Fed. Std. No. 308B August 1, 1977 SUPERSEDING Fed. Std. No. 308A Nay 9, 1972

### FEDERAL STANDARD

### INNER TUBE , PNEUMATIC TIRE

This standard was approved by the Commissioner Federal Suppl y Service, General Services Administration for the use of all Federal agencies.

S1. PURPOSE AND SCOPE. This standard establishes the inner tube and valve combinations and adopts them as standard items for use in pneumatic tires used on ground vehicles in applications, as specified. Its purpose is to achieve greater economy through the reduction of the variety of tube and valve combinations and the identification of applications in which these combinations are used.

S1.1 Tables of standard tube and valve combinations:

Table I. Tubes for passenger car and motorcycle trees.

Table II. Tubes for tires used on trucks, trailers, earth-moving, agricultural and industrial vehicles and on motor scooters.

\$2 . APPLICATION . Purchases of inner tubes from commercial sources under Federal Specification ZZ-I-550, Inner Tube, Pneumatic Tire, of the issue in effect on date of invitation for bids shall be limited to items which conform to the characteristics specified in tables I and II for the application shown .

(Activities outside the Federal Government may obtain copies of Federal Specifications, Standards, and Handbooks as outlined under General Information in the Index of Federal Specifications and Standards at the prices indicated in the Index. The Index, which includes cumulative monthly supplements as issued, is for sale on a subscription basis by the Superintendent of Documents, U. S. Government Printing Off ice, Washington, DC 20402.

( Single copies of this standard and other Federal Standards required by activities outside the Federal Government for bidding purposes are available without charge from Business Service Centers at the General Services Administration Regional Off Ices in Boston, New York, Washington, DC, Atlanta, Chicago, Kansas City, MC, Fort Worth, Denver, San Francisco, Los Angeles, Seattle, WA, Philadelphia, PA, end Houston, TX.

(Federal Government activities may obtain copies of Federal Specifications, Standards, end Handbooks and the Index of Federal Specifications and Standards from established distribution points in their agencies.)

S3. OTHER PUBLICATION. The following documents form a part of this standard to the extent specified herein. Unless a specific issue is identified, the issue in effect on date of invitation for bids or request for proposal shall apply.

The Tire and Rim Association, Inc. Yearbook

(Copies may be obtained from the Tire and Rim Association, Inc. , 3200 W. Market Street, Akron, Ohio 44313. )

S4. STANDARD CHARACTERISTICS AND ITEM IDENTIFICATION. The standard items with their applicable Federal Stock Numbers shall conform to the characteristics as listed in tables I and II.

S5. CHANGES. When a Federal agency considers that this standard does not provide for its essential needs, written request for changing or adding to the standard justification shall be submitted in duplicate to the National Automotive Center, Federal Supply Service, General Services Administration, Washington, DC 20406. This justification shall explain wherein the standard does not provide for essential needs. The General Services Administration will determine the appropriate action to be taken and will notify the agency.

S6. CONFLICT WITH REFERENCED SPECIFICATION. Where the requirements stated in this standard conflict with any requirement in the referenced specification, the requirements of the standard shall apply.

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### S7. notes

S7.1 <u>Code to applications column</u>. The tube and valve combination listed in tables I and II are coded to show the application in which they are normally used. The application codes are identified below:

Identification Code

AA AB AD AF AG AH AJ	Agricultural implements Agricultural and light industrial tractor, steering wheels Recreational, boat, baggage and special type trailers Earthmover Garden tractor Agricultural and light industrial tractor, drive wheels Industrial utility Industrial fork Lift truck
AL AP AQ AR AT AU AW	slow speed industrial Light tručk, trailer and multipurpose passenger vehicle Motor scooter Passenger car Road grader (DC rim) Road grader (FB rim) Heavy Industrial equipment Fork lift truck Mobil crane Loader
Ax	Dozer Mining car Truck-Bus, Trailer Truck-Bus Low platform trailer Straddle truck Mining and logging

### S7.2 Valve practice.

S7.2.1 <u>Valve identification</u>. The effective dimensions of valves and valve spuds in finished tubes, as identified to Tire and Rim Association standard designations, are shown in figures 1 to 12.

S7.2.1.1 <u>Other valves</u>. Rim valves used with tubeless tires; valve stems for use with SP-100 and SP-4000 valve spuds; and repair valves; are covered in Federal Specification 22-V-25.

S7.2.1.2 <u>Special valve characteristics</u>. A comparison of special characteristics for valves used on passenger car, light truck, agricultural and industrial tubes is shown below.

Tr. No.	Valve stem material	Туре	Max. inflation pressure
13 1 * 13CW** 1 15 15CW * 87 4* 87 5* 1 35 1 150 1 150CW 218A 2 20A	Rubber Rubber Rubber Metal Rubber Metal Rubber Rubber Rubber Metal Metal	Air Air-water Air Air-water Air Air Air Air Air Air-water Air-water Air-water	60 p.S. i. 100 p.s. i. 60 p.S. i. 100 p.s. i.

l Hand bendable.  $^{\ast\ast}$  Use TR B-6 Bushing (figure No. 6) in rims with .625 diameter valve hole.

### S7.2.2 Industry standard

S7.2.2.1 <u>Tractor and implement tubes</u>. The industry has adopted standard valves for tractor and implement tubes. These are the TR 218A valves for rear tractor and large implement tubes; the TR 15CW

valves for front tractor and inplement tubes; the TR 13CW for sizes where the valve hole in the rim is small; the TR 135, TR 150, and TR 150CW valves where a bent valve is required in small rim diameters; and the TR 87 (bent), TR 87S (straight), and TR 87A (hand bendable), where a valve stem is desired to f it through a small valve hole in small diameter rims. The TR 220A is longer than the TR 218A and is used on selected tube sizes.

All of the above valves except TR 87, TR 87A, TR 87S, TR 135, and TR 150 are of the air-water type design for use with calcium chloride solution or water at the option of the user.

S7.2.2.2 <u>Industrial tire tubes</u>. The CW valve is also fitted to tubes used in industrial applications where added weight ( liquid in tube) or higher inflation pressures ( 60-100 p.s. 1. ) are required

S7. 3 <u>Valve designation</u>. Valves with air-water and higher inflation pressure capabilities have been specified in this standard where appropriate in order to reduce inventory complexities, as these valves are also appropriate for any use application where less than 60 p.s. i. is required.

S7.4 <u>Tube size designation</u>. Because manuf acturing practices vary and individual manuf acturers vary their marking pattern as dictated by their market, tubes in tables I and II may not be size marked exactly as shown in column 1 of the table or they may be marked to fit more than one tire size Where a tube size is listed and column 3 shows that this same tube can also fit another size tire, the size designation as shown in column I is the designation used by most manufacturers.

- Example No. 1. PASSENGER TIRE TUBES, TABLE 1. Tubes for passenger car tires are size marked by tube group size (see note (1) page 6). Tube group size is designated alphanumerically by most manufacturers as shown in Table I. A numerical designation has recently been developed using four numerals. When tune group size is designated numerically, the first two numerals represent the nominal rim diameter followed by two numerals representing sectional diameter as follows: The tube group size shown as F-13 would be size marked 1307, etc. The tube supplied with a numerical designation is designed to f it, as a minimum, each of the tire sizes shown in the column titled "Fits tire sizes" on the appropriate line.
- Example No. 2. On Line 1, page 11, the tube size is shown as 6. 90/6. 00-9. In column 3, the table shows that this tube will fit tire sizes 6.00-9 and 6.90-9. The industry trend is to size mark the tire 6.90.9 dropping the old 6.00 size designation; however, tires with the 6. 90/6.00-9 designation are still in service. The tube marked as shown in column 1 will fit a 6.00-9, 6.90-9, or a 6.90/6.00-9 size marked tire.
- Example No. 3. On line 13, page 11, the tube size is shown as 7/8-17.5. In column 3, the table shows that this tube will fit a 7-17.5 or an 8-17.5 size tire. This is industry practice. The 7-17.5 and 8-17.5 tires are separate sizes but the tube marked as shown in column 1 will fit either size tire.
- Example No. 4. On line 14, page 19, the tube size is shown as 12.4-38. In column 3, the table shows that this tube will also fit an 11-38 size tire. In actual practice the tube may be marked 12.4-38 (11-38), 12.4/11-38, or 12.4-38. The industry trend is to size mark the tire 12.4-38 and a tube marked as shown in column 1 will f it a 12.4-38 or an 11-38 size tire.
- Example No. 5. On line 19, page 25, the tube size is shown as 29.5-35. In column 3, the table shows that this tube will also fit a 33.25-35 size tire. This is industry practice. The 29.5-35 and 33.25-35 tires are separate sizes but the tube marked as shown in column 1 will fit either size tire.

S7. <u>5 Numerical index of National stock numbers</u>. A numerical listing of National stock numbers identified to tube size and valve combinations listed in this standard is shown in Appendix A (see page 29).

Orders for this publication are to be placed with General Administration, acting as an agent for the Superintendent of Documents. Single copies of this standard are available without charge at the GSA Business Service Centers in Boston, New York, Atlanta, Chicago, Kansas City, MO, Fort Worth, Denver, San Francisco, Los Angeles, Seattle, WA, Philadelphia, PA, and Houston, TX. Additional copies may be purchased for 25 cents each from the General Services Administration, Specif ications Activity, Printed Materials Supply Division Building 197, Naval Weapons Plant, Washington, DC 20407.

		Table I. Tubes for pass (pas	Tubes for passenger car and motorcycle tires (passenger car tires) AR	tires	
(1) Tube group size	(3) TR valve	Fits tire sizes	NSN 2610-00-	Other applications (see S7.1)	Peplaces NSN's-2610-00-
F-13	13	5.20-13, 5.60-13, 6.00-13	729-4583		
G-13	13	5.90-13, 6.40-13, 6.50-13	729-4589	AD	
K-13	13	6.70-13, 7.00-13	088-9292	AL	
F-14	13	5.00-14, 5.20-14, 5.60-14 5.90-14, 6.00-14, 6.45-14	177-6891		
G-14	13	6.40-14, 6.50-14, 6.95-14	177-6892		
K14	13	7.00-14, 7.34-14, 7.50-14 7.75-14	061-0501	AD, AL	729-4590, 889-9110
M-14	13	8.00-14, 8.25-14, 8.50-14, 8.55-14	729-4575		729-4574
P-14	13	8.85-14, 9.00-14, 9.50-14	729-4572		
G-15	13	5.50-15, 5.90-15, 6.00-15, 6.40-15, 6.50-15, 6.85-15, 7.35-15	051-9182		051-9196, 051-9198
K-15	13	6.70-15, 7.10-15, 7.75-15, 8.15-15, 8.25-15	294-4325	ΔA	051-9184, 051-9190, 555-6617
M-15	e: F	7.00-15, 7.50-15, 7.60-15 8.00-15, 8.20-15, 8.45-15, 8.55-15, 8.85-15, 9.00-15, 9.15-15	591-2865		051-9202, 275-7912, 275-7915, 826-2920

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(2) Motor scooter tires use tubes as listed in table II.(3) Valve location off centerline of tupe.(4) Valve location related to centerline of tube.

(1) Tube group size designation is the designation of an individual tube. The tube is designed to properly fit each of the tire sizes shown in the column titled "Fits tire sizes" (see S7.4).

5.10-16

13 13

5.00-16, 5.10-16

××

051-9234 424-9920

		(pass	(passenger car tires) (continued) AR	AR	
(1) Tube group size	(3) TR Valve	Fits tire sizes	NSN 2610-00-	Other applications (see S7.1)	Replaces NSN's-2610-00-
8.90-15	13	8.90-15	266-6650		204-4903
G-16	15	5.50-16, 6.00-16	555-6615		275-7913, 528-7778, 528-7779, 554-1259
K-16	15	6.50-16, 6.70-16, 7.00-16, 7.60-16	555-6614		172-9832, 889-9111, 554-1265, 275-7911, 294-4316
M-16	15	7.50-16, 8.20-16, 8.25-16	555-6611		051-9258
(1)			(2) (Motorcycle tires) AP		
Tube group size	(3) TR Valve	Fits tire sizes	(4) Valve <u>location</u> Off On	NSN 2610-00-	Replaces NSN's-2610-00
V18-19	1 <u>4</u>	3.25-18, 3.50-18, 3.25-19, 3.50-19, 3.75-19, MM90-19	X	294-4321 051-9330	540-5871
W18-19	13	4.00-18, 4.25-18, 4.50-18, 4.00-19	x	051-9334	294-4300, 275-7917

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Table I. Tubes for passenger car and motorcycle tires

Table II		Tubes for ti a	res used on trucks nd industrial vehi	Tubes for tires used on trucks, trailers, earthmoving, agricultural and industrial vehicles and on motor scooters	agrıcultural rs	
(1) Tube sıze	TR valve	(1) Also fits tire sizes	(2) Valve <u>location</u> Off On	NSN 2610-00-	Normal applications (see S7.1)	Replaces NSN's-2610-00-
2.50-4				Use 2.80/2.50-4		
2.80/2.50-4	87 87A 87S	2.50-4 2.80-4	* * *	764-4421 051-9100 424-9874	አ አ ጊ ጊ	
3.00-5				<b>Use 3.40/3.00-5</b>		
3_00-7				Use 3.40/3.00-7		
3.00-12				<b>Use 3.50-1</b> 2		
3.40/3.00-5	87 87A 87S	3.00-5 3.40-5	* * *	051-9110 424-9875 424-9876	ل م ل ل م	
3.40/3.00-7	87	3.00-7 3.40-7	×	051-9120		204-3132, 269-7751
3.50-4				Use 4.10/3.50-4		
3.50-5				Use 4.10/3.50-5		
3.50-6				<b>Use 4.10/3.</b> 50-6		
3.50-12	15CW	3.00-12	×	528-7771	ĄА	528-7726
4-19	15CW			Use 4.00-19		

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Table II (cont.)		Tubes for tire	s used on trucks, tra industrial vehicles	Tubes for tires used on trucks, trailers, earthmoving, agricultural and industrial vehicles and on motor scooters	cultural	Fed. Std. Nc. 308B
(1) Tube size	TR Valve	(1) Also fits tire sizes	(2) Valve location Off On	NSN 2610-00-	Normal applications (see \$7.1)	Replaces I;SN's-2610-00-
4.00-7				<b>Use 4.80/4.00-7</b>		
4.00-8				Use 4.80/4.00-8		
4-00-9	13		×	269-7364	AA	
4.00-12	15CW		×	528-7772	AA, AB	260-7337, 269-7355
4.00-15	15CW		x	260-7338	AA, AB	269-7403
4.00-18	15CW		×	528-7774	AA	269-7759
4.00-19	15CW	4-19	x	269-7758	AB	
4.00-36	15CW		x	528-7775	AA	554-4389
4.10/3.50-4	87 87a 87s	3.50-4 4.10-4	* * *	061-0500 721-7279 165-3905	АG АЈ, АД АЈ, АД	
4.10/3.50-5	13 87 87A 87S	3-50-5 4.10-5	* * * *	529-8660 269-7353 721-9293 721-9294	23, 20 23, 20 20 20 20 20 20 20 20 20 20 20 20 20 2	
4.10/3.50-6	13 87 87A 875	3.50-6 4.10-6	* * * *	889-9831 051-9114 424-9877 424-9878 7	ао ад ај, ај, ао ај, ај, ао	260-7334

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Table II (cont.)		Tubes for ti	res used on trucks, . Ind industrial vehicle	Tubes for tires used on trucks, trailers, earthmoving, agricultural and industrial vehicles and on motor scooters	agrıcultural rs	
(1) Tube Sıze	TR Valve	(1) Also fits tire sizes	(2) Valve location Off On	NSN 2610-00-	Normal applications (see S7.1)	Replaces NSN's-2610-00-
4.30-8				Use 4.80/4.00-8		
4.50-6				Use 5.30/4.50-ó		
4.50-7				Use 5.30/4.50-7		
4.50-12				Use 5.30/4.50-12		
4.80/4.00-7	87	4.00-7 4.80-7	×	051-9126		
4.80/4.00-8	13CW	4.00-8	×	528-7709		898-9754, 051-y138, 5d0-5884,
4.80/4.00-8	13 87	4.30-8	××	889-9174	ត្តំ ភ្នំ	604-3306, 526-7764
	87A 87S	4.80-8	××	104-1778 104-1779		
4_80/4_00-9 4_80/4_00-9	13CW	4.00-9	~ ×	051-9148	AD, AJ	
4.00/4.00-0	479 67	4.80-9	×	424-9879		
	875		×	424-9880	AD, AJ	
4.80/4.00-12	1.3CW	4.00-12	×	269-7336		
	87A 875	4.80-12	××	424-9881 424-9882	AD, AJ	
	070		>	424-9882		
5-8	13CW		x	684-1899	Ðđ	
5-12	15CW		x	528-7702	AG	
5-00-8				Use 5,70/5,00-8		

.

Use 5,70/5.00-8 8

5,00-8

Table II (cont.)		Tubes for tire and	Tubes for tires used on trucks, trailers, earthmoving, agricultural and industrial vehicles and on motor scooters	ers, earthmoving, agr d on motor scooters	ıcultural	
(1) Tube Sıze	TR Valve	(1) Also fits tire sızes	(2) Valve location Off On	NSN 2610-00-	Normal applications (see S7.1)	Replaces NSN's-2610-00-
5.00-15	15CW		Х	260-7333	AÁ, AB	269-7757
5.00-16	15CW		x	294-7640	АА	
5.30/4.50-6	13 87	4.50-6 5.30-6	x x	528-7828 089-5996	AG AG	051-9106
	87A 87S		× × >	721-9301 721-9304	AD, AJ, AQ AD, AJ, AQ	
5.30/4.50-7	87	4.50-7 5.30-7	×	051-9130	AA	
5.30/4.50-12 5.30/4.50-12	13CW 13	4.50-12	××	269-7356	AD, AJ, AQ	524-7796
	87A 87S	5.30-12	××	405-4371 721-9305	AD, AJ, AQ AD, AJ, AQ	
5.50-16	15CW		X	528-7757	AA, AB	269-7341, 825-6297
5.70/5.00-8 5.70/5.00-8	13CW 13 87A 87S	5.00-8 5.70-8	* * * *	528-7798 405-4372 405-4369	AD, AG, AJ AD, AG, AJ AD, AJ AD, AG, AJ	849-0570, 915-1218
5-90-15	15CW			<b>Use 5.90/6.40-1</b> 5		
5.90/6.40-15 5.90/6.40-15	15CW 15	5.90-15 6.40-15	X	528-7760	АА АА	528-7758
6-12	13CW		x	528-7703	AG	

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Table II (cont.)		Tubes for ti. a	Tubes for tires used on trucks, trailers, earthmoving, agricultural and industrial vehicles and on motor scooters     (2)     (1)   Valve	llers, earthmoving, ag and on motor scooters	pricultural Normal	
(1) Tube Sıze	TR Valve	(1) Also fits tir <b>e</b> sizes	(2) Valve Off On	NSN 2610-00-	Normal epplications (see S7.1)	Replaces NSN's-2610-00-
6-16	15CW		×	684-1900	AG	
6-30				Use 6.2-30		
6-00-6				Use 6.90/6.00-6		
6-00-9				Use 6.90/6.00-9		
6.00-12				Use 6.90/6.00-12	10	
6.00-14	1.3CW		x	061-0498	AB	
6.00-16	15 15CW 135		× × ×	350-9975 528-7759 497-6928	AJ, AL AA, AB, AJ AL	554-1631, 269-7339
6-00-20	15CW		•	Use 6.00-21		
6.00-21	15CW	6.00-20	x	528-7802	AA	269-7381, 826-2805
6.2-30	218A	6~30	х	528-7641	AA	
6.40-15	15CW			Use 5.90/6.40-15	U.	
6.50-10 6.50-10	15CW 15 135		* * *	528-7783 489-2554	АД, АЈ АД, АЈ АД, АЈ	350- <b>y974, 526-7</b> 803, 555-6192

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Table II (cont.)		Tubes for tin au	Tubes for tires used on trucks, trailers, earthmoving, agricultural and industrial vehicles and on motor scooters	llers, earthmoving, a and on motor scooters	gricultural	
(1) Tube Size	TR Valve	(1) Also fits tire sizes	(2) Valve <u>location</u> Off On	NSN 2610-00-	Normal applications (see S7.1)	Replaces NSN's-2610-00-
6.50-13	13			Use 6,50-13, Table I		
6.50-16	15 15CW 135 150		****	269-7373 269-7340 405-4364 269-7377	AL AA, AB AL AL	269-7407
6.50-20	460 75A		××	350-1964	AX AX	260-7352, 528-7834, 269-7380
6.50-36	15CW		x	528-7762	AA	554-1270
6.70/7.10-15	15	6.70-15 7.10-15	×	585-0831	AL	
6.70-15	13CW		Х	555-5676	AA	
6.90/6.00-6	87A 87S	6.00-6	× ×	721-9311 721-9312	АЈ, АQ АЈ, АQ	260-7340
6-90/6-00-9	13CW 87A 87S 135	6.00-9	* * * *	528-7789 889-9158 497-6930 089-5997	AD, AJ, AQ AD, AJ, AQ AD, AJ, AQ AJ	269-7354, 269-7365, 269-7367, 585-1175, 528-7766
6.90/6.00-12	1 3CW 87A 87S	6.00-12 6.90-12	* * *	269-7402 721-9313 721-9314	AD, AJ AD, AJ AD, AJ	

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Table II (cont.)		Tubes for ti a	Tubes for tires used on trucks, trailers, earthmoving, agricultural and industrial vehicles and on motor scooters	ailers and o	, earthmoving, agric n motor scooters	ultural	
(1) Tube Sıze	TR Valve	(1) Also fits tire sizes	(2) Valve <u>location</u> Off On		NSN 2610-00-	Normal applications (see S7.1)	Replaces NSN'5-2610-00-
7-14.5					<b>Use</b> 7/8-14.5		
7/8-14-5	300	7-14-5 8-14-5	x		424-9883	AL	
7-16	15CW		×		528-7705	ΑA	
7-17.5					Use 7/8-17.5		
7/8-17.5	300	7-17.5 8-17.5	X		729-4570	AL	729 <b>-45</b> 80, 82c-0108
7-22.5	300		x		826-0111		729-4579
7-24	218A				Use 7.2-24		
7.00-10	135		х		424-9884	đ	
7.00-12	75A		x		204~3016	АĴ	523- <b>7762,</b> 825-2819, 889-9107
7.00-13	13				Use 7.00-13, Table I		
7.00-14	13 13CW		х		Use K-14, Taole I 424-9885	AL (Load Range E)	≥ E)
7.00-15 DC or SDC	15 15CW 135 135		* * * *	12	051-9204 405-4375 165-3904 051-9224	AL AL	528-7731

Table II (cont.)		Tubes for tire and	s used on trucks, t Industrial vehicle	for tires used on trucks, trailers, earthmoving, agricultural and industrial vehicles and on motor scooters	gricul tural	
(1) Tube Size	TR Valve	(1) Also fits tire sizes	(2) Valve location Off On	NSN 2610-00-	Normal applications (see <i>S</i> 7.1)	Replaces NSN's-2610-00-
7.00-15 FB	75A 177A		××	405-4374 555-5666	АЈ, AX АW	528-7835, 849-4011, 881-3324
7.00-16	15 135 150		× × ×	269-7332 528-7732 269-7378	AL AL AL	
7.00-17	75A		×	051 -9306	AX	260-7348, 528-7733, 554-0413, 554-1637
7.00-18	75A		×	269-7343	AX	
7.00-20	75A		×	269-7346	AU, AW, AX	260-7349, 269-7333, 554-1630
7.00-24	75A		×	051-9552	AU	269-7387, 825-7017, 554-1266
7.10-15	15			Use 6.70/7.10-15	5	
7.2-24	218A	7-24	×	528-7643	AB	
7.5L-15	15CW	7.50L-15	×	424-9886	AB	
7.50-10	75A 15CW 135 150CW		× ×××	591-2859 569-0817 405-4365 262-1948	АЈ АВ, АD, АJ, АИ АВ, АD, АJ, АМ АВ, АD, АJ, АМ	269-7331, 269-7404, 535-6496, 702-2862, 882-8666, 889-9828, 528-7767
7.50-15 DC or SDC	15CW 135 150		* * *	975-4826 051-9210 288-3927 13	AL AL AL	889-9827, 702-2858, 889-9108

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	e T	Use K-15, Table			3	7.75-15
	e H	Use K-14, Table			13	7.75-14
	AA	528-7806	x		13CW	7.60-15
		Use 9.5-36			15CW	7.50-36
051-9558, 269-7388, 889-9109	AU	260-7364 Use 9.5-24	××		461 177a 218a	7.50-24
269-7376, 536-3860, 061-0495, 900 <del>-8</del> 635	AA, AB AU, AW, AX AU, AW, AX	227-0354 269-7347	× × ×		15CW 177A 461	7.50-20
269-7350, 26ē-6662, 554 <b>-1</b> 639, 544-1261	AA, AB AW, AX AW, AX	266-6663 269-7344	× × ×		15CW 177A 461	7.50-18
528-7841	AX	260-1346	×		460 75A	7.50-17
051-9260, 277-2915, 640-3708	AA, AB, AL Al Al	269-7760 204-2074 173-5230	* * *		15CW 135 150	7.50-16
725-1293, 899-9627	AJ, AW, AX AJ, AN, AX	528-7712 269-7329	××		75A 177A	7.50-15 FB
Replaces NSN's-2610-00-	Normal applications (see S7.1)	NSN 2610-00-	(2) Valve Off On	(1) Also fits tire sizes	TR Valve	(1) Tube Sıze
	gricul tural	llers, earthmoving, a and on motor scooters	Tubes for tires used on trucks, trailers, earthmoving, agricultural and industrial vehicles and on motor scooters	Tubes for ti	880 (	Fed. Std. No. 3068 Table II (cont.)

Table II (cont.)		Tubes for tir an	es used on tru d industrial v	cks, traile ehicles and	Tubes for tires used on trucks, trailers, earthmoving, agricultural and industrial vehicles and on motor scooters	icul tural	Fed. Std. No. 308B
(1) Tube Size	TR Valve	(1) Also fits tire sizes	(2) Valve Off (	ទ្ធ	NSN 2610-00-	Normal applications (see S7.1)	Replaces NSN's-2610-00-
8-14.5					Use 7/8-14.5		
8-17.5					Use 7/8-17.5		
8-19.5					Use 8/9-19.5		
8/9-19.5	300	8-19.5 9-19.5	×		729-4581	AX	
8-22.5					Use 8/9-22.5		
8/9-22.5	300	8-22,5 9-22,5	×		826-0112	AX	729-4576, 729-4577, 826-0113
8-24					Use 8.3-24		
8.00-16.5	15CW 150CW		××		<b>424</b> -9887 424-9888	AL AL	
8.15-15	77A 462				Use 8.25-15		
8-25-15	77A 462			××	260-7347	AJ, AW, AX AJ, AW, AX	051-9214
8.25-16	150 461 177A		×	××	528-7847 405-4367	AL AL	554-0404
8.25-17	77A 462			××	528-7849 15	AX AX	

Tubes for tires used on trucks, trailers, eartnmoving, agricultural and industrial vehicles and on motor scooters     (1)   (2)     (1)   Valve     Also fits   location     NSN   applications     tire sizes   Off	X 405-4376 AU, AX X X	X 528-7850 Aw, AX X X	X 260-7335 AU X AU	8-24 X 260-7361 AH	X 424-9889 AA	X 424-9890 AL X 424-9891 AL	Use 9.5-16	Use 9.5-16 Use 8/9-19.5	Use 9.5-16 Use 8/9-19.5 Use 8/9-22.5	Use 9.5-16 Use 8/9-19.5 Use 8/9-22.5 Use 9.5-24	Use 9.5-16 Use 8/9-19.5 Use 8/9-22.5 Use 9.5-24 Use 9.5-32
rallers, eartnmoving, agricultural s and on motor scooters Normal NSN applicatio 2610-00- (see S7.	AV, AW,	Aw, Alv,					5	16 16	16 19.5	24 12 5 19.5	16 19.5

9.5-32 218A 9-32 X 269-7397 AH	9.5-24 218A 7.50-24 X 260-7353 AH 9-24	9.5-16 15CW 9-16 X 528-7644 AA 218A X 424-9892 AH	9.00-24 463 X AU 175A X 051-9560 AU 75A X 555-5669 AU 460 X X AU AU	9.00-20 175A X 269-7383 AW, AX 463 X AW, AX	9.00-18 175A X 051-9356 AX 463 X AX	9.00-16 15CW X 266-6659 AA, AB 177A X 051-9266 AL 461 X AL	9.00-15 175A X 051-9216 AW, AX 463 X Ali, AX	9-00-10 15CW X 405-4373 AB, AD, AJ, AW 135 X 405-4366 AB, AD, AJ, AW 150CW X 528-7794 AB, AD, AJ, AW	(1)(2)(1)Valve(1)ValveNSNNSNTube SizeValvetire sizesOffOffOn2610-00-(see S7.1)	and industrial vehicles and on motor scooters
Ан	AH	AA AH	AU AU AU	AW, AX AW, AX	AX			AD, AJ, AD, AJ, AD, AJ, AD, AJ,	Normal applications (see S7.1)	9 adiichichtai
528~7645	260-7358, 269-7382		051-9566, 052-0002, 141-8602, 554-4163	061-0497, 266-6657, 350-9976, 900-8637	555-6389	051-9268, 894-0366, 528-7856, 269-7368, 350-1963, 901-9665	269-7370 528-7855	262-1949, 269-7335, 815-0793, 973-7059	Replaces NSN's-2610-00-	

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Fed. Std. No. 308B Table II (cont.)		Tubes for tire	Tubes for tires used on trucks, trailers, earthmoving, agricultural and industrial vehicles and on motor scooters	lers, earthmoving, ag nd on motor scooters	rrcul tural	
(1) Tube Sıze	TR Valve	(1) Also fits tire sizes	(2) Valve location Off On	NSN 2610-00-	Normal applications (see \$7.1)	Replaces NSN's-2610-00-
9.5-36	15CW 218A	7,50-36 9-36	××	818-3621 528-7652	AA AH	
9.5114	13CW	9.50L-14	х	424-9893	AA	
9.5L-15	15CW	9.50L-15	x	424-9894	AA, AB	-
9.50-16.5	15CW 150CW		××	424-9895 424-9896	AL AL	
9,50-20	15CW		X	269-7357	А́́	
10-16.5	15CW		×	424-9898	AL	
10-17.5	15CW			Use 10-16.5		
10-22.5	005	10-22.5 10.3-22.5	×	826-0114	AX	729-4578, 826-0115
10-24	218A			Use 11.2-24		
10-28	218A			Use 11.2~28		
10-34	218A			Use 11.2-34		
10-36	218A	-		Use 11.2-36		
10-38	218A			<b>Use 11.2-38</b>		

Table II (cont.)		Tubes for ti	ces used on tr nd industrial	rucks, trailer vehicles and	Tubes for tires used on trucks, trailers, earthmoving, agricultural and industrial vehicles and on motor scooters	ıcultural	rea. sta. ko. gvyb
(1) Tube Size	TR Valve	(1) Also fits tire sizes	(2) Valve location Off On	On n	NSN 2610-00-	Normal applications (see \$7.1)	Replaces NSN's-2610-00-
10.3-20	464 78A			××	529-5739	AX AX	
10.3-22.5	300				Use 10-22.5		
10.00-15	15CW 78A		×	×	142-5139 260-7354	AA AW, AX	269-7330, 52E-7734, 051-9218, 293-4860
10.00-16	15CW -		×		424-9899	AE	
10.00-18	464 78A			××	529-5731	AX AX	
10.00-20	464 78a 218a		×	××	260-7345 528-7741	AW, AX AW, AX AT	269-7384
10-00-22	78A			×	260-7342	AX	
10-00-24	464 78A 218A		×	××	260-7341 051-9574	AU, AX AU, AX AT	051-9576, 209-7389, 529-5738, 555-5681
10,50-18					Use 10.50/11.00-18	u	
10.50/11.00-18	78A 464	10.50-18 11.00-18		××	051-9362	AX AX	051-9360

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	AA, AB	424-9903	x	11.00L-15	15CW	111-15
	AA	424-9902	Х	11.00L-14	13CW	11114
		Use 12.4-38			218A	11-38
		<b>Use</b> 12.4-36			218A	11-36
		<b>Use 12.4-28</b>			218A	11-28
		<b>Use</b> 12.4-26			218A	11-26
729-4587, 820-0118, 729-4588	AX	826-0119	×	11-24-5 12-24-5	<b>9</b> 00	11/12-24.5
		Use 11/12-24.5			300	11-24.5
		Use 12.4-24			218A	11-24
729-4585, 729-4586, 826-0117	AX	826-0116	×	11-22.5 12-22.5	300	11/12-22-5
		Use 11/12-22.5			300	11-22.5
		<b>Use 12.4-1</b> 6			15CW	11-16
	AG	165-3902 424-9901	××		13 87s	11x4.00-5
Replaces NSN's-2610-00-	Normal applications (see S7.1)	NSN 2610-00-	(2) Valve <u>location</u> Off On	(1) Also fits tire sizes	TR Valve	(1) Tube Size
	grıcul tural	and on motor scooters	Tubes for tires used on trucks, trailers, earthmoving, agricultural and industrial vehicles and on motor scooters	Tubes for ti	) 88	Fed. Std. Mo. 308B Table II (cont.)

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Table II (cont.)		Tubes for th	Tubes for tires used on trucks, trailers, earthmoving, agricultural and industrial vehicles and on motor scooters	ailers, earthmoving, a and on motor scooters	igrícul tural	
(1) Tube Size	TR Valve	(1) Also fits tire sızes	(2) Valve location Off On	NSN 2610-00-	Normal applications (see \$7.1)	Replaces NSN's-2610-00-
11L-16	15CW	11.001-16	x	424-9904	AA	168-9893
11.00-15	464 78A		××	555-5678	AX AX	
11.00-16*	15CW		×	528-7815	AE	
	150CW		×	165-3901	AB	
11.00-18				Use 10.50/11.00~18	-18	
11.00-20	464 78a		××	051-9450	AW, AX AW, AX	266-6649, 540-8847
11.00-22	464 78A		××	266-6665	AX AX	269-7386, 529-5745
	464		X		AX	
11.00-24	78A 218A		×:	051-9578 Use 11.00/12.00-24	-24 AX	554-1282
	220A 220A			Use 11.00/12.00-24 Use 11.00/12.00-24	-24 -24	
11.00/12.00-24	218A 220A	11.00-24 12.00-24	××	051-9588 260-7363	AT AW	051-9580
11.2-24	218A	10-24	×	051-9572	AH	555-6194
11.2-28	218A	10-28	x	260-7359	AH	269-7337
	;					

\*This tube used when tire is mounted on 6.50H rim. When 11.00-16 tire is mounted on W8 or W10 rims, use 12.4-16 tube.

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Table II (cont.)		Tubes for tires and	Tubes for tires used on trucks, trailers, earthmoving, agricultural and industrial vehicles and on motor scooters	, earthmoving, agri n motor scooters	cultural	
(1) Tube Size	TR Valve	(1) Also fits tíre sizes	(2) Valve location Off On	NSN 2610-00-	Normal applications (see S7.1)	Replaces NSN's-2610-00-
11.2-34	218A	10-34	×	528-7057	АН	
11.2-36	218A	10-36	x	528-7665	АН	
11.2-38	218A	10-38	×	<b>528-7</b> 666	ΡΗ	
11.25-24	218A		×	528-7755	AA	
11.25-28	218A		X	424-9906	AA	
12-16.5	15CW		*	424-9907	ΑL	
12-22.5	300			Use 11/12-22.5		
12-24	218A			Use 13.6-24		
12-24.5	300			Use 11/12-24.5		
12-26	218A			Use 13.6-26		
12-28	218A			Use 13.6-28		
12-36	218A			Use 13.6-36		
12-38	218A			Use 13.5-38		

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		Use 14.9-26			218A	13-26
		Use 14.9-24			218A	13-24
	AA	424-9909	×	11.00-16	15CW	12.5L-16
	АA	424-9908	×	11.00-15	15CW	12.5L-15
204-3195	AH	528-7678	×	11-38	218A	12.4-38
269-7413	ĄН	555-5673	X	11-36	218A	12.4-36
269-7338	ЧЧ	528-7676	×	11-28	218A	12.4-28
	AH	528-7671	×	11-26	218A	12.4-26
555-5674	АН	975-4825	×	11-24	218A	12.4-24
	АН	774-9081	X	11-16, 11.00-16	15CW	12.4-16
		Use 13.6-28			218A	12.00-28
	AF, AX AF, AX	269-7390 Use 11.00/12.00-24 Use 11.00/12.00-24	××		464 78A 218A 220A	12.00-24/25
	AF, AW, AX AF, AW, AX	051-9454	××		464 78A	12.00/20/21
Replaces NSN-2610-00-	Normal applications (see S7.1)	NSN 2610-00-	(2) Valve Off On	(1) Also fits tire sizes	TR Valve	(1) Tube Size
Fed. Std. No. 308B	.cultural	Tubes for tires used on trucks, trailers, earthmoving, agricultural and industrial vehicles and on motor scooters	ires used on trucks, trallers, earthmoving, a and industrial vehicles and on motor scooters	Tubes for tires and i		Table II (cont.)

Fed. Std. No. 308B Table II (cont.)	u	Tupes for tir an	' Tures for tires used on trucks, trailers, earthmoving, agricultural and industrial vehicles and on motor scooters	ers, earthmoving, agricu d on motor scooters	ıl tural	
(1) Tube Sıze	TR Valve	(1) Also fits tire sizes	(2) Valve <u>location</u> Off On	NSN 2610-00-	Normal applications (see S7.1)	Replaces NSN's-2610-00-
13-28	218A			Use 14.5-28		
13-30	218A			Use 14.9-30		
13-38	218A			Use 14.9-38		
13.00-20	465 179A 220A		××	051-9460 Use 13.00/14.00-20	AF, AX AF, AX	52 <b>9-</b> 5753
13.00/14.00-20	220A	13.00-20 14.00-20	x	051-9462	ΡT	051-9458, 051-9482
13.00-24/25	465 179A 220A		××	051-9594 Use 13.00/14.00-24	AF, AX AF, AX	529-5755, 269-7422, 529-5756
13.00/14.00-24	220A	13.00-24 14.00-24	x	555-6613	AT, AW	051-9590, 528-7715, 726-256 <b>4</b> , 825-7021
13.50-16.1	15CW 218A		××	424-9910 424-9911	AA AA	
13.6-24	218A	12-24	х	528-7816	AH	528-7817
<sub>,</sub> 13-6-26	218A	12-26	x	528-7681	AH	051-9634
13.6-28	218A	12-28 12-00-28	х	528-7682	АН, АТ	, ,

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Table II (cont.)		Tubes for tir an	es used on trucks, tra d industrial vehicles (2)	Tubes for tires used on trucks, trailers, earthmoving, agricultural and industrial vehicles and on motor scooters (2)	ultural	
(1) Tube Size	TR Valve	(1) Also fits tire sizes	(2) Valve location Off On	NSN 2610-00-	Normal applications (see S7.1)	Replaces NSN's-2610-00-
13.6-36	218A	12-36	×	528-7683	АН	
13.6-38	218A	12-38	×	294-7639	AH	260-7369
13.9-36	218A		×	424-9912	AH	
14L-16A	15CW			Use 14L-16.1		
14L-16.1	15CW	14L-16A	×	476-6461	AA, AB	
14L-16.1	15		x		AA, AB	
14-17-5	15CW		х	424-9913	AL	
14-24	218A			Use 16.9-24		
14-26	218A			<b>Use 16.9-26</b>		
14-28	218A			<b>Use 16.9-2</b> 8		
14-30	218A			Use 16.9-30		
14-34	218A			Use 16.9-34		
14-38	218A			<b>Use 16.9-3</b> 8		
14.00-20/21	<b>4</b> 65 179A 220A		××	051-9464 25 Use 13.00/14.00-20	AF, AW, AX AF, AW, AX	051-9466, 051-9468, 900-8639, 591-2842, 889-9285, 528-7795

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Fed. Std. No. 3068 Table II (cont.)		Tubes for tire and	Tubes for tires used on trucks, trailers, earthmoving, agricultural and industrial vehicles and on motor scooters	ers, earthmoving, agri 1 on motor scooters	cultural	
(1) Tube Size	IR Valve	(1) Also fits tire sizes	(2) Valve location Off On	NSN 2610-00-	Normal applications (see S7.1)	Replaces NSN's-2610-00-
14_00-24/25	465 179A 220A		××	051-9602 Use 13.00/14.00-24	AF, AW, AX AF, AW, AX	528-7791, 554-1632, 260-7351
14-9-24	218A	13-24	×	528-7ê85	AH	051-9584, 051-9 <del>6</del> 00, 825-7021
14_9-26	218A	13-26	×	528-7687	АН	051-9636
14.9-28	218A	13-28	x	269-7342	АН	269-7394
14.9-30	218A	13-30	×	227-035ā	Ан	
14.9-38	218A	13-38	×	528-7691	AH	
15-16A	220A			Use 18.4-16.1		
15-19.5	70	16.5-19.5	×	403-5740	AX	
15-22.5	70	16.5-22.5	x	424-9914	• AX	
15-24	218A			Use 18.4-24		
15-26	218A			Use 18.4-26		
15-28	218A			<b>Use</b> 18.4-28		
15-30	218A			<b>Use 18.4-3</b> 0		
15-34	218A			Use 18.4-34 26		

Table II (cont.)		Tubes for tire	Tubes for tires used on trucks, trailers, earthmoving, agricultural and industrial vehicles and on motor scooters	ers, earthmoving, agric d on motor scooters	cultural	
(1) Tube Size	TR Valve	(1) Also fits tire sızes	(2) Valve location Off On	NSN 2610-00-	Normal Applications (see S7.1)	Replaces NSN's-2610-00-
15.5-25	SP-4000		×	476-6463	AF	
15.5-38	218A		x	528-7831	АН	
16x6.50-8	13 875		××	499-8025 424-9915	AG	
16,00-16	218A		×	528-7832		
16_00-20	220A SP-4000		×	405-4368 Use 16.00-20/21	ΑT	528-7717
16.00-20/21	SP-4000	<b>16.</b> 00-20 16.00-21	х	278-0889	Ąŗ	051-9472, 051-9474
16.00-21	SP-4000			Use 16.00-20/21		
16.00-24	220A SP-4000		x	476-6462 Use 16.00-24/25	AT, AW	
16.00-24/25	SP-4000	16.00-24 16.00-25	х	051-9610	AF, AW	051-9618, 051-9626, 288-1691, 591-2844
16.00-25	SP-4000			Use 16.00-24/25		
16.5L-16.1	15CW 218A		××	476-6464 476-6465	АА АА	
16.5-19.5	70		x	Use 15-19.5	AX .	

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Fed. Std. No. 308B Table II (cont.)	ŭ	Tubes for tire and	Tubes for tires used on trucks, trailers, earthmoving, agricultural and industrial vehicles and on motor scooters	rs, earthmoving, agr on motor scooters	ucul tural	
(1) Tube Sıze	TR Valve	(1) Also fits tire sizes	(2) Valve location Off On	NSN 2610-00-	Normal applications (see S7.1)	Replaces NSN's-2610-00-
16.5-22.5	70		x	Use 15-22.5	AX	
16.9-24	218A	14-24	x	528-7829	AH	051-9ō08, 52E-7830
16_9-26	218A	14-26	×	528-7692	АН	
16,9-28	218A	14-28	×	269-7408	АН	260-7366, 269-7398, 528-7693
16_9-30	218A	14-30 ,	х	051-9676	AH	
16_9-34	218A	14-34	x	528-7696	Ан	
16.9-38	218A	14-38	Х	476-6465	AH	
17.5-25	SP-4000		Х	476-5467	≻ rj	
18x9+50-8	13CW 875		х.х	424-9916 424-9917	AG	
18-19-5	70		Х	476-6468	AX	
18-22.5	70		X	451-1039	AX	
18-26	218A			<b>Use</b> 23.1-26		
18-30	218A		•	<b>Use 23.1-3</b> 0		
18-34	218A			Use 23.1-34		

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Table II (cont.)		Tubes for tire and	Tubes for tires used on trucks, trailers, earthmoving, agricultural and industrial vehicles and on motor scooters	ers, earthmoving, egri on motor scooters	.cul tural	Fed. Std. No. 308B
(1) Tube Size	TR Valve	(1) Also fits tire sizes	(2) Valve location Off On	NSN 2610-00-	Normal applications (see S7.1)	Replaces NSN's-2610-00-
18.00-24	SP-4000			<b>Use</b> 18.00-24/25		
18.00-24/25	SP-4000	18.00-24 18.00-25	×	051-9628	AF, AW	051-9612, 051-9620, 261-8390
18.00-25	SP-4000			Use 18.00-24/25		
18.00-26	218A		×	409-7790	AT	
18.00-32	SP-4000			Use 18.00-32/33		
18.00-32/33	SP-4000	18.00-32 18.00-33	×	529-5759	Ąŗ	
18.00-33	SP-4000			Use 18.00-32/33		
18.00-49	SP-4000		×	476-6471	AF	
18.4-16.1 18.4-16.1	220A 218A	15-16A	× <b>×</b>	529-1699	ан Ан	
18.4-24	218A	15-24	X	269-7392	АН	061-0499
18.4-26	218A	15-26	×	528-7697	AH	
18.4-28	218A	15-28	X	269-7395	AH	
18.4-30	218A	15-30	×	528-7698	AH	

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Table II (cont.)		Tubes for tire and	≞s used on 1 industria	trucks, trailer	Tubes for tires used on trucks, trailers, earthmoving, agricultural and industrial vehicles and on motor scooters	cultural	
(1) Tube Size	IR Valve	(1) Also fits tire sizes	(2) Valve location Off	re 110n On	NSN 2610-00-	Normal applications (see S7.1)	Replaces WSN's-2610-00-
18.4-34	218A	15-34	×		528-7700	Аŀ	
18.4-38 18.4.42	218A SP-800		×		476-6472	Ari Ar	
19,5-19,5	70		×		476-6473	۶	
20_5-25	SP-4000			×	4 16-64 74	ЪР ТГ	
20_8-38	218A		×		476-6475	Ą	
21.00-24	SP-4000				Use 21.00-24/25		
21.00-24/25	SP-4000	21.00-24 21.00-25		×	204-3617	ь?, AW	051-9614, 051-9622, 269-7733, 446-2489
21.00-25	SP-4000				<b>Use 21.00-24/25</b>		
21.00-29	SP-4000			×	828-9403	λ. Aj	269-7528, 591-2848
21,00-35	SP-4000			×	<b>47</b> 6-6476	AF	
21.00-49	SP-4000			×	476-6477	AF	
23x8.50-12	13CW		×		177-7096	AG	
23x8.50-12	13 875		××		177-7097	AG AG	

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Table II (cont.)		Tubes for tires and	used on trucks, industrial vehicl	Tubes for tires used on trucks, trailers, earthmoving, agricultural and industrial vehicles and on motor scooters	agrıcultural s	Fed. Std. No. 308B
(1) Tube Size	TR Valve	(1) Also fits tire sizes	(2) Valve location Off On	NSN 2610-00-	Normal applications (see S7.1)	Replaces NSN's-2610-00-
23.1-26	218A	18-26 18.00-26	×	528-7701	AH	
23.1-30	218A	18-30 ,	×	476-6480	АН	
23.1-34	218A	18-34	x	431-8346	Ari	
23.5-25	SP-4000		×	529-5760	AF	
24.00-25	SP-4000		×	828-9402	AF, AW	204-0326, 591-2862
24.00-29	SP-4000		×	828-9404	AF, AW	
24.00-32	SP-4000			Use 24.00-32/33	33	
24.00-32/33	SP-4000	24.00-32 24.00-33	×	828-9405	Ar	591-2858, 051 <b>-</b> 9692, <b>051-969</b> 8
24-00-33	SP-4000			Use 24.00-32-33	33	
24.00-35	SP-4000		×	<b>4</b> 766481	ĄP	
24.00-49	<b>SP-4000</b>		×	476-6482	AF	
24-5-32	218A		x	476-6483	AH	
26.5-25	SP-4000		×	529-5761	Ar	

Fed. Std. No. 308B							
Taple II (cont.)		Tubes for tires and i	used on truc ndustrial ve	ks, trailers, hicles and on	Tubes for tires used on trucks, trailers, earthmoving, agricultural and industrial vehicles and on motor scooters	tural	
(1) Tube Size	TR Valve	(1) Also fits tire sizes	(2) Valve location Off (	On S	NSN 2610-00-	Normal applications (see S7.1)	Replaces NSN's-2610-00-
26.5-29	SP-4000			×	476-6484	Ąŗ	
27x8.50-15	1 3CW		×		424-9919	AG	
27.00-33	SF-4000			×	828-9406		529-5762, 591-2852
27-00-49	SP-4000			×	476-6485	AF	
28-1-26	218A		×		165-3906	АН	
29.5-25	SP-4000			×	529-5763	AF	
29.5-29	SP-4000			×	585-4791	ĄF	529-5764, 147-5328
29.5-35	SP-4000	33-25-35		×	140-1160	AF	
30-00-33	SP-4000			x	828-8243	ĄF	
33.25-35	SP-4000				Use 29.5-35		
33-5-33	SP-4000	37_5-33		×	529-57ē5	AF	
33,5-39	SP-4000	37_5-39		x	476-6487	AF	
36_00-41	SP-4000			×	828-9408	AF, AW	591-2855
36.00-51	SP-4000	37.5-51		×	476-6488	AF, AW	

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std.
No.
308B

(1) Tube Size		Table II (cont.)
TR Valve		
(1) Also fits tıre sizes		Tubes for tire and
Valve location Off On	(2)	Tubes for tires used on trucks, trailers, earthmoving, agricuit and industrial vehicles and on motor scooters
NSN 2610-00-		nd on motor scooters
Normal applications (see S7.1)		icui turai
Replaces NSN's-2610-00-		

Tubes for tires used on trucks, trailers, earthmoving, agricultural

Tire size designation is same as tube size designation excepting tire sizes shown in column titled "Also fits tire sizes."
Valve location related to center line of tube.

•

37.5-51

SP-4000

Use 36.00-51

37.5-39

SP-4000

37-5-33

SP-4000

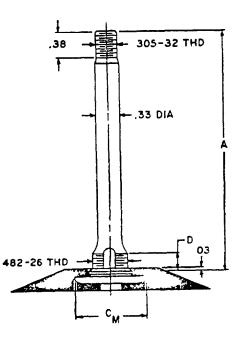
Use 33.5-33

Use 33.5-39

•

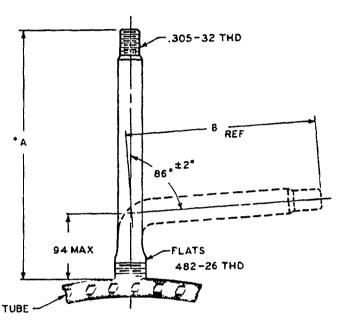
EFFECTIVE DIMENSIONS OF CONVERTIBLE VALVES BEFORE BENDING

TR VALVE	A	C	D+.03
NO.		м	-
75A	3.78	1.06	.25
76A	4.16	1.06	.25
177A	4.53	1.06	.25
77A	4.91	1.06	.25
175A	5.28	1.06	.25
78A	5.78	1.06	.25
179A	6.34	1.06	.25
460	3.78	1.06	. 25
461	4.53	1.06	.25
462	4.91	1.06	.25
463	5.28	1.06	.25
464	5.78	1.06	.25
465	6.34	1.06	.25



NOTE: Valves are also made in two-piece, or interchangeable type. Two-piece valves complete with the base or spud, have the same effective dimensions and carry the same tire and rim association (TR) numbers as the corresponding one-piece valves.

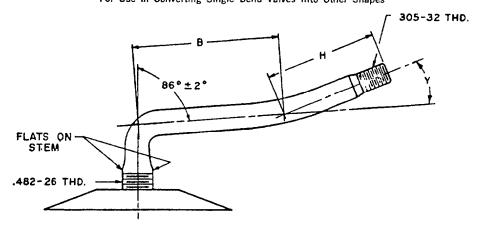
EFFECTIVE DIMENSIONS OF CONVERTIBLE VALVES IN FINISHED TRUCK-BUS TUBES



\*Refer to Page 8-07 for "A" dimension

TR VALVE NO	B (Ref.)
75A	3 00
76A	3 38
177A	3.75
77A	4 13
175A	4.50
78A	5 00
179A	5.56

NOTE Valves are also made in two piece, or interchangeable type. Two piece valves, complete with the base or spud, have the same effective dimensions and carry the same Tire and Rim Association (1R) numbers as the corresponding one-piece valves.



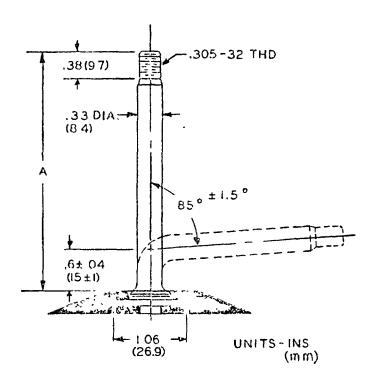
CONVERTIBLE VALVE DIMENSION CHART For Use in Converting Single Bend Valves Into Other Shapes

TOOL SETTING TO PRODUCE ANGLE "Y"

Fool Setting Angle—Y	A 4°	B 11°	16°	D 21°	Е 26°	F 31°	G 36°	 41°	46°	510	- <del>K</del> 56°	- L 61°	M 66°	N 71°	0 76*	-B10	-		
	TOOL SETTING TO PRODUCE LENGTHS "H" AND "B"																		
Tool	Length		LENGTH "B" + .13 0																
Setting	"H"		1R75A		TR76/		TR 177	A	TR:	17A	T	R175A		TR78A		TR179A			
12	1 50		1 50		1 88		2 23		2	63		3 00		3 50		4 06	;		
13	163		1 38		175		2.1	3	2	50		288		3 38		3 94	ī		
14	175		125		1 63		2 00	5	2	38		2 75		325		3 81			
15	1 88		113		T 50		ī 8	5		25		2 63		313	—+	3 69			
16	2 00				1.38		1 75	5	2	13		2.50	-+ -	3 00		3 55			
17	2.13				1 25		1 63	3	2	00		2 38		2 88		3 44			
18	2 25				1 13		150	5 1	1	85		2 25	_	275		3 31			
19	2 38						136	3-1	T	75		2 13		2 63		319			
20	2 50						1 25	5+	1	63		2 00		2 50		3 06			
21	2 63						113	i		50		188		2 38		2 94			
22	2 75									38		175		2 25		281			
23	2.88					-				25		163	-1 -	213		2 69			
24	3 00								1	13		1 50		2 00		2 56			
25	313											1 38		1 88		2 44			
26	325											1 25		175		2 31			
27	3 38	_										1 13		163		2 19			
28	3 50										·   ·			150	+-	200			
29	363													1 38	-  -	194			
30	3 75	-1				-+-								125		10			
31	3 88					+								-1 13-		169			
32	4 00						••••				+					1 56			
33	4 13															1 44			
34	4 25															131			
35	4 38												-+			-1 19			
3	4 50															100			

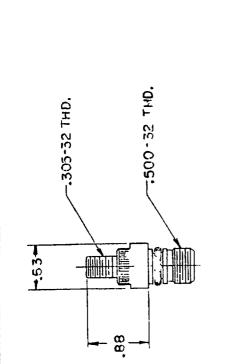
VALVE CONVERTING TOOL WILL NOT PRODUCE LENGTH "B" LESS THAN 1 13"

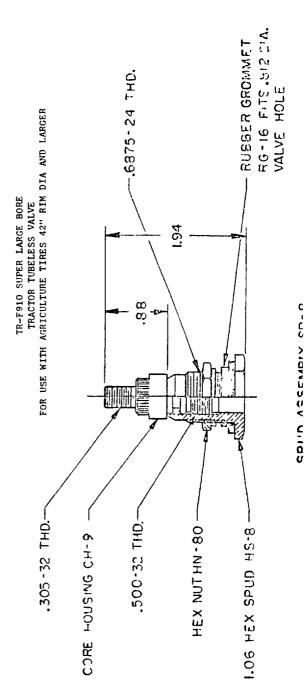
TR 460 SERIES EFFECTIVE DIMENSIONS OF CONVERTIBLE VALVES IN FINISHED TRUCK-BUS TUBES

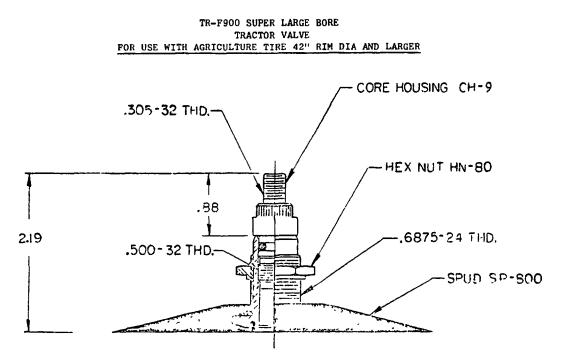


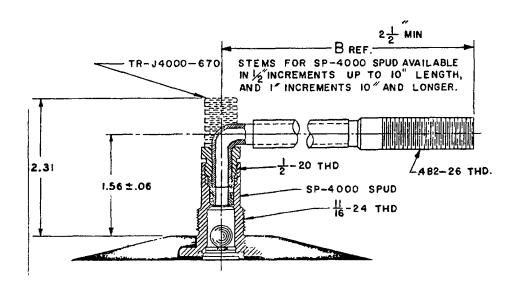
Λ	FOR EQUIV SERVICE TO TR VALVE NO
3.54 (90)	75A
4.13 (105)	1774
4.53 (115)	774
4.92 (125)	1754
5.51 (140)	784
6.10 (155)	1794
	3.54 (90) 4.13 (105) 4.53 (115) 4.92 (125) 5.51 (140)

NOTE Valves are also made in two-piece, or interchangeable type Twopiece valves, complete with the base or spud, have the same effective dimensions and carry the same tire and rim association (TR) numbers as the corresponding one-piece valves.









NOTE: Stems for TR-J650 and TR-J670 Rim Valves can be used interchangeably with SP-4000 and HS-2 Spunds.

Stems for use with SP-4000 Spuds are specified as TR-J4000 (Horizontal length B Ref.) Example: For a dimension (BRef.) of 9%", the stem number is TR-J4000-9%".

	9552		9464	9462		9460		9454	)	9450	1	9362		9356	9334	0666		9066		9266	9234	9224		9216	9210	9204	9182	9148	9130	9126	9120	9114	9110	051-9100	2202	FSN FSN
7-00-24	7.00-24	14.00-20	14.00-20	14.00-20	13.00-20	13.00-20	12.00-20	12.00-20	11.00-20	11.00-20	10.50/11.00-18	10-50/11.00-18	9.00-18	9.00-18	W18/19	V18-19	7.00-17	7.00-17	9.00-16	9.00-16	5.10-16	7.00-15	9.00-15	9.00-15	7.50-15	7.00-15	GS-15	``	5.30/ 4.50-7	4.80/ 4.00-7				2.80/ 2.50-4	azts acht	
460	75A	465	179A	220A	465	179A	464	78A	464	78A	464	78A	463	175A	13	13	460	75A	461	177A	13	150	463	175A	135	15	13	13CW	87	87	87	87	87	87A	Valve	TR
269-7329		6665	6663	6659	266-6650	262-1948		7364	7363	7361	7359		7354	7353		7347		7346		7345		7342		7341	7338		7335	260-7333	0356	227-0354	3617		3016	204-2074	0192	FSN
7.50-15 7.50-15	11.00-22	11-00-22	7.50-18	9-00-16	8.90-15	7.50-10	7-50-24	7.50-24	11.00/12.00-24	8.3 -24	11.2 -28	10.00~15	10.00-15	9.5 -24	8.25-15	8.25-15	7.50-17	7.50-17	10,00-20	10.00-20	10.00-22	10.00-22	10,00-24	10.00-24	4.00-15	8.25-24	8.25-24	5,00-15	14.9 -30	7.50-20	21.00-24/25	7.00-12	7.00-12	7.50-16	Jube size	3
177A 461	464	782	150%	15CW	13	150CW	461	177A	220A	218,4	218A	464	78A	218A	462	77A	460	75.A	464	76A	464	78A	464	78A	15CW	462	77A	15CM	218A	15CW	SP4000	460	75A	135	valve	TR
6886 8826	9887	2002	0001	9884	5886	9882	9881	0886	9879	9878	9877	9876	9875	424-9874	409-7790		4376	4375		4374	4373	4372	4371	4369	4368		4367	4366	4365	405-4364	403-5740	51 66		350-1964	2610	FSN
8.00-16.5 8.5L-14	8.00-16.5		7 00-14	7-00-10	7/8-14.5	4.80/4.00-12	4.60/4.00-12	4.60/4.00-9	4.80/4.00-9	4.10/3.50-6	4.10/3.50-6	3.40/3.00-5	3.40/3.00-5	2.80/2.50-4	18.00-26	8.25-18	B.25-18	7.00-15	7.00-15	7,00-15	9,00-10	5.70/5.00-8	5.30/4.50-12	5-70/5-00-8	16.00-20	8 25~16	8.25-16	9.00-10	7-50-10	6.50-1n	15-19-n	6.00-16	6.50-20	é.50~20	Ture size	
150CW 15CW	15CW	1002			0.05	875	87A	87S	87A	87S	87A	875	87A	875	218A	462	77A	15CW	460	75A	15CW	87A	87A	87S	220A	451	177A	1.25		135	70	15	460	75A	valve	TR

