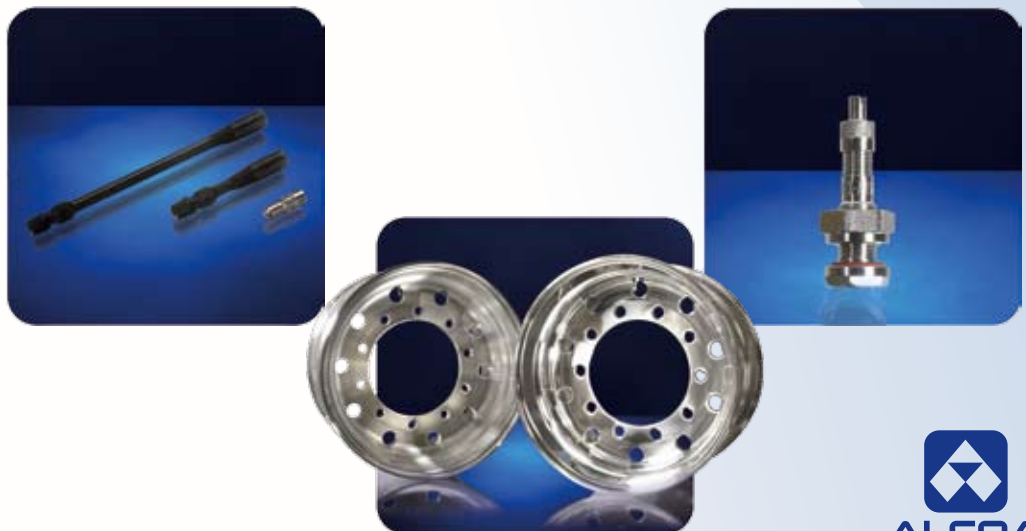






ALCOA

VALVE APPLICATION CHART

MANUAL













2005




		WHEEL PART NR	VALVE PART NR				
17.5"	x 6.00"	66320X 66340X	B70MS-60N B70MS-45N				
	x 6.75"	66347X 66082X	B70MS-45N B70MS-45N				
19.5"	x 6.75"	76347X 76348X 76448X	B70MS-45N B70MS-45N B70MS-45N				
		x 7.50"	77340X 77345X 77346X 77347X		B70MS-45N B70MS-27N B70MS-27N B70MS-27N		
			x 8.25"		78340X 78341X 78342X 78345X 78346X 78347X	B70MS-45N BTR543E B70MS-45N B70MS-27N B70MS-27N B70MS-27N	
	x 14.00"				7434XX	BTR542	
	22.5"	x 7.50"			87352X	BF8437/BH-8437	replacement valve for use with disc brakes, increases clearance from 466 to 489 mm
					87352X	B70MS-60N	for use with drumbrakes
87357X			BF8437/BH-8437	use extension valve B09070 for Volvo			
87450X			B70MS-27N				
87451X			B70MS-07N				
87452X			B70MS-07N				
x 8.25"		87453X	B70MS-07N				
		87455X	B70MS-27N				
x 8.25"		88354X	B70MS-60N	for use with drum brakes			
		88354X	BF8437/BH-8437	replacement valve for use with disc brakes, increases clearance from 466 to 489 mm			
		88355X	B70MS-45N				
		88356X	B70MS-45N				
	8845XX	B70MS-27N					
	8836XX Australia	BTR544C					
	8836XX Australia	BTR544C					
	88559X Japan	B70MS-27N					
	8855XX	B70MS-27N					
	88650X Japan	B70MS-27N					
x 9.00"	88651X	B70MS-07N					
	88652X	B70MS-07N					
	88653X	B70MS-07N					
	x 9.00"	89352X	B70MS-60N	for use with drum brakes			
		89352X	BF8437/BH-8437	replacement valve for use with disc brakes, increases clearance from 466 to 489 mm			
	x 11.75"	89353X	B70MS-45N				
		89355X	B70MS-45N				
		8945XX	B70MS-27N				
		8955XX	B70MS-27N				
		89651X	B70MS-07N				
89652X		B70MS-07N					
89653X		B70MS-07N					
x 11.75"		81352X	BTR542				
	81353X	BTR542					
	81354X	BTR542					
	81355X	BTR542					
	81356X	BTR542					
	81455X	BTR542	use extension valve B85 for wheels manufactured > 06/2000				
	8145XX	BTR542	use extension valve B85 for wheels manufactured > 06/2000				
	8155XX	BTR542					
	8165XX	BTR542					
	8175XX	BTR542					
x 13.00"	83352X	BTR543E	can be replaced by BTR542				
	83353X	BTR542					
x 14.00"	84151X	BTR542					
x 17.00"	8405XX	B70MS-07N	22.5x17.00 (inset -67mm)				
	8425XX	No valve included	22.5x17.00 (inset -50mm)				
24.5"	x 8.25"	98357X	B70MS-45N	Volvo Mexico			

GENERAL REMARKS

- Wheels with valves B70MS-45N, B70MS-60N, BTR543C, D & E, BTR544C & D do not have a "hidden valve design"
- For application with disc brakes wheels with a hidden valve design or a clearance of 5 mm are recommended
- Use extension valve B09150 for all valves when dual mounted
- For wheels with valves B70MS-45N (BTR543C), BTR544C, B70MS-60N (BTR543D), BTR544D, BF8437 / BH-8437, the use of extension valve B09070 is optional when single mounted

