

### Brake Chambers (Disc) - with Clamp Ring

#### Function

This range of **Brake Chambers** is used on axles fitted with air disc brakes and provides the service brake function. The chambers have a mounting seal integrated in the non-pressure housing which prevents the entry of dirt or water into the caliper.

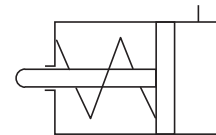
See PD-400-000, Document No. Y115383 for the full range of Brake Chambers for trailers.



#### Technical Features

Maximum operating pressure:	10 bar
Operating temperature range:	-40 °C to +80 °C
Push rod stroke:	57 mm
Air ports:	M16x1.5
Sealing of non-pressure housing:	Rubber Boot
Pivoting angle of piston rod:	4° in all directions
Weight:	See table

#### Standard Symbol as DIN ISO 1219



#### Range Overview

Part No.	Type No.	Type	TÜV Inspection Report	Weight approx. [kg]
I131782	BS3251	14	353-432-97FBTN	3,1
I114535	BS3300	16	BZ.102.0	3,0
I137140	BS3315		BZ.103.0	3,2
I138466F	BS3326		353-433-97FBTN	3,1
I115229	BS3350	18	353-434-97FBTN	
I138924F	BS3361	16	BZ.103.0	3,2
I131098	BS3404	20	356-308-94FBTN	3,3
I138528F	BS3436		356-308-94FBTN	3,4
I131099	BS3453	22	356-309-94FBTN	3,4
I138529F	BS3462		356-309-94FBTN	
I130618	BS3509	24	356-310-94FBTN	3,6
I138530F	BS3547		356-310-94FBTN	3,6
I131100	BS3551	27	356-311-94FBTN	3,6

Actuator mounting kit available comprising 2 off hexagon lock nuts: Part Number I136860\*

\* must be ordered separately !

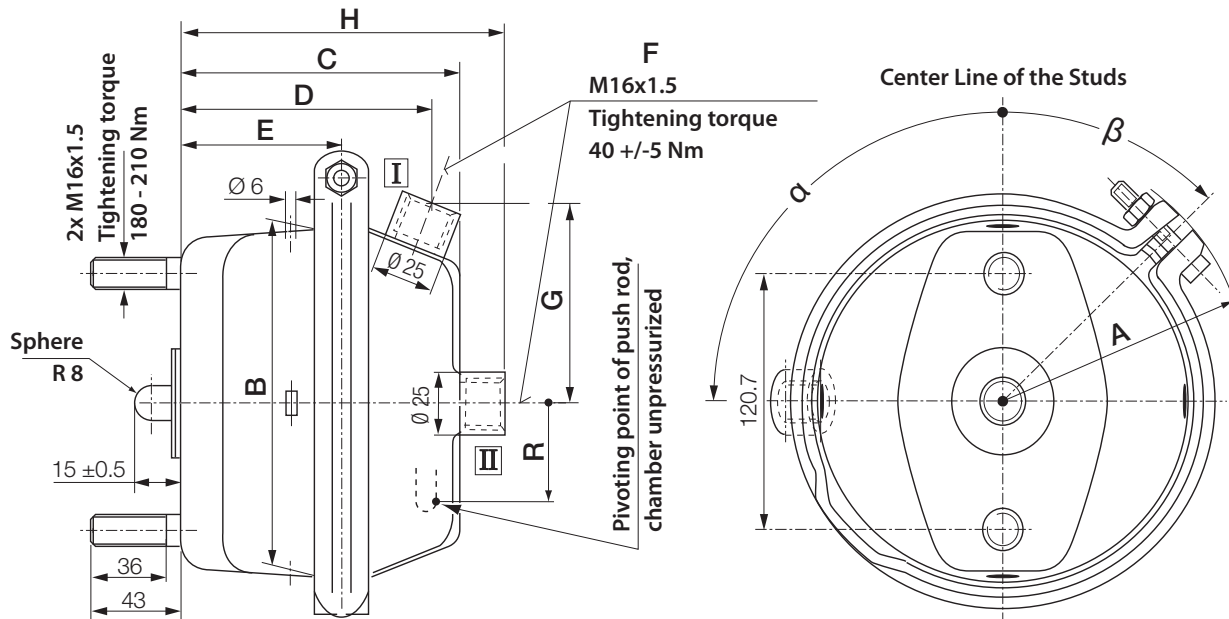
#### Note:

This range will be superseded by the "Optimised Brake Chamber" (OBC) Generation (see PD-405-100, Document No. Y103245). TÜV-Comparison Report No. TÜV-361-0046-05-FBKV comparing this generation with the OBC generation is available.

