

# DATA BOOK

## OFF-THE-ROAD TIRES



## **GENERAL INFORMATION**

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## **RADIAL TIRE**

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## **BIAS TIRE**

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## **O-RING, FLAP, RIM, VALVE, CONVERSION TABLES**

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Due to the constant advance of tire technology, the contents of this data book are subject to change without notice.

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# INTRODUCTION

## 1. Industry Standard

Bridgestone Corporation has developed a wide range of tire patterns and specifications, so that the proper Off-the-Road tire can be matched to any vehicle, service, or operating conditions.

Bridgestone’s Off-the-Road tires are designed and produced to meet the commonly accepted international standards, those set by the TRA (Tire and Rim Association) in the U.S.A., by the ETRTO (European Tire and Rim Technical Organization) in Europe and/or by the JATMA (Japan Automobile Tire Manufacturers’ Association) in Japan\*.

Load capacities, inflation pressures, dimensions such as overall tire diameter and width, as well as the relative rims and tube valves follow these standards.

If a tire is to be used for a purpose other than that for which it is originally intended, please consult Bridgestone Corporation for advice.

\*Where differences exist between the TRA, ETRTO and JATMA standards, Bridgestone selects the most applicable.

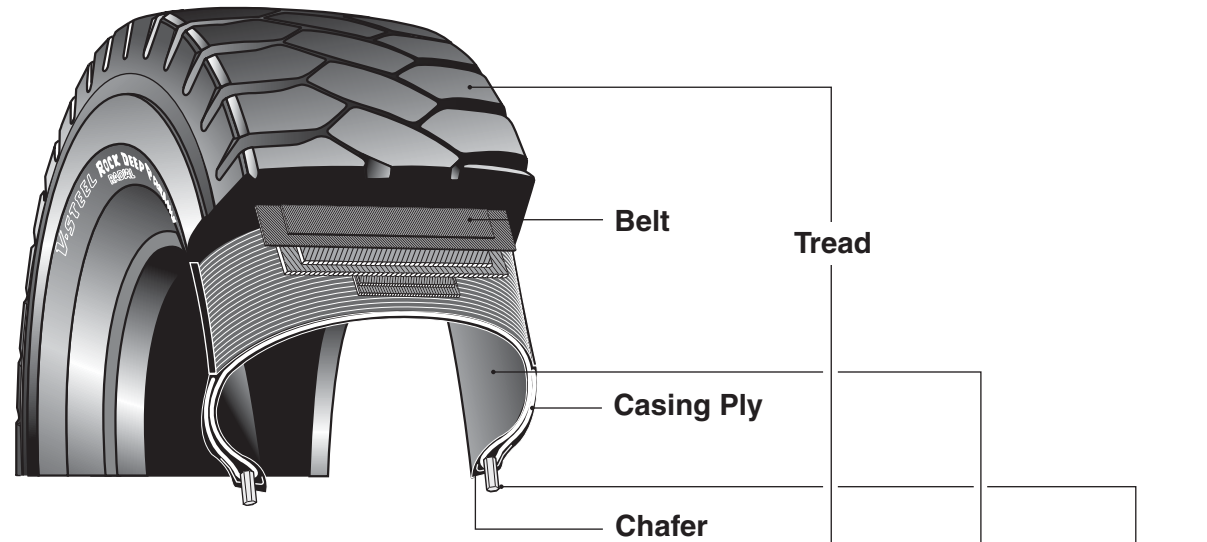
## 2. Application Vehicle Matching Chart

APPLICATION	VEHICLE
Earthmover Service	Dump Trucks, Motor Scrapers, Articulated Dump Trucks, Coal Haulers, Logging Trucks, Other Mining Trucks, etc.
Grader Service	Motor Graders
Loader & Dozer Service	Front-End Loaders, Back-hoe Loaders, Skid Steer Loaders, Dozers, Shuttle Trucks, Load-Haul-Dumps, etc.
High-Speed Service	All-Terrain Cranes, High-Speed Vehicles, etc.
Industrial Service	Straddle Carriers, Aircraft Towing Tractors, Container Stackers, Counter-balanced Lift Trucks, Mobile Crushers, Log Stackers, etc.
Logging Service	Log-Skidders
Compactor Service	Compactor, Road Rollers
Sand Service	Sand Service Trucks

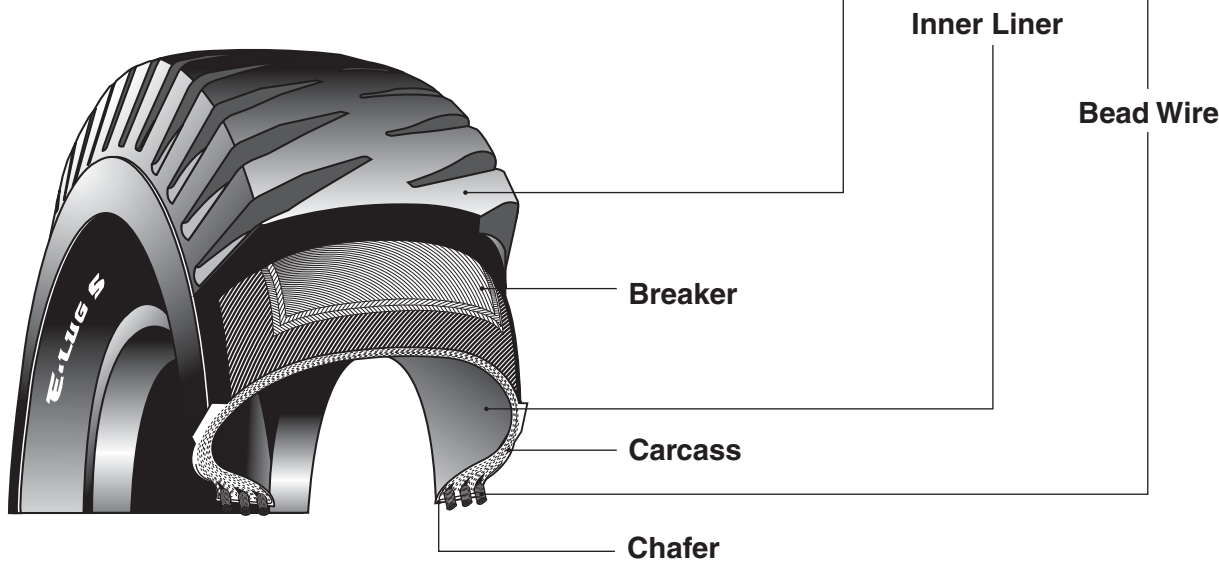
# GENERAL INFORMATION

## 1. Structural Diagram

### Off-The-Road Radial Tire (ORR)



### Off-The-Road Bias Tire (ORS)



## 2. Definitions

### 2.1 Tire Size

The size of each tire is indicated by nominal width and rim diameter in inches and mm.

Radial structure is indicated by the letter "R". For some tire the aspect ratio is indicated by percentage.

#### Example

Radial Tire ; 40.00R57, 33.25R35, 445/95R25

Bias Tire ; 30.00-51, 45/65-45

### 2.2 Star Rating, Ply Rating and Load Index

The load capacity of a tire is indicated by the star rating (in case of radial tire) and the ply rating (in case of bias tire).

The load index is applied in countries where the ETRTO standards are used.

### 2.3 Overall Diameter (OD)

"Overall Diameter" is twice the section height of a new tire, plus the nominal rim diameter, including 24-hour inflation growth.

### 2.4 Overall Width (OW)

"Overall Width" is the width of a new tire, including 24-hour inflation growth, and including protective side ribs, bars or decorations.

### 2.5 Section Width (SW)

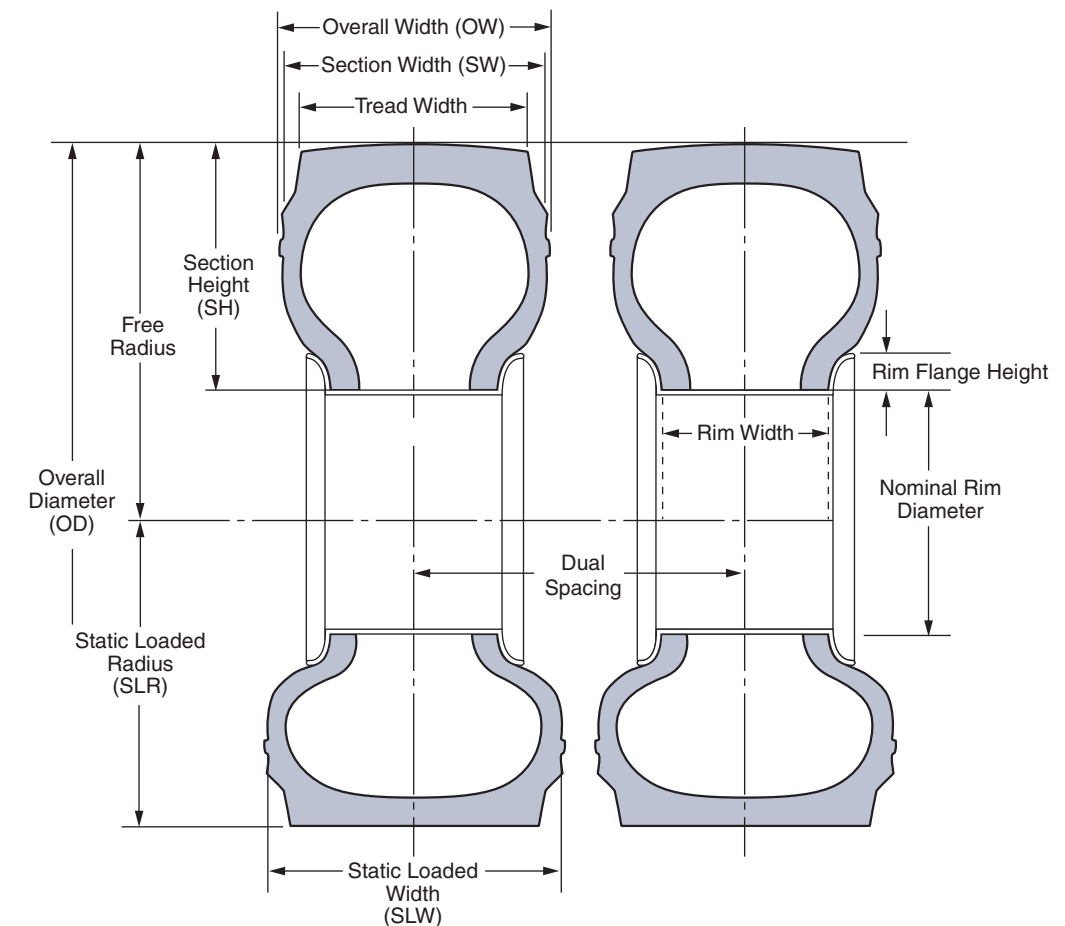
"Section Width" is the width of a new tire, including 24-hour inflation growth and including normal sidewalls, but not including protective side ribs, bars, or decorations.

### 2.6 Static Loaded Radius and Width (SLR, SLW)

"Static Loaded Radius" is the shortest distance from the axle center to the contact surface of a tire and "Static Loaded Width" is the overall width of a tire, mounted on the approved rim at the specified inflation pressure and placed still and vertically on a flat board, and loaded with the specified load.

### 2.7 Original Tread Depth (OTD)

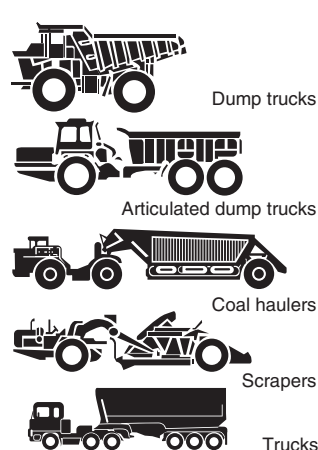

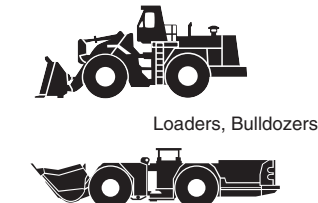
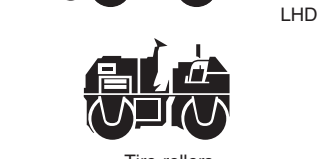

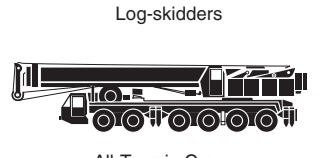
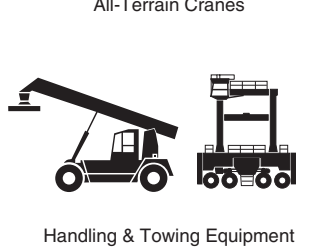
"Original Tread Depth" is the tread depth of a new tire measured at the point of tread-indicator where available or one-fourth the width of the tire crown section from the crown center, including 24-hour inflation growth.



### 3. Classification

#### 3.1 Uses and Characteristics of Off-The-Road Tires

The characteristics that Off-The-Road tires must possess differ according to their function and the type of vehicles they are mounted on.

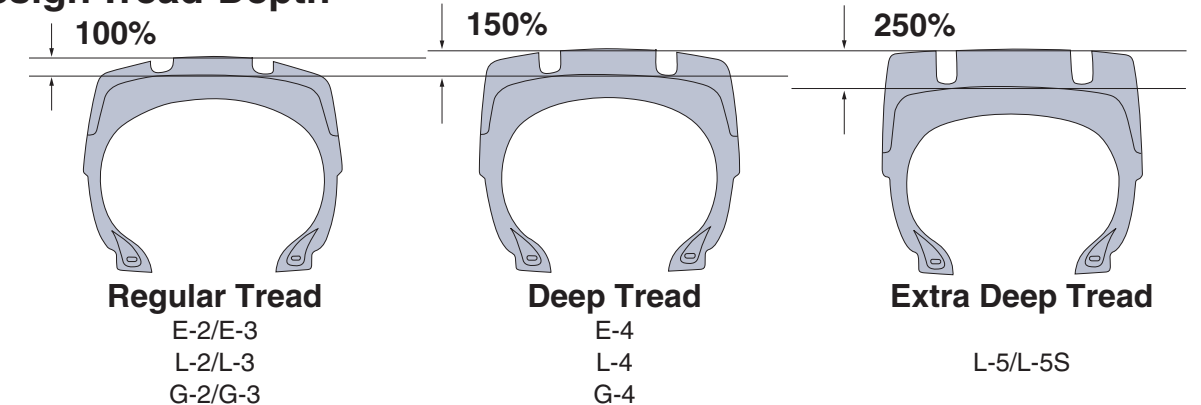
Type/Service	Function	Vehicles	Main tire characteristics required
Earthmover	Transporting		Heat-resistance, Cut-resistance, Wear-resistance, Shock burst-resistance
Grader	Grading, Leveling		Traction, Maneuverability, (directional stability)
Loader and dozer	Loading and dozing		Cut-resistance, Wear-resistance, Stability
Compactor	Compacting		Oil-resistance, Cut-resistance, Wear-resistance
Logging	Log-skidding		Traction, Flotation, Cut-resistance
High-speed	High-speed Travelling		Heat-resistance, Wear-resistance, Traction
Industrial	Handling & Towing		Uneven wear, Wear-resistance, Stability

#### 3.2 TRA Classification and Corresponding Bridgestone Off-The-Road Tires

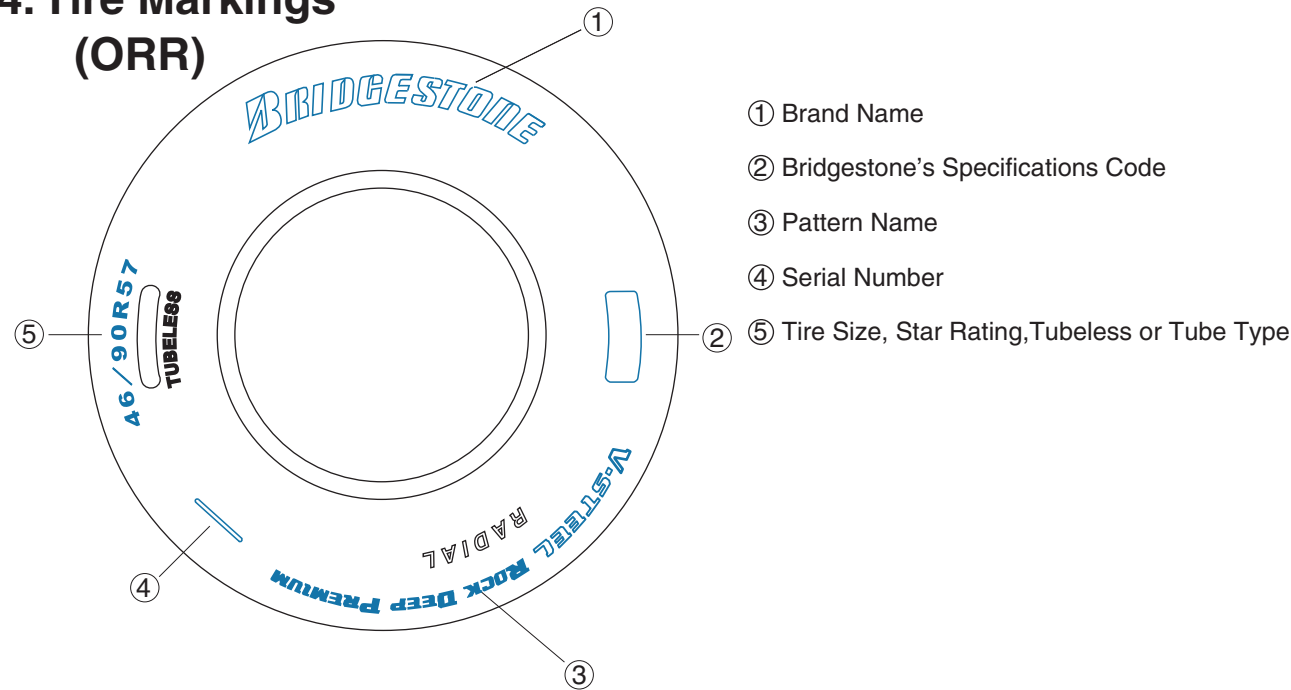
Off-The-Road tires are classified by the TRA as follows, and the names of the tread patterns of the corresponding Bridgestone Off-The-Road tires are described below.

TRA Classification	Tread Type	Bridgestone Tread Pattern	
		Radial	Bias
<b>E= Earthmover (Haulage Service)</b>			
E-2	Traction	VUT VKT VSB VFT VHS VSW	WL RL VL2
E-3	Rock	VEL VRL VRD VRF	
E-4	Rock Deep	L317 VLTS VSNT VMTS VMTP VZTS VZTP VELS VELS VRLS VRDP VRPS VRQP	RLS ELS2
E-7	Flotation	VSJ	SCP2
<b>G=Grader</b>			
G-1	Rib		RG
G-2	Traction	VUT VKT VSW	GL FG
G-3	Rock		RL
G-4	Rock Deep	VMTS	
<b>L=Loader &amp; Dozer (Slow Speed Service)</b>			
L-2	Traction Regular	VUT VKT VSW	GL FG
L-3	Rock Regular	VEL VRL VJT VTS	RL VL2
L-4	Rock Deep	VLTS VSNT VSNL	RLS NL
L-5	Rock Extra-Deep	VSDT VSDL	DL
L-5S	Smooth Extra-Deep	VSMS	STMS
<b>C=Compactor Service</b>			
C-1	Smooth		RR
C-2	Grooved		AL2
<b>LS=Logging Service</b>			
LS-2	Intermediate		TGS
<b>High-Speed Service</b>			
High-Speed Service		VKT VGT VSB VHB VHS VSW	
<b>Industrial Service</b>			
Industrial Service		VHB VEL VCH VCHD VCHS VELS VRLS VSDL VSMS	RL RLS ELS2 STMS YS2

#### Design Tread-Depth



## 4. Tire Markings (ORR)



### 4.1 Type of Tire Size Designation

**Regular** 27.00 R 49 ☆ ☆

- Section Width (inches)
- Rim Diameter (inches)
- Radial Structure
- Star Rating

**Wide Base** 33.25 R 35 ☆ ☆

- Section Width (inches)
- Rim Diameter (inches)
- Radial Structure
- Star Rating

**Super Wide Base** 40 / 65 - 39 30PR

- Section Width (inches)
- Aspect Ratio 65 Series
- Rim Diameter (inches)
- Ply Rating

170 E 385 / 95 R 24

- Section Width (mm)
- Aspect Ratio 95 Series
- Rim Diameter (inches)
- Radial Structure
- Speed Symbol
- Load Index

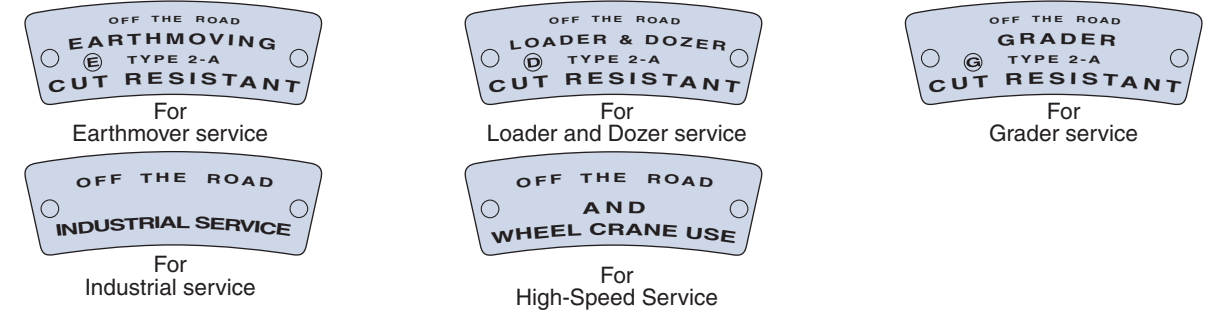
**\* Tire Aspect Ratio**

$\frac{SH}{SW} = 0.95$   
 $\frac{SH}{SW} = 0.80$   
 $\frac{SH}{SW} = 0.65$

\* SH, SW : See Page 3

## 4.2 Type of Tire Structures Classified by Service and Designated by Bridgestone

Each Bridgestone tire has a Bridgestone code number on the tire sidewall according to its specifications.



### Tire Structures Classified by Type of Service and Bridgestone's Designations

Service	BS Code No.	Structure
Earthmover Service (E)	1A	Standard
	2A	Cut-resistant
	3A	Heat-resistant
Grader Service (G)	1A	Standard
	2A	Cut-resistant
Loader & Dozer Service (D)	2A	Cut-resistant
	2V*	Special cut-resistant (Type "V")
Logging Service (S)	2Z*	Special cut-resistant (Type "Z")
	2V	**Standard

NOTES: \*Bias Tire Only

\*\*2V tires are standard for log skidder service since the possibility of the cutting is high in log skidder operations.

**D 2 A**

- Structure:
  - A: Standard
  - V: Cut-resistant type "V" (Steel Breaker)
  - Z: Cut-resistant type "Z" (Side Steel Breaker)
- Characteristics:
  - 1: Standard
  - 2: Cut-resistant
  - 3: Heat-resistant
- Type of Service:
  - E: Earthmover
  - G: Grader
  - D: Loader & Dozer
  - S: Logging

**Steel Breaker Tire**

**Type V**

Steel breaker construction

**Type Z**

Side steel breaker construction

### Steel Breaker Bias Tire

Steel Breaker Off-the-Road tires feature breaker material which is changed from nylon to steel in order to resist cutting and cut bursting. Bridgestone Steel Breaker Off-the-Road tires are widely used on loaders at mining and quarry sites, loaders and shuttle trucks in underground mines, and also on log loaders.

### Side Steel Breaker Bias Tire

In this tire the steel breaker extends to the sidewall of the tire to protect it against damage. The construction is similar to that described above.

### 4.3 Load Index

The LOAD INDEX is an international numerical code for the maximum load a tire can carry at the speed indicated by its speed symbol under service conditions specified by Bridgestone.