VALVE PART NR		WHEEL PART NR
BTR542 (straight)		7434XX 81354X, 81355X, 81356X, 8145XX, 8155XX, 8165XX, 8175XX 83353X 84151X (22.5 x 14.00) - Use extension valve B85 for 81356X & 81455X > 06 2000
B70MS-07N (7°)		87451X, 87452X, 87453X 88651X, 88652X, 88653X 89651X, 89652X, 89653X 8405XX (22.5 x 17.00 inset -67mm)
B70MS-27N (27°) replaces B60MS-27N & BV3-20-5		77345X, 77346X, 77347X 78345X, 78346X, 78347X 87450X, 87455X 8845XX, 8855XX incl. 88559X Japan, 88650X Japan 8945XX, 8955XX
B70MS-45N (45°) replaces BTR543C		66340X, 66347X 76347X, 76348X, 76448X 77340X 78340X, 78342X 88355X, 88356X 89353X, 89355X 98357X Volvo Mexico - Wheels in this section do not have a "hidden valve design" - For application with disc brakes a clearance of 5 mm is recommended - Extension valve B09070 is optional when single mounted
BTR544C (45°)		8836XX Australia 8836XX Australia - Wheels in this section do not have a "hidden valve design" - For application with disc brakes a clearance of 5 mm is recommended - Extension valve B09070 is optional when single mounted
B70MS-60N (60°) replaces BTR543D		66320X < 10-2001 87352X 88354X 89352X - Wheels in this section do not have a "hidden valve design" - For application with disc brakes a clearance of 5 mm is recommended - Extension valve B09070 is optional when single mounted
BTR544D (60°)		66320X > 09-2001 can be replaced with BTR543D or B70MS-60N - Wheels in this section do not have a "hidden valve design" - For application with disc brakes a clearance of 5 mm is recommended - Extension valve B09070 is optional when single mounted
BF8437 / BH-8437 (60°)		87352X replacement valve for use with disc brakes, increases clearance from 466 to 489 mm 87357X with extension B09070 for Volvo 88354X replacement valve for use with disc brakes, increases clearance from 466 to 489 mm 89352X replacement valve for use with disc brakes, increases clearance from 466 to 489 mm - Wheels in this section do not have a "hidden valve design" - For application with disc brakes a clearance of 5 mm is recommended - Extension valve B09070 is optional when single mounted
BTR543E (75°)		78341X 81352X, 81353X can be replaced with BTR542 83352X can be replaced with BTR542
Extension valve for DUAL mounting		Use extension valve B09150 for all valves when dual mounted

EXTENSION VALVES

PART NR.		DESCRIPTION
B85		20 mm nickel plated valve extension.
B09070		50 mm plastic valve extension incl. dust cap.
B09150		150 mm plastic valve extension incl. dust cap.

IMPROVED VALVES & VALVE HOLE POSITION FOR ALCOA WHEELS

Alcoa Wheel Products Europe have improved the valve hole geometry in truck wheels of the sizes 9.00 x 22.5 and 8.25 x 22.5. The valve seat was increased in thickness from 8 to 14 mm.

The valve angle that used to be 27° has been changed to a 7 degree bend. The part number of this valve is 70MS-07N.

At the same time Alcoa has improved the valve itself in cooperation with Ventrex, the leading European valve manufacturer:

- To have a better sealing on the inside, the o-ring is replaced by a larger t-shape rubber grommet, this also reduces the risk for galvanic corrosion between the valve and the inside valve seat
- The 14 mm hexagonal nut is equipped with an integral plastic washer that also prevents galvanic corrosion on the outside. It also allows torquing the nut without damaging the valve seat

With these changes, the valves are designed to serve a long time. When changing the tyres, the valves need to be checked. Once a valve has been loosened, it can not be used any more and has to be replaced by a new one.

Brass valves for steel wheels no longer fit the Alcoa wheels in question, because their thread length is not long enough to fit the 14mm valve seat. Alcoa has made the new valve available to its complete dealer network in Europe.

For more info please contact your local dealer, distributor or Alcoa Wheel Products Europe.

USE ALGREASE WHEN CHECKING OR REPLACING VALVES

After a period of time and mileage, tyres will be replaced. This is the best occasion to check the valve. It is recommended to replace it; many tyre & wheel specialists have made a routine of this.

Clean the valve seat and valve hole thoroughly after removal of the valve.

Avoid using sharp tools and / or excessive force that could cause scratches or dents in the surface. Uneven or damaged surfaces can lead to leakage. Fine sandpaper, steel wool or a soft wire brush will help you to clean the area without harming the surface.

Apply a layer of ALgrease in the valve hole and the outer and inner side, up to 2 centimetres in diameter around the valve hole.

Before installing the valve, apply some ALgrease on the shaft and base where the rubber ring is located.

To avoid loss of air by improper fitment or corrosion, Alcoa wheels should be fitted with chrome or nickel-plated valves that meet high standards and that are specially designed for Alcoa wheels. Alcoa valves have 14 and 16 mm hex nuts; older US made wheels used 5/8" hex nuts for the valves. **Use original Alcoa valves only.**

Install the valve with care and do not overtorque: the recommended torque is 9 to 16 Nm.

Do not use any other lubricants that are water-based or contain heavy metals. Two types of valves cover almost all wheels. The most common valves used on Alcoa's latest wheels are the B70MS-07N for 8.25 & 9.00 and the BTR542 for all 11.75, 13.00 and 14.00 wheels. For further details see our technical leaflet and our ALgrease manual / user's guide. In case of doubt contact your local dealer, distributor or Alcoa Wheel Products Europe.



For information, please contact:

Alcoa Wheel Products Europe
 Industrieweg 135
 B-3583 Paal
 Belgium
 Tel. +32 11 45 84 60
 Fax +32 11 45 56 30
 info.wheels@alcoa.com
 www.alcoawheels.com



Your distributor / dealer: