sided lifting device	9t - 12t								Sheet 19a	

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

Series	to drawing AL II - SN.0	Line	Weight of air suspension parts	Weight of clamped axle mounting	Weight of welded axle mounting	FM 900						FM 980				FM 1200			FM 1300			FM 1400	
						SP 1820 (9t)	SP 1820 (10t)	SP 1820 (11,8t)	SP 1820 (9t)	SP 1820 (10t)	SP 1820 (11,8t)	SP 1880 (10t)	SP 1880 (11,8t)	SP 2040 (9t)	SP 2040 (10t)	SP 2040 (11,8t)	SP 2040 (9t)	SP 2040 (10t)	SP 2040 (11,8t)	SP 2095 (9t)	SP 2095 (9t)	SP 2140 (9t)	
						ALO	Sheet 1	1	93	31		315 (120x15)			315 (120x15)				298 (120x10)			298 (120x10)	
2	97																						
3	100																						
4	111																						
Sheet 2	1	101	31		315 (120x15)				315 (120x15)				298 (120x10)			298 (120x10)			301 (120x10)	301 (120x10)	302 (120x10)		
	2	106																					
	3	108																					
	4	119																					
Sheet 2a	1	103	31 <sup>1)2)</sup>	42			358 (120x15)	372 (120x17)				360 (120x15)	375 (120x17)		357 (120x15)	374 (120x17)		357 (120x15)	374 (120x17)				
	2	108																					
	3	111																					
	4	122																					
ALM / ALMT	Sheet 8	1	97	31		315 (120x15)			315 (120x15)				298 (120x10)			298 (120x10)			301 (120x10)	301 (120x10)	302 (120x10)		
		2	99																				
		3	102																				
		4	98																				
		5	104																				
		6	103																				
		7	105																				
	Sheet 9	1	105	31		315 (120x15)			315 (120x15)					298 (120x10)			298 (120x10)			301 (120x10)	301 (120x10)	302 (120x10)	
		2	108																				
		3	111																				
		4	106																				
		5	113																				
		6	111																				
		7	113																				
	Sheet 9a	1	109	31 <sup>1)2)</sup>	42 <sup>3)</sup>		358 (120x15)	372 (120x17)				360 (120x15)	375 (120x17)		357 (120x15)	374 (120x17)		357 (120x15)	374 (120x17)				
		2	112																				
		3	114																				
		4	112																				
		5	117																				
		6	116																				
		7	119																				

<sup>1)</sup> for clamped axle mounting and 10t axle load, min. FM 1100

<sup>2)</sup> >10t axle load only welded axle insert

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

SP = track  
FM = spring centre

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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	to drawing AL II - SN.0	Line	Weight of air suspension parts	Weight of clamped axle mounting	Weight of welded axle mounting	FM 900			FM 980				FM 1200			FM 1300			FM 1400						
						SP 1820 (9t)	SP 1820 (10t)	SP 1820 (11,8t)	SP 1820 (9t)	SP 1820 (10t)	SP 1820 (11,8t)	SP 1880 (10t)	SP 1880 (11,8t)	SP 2040 (9t)	SP 2040 (10t)	SP 2040 (11,8t)	SP 2040 (9t)	SP 2040 (10t)	SP 2040 (11,8t)	SP 2095 (9t)	SP 2095 (9t)	SP 2140 (9t)			
ALU	Sheet 15	1	93	37																					
		2	98																						
		3	100					315 (120x15)						298 (120x10)				298 (120x10)				301 (120x10)		302 (120x10)	
		4	100																						
	Sheet 16	1	101	37																					
		2	106																						
		3	108																						
		4	108																						
	Sheet 16c	1	103	37 <sup>1) 2)</sup>	46																				
		2	108																						
		3	111																						
		4	111																						
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																			

<sup>1)</sup> for clamped axle mounting and 10t axle load, min. FM 1100

<sup>2)</sup> >10t axle load only welded axle insert

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

SP = track

FM = spring centre

**Additional weight per axle**

- > Bolt-on bracket = 8 kg
- > Air bag BPW 30, offset V=60 = 4,2 kg
- > Air bag BPW 30, offset V=60 = 3,7 kg
- > Axle beam from 120x10 to 150x15 = 0,0115 kg x track (SP)
- > Axle beam from 120x15 to 150x17 = 0,008 kg x track (SP)

Series	Trailing arm			Additional weight per axle
	L1	L2	thickness	
ALO / ALU	500	380	1x56	4 kg
			1x62	9,4 kg
		380 + 405	1x65	17,4 kg
			1x62	2,4 kg
ALM	380	1x65	12 kg	
		1x62	5,6 kg	
ALMT	380	1x65	13,2 kg	
		380	1x62	3,9 kg

**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

**Determining the total weight**

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



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

Series	to drawing AL II - SN.0	Line	Weight of air suspension parts	Weight of clamped axle mounting	Weight of welded axle mounting	Weight variations are within the permitted DIN tolerances for the production process, given in kg.																		
						FM 900	FM 980							FM 1100										
						SP 1830 (10t)	SP 1830 (9t)	SP 1830 (10t/11t)	SP 1830 (12t)	SP 1835 (9t)	SP 1880 (9t)	SP 1880 (10t)	SP 1880 (12t)	SP 1885 (9t)	SP 1930 (10t)	SP 1930 (12t)	SP 1935 (9t)	1950 (9t)	1950 (10t/11t)	1950 (12t)	1995 (9t)	1995 (10t)	1995 (12t)	
ALU	Sheet 15a	1	93	37			263 (120x10)				285 (120x15)						268 (120x10)			291 (120x15)				
		2	98																					
		3	100																					
		4	100																					
	Sheet 15b	1	93	37						299 (120x10)										323 (120x15)				
		2	98																					
		3	100																					
		4	100																					
	Sheet 16a	1	101	37			263 (120x10)				285 (120x15)							268 (120x10)			291 (120x15)			
		2	106																					
		3	108																					
		4	108																					
	Sheet 16b	1	101	37						299 (120x10)										323 (120x15)				
		2	106																					
		3	108																					
		4	108																					
	Sheet 16d	1	103	37 <sup>1)</sup>	46			294 (120x15) 11to	308 (120x17)			297 (120x15)	311 (120x17)						302 (120x15) 11to	316 (120x17)	304 (120x15)	318 (120x17)		
		2	108																					
		3	111																					
		4	111																					
Sheet 16e	1	103	37 <sup>1)</sup>	46		330 (120x15)				333 (120x15)	345 (120x17)		335 (120x15)	347 (120x17)										
	2	108																						
	3	111																						
	4	111																						
Sheet 16f	1	135	38						299 (120x10)															
	2	140																						
Sheet 16g	1	175		43		263 (120x10)	294 (120x15) 10to										268 (120x10)	302 (120x15) 10to						
Sheet 16h	1	175		43			326 (120x15) 10to			329 (120x15)														
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												

<sup>1)</sup> for clamped axle mounting and 10t axle load, min. FM 1100



Series	to drawing AL II - SN.0	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 1200			FM 1300	
						SP 2005 (9t)	SP 2040 (9t)	SP 2045 (9t)	SP 2040 (9t)	SP 2045 (9t)
ALU	Sheet 15a	1	93	37						
		2	98							
		3	100							
		4	100							
	Sheet 15b	1	93	37						
		2	98			315 (120x10)	308 (120x10)	315 (120x10)	308 (120x10)	
		3	100							
		4	100							
	Sheet 16a	1	101	37						
		2	106							
		3	108							
		4	108							
	Sheet 16b	1	101	37						
		2	106			315 (120x10)	308 (120x10)	315 (120x10)	308 (120x10)	
		3	108							
		4	108							
	Sheet 16d	1	103	37 <sup>1)</sup>	46					
		2	108							
		3	111							
		4	111							
Sheet 16e	1	103	37 <sup>1)</sup>	46						
	2	108								
	3	111								
	4	111								
Sheet 16f	1	135	38		307 (120x10)		308 (120x10)		308 (120x10)	
	2	140								
Sheet 16g	1	175		43						
Sheet 16h	1	175		43	307 (120x10)				308 (120x10)	

<sup>1)</sup> for clamped axle mounting and 10t axle load, min. FM 1100

**Note on weight specifications**

- > Trailing arm length L2 bei ALU = 310 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**

- > Bolt-on bracket = 8 kg
- > Air bag BPW 30, offset V=60 = 4,2 kg
- > Air bag BPW 30, offset V=60 = 3,7 kg
- > Axle beam from 120x10 to 150x15 = 0,0115 kg x track (SP)
- > Axle beam from 120x15 to 150x17 = 0,008 kg x track (SP)

Series	Trailing arm			Additional weight per axle	
	L1	L2	Thickness		
ALU	500	380	1x56	4 kg	
			1x62	9,4 kg	
		310	380 + 405	1x65	17,4 kg
			1x62	2,4 kg	
		1x65	12 kg		

**Determining the total weight**

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

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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	to drawing AL II - SN.0	Line	Weight of air suspension parts	Weight of clamped axle mounting	Weight of welded axle mounting	FM 730	FM 780	FM 840			FM 900	FM 980		FM 1080 (1030)				
						SP 1875	SP 1925	SP 1945	SP 1985	SP 1990	SP 2045	SP 2040	SP 2045	SP 2040	SP 2090	SP 2095	SP 2095	SP 2140
ALO	Sheet 3	2	116															
		3	119	31														
		4	130															
	Sheet 4	2	120															
		3	123	31														
		4	134															
	Sheet 4a	2	120															
		3	123	31	43													
		4	134															
	Sheet 5	2	103															
		3	106	31														
		4	117															
	Sheet 6	2	108															
		3	111	31														
		4	122															
Sheet 6a	2	108																
	3	111	31 <sup>1)</sup>	42														
	4	122																
ALM / ALMT	Sheet 10	1	109															
		2	112															
		5	114	31														
		6	118															
		7	121															
	Sheet 11	6	123	31														
		7	126															
	Sheet 11a	6	123	31	43													
		7	126															
	Sheet 12	6	112	31														
		7	115															
	Sheet 13	6	116	31														
		7	119															
	Sheet 13a	6	116															
		7	119	31 <sup>1)</sup>	42													

<sup>1)</sup> solid axle only with welded axle mounting

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

Series	to drawing AL II - SN.0	Line	Weight of air suspension parts	Weight of clamped axle mounting	Weight of welded axle mounting	FM 730	FM 780	FM 840			FM 900	FM 980		FM 1080 (1030)			
						SP 1875	SP 1925	SP 1945	SP 1985	SP 1990	SP 2045	SP 2040	SP 2045	SP 2040	SP 2090	SP 2095	SP 2095
ALU	Sheet 17	2	111	37								446 (120x15)			448 (120x15)	451 (120x15)	
		3	113														
		4	113														
	Sheet 17c	2	120	37 <sup>1)</sup>	46							485 (120x17)	560 (solid axle)	483 (120x15)	565 (solid axle) FM 1030		
		3	123														
		4	123														
	Sheet 17a	2	111	37					438 (120x15)	440 (120x15)							
		3	113														
		4	113														
	Sheet 17d	2	123		46				497	501							
		3	126														
		4	126														
	Sheet 17e	2	123		46		511	516									
		3	126														
		4	126														
Lift	Sheet 7a, 14a, 19a					Two-sided lifting device Version Hanger bracket (9to)						34 kg					
						Two-sided lifting device Version Hanger bracket (12to)						36 kg					
						Two-sided lifting device Version Channel cross member (9to)						33 kg					
	Sheet 19					One-sided lifting device						29 kg					

<sup>1)</sup> solid axle only with welded axle mounting

**Note on weight specifications**

- > Trailing arm at ALO/ALU 1x62, L2 = 380 mm
- > Trailing arm at ALM/ALMT 1x62, L2 = 380 mm
- > Trailing arm at ALO/ALM 3D (seitlich gebogen) 1x65, L2 = 380
- > Trailing arm at ALMT 3D (seitlich gebogen) 1x62, 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**

- > Bolt-on bracket = 8 kg
- > Steering damper parts kit = 2 kg
- > Axle beam from 120x15 to 150x17 = 0,008 kg x track (SP)

Series	Trailing arm			Additional weight per axle
	L1	L2	Thickness	
ALO / ALU	500	380 + 405	1x65	8 kg
ALM		380	1x65	7,6 kg

**Determining the total weight**

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

Rev. 11 (10) 16.01.2017

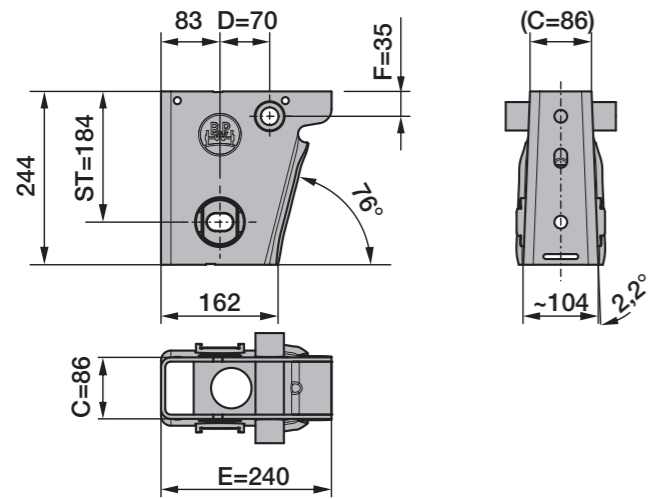
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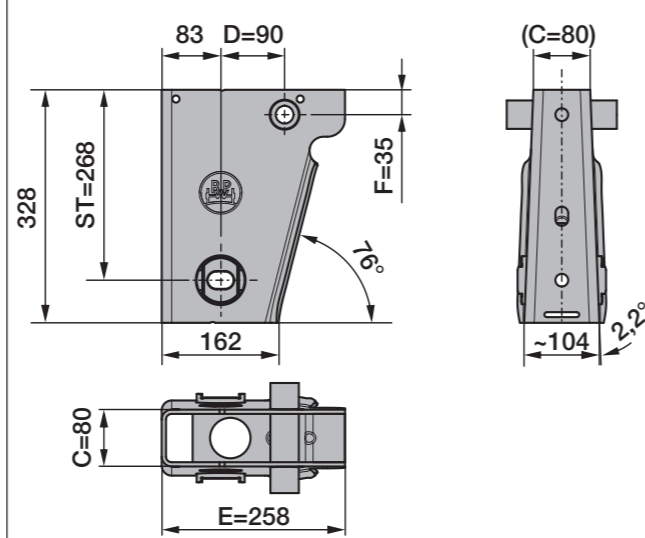


Standard brackets AL II for single leaf trailing arms

05.375.44.23.0

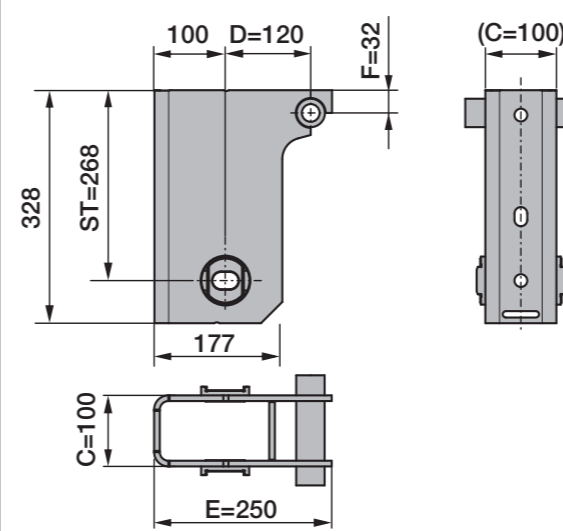


05.375.44.22.0



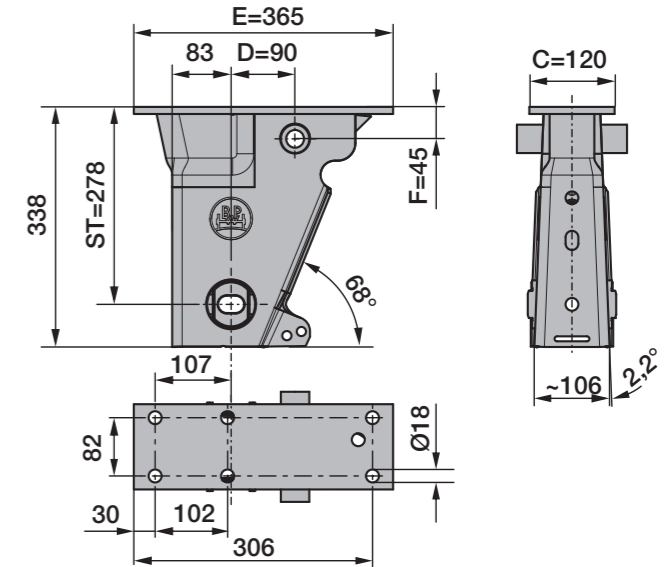
Standard brackets AL II for single leaf trailing arms and double leaf trailing arms

05.375.44.63.0

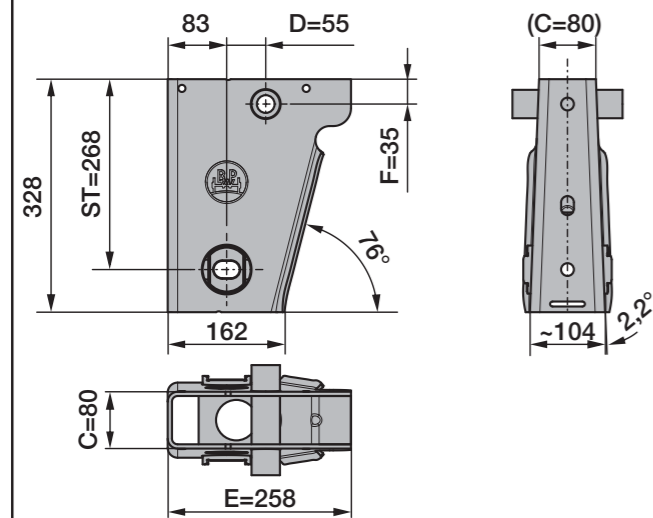


Bolt-on bracket AL II for single leaf trailing arms (max. 9t)

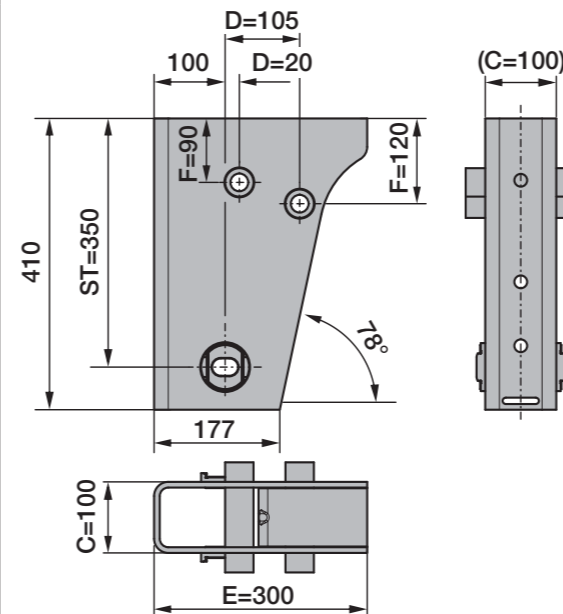
05.375.44.41.0



05.375.44.60.0



05.375.44.64.0



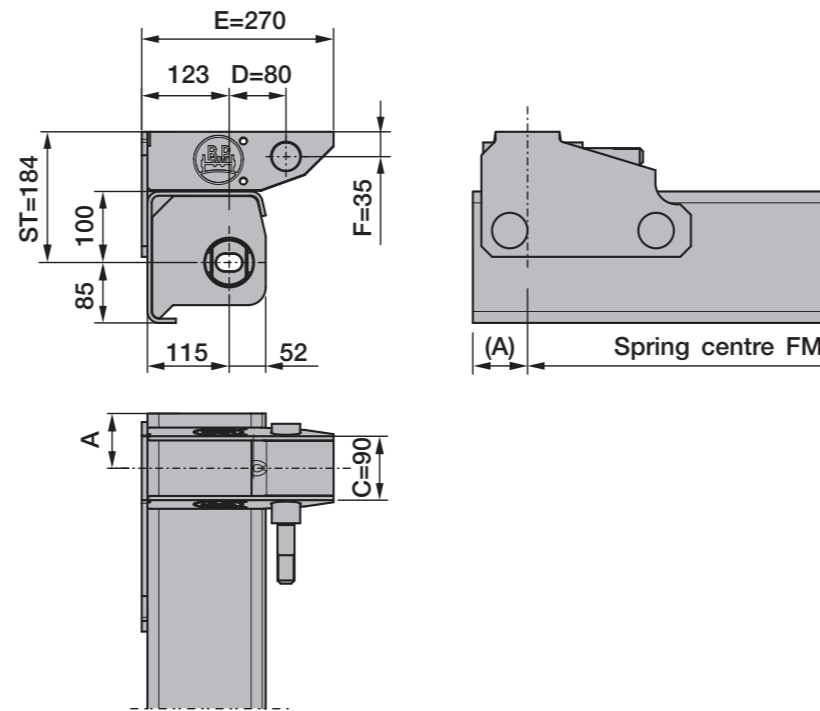
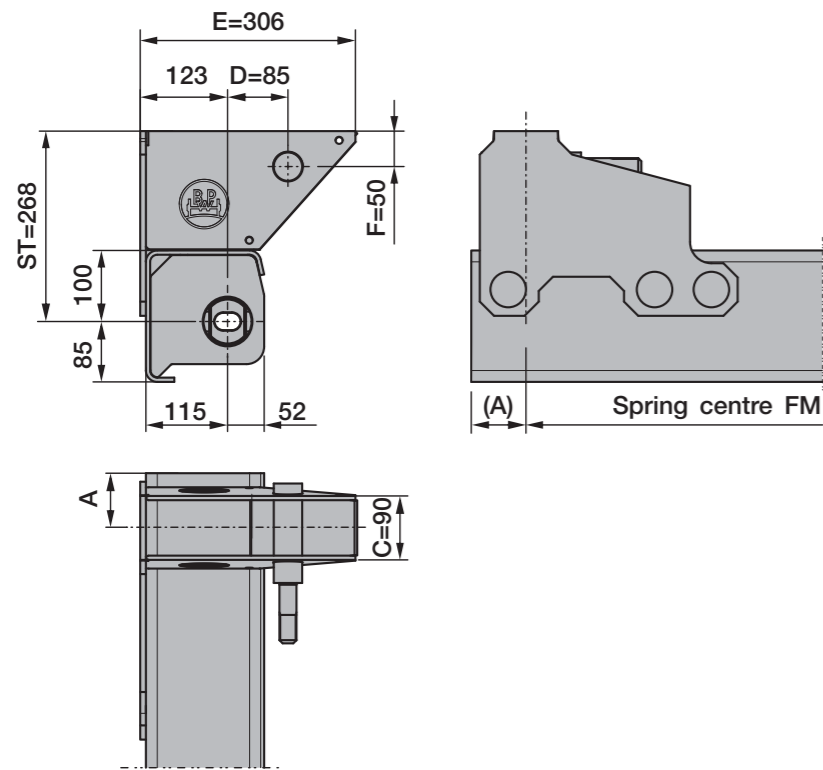
Note:

- > The hanger brackets and the frame must be reinforced so that the forces applied can be absorbed. See the current Installation instructions C-04.00.509610
- > 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.

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

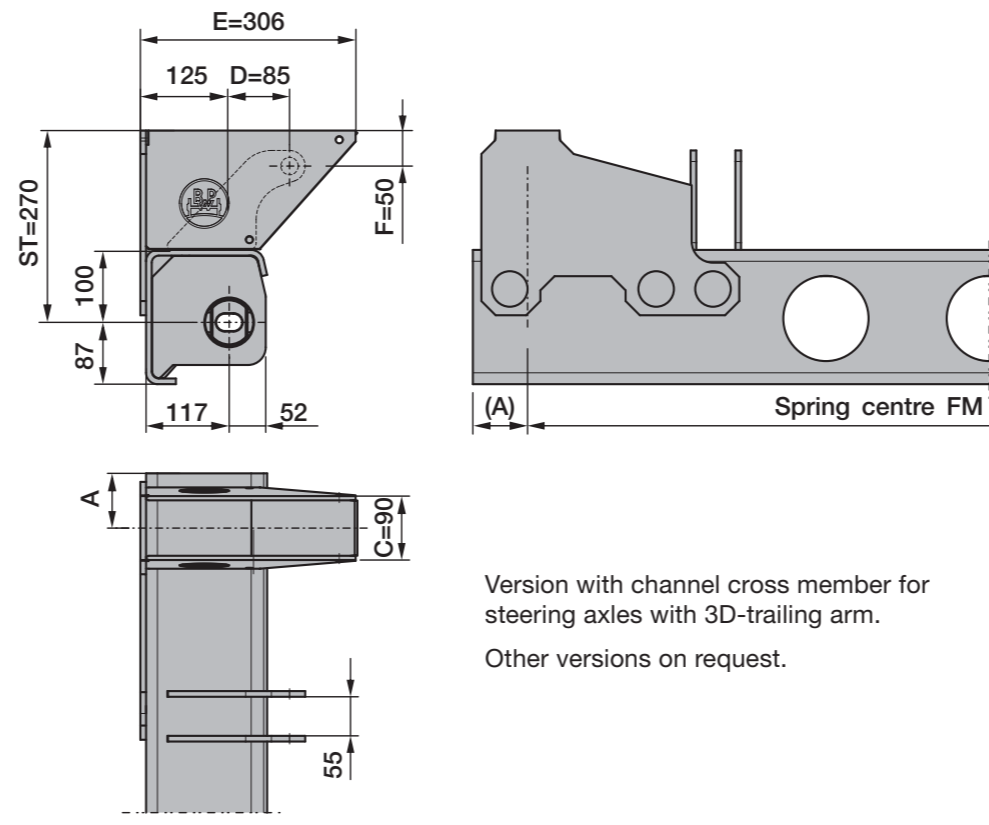
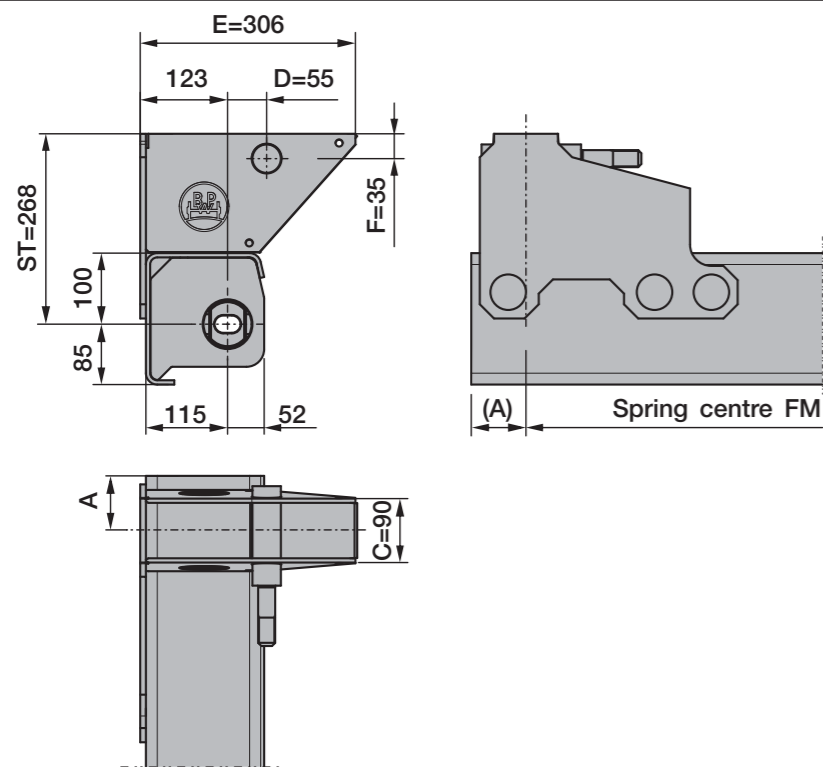
**Note:**

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  
HSFALO 9010 C V30 -> version with channel cross member



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Series	to drawing AL II - SN.0	Trailing arm				Axle load kg	Height of centre of gravity max.								
		05.082..	Thickness	L1	L2		Spring centre FM								
							900	980	1030	1080	1100	1200	1300	1400	
ALO	Sheet 1 Sheet 2	..13.90.2	1x56	500	310	8000	---	---	---	---	---	2800	3000	3200	
		..13.89.2				9000	---	---	---	---	---	2500	2700	2850	
		..14.02.2	1x62		310	8000	2750	2950	---	---	---	---	---	---	
		..13.96.2				9000	2450	2650	---	---	---	---	---		
	Sheet 2a	..14.02.2	1x62	500	310	10000	---	---	---	---	---	---	2800	3000	---
		..13.96.2					380	---	---	---	---	---	2800	3000	---
		..14.34.2	1x65		310		2350	2550	---	---	---	---	---	---	
		..14.43.2					380/405	2350	2550	---	---	---	---	---	
		..14.34.2			310		2100	2200	---	---	---	2550	2700	---	
		..14.43.2					380/405	11800	2100	2200	---	---	---	2550	2700
	Sheet 3 Sheet 4	..14.45.2/46.2	1x65	500	380/405	8000	---	3200	---	3450	---	---	---		
	Sheet 4a	..14.45.2/46.2	1x65	500	380/405	9000	---	2900	---	3150	---	---	---		
	Sheet 5 Sheet 6	..13.96.2	1x62	500	380	10000	---	2600	---	2850	---	---	---	---	
						8000	---	2950	---	3150	---	---	---		
	Sheet 6a	..14.43.2	1x65	500	380/405	8000	---	2950	---	3150	---	---	---	---	
						9000	---	2650	---	2850	---	---	---		
ALM / ALMT	Sheet 8 Sheet 9	..13.88.2 <sup>1)</sup>	1x56	500	380	10000	---	2550	---	2700	---	---	---		
		..14.09.2 <sup>2)</sup>				8000	---	3200	---	3450	---	---	---		
		..13.95.2 <sup>1)</sup>	1x62			8000	2750	2950	---	---	---	---	---		
		..14.12.2 <sup>2)</sup>				9000	2450	2650	---	---	---	---	---		
	Sheet 9a	..13.95.2 <sup>1)</sup>	1x62	500	380	10000	---	2600	---	2850	---	---	---		
		..14.12.2 <sup>2)</sup>				8000	---	2950	---	3150	---	---	---		
		..14.44.2 <sup>1)</sup>	1x65			380/405	11800	2100	2200	---	---	---	2550	2700	---
	Sheet 10 Sheet 11	..14.47.2/48.2 <sup>1)</sup>	1x65	500	380/405	8000	---	3200	---	3450	---	---	---		
						9000	---	2900	---	3150	---	---	---		
		..14.13.2/14.2 <sup>2)</sup>	1x62		380	8000	---	2950	---	3150	---	---	---		
						9000	---	2650	---	2850	---	---	---		
	Sheet 11a	..14.47.2/48.2 <sup>1)</sup>	1x65	500	380/405	10000	---	2600	---	2850	---	---	---		
	Sheet 12 Sheet 13	..13.95.2 <sup>1)</sup>	1x62	500	380	8000	---	2950	---	3150	---	---	---		
						9000	---	2650	---	2850	---	---	---		
	Sheet 13a	..14.44.2 <sup>1)</sup>	1x65	500	380/405	10000	---	2550	---	2700	---	---	---		
						11800	2100	---	2250	---	---	---	---		

<sup>1)</sup> Series ALM

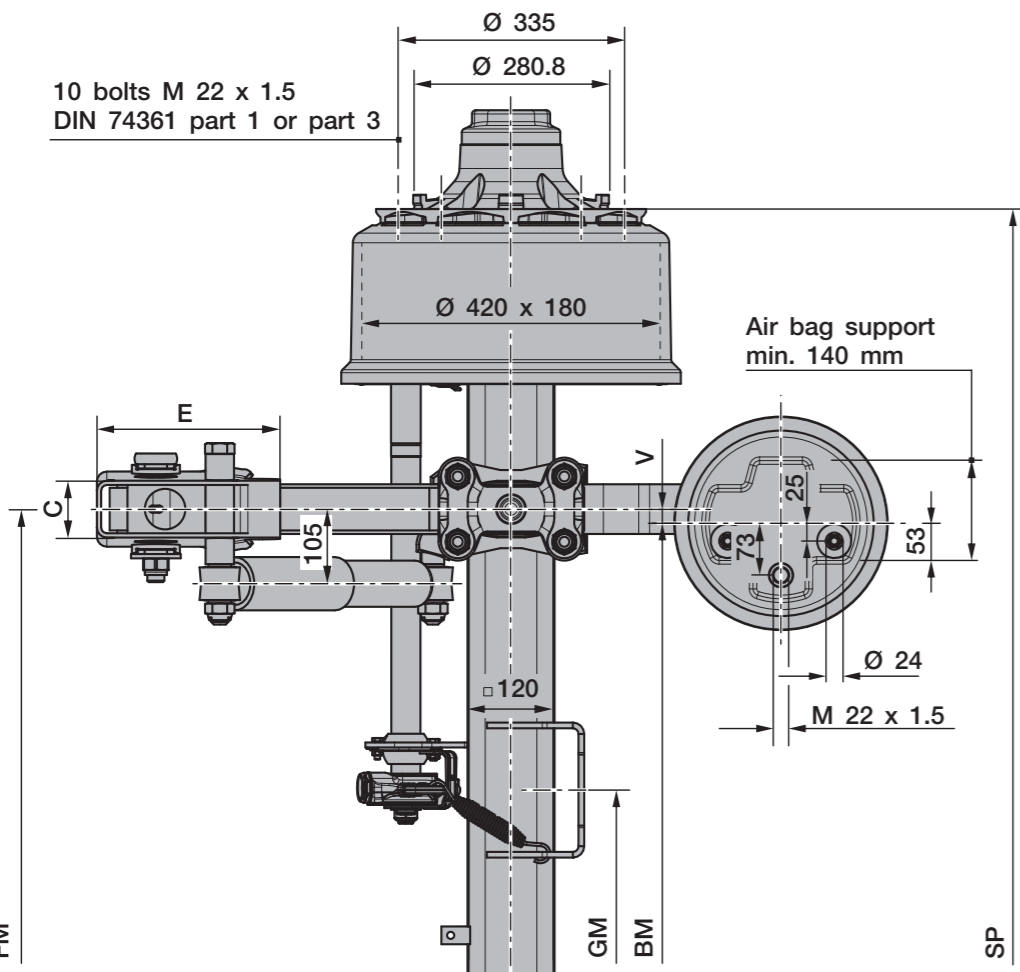
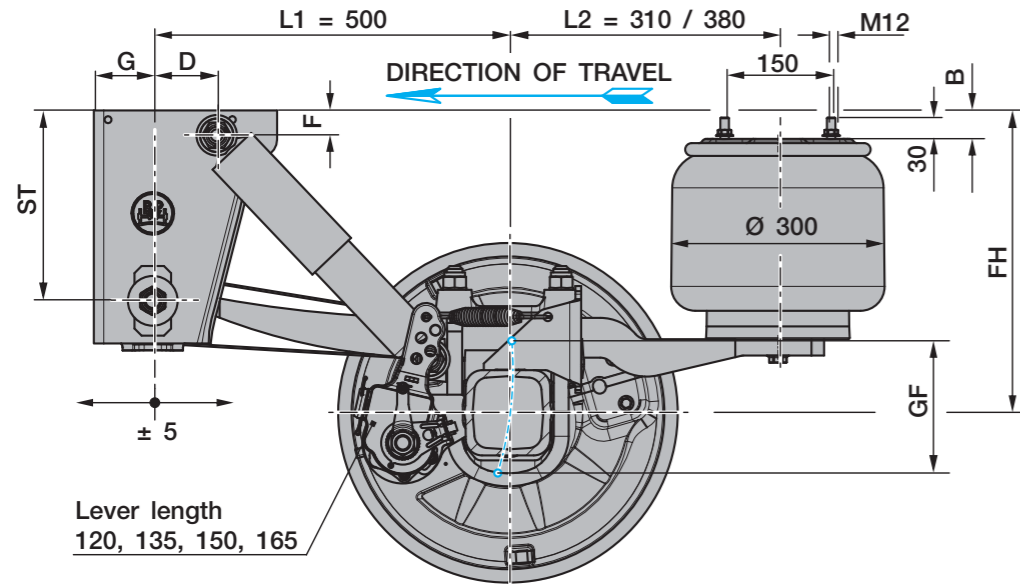
<sup>2)</sup> Series ALMT