LI	kg	LI	kg	LI	kg	LI	kg	LI	kg	LI	kg
0	45	50	190	100	800	150	3 350	200	14 000	250	60 000
1	46.2	51	195	101	825	151	3 450	201	14 500	251	61 500
2	47.5	52	200	102	850	152	3 550	202	15 000	252	63 000
3	48.7	53	206	103	875	153	3 650	203	15 500	253	65 000
4	50	54	212	104	900	154	3 750	204	16 000	254	67 000
5	51.5	55	218	105	925	155	3 875	205	16 500	255	69 000
6	53	56	224	106	950	156	4 000	206	17 000	256	71 000
7	54.5	57	230	107	975	157	4 125	207	17 500	257	73 000
8	56	58	236	108	1 000	158	4 250	208	18 000	258	75 000
9	58	59	243	109	1 030	159	4 375	209	18 500	259	77 500
10	60	60	250	110	1 060	160	4 500	210	19 000	260	80 000
11	61.5	61	257	111	1 090	161	4 625	211	19 500	261	82 500
12	63	62	265	112	1 120	162	4 750	212	20 000	262	85 000
13	65	63	272	113	1 150	163	4 875	213	20 600	263	87 500
14	67	64	280	114	1 180	164	5 000	214	21 200	264	90 000
15	69	65	290	115	1 215	165	5 150	215	21 800	265	92 500
16	71	66	300	116	1 250	166	5 300	216	22 400	266	95 000
17	73	67	307	117	1 285	167	5 450	217	23 000	267	97 500
18	75	68	315	118	1 320	168	5 600	218	23 600	268	100 000
19	77.5	69	325	119	1 360	169	5 800	219	24 300	269	103 000
20	80	70	335	120	1 400	170	6 000	220	25 000	270	106 000
21	82.5	71	345	121	1 450	171	6 150	221	25 750	271	109 000
22	85	72	355	122	1 500	172	6 300	222	26 500	272	112 000
23	87.5	73	365	123	1 550	173	6 500	223	27 250	273	115 000
24	90	74	375	124	1 600	174	6 700	224	28 000	274	118 000
25	92.5	75	387	125	1 650	175	6 900	225	29 000	275	121 000
26	95	76	400	126	1 700	176	7 100	226	30 000	276	125 000
27	97	77	412	127	1 750	177	7 300	227	30 750	277	128 000
28	100	78	425	128	1 800	178	7 500	228	31 500	278	132 500
29	103	79	437	129	1 850	179	7 750	229	32 500	279	136 000
30	106	80	450	130	1 900	180	8 000	230	33 500		
31	109	81	462	131	1 950	181	8 250	231	34 500		
32	112	82	475	132	2 000	182	8 500	232	35 500		
33	115	83	487	133	2 060	183	8 750	233	36 500		
34	118	84	500	134	2 120	184	9 000	234	37 500		
35	121	85	515	135	2 180	185	9 250	235	38 750		
36	125	86	530	136	2 240	186	9 500	236	40 000		
37	128	87	545	137	2 300	187	9 750	237	41 250		
38	132	88	560	138	2 360	188	10 000	238	42 500		
39	136	89	580	139	2 430	189	10 300	239	43 750		
40	140	90	600	140	2 500	190	10 600	240	45 000		
41	145	91	615	141	2 575	191	10 900	241	46 250		
42	150	92	630	142	2 650	192	11 200	242	47 500		
43	155	93	650	143	2 725	193	11 500	243	48 750		
44	160	94	670	144	2 800	194	11 800	244	50 000		
45	165	95	690	145	2 900	195	12 150	245	51 500		
46	170	96	710	146	3 000	196	12 500	246	53 000		
47	175	97	730	147	3 075	197	12 850	247	54 500		
48	180	98	750	148	3 150	198	13 200	248	56 000		
49	185	99	775	149	3 250	199	13 600	249	58 000		

### 4.4 Speed Symbol

The SPEED SYMBOL indicates the speed at which the tire can carry a load corresponding to its load index under service conditions specified by Bridgestone.

Speed Symbol	Speed (km/h)
A1	5
A2	10
A3	15
A4	20
A5	25
A6	30
A7	35
A8	40

Speed Symbol	Speed (km/h)
B	50
C	60
D	65
E	70
F	80
G	90

### 4.5 Conversion Table: Star Rating to Ply Rating

Service	Tire Size	Star Rating	Corresponding Ply Rating	
Earthmover	12.00R24	***	up to 24	
	14.00R24	***	up to 32	
	14.00R25	***	up to 32	
	16.00R25	**	up to 36	
	18.00R25	*	up to 24	
			**	up to 36
	18.00R33	**	up to 40	
	21.00R33	**	up to 36	
	21.00R35	**	up to 44	
	24.00R35	**	up to 48	
	24.00R49	**	up to 48	
	27.00R49	**	up to 54	
	30.00R51	**	up to 58	
	33.00R51	**	up to 64	
	36.00R51	**	up to 66	
	40.00R57	**	up to 74	
	17.5R25	*	up to 16	
	20.5R25	*	up to 24	
			**	up to 28
	25/65R25	**	up to 32	
	23.5R25	*	up to 24	
			**	up to 32
	26.5R25	**	up to 32	
	29.5R25	**	up to 34	
	29.5R29	**	up to 40	
	33.25R29	**	up to 44	
	33.25R35	**	up to 44	
37.25R35	**	up to 48		
37.5R39	**	up to 52		
40.5/75R39	**	up to 54		

Service	Tire Size	Star Rating	Corresponding Ply Rating
Grader	14.00R24	*	up to 16
	16.00R24	*	up to 16
	17.5R25	*	up to 16
Loader	15.5R25	*	up to 16
	17.5R25	*	up to 16
	20.5R25	*	up to 24
		**	up to 28
	23.5R25	*	up to 24
		**	up to 32
	26.5R25	*	up to 24
		**	up to 36
	29.5R25	*	up to 28
		**	up to 34
	29.5R29	*	up to 34
35/65R33	*	up to 36	
45/65R45	*	up to 50	

Note: Due to the practice of altering inflation pressure to improve flotation on sand, Bridgestone does not apply a star rating to tire size 21.00R25 VSJ.

# RADIAL TIRE

## 1. Tread Designs

### ■ Earthmover Service

#### E2



V-STEEL  
ULTRA TRACTION  
(VUT)



V-STEEL  
K-TRACTION  
(VKT)



V-STEEL  
S-BLOCK  
(VSB)

#### E2



V-STEEL  
F-TRACTION  
(VFT)



V-STEEL  
H-SERVICE  
(VHS)



V-STEEL  
SNOW WEDGE  
(VSW)

#### E3



V-STEEL  
L-TRACTION  
(VLT)



Wide Base Regular  
V-STEEL M-TRACTION  
(VMT)



V-STEEL  
TRACTION-STABILITY  
(VTS)

## 4.6 Size Conversion Table

Metric	Inch
385/95R24, 25	14.00R24, 25
445/95R24, 25	16.00R24, 25
445/80R25	17.5R25
505/95R25	18.00R25
525/80R25	20.5R25
750/65R25	30/65R25

## 4.7 Dual Specification Codes

Some Bridgestone Off-The-Road Tires have dual specification codes which can be used for both services.

Combination	Construction	Size Designation
Loader & Dozer Service + Earthmover Service	Radial	26.5R25 MS* VLT T DE2 *1 D2A *2 E2A
	Bias	26.5 - 25 20 VL2 T DE2 D2A E2A
Loader & Dozer Service + Grader Service	Bias	17.5 - 25 12 FG T DG2 D2A G2A
Earthmover Service + Grader Service	Radial	17.5R25 *1 VKT T EG2 E2A G2A

### \* Multiple Star Rating

Bridgestone Radial Tires marked with "LOADER & DOZER \*(one star)" and "EARTHMOVER \*\*(two star)" have specified load capacity on each servicing condition.

Strength of tire casing is designed to constrain inflation pressure used.  
<26.5R25 as an example>

Type of Service	Star Rating	Inflation Pressure	Load (Load Index)	Speed (Speed Symbol)
Loader	*(one star)	5.00 bar	15,000 kgs (202)	10 km/hour (A2)
Earthmover	** (two stars)	5.25 bar	11,500 kgs (190)	50 km/hour (B)

### Description on Tire Sidewall



### E3



V-STEEL  
E-LUG  
(VEL)



Wide Base Regular  
V-STEEL R-LUG  
(VRL)



V-STEEL  
ROCK DEEP  
(VRD)



V-STEEL  
ROCK FAST  
(VRF)

### E4



L317



V-STEEL  
L-TRACTION S  
(VLTS)



V-STEEL  
N-TRACTION  
(VSNT)



V-STEEL  
M-TRACTION S  
(VMTS)



V-STEEL  
M-TRACTION  
PREMIUM (VMTP)

### E4



V-STEEL  
Z-TRACTION S  
(VZTS)



V-STEEL  
Z-TRACTION  
PREMIUM (VZTP)



37.00R57  
40.00R57  
VELSL



18.00R25~  
21.00R35 40.00R57  
50/90R57 31/90R49  
46/90R57  
V-STEEL E-LUG S (VELS)

### E4



14.00R24~16.00R25



21.00R33~37.00R57



53/80R63

V-STEEL R-LUG S (VRLS)

### E4



V-STEEL  
ROCK DEEP  
PREMIUM (VRDP)



V-STEEL  
ROCK PREMIUM  
SERVICE (VRPS)



V-STEEL  
ROCK QUARRY  
PREMIUM (VRQP)



V-STEEL  
JAMAL  
(VSJ)

### Sand Service

### E7

### Grader Service

### G2



V-STEEL  
U-TRACTION  
(VUT)



V-STEEL  
K-TRACTION  
(VKT)



V-STEEL  
SNOW WEDGE  
(VSW)

### G4



V-STEEL  
M-TRACTION S  
(VMTS)

■ Loader & Dozer Service

L2



V-STEEL  
U-TRACTION  
(VUT)



V-STEEL  
K-TRACTION  
(VKT)



V-STEEL  
SNOW WEDGE  
(VSW)



V-STEEL  
L-TRACTION  
(VLT)



V-STEEL  
M-TRACTION  
(VMT)

L3

■ Industrial Service



V-STEEL  
H-BLOCK  
(VHB)



V-STEEL  
HIGHWAY SERVICE  
(VHS)



V-STEEL  
SNOW WEDGE  
(VSW)



V-STEEL  
H-BLOCK  
(VHB)



V-STEEL  
E-LUG  
(VEL)

L3

L4



V-STEEL  
J-TRACTION  
(VJT)



V-STEEL  
TRACTION-STABILITY  
(VTS)



V-STEEL  
L-TRACTION S  
(VLTS)



V-STEEL  
N-TRACTION  
(VSNT)



V-STEEL  
N-LUG  
(VSNL)



V-STEEL  
CONTAINER  
HANDLER  
(VCH)



V-STEEL  
CONTAINER  
HANDLER DEEP  
(VCHD)



V-STEEL  
CONTAINER HANDLER  
STABILITY AND SAFETY  
(VCHS)

■ High-Speed Service

L5

L5S



V-STEEL  
SUPER-DEEP  
TRACTION (VSDT)  
V-STEEL  
D-LUG  
(VSDL)



V-STEEL SMOOTH  
TREAD-MS  
(VSMS)



V-STEEL  
K-TRACTION  
(VKT)



V-STEEL  
G-TRACTION  
(VGT)



V-STEEL  
S-BLOCK  
(VSB)



V-STEEL  
E-LUG S  
(VELS)



V-STEEL  
R-LUG S  
(VRLS)



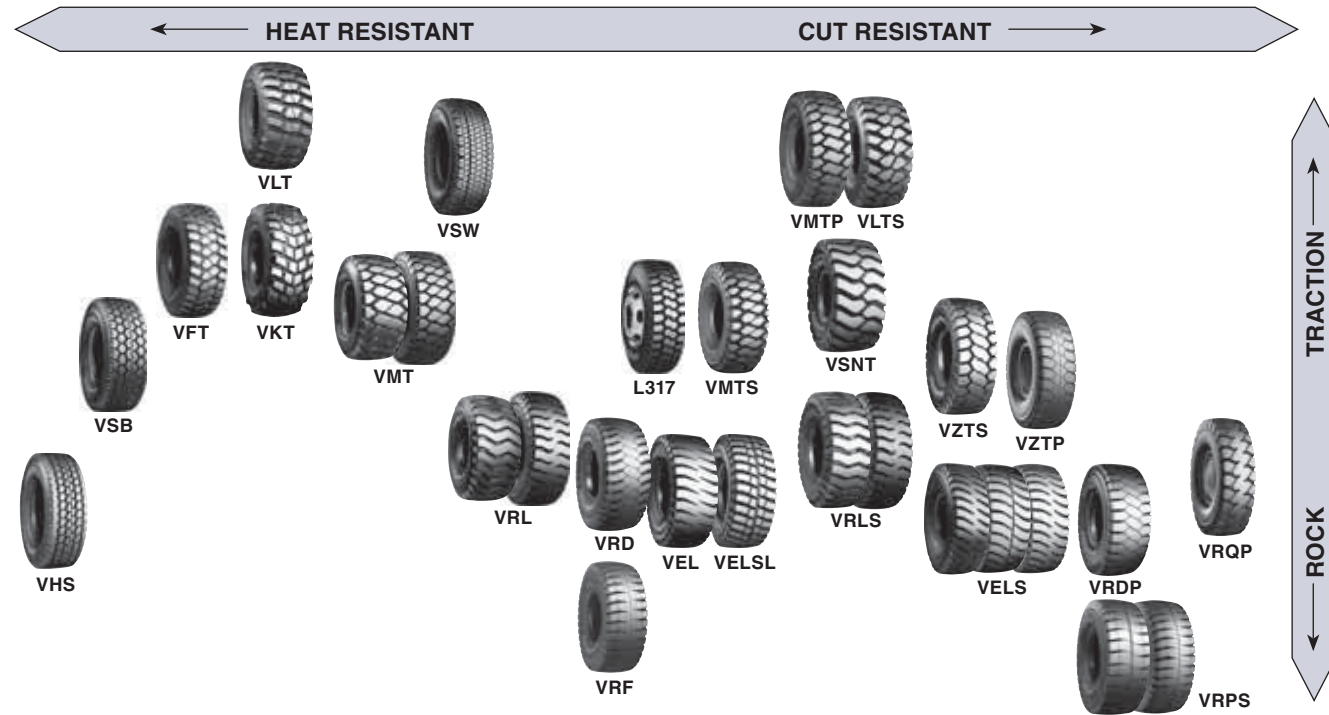
V-STEEL  
D-LUG  
(VSDL)



V-STEEL  
SMOOTH TREAD-MS  
(VSMS)

## 2. Application

### Earthmover Service



Size	Type	Star Rating
<b>VUT(E2)</b>		
335/80 R 20	T/L	
365/80 R 20	T/L	
405/70 R 20	T/L	