7096 7097	3902 3904 3905 173-5230 177-6891	104-1778 1779 140-1160 142-5139 165-3901	088-9297 088-5996 2626-880	9610 9610 9628 9676 9676 061-0498	9570 9574 9588 9588	FSN 2610 051-9560
G-14 23x8-50-12 23x8-50-12	11x4.00-5 7.00-15 4.10/ 3.50-4 28.1-26 7.50-16 F-14 F-14	4.80/ 4.00-8 4.80/ 4.00-8 29.5-35 10.00-15 11.00-16		14.00-24 14.00-24 16.00-24/25 18.00-24/25 16.9 -30 6.00-14 6.00-14 4.10/ 3.50-4	9.00-24 11.2 -24 11.00-24 11.00-24 11.00-24 11.00/12.00-24 13.00-24 13.00-24	Tute size
13 13CW 87S	13 135 218A 150 13	87A 87S SP4000 15CW 15CW	13 13 87 135	179A 465 SP4000 SP4000 216A 13CW 87	463 218A 218A 78A 464 218A 179A 465	TR Valve 175A
288-3927 294-4321 4325 7639 7640	7397 7402 7408 7758 7758 7760 278-0889	7390 7392 7395	7373 7377 7378 7383	7347 7353 7356 7357 7364	7336 7340 7342 7343 7344 7346	FSN 2610 269-7332
7.50-15 V18-19 K-15 13.6 -38 5.00-16	9.5 -32 6.90/ 6.00-1? 16.9-28 4.00-19 7.50-16 7.50-16 16.00-20/21	9.00-20 12.00-24 12.00-24 18.4 -24 18.4 -28	6.50-16 6.50-16 7.00-16 9.00-20	7.00-20 7.50-20 7.50-20 4.10/ 3.50-5 5.30/ 4.50-12 9.50-20 4.00-9	4.80/ 4.00-12 6.50-16 14.9 -26 7.00-18 7.00-18 7.50-18 7.50-18 7.50-18 7.00-20	Ture size
150 4 13 218A 15C%	218A 13CW 218A 15CV 15CV	463 78A 218A 218A	15 150 150	460 177A 461 87 13CV 13CV	13CV 15CV 218A 460 461 75A	TR Valve 15
	9920 9920	9913 9914 9915 9916	9909 9911 9912	9901 9902 9903 9904 9906 9907		FSN 2610 494_9890
	27x8.50-15 5.10-16	15-22.5 15-22.5 18x9.50-8 18x9.50-8	12.5L-16 13.50-16.1 13.50-16.1 13.9 - 36	11×4.00-5 111-14 111-14 111-15 111-25 11-25-28 12-16-15 12-51-15	6.75-16.5 9.52-16.5 9.52-14 9.52-14 9.50-16.5 9.50-16.5 9.50-16.5	The size
	5. 13. 15.	15C4 13C4 13C4	15CW 15CV 15CV 218A 218A	578 1500 1500 1500 1500 218 A 1500	150CW 218A 150V 150V 150CV 150CV 150CV	i alve

# Numerical index of Federal stock numbers class 2610, identified to tube size and valve com/inations used in this standard.

Fed. Std. No. 308b

7682 13.6-28	7681 13.6-26				7666 11.2-38	7665 11.2-36	7652 9.5-36		7.				06.9 0569					6485 27.00-49					6480 23.1-30																	431-9346 23.1-34	2610 Ture size	FSN
28 218A	26 218A												6.90/6.00-9 87S						29 SP4000		-49 SP4000	-35 SP4000		IS	-35 SP4000		25 SP4000	<del>່</del> ທ	38 218A	-49 SP4000		IS				is .	-24 220A	1 15CW		4 218A		TR
8660	5765	5763	5761	5760	5759		5739		5731		5729	529-1699		7850		7849	7847	7832	7831	7829	7828	7816	7815	7806	7802	7798	7794	7789	7783	7775	7774	7772	7771	7762	7760	7759	7757	7755	7741	528-7732	2610	FSN
4.10/3.50-5	33-5-33	29.5-25	26.5-25	23.5-25	18.00-32/33	10.3-20	10.3-20	10.00-18	10.00-18	9.4-20	9.4-20	15-16A	8.25-20	8.25-20	8.25-17	8.25-17	8-25-16	16.00-16	15.5-38	16.9-24	5-30/4-50-6	13.6-24	11.00-16	7.60-15	6.00-21	5.70/5.00-8	9.00-10	6-90/6.00-9	6.50-10	4.00-36	4-00-18	4.00-12	3 50-12	6-50-36	5.90/6.40-15	6.00-16	5.50-16	11.25-24	10.00-20	7.00-16	Tupe size	
13	SP4000	SP4000	SP4000	SP4000	SP4000	464	78A	464	78A	463	175A	220A	462	77A	462	77A	150	218A	218ª	218A	13	218A	15CW	15CW	15CW	13CW	150CW	13CW	15CW	15CW	171	1501	150%	15CW	1504	15CW	15CW	218A	218A	135	valve	TR
				-					4826	975-4825	900-8636	9831	9174	889-9158	9408	9406	9405	9404	9403	9402	828-8243	0119	0116	0114	0112	826-0111	818-3621	774-9081	764-4421	4589	4583	4581	4575	4572	729-4570	9314	9313	9312	9311	721-9305	2610	FSN
									7.50-15	12-4-24	6.00-16	4.10/3.50-6	4.80/4.00-8	6.90/6.00-9	36.00-41	27.00-33	24.00-32/33	24.00-29	21.00-29	24.00-25	30.00-33	11/12-24.5	11/12-22.5	10-22.5	8/9-22.5	7-22.5	9.5-36	12.4-16	2.80/2.50-4	G-13		8/9-19.5	M-14	P-14	7/8-17.5	6.90/6.00-12	6.90/6.00-12	6.90/6.00-6	6.90/6.00-6	5-30/4-50-12	Tube size	
									15CW	<b>2</b> 18A	150	13	87	87A	SP4000	SP4000	SP4000	SP4000	SP4000	SP4000	SP4000	300	300	300	300	300	15CW	15CW	87	13	4	300	5	13	300	87S	87A	87S	87A	87S	Valve	TR

	7709 7712	7702 7703 7705	7696 7697 7698 7700	7685 7691 7692	FSN 2610 528-7683
	4.80/4.00-8 7.50-15 7.50-15	5-12 5-12 7-16	16.9-34 18.4-26 18.4-30 18.4-34	14.9-24 14.9-26 14.9-38 16.9-36	Tube size 13.6-36
	13CW 75A 460	2180 15CW 15CW	218A 218A 218A 218A 218A	218A 218A 218A 218A	TR valve 218A
2865 684-1899 721-7279 721-7293 9294 9301 9304	4791 591-2859	569-0817 569-0817 585-0831	5678 6611 6613	5669 5673 5675	FSN 2610 555-5666
M-15 5-8 6-16 4.10/3.50-4 4.10/3.50-5 4.10/3.50-5 5.30/4.50-6 5.30/4.50-6	29.5-29 7.50-10 7.50-10	6-16 7.50-10 6.70/7.10-15	11.00-15 11.00-15 M-16 13.00/14.00-24	7.00-15 9.00-24 12.4-36 6.70-15	Tube S12e 7.00-15
13 13 87 87 87 87 87 87 87 87 87 87 87 87 87	SP4000 75A 460	15 15 15CW 15	78A 464 15 220A	461 218A 218A 15CV	TR Valve 177A

**)** 

Fed. Std. No. 309F APPENDIX A Contirued

### BUDGET BUREAU NO. GENERAL SERVICES ADMINISTRATION - FEDERAL SUPPLY SERVICE SPECIFICATION COMMENT SHEET

INSTRUCTIONS

29-R0175

This form provides a way for users of this specification to inform the originator of problems encountered in its use. It is not to be used to request changes to accommodate proprietary features. All comments will be considered and appreciated, but please do not expect a reply. To comment detach, complete, fold, staple, and mail. to: Gen Svcs Admin, FSS (FYS), Washington, DC 2040 NOTE Comments on this form do not constitute or imply authorization to waive any part of the document or serve to amend contractual requirements.

1. SPECIFICATION

Fed. Std. 308B - Inner Tube, Pneumatic Tire

2. CONTRACT NO. (If any)	3. QUANTITY ON CONTRACT (Optional)	4 DOLLAR VALUE (Optional)

5. GENERAL NATURE OF PROBLEM (e.g., inspection difficulties, manufacturers unable to meet tolerances, containers collapse under normal warehousing conditions, etc.)

6. SPECIFIC REQUIREMENTS AFFECTED (Include paragraph number and lines of wording)

7. SPECIFIC PROBLEMS (e.g. tests in 4.2.2 will not assure that the battery will last required time, temperature ranges in table 2 do not conform to commercially available items )

8. RECOMMENDATIONS

9. NAME OF MANUFACTURER, ASSOCIATION, GOVT, AGENCY, ETC.	10 ADDRESS (Number, Street, Gity, State and Zip Code).
11. NAME AND TITLE OF SUBMITTER	12 DATE