Series	to drawing AL II - SN.0	Trailing arm				Axle load kg	Height of centre of gravity max.								
		05.082..	Thickness	L1	L2		Spring centre FM								
							900	980	1030	1080	1100	1200	1300	1400	
ALU	Sheet 15 Sheet 15a Sheet 15b Sheet 16 Sheet 16a Sheet 16b	..13.90.2	1x56	500	310	8000	---	---	---	---	2300	2500	2650	2850	
		..13.89.2				9000	---	---	---	---	2050	2200	2350	2550	
		..13.96.2	1x62	500	380	8000	---	---	---	---	---	2300	2500	2650	2850
						9000	---	---	---	---	2050	2200	2350	2550	
						8000	---	2650	---	---	---	---	---	---	
						9000	---	2250	---	---	2500	---	---	---	
		..14.02.2	1x62	500	310	8000	---	2650	---	---	---	---	---	---	
		9000				---	2250	---	---	2500	---	---	---		
	..14.02.2	380			10000	---	---	---	---	---	2200	2400	2600	---	
	..13.96.2					---	---	---	---	---	2200	2400	2600	---	
	..14.34.2	1x65			500	310	2050	2200	---	---	2450	---	---	---	
	..14.43.2					380/405	2050	2200	---	---	2450	---	---	---	
	..14.34.2					310	---	2000	---	---	2200	---	---	---	
	..14.43.2					380/405	---	2000	---	---	2200	---	---	---	
	..14.34.2		310	11800 /		---	1850	---	---	2050	2250	2400	---		
	..14.43.2		380/405	12000		---	1850	---	---	2050	2250	2400	---		
	Sheet 16f	..14.39.2	1x62	620	365	8000	---	2050	---	---	---	2450	2600	---	
						9000	---	1800	---	---	---	2200	2350	---	
	Sheet 16g Sheet 16h	..14.41.2	2x56	690	310/335	8000	---	2400	---	---	2900	3400	3850	---	
						9000	---	2200	---	---	2650	3100	3550	---	
					10000	---	2000	---	---	2400	---	---	---		
Sheet 17	..13.96.2	1x62	500	380	8000	---	2650	---	2850	---	---	---	---		
					9000	---	2250	---	2450	---	---	---	---		
Sheet 17c	..14.43.2	1x65	500	380/405	10000	---	2200	---	2400	---	---	---	---		
					11800	---	1850	1950	---	---	---	---	---		

Series	to drawing AL II - SN.0	Trailing arm				Axle load kg	Height of centre of gravity max.							
		05.082..	Thickness	L1	L2		Spring centre FM							
							730	780	840					
ALU	Sheet 17a Sheet 17d	..13.96.2	1x62	500	380	8000	---	---	2300	---	---	---	---	---
		..14.43.2				9000	---	---	2000	---	---	---	---	---
	Sheet 17e	..14.43.2	1x65	500	380/405	12000	---	---	1650	---	---	---	---	
						12000	1450	1550	---	---	---	---	---	

Rev. 1 (10) 16.01.2017  
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
		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	---
2	ALO	420 - 470	430 - 470	460	360	345	190	30K	...22.83.02	268	80	258	83	90	35	---
3	ALO	450 - 510	460 - 510	490	390	375	220	30	...22.88.02	268	80	258	83	90	35	---
4	ALO	500 - 565	510 - 565	540	440	425	220	30	...22.88.02	350	100	300	100	105	120	40

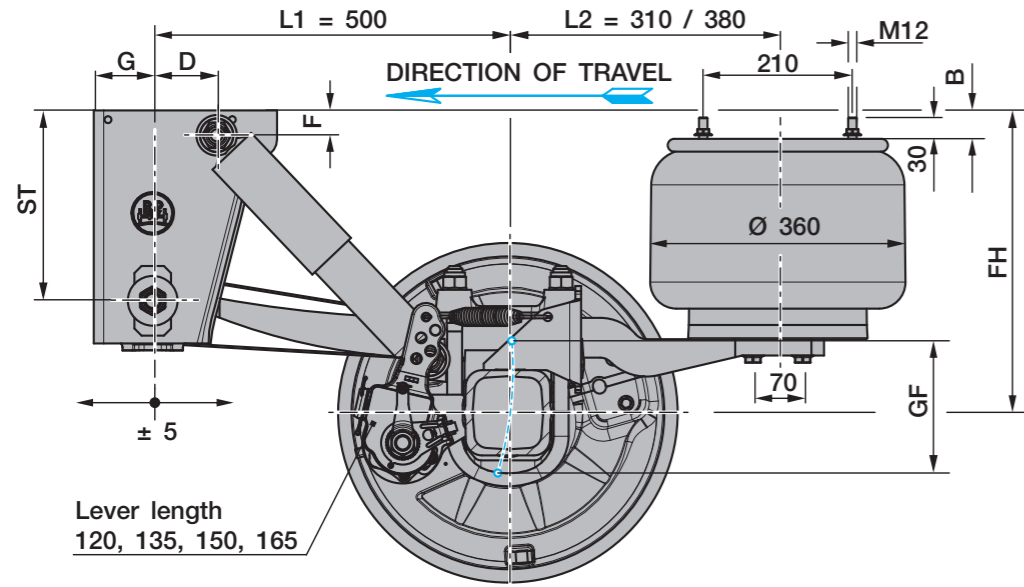
<sup>1)</sup> Lifting heights acc. to TD-1242.0  
<sup>2)</sup> The packer is not included in supplied package.  
<sup>3)</sup> Only suitable for semi-trailers / Centre axle drawbar trailer

Axle type	Track SP	Spring centre FM	Booster bracket centre GM	Air bag centre BM		Brake cylinder <sup>4)</sup>	Tyres recommended
				V=20	V=60		
HSF...9010	2040	1200	409	1160	1080	M / F	385/65 R22.5 385/55 R22.5
		1300		1260 <sup>5)</sup>	1180		
	2095	1300	464	1260	1180		
HZF...9010	1820	900	239	860	780	M / (F) <sup>5)</sup>	275/70 R22.5
		980		940	860		
	1880	980	299	940	860		

<sup>4)</sup> M = for diaphragm cylinder / F = for spring brake cylinder  
<sup>5)</sup> at V=60 only diaphragm cylinder  
<sup>6)</sup> V=20 only with trailer L1=500 / L2=380

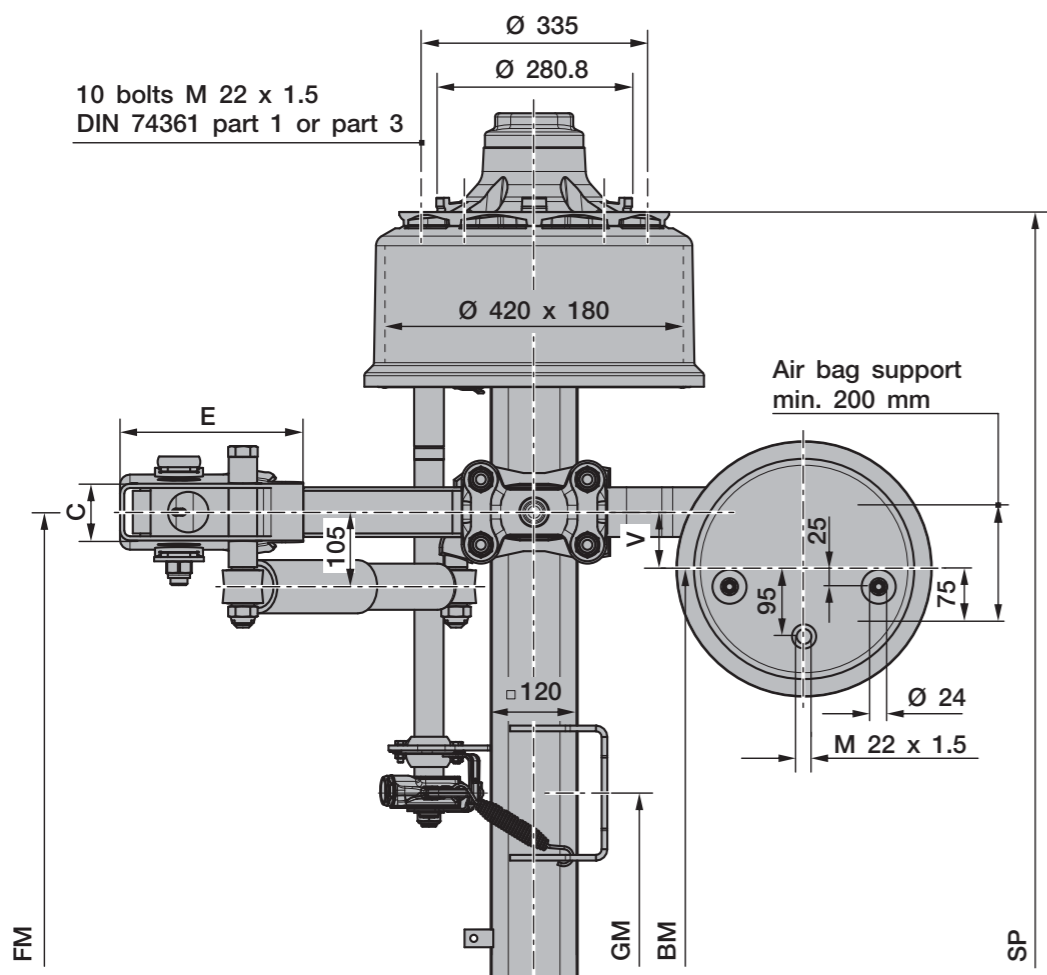
- > Max. inclination angle of the semitrailer under full load and lowest adjustable ride height ±1°
- > With trailing arm L1=500 / L2=310, bag pressures acc. to TE-1188.0 sheet 18  
With trailing arm L1=500 / L2=380, bag pressures acc. to TE-1188.0 sheet 15
- > The hanger brackets, air bag supports and the frame must be reinforced so that the forces applied can be absorbed. See the current BPW installation instructions.

Rev. 3	(10)	11.07.2016
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
		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	---
2	ALO	420 - 470	430 - 470	460	360	345	190	36K	...22.83.02	268	80	258	83	90	35	---
3	ALO	450 - 510	460 - 510	490	390	375	220	36	...22.88.02	268	80	258	83	90	35	---
4	ALO	500 - 565	510 - 565	540	440	425	220	36	...22.88.02	350	100	300	100	105	120	40

<sup>1)</sup> Lifting heights acc. to TD-1242.0  
<sup>2)</sup> The packer is not included in supplied package.  
<sup>3)</sup> Only suitable for semi-trailers / Centre axle drawbar trailer



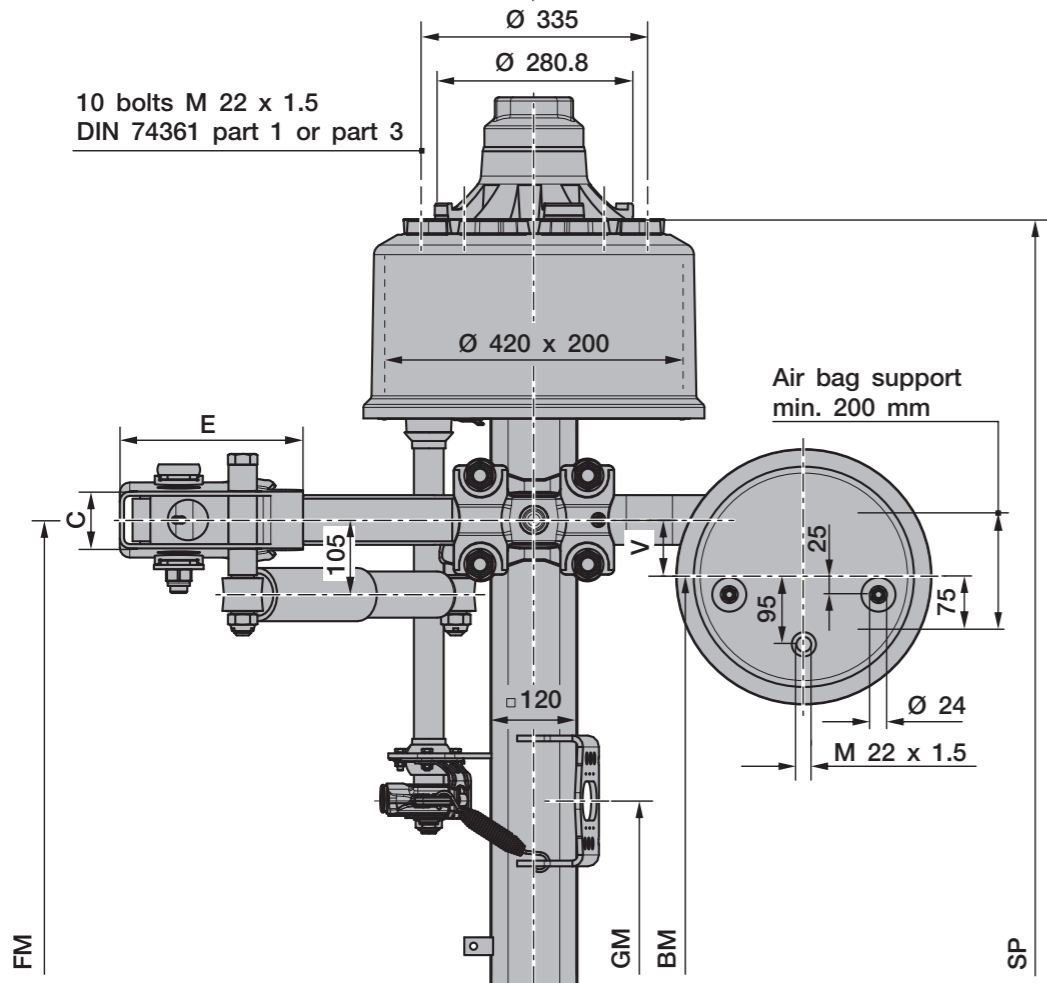
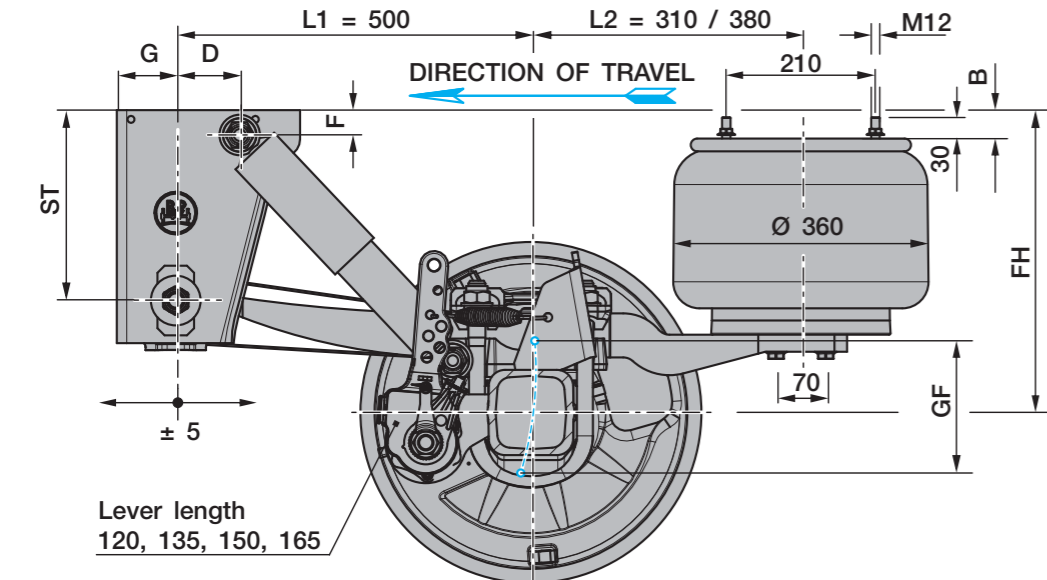
Axle type	Track SP	Spring centre FM	Booster bracket centre GM	Air bag centre BM V=80	Brake cylinder <sup>4)</sup>	Tyres recommended
HSF...9010	2040	1200	409	1040	M / F	385/65 R22.5 385/55 R22.5
		1300		1140		
	2095	1300	464	1140		
HZF...9010	1820	900	239	740	M / (F) <sup>5)</sup>	275/70 R22.5
		980		820		
	1880	980	299	820		

<sup>4)</sup> M = for diaphragm cylinder / F = for spring brake cylinder  
<sup>5)</sup> Use F-booster bracket with spring brake cylinder.

- > 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 TE-1188.0 sheet 5  
With trailing arm L1=500 / L2=380, bag pressures acc. to TE-1188.0 sheet 11
- > The hanger brackets, air bag supports and the frame must be reinforced so that the forces applied can be absorbed. See the current BPW installation instructions.

Rev. 3 (10) 11.07.2016  
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
		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	---
2	ALO	420 - 470	430 - 470	460	360	345	190	36K	...22.83.02	268	80	258	83	90	35	---
3	ALO	450 - 510	460 - 510	490	390	375	220	36	...22.88.02	268	80	258	83	90	35	---
4	ALO	500 - 565	510 - 565	540	440	425	220	36	...22.88.02	350	100	300	100	105	120	40

1) Lifting heights acc. to TD-1242.0  
2) The packer is not included in supplied package.  
3) Only suitable for semi-trailers / Centre axle drawbar trailer

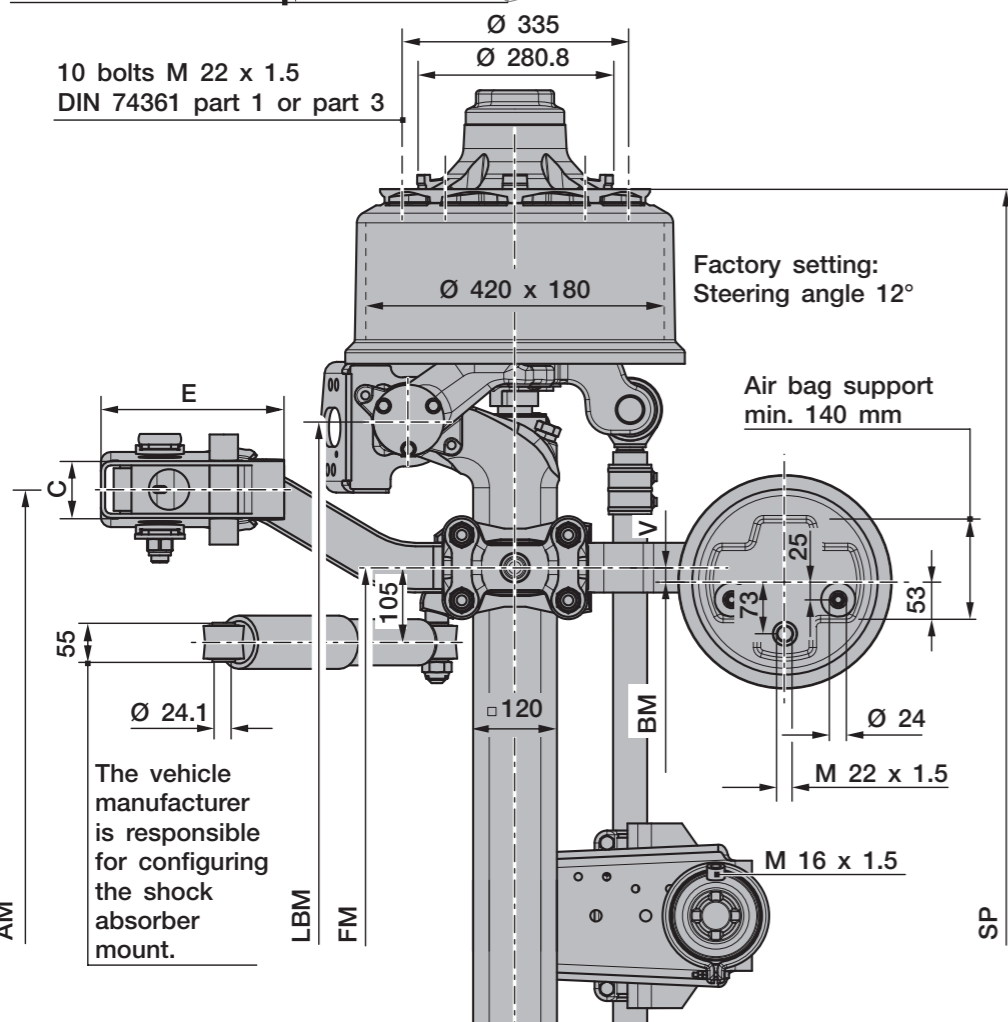
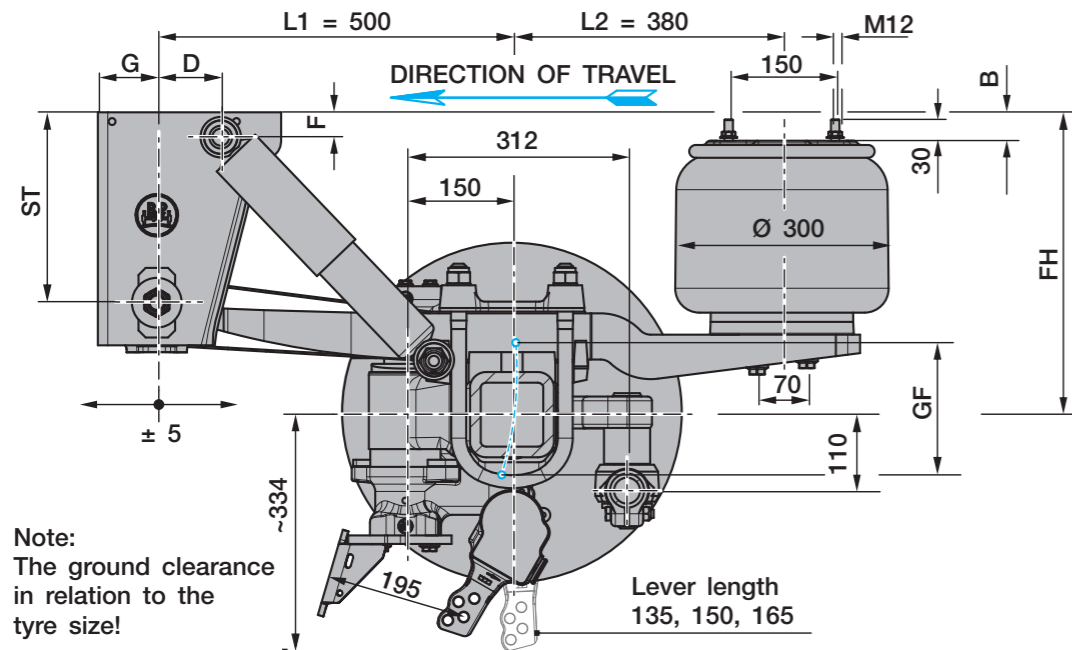
Axle type	Track SP	Spring centre FM	Booster bracket centre GM	Air bag centre BM V=80	Brake cylinder <sup>4)</sup>	Tyres recommended
HSF...10110 HSF...11810	2040	1200 1300	365	1040 1140	M / F	425/65 R22.5 <sup>6)</sup> 445/65 R22.5 <sup>6)</sup>
HZF...10110 HZF...11810	1880	980	251	820	M / (F) <sup>5)</sup>	275/70 R22.5 <sup>6)</sup> 295/80 R22.5

4) M = for diaphragm cylinder / F = for spring brake cylinder  
5) Use F-booster bracket with spring brake cylinder.  
6) The load rating of the tyre entered in the drawing is unrelated to the axle load capacity. It is dependent on the information from the tyre manufacturer.

- > 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 TE-1188.0 sheet 5  
With trailing arm L1=500 / L2=380, bag pressures acc. to TE-1188.0 sheet 11
- > The hanger brackets, air bag supports and the frame must be reinforced so that the forces applied can be absorbed. See the current BPW installation instructions.

Rev. 0	(10)	11.07.2016
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
		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	105	120	40

<sup>1)</sup> Lifting heights acc. to TD-1242.0  
<sup>2)</sup> The packer is not included in supplied package.

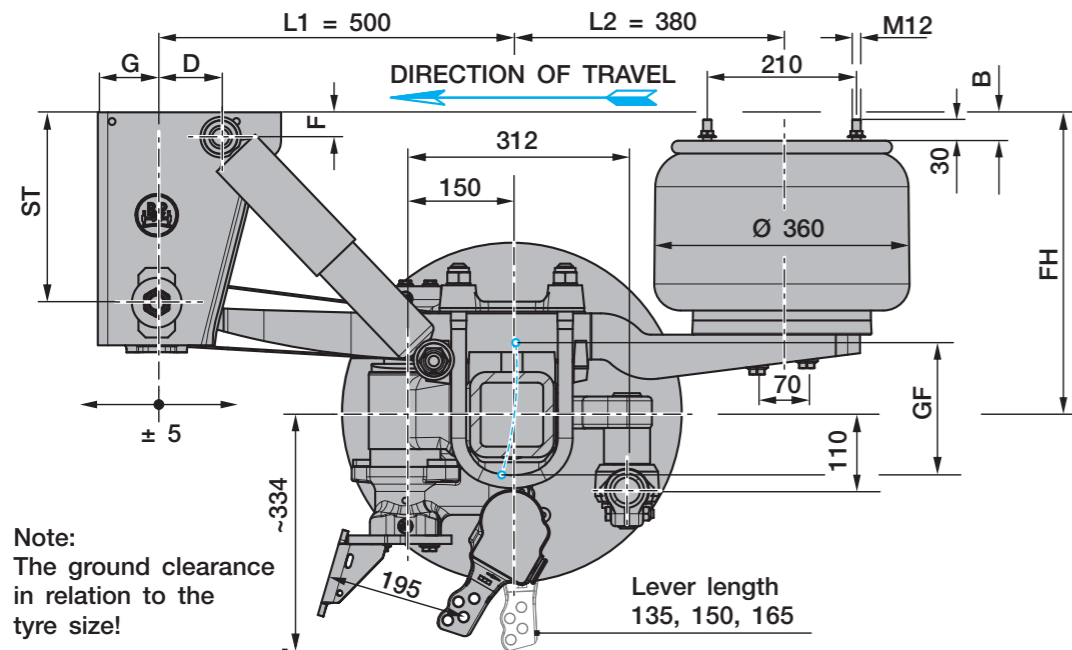
Axle type	Track SP	Spring centre FM	Hanger bracket centre AM	Steering pivot centre LBM	Air bag centre BM		Brake cylinder <sup>3)</sup>	Tyres recommended
					V=20	V=60		
HSFH...LL 9010	2040	980	1200	1395	940	860	M / F	385/65 R22.5 385/55 R22.5
		1080	1300		1040	960		
	2095	1080	1300	1450	1040	960		
	2140	1080	1300	1495	1040	960		

<sup>3)</sup> M = for diaphragm cylinder / F = for spring brake cylinder

- > Max. inclination angle of the semitrailer under full load and lowest adjustable ride height ±1°
- > With trailing arm L1=500 / L2=380, bag pressures acc. to TE-1188.0 sheet 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 / 110	05.872.00.53.0	04.00.074453

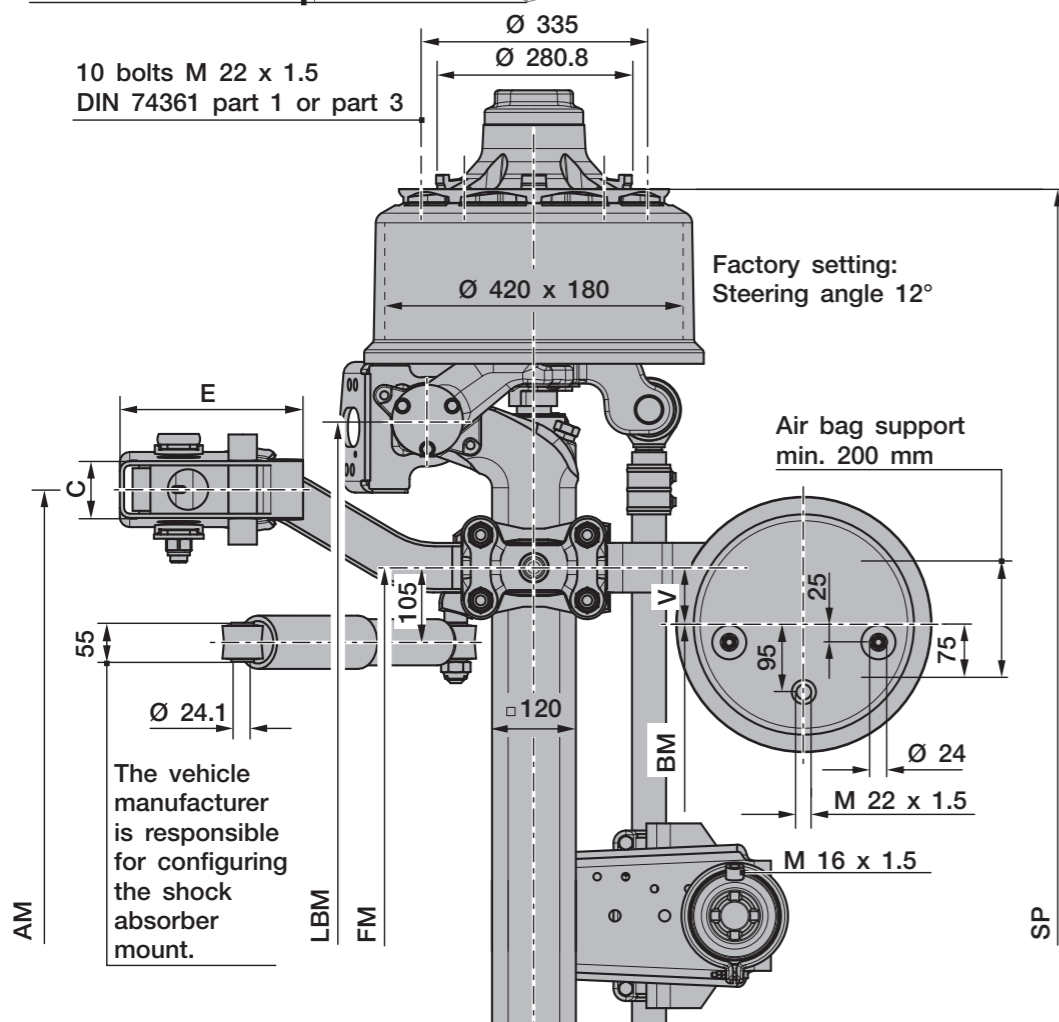


Line	Series	adjustable ride height FH				Total spring travel GF <sup>1)</sup>	Air bag type BPW	Shock absorber 02.37...	Hanger bracket				Shock absorber mounting		Packer <sup>2)</sup> B
		for axle units	min. FH with axle raised	empty without air	loaded without air				ST	C	E	G	D	F	
2	ALOLL	430 - 470	460	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	105	120	40

<sup>1)</sup> Lifting heights acc. to TD-1242.0  
<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	Brake cylinder <sup>3)</sup>	Tyres recommended
HSFH...LL 9010	2040	980	1200	1395	820	M / F	385/65 R22.5 385/55 R22.5
		1080	1300		920		
	2095	1080	1300	920			
	2140	1080	1300	920			

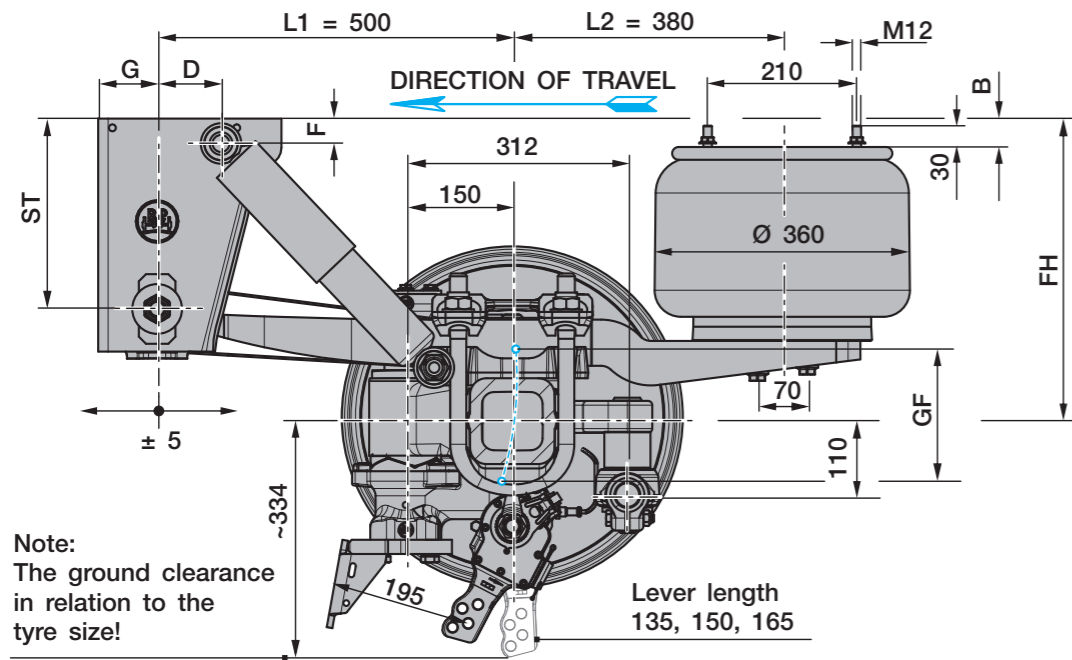
<sup>3)</sup> M = for diaphragm cylinder / F = for spring brake cylinder



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

With 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 / 110	05.872.00.53.0	04.00.074453

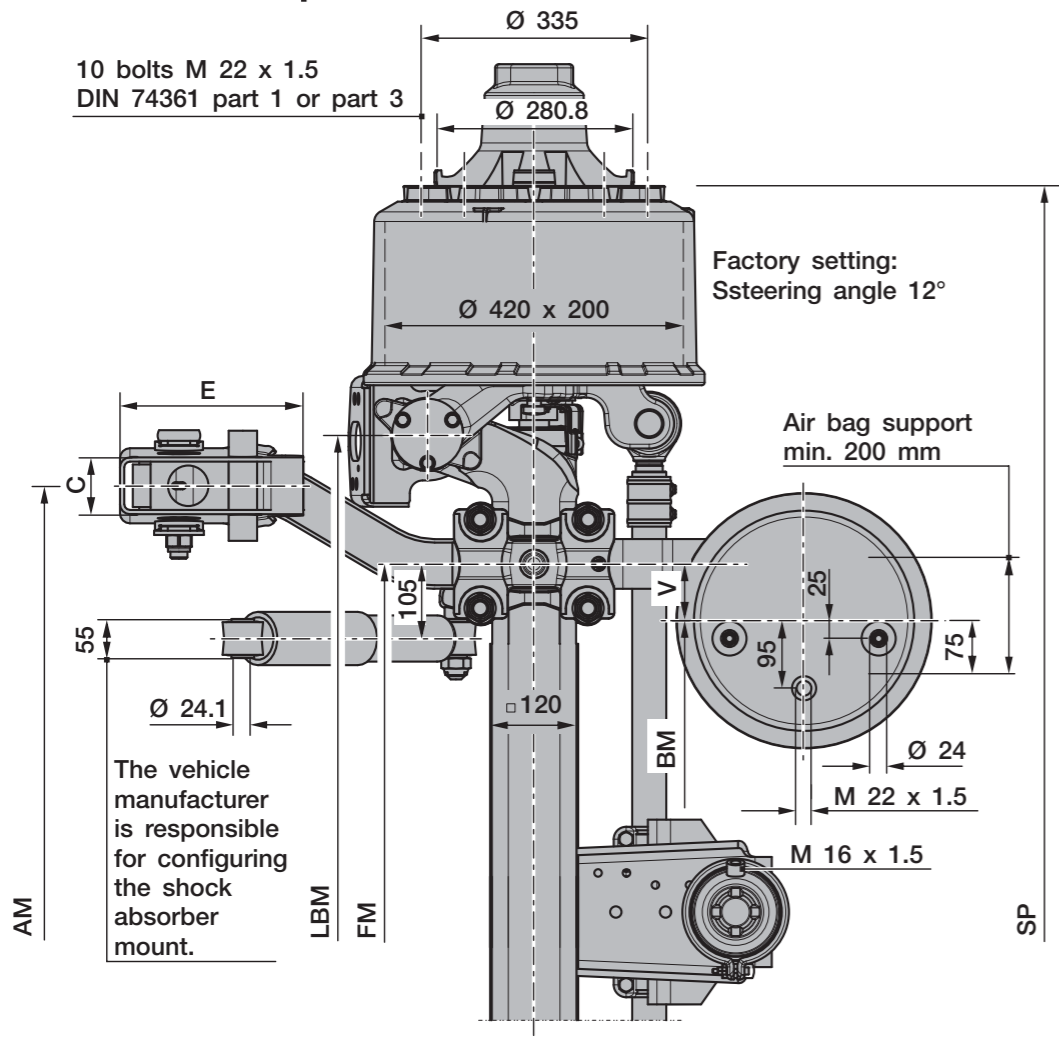


Line	Series	adjustable ride height FH				Total spring travel GF <sup>1)</sup>	Air bag type BPW	Shock absorber 02.37...	Hanger bracket				Shock absorber mounting		Packer <sup>2)</sup> B
		for axle units	min. FH with axle raised	empty without air	loaded without air				ST	C	E	G	D	F	
2	ALOLL	430 - 470	460	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	105	120	40