Size	Type	Star Rating
<b>VKT(E2)</b>		
14.00 R 24	T/T	★3
17.5 R 25	T/L	★1
18.00 R 25	T/L	★2
20.5 R 25	T/L	★2
23.5 R 25	T/L	★2
25/65 R 25	T/L	★2
26.5 R 25	T/L	★2
29.5 R 25	T/L	★2
29.5 R 29	T/L	★2
37.5 R 39	T/L	★2

Size	Type	Star Rating
<b>VSB(E2)</b>		
14.00 R 24	T/T	★3
14.00 R 25	T/L	★3

Size	Type	Star Rating
<b>VFT(E2)</b>		
18.00 R 33	T/L	★2
24.00 R 49	T/L	★2
27.00 R 49	T/L	★2

Size	Type	Star Rating
<b>VHS(E2)</b>		
30.00 R 51	T/L	★2
36.00 R 51	T/L	★2

Size	Type	Star Rating
<b>* VSW(E2)</b>		
20.5 R 25	T/L	MS
23.5 R 25	T/L	MS

Size	Type	Star Rating
<b>VLT(E3)</b>		
20.5 R 25	T/L	MS
23.5 R 25	T/L	MS
750/65(30/65) R 25	T/L	MS
26.5 R 25	T/L	MS
29.5 R 25	T/L	MS
33.25 R 29	T/L	★2
37.25 R 35	T/L	★2
40.5/75 R 39	T/L	★2

Size	Type	Star Rating
<b>VTS(E3)</b>		
875/65 R 29	T/L	MS

Size	Type	Star Rating
<b>VMT(E3)</b>		
17.5 R 25	T/L	★2
23.5 R 25	T/L	★2
29.5 R 25	T/L	★2
30.00 R 51	T/L	★2
33.00 R 51	T/L	★2
40.00 R 57	T/L	★2

Size	Type	Star Rating
<b>VEL(E3)</b>		
18.00 R 25	T/L	★2
18.00 R 33	T/L	★2
21.00 R 35	T/L	★2
24.00 R 35	T/L	★2

Size	Type	Star Rating
<b>VRL(E3)</b>		
29.5 R 35	T/L	★2
33.25 R 35	T/L	★2
37.25 R 35	T/L	★2
40.5/75 R 39	T/L	★2
27.00 R 49	T/L	★2

Size	Type	Star Rating
<b>VRD(E3)</b>		
59/80 R 63	T/L	★2

Size	Type	Star Rating
<b>VRF(E3)</b>		
53/80 R 63	T/L	★2
59/80 R 63	T/L	★2

Size	Type	Star Rating
<b>L317(E4)</b>		
11.00 R 20	T/T	★3
12.00 R 20	T/T	★3
12 R 22.5	T/L	★3
12.00 R 24	T/T	★3

Size	Type	Star Rating
<b>VLTS(E4)</b>		
20.5 R 25	T/L	MS
23.5 R 25	T/L	MS
750/65(30/65) R 25	T/L	★2
26.5 R 25	T/L	★2
29.5 R 25	T/L	★2

Size	Type	Star Rating
<b>VSNT(E4)</b>		
26.5 R 25	T/L	MS
29.5 R 25	T/L	MS
29.5 R 29	T/L	MS
35/65 R 33	T/L	MS

Size	Type	Star Rating
<b>VMTS(E4)</b>		
14.00 R 24	T/T	★3
14.00 R 25	T/L	★3
16.00 R 25	T/L	★2
18.00 R 25	T/L	★2
18.00 R 33	T/L	★2
21.00 R 35	T/L	★2
24.00 R 35	T/L	★2
27.00 R 49	T/L	★2

Size	Type	Star Rating
<b>VMTP(E4)</b>		
12.00 R 24	T/T	★3
18.00 R 33	T/L	★2
21.00 R 33	T/L	★2
21.00 R 35	T/L	★2
24.00 R 35	T/L	★2

Size	Type	Star Rating
<b>VMTP(E4) (continued)</b>		
24.00 R 49	T/L	★2
27.00 R 49	T/L	★2
33.00 R 51	T/L	★2

Size	Type	Star Rating
<b>VZTS(E4)</b>		
37.00 R 57	T/L	★2
40.00 R 57	T/L	★2

Size	Type	Star Rating
<b>VZTP(E4)</b>		
46/90 R 57	T/L	★2

Size	Type	Star Rating
<b>VELSL(E4)</b>		
37.00 R 57	T/L	★2
40.00 R 57	T/L	★2

Size	Type	Star Rating
<b>VELS(E4)</b>		
18.00 R 25	T/L	★2
18.00 R 33	T/L	★2
21.00 R 35	T/L	★2
31/90 R 49	T/L	★2
40.00 R 57	T/L	★2
46/90 R 57	T/L	★2
50/90 R 57	T/L	★2

Size	Type	Star Rating
<b>VRLS(E4)</b>		
14.00 R 24	T/T	★3
14.00 R 25	T/L	★3
16.00 R 25	T/L	★2
21.00 R 33	T/L	★2
	T/T	★2

Size	Type	Star Rating
<b>VRLS(E4) (continued)</b>		
24.00 R 35	T/L	★2
24.00 R 49	T/L	★2
27.00 R 49	T/L	★2
30.00 R 51	T/L	★2
33.00 R 51	T/L	★2
36.00 R 51	T/L	★2
37.00 R 57	T/L	★2
53/80 R 63	T/L	★2

Size	Type	Star Rating
<b>VRDP(E4)</b>		
27.00 R 49	T/L	★2
33.00 R 51	T/L	★2
42/90 R 57	T/L	★2
40.00 R 57	T/L	★2
46/90 R 57	T/L	★2
53/80 R 63	T/L	★2
59/80 R 63	T/L	★2

Size	Type	Star Rating
<b>VRPS(E4)</b>		
<b>NEW</b> 40.00 R 57	T/L	★2
46/90 R 57	T/L	★2
50/90 R 57	T/L	★2
53/80 R 63	T/L	★2
<b>NEW</b> 59/80 R 63	T/L	★2

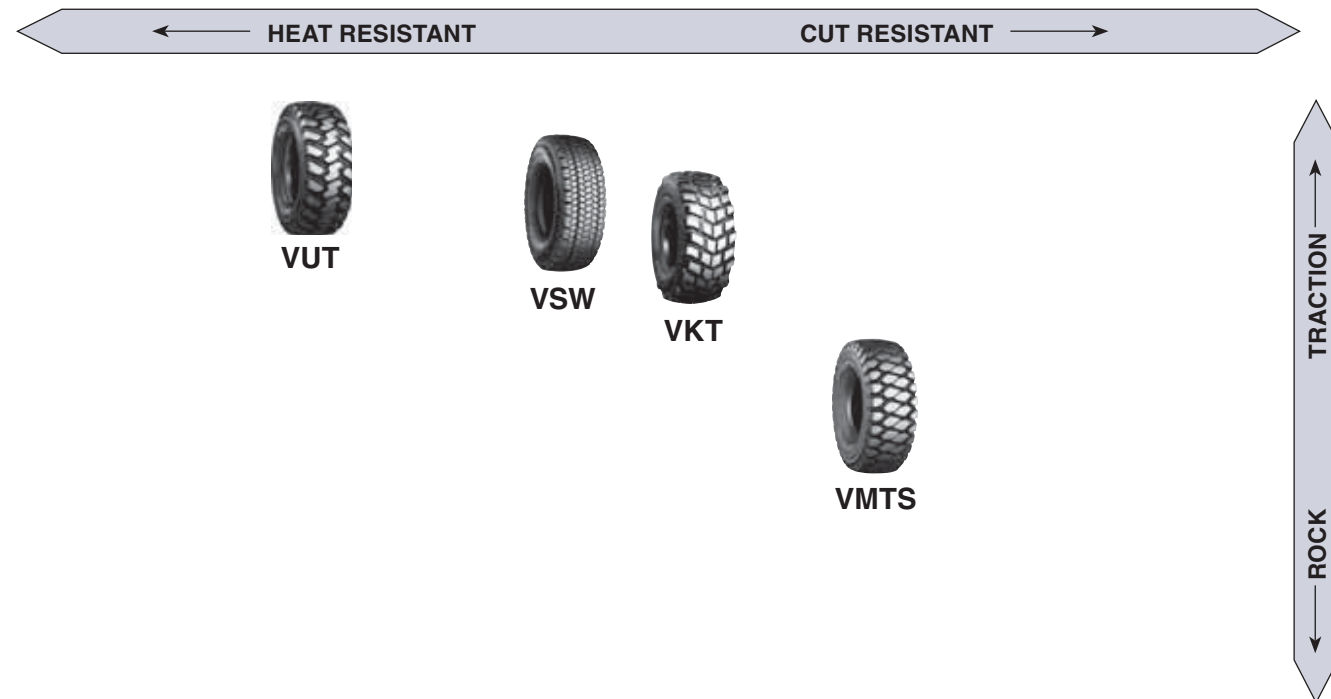
Size	Type	Star Rating
<b>VRQP(E4)</b>		
18.00 R 33	T/L	★2
24.00 R 35	T/L	★2

T/T: Tube Type T/L: Tubeless Type  
MS: Multiple Star Rating

\* VSW is especially designed for snow surface operations.

T/T: Tube Type T/L: Tubeless Type  
MS: Multiple Star Rating

## Grader Service



Size	Type	Star Rating
------	------	-------------

### VUT(G2)

13.00 R 24 TG	T/L	★1
14.00 R 24 TG	T/L	★1
15.5 R 25	T/L	★1★2
17.5 R 25	T/L	★1
20.5 R 25	T/L	★1
23.5 R 25	T/L	★1

### VKT(G2)

14.00 R 24 TG	T/L	★1
16.00 R 24 TG	T/L	★1
17.5 R 25	T/L	★1

### \* VSW(G2)

14.00 R 24 TG	T/L	★1★3
16.00 R 24 TG	T/L	★1
17.5 R 25	T/L	★1

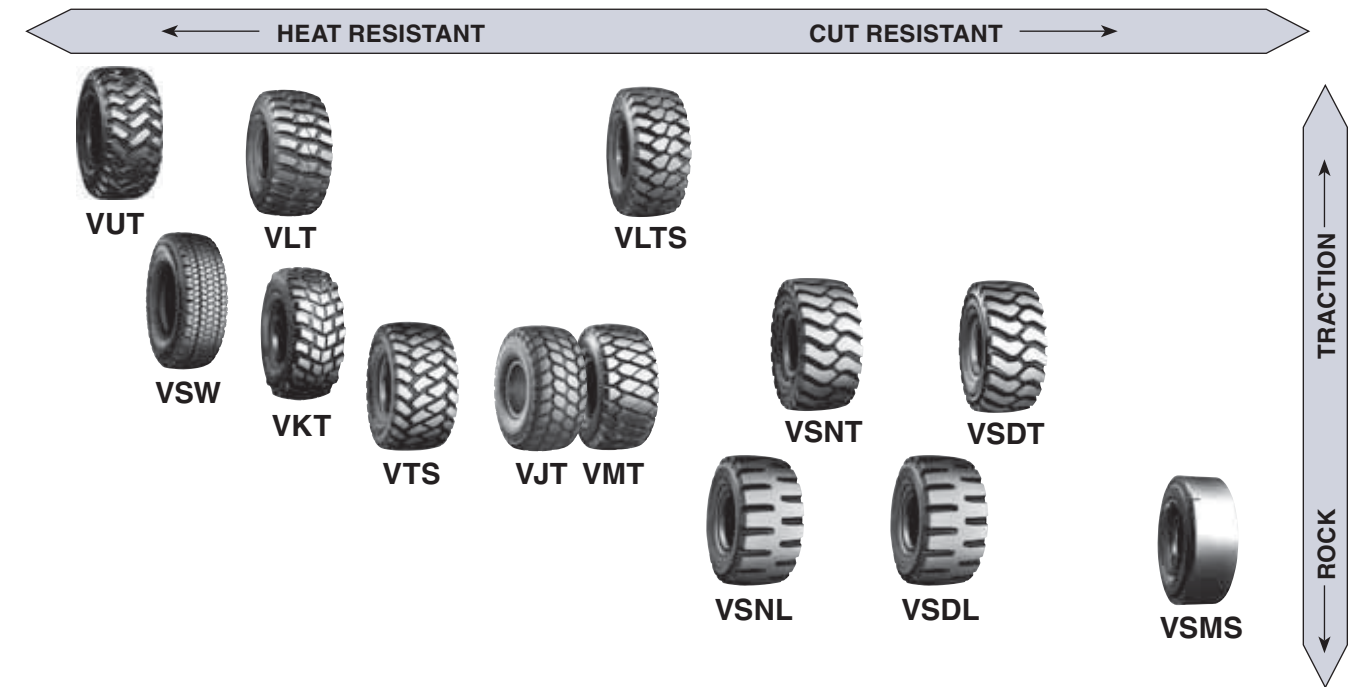
### VMTS(G4)

14.00 R 24 TG	T/L	★1
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\* VSW is especially designed for snow surface operations.