Other versions are available.  
The part number will carry a suffix.

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#### Dimensions



Part No.	Type No.	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [Port]	G [mm]	H [mm]	R [mm]	$\alpha$ [°]	$\beta$ [°]					
II31782	BS3251	101	144	104	97,5	66	I	76	—	42	0	45					
II14535	BS3300	93,5			83			—	47								
II37140	BS3315	—			—		122,5	45	—	90							
II38466F	BS3326	—					180										
II15229	BS3350	93,5			I		83	—	50	0			45				
II38924F	BS3361	—					II	—	122,5	45			—	180			
II31098	BS3404	108	145	104	98	64		I	81	—	52	0	45				
II38528F	BS3436	111			—	66	II		—	122,5				—	180		
II31099	BS3453	108			94,5	64		I	85,9	—				0	45		
II38529F	BS3462	111			—	II	—		122,5	—				180			
II30618	BS3509	112			155		113	97,5	66	I				91	—	57,5	0
II38530F	BS3547	117				—		II	—					122,5	—		
II31100	BS3551	123	185,5	115	97,5	67	I		98	—	58	0	45				

**Note:**

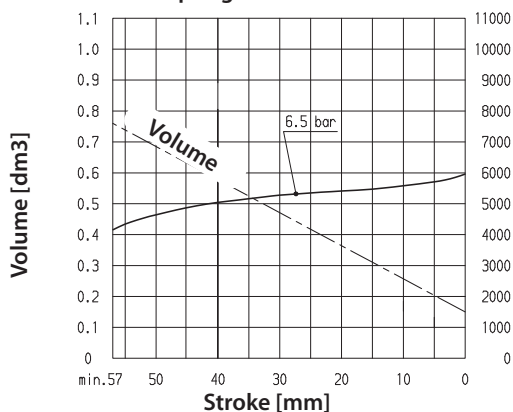
This range will be superseded by the new OBC Generation (see PD-405-100, Document No. Y103245)

### Brake Chambers (Disc) - with Clamp Ring

#### Performance Charts

**BS3251**

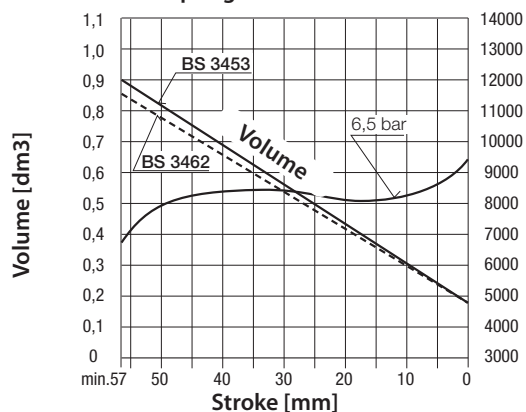
Return spring force at 0mm: F= 220N



Service brake output [N]

**BS3453, BS3462**

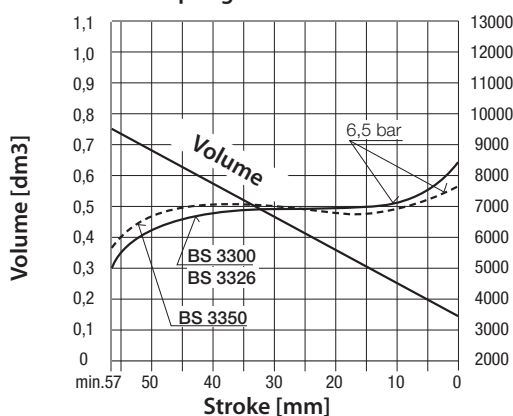
Return spring force at 0mm: F= 220N



Service brake output [N]