<sup>1)</sup> Lifting heights acc. to TD-1242.0  
<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	Brake cylinder <sup>3)</sup>	Tyres recommended
HSFH...LL 10110	2040	980	1200	1345	820	M / F	425/65 R22.5
	2090	1080	1300	1395	920		

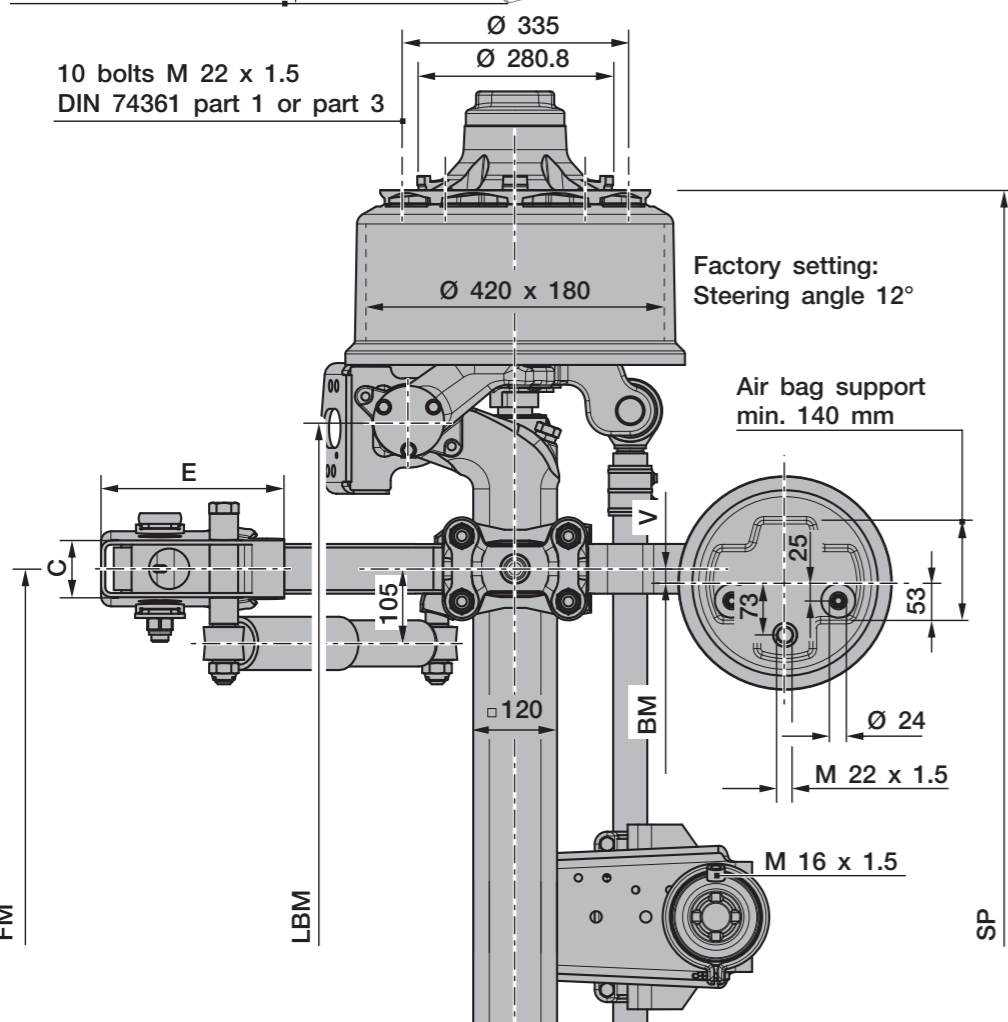
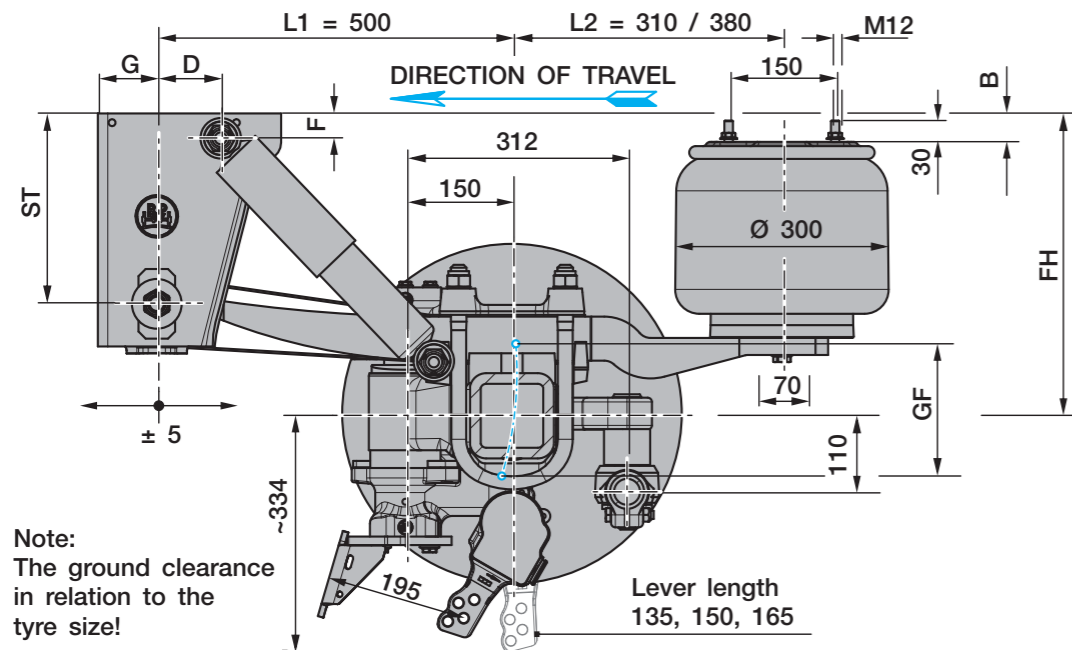
<sup>3)</sup> M = for diaphragm cylinder / F = for spring brake cylinder



- > Max. inclination angle of the semitrailer under full load and lowest adjustable ride height ±1°
- > With trailing arm L1=500 / L2=380, bag pressures acc. to TE-1188.0 sheet 11
- > The hanger brackets, air bag supports and the frame must be reinforced so that the forces applied can be absorbed. See the current BPW installation instructions.

With 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.

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



Line	Series	adjustable ride height FH				total spring travel GF <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	105	120	40

<sup>1)</sup> Lifting heights acc. to TD-1242.0  
<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		Brake cylinder <sup>3)</sup>	Tyres recommended
				V=20	V=60		
HSFH...LL 9010	2040	980	1395	940	860	M / F	385/65 R22.5 385/55 R22.5
		1080		1040	960		
	2095	1080	1450	1040	960		
	2140	1080	1495	1040	960		

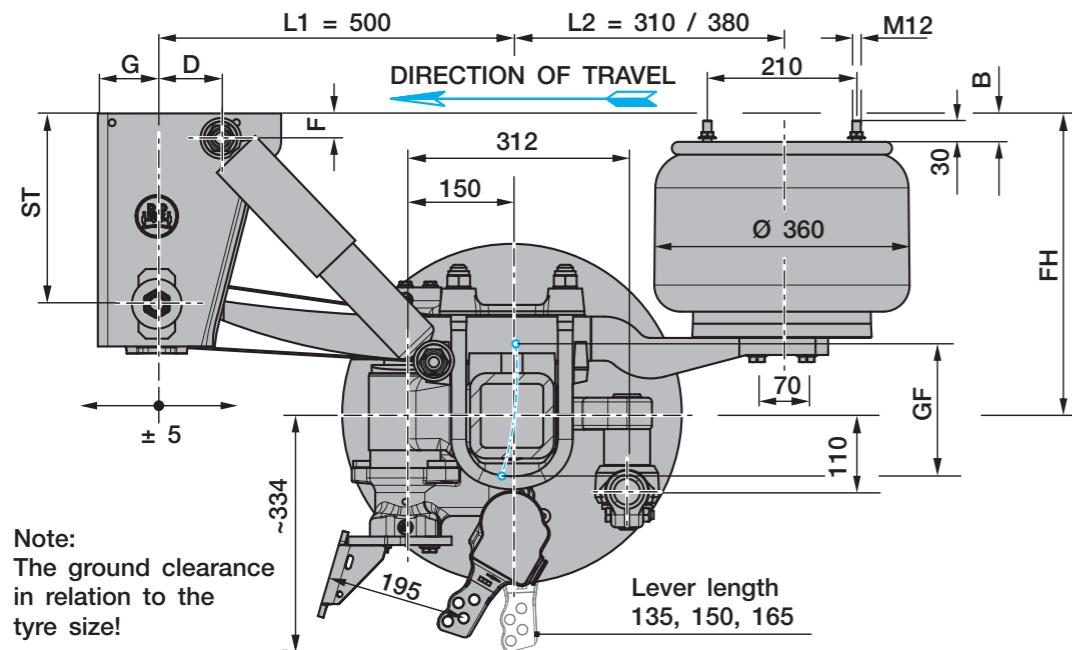
<sup>3)</sup> M = for diaphragm cylinder / F = for spring brake cylinder

- > 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 TE-1188.0 sheet 18  
With trailing arm L1=500 / L2=380, bag pressures acc. to TE-1188.0 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 / 110	05.872.00.53.0	04.00.074453
	310			



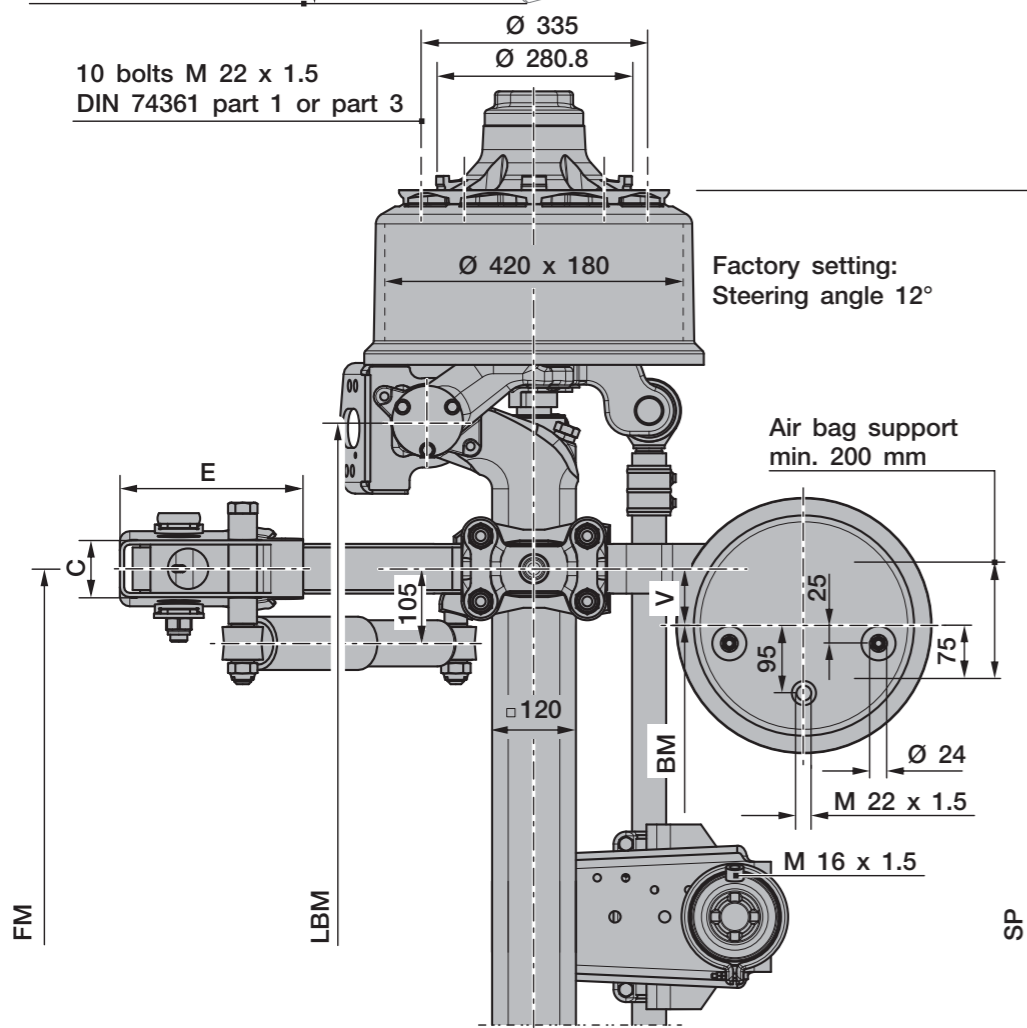


Line	Series	adjustable ride height FH				Total spring travel GF <sup>1)</sup>	Air bag type BPW	Shock absorber 02.37...	Hanger bracket				Shock absorber mounting		Packer <sup>2)</sup> B
		for axle units	min. FH with axle raised	empty without air	loaded without air				ST	C	E	G	D	F	
2	ALOLL	430 - 470	460	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	105	120	40

<sup>1)</sup> Lifting heights acc. to TD-1242.0  
<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	Brake cylinder <sup>3)</sup>	Tyres recommended
HSFH...LL 9010	2040	980	1395	820	M / F	385/65 R22.5 385/55 R22.5
		1080		920		
	2095	1080	920			
	2140	1080	920			

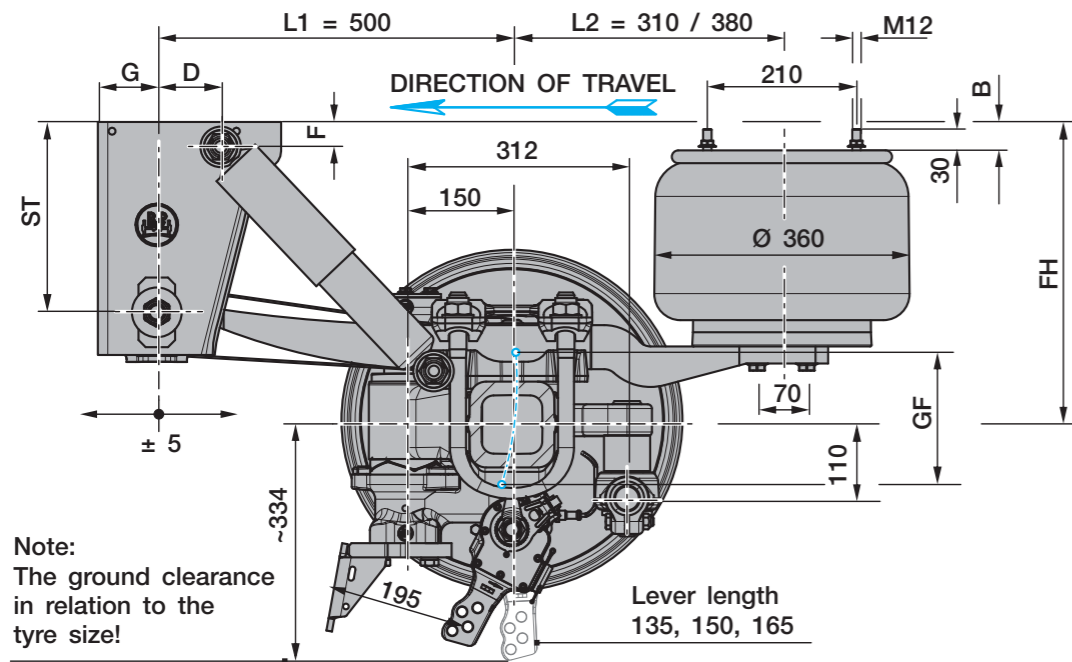
<sup>3)</sup> M = for diaphragm cylinder / F = for spring brake cylinder



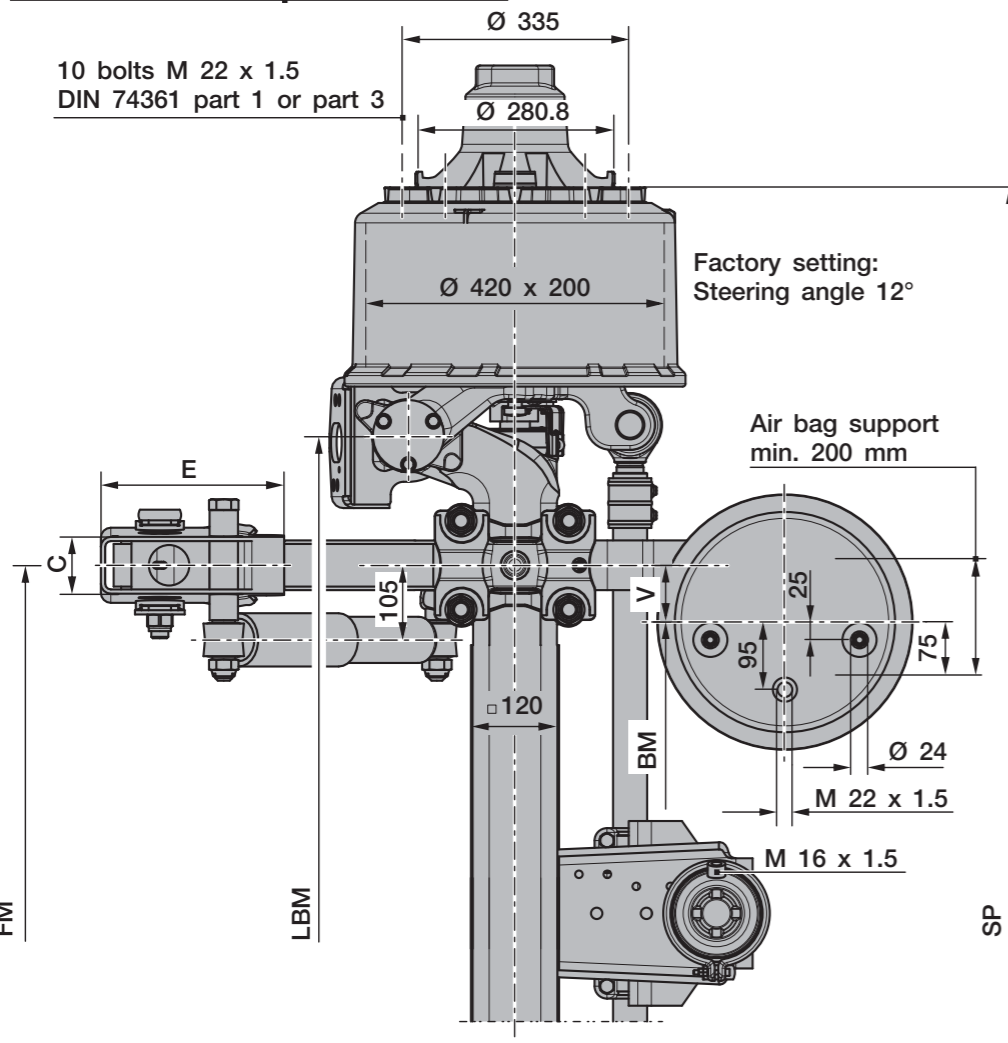
- > Max. inclination angle of the semitrailer under full load and lowest adjustable ride height ±1°
- > With trailing arm L1=500 / L2=310, bag pressures acc. to TE-1188.0 sheet 5  
With trailing arm L1=500 / L2=380, bag pressures acc. to TE-1188.0 sheet 11
- > The hanger brackets, air bag supports and the frame must be reinforced so that the forces applied can be absorbed. See the current BPW installation instructions.

With 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 / 110	05.872.00.53.0	04.00.074453
	310			



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



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	105	120	40

<sup>1)</sup> Lifting heights acc. to TD-1242.0  
<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	Brake cylinder <sup>3)</sup>	Tyres recommended
HSFH...LL 10110	2040	980	1345	820	M / F	425/65 R22.5
	2090	1080	1395	920		445/65 R22.5
MSFH...LL 11810	2045	900	1350	740	M / F	425/65 R22.5 <sup>4)</sup>
	2095	1030	1400	870		445/65 R22.5 <sup>4)</sup>

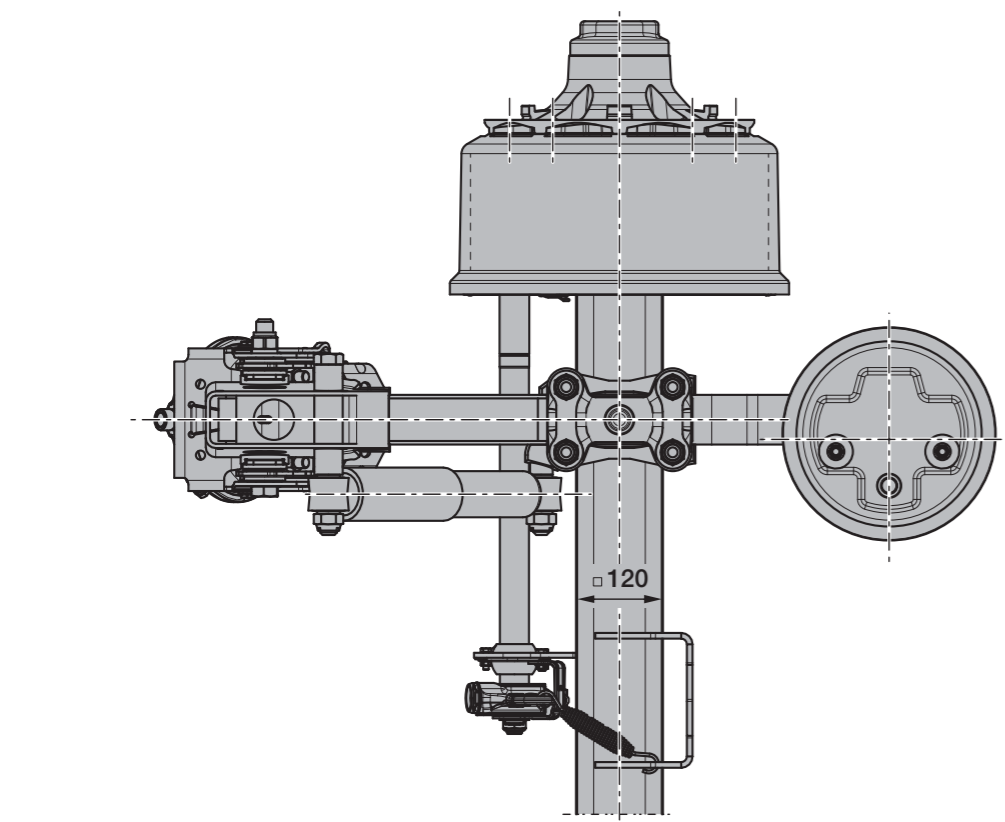
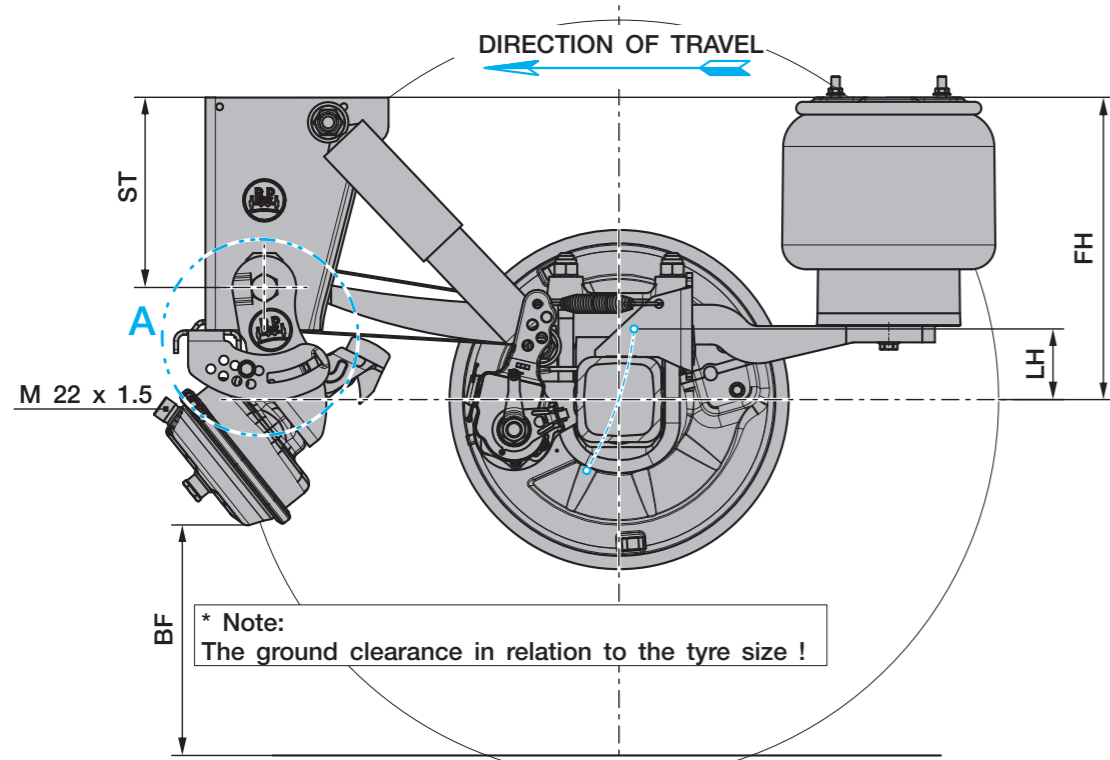
<sup>3)</sup> M = for diaphragm cylinder / F = for spring brake cylinder  
<sup>4)</sup> The load rating of the tyre entered in the drawing is unrelated to the axle load capacity. It is dependent on the information from the tyre manufacturer.

- > Max. inclination angle of the semitrailer under full load and lowest adjustable ride height ±1°
- > With trailing arm L1=500 / L2=380, bag pressures acc. to TE-1188.0 sheet 11
- > The hanger brackets, air bag supports and the frame must be reinforced so that the forces applied can be absorbed. See the current BPW installation instructions.

With 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 / 110	05.872.00.53.0	04.00.074453
	310			

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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>3)</sup>		Channel cross member
								Version A <sup>2)</sup>	Version B <sup>2)</sup>	
Sheet 1 Sheet 2, 2a	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.

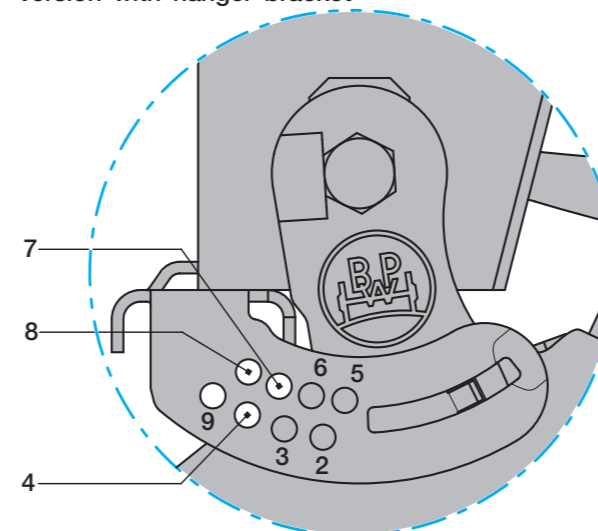
\* Tyre: 385/65 R 22.5 (r<sub>stat</sub> = 496)

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

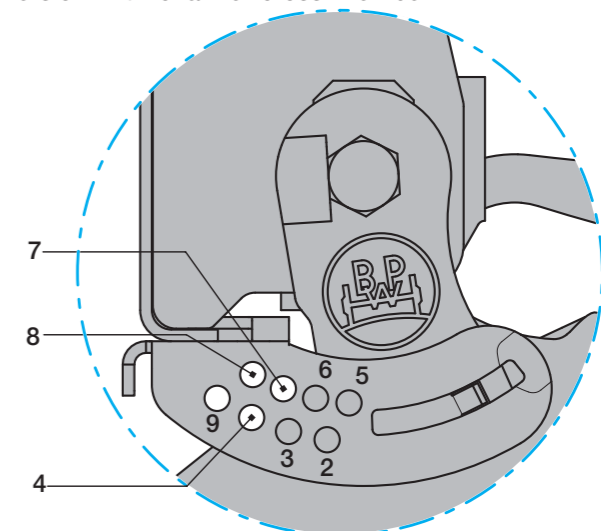
<sup>2)</sup> Version A for 9t and 10t single tyre fitment, version B for 10t twin tyre fitment and 11,8t

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

Detail A  
Version with hanger bracket



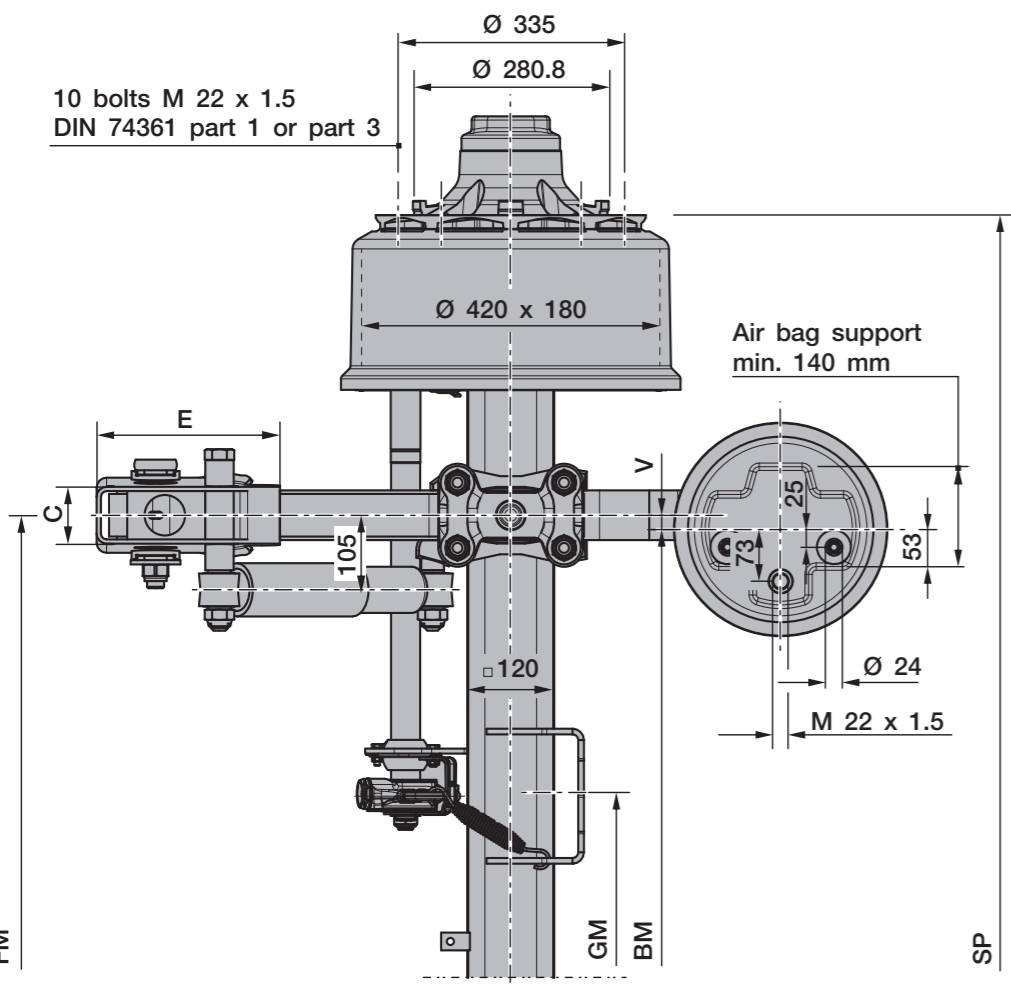
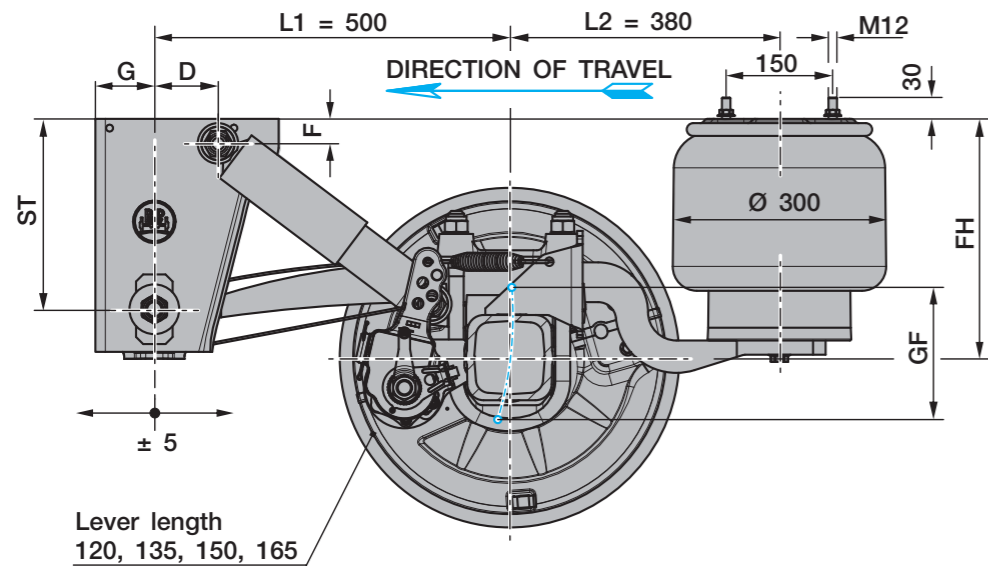
Detail A  
Version with channel cross member



- > 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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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 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
2 <sup>2)</sup>	ALMT	270 - 310	280 - 310	310	210	195	220	30	...22.89.02	184	86	240	83	70	35
3	ALMT	280 - 325	290 - 325	320	220	205	190	30K	...22.83.02	268	80	258	83	55	35
4 <sup>2)</sup>	ALM	300 - 340	310 - 340	340	240	225	190	30K	...22.83.02	184	86	240	83	70	35
5	ALMT	305 - 360	315 - 360	345	245	230	220	30	...22.83.02	268	80	258	83	55	35
6	ALM	340 - 390	350 - 390	380	280	265	190	30K	...22.83.02	268	80	258	83	90	35
7	ALM	365 - 420	375 - 420	405	305	290	220	30	...22.83.02	268	80	258	83	90	35