T/T: Tube Type  
T/L: Tubeless Type  
TG: For Semi-Drop Center Rim

## Loader & Dozer Service



Size	Type	Star Rating
------	------	-------------

### VUT(L2)

335/80 R 20	T/L	
365/80 R 20	T/L	
405/70 R 20	T/L	
15.5 R 25	T/L	★1★2
17.5 R 25	T/L	★1
20.5 R 25	T/L	★1
23.5 R 25	T/L	★1

### VKT(L2)

14.00 R 24 TG	T/L	★1
15.5 R 25	T/L	★1
17.5 R 25	T/L	★1
20.5 R 25	T/L	★1
23.5 R 25	T/L	★1
26.5 R 25	T/L	★1★2

### \* VSW(L2)

14.00 R 24 TG	T/L	★1
17.5 R 25	T/L	★1
20.5 R 25	T/L	MS
23.5 R 25	T/L	MS

### VLT(L3)

20.5 R 25	T/L	MS
23.5 R 25	T/L	MS
750/65(30/65) R 25	T/L	MS
26.5 R 25	T/L	MS
29.5 R 25	T/L	MS

T/T: Tube Type  
T/L: Tubeless Type  
MS: Multiple Star Rating  
TG: For Semi-Drop Center Rim

\* VSW is especially designed for snow surface operations.

Size	Type	Star Rating
------	------	-------------

### VMT(L3)

17.5 R 25	T/L	★1★2
20.5 R 25	T/L	★1
23.5 R 25	T/L	★1★2
26.5 R 25	T/L	★1★2
29.5 R 25	T/L	★1

### VJT(L3)

20.5 R 25	T/L	★1
23.5 R 25	T/L	★1
26.5 R 25	T/L	MS

### VTS(L3)

550/65 R 25	T/L	★1
650/65 R 25	T/L	★1
750/65 R 25	T/L	★1
775/65 R 29	T/L	★1
875/65 R 29	T/L	★1

### VLTS(L4)

20.5 R 25	T/L	MS
23.5 R 25	T/L	MS

### VSNT(L4)

26.5 R 25	T/L	MS ★2
29.5 R 25	T/L	MS ★2
29.5 R 29	T/L	MS ★2
35/65 R 33	T/L	MS ★2

### VSNL(L4)

14.00 R 20	T/T	★2
35/65 R 33	T/L	★2
45/65 R 45	T/L	★2

T/T: Tube Type  
T/L: Tubeless Type  
MS: Multiple Star Rating  
TG: For Semi-Drop Center Rim

\* VSW is especially designed for snow surface operations.

Size	Type	Star Rating
------	------	-------------

### VSNT(L5)

23.5 R 25	T/L	★1★2
26.5 R 25	T/L	★1★2
29.5 R 25	T/L	★1★2
29.5 R 29	T/L	★1★2
35/65 R 33	T/L	★1

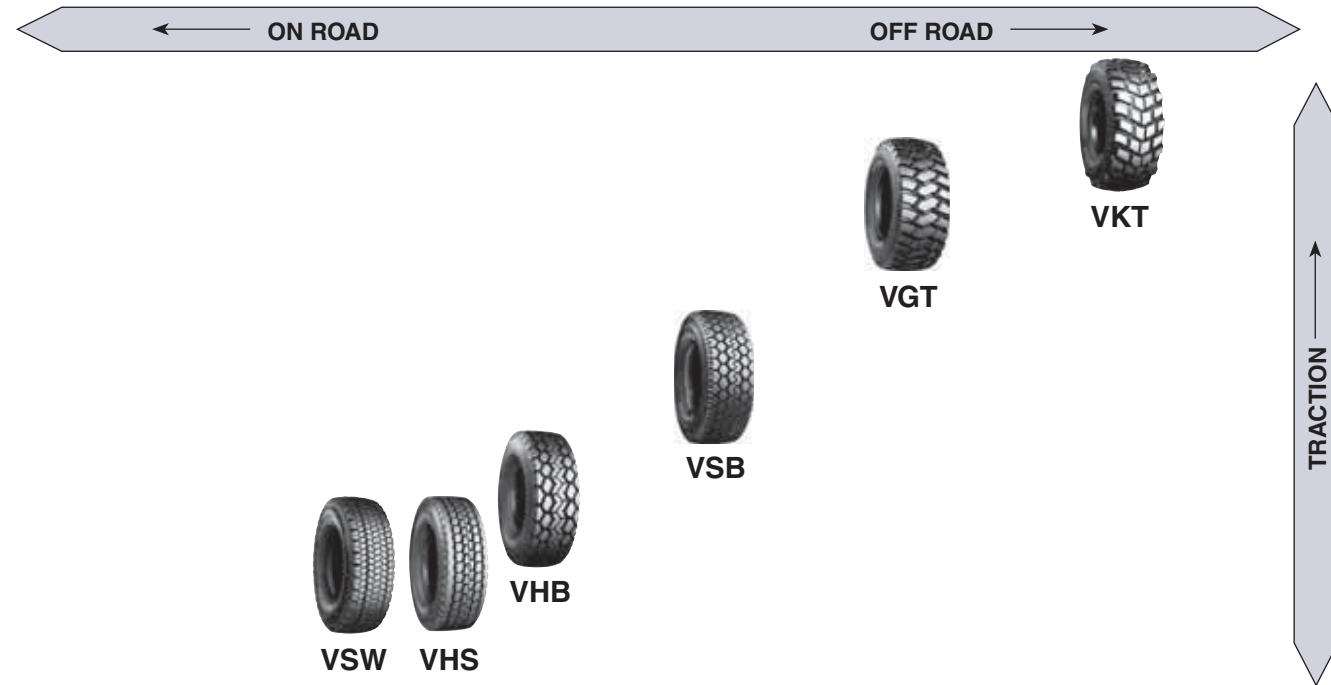
### VSDL(L5)

8.25 R 15	T/T	★2
10.00 R 15	T/T	★2
14.5 R 15	T/L	★2
12.00 R 20	T/T	★2
15.5 R 25	T/L	★1
17.5 R 25	T/L	★1★2
20.5 R 25	T/L	★1★2
23.5 R 25	T/L	★1★2
26.5 R 25	T/L	★1★2
29.5 R 25	T/L	★1★2
29.5 R 29	T/L	★1★2
35/65 R 33	T/L	★1★2
45/65 R 39	T/L	★1
45/65 R 45	T/L	★1★2
50/65 R 51	T/L	★2
55.5/80 R 57	T/L	
60/80 R 57	T/L	

### VSMS(L5S)

9.00 R 20	T/T	★2
12.00 R 20	T/T	★2
12.00 R 24	T/T	★2
14.00 R 24	T/T	★2
17.5 R 25	T/L	★1★2
18.00 R 25	T/L	★1★2
26.5 R 25	T/L	★1★2
29.5 R 29	T/L	★2

## High-Speed Service



Size	Type	Star Rating
------	------	-------------

VKT		
177E 445/95 R 25 (16.00R25)	T/L	★2

VGT		
24 R 21	T/L	★1
170E 445/80 R 25 (17.5R25)	T/L	★2

VSB		
170E 385/95 R 24 (14.00R24)	T/T	
170E 385/95 R 25 (14.00R25)	T/L	

Size	Type	Star Rating
------	------	-------------

VHB		
170E 385/95 R 24 (14.00R24)	T/T	★3
177E 445/95 R 25 (16.00R25)	T/L	★2
186E 505/95 R 25 (18.00R25)	T/L	★2

VHS		
170E 385/95 R 24 (14.00R24)	T/T	★3
170E 385/95 R 25 (14.00R25)	T/L	★3
<b>NEW</b> 170F 385/95 R 25 (14.00R25)	T/L	★3
177E 445/95 R 25 (16.00R25)	T/L	★2
<b>NEW</b> 174F 445/95 R 25 (16.00R25)	T/L	★2
186E 505/95 R 25 (18.00R25)	T/L	★2
179E 525/80 R 25 (20.5R25)	T/L	★2

Size	Type	Star Rating
------	------	-------------

* VSW		
170E 385/95 R 25 (14.00R25)	T/L	★3
177E 445/95 R 25 (16.00R25)	T/L	★2

\* VSW is especially designed for snow surface operations.

T/T: Tube Type  
T/L: Tubeless Type

## Industrial Service



VHB

14.00 R 24	T/T	★3
16.00 R 25	T/L	★2
18.00 R 25	T/L	★3



VEL

18.00 R 25	T/L	★3
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VCH

12.00 R 20	T/T	★3
12.00 R 24	T/T	★2
14.00 R 24	T/T	★3



VCHD

16.00 R 25	T/L	★2
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VCHS

12.00 R 20	T/T	★3
14.00 R 24	T/T	★3
<b>NEW</b> 14.00 R 24 TG	T/L	★3
18.00 R 25	T/L	★3
18.00 R 33	T/L	★3



VELS

18.00 R 33	T/L	★3
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VRLS

16.00 R 25	T/L	★2
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VSDL

23.5 R 25	T/L	★2
35/65 R 33	T/L	★2



VSMS

18.00 R 25	T/L	★2
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## Sand Service



VSJ(E7)

16.00 R 20	T/T	28
21.00 R 25	T/L	

T/T: Tube Type  
T/L: Tubeless Type

### 3. Technical Data

Tire Size	Pattern	LI/SS	Star Rating	TRA Code or Application	Spec	TKPH	TMPH	Approximate Inflated Dimensions				OTD	Minimum Dual Spacing	Recommended Rim/Flange Height
								OD	OW	SLR	SLW			
								mm inch	mm inch	mm inch	mm inch			
<b>15"</b>														
8.25R15	VSDL		★2	L5	D2A	-	-	880 34.6	248 9.8	405 15.9	285 11.2	48.0	-	6.50T
10.00R15	VSDL		★2	L5	D2A	-	-	905 35.6	287 11.3	416 16.4	330 13.0	48.0	-	7.50V
14.5R15 Tubeless	VSDL		★2	L5	D2A	-	-	899 35.4	359 14.1	413 16.3	412 16.2	48.0	-	11.00/1.5
<b>20"</b>														
9.00R20	VSMS		★2	L5S	D2A	-	-	1054 41.5	260 10.2	474 18.7	303 11.9	51.0	-	7.00T
11.00R20	L317		★3	E4	-	188	129	1107 43.6	290 11.4	512 20.2	325 12.8	25.0	335 13.2	8.00V
12.00R20	L317		★3	E4	-	208	142	1146 45.1	308 12.1	523 20.6	346 13.6	25.0	384 15.1	8.50V
	VSDL		★2	L5	D2A	-	-	1168 46.0	320 12.6	538 21.2	359 14.1	57.0	-	-
	VSMS		★2	L5S	D2A	-	-	1173 46.2	312 12.3	540 21.3	351 13.8	57.0	-	-
	VCH		★3	Industrial Service	IDU	-	-	See characteristics page 46						
	VCHS	176A5	★3	Industrial Service	IDU	-	-							
14.00R20	VSNL		★2	L4	D2A	-	-	1196 47.1	360 14.2	550 21.7	414 16.3	34.0	-	10.00WI
16.00R20	VSJ		28	E7	-	-	-	See characteristics page 50						
335/80R20 Tubeless	VUT	136B		E2	DE2	-	-	1036 40.8	319 12.6	463 18.2	357 14.1	19.0	-	11x20
		147A2		L2										
365/80R20 Tubeless	VUT	141B		E2	DE2	-	-	1087 42.8	347 13.7	483 19.0	389 15.3	21.0	-	11x20
		153A2		L2										
405/70R20 Tubeless	VUT	143B 155A2		E2 L2	DE2	-	-	1092 43.0	398 15.7	485 19.1	446 17.6	20.0	-	13x20
<b>21"</b>														
24R21 Tubeless	VGT		★1	High-Speed Service	-	520	356	See characteristics page 48						
<b>22.5"</b>														
12R22.5 Tubeless	L317		★3	E4	-	188	129	1109 43.7	292 11.5	517 20.4	327 12.9	25.0	343 13.5	9.00

**For the TKPH(TMPH) Ratings of Radial Tires**

- 1) The figures are at 38°C (or 100°F) ambient temperature. If the ambient temperature is over 38°C (or 100°F), consult a Bridgestone Representative.
- 2) If the round-trip distance is less than 5km (or 3 miles), the above ratings can be increased by 12%.
- 3) If the Maximum Speed exceeds 50km/h (or 30 mph), consult a Bridgestone Representative.
- 4) When haul length exceeds 16km (10miles) one way, consult a Bridgestone Representative.
- 5) To obtain the TKPH(TMPH) for type 2A-LS, multiply type 2A rating by 0.8.