**BS3300, BS3326, BS3350**

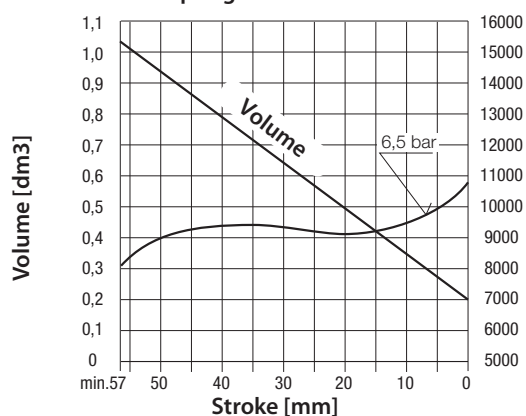
Return spring force at 0mm: F= 220N



Service brake output [N]

**BS3509, BS3547**

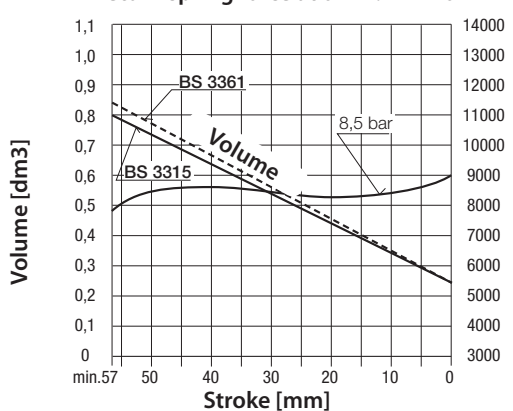
Return spring force at 0mm: F= 220N



Service brake output [N]

**BS3315, BS3361**

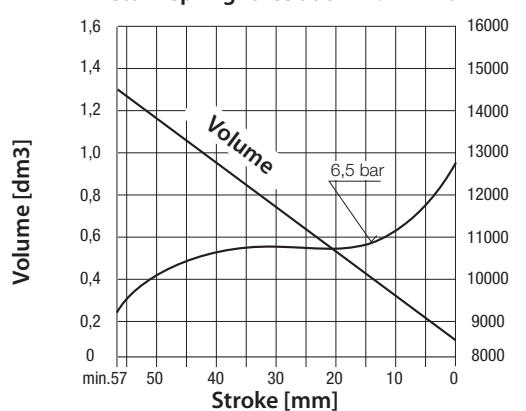
Return spring force at 0mm: F= 220N



Service brake output [N]

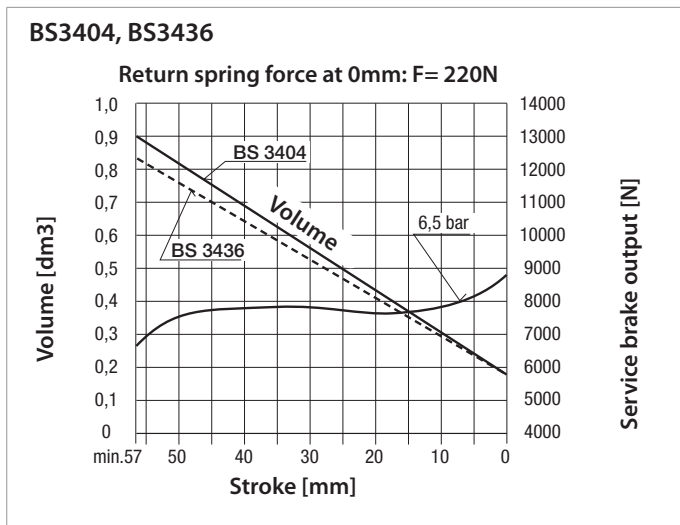
**BS3551**

Return spring force at 0mm: F= 220N



Service brake output [N]

#### Performance Charts



#### Installation and Mounting instructions

Detailed information concerning the mounting of disc brake actuators can be found in the Service Manual for Air Disc Brakes Y006471.

*Special Note:*

If the actuator is supplied with the drain holes plugged, remove lowest plug (as viewed when the actuator is installed).

#### Revision Details

Rev. 004	April 2019	New Layout



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