<sup>1)</sup> Lifting heights acc. to TD-1242.0

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

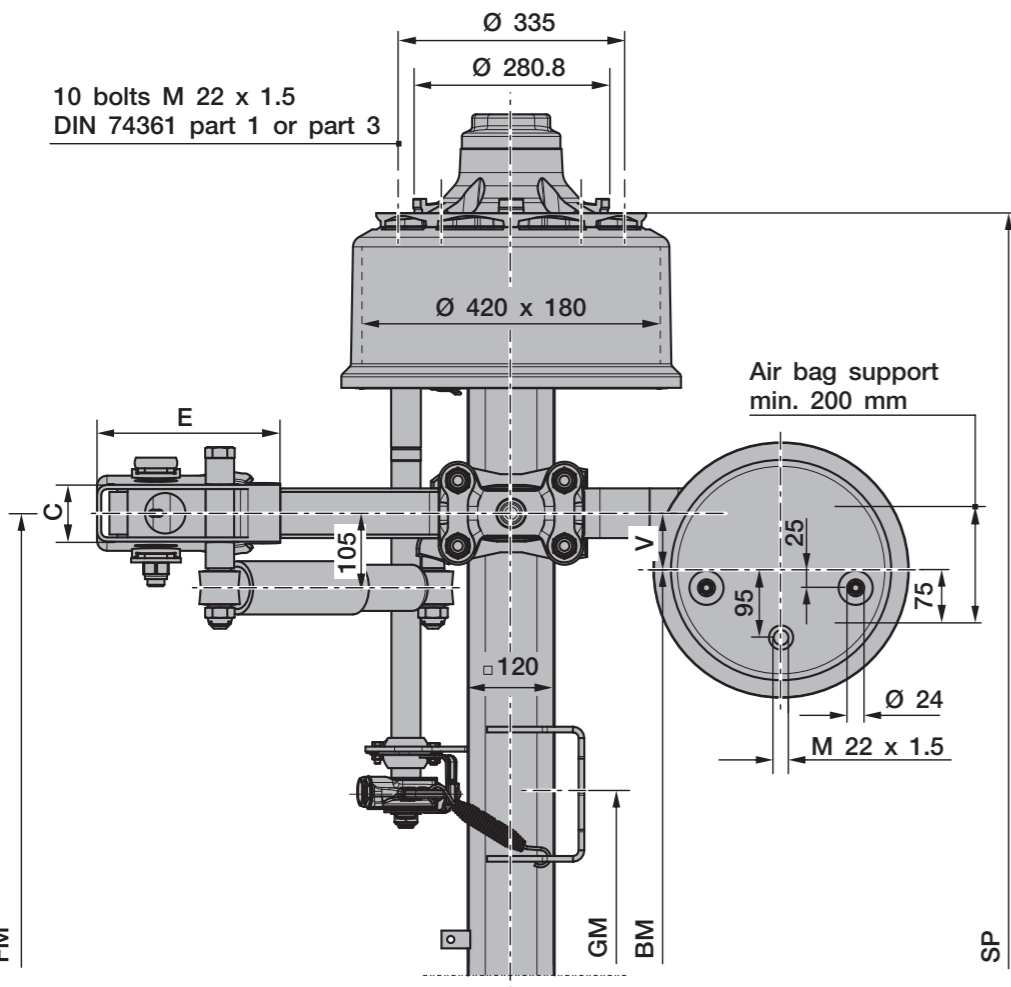
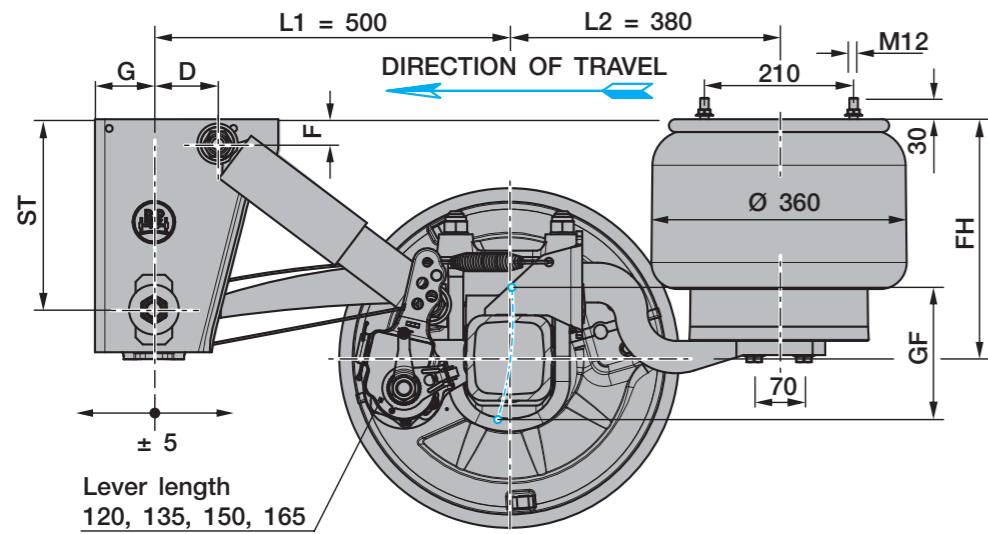
Axle type	Track SP	Spring centre FM	Booster bracket centre GM	Air bag centre BM		Brake cylinder <sup>3)</sup>	Tyres recommended
				V=20	V=60		
HSF...9010	2040	1200	409	1160	1080	M / F	385/65 R22.5 385/55 R22.5
		1300		1260	1180		
	2095	1300	464	1260	1180		
HZF...9010	1820	900	239	860	780	M / (F) <sup>4)</sup>	275/70 R22.5
		980		940	860		
	1880	980	299	940	860	M / F	

<sup>3)</sup> M = for diaphragm cylinder / F = for spring brake cylinder

<sup>4)</sup> at V=60 only diaphragm cylinder

- > Max. inclination angle of the semitrailer under full load and lowest adjustable ride height ±1°
- > With trailing arm L1=500 / L2=380, bag pressures acc. to TE-1188.0 sheet 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	
		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
2 <sup>2)</sup>	ALMT	270 - 310	280 - 310	310	210	195	220	36	...22.89.02	184	86	240	83	70	35
3	ALMT	280 - 325	290 - 325	320	220	205	190	36K	...22.83.02	268	80	258	83	55	35
4 <sup>2)</sup>	ALM	300 - 340	310 - 340	340	240	225	190	36K	...22.83.02	184	86	240	83	70	35
5	ALMT	305 - 360	315 - 360	345	245	230	220	36	...22.83.02	268	80	258	83	55	35
6	ALM	340 - 390	350 - 390	380	280	265	190	36K	...22.83.02	268	80	258	83	90	35
7	ALM	365 - 420	375 - 420	405	305	290	220	36	...22.83.02	268	80	258	83	90	35

<sup>1)</sup> Lifting heights acc. to TD-1242.0

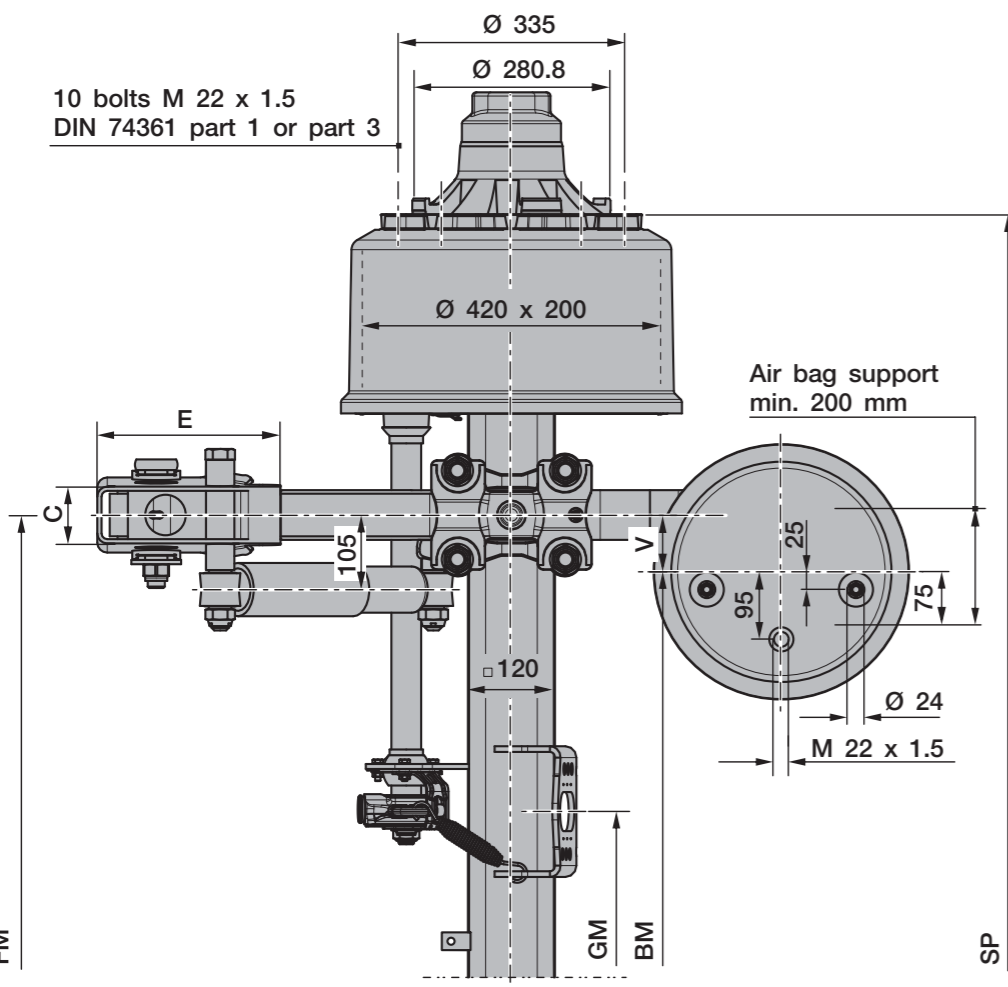
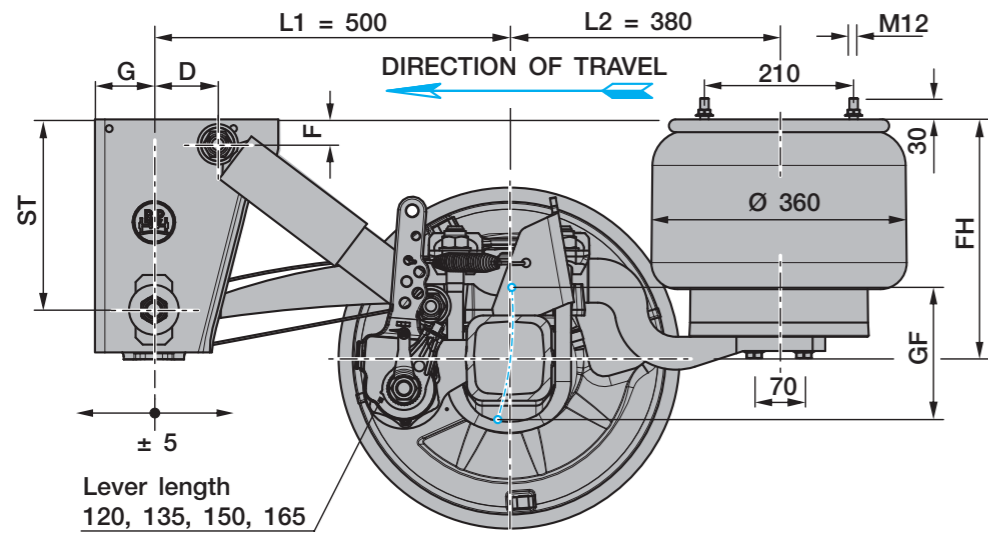
<sup>2)</sup> Only suitable for semi-trailers / Centre axle drawbar trailer

Axle type	Track SP	Spring centre FM	Booster bracket centre GM	Air bag centre BM V=80	Brake cylinder <sup>3)</sup>	Tyres recommended
HSF...9010	2040	1200	409	1040	M / F	385/65 R22.5 385/55 R22.5
		1300		1140		
	2095	1300	464	1140		
	2140	1400	509	1240		
HZF...9010	1820	900	239	740	M	275/70 R22.5
		980		820		
	1880	980	299	820		

<sup>3)</sup> M = for diaphragm cylinder / F = for spring brake cylinder

- > Max. inclination angle of the semitrailer under full load and lowest adjustable ride height ±1°
- > With trailing arm L1=500 / L2=380, bag pressures acc. to TE-1188.0 sheet 11
- > The hanger brackets, air bag supports and the frame must be reinforced so that the forces applied can be absorbed. See the current BPW installation instructions.

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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 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
2 <sup>2)</sup>	ALMT	270 - 310	280 - 310	310	210	195	220	36	...22.89.02	184	86	240	83	70	35
3	ALMT	280 - 325	290 - 325	320	220	205	190	36K	...22.83.02	268	80	258	83	55	35
4 <sup>2)</sup>	ALM	300 - 340	310 - 340	340	240	225	190	36K	...22.83.02	184	86	240	83	70	35
5	ALMT	305 - 360	315 - 360	345	245	230	220	36	...22.83.02	268	80	258	83	55	35
6	ALM	340 - 390	350 - 390	380	280	265	190	36K	...22.83.02	268	80	258	83	90	35
7	ALM	365 - 420	375 - 420	405	305	290	220	36	...22.83.02	268	80	258	83	90	35

<sup>1)</sup> Lifting heights acc. to TD-1242.0

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

Axle type	Track SP	Spring centre FM	Booster bracket centre GM	Air bag centre BM V=80	Brake cylinder <sup>3)</sup>	Tyres recommended
HSF...10110 HSF...11810 <sup>4)</sup>	2040	1200 1300	365	1040 1140	M / F	425/65 R22.5 <sup>5)</sup> 445/65 R22.5 <sup>5)</sup>
HZF...10110 HZF...11810 <sup>4)</sup>	1880	980	251	820	M	275/70 R22.5 <sup>5)</sup> 295/80 R22.5

<sup>3)</sup> M = for diaphragm cylinder / F = for spring brake cylinder

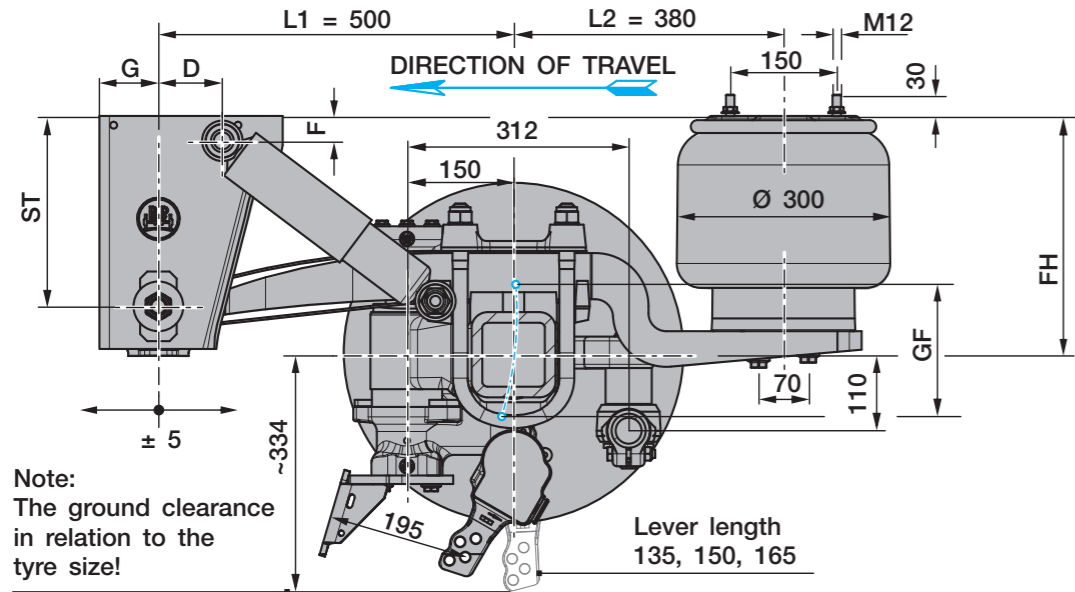
<sup>4)</sup> 11,8 t nur mit ALM möglich

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

- > Max. inclination angle of the semitrailer under full load and lowest adjustable ride height ±1°
- > With trailing arm L1=500 / L2=380, bag pressures acc. to TE-1188.0 sheet 11
- > The hanger brackets, air bag supports and the frame must be reinforced so that the forces applied can be absorbed. See the current BPW installation instructions.

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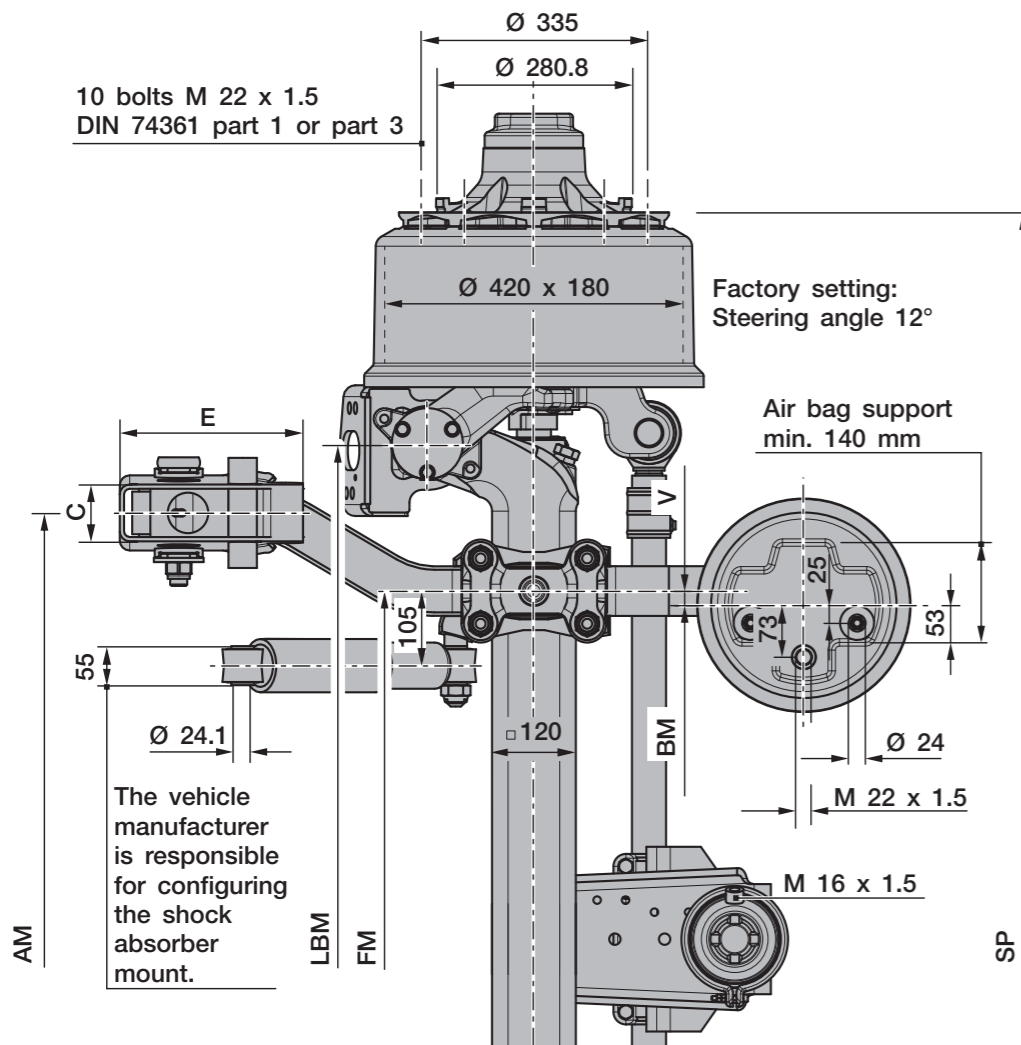


Line	Series	adjustable ride height FH				Total spring travel GF <sup>1)</sup>	Air bag type BPW	Shock absorber 02.37...	Hanger bracket				Shock absorber mounting	
		for axle units	min. FH with axle raised	empty without air	loaded without air				ST	C	E	G	D	F
1 <sup>2)</sup>	ALMTLL	255 - 290	285	185	170	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	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 TD-1242.0  
<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		Brake cylinder <sup>3)</sup>	Tyres recommended
					V=20	V=60		
HSFH...LL 9010	2040	980	1200	1395	940	860	M / F	385/65 R22.5 385/55 R22.5
		1080	1300		1040	960		
	2095	1080	1300	1450	1040	960		
	2140	1080	1300	1495	1040	960		

<sup>3)</sup> M = for diaphragm cylinder / F = for spring brake cylinder

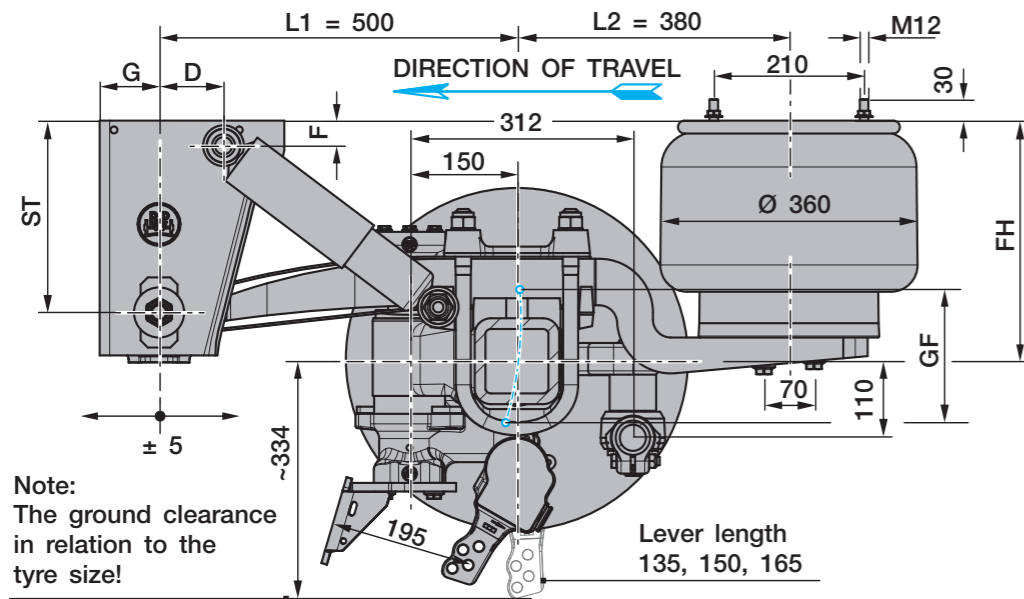


- > Max. inclination angle of the semitrailer under full load and lowest adjustable ride height  $\pm 1^\circ$
- > With trailing arm L1=500 / L2=380, bag pressures acc. to TE-1188.0 sheet 15
- > The hanger brackets, air bag supports and the frame must be reinforced so that the forces applied can be absorbed. 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 / 110	05.872.00.53.0	04.00.074453



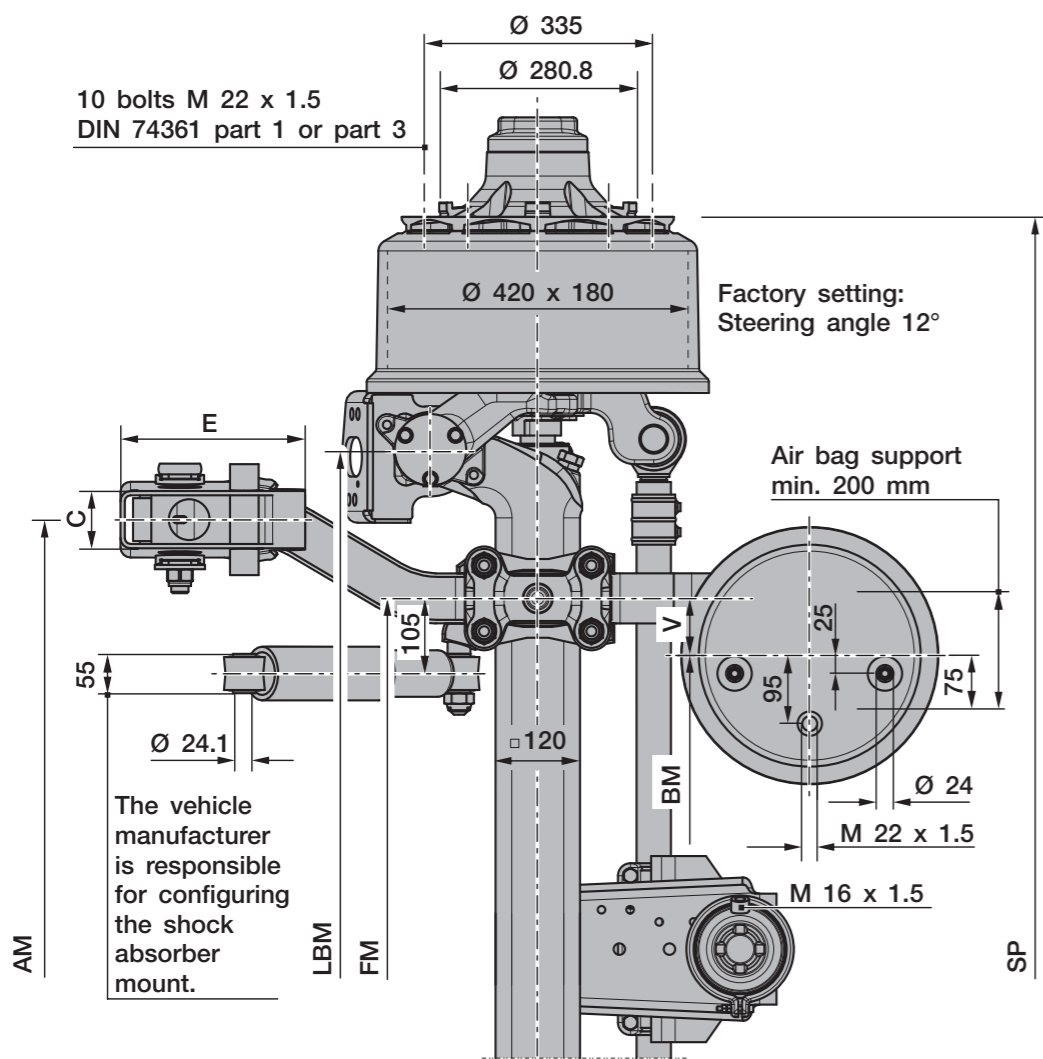


Line	Series	adjustable ride height FH				Total spring travel GF <sup>1)</sup>	Air bag type BPW	Shock absorber 02.37...	Hanger bracket				Shock absorber mounting	
		for axle units	min. FH with axle raised	empty without air	loaded without air				ST	C	E	G	D	F
6	ALMLL	350 - 390	380	280	265	190	36K	...22.83.02	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 TD-1242.0

Axle type	Track SP	Spring centre FM	Hanger bracket centre AM	Steering pivot centre LBM	Air bag centre BM V=80	Brake cylinder <sup>2)</sup>	Tyres recommended
HSFH...LL 9010	2040	980	1200	1395	820	M / F	385/65 R22.5 385/55 R22.5
		1080	1300		920		
	2095	1080	1300	1450	920		
	2140	1080	1300	1495	920		

<sup>2)</sup> M = for diaphragm cylinder / F = for spring brake cylinder

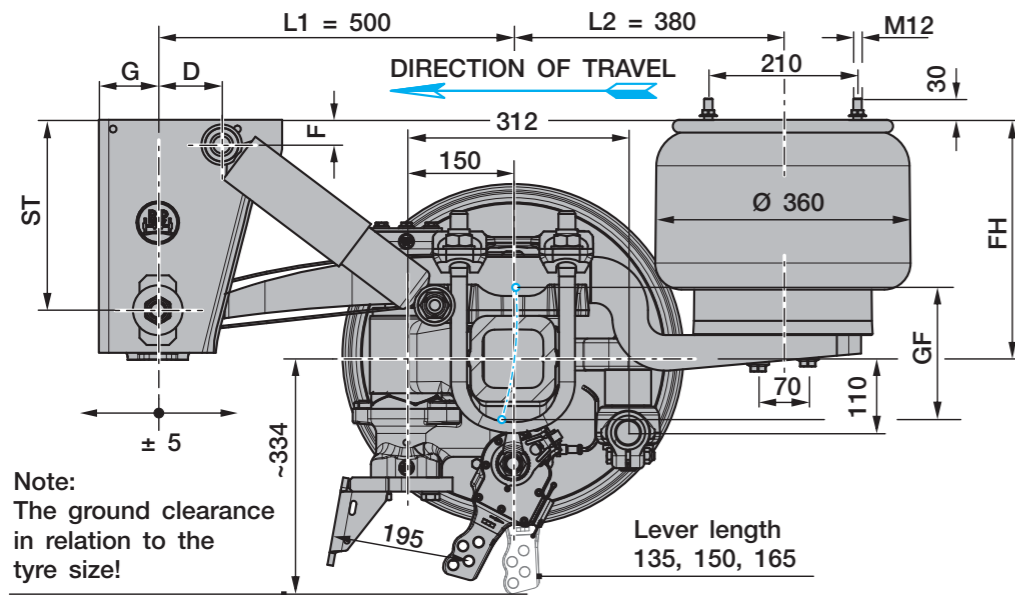


- > Max. inclination angle of the semitrailer under full load and lowest adjustable ride height ±1°
- > With trailing arm L1=500 / L2=380, bag pressures acc. to TE-1188.0 sheet 11
- > The hanger brackets, air bag supports and the frame must be reinforced so that the forces applied can be absorbed. See the current BPW installation instructions.

With 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 / 110	05.872.00.53.0	04.00.074453

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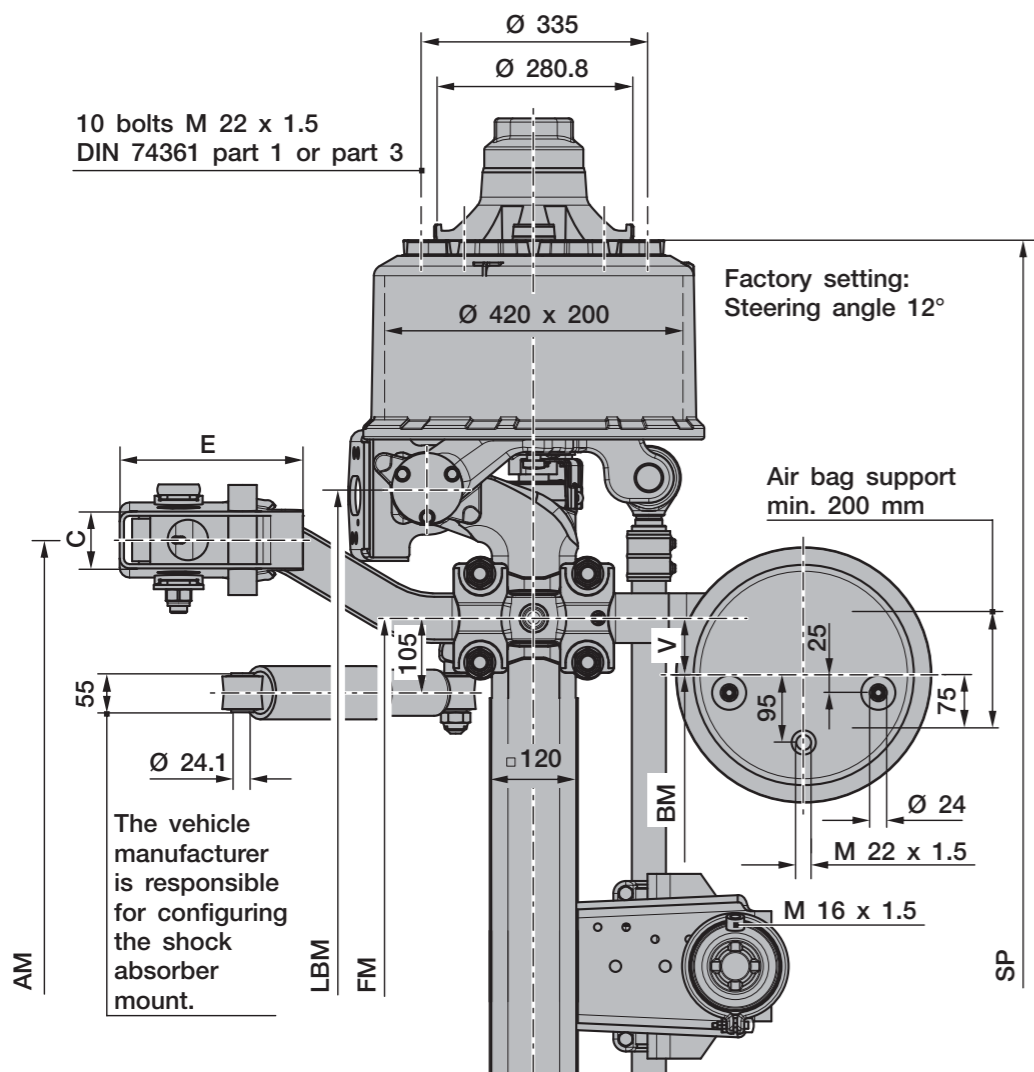


Line	Series	adjustable ride height FH				Total spring travel GF <sup>1)</sup>	Air bag type BPW	Shock absorber 02.37...	Hanger bracket				Shock absorber mounting	
		for axle units	min. FH with axle raised	empty without air	loaded without air				ST	C	E	G	D	F
6	ALMLL	350 - 390	380	280	265	190	36K	...22.83.02	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 TD-1242.0

Axle type	Track SP	Spring centre FM	Hanger bracket centre AM	Steering pivot centre LBM	Air bag centre BM V=80	Brake cylinder <sup>2)</sup>	Tyres recommended
HSFH...LL 10110	2040	980	1200	1345	820	M / F	425/65 R22.5
	2090	1080	1300	1395	920		

<sup>2)</sup> M = for diaphragm cylinder / F = for spring brake cylinder



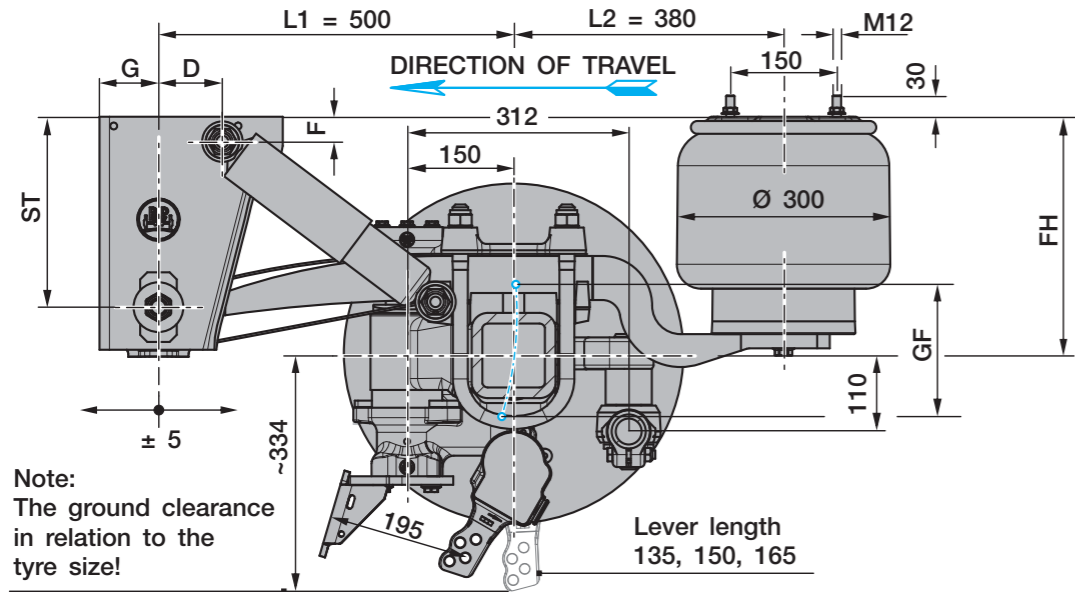
- > Max. inclination angle of the semitrailer under full load and lowest adjustable ride height  $\pm 1^\circ$
- > With trailing arm L1=500 / L2=380, bag pressures acc. to TE-1188.0 sheet 11
- > The hanger brackets, air bag supports and the frame must be reinforced so that the forces applied can be absorbed.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

With 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 / 110	05.872.00.53.0	04.00.074453

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Subject to change without notice.