Pattern	Application Max.Speed km/h mph	Tire Load Limits at Various Cold Inflation Pressures																				Size										
		kPa psi	400 58	425 62	450 65	475 69	500 73	525 76	550 80	575 83	600 87	625 91	650 94	675 98	700 102	725 105	750 109	775 112	800 115	825 120												
<b>15"</b>																																
VSDL	Loader 10 5	★																			★2	8.25R15										
		kg																			2200 4860		2275 5020	2350 5200	2425 5360	2500 5540	2575 5700	2650 5860	2725 6000	2800 6200	2875 6350	2950 6500
VSDL		★																			★2	10.00R15										
		kg																			2875 6350		2975 6550	3075 6800	3175 7000	3275 7200	3375 7450	3475 7650	3575 7850	3650 8050	3750 8250	3850 8500
VSDL		★																			★2	14.5R15										
		kg	2425 5360	2550 5620	2650 5860	2775 6100	2875 6350	2975 6600	3100 6800	3200 7050	3300 7250	3400 7500	3500 7700																			
<b>20"</b>																																
VSMS	Loader 10 5	★																			★2	9.00R20										
		kg																			3075 6800		3250 7150	3350 7400	3450 7600	3550 7850	3650 8050	3750 8250	3875 8550	4000 8800	4000 8800	4125 9100
L317	E/M 50 30	★																			★3	11.00R20										
		kg																			2500 5510		2600 5730	2710 5970	2810 6200	2910 6420	3010 6640	3100 6830	3200 7050	3300 7280	3390 7470	3480 7670
L317		★																			★3	12.00R20										
		kg																			2770 6110		2880 6350	2990 6590	3110 6860	3220 7100	3330 7340	3430 7560	3540 7800	3650 8050	3750 8270	3850 8490
VSDL VSMS	Loader 10 5	★																			★2	12.00R20										
		kg																			4375 9650		4500 9900	4625 10200	4875 10700	5000 11000	5150 11400	5300 11700	5450 12000	5600 12300	5800 12800	5800 12800
VCH VCHS	IDU	See characteristics page 47																														
		See characteristics page 47																														
VSNL	Loader 10 5	★																			★2	14.00R20										
		kg																			5200 11400		5400 11900	5550 12300	5750 12600	5900 13000	6100 13400	6250 13800	6450 14200	6600 14600	6800 15000	6950 15300
VSJ	Sand	See characteristics page 51																														
<b>21"</b>																																
VUT	Loader 10 5	★	275 40	300 44	325 47	350 51	375 54																★2	335/80R20								
		kg	2430 5350	2575 5700	2725 6000	2900 6400	3075 6800																									
VUT		★																				★2	365/80R20									
		kg	2900 6400	3075 6800	3250 7150	3450 7600	3650 8000																									
VUT		★																				★2	405/70R20									
		kg	3075 6800	3250 7250	3450 7600	3650 8100	3875 8550																									
<b>22.5"</b>																																
VGT	High-Speed	See characteristics page 49																														
<b>22.5"</b>																																
L317	E/M 50 30	★																			★3	12R22.5										
		kg	2410 5310	2510 5530	2610 5750	2700 5950	2800 6170	2890 6370	2990 6590	3080 6790	3170 6990	3260 7190	3350 7390	3440 7580	3530 7780	3620 7980	3690 8140	3760 8290														

**For the Load and Inflation Pressure Tables of Radial Tires**

- 1) Maximum Speeds are as below. Earthmover Service : 50km/h (30mph), Grader Service : 40km/h (25mph), Loader & Dozer Service : 10km/h (5mph)
- 2) Figures under the star rating denote the maximum load and inflation pressures.
- 3) For Loader & Dozer Service, Dig & Load Operation or distances are up to 76m (250ft) one way.
- 4) For Load & Carry operations, tire load limit will be adjusted following the table of page 53.

Tire Size	Pattern	LI/SS	Star Rating	TRA Code or Application	Spec	TKPH	TMPH	Approximate Inflated Dimensions				OTD	Minimum Dual Spacing	Recommended Rim/Flange Height
								OD	OW	SLR	SLW			
								mm inch	mm inch	mm inch	mm inch			
<b>24"</b>														
12.00R24	L317		★3	E4	-	177	121	1254 49.4	319 12.6	577 22.7	355 14.0	31.5	391 15.4	8.50V
	VMTP		★3	E4	E2A	136	93	1256 49.4	319 12.6	577 22.7	355 14.0	31.5	391 15.4	
	VSMS		★2	L5S	D2A	-	-	1275 50.2	312 12.3	573 22.6	364 14.3	57.0	-	
	VCH		★2	Industrial Service	IDU	-	-	See characteristics page 46						
13.00R24 TG Tubeless	VUT		★1	G2	G2A	-	-	1290 50.8	357 14.1	585 23.0	380 15.0	25.0	-	8.00TG
14.00R24	VKT		★3	E2	E2A	106	73	1351 53.2	390 15.4	612 24.1	442 17.4	25.0	450 17.7	10.00W
	VS		★3	E2	E2A	179	123	1365 53.7	390 15.4	628 24.7	433 17.0	21.0	450 17.7	
	VHB		★3	Industrial Service	-	-	-	See characteristics page 46						
	VMTS		★3	E4	E2A E1A	91 119	62 82	1400 55.1	386 15.2	642 25.3	428 16.9	38.0	450 17.7	10.00W
	VRLS		★3	E4	E2A	85	58	1403 55.2	390 15.4	644 25.4	432 17.0	39.0	450 17.7	
	VSMS		★2	L5S	D2A	-	-	1394 54.8	390 15.4	634 25.0	437 17.2	72.0	-	
	VCH		★3	Industrial Service	IDU	-	-	See characteristics page 46						
	VCHS	196A5	★3	Industrial Service	IDU	-	-	See characteristics page 46						
14.00R24 TG Tubeless	VKT		★1	G2 L2	G2A D2A	- -	- -	1351 53.2	370 14.6	612 24.1	422 16.6	25.0	-	8.00TG
	VUT		★1	G2	G2A	-	-	1354 53.3	373 14.7	611 24.1	420 16.5	25.5	-	
	VSW		★3	G2	-	-	-	1351 53.2	390 15.4	594 23.4	446 17.6	23.5	-	10.00VA
		153A8 175A2	★1	-	DG2 L2	-	-	-	370 14.6	-	426 16.8	-	-	8.00TG
	VMTS		★1	G4	G2A	-	-	1400 55.1	373 14.7	TBA TBA	TBA TBA	38.0	-	
	VCHS	196A5	★3	Industrial Service	IDU	-	-	See characteristics page 46						

**For the TKPH(TMPH) Ratings of Radial Tires**

- 1) The figures are at 38°C (or 100°F) ambient temperature. If the ambient temperature is over 38°C (or 100°F), consult a Bridgestone Representative.
- 2) If the round-trip distance is less than 5km (or 3 miles), the above ratings can be increased by 12%.
- 3) If the Maximum Speed exceeds 50km/h (or 30 mph), consult a Bridgestone Representative.
- 4) When haul length exceeds 16km (10miles) one way, consult a Bridgestone Representative.
- 5) To obtain the TKPH(TMPH) for type 2A-LS, multiply type 2A rating by 0.8.

Pattern	Application Max.Speed km/h mph	Tire Load Limits at Various Cold Inflation Pressures																		Size	
		kPa psi	450 65	475 69	500 73	525 76	550 80	575 83	600 87	625 91	650 94	675 98	700 102	725 105	750 109	775 112	800 115	825 120			
<b>24"</b>																					
L317 VMTP	E/M 50 30	★	★3																		12.00R24
		kg	3050	3180	3300	3430	3550	3670	3790	3900	4020	4140	4250								
		lbs	6720	7010	7280	7560	7830	8090	8360	8600	8860	9130	9370								
VSMS	Loader 10 5	★	★2																		12.00R24
		kg							4875	5150	5300	5450	5600	5800	6000	6150	6300	6500	6500	6700	
VCH	IDU	★	★2																		12.00R24
		kg							11000	11400	11700	12000	12300	12800	13200	13600	13900	14300	14300	14700	
<b>24"</b>																					
VUT	Grader 40 25	★	★1																		13.00R24 TG
		kg	1850	2000	2180	2360	2500	2650	2800	3000											
		lbs	4080	4400	4800	5200	5520	5840	6150	6600											
VKT VS VMTS VRLS	E/M 50 30	★	★3																		14.00R24
		kg	4000	4125	4375	4500	4625	4750	5000	5150	5300	5450	5600	5710	5830	5940	6050				
		lbs	8800	9100	9650	9900	10200	10500	11000	11400	11700	12000	12300	12500	12800	13100	13400				
VSMS	Loader 10 5	★	★2																		14.00R24
		kg	5950	6200	6450	6700	6950	7200	7450	7700	7950	8200	8450	8700	8950	9200	9500				
VHB VCH VCHS	IDU	★	★2																		14.00R24
		kg	13120	13700	14220	14800	15300	15900	16400	16980	17500	18080	19600	19180	19690	20680	20900				
<b>24"</b>																					
VKT VUT VSW VMTS	Grader 40 25	★	★1																		14.00R24TG
		kg	2240	2430	2650	2800	3000	3250	3350	3650											
		lbs	4940	5360	5840	6150	6600	7150	7400	8050											
VKT VSW	Loader 10 5	★	★1																		14.00R24TG
		kg													6700	6900					
VCHS	IDU	★	★1																		14.00R24TG
		kg													14800	15200					

**For the Load and Inflation Pressure Tables of Radial Tires**

- 1) Maximum Speeds are as below. Earthmover Service : 50km/h (30mph), Grader Service : 40km/h (25mph), Loader & Dozer Service : 10km/h (5mph)
- 2) Figures under the star rating denote the maximum load and inflation pressures.
- 3) For Loader & Dozer Service, Dig & Load Operation or distances are up to 76m (250ft) one way.
- 4) For Load & Carry operations, tire load limit will be adjusted following the table of page 53.

Tire Size	Pattern	LI/SS	Star Rating	TRA Code or Application	Spec	TKPH	TMPH	Approximate Inflated Dimensions				OTD	Minimum Dual Spacing	Recommended Rim/Flange Height
								OD	OW	SLR	SLW			
								mm inch	mm inch	mm inch	mm inch			
385/95R24 (14.00R24)	VSB			Logging		-	-	1365	390	628	433	21.0	450	10.00W
		170E		High-Speed Service				53.7	15.4	24.7	17.0		17.7	
	VHB	170E	★3	High-Speed Service	-	-	-	See characteristics page 48						
	VHS	170E	★3	High-Speed Service	-	-	-	See characteristics page 48						
16.00R24 TG Tubeless	VKT		★1	G2	G2A	-	-	1473	418	675	470	28.5	-	10.00VA
								58.0	16.5	26.6	18.5		-	
	VSW		★1	G2	-	-	-	1485	417	680	467	22.5	-	
								58.5	16.4	26.8	18.4		-	
25"														
14.00R25 Tubeless	VSB		★3	E2	E2A	179	123	1365	390	628	433	21.0	450	10.00/1.5
								53.7	15.4	24.7	17.0		17.7	
	VMTS		★3	E4	E2A	91	62	1406	389	650	435	38.0	450	
								55.4	15.3	25.6	17.1		17.7	
	VRLS		★3	E4	E2A	136	93	1403	389	650	435	39.0	450	
								55.2	15.3	25.6	17.1		17.7	
385/95R25 (14.00R25) Tubeless	VSB			Logging	-	-	-	1365	390	628	433	21.0	450	10.00/1.5
		170E		High-Speed Service				53.7	15.4	24.7	17.0		17.7	
	VHS	170E	★3	High-Speed Service	-	-	-	See characteristics page 48						
		New 170F						See characteristics page 48						
	VSW		★3	Logging	-	-	-	1355	394	631	427	23.5	450	10.00/1.5
		170E		High-Speed Service				53.3	15.5	24.8	16.8		17.7	
15.5R25 Tubeless	VUT		★2	G2, L2	DG2	-	-	1269	383	559	436	27.0	-	12.00/1.3
								50.0	15.1	22.0	17.2		-	
	VKT		★1	L2	D2A	-	-	1275	392	570	445	23.5	-	
								50.2	15.4	22.4	17.5		-	
	VSDL		★1	L5	D2A	-	-	1329	392	606	443	64.0	-	
								52.3	15.4	23.9	17.4		-	
16.00R25 Tubeless	VMTS		★2	E4	E2A	123	84	1535	450	696	507	45.0	513	11.25/2.0
								60.4	17.7	27.4	20.0		20.2	
	VRLS		★2	E4	E2A	112	77	1531	448	697	510	45.0	513	
					E1A	146	100	60.3	17.6	27.4	20.1		20.2	
	VHB		★2	Industrial Service	IDU	-	-	See characteristics page 46						
	VCHD		★2	Industrial Service	IDU	-	-	See characteristics page 46						
	VRLS		★2	Industrial Service	IDU	-	-	See characteristics page 46						

**For the TKPH(TMPH) Ratings of Radial Tires**

- 1) The figures are at 38°C (or 100°F) ambient temperature. If the ambient temperature is over 38°C (or 100°F), consult a Bridgestone Representative.
- 2) If the round-trip distance is less than 5km (or 3 miles), the above ratings can be increased by 12%.
- 3) If the Maximum Speed exceeds 50km/h (or 30 mph), consult a Bridgestone Representative.
- 4) When haul length exceeds 16km (10miles) one way, consult a Bridgestone Representative.
- 5) To obtain the TKPH(TMPH) for type 2A-LS, multiply type 2A rating by 0.8.

Pattern	Application Max. Speed	Tire Load Limits at Various Cold Inflation Pressures													Size			
		kPa	450	480	520	550	590	620	660	690	720	760	790					
		psi	65	70	75	80	85	90	95	100	105	110	115					
VSB	Logging	Load Range	J (18PR)						L (20PR)						Maximum Speed = 88km/h (55mph)			
		kg	3700	3910	4110	4310	4500	4690	4870	5150	5300	5450	5600					
		lbs	8150	8620	9070	9500	9930	10340	10730	11400	11700	12000	12300					
VSB	High-Speed	See characteristics page 49													385/95R24 (14.00R24)			
VHB																		
VHS																		
		kPa	200	225	250	275	300	325	350	375					16.00R24 TG			
		psi	29	33	36	40	44	47	51	54								
VKT	Grader	★	★1										16.00R24 TG					
VSW	40	kg	2900	3150	3350	3650	3875	4125	4375	4625								
		25	lbs	6400	6950	7400	8050	8550	9100	9650	10200							
25"														14.00R25				
		kPa	450	475	500	525	550	575	600	625	650	675	700		725	750	775	800
		psi	65	69	73	76	80	83	87	91	94	98	102	105	109	112	115	
VSB	E/M	★	★3													14.00R25		
VMTS	50	kg	4000	4125	4375	4500	4625	4750	5000	5150	5300	5450	5600	5710	5830		5940	6050
VRLS	30	lbs	8800	9100	9650	9900	10200	10500	11000	11400	11700	12000	12300	12500	12800	13100	13400	
		kPa	450	480	520	550	590	620	660	690	720	760	790					385/95R25 (14.00R25)
		psi	65	70	75	80	85	90	95	100	105	110	115					
VSB	Logging	Load Range	J (18PR)						L (20PR)						Maximum Speed = 88km/h (55mph)			
VSW		kg	3700	3910	4110	4310	4500	4690	4870	5150	5300	5450	5600					
		lbs	8150	8620	9070	9500	9930	10340	10730	11400	11700	12000	12300					
VSB	High-Speed	See characteristics page 49													385/95R25 (14.00R25)			
VHS																		
VSW																		
		kPa	400	425	450	475	500	525	550	575	600	625	650					15.5R25
		psi	58	62	65	69	73	76	80	83	87	91	94					
VUT	Loader	★	★1						★2						15.5R25			
VKT	10	kg	5000	5150	5450	5600	5800	6150	6300	6500	6700	6900	7100					
VSDL	5	lbs	11000	11400	12000	12300	12800	13600	13900	14300	14800	15200	15700					
		kPa	125	150	175	200	225	250	275	300							16.00R25	
		psi	18	22	25	29	33	36	40	44								
VUT	Grader	★	★1						★2						16.00R25			
	40	kg	1550	1750	2000	2180	2360	2575	2800	3000								
		25	lbs	3420	3860	4400	4800	5200	5680	6150	6600							
		kPa	450	475	500	525	550	575	600	625	650	675	700					
		psi	65	69	73	76	80	83	87	91	94	98	102					
VMTS	E/M	★	★2													16.00R25		
VRLS	50	kg	5150	5450	5600	5800	6000	6300	6500	6700	6900	7100	7300					
		30	lbs	11400	12000	12300	12800	13200	13900	14300	14800	15200	15700	16100				
VHB	IDU	See characteristics page 47													16.00R25			
VCHD																		
VRLS																		

**For the Load and Inflation Pressure Tables of Radial Tires**

- 1) Maximum Speeds are as below. Earthmover Service : 50km/h (30mph), Grader Service : 40km/h (25mph), Loader & Dozer Service : 10km/h (5mph)
- 2) Figures under the star rating denote the maximum load and inflation pressures.
- 3) For Loader & Dozer Service, Dig & Load Operation or distances are up to 76m (250ft) one way.
- 4) For Load & Carry operations, tire load limit will be adjusted following the table of page 53.

Tire Size	Pattern	LI/SS	Star Rating	TRA Code or Application	Spec	TKPH	TMPH	Approximate Inflated Dimensions				OTD	Minimum Dual Spacing	Recommended Rim/Flange Height
								OD	OW	SLR	SLW			
								mm inch	mm inch	mm inch	mm inch			
<b>445/95R25 (16.00R25)</b> Tubeless	VKT	177E	★2	High-Speed Service	-	-	-	See characteristics page 48						445/95R25 (16.00R25)
	VHB	177E	★2	High-Speed Service	-	-	-							
	VHS <small>New</small>	177E 174F	★2	High-Speed Service	-	-	-							
	VSW	177E	★2	High-Speed Service	-	-	-							
<b>17.5R25</b> Tubeless	VKT		★1	E2	EG2	95	65	1339	440	600	490	27.0	-	14.00/1.5
				G2		-	-	52.7	17.3	23.6	19.3	-		
				L2	D2A	-	-							
	VUT		★1	G2, L2	DG2	-	-	1340	444	586	500	28.0	-	
									52.8	17.5	23.1	19.7	-	
	VSW	153A8 176A2	★1	G2	DG2	-	-	1340	440	597	480	27.0	-	
				L2		-	-	52.8	17.3	23.5	18.9	-		
	VMT		★2	E3	E1A	144	99	1352	443	600	514	30.0	-	
L3				D2A	-	-	53.2	17.4	23.6	20.2	-			
VSDL		★2	L5	D2A	-	-	1400	440	639	495	68.0	-		
		★1				55.1	17.3	25.2	19.5	-				
VSMS		★2	L5S	D2A	-	-	1374	440	623	487	68.5	-		
		★1				54.1	17.3	24.5	19.2	-				
<b>445/80R25 (17.5R25)</b> Tubeless	VGT	170E	★2	High-Speed Service	-	-	-	See characteristics page 48						445/80R25 (17.5R25)
<b>18.00R25</b> Tubeless	VKT		★2	E2	E1A	239	164	1610	510	733	571	31.0	587	
								63.4	20.1	28.9	22.5		23.1	
	VEL		★2	E3	E2A	181	124	1605	506	729	580	34.0	587	
								63.2	19.9	28.7	22.8		23.1	
			★3	Industrial Service	-	-	-	See characteristics page 46						
	VMTS		★2	E4	E2A	169	116	1649	514	754	571	51.0	587	13.00/2.5
							64.9	20.2	29.7	22.5		23.1		
VELS		★2	E4	E2A	144	99	1638	515	744	580	50.0	587		
				E1A	179	123	64.5	20.3	29.3	22.8		23.1		
VSMS		★2	L5S	D2A	-	-	1675	512	733	592	84.5	-		
		★1				65.9	20.2	28.9	23.3	-				
		★2	Industrial Service	-	-	-	See characteristics page 46							

**For the TKPH(TMPH) Ratings of Radial Tires**

- 1) The figures are at 38°C (or 100°F) ambient temperature. If the ambient temperature is over 38°C (or 100°F), consult a Bridgestone Representative.
- 2) If the round-trip distance is less than 5km (or 3 miles), the above ratings can be increased by 12%.
- 3) If the Maximum Speed exceeds 50km/h (or 30 mph), consult a Bridgestone Representative.
- 4) When haul length exceeds 16km (10miles) one way, consult a Bridgestone Representative.
- 5) To obtain the TKPH(TMPH) for type 2A-LS, multiply type 2A rating by 0.8.

Pattern	Application Max.Speed km/h mph	Tire Load Limits at Various Cold Inflation Pressures																	Size								
		kPa psi	275 40	300 44	325 47	350 51	375 54	400 58	425 62	450 65	475 69	500 73	525 76	550 80	575 83	600 87	625 91	650 94									
VKT VHB VHS VSW	High-Speed	See characteristics page 49																	445/95R25 (16.00R25)								
VKT VMT	E/M 50 30	★ kg lbs	3350 7400	3550 7850	3750 8250	4000 8800	4125 9100	4375 9650	4625 10200	4750 10500	5000 11000	5150 11400	5450 12000	★1					★2		17.5R25						
VUT VKT VSW VMT VSDL VSMS	Loader 10 5	★ kg lbs	★1										★2														
			125 18	150 22	175 25	200 29	225 33	250 36	275 40	300 44																	
VUT VKT VSW	Grader 40 25	★ kg lbs	1850 4080	2120 4680	2360 5200	2650 5840	2900 6400	3075 6800	3350 7400	3650 8050	For slope and ditching service, inflation pressures should be increased by 100kPa (15psi) with no increase in load rating. For extreme conditions, consult a Bridgestone Representative for additional recommended operating requirements.																
VGT	High-Speed	See characteristics page 49																	445/80R25 (17.5R25)								
VKT VEL VMTS VELS	E/M 50 30	★ kg lbs	6700 14800	7100 15700	7300 16100	7500 16500	7750 17100	8000 17600	8250 18200	8500 18700	8750 19300	9000 19800	9250 20400	★2							18.00R25						
VSMS	Loader 10 5	★ kg lbs	★1										★2														
VEL VSMS	IDU	See characteristics page 47																									

**For the Load and Inflation Pressure Tables of Radial Tires**

- 1) Maximum Speeds are as below. Earthmover Service : 50km/h (30mph), Grader Service : 40km/h (25mph), Loader & Dozer Service : 10km/h (5mph)
- 2) Figures under the star rating denote the maximum load and inflation pressures.
- 3) For Loader & Dozer Service, Dig & Load Operation or distances are up to 76m (250ft) one way.
- 4) For Load & Carry operations, tire load limit will be adjusted following the table of page 53.

Tire Size	Pattern	LI/SS	Star Rating	TRA Code or Application	Spec	TKPH	TMPH	Approximate Inflated Dimensions				OTD	Minimum Dual Spacing	Recommended Rim/Flange Height
								OD	OW	SLR	SLW			
								mm inch	mm inch	mm inch	mm inch			
18.00R25 Tubeless	VHB		★3	Industrial Service	IDU	-	-	See characteristics page 46						
	VCHS	214A5	★3	Industrial Service	IDU	-	-	See characteristics page 46						
505/95R25 (18.00R25) Tubeless	VHB	186E	★2	High-Speed Service	-	-	-	See characteristics page 48						
	VHS	186E	★2	High-Speed Service	-	-	-	See characteristics page 48						
20.5R25 Tubeless	VKT		★2	E2	E2A	160	110	1470	530	644	597	30.5	-	17.00AL/1.7(★1only) 17.00/2.0
			★1	L2	D2A	-	-	57.9	20.9	25.4	23.5	-	-	
	VSW		MS	E2, L2	DE2	-	-	1470	530	640	603	30.5	-	-
									57.9	20.9	25.2	23.7	-	-
	VUT		★1	G2, L2	DG2	-	-	1473	533	643	608	30.5	-	-
									58.0	21.0	25.3	23.9	-	-
	VLT	177B 186A2	MS	E3 L3	DE2	149	102	1495	533	676	586	40.0	-	-
	VMT		★1	L3	D2A	-	-	1480	530	652	597	33.0	-	-
	VJT	186A2	★1	L3	D2A	-	-	1480	530	652	597	33.0	-	-
								58.3	20.9	25.7	23.5	-	-	
VLTS	177B 186A2	MS	E4 L4	DE2	126	86	1478	530	667	581	49.0	-	-	
VSDL			★2	L5	D2A	-	-	1552	531	704	583	78.0	-	
			★1											
525/80R25 (20.5R25) Tubeless	VHS	179E	★2	High-Speed Service	-	308	211	See characteristics page 48						
21.00R25 Tubeless	VSJ			E7	-	-	-	See characteristics page 50						

**For the TKPH(TMPH) Ratings of Radial Tires**

- 1) The figures are at 38°C (or 100°F) ambient temperature. If the ambient temperature is over 38°C (or 100°F), consult a Bridgestone Representative.
- 2) If the round-trip distance is less than 5km (or 3 miles), the above ratings can be increased by 12%.
- 3) If the Maximum Speed exceeds 50km/h (or 30 mph), consult a Bridgestone Representative.
- 4) When haul length exceeds 16km (10miles) one way, consult a Bridgestone Representative.
- 5) To obtain the TKPH(TMPH) for type 2A-LS, multiply type 2A rating by 0.8.