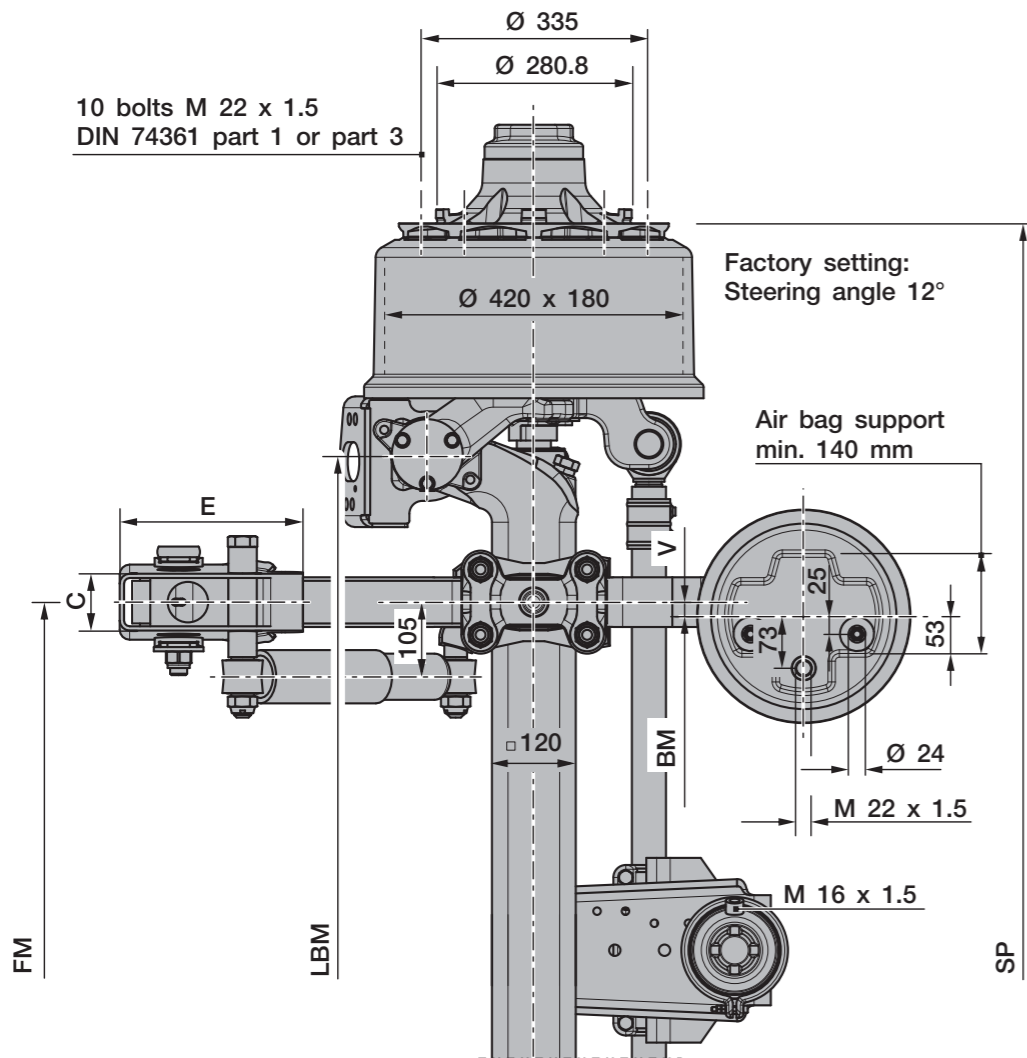


Line	Series	adjustable ride height FH				Total spring travel GF <sup>1)</sup>	Air bag type BPW	Shock absorber 02.37...	Hanger bracket				Shock absorber mounting	
		for axle units	min. FH with axle raised	empty without air	loaded without air				ST	C	E	G	D	F
6	ALMLL	350 - 390	380	280	265	190	30K	...22.83.02	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 TD-1242.0

Axle type	Track SP	Spring centre FM	Steering pivot centre LBM	Air bag centre BM		Brake cylinder <sup>2)</sup>	Tyres recommended
				V=20	V=60		
HSFH...LL 9010	2040	980	1395	940	860	M / F	385/65 R22.5 385/55 R22.5
		1080		1040	960		
	2095	1080	1450	1040	960		
	2140	1080	1495	1040	960		

<sup>2)</sup> M = for diaphragm cylinder / F = for spring brake cylinder



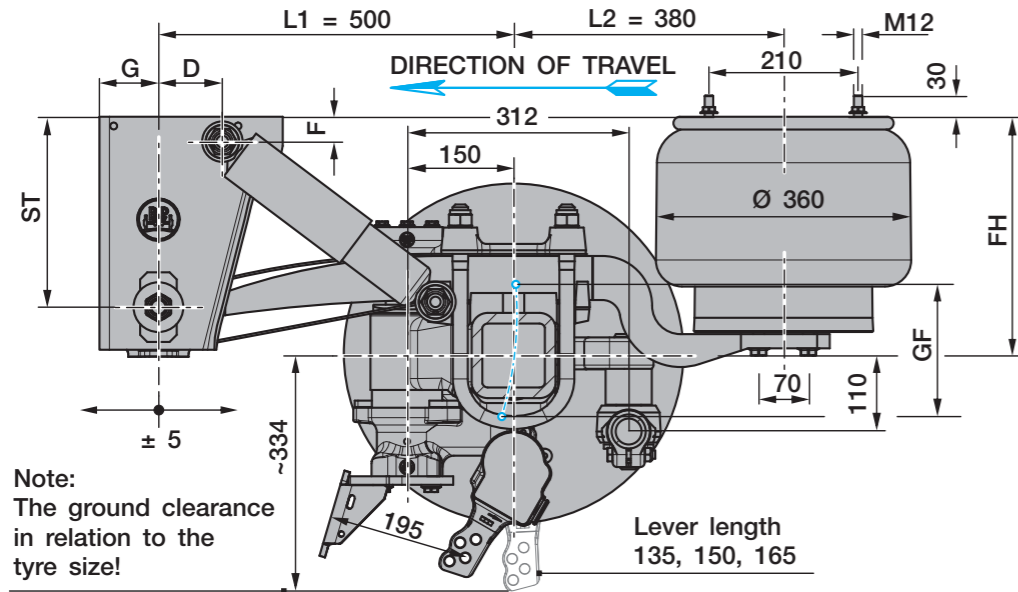
- > Max. inclination angle of the semitrailer under full load and lowest adjustable ride height ±1°
- > With trailing arm L1=500 / L2=380, bag pressures acc. to TE-1188.0 sheet 15
- > The hanger brackets, air bag supports and the frame must be reinforced so that the forces applied can be absorbed. See 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 / 110	05.872.00.53.0	04.00.074453

Rev. 2 (10) 11.07.2016  
Subject to change without notice.



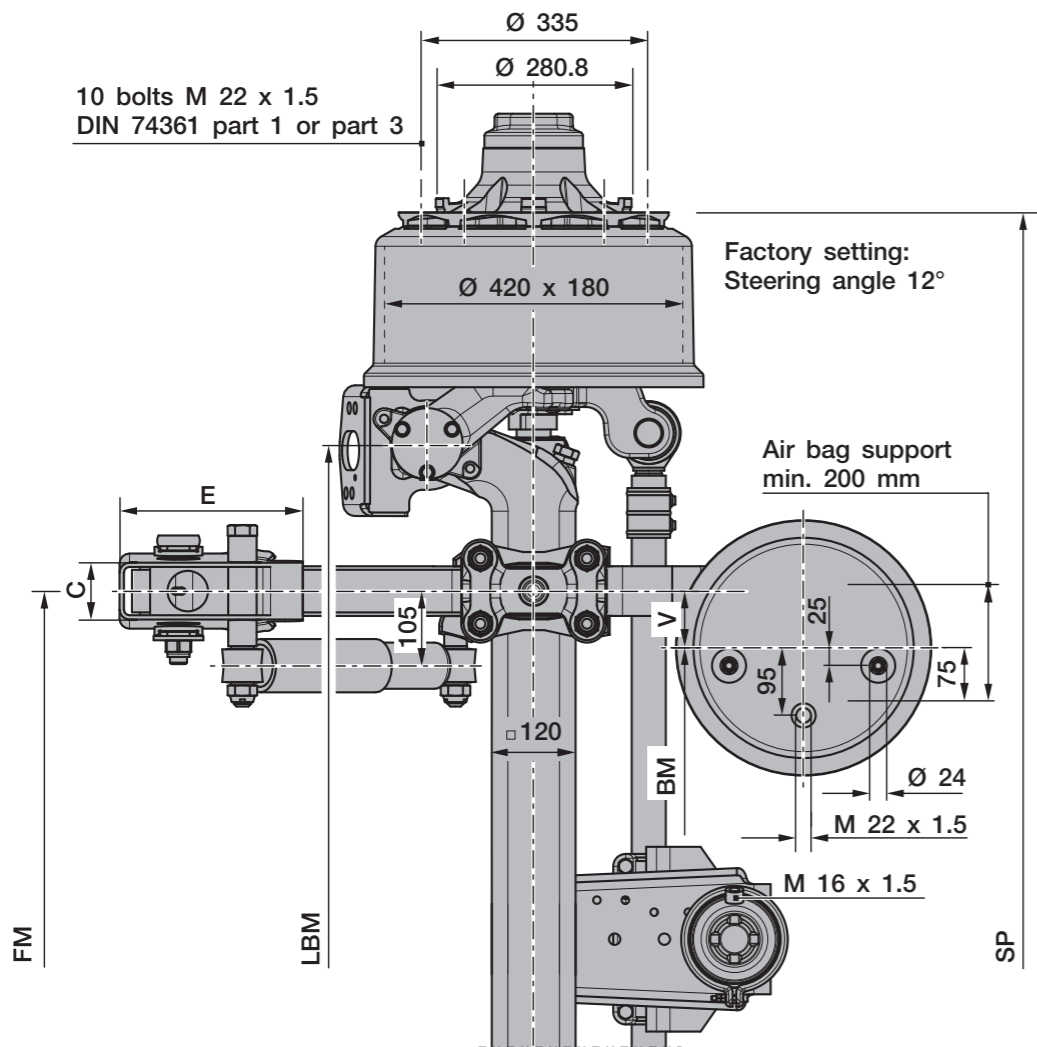


Line	Series	adjustable ride height FH				Total spring travel GF <sup>1)</sup>	Air bag type BPW	Shock absorber 02.37...	Hanger bracket				Shock absorber mounting	
		for axle units	min. FH with axle raised	empty without air	loaded without air				ST	C	E	G	D	F
6	ALMLL	350 - 390	380	280	265	190	36K	...22.83.02	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 TD-1242.0

Axle type	Track SP	Spring centre FM	Steering pivot centre LBM	Air bag centre BM V=80	Brake cylinder <sup>2)</sup>	Tyres recommended
HSFH...LL 9010	2040	980	1395	820	M / F	385/65 R22.5 385/55 R22.5
		1080		920		
	2095	1080	1450	920		
	2140	1080	1495	920		

<sup>2)</sup> M = for diaphragm cylinder / F = for spring brake cylinder

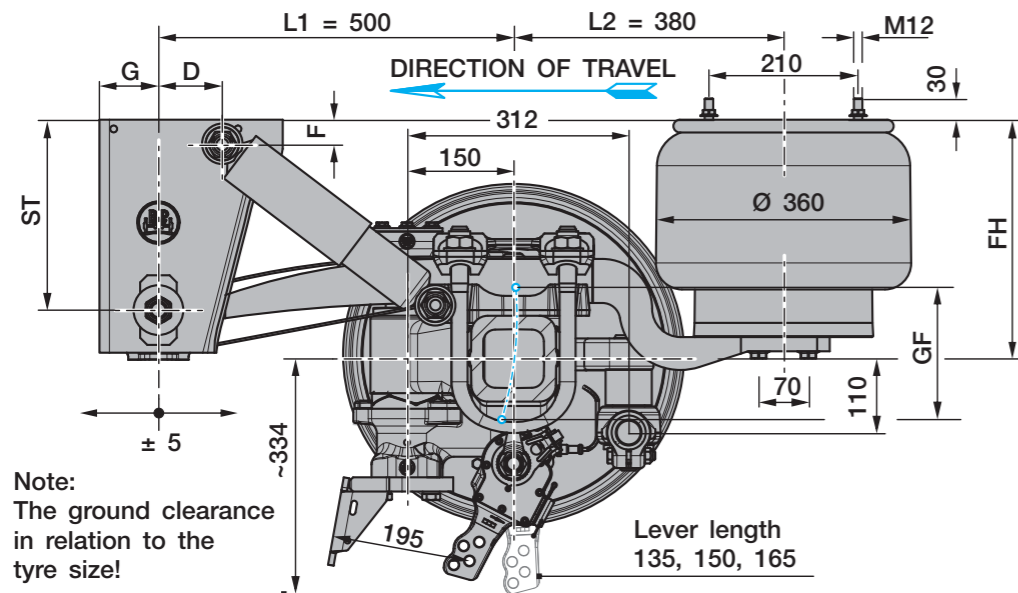


- > Max. inclination angle of the semitrailer under full load and lowest adjustable ride height ±1°
- > With trailing arm L1=500 / L2=380, bag pressures acc. to TE-1188.0 sheet 11
- > The hanger brackets, air bag supports and the frame must be reinforced so that the forces applied can be absorbed. See the current BPW installation instructions.

With 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.

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

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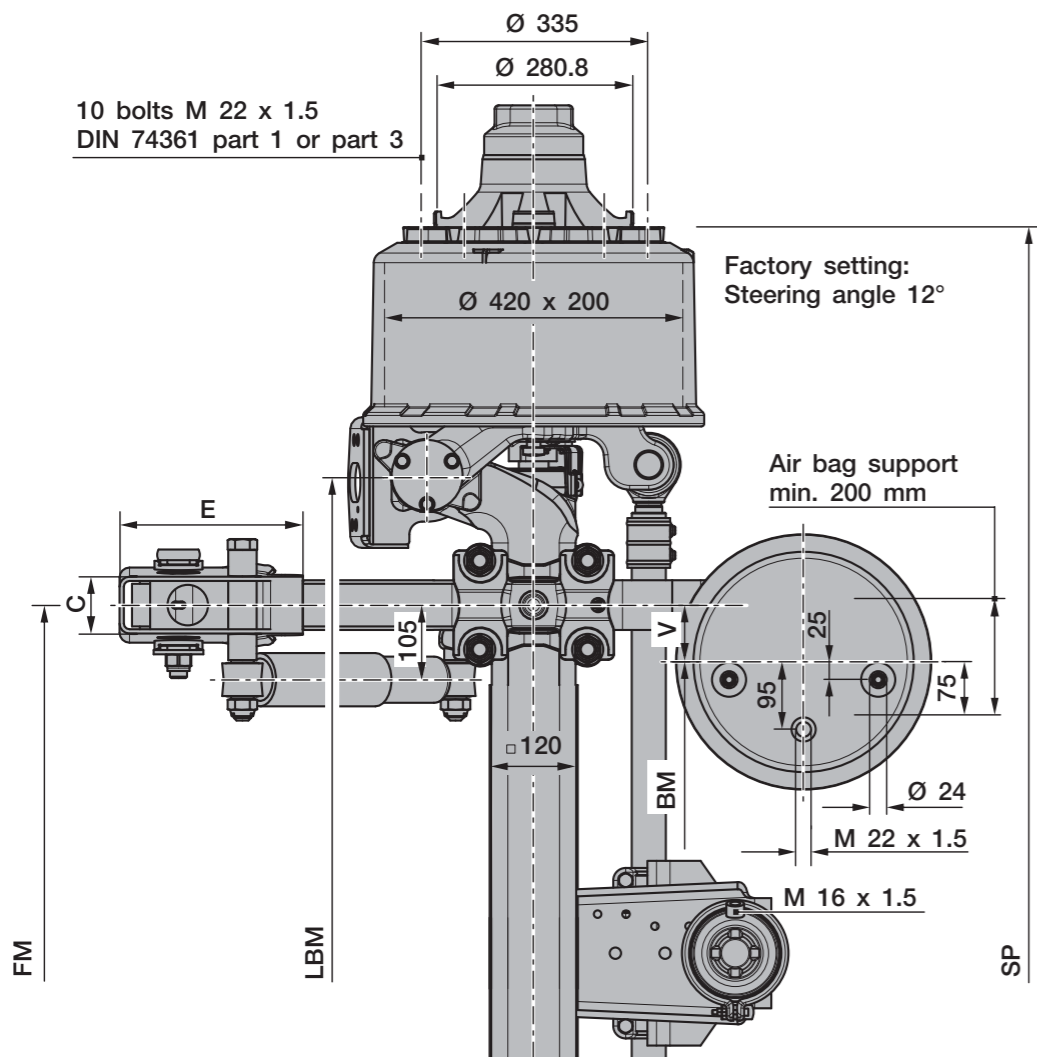


Line	Series	adjustable ride height FH				Total spring travel GF <sup>1)</sup>	Air bag type BPW	Shock absorber 02.37...	Hanger bracket				Shock absorber mounting	
		for axle units	min. FH with axle raised	empty without air	loaded without air				ST	C	E	G	D	F
6	ALMLL	350 - 390	380	280	265	190	36K	...22.83.02	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 TD-1242.0

Axle type	Track SP	Spring centre FM	Steering pivot centre LBM	Air bag centre BM V=80	Brake cylinder <sup>2)</sup>	Tyres recommended
<b>HSFH...LL 10110</b>	2040	980	1345	820	M / F	425/65 R22.5
	2090	1080	1395	920		445/65 R22.5
<b>MSFH...LL 11810</b>	2045	900	1350	740	M / F	425/65 R22.5 <sup>3)</sup>
	2095	1030	1400	870		445/65 R22.5 <sup>3)</sup>

<sup>2)</sup> M = for diaphragm cylinder / F = for spring brake cylinder  
<sup>3)</sup> The load rating of the tyre entered in the drawing is unrelated to the axle load capacity. It is dependent on the information from the tyre manufacturer.

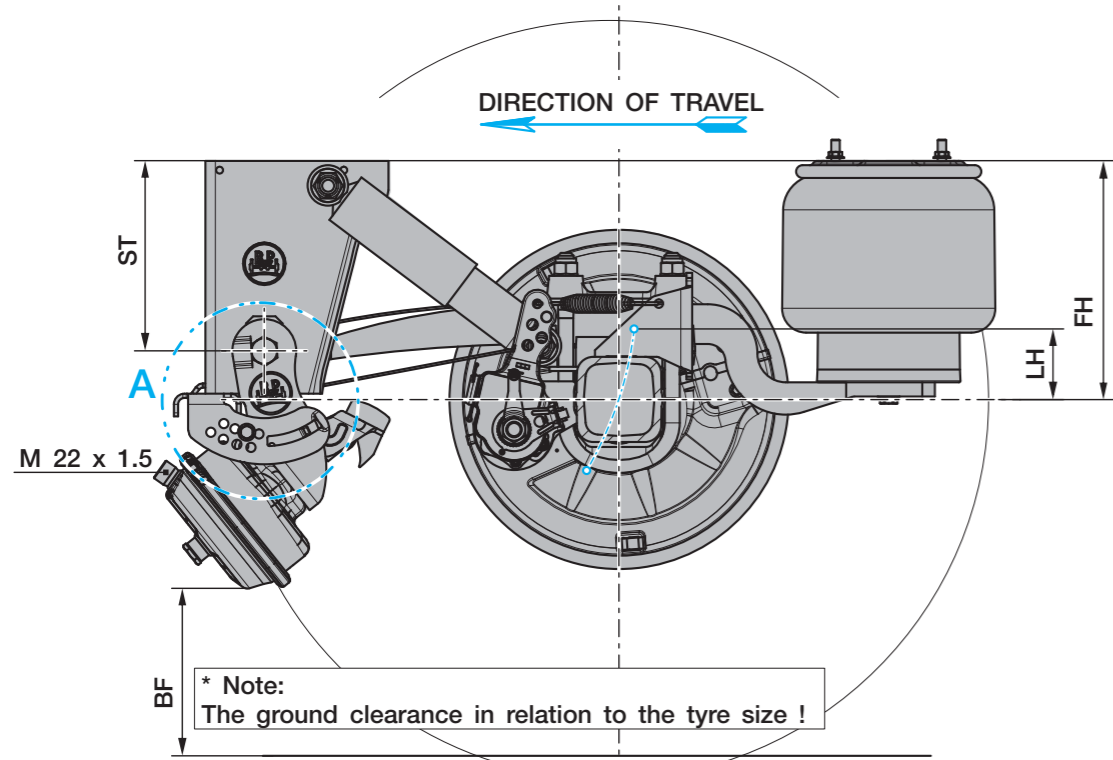


- > Max. inclination angle of the semitrailer under full load and lowest adjustable ride height ±1°
- > With trailing arm L1=500 / L2=380, bag pressures acc. to TE-1188.0 sheet 11
- > The hanger brackets, air bag supports and the frame must be reinforced so that the forces applied can be absorbed. See the current BPW installation instructions.

With 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 / 110	05.872.00.53.0	04.00.074453

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 Subject to change without notice.



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 Sheet 9, 9a	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			

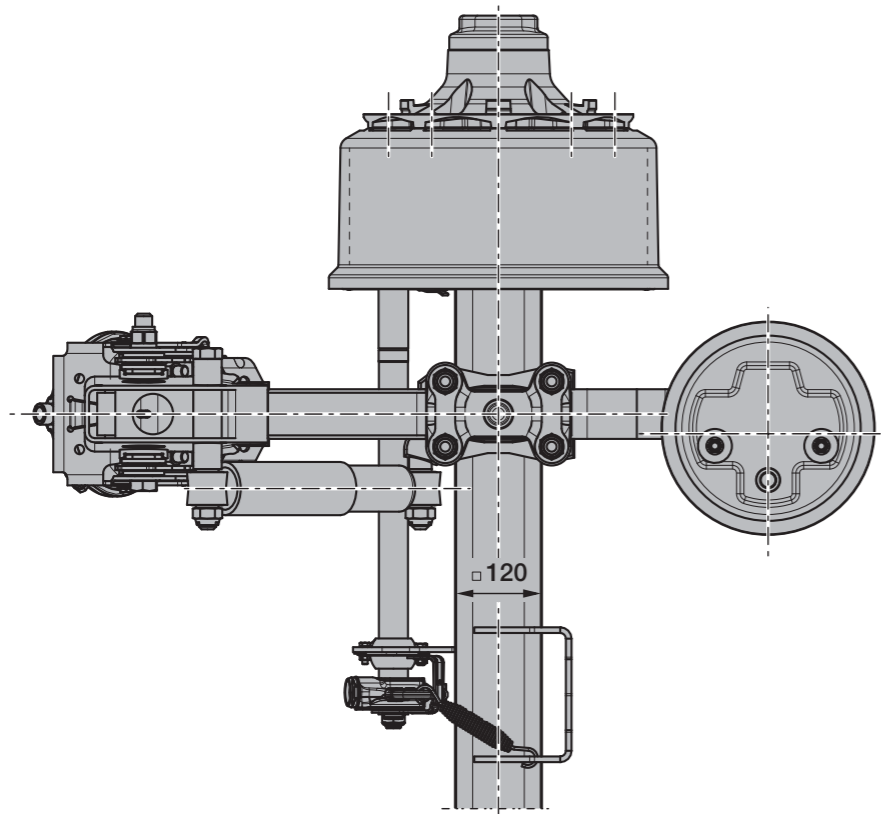
<sup>1)</sup> Ground clearance in relation to the set minimum ride height with the axle raised.

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

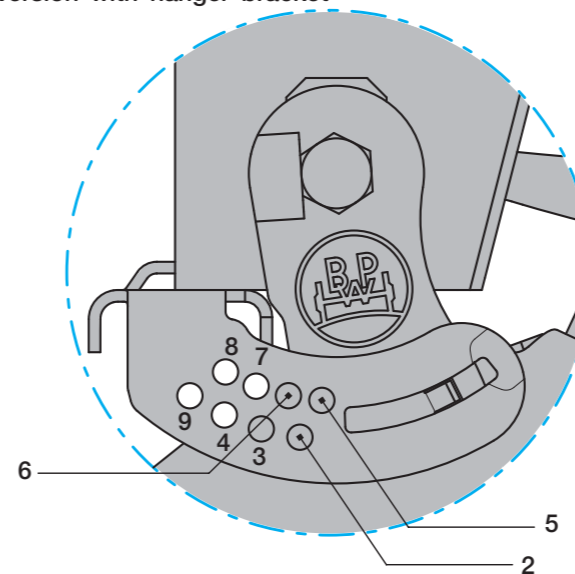
In the case of smaller tyres, it is necessary to check whether the doublesided axle lift can be used, according to the application.

<sup>2)</sup> Version A for 9t and 10t single tyre fitment, version B for 10t twin tyre fitment and 11,8t

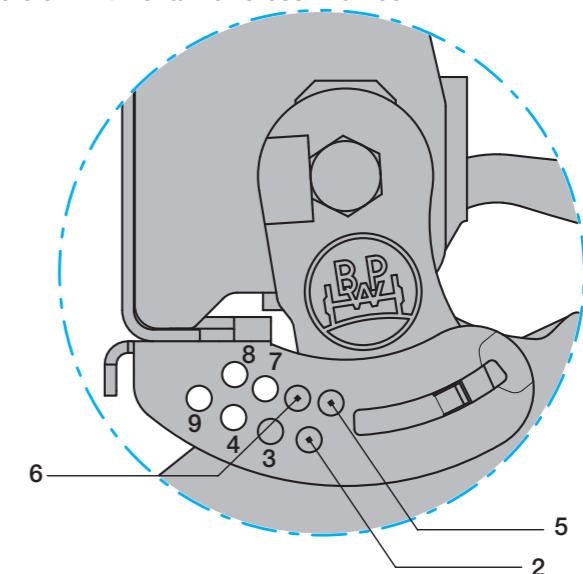
<sup>3)</sup> Lifting device for bolt-on bracket on demand.



Detail A  
Version with hanger bracket

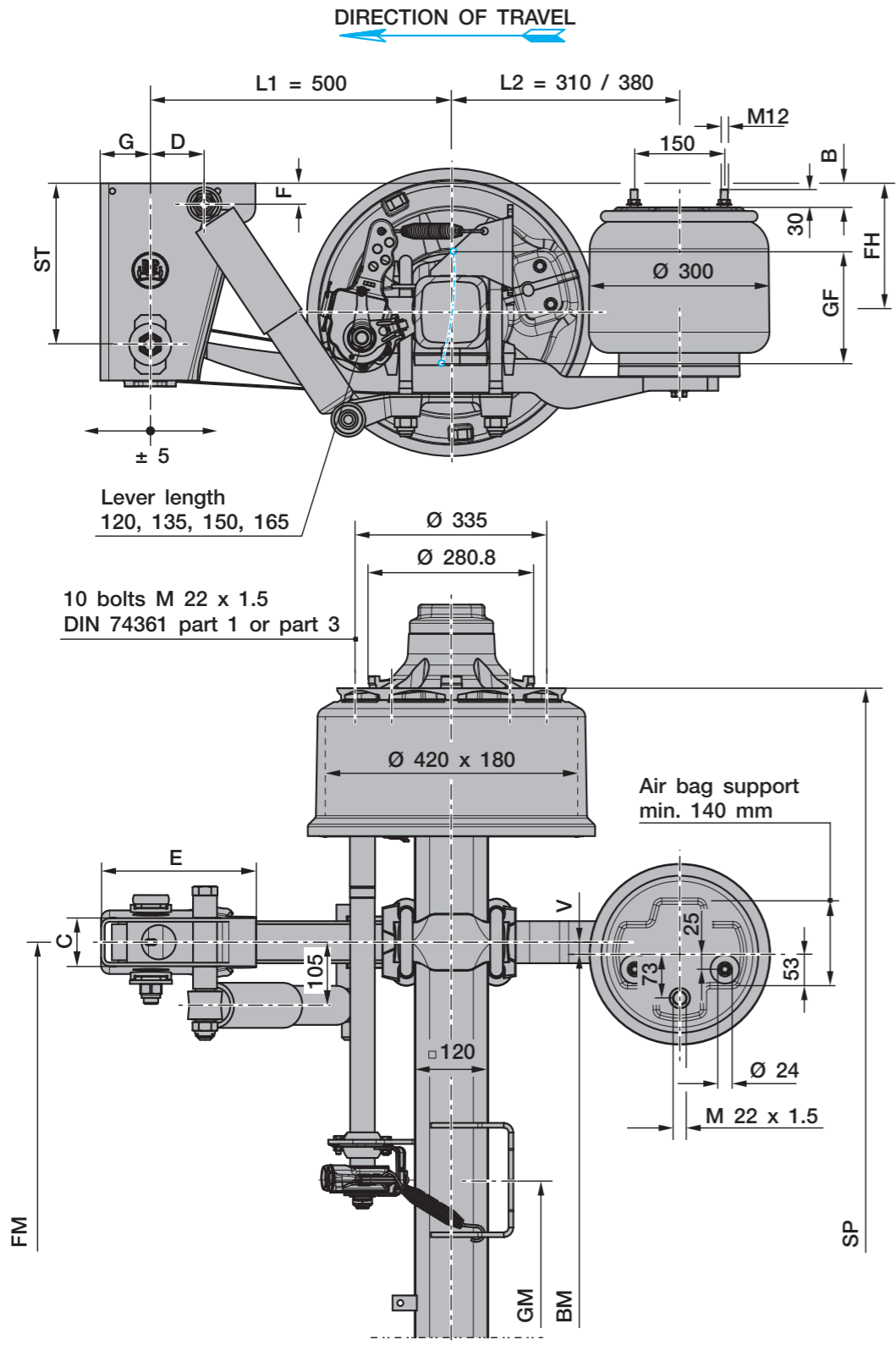


Detail A  
Version with channel cross member



- > 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.

Rev. 4 (10) 15.11.2016  
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
		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>	ALU	175 - 215	185 - 215	215	115	100	190	30K	...22.83.02	184	86	240	83	70	35	---
2	ALU	205 - 255	215 - 255	245	145	130	190	30K	...22.88.02	268	80	258	83	90	35	---
3	ALU	235 - 290	245 - 290	275	175	160	220	30	...22.88.02	268	80	258	83	90	35	---
4	ALU	260 - 300	270 - 300	300	200	185	220	30	...22.88.02	268	80	258	83	90	35	40

<sup>1)</sup> Lifting heights acc. to TD-1242.0  
<sup>2)</sup> The packer is not included in supplied package.  
<sup>3)</sup> Only suitable for semi-trailers / Centre axle drawbar trailer

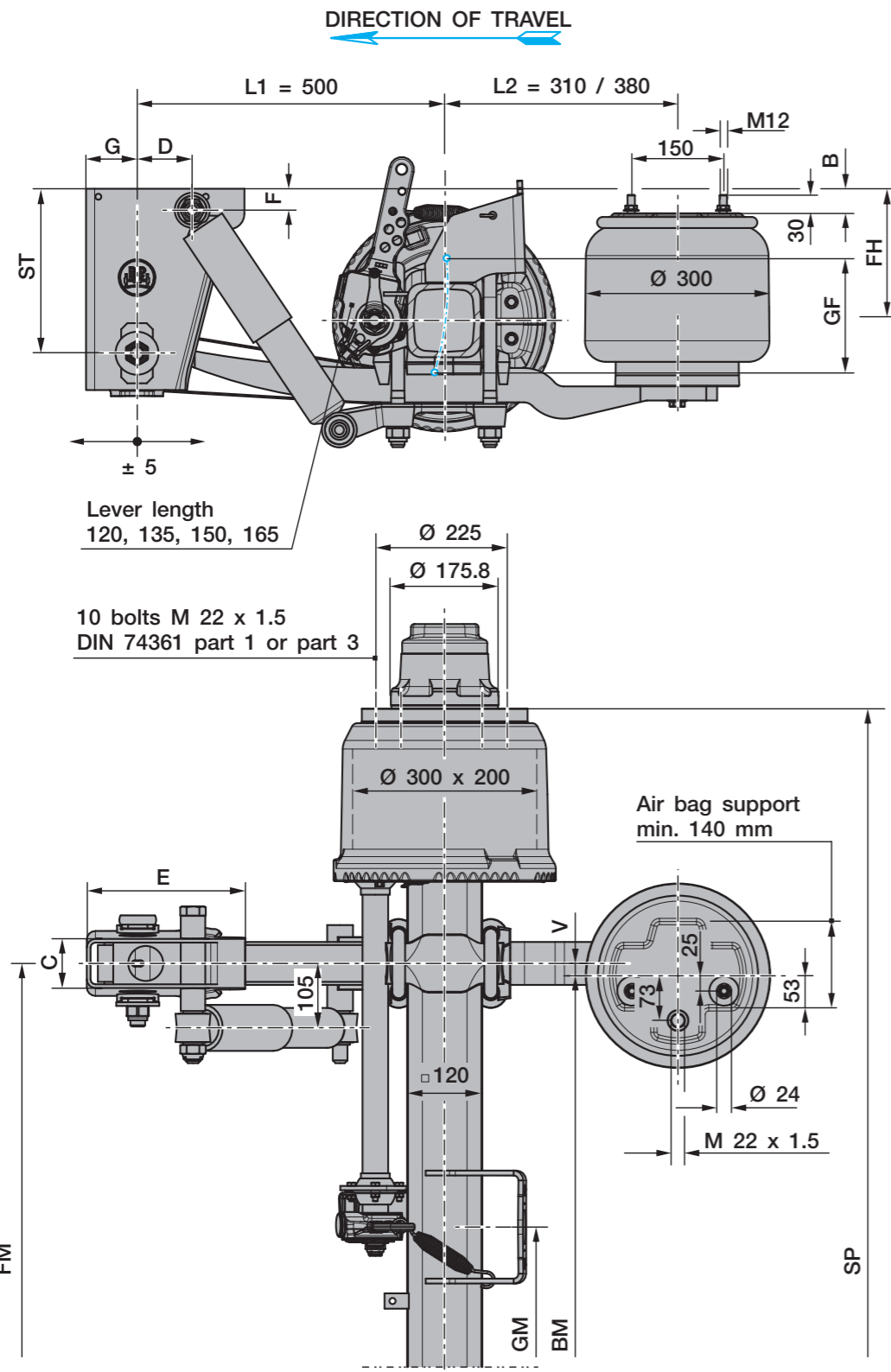
Axle type	Track SP	Spring centre FM	Booster bracket centre GM	Air bag centre BM		Brake cylinder <sup>4)</sup>	Tyres recommended
				V=20	V=60		
HSF...9010	2040	1200	409	1160	1080	M / F	385/65 R22.5 385/55 R22.5
				1260 <sup>5)</sup>	1180		
	2095	1300	464	1260	1180		
HZF...9010	1820	980	239	940	860	M / (F)	275/70 R22.5
				1880	980		
	1820	980	239	940	860		

<sup>4)</sup> M = for diaphragm cylinder / F = for spring brake cylinder  
<sup>5)</sup> V=20 only with trailer L1=500 / L2=380

- 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 TE-1188.0 sheet 18  
With trailing arm L1=500 / L2=380, bag pressures acc. to TE-1188.0 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. 3 (10) 11.07.2016  
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
		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>	ALU	175 - 215	185 - 215	215	115	100	190	30K	...22.83.02	184	86	240	83	70	35	---
2	ALU	205 - 255	215 - 255	245	145	130	190	30K	...22.88.02	268	80	258	83	90	35	---
3	ALU	235 - 290	245 - 290	275	175	160	220	30	...22.88.02	268	80	258	83	90	35	---
4	ALU	260 - 300	270 - 300	300	200	185	220	30	...22.88.02	268	80	258	83	90	35	40

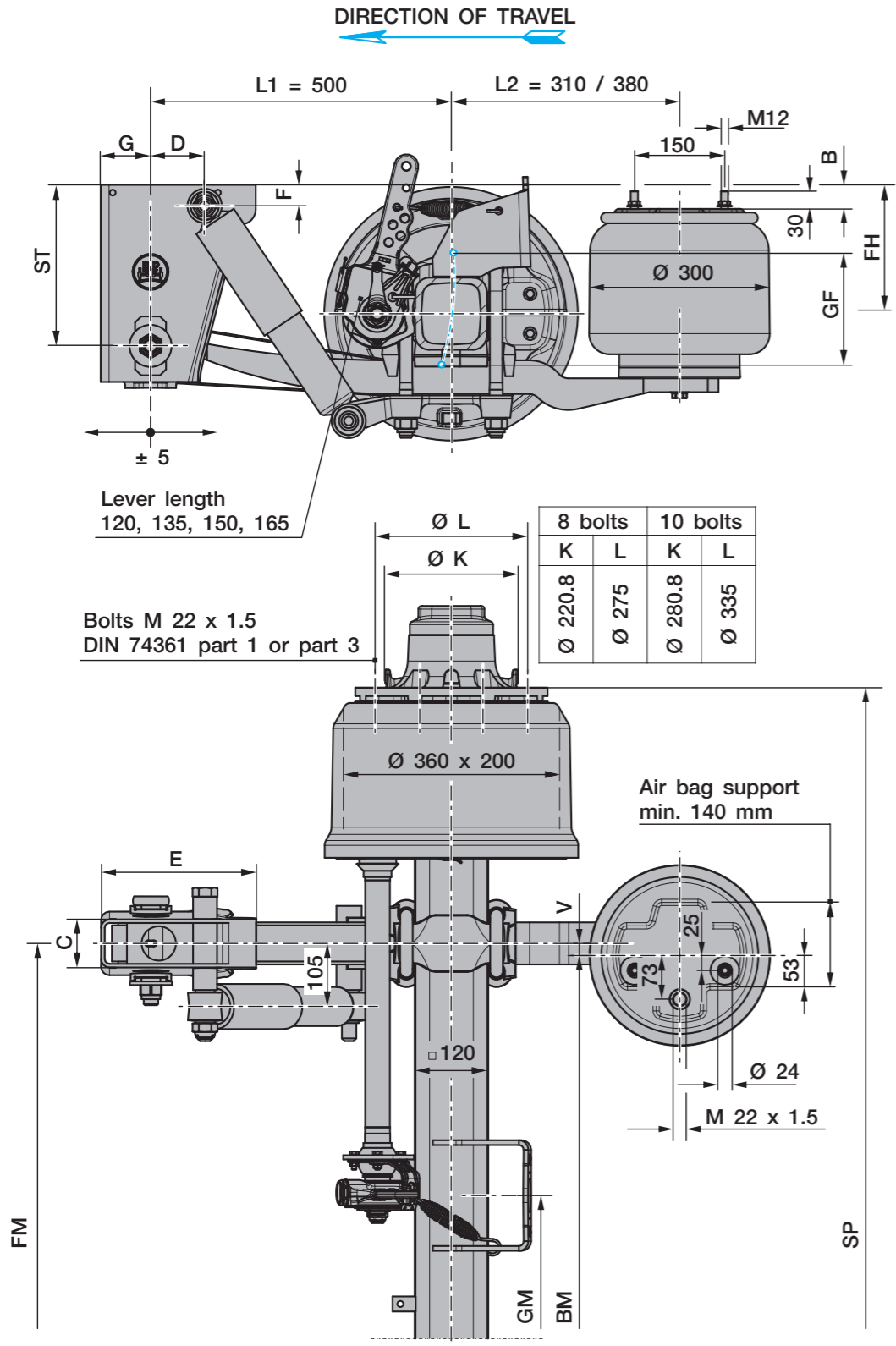
<sup>1)</sup> Lifting heights acc. to TD-1242.0  
<sup>2)</sup> The packer is not included in supplied package.  
<sup>3)</sup> Only suitable for semi-trailers / Centre axle drawbar trailer

Axle type	Track SP	Spring centre FM	Booster bracket centre GM	Air bag centre BM		Brake cylinder <sup>4)</sup>	Tyres recommended
				V=20	V=60		
NHZF...9010	1830	980	237	940	860	M / F	235/75 R17,5 245/70 R17,5
	1880	980	237	940	860		
	1950	1100	241	1060	980		
	1995	1100	286	1060	980		

<sup>4)</sup> M = for diaphragm cylinder / F = for spring brake cylinder

- > 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 TE-1188.0 sheet 18  
With trailing arm L1=500 / L2=380, bag pressures acc. to TE-1188.0 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		Packer <sup>2)</sup> B
		for single axles	for axle units	min. FH with axle raised	empty without air	loaded without air				ST	C	E	G	D	F	
1 <sup>3)</sup>	ALU	175 - 215	185 - 215	215	115	100	190	30K	...22.83.02	184	86	240	83	70	35	---
2	ALU	205 - 255	215 - 255	245	145	130	190	30K	...22.88.02	268	80	258	83	90	35	---
3	ALU	235 - 290	245 - 290	275	175	160	220	30	...22.88.02	268	80	258	83	90	35	---
4	ALU	260 - 300	270 - 300	300	200	185	220	30	...22.88.02	268	80	258	83	90	35	40

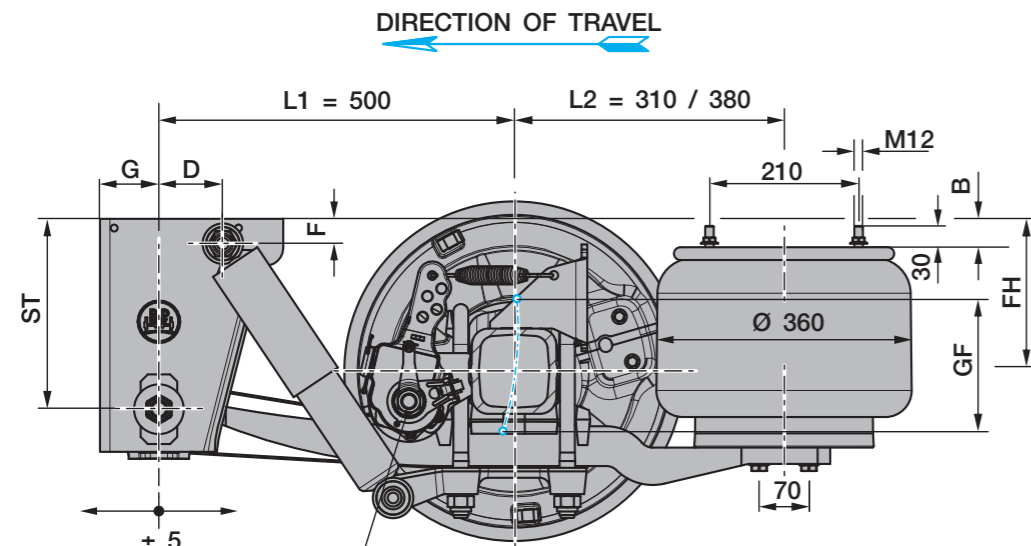
<sup>1)</sup> Lifting heights acc. to TD-1242.0  
<sup>2)</sup> The packer is not included in supplied package.  
<sup>3)</sup> Only suitable for semi-trailers / Centre axle drawbar trailer

Axle type	Track SP with axle type		Spring centre FM	Booster bracket centre GM	Air bag centre BM		Brake cylinder <sup>4)</sup>	Tyres recommended
	...9008	...9010			V=20	V=60		
KHSF...90..	2045	2040	1200	361	1160	1080	M / F	385/65 R19.5 <sup>5)</sup> 425/55 R19.5
			1300		1260	1180		
KHZF...90..	1835	---	980	237	---	860	M / F	245/70 R19.5 265/70 R19.5
			980		940	860		
			1100		---	980		

<sup>4)</sup> M = for diaphragm cylinder / F = for spring brake cylinder  
<sup>5)</sup> The load rating of the tyre entered in the drawing is unrelated to the axle load capacity. It is dependent on the information from the tyre manufacturer.

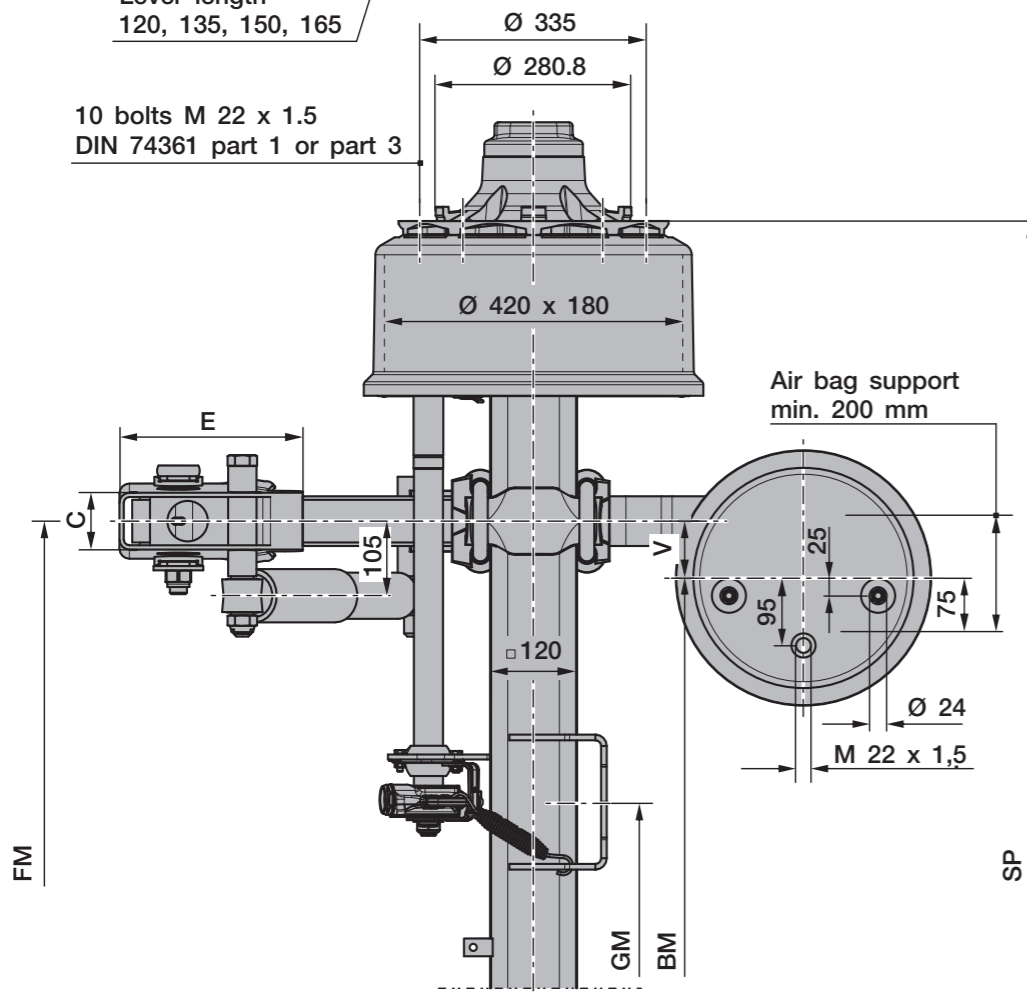
- > Max. inclination angle of the semitrailer under full load and lowest adjustable ride height ±1°
- > With trailing arm L1=500 / L2=310, bag pressures acc. to TE-1188.0 sheet 18  
With trailing arm L1=500 / L2=380, bag pressures acc. to TE-1188.0 sheet 15
- > The hanger brackets, air bag supports and the frame must be reinforced so that the forces applied can be absorbed. See the current BPW installation instructions.

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Subject to change without notice.



Lever length  
120, 135, 150, 165

10 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 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>	ALU	175 - 215	185 - 215	215	115	100	190	36K	...22.83.02	184	86	240	83	70	35	---
2	ALU	205 - 255	215 - 255	245	145	130	190	36K	...22.88.02	268	80	258	83	90	35	---
3	ALU	235 - 290	245 - 290	275	175	160	220	36	...22.88.02	268	80	258	83	90	35	---
4	ALU	260 - 300	270 - 300	300	200	185	220	36	...22.88.02	268	80	258	83	90	35	40

<sup>1)</sup> Lifting heights acc. to TD-1242.0  
<sup>2)</sup> The packer is not included in supplied package.  
<sup>3)</sup> Only suitable for semi-trailers / Centre axle drawbar trailer

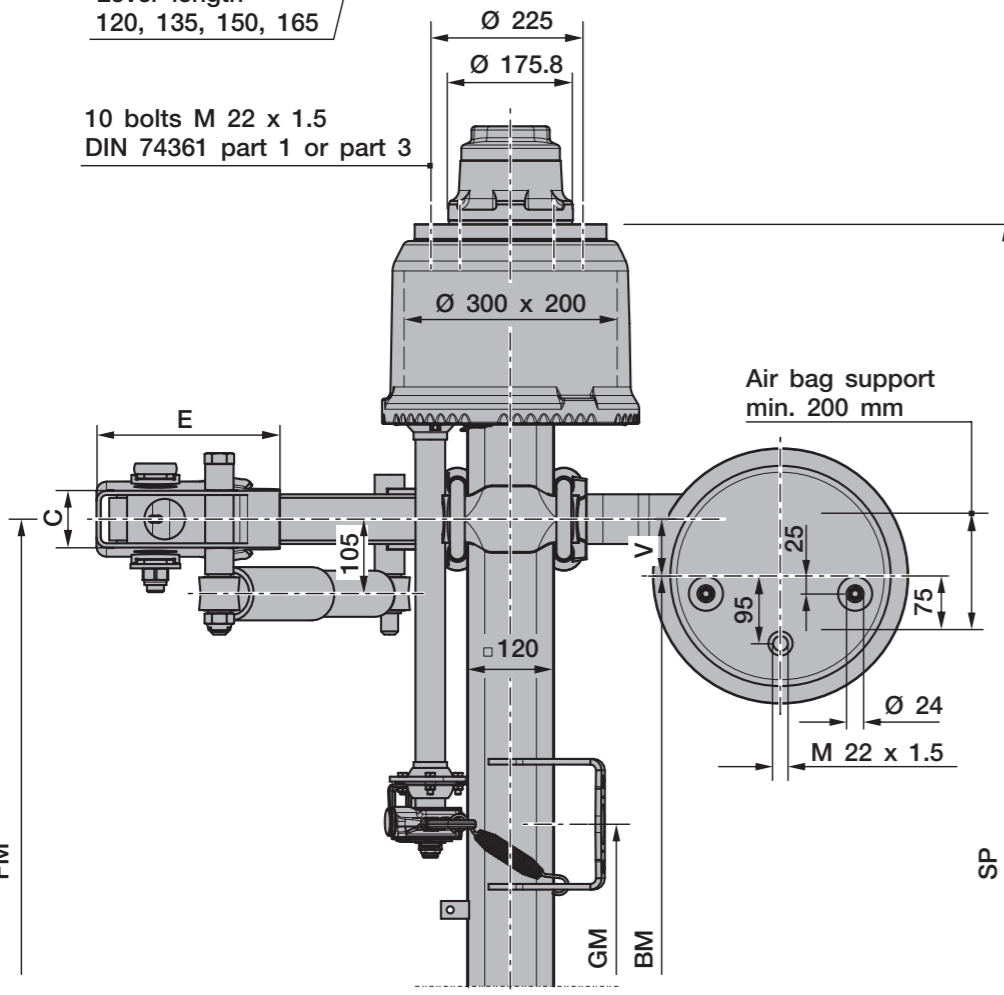
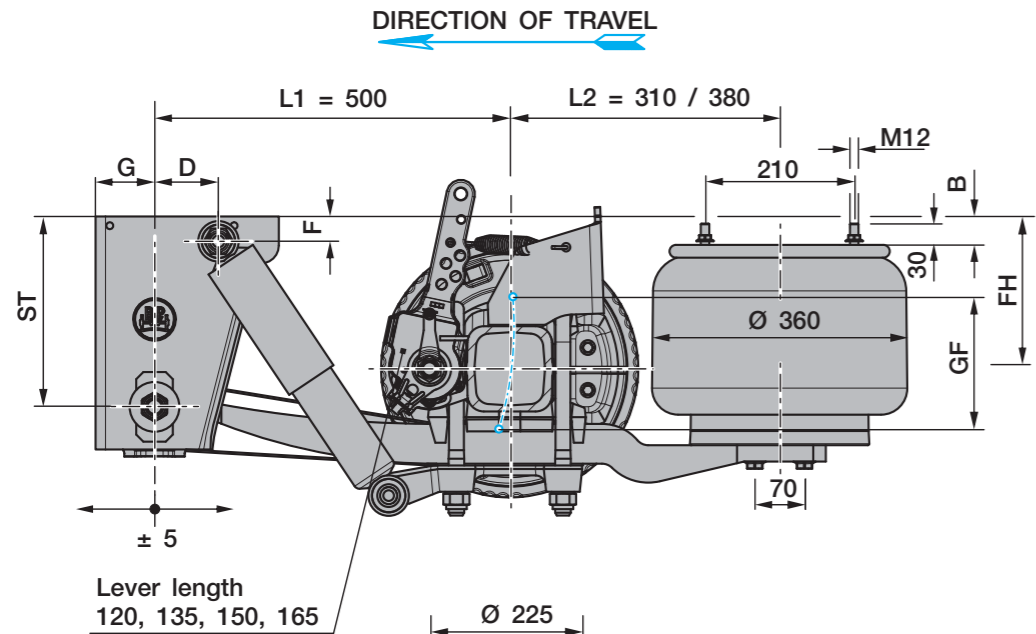
Axle type	Track SP	Spring centre FM	Booster bracket centre GM	Air bag centre BM V=80	Brake cylinder <sup>4)</sup>	Tyres recommended
HSF...9010	2040	1200	409	1040	M / F	385/65 R22.5 385/55 R22.5
		1300		1140		
	2095	1300	464	1140		
HZF...9010	1820	980	239	820	M / (F) <sup>5)</sup>	275/70 R22.5
		1880		980		
	1880	980	299	820		

<sup>4)</sup> M = for diaphragm cylinder / F = for spring brake cylinder  
<sup>5)</sup> Use F-booster bracket with spring brake cylinder.

- > 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 TE-1188.0 sheet 5  
With trailing arm L1=500 / L2=380, bag pressures acc. to TE-1188.0 sheet 11
- > The hanger brackets, air bag supports and the frame must be reinforced so that the forces applied can be absorbed. See the current BPW installation instructions.

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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
		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>	ALU	175 - 215	185 - 215	215	115	100	190	36K	...22.83.02	184	86	240	83	70	35	---
2	ALU	205 - 255	215 - 255	245	145	130	190	36K	...22.88.02	268	80	258	83	90	35	---
3	ALU	235 - 290	245 - 290	275	175	160	220	36	...22.88.02	268	80	258	83	90	35	---
4	ALU	260 - 300	270 - 300	300	200	185	220	36	...22.88.02	268	80	258	83	90	35	40

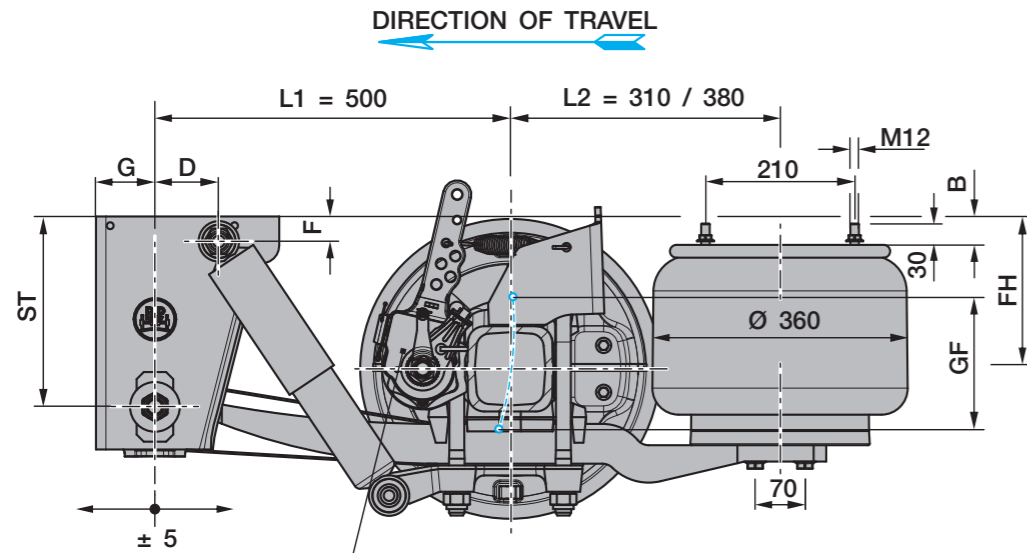
<sup>1)</sup> Lifting heights acc. to TD-1242.0  
<sup>2)</sup> The packer is not included in supplied package.  
<sup>3)</sup> Only suitable for semi-trailers / Centre axle drawbar trailer

Axle type	Track SP	Spring centre FM	Booster bracket centre GM	Air bag centre BM V=80	Brake cylinder <sup>4)</sup>	Tyres recommended
NHZF...9010	1830	980	237	820	M / (F) <sup>5)</sup>	235/75 R17,5 245/70 R17,5
	1880	980	237	820		
	1950	1100	241	940	M / F	
	1995	1100	286	940		

<sup>4)</sup> M = for diaphragm cylinder / F = for spring brake cylinder  
<sup>5)</sup> Use F-booster bracket with spring brake cylinder.

- > 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 TE-1188.0 sheet 5  
With trailing arm L1=500 / L2=380, bag pressures acc. to TE-1188.0 sheet 11
- > The hanger brackets, air bag supports and the frame must be reinforced so that the forces applied can be absorbed. See the current BPW installation instructions.

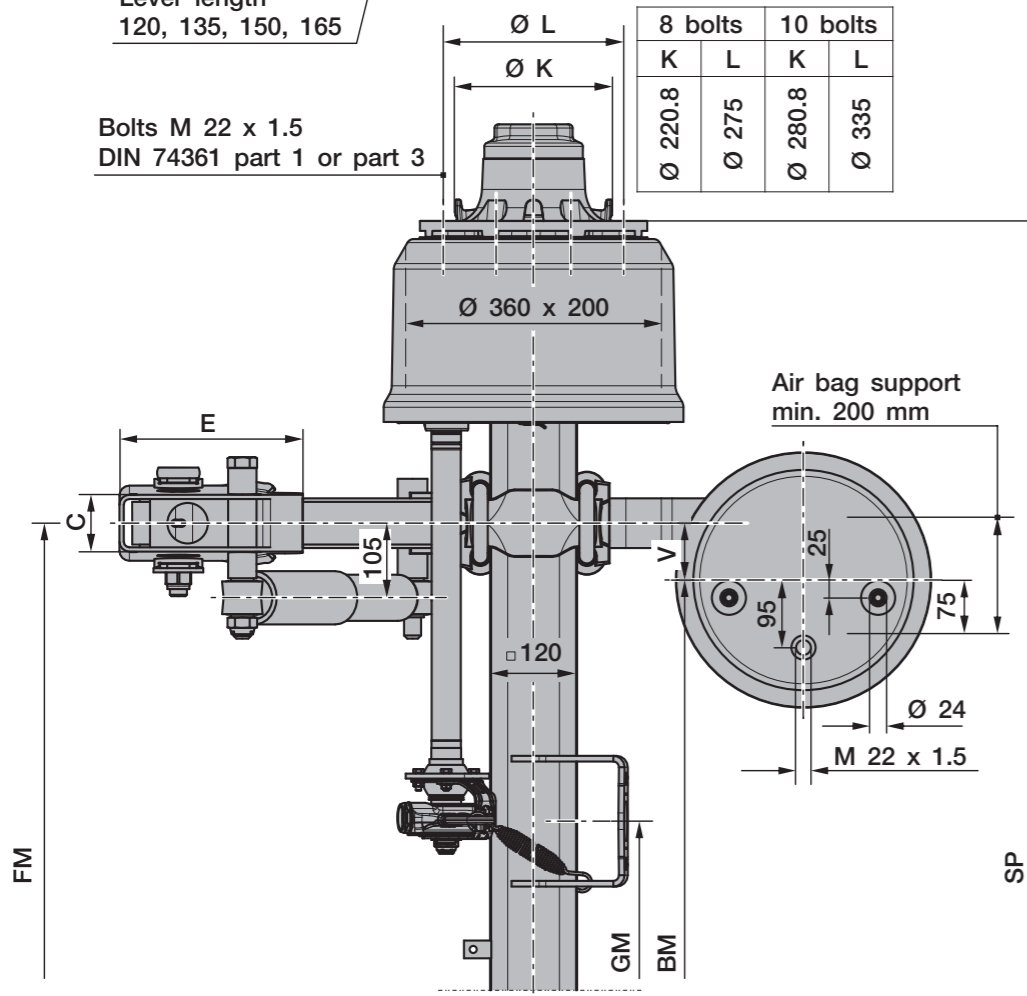
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Subject to change without notice.



Lever length  
120, 135, 150, 165

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



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 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>	ALU	175 - 215	185 - 215	215	115	100	190	36K	...22.83.02	184	86	240	83	70	35	---
2	ALU	205 - 255	215 - 255	245	145	130	190	36K	...22.88.02	268	80	258	83	90	35	---
3	ALU	235 - 290	245 - 290	275	175	160	220	36	...22.88.02	268	80	258	83	90	35	---
4	ALU	260 - 300	270 - 300	300	200	185	220	36	...22.88.02	268	80	258	83	90	35	40

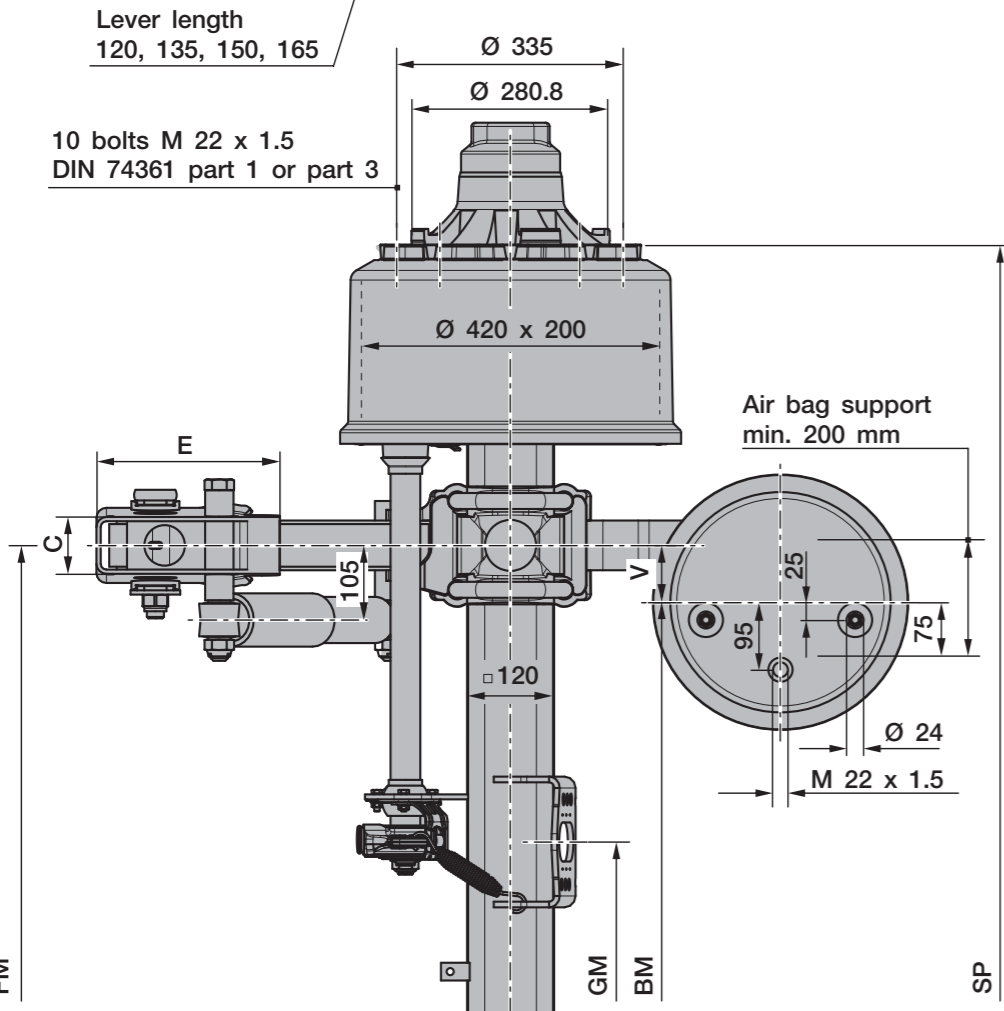
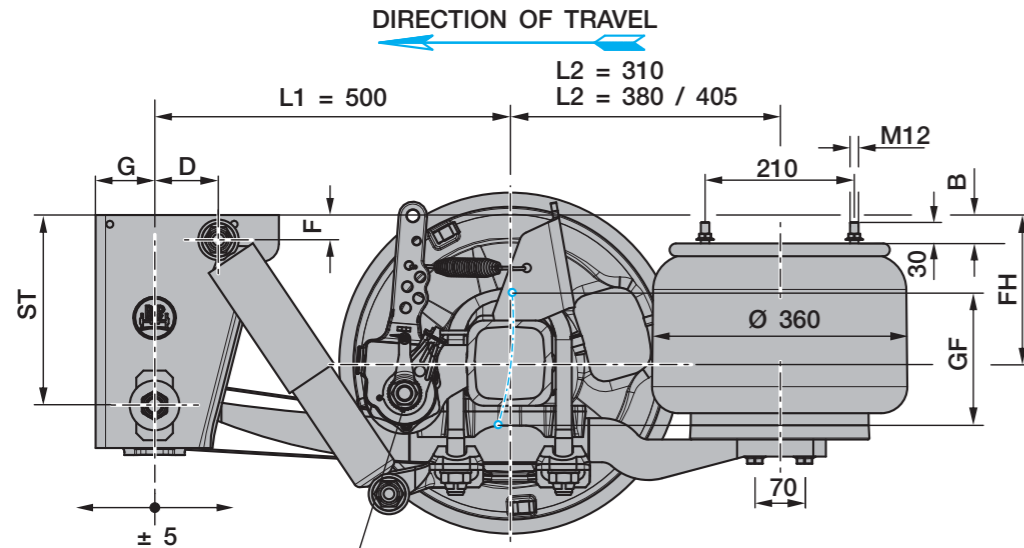
<sup>1)</sup> Lifting heights acc. to TD-1242.0  
<sup>2)</sup> The packer is not included in supplied package.  
<sup>3)</sup> Only suitable for semi-trailers / Centre axle drawbar trailer

Axle type	Track SP with axle type		Spring centre FM	Booster bracket centre GM	Air bag centre BM V=80	Brake cylinder <sup>4)</sup>	Tyres recommended
	...9008	...9010					
KHSF...90..	2045	2040	1200	361	1040	M / F	385/65 R19.5 <sup>6)</sup> 425/55 R19.5
			1300		1140		
KHZF...90..	1835	---	980	237	820	M / (F) <sup>5)</sup>	245/70 R19.5 265/70 R19.5
			980		820		
			1100		940		

<sup>4)</sup> M = for diaphragm cylinder / F = for spring brake cylinder  
<sup>5)</sup> Use F-booster bracket with spring brake cylinder.  
<sup>6)</sup> The load rating of the tyre entered in the drawing is unrelated to the axle load capacity. It is dependent on the information from the tyre manufacturer.

- > 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 TE-1188.0 sheet 5  
With trailing arm L1=500 / L2=380, bag pressures acc. to TE-1188.0 sheet 11
- > The hanger brackets, air bag supports and the frame must be reinforced so that the forces applied can be absorbed. See the current BPW installation instructions.

Rev. 2 (10) 11.07.2016  
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
		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>	ALU	175 - 215	185 - 215	215	115	100	190	36K	...22.83.02	184	86	240	83	70	35	---
2	ALU	205 - 255	215 - 255	245	145	130	190	36K	...22.88.02	268	80	258	83	90	35	---
3	ALU	235 - 290	245 - 290	275	175	160	220	36	...22.88.02	268	80	258	83	90	35	---
4	ALU	260 - 300	270 - 300	300	200	185	220	36	...22.88.02	268	80	258	83	90	35	40

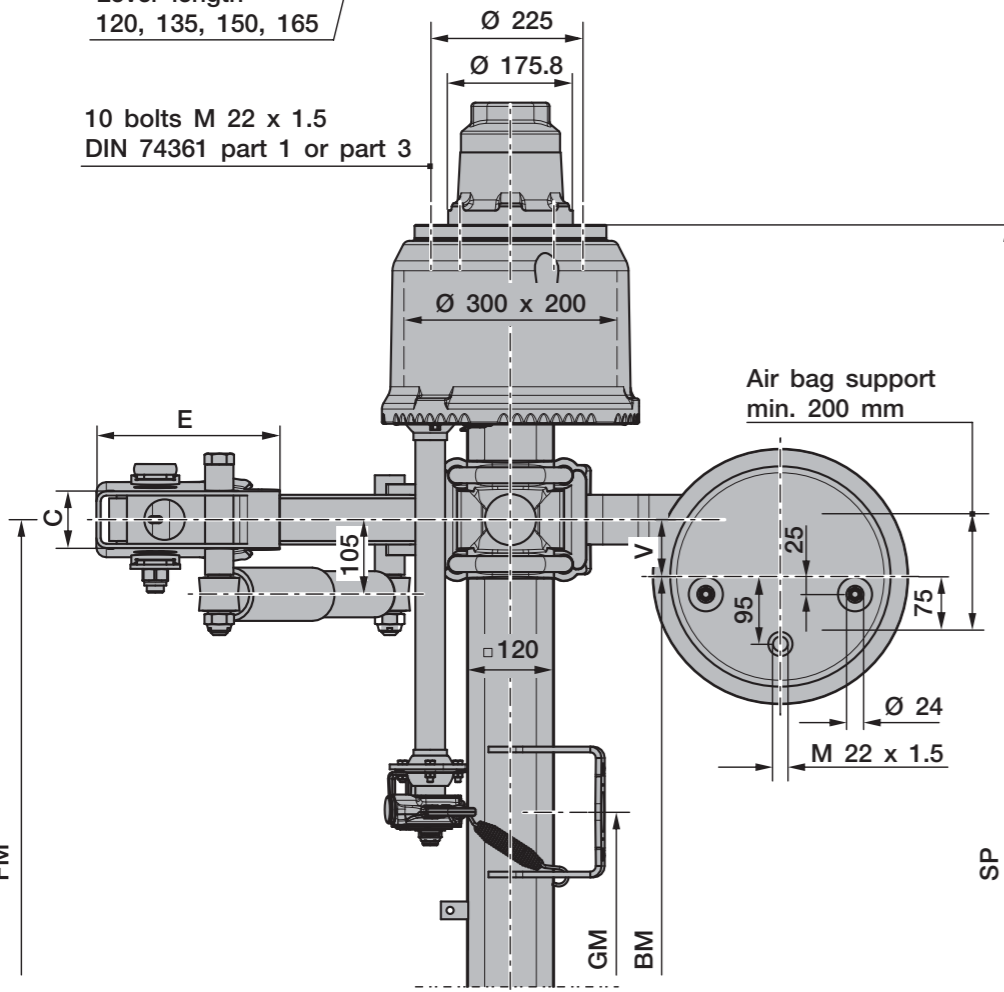
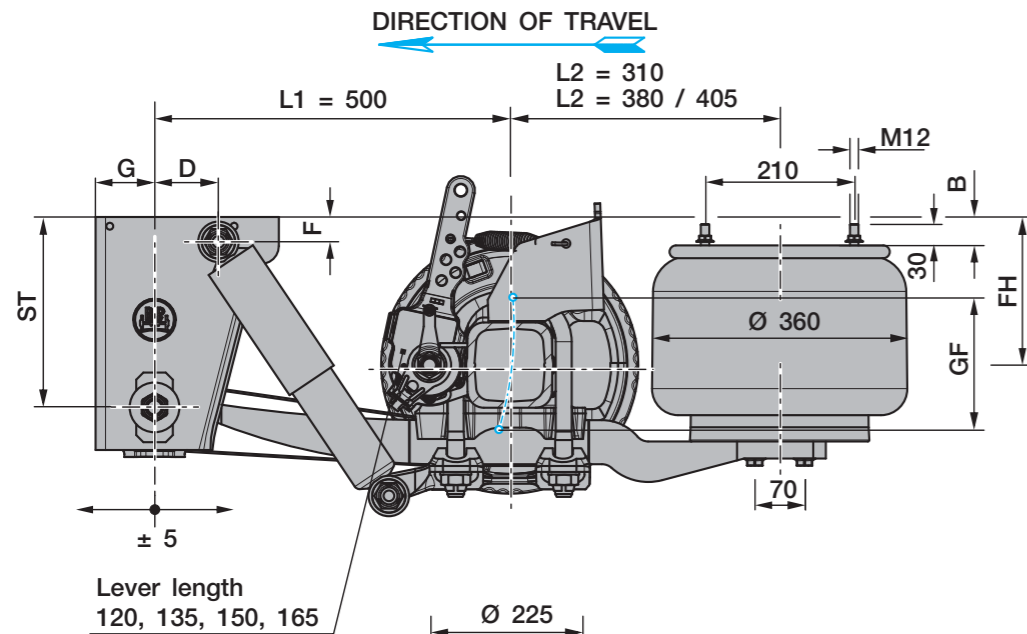
<sup>1)</sup> Lifting heights acc. to TD-1242.0  
<sup>2)</sup> The packer is not included in supplied package.  
<sup>3)</sup> Only suitable for semi-trailers / Centre axle drawbar trailer

Axle type	Track SP	Spring centre FM	Booster bracket centre GM	Air bag centre BM V=80	Brake cylinder <sup>4)</sup>	Tyres recommended
HSF...10110	2040	1200	365	1040	M / F	425/65 R22.5 <sup>6)</sup>
HSF...11810		1300		1140		445/65 R22.5 <sup>6)</sup>
HZF...10110	1880	980	251	820	M / (F) <sup>5)</sup>	275/70 R22.5 <sup>6)</sup>
HZF...11810						295/80 R22.5

<sup>4)</sup> M = for diaphragm cylinder / F = for spring brake cylinder  
<sup>5)</sup> Use F-booster bracket with spring brake cylinder.  
<sup>6)</sup> The load rating of the tyre entered in the drawing is unrelated to the axle load capacity. It is dependent on the information from the tyre manufacturer.

- > 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 TE-1188.0 sheet 5  
 With trailing arm L1=500 / L2=380, bag pressures acc. to TE-1188.0 sheet 11  
 With trailing arm L1=500 / L2=405, bag pressures acc. to TE-1188.0 sheet 31
- > The hanger brackets, air bag supports and the frame must be reinforced so that the forces applied can be absorbed. See the current BPW installation instructions.

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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 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>	ALU	175 - 215	185 - 215	215	115	100	190	36K	...22.83.02	184	86	240	83	70	35	---
2	ALU	205 - 255	215 - 255	245	145	130	190	36K	...22.88.02	268	80	258	83	90	35	---
3	ALU	235 - 290	245 - 290	275	175	160	220	36	...22.88.02	268	80	258	83	90	35	---
4	ALU	260 - 300	270 - 300	300	200	185	220	36	...22.88.02	268	80	258	83	90	35	40

<sup>1)</sup> Lifting heights acc. to TD-1242.0  
<sup>2)</sup> The packer is not included in supplied package.  
<sup>3)</sup> Only suitable for semi-trailers / Centre axle drawbar trailer

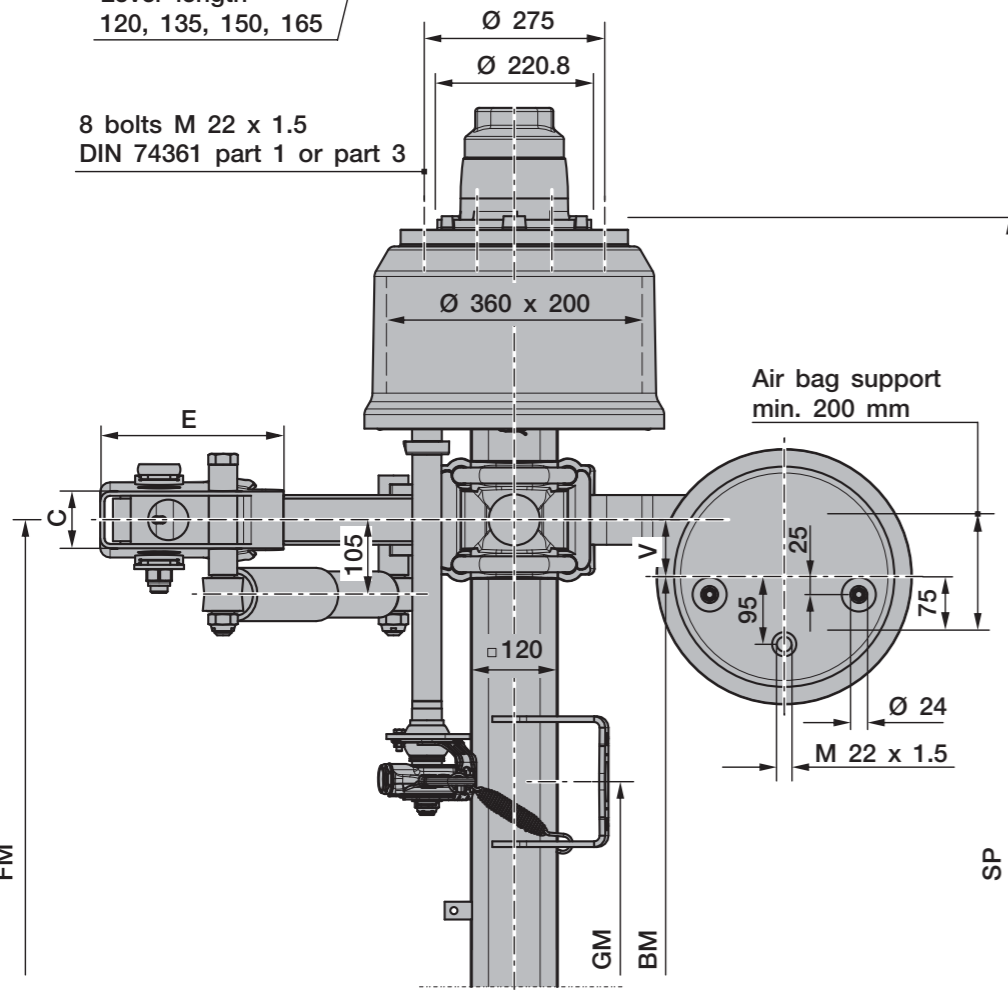
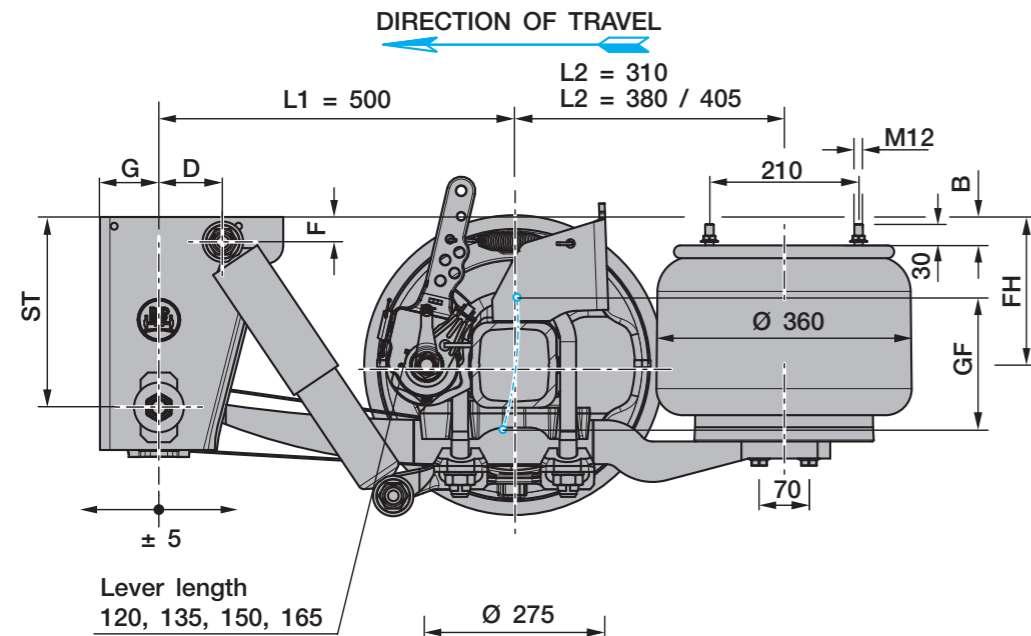
Axle type	Track SP	Spring centre FM	Booster bracket centre GM	Air bag centre BM V=80	Brake cylinder <sup>4)</sup>	Tyres recommended
NHZF...11010 NHZF...12010	1830	980	239	820	M / (F) <sup>5)</sup>	235/75 R17,5 <sup>7)</sup> 245/70 R17,5 <sup>7)</sup>
	1880 <sup>6)</sup>	980	239	820		
	1950	1100	243	940	M / F	
	1995 <sup>6)</sup>	1100	288	940		

<sup>4)</sup> M = for diaphragm cylinder / F = for spring brake cylinder  
<sup>5)</sup> Use F-booster bracket with spring brake cylinder.  
<sup>6)</sup> Axle load max. 10t  
<sup>7)</sup> The load rating of the tyre entered in the drawing is unrelated to the axle load capacity. It is dependent on the information from the tyre manufacturer.

- > 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 TE-1188.0 sheet 5  
 With trailing arm L1=500 / L2=380, bag pressures acc. to TE-1188.0 sheet 11  
 With trailing arm L1=500 / L2=405, bag pressures acc. to TE-1188.0 sheet 31
- > The hanger brackets, air bag supports and the frame must be reinforced so that the forces applied can be absorbed. See the current BPW installation instructions.

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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 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>	ALU	175 - 215	185 - 215	215	115	100	190	36K	...22.83.02	184	86	240	83	70	35	---
2	ALU	205 - 255	215 - 255	245	145	130	190	36K	...22.88.02	268	80	258	83	90	35	---
3	ALU	235 - 290	245 - 290	275	175	160	220	36	...22.88.02	268	80	258	83	90	35	---
4	ALU	260 - 300	270 - 300	300	200	185	220	36	...22.88.02	268	80	258	83	90	35	40

<sup>1)</sup> Lifting heights acc. to TD-1242.0  
<sup>2)</sup> The packer is not included in supplied package.  
<sup>3)</sup> Only suitable for semi-trailers / Centre axle drawbar trailer

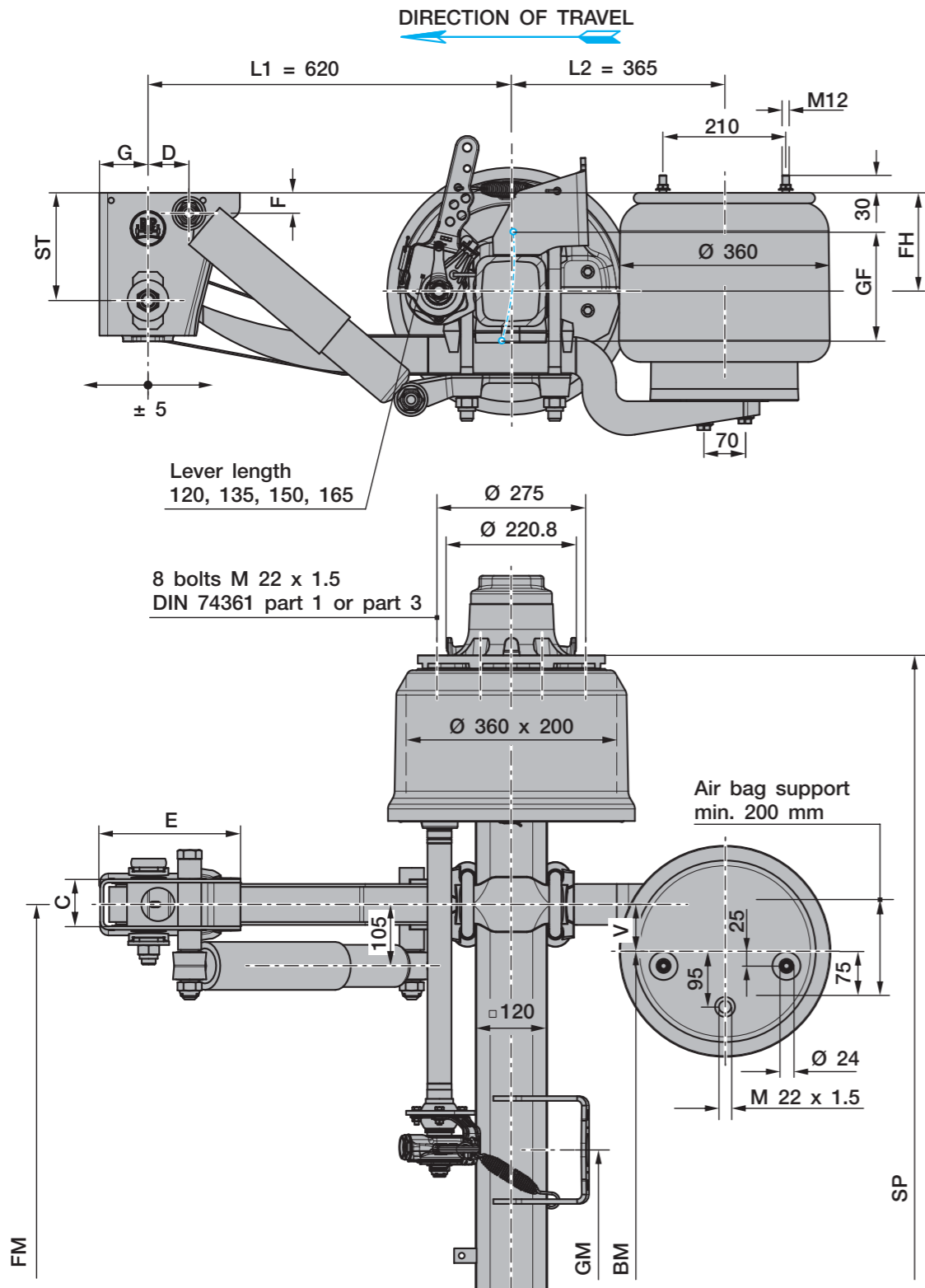
Axle type	Track SP with axle type		Spring centre FM	Booster bracket centre GM	Air bag centre BM V=80	Brake cylinder <sup>4)</sup>	Tyres recommended
	10008	12008					
KHZF...10008 KHZF...12008	1830	-	900	239	740	M / (F) <sup>5)</sup>	265/70 R19.5 <sup>6)</sup> 285/70 R19.5 <sup>7)</sup>
	1880	1880 1930	980 1100	289 339	820 940		

<sup>4)</sup> M = for diaphragm cylinder / F = for spring brake cylinder  
<sup>5)</sup> Use F-booster bracket with spring brake cylinder.  
<sup>6)</sup> The load rating of the tyre entered in the drawing is unrelated to the axle load capacity. It is dependent on the information from the tyre manufacturer.  
<sup>7)</sup> Tyre 285/70 R19.5 only possible with track 1880 and spring centre 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 TE-1188.0 sheet 5  
 With trailing arm L1=500 / L2=380, bag pressures acc. to TE-1188.0 sheet 11  
 With trailing arm L1=500 / L2=405, bag pressures acc. to TE-1188.0 sheet 31
- > The hanger brackets, air bag supports and the frame must be reinforced so that the forces applied can be absorbed. See the current BPW installation instructions.

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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 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)3)</sup>	ALU	185 - 280	195 - 280	225	125	110	300	36-1	...02.20.02	184	86	240	83	70	35
2 <sup>3)</sup>	ALU	215 - 350	225 - 350	255	155	140	310	36-1	...02.20.02	268	80	258	83	90	35

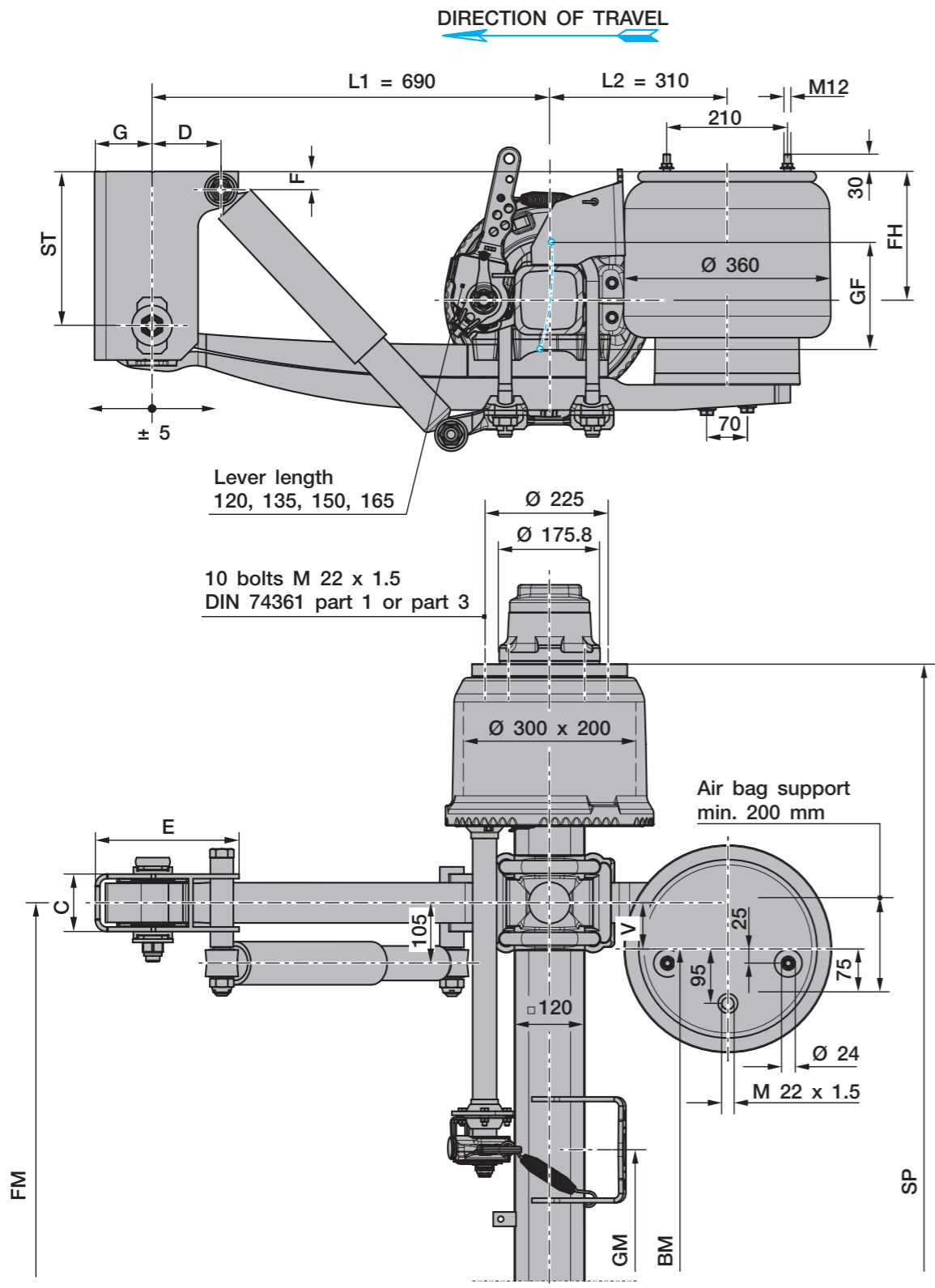
<sup>1)</sup> Lifting heights acc. to TD-1242.0  
<sup>2)</sup> Only suitable for semi-trailers / Centre axle drawbar trailer  
<sup>3)</sup> In the lifting and lowering version, the total spring travel must be limited by a shut off valve.

Axle type	Track SP	Spring centre FM	Booster bracket centre GM	Air bag centre BM V=80	Brake cylinder <sup>4)</sup>	Tyres recommended
KHSF...9008	2005	1200	321	1040	M / F	385/55 R19.5 <sup>6)</sup>
	2045	1200	361	1040		435/50 R19.5
		1300		1140	445/45 R19.5	
KHZF...9008	1835 <sup>2)</sup>	900	237	820	M / (F) <sup>5)</sup>	265/70 R19.5

<sup>4)</sup> M = for diaphragm cylinder / F = for spring brake cylinder  
<sup>5)</sup> Use F-booster bracket with spring brake cylinder.  
<sup>6)</sup> The load rating of the tyre entered in the drawing is unrelated to the axle load capacity. It is dependent on the information from the tyre manufacturer.

- > Max. inclination angle of the semitrailer under full load and lowest adjustable ride height ±1°
- > With trailing arm L1=620 / L2=365, bag pressures acc. to TE-1188.0 sheet 28
- > The hanger brackets, air bag supports and the frame must be reinforced so that the forces applied can be absorbed. See the current BPW installation instructions.

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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 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

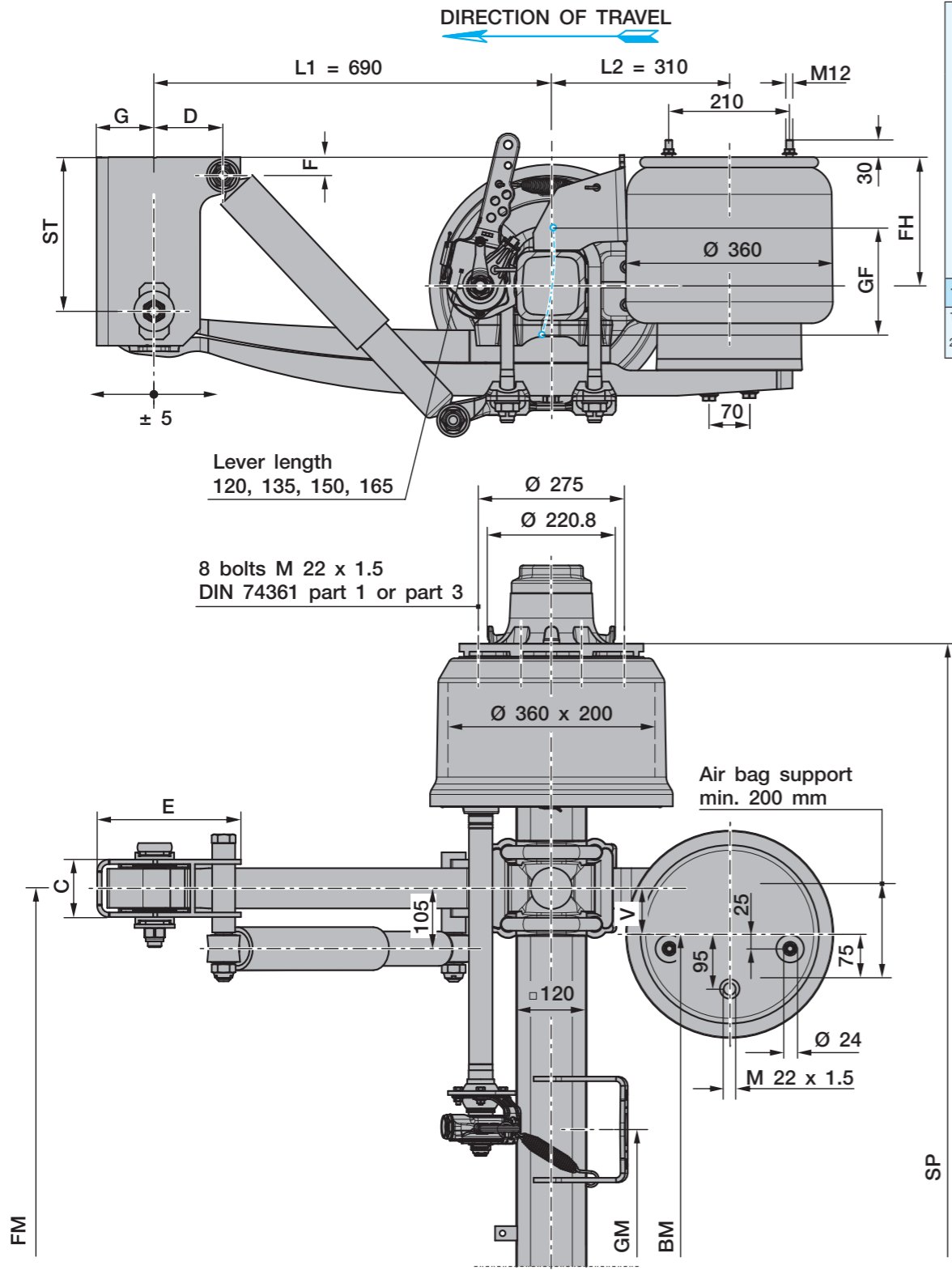
<sup>1)</sup> Lifting heights acc. to TD-1242.0  
<sup>2)</sup> In the lifting and lowering version, the total spring travel must be limited by a shut off valve.

Axle type	Track SP	Spring centre FM	Booster bracket centre GM	Air bag centre BM V=80	Brake cylinder <sup>3)</sup>	Tyres recommended
NHZF...9010	1830	980	237	820	M / (F) <sup>4)</sup>	235/75 R17,5 245/70 R17,5
	1950	1100	241	940		
NHZF...10010	1830 <sup>5)</sup>	980	239	820		
	1950	1100	243	940		

<sup>3)</sup> M = for diaphragm cylinder / F = for spring brake cylinder  
<sup>4)</sup> Use F-booster bracket with spring brake cylinder.  
<sup>5)</sup> Only suitable for semi-trailers / Centre axle drawbar trailer

- > Max. inclination angle of the semitrailer under full load and lowest adjustable ride height ±1°
- > With trailing arm L1=690 / L2=310, bag pressures acc. to TE-1188.0 sheet 19
- > The hanger brackets, air bag supports and the frame must be reinforced so that the forces applied can be absorbed. See the current BPW installation instructions.

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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 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

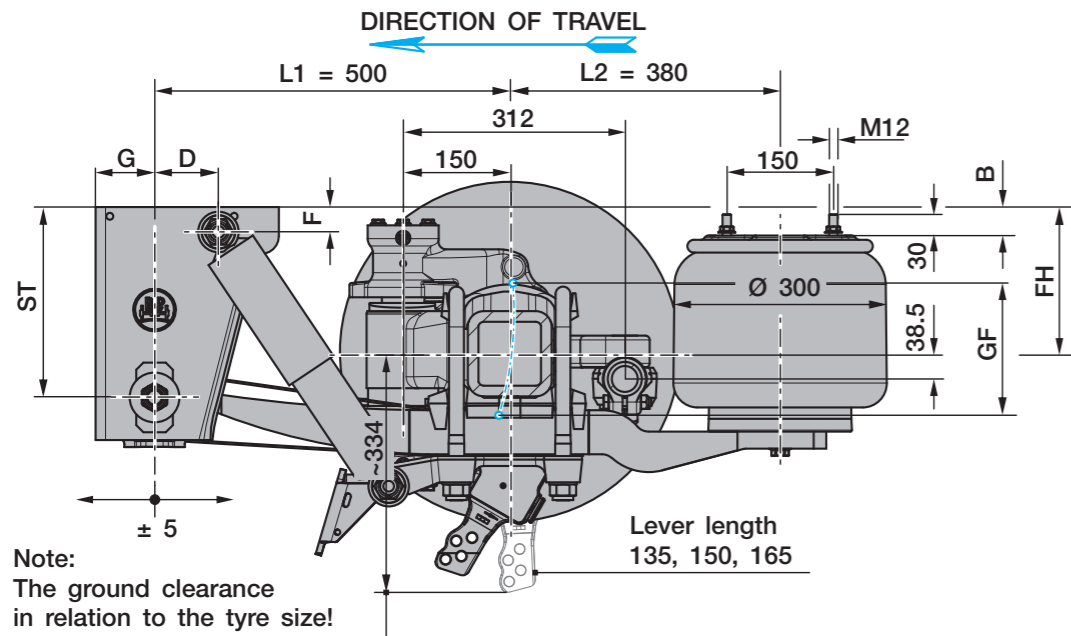
<sup>1)</sup> Lifting heights acc. to TD-1242.0  
<sup>2)</sup> In the lifting and lowering version, the total spring travel must be limited by a shut off valve.

Axle type	Track SP	Spring centre FM	Booster bracket centre GM	Air bag centre BM V=80	Brake cylinder <sup>3)</sup>	Tyres recommended
KHSF...9008	2005	1200	321	1040	M / F	385/55 R19.5 <sup>5)</sup>
	2045	1300	361	1140		435/50 R19.5
KHZF...10008 <sup>6)</sup>	1830	980	239	820	M / (F) <sup>4)</sup>	265/70 R19.5
	1880	980	289	820		

<sup>3)</sup> M = for diaphragm cylinder / F = for spring brake cylinder  
<sup>4)</sup> Use F-booster bracket with spring brake cylinder.  
<sup>5)</sup> The load rating of the tyre entered in the drawing is unrelated to the axle load capacity. It is dependent on the information from the tyre manufacturer.  
<sup>6)</sup> Only suitable for semi-trailers / Centre axle drawbar trailer

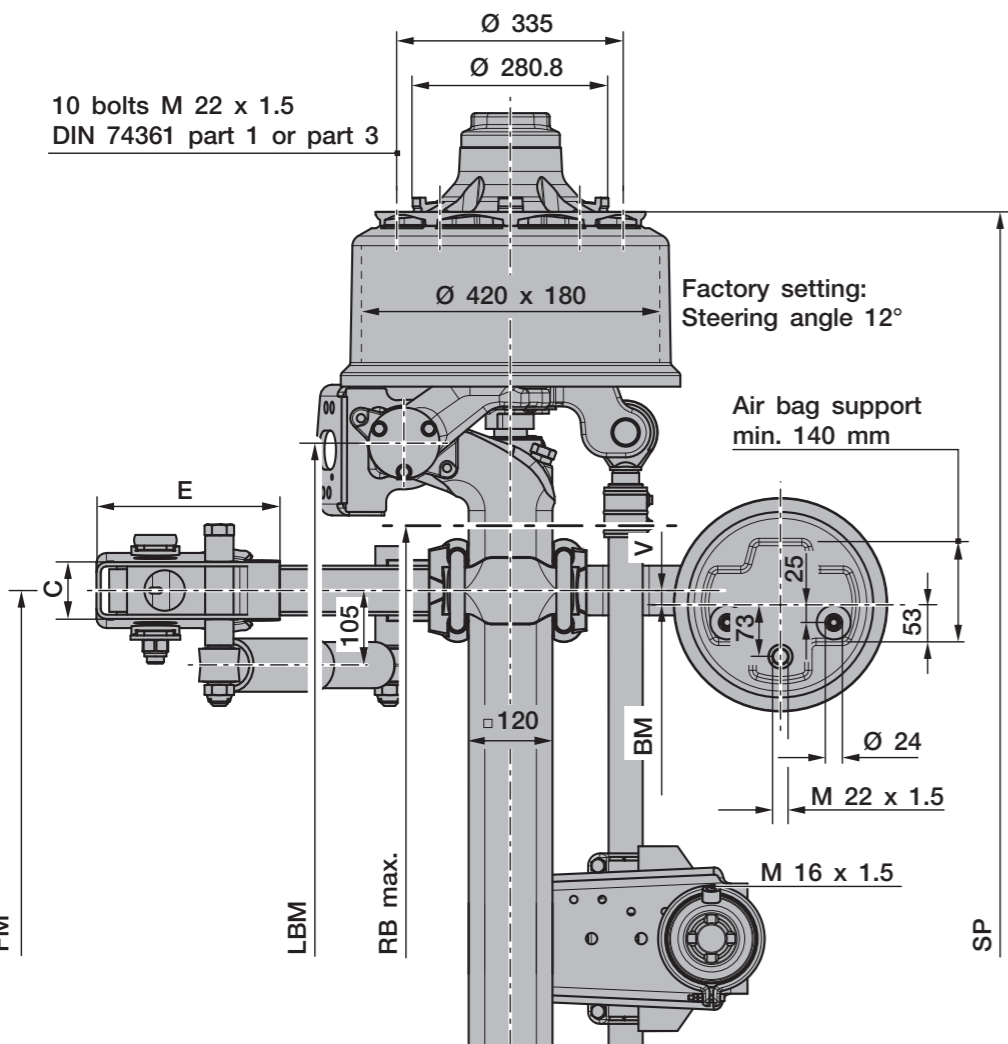
- > Max. inclination angle of the semitrailer under full load and lowest adjustable ride height ±1°
- > With trailing arm L1=690 / L2=310, bag pressures acc. to TE-1188.0 sheet 19
- > The hanger brackets, air bag supports and the frame must be reinforced so that the forces applied can be absorbed. See the current BPW installation instructions.

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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	
2 <sup>3)</sup>	ALULL	215 - 255	245	145	130	190	30K	...22.88.02	268	80	258	83	90	35	---
3 <sup>3)</sup>	ALULL	245 - 290	275	175	160	220	30	...22.88.02	268	80	258	83	90	35	---
4	ALULL	270 - 300	300	200	185	220	30	...22.88.02	268	80	258	83	90	35	40

<sup>1)</sup> Lifting heights acc. to TD-1242.0  
<sup>2)</sup> The packer is not included in supplied package.  
<sup>3)</sup> Note the maximum frame RBmax.



Axle type	Track SP	Spring centre FM	Steering pivot centre LBM	RB max.	Air bag centre BM		Brake cylinder <sup>4)</sup>	Tyres recommended
					V=20	V=60		
HSFH...LL 9010	2040	980	1395	1150	940	860	M	385/65 R22.5 385/55 R22.5
	2095	1080	1450	1205	1040	960		
	2140	1080	1495	1250	1040	960		

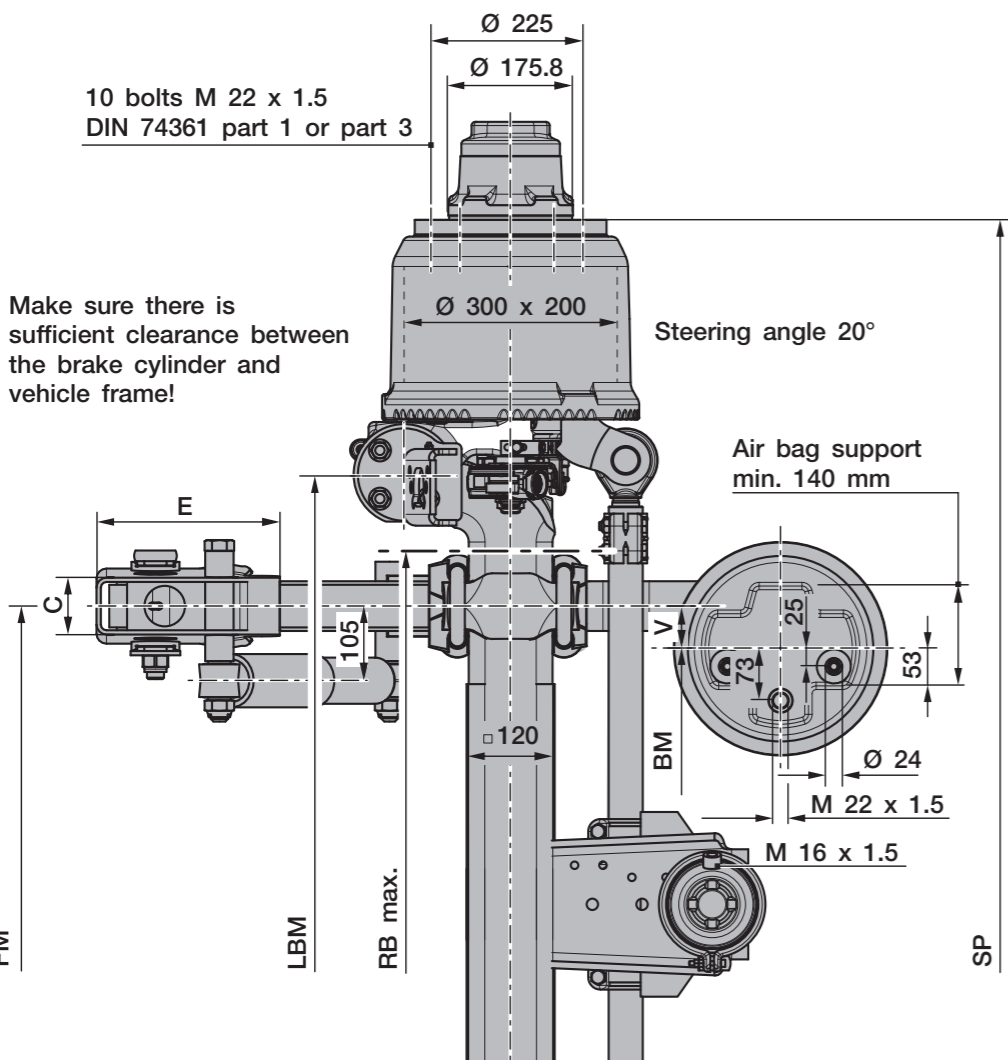
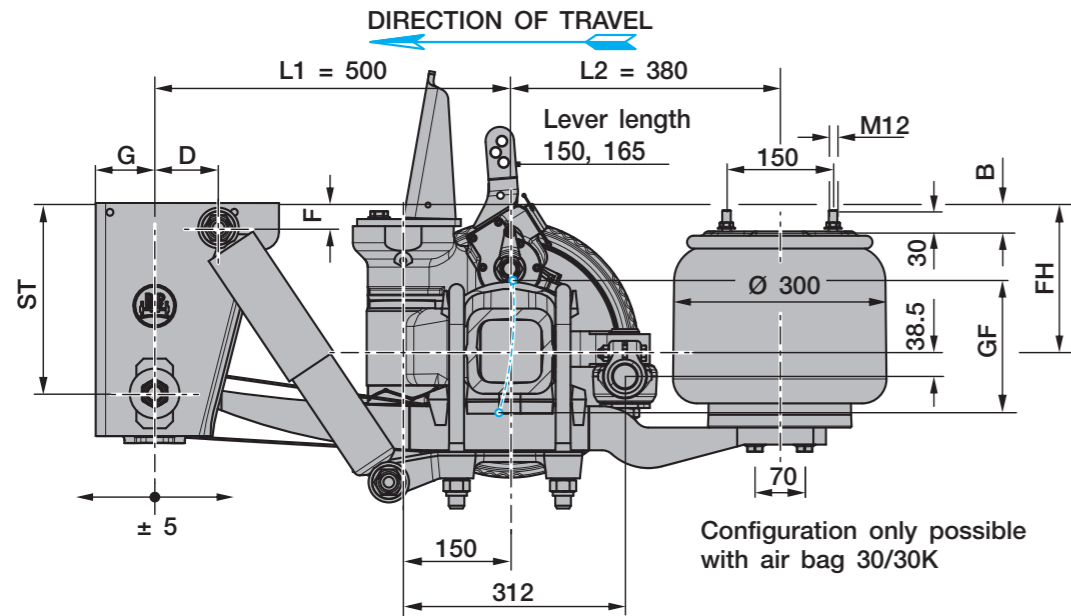
<sup>4)</sup> M = Membranzyylinder

- > Max. inclination angle of the semitrailer under full load and lowest adjustable ride height ±1°
- > With trailing arm L1=500 / L2=380, bag pressures acc. to TE-1188.0 sheet 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 / 38,5	05.872.00.51.0	04.00.073019

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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
		for axle units	min. FH with axle raised	empty without air	loaded without air				ST	C	E	G	D	F	
2	ALULL	215 - 255	245	145	130	190	30K	...22.88.02	268	80	258	83	90	35	---
3	ALULL	245 - 290	275	175	160	220	30	...22.88.02	268	80	258	83	90	35	---
4	ALULL	270 - 300	300	200	185	220	30	...22.88.02	268	80	258	83	90	35	40

<sup>1)</sup> Lifting heights acc. to TD-1242.0

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

Axle type	Track SP	Spring centre FM	Steering pivot centre LBM	RB max. <sup>3)</sup>	Air bag centre BM V=60	Brake cylinder <sup>4)</sup>	Tyres recommended
NHZF...LL 9010	1945	840	1210	920	720	M / F	235/75 R17,5
	1985	840	1250	960	720		245/70 R17,5

<sup>3)</sup> bei Membranzylinder Typ 24

<sup>4)</sup> M = for diaphragm cylinder / F = for spring brake cylinder

- > Max. inclination angle of the semitrailer under full load and lowest adjustable ride height ±1°
- > With trailing arm L1=500 / L2=380, bag pressures acc. to TE-1188.0 sheet 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.

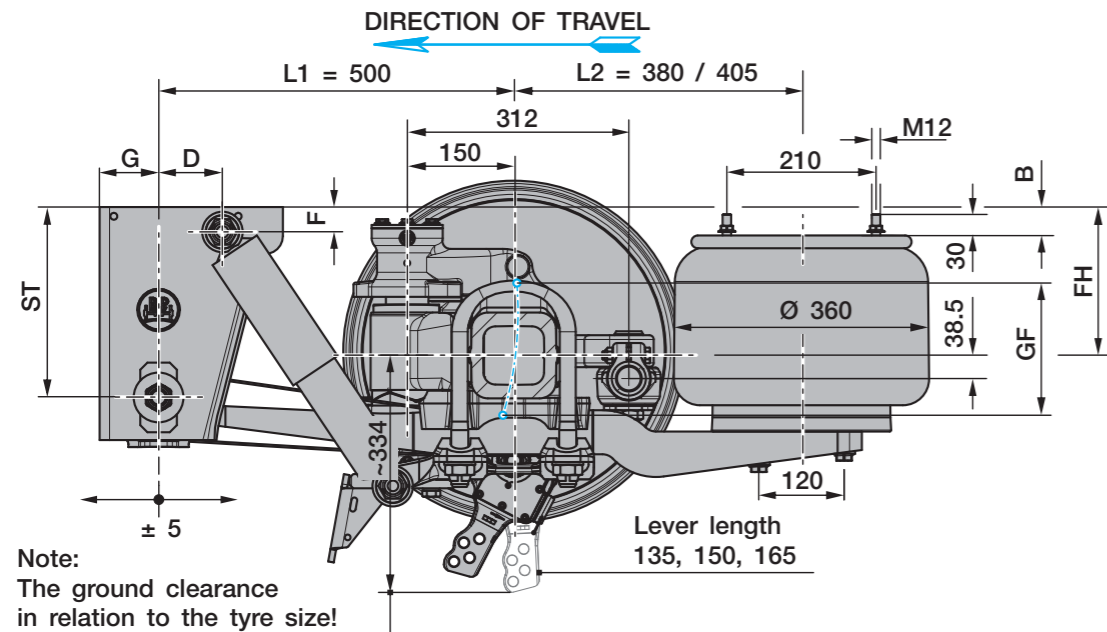
With an axle load ratio - rigid axle to steering axle - of 1:1, in suspension units with a lifting axle and when using central lubrication systems, the steering axle must be equipped with a steering damper.

Trailing arm		Steering tie rod position	Steering damper parts kit	Drawing
L1	L2			
500	380	312 / 38,5	05.872.00.51.0	04.00.073019

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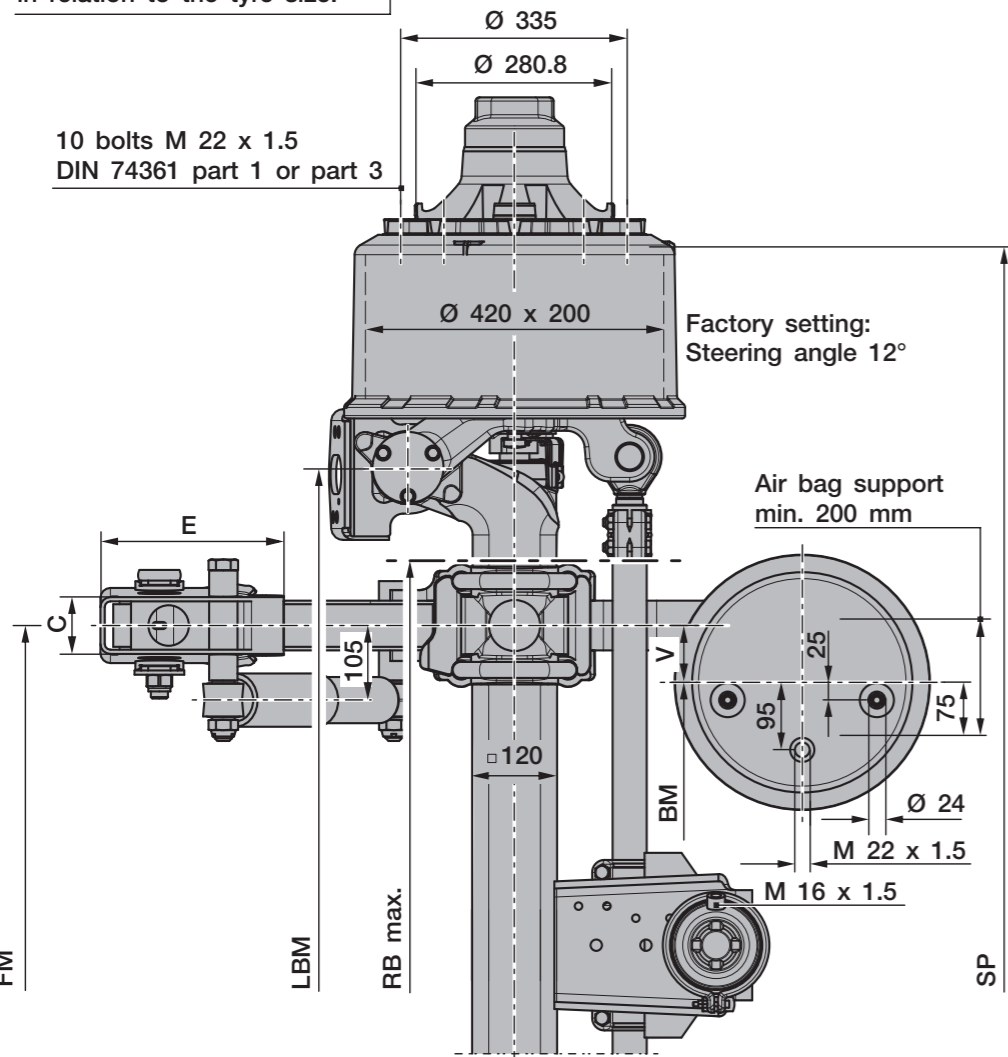
Subject to change without notice.





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
		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	215 - 255	245	145	130	190	36K	...22.88.02	268	80	258	83	90	35	---
3 <sup>3)</sup>	ALULL	245 - 290	275	175	160	220	36	...22.88.02	268	80	258	83	90	35	---
4	ALULL	270 - 300	300	200	185	220	36	...22.88.02	268	80	258	83	90	35	40

<sup>1)</sup> Lifting heights acc. to TD-1242.0  
<sup>2)</sup> The packer is not included in supplied package.  
<sup>3)</sup> Note the maximum frame RBmax.



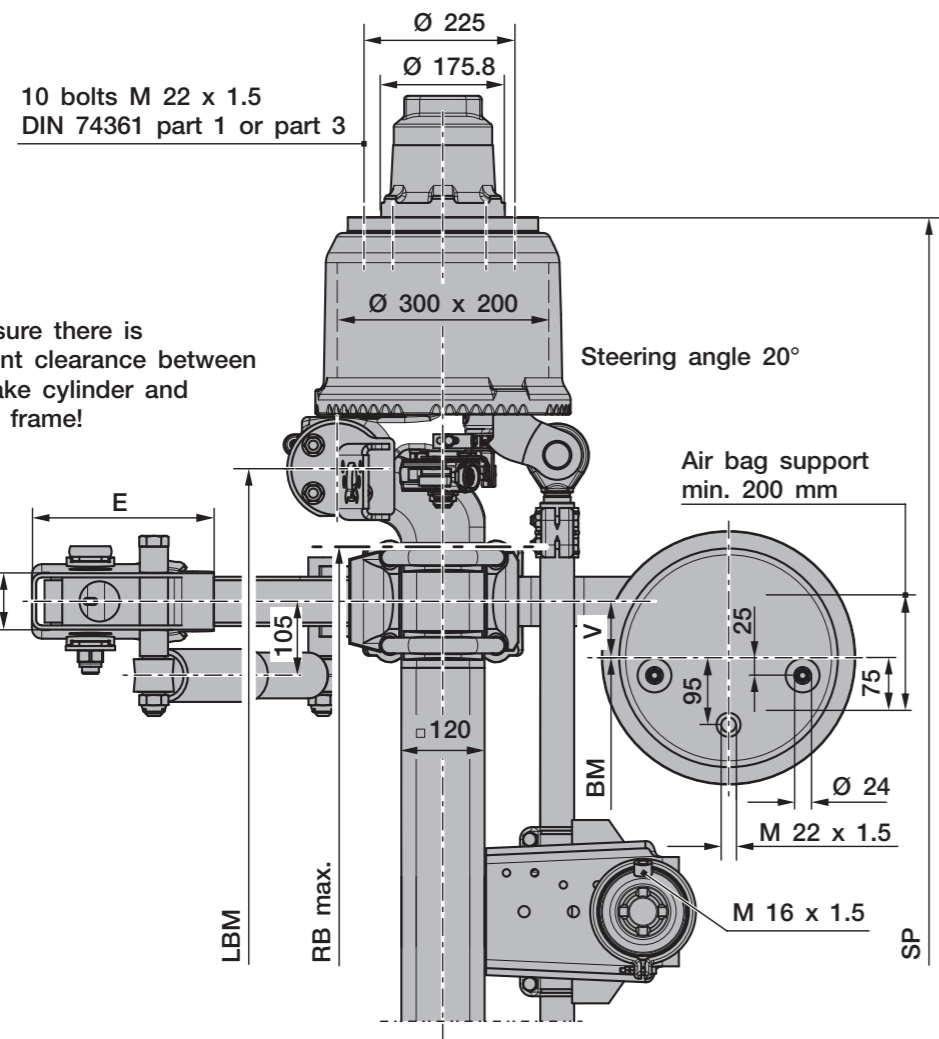
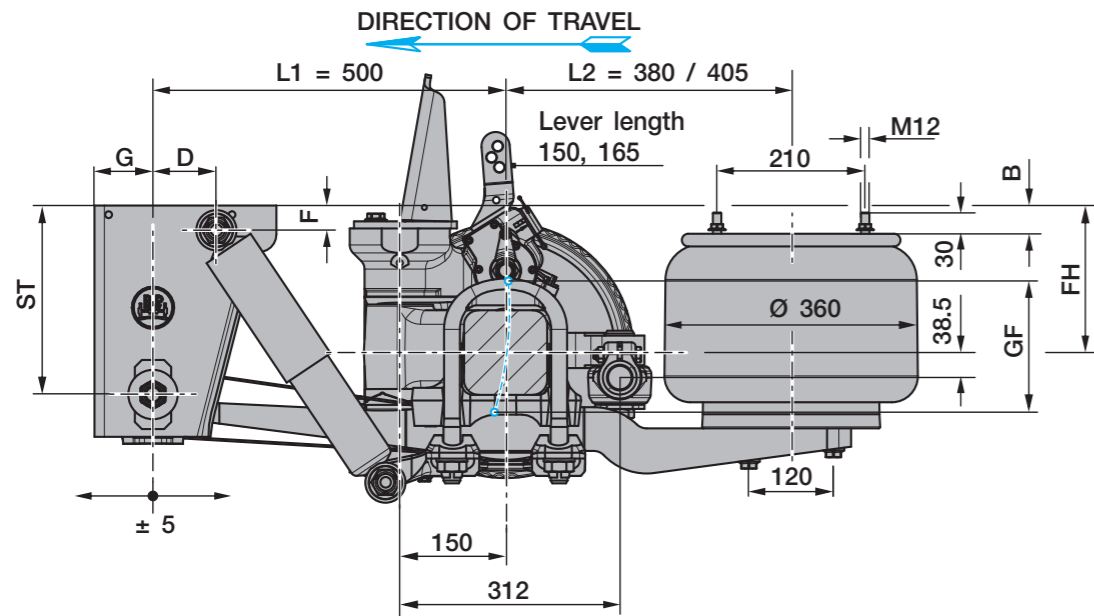
Axle type	Track SP	Spring centre FM	Steering pivot centre LBM	RB max.	Air bag centre BM V=80	Brake cylinder <sup>4)</sup>	Tyres recommended
HSFH...LL 10110	2040	980	1345	1100	820	M / F	425/65 R22.5 <sup>5)</sup> 445/65 R22.5 <sup>5)</sup>
	2090	1080	1395	1150	920		
MSFH...LL 11810	2045	980	1350	1105	820	M / F	425/65 R22.5 <sup>5)</sup> 445/65 R22.5 <sup>5)</sup>
	2095	1030	1400	1155	870		

<sup>4)</sup> M = for diaphragm cylinder / F = for spring brake cylinder  
<sup>5)</sup> The load rating of the tyre entered in the drawing is unrelated to the axle load capacity. It is dependent on the information from the tyre manufacturer.

- > Max. inclination angle of the semitrailer under full load and lowest adjustable ride height ±1°
- > With trailing arm L1=500 / L2=380, bag pressures acc. to TE-1188.0 sheet 11  
With trailing arm L1=500 / L2=405, bag pressures acc. to TE-1188.0 sheet 31
- > The hanger brackets, air bag supports and the frame must be reinforced so that the forces applied can be absorbed. See the current BPW installation instructions.

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 / 38,5	05.872.00.51.0	04.00.073019
	405			



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	ALULL	215 - 255	245	145	130	190	36K	...22.88.02	268	80	258	83	90	35	---
3	ALULL	245 - 290	275	175	160	220	36	...22.88.02	268	80	258	83	90	35	---
4	ALULL	270 - 300	300	200	185	220	36	...22.88.02	268	80	258	83	90	35	40

<sup>1)</sup> Lifting heights acc. to TD-1242.0

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

Axle type	Track SP	Spring centre FM	Steering pivot centre LBM	RB max. <sup>3)</sup>	Air bag centre BM V=80	Brake cylinder <sup>4)</sup>	Tyres recommended
NMZF...LL 12010	1945	840	1210	920	680	M / F	235/75 R17,5 <sup>5)</sup>
	1990	840	1255	965	680		245/70 R17,5 <sup>5)</sup>

<sup>3)</sup> bei Membranzyylinder Typ 24

<sup>4)</sup> M = for diaphragm cylinder / F = for spring brake cylinder

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

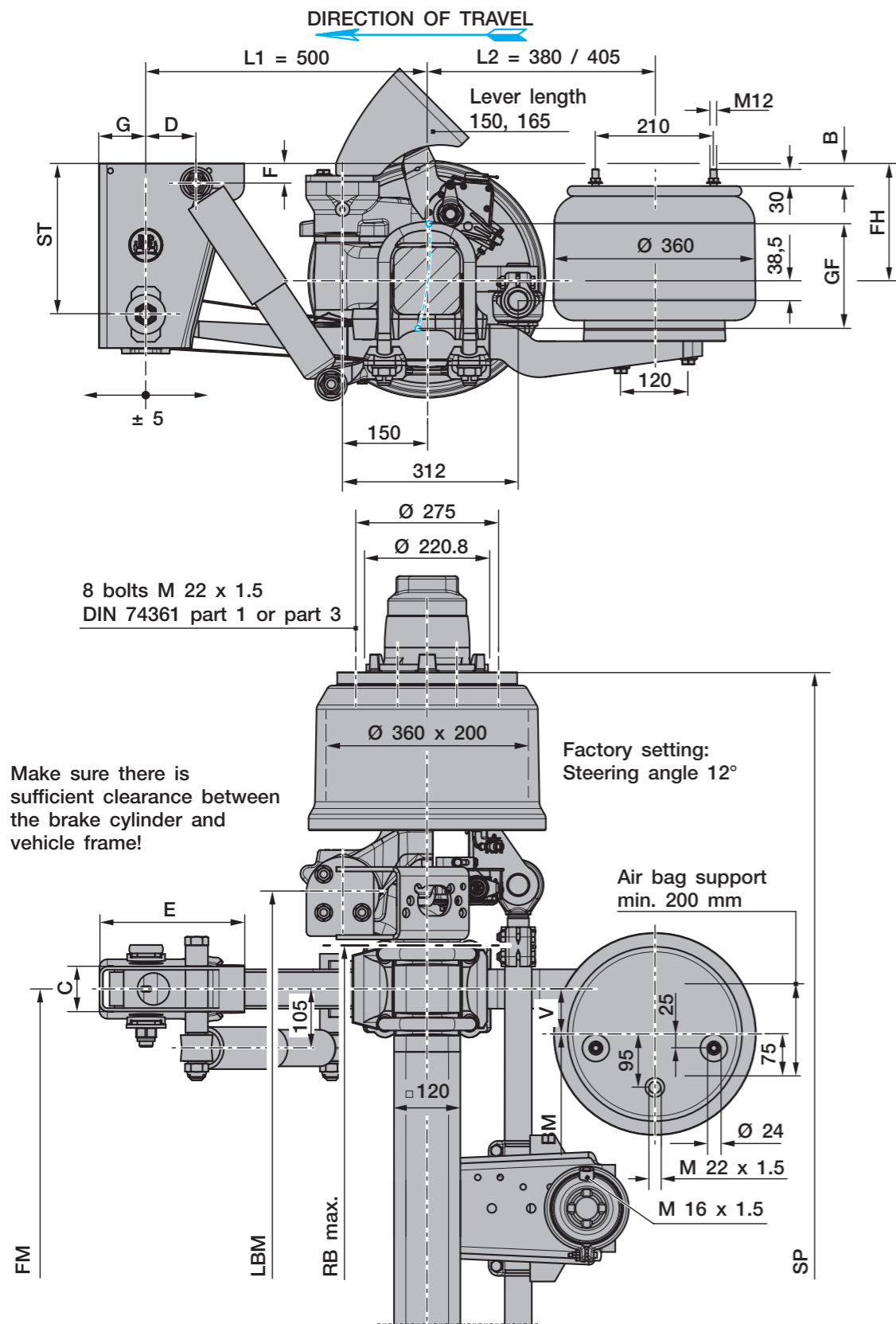
- > Max. inclination angle of the semitrailer under full load and lowest adjustable ride height ±1°
- > With trailing arm L1=500 / L2=380, bag pressures acc. to TE-1188.0 sheet 11  
With trailing arm L1=500 / L2=405, bag pressures acc. to TE-1188.0 sheet 31
- > The hanger brackets, air bag supports and the frame must be reinforced so that the forces applied can be absorbed. See the current BPW installation instructions.

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 / 38,5	05.872.00.51.0	04.00.073019
	405			

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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	
2	ALULL	215 - 255	245	145	130	190	36K	...22.88.02	268	80	258	83	90	35	---
3	ALULL	245 - 290	275	175	160	220	36	...22.88.02	268	80	258	83	90	35	---
4	ALULL	270 - 300	300	200	185	220	36	...22.88.02	268	80	258	83	90	35	40

<sup>1)</sup> Lifting heights acc. to TD-1242.0  
<sup>2)</sup> The packer is not included in supplied package.

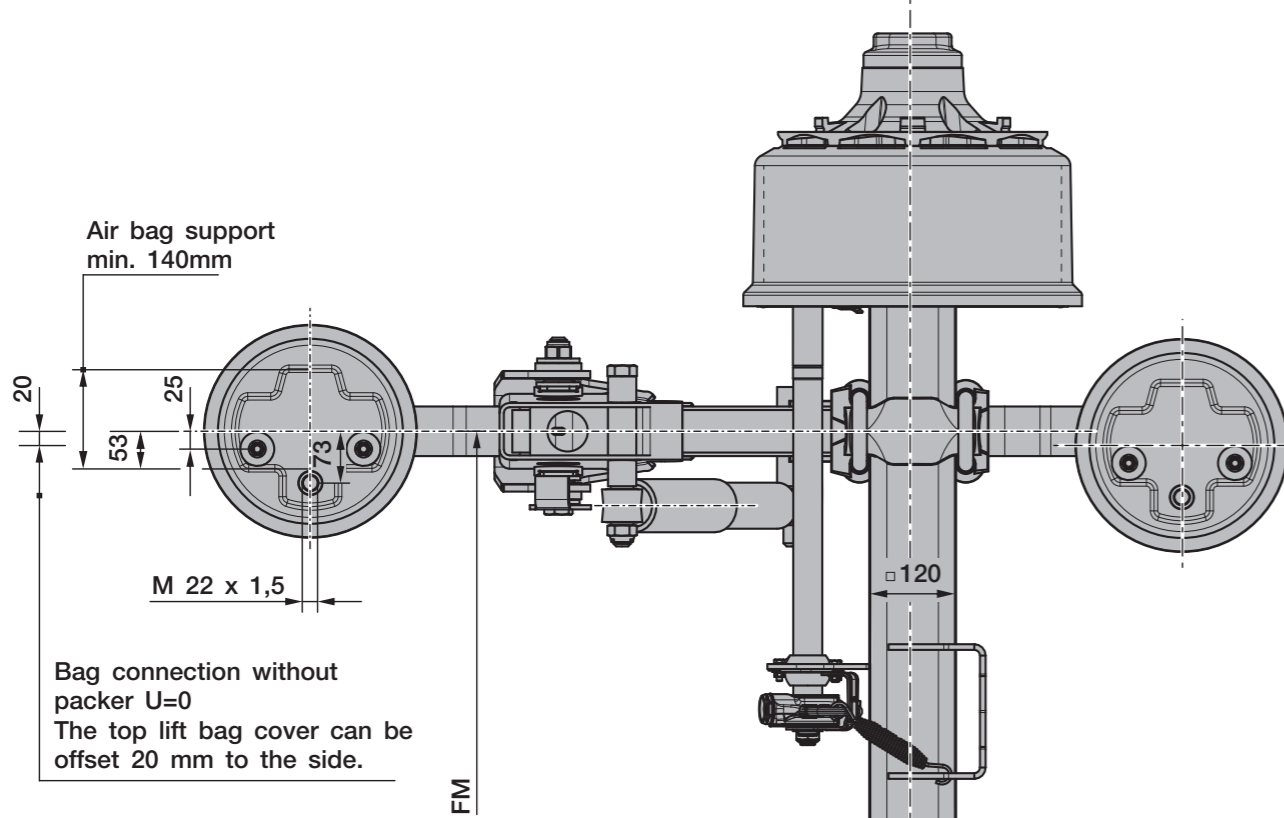
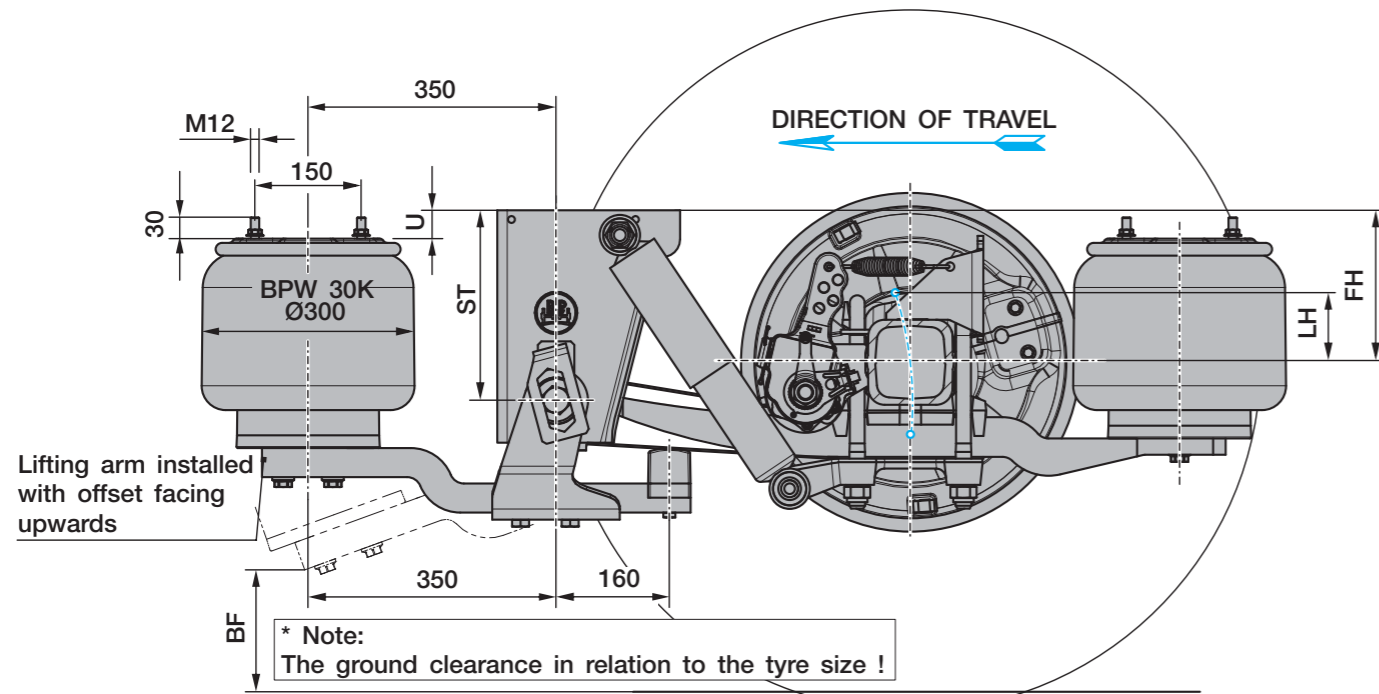
Axle type	Track SP	Spring centre FM	Steering pivot centre LBM	RB max. <sup>3)</sup>	Air bag centre BM V=80	Brake cylinder <sup>4)</sup>	Tyres recommended
KMZF...LL 12008	1925	780	1120	775	620	M	265/70 R19.5 <sup>5)</sup>
	1875	730	1070 <sup>6)</sup>	725	570		285/70 R19.5

<sup>3)</sup> bei Membranzyylinder Typ 24  
<sup>4)</sup> M = Membranzyylinder  
<sup>5)</sup> The load rating of the tyre entered in the drawing is unrelated to the axle load capacity. It is dependent on the information from the tyre manufacturer.

- > Max. inclination angle of the semitrailer under full load and lowest adjustable ride height ±1°
- > With trailing arm L1=500 / L2=380, bag pressures acc. to TE-1188.0 sheet 11  
With trailing arm L1=500 / L2=405, bag pressures acc. to TE-1188.0 sheet 31
- > The hanger brackets, air bag supports and the frame must be reinforced so that the forces applied can be absorbed. See the current BPW installation instructions.

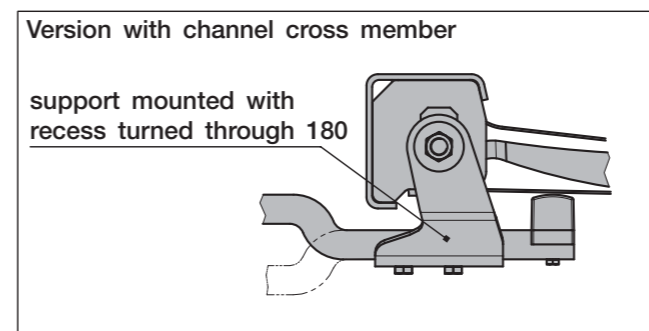
With an axle load ratio - rigid axle to steering axle - of 1:1, in suspension units with a lifting axle and when using central lubrication systems, the steering axle must be equipped with a steering damper.

Trailing arm		Steering pivot centre LBM	Steering tie rod position	Steering damper parts kit	Drawing
L1	L2				
500	380	≥ 1100	312 / 38,5	05.872.00.51.0	04.00.073019
	405				
500	380	< 1100	312 / 38,5	05.872.00.52.0 <sup>6)</sup>	04.00.092256
	405				



Suspensions to drawing	adjustable ride height FH		min. lifting stroke LH	Hanger bracket height ST	Ground clearance BF 1) <sup>1)</sup>	Packer U	BPW no. 05.828...	
	for axle units	min. FH with axle raised					Hanger bracket <sup>7)</sup>	Channel cross member
Sheet 15, 15a, 15b Sheet 16, 16a, 16b Sheet 16c, 16d, 16e	185 - 215 <sup>3)</sup>	215	100	184	269	0	...31.84.0	...31.85.0
	215 - 255 <sup>4)</sup>	245	100	268	275	0 <sup>2)</sup>		
	245 - 290 <sup>4)</sup>	275	100	268	325	0		
Sheet 16f	270 - 300 <sup>4)</sup>	300	100	268	350	0	---	---
	195 - 280 <sup>6)</sup>	225		184				
Sheet 16g + 16h	225 - 350 <sup>3) 5)</sup>	255	100	268	143	0 <sup>2)</sup>	...31.84.0	...31.85.0
	240 - 345 <sup>3)</sup>	270	100	268	213	0		

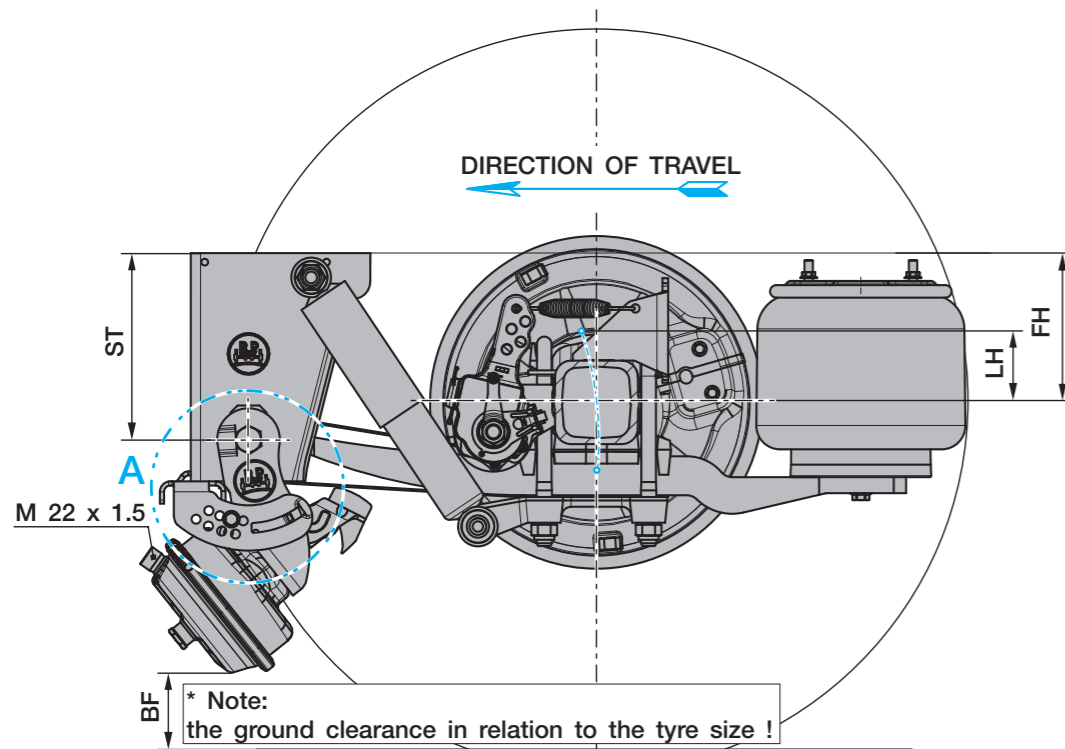
- <sup>1)</sup> Ground clearance in relation to the set minimum ride height with the axle raised.  
\* Reifen: 385/65 R 22.5 (r<sub>stat</sub> = 496)  
In the case of smaller tyres, it is necessary to check whether the doublesided axle lift can be used, according to the application.
- <sup>2)</sup> A 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> one-sided axle lift only on request
- <sup>7)</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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Subject to change without notice.





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 15, 15a, 15b	185 - 215 <sup>2)</sup>	215	100	184	200	190	4	...31.81.0	...32.10.0	...31.82.0
Sheet 16, 16a, 16b	215 - 255 <sup>3)</sup>	245	100	268	143	133	7			
Sheet 16c, 16d, 16e	245 - 290 <sup>3)</sup>	275	100	268	176	166	4			
	270 - 300 <sup>3)</sup>	300	100	268	205	195	8			

<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)

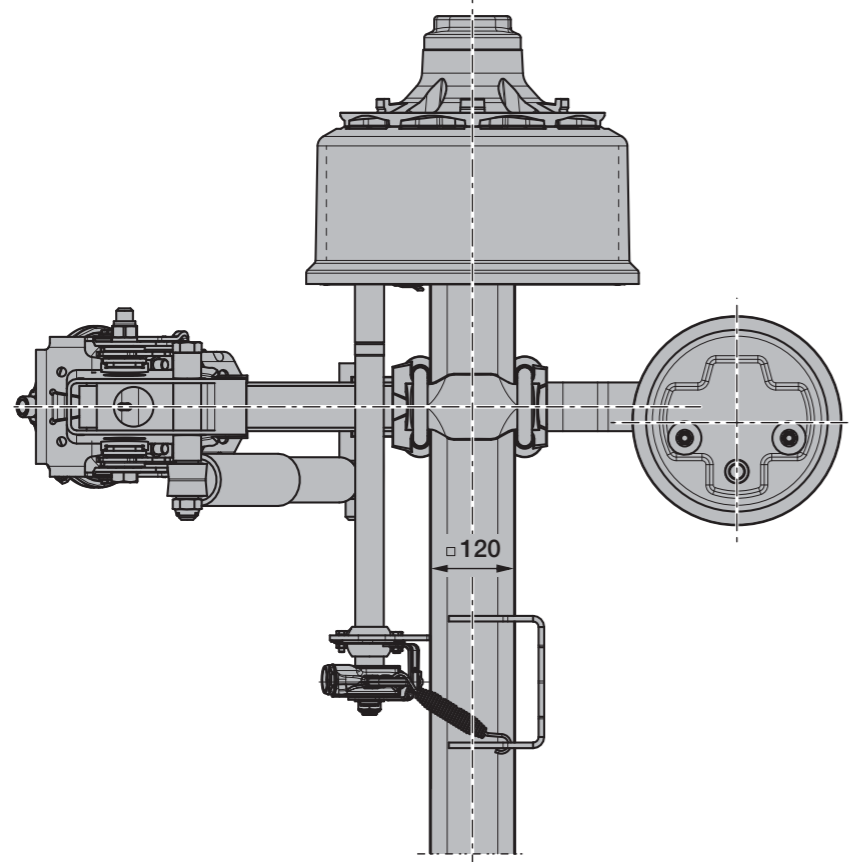
In the case of smaller tyres, it is necessary to check whether the doublesided axle lift can be used, according to the application.

<sup>2)</sup> Version A for 9t and 10t single tyre fitment, version B for 10t twin tyre fitment, 11,8t and 12t

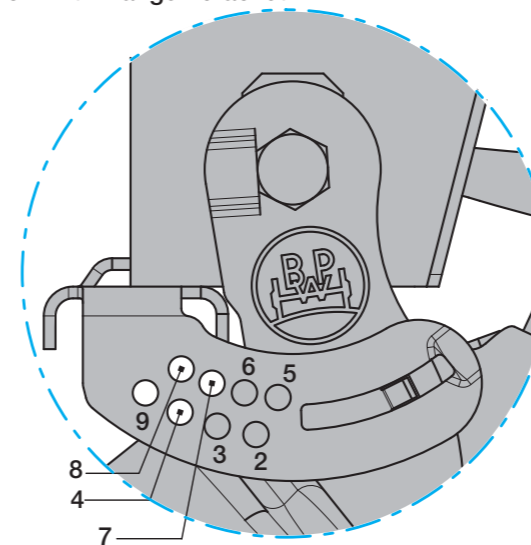
<sup>3)</sup> Due the lower ground clearance, it is necessary to check whether the doublesided axle lift can be used, according to the application.

<sup>4)</sup> Lifting device for bolt-on bracket on demand.

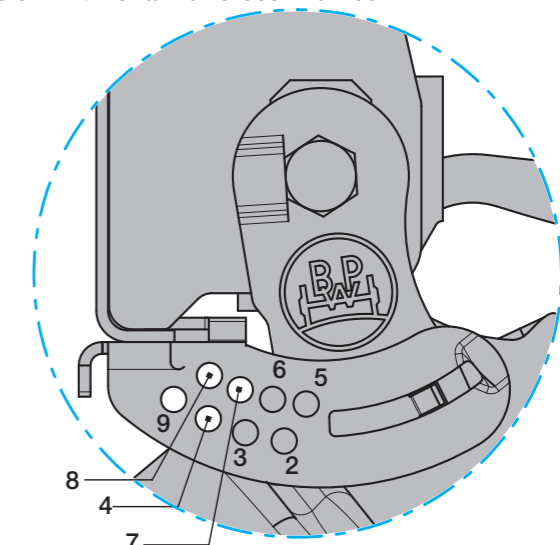
\* Note:  
the ground clearance in relation to the tyre size !



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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