Pattern	Application Max.Speed km/h mph	Tire Load Limits at Various Cold Inflation Pressures														Size			
		kPa psi	275 40	300 44	325 47	350 51	375 54	400 58	425 62	450 65	475 69	500 73	525 76	550 80	575 83		600 87	625 91	650 94
VHB VCHS	IDU	See characteristics page 47														18.00R25			
VHB VHS	High-Speed	See characteristics page 49														505/95R25 (18.00R25)			
VKT VSW VLT VLTS	E/M 50 30	★ kg lbs	4375 9650	4750 10500	5000 11000	5300 11700	5600 12300	5800 12800	6150 13600	6500 14300	6700 14800	6900 15200	7300 16100	★1 ★2				20.5R25	
VUT	Grader 40 25	★ kg lbs	2430 5360	2800 6150	3150 6950	3450 7600	3875 8550	4125 9100	4375 9650	4625 10200	★1 ★2								
<p>For slope and ditching service, inflation pressures should be increased by 100kPa (15psi) with no increase in load rating. For extreme conditions, consult a Bridgestone Representative for additional recommended operating requirements.</p>																			
VUT VKT VSW VLT VMT VJT VLTS VSDL	Loader 10 5	★ kg lbs					8000 17600	8250 18200	8750 19300	9000 19800	9500 20900	9750 21500	10000 22000	10300 22700	10900 24000	11200 24700	11500 25400		525/80R25 (20.5R25)
VHS	High-Speed	See characteristics page 49																	
VSJ	Sand	See characteristics page 51														21.00R25			

**For the Load and Inflation Pressure Tables of Radial Tires**

- 1) Maximum Speeds are as below. Earthmover Service : 50km/h (30mph), Grader Service : 40km/h (25mph), Loader & Dozer Service : 10km/h (5mph)
- 2) Figures under the star rating denote the maximum load and inflation pressures.
- 3) For Loader & Dozer Service, Dig & Load Operation or distances are up to 76m (250ft) one way.
- 4) For Load & Carry operations, tire load limit will be adjusted following the table of page 53.

Tire Size	Pattern	LI/SS	Star Rating	TRA Code or Application	Spec	TKPH	TMPH	Approximate Inflated Dimensions				OTD	Minimum Dual Spacing	Recommended Rim/Flange Height
								OD	OW	SLR	SLW			
								mm inch	mm inch	mm inch	mm inch			
23.5R25 Tubeless	VKT		★2	E2	E2A	205	140	1602	612	690	686	33.0	-	19.50/2.5
			★1	L2	D2A	-	-	63.1	24.1	27.2	27.0	-		
	VSW		MS	E2, L2	DE2	-	-	1596	620	692	689	31.5	-	
									62.8	24.4	27.2	27.1	-	
	VUT		★1	G2, L2	DG2	-	-	1599	620	702	688	33.5	-	
									63.0	24.4	27.6	27.1	-	
	VLT	185B 195A2	MS	E3	DE2	190	130	1623	616	734	680	42.5	-	
				L3				63.9	24.3	28.9	26.8	-		
	VMT		★2	E3	E2A	190	130	1600	617	702	688	35.0	-	
				L3				63.0	24.3	27.6	27.1	-		
		★1												
VJT	195A2	★1	L3	D2A	-	-	1602	616	696	695	35.0	-		
								63.1	24.3	27.4	27.4	-		
VLTS	185B 195A2	MS	E4	DE2	161	110	1616	612	729	675	54.0	-		
			L4				63.6	24.1	28.7	26.6	-			
VSDT	201A2 195A2	★2	L5	D2A	-	-	1660	621	745	680	79.0	-		
		★1	65.4				24.4	29.3	26.8	-				
VSDL		★2	L5	D2A	-	-	1672	608	755	677	87.0	-		
		★1	65.8				23.9	29.7	26.7	-				
		★2	Industrial Service				IDU	-	-	See characteristics page 46				
25/65R25 Tubeless	VKT		★2	E2	E2A	162	111	1486	635	670	690	30.5	-	20.00/2.0
								58.5	25.0	26.4	27.2	-		
550/65R25 Tubeless	VTS		★1	L3	D2A	-	-	1350	547	594	605	32.5	-	(14.00/1.5) 17.00/2.0
								53.1	21.5	23.4	23.8	-		
650/65R25 Tubeless	VTS		★1	L3	D2A	-	-	1502	642	660	710	37.0	-	19.50/2.5
								59.1	25.3	26.0	28.0	-		
750/65R25 (30/65R25) Tubeless	VLT	190B 202A2	MS	E3	DE2	225	154	1625	765	718	831	43.0	-	(22.00/3.0)
				L3				64.0	30.1	28.3	32.7	-	24.00/3.0	
		VTS		★1	L3	D2A	-	-	1607	745	701	833	41.0	-
								63.3	29.3	27.6	32.8	-		
26.5R25 Tubeless	VKT		★2	E2	E2A	257	176	1732	677	756	772	39.0	-	22.00/3.0
			★1	L2				-	-	68.2	26.7	29.8	30.4	
		VLT	193B 202A2	MS	E3	DE2	220	151	1755	678	787	736	45.0	-
				L3	69.1				25.7	31.0	29.0	-		
	VMT		★2	L3	D2A	-	-	1735	684	754	766	38.0	-	
			★1	68.3				26.9	29.7	30.2	-			
	VJT	193B 202A2	MS	E3	DE2	220	151	1737	682	754	766	38.0	-	
				L3				68.4	26.9	29.7	30.2	-		

**For the TKPH(TMPH) Ratings of Radial Tires**

- 1) The figures are at 38°C (or 100°F) ambient temperature. If the ambient temperature is over 38°C (or 100°F), consult a Bridgestone Representative.
- 2) If the round-trip distance is less than 5km (or 3 miles), the above ratings can be increased by 12%.
- 3) If the Maximum Speed exceeds 50km/h (or 30 mph), consult a Bridgestone Representative.
- 4) When haul length exceeds 16km (10miles) one way, consult a Bridgestone Representative.
- 5) To obtain the TKPH(TMPH) for type 2A-LS, multiply type 2A rating by 0.8.

Pattern	Application Max.Speed km/h mph	Tire Load Limits at Various Cold Inflation Pressures													Size				
		kPa psi	275 40	300 44	325 47	350 51	375 54	400 58	425 62	450 65	475 69	500 73	525 76						
VKT	E/M	★	★1						★2						23.5R25				
VSW	50	kg	5600	6000	6500	6700	7100	7500	7750	8250	8500	9000	9250						
VLT	30	lbs	12300	13200	14300	14800	15700	16500	17100	18200	18700	19800	20400						
VMT																			
VJT																			
VLTS																			
		kPa psi	125 18	150 22	175 25	200 29	225 33	250 36	275 40	300 44									
VUT	Grader	★	★1										23.5R25						
	40	kg	3150	3550	4000	4500	4875	5300	5600	6000									
	25	lbs	6950	7850	8800	9900	10700	11700	12300	13200									
			For slope and ditching service, inflation pressures should be increased by 100kPa (15psi) with no increase in load rating. For extreme conditions, consult a Bridgestone Representative for additional recommended operating requirements.																
		kPa psi	275 40	300 44	325 47	350 51	375 54	400 58	425 62	450 65	475 69	500 73	525 76	550 80	575 83	600 87	625 91	650 94	
VUT	Loader	★	★1						★2						23.5R25				
VKT	10	kg						10300	10600	11200	11500	12150	12500	12850		13200	13600	14000	14500
VSW	5	lbs						22700	23400	24700	25400	26800	27600	28300		29100	30000	30900	32000
VLT																			
VMT																			
VJT																			
VLTS																			
VSDT																			
VSDL	IDU		See characteristics page 47																
VKT	E/M	★	★2										25/65R25						
	50	kg	5600	6000	6300	6700	7100	7450	7750										
	30	lbs	12350	13200	13850	14800	15600	16350	17100										
VTS	Loader	★	★1										550/65R25						
	10	kg						7500	7750	8250	8500								
	5	lbs						16500	17100	18200	18700								
VTS		★	★1										650/65R25						
		kg						10000	10600	10900	11500								
		lbs						22000	23400	24000	25400								
VLT	E/M	★	★2										750/65R25 (30/65R25)						
VLTS	50	kg	6900	7300	7750	8250	8750	9250	9750	10300	10600								
	30	lbs	15200	16100	17100	18200	19300	20400	21500	22700	23400								
VLT	Loader	★	★1										750/65R25 (30/65R25)						
VTS	10	kg						13200	13600	14500	15000								
	5	lbs						29100	30000	32000	33100								
VKT	E/M	★	★1						★2						26.5R25				
VLT	50	kg	7100	7500	8000	8500	9000	9500	9750	10300	10600	11200	11500						
VJT	30	lbs	15700	16500	17600	18700	19800	20900	21500	22700	23400	24700	25400						
VKT	Loader	★	★1										26.5R25						
VLT	10	kg							12850	13200	14000	14500		15000	15500	16000	16500	17000	18000
VMT	5	lbs							28300	29100	30900	32000	33100	34200	35300	36400	37500	39700	40800
VJT																			

**For the Load and Inflation Pressure Tables of Radial Tires**

- 1) Maximum Speeds are as below. Earthmover Service : 50km/h (30mph), Grader Service : 40km/h (25mph), Loader & Dozer Service : 10km/h (5mph)
- 2) Figures under the star rating denote the maximum load and inflation pressures.
- 3) For Loader & Dozer Service, Dig & Load Operation or distances are up to 76m (250ft) one way.
- 4) For Load & Carry operations, tire load limit will be adjusted following the table of page 53.

Tire Size	Pattern	LI/SS	Star Rating	TRA Code or Application	Spec	TKPH	TMPH	Approximate Inflated Dimensions				OTD	Minimum Dual Spacing	Recommended Rim/Flange Height	
								OD	OW	SLR	SLW				
								mm inch	mm inch	mm inch	mm inch				
26.5R25 Tubeless	VLTS	193B	★2	E4	E2A	186	127	1736 68.3	675 26.6	784 30.9	743 29.3	60.0	-	22.00/3.0	
	VSNT		MS	E4	DE2	165	113	1779 70.0	685 27.0	799 31.5	740 29.1	57.5	-		
			★2	L4	D2A	-	-	-	-	-	-	-	-		
	VSDT	209A2	202A2	★2	L5	D2A	-	-	1775 69.9	697 27.4	790 31.1	778 30.6	88.0	-	
		★1													
	VSDL			★2	L5	D2A	-	-	1790 70.5	684 26.9	797 31.4	761 30.0	95.5	-	
★1															
VSMS			★2	L5S	D2A	-	-	1775 69.9	684 26.9	810 31.9	746 29.4	95.0	-		
			★1												
29.5R25 Tubeless	VKT		★2	E2	E2A E1A	310 376	212 258	1861 73.3	762 30.0	822 32.4	844 33.2	44.0	-	25.00/3.5	
	VLT	200B	MS	E3	DE2	266	182	1885 74.2	762 30.0	840 33.1	830 32.7	48.0	-		
		208A2		L3		-	-	-	-	-	-	-			
	VMT			★2	E3	E2A E1A	266 354	182 242	1865 73.4	762 30.0	808 31.8	868 34.2	42.0	-	
				★1	L3	D2A	-	-	-	-	-	-	-		
	VLTS	200B		★2	E4	E2A	225	154	1865 73.4	762 30.0	835 32.9	844 33.2	65.0	-	
	VSNT			MS	E4	DE2	220	151	1905 75.0	768 30.2	849 33.4	835 32.9	60.0	-	
				★2	L4		D2A	-	-	-	-	-	-	-	
VSDT	216A2	208A2	★2	L5	D2A	-	-	1903 74.9	779 30.7	845 33.3	869 34.2	96.0	-		
	★1														
VSDL			★2	L5	D2A	-	-	1925 75.8	766 30.2	855 33.7	846 33.3	104.0	-		
			★1												
29"															
775/65R29 Tubeless	VTS		★1	L3	D2A	-	-	1740 68.5	775 30.5	762 30.0	843 33.2	43.0	-	(24.00/3.5) 25.00/3.5	
875/65R29 Tubeless	VTS		MS	E3	DE2	-	-	1865 73.4	850 33.5	804 31.7	982 38.7	47.5	-	27.00/3.5 (28.00/3.5)	
				L3											
29.5R29 Tubeless	VKT		★2	E2	E2A E1A	330 401	226 275	1958 77.1	765 30.1	870 34.3	841 33.1	44.0	-	25.00/3.5	
	VSNT		MS	E4	DE2	232	159	2000 78.7	774 30.5	905 35.6	849 34.6	60.0	-		
			★2	L4		D2A	-	-	-	-	-	-			
	VSDT	218A2	211A2	★2	L5	D2A	-	-	1989 78.3	779 30.7	883 34.8	872 34.3	96.0	-	
★1															
VSDL			★2	L5	D2A	-	-	2008 79.1	776 30.6	900 35.4	856 33.7	104.5	-		
			★1												

**For the TKPH(TMPH) Ratings of Radial Tires**

- 1) The figures are at 38°C (or 100°F) ambient temperature. If the ambient temperature is over 38°C (or 100°F), consult a Bridgestone Representative.
- 2) If the round-trip distance is less than 5km (or 3 miles), the above ratings can be increased by 12%.
- 3) If the Maximum Speed exceeds 50km/h (or 30 mph), consult a Bridgestone Representative.
- 4) When haul length exceeds 16km (10miles) one way, consult a Bridgestone Representative.
- 5) To obtain the TKPH(TMPH) for type 2A-LS, multiply type 2A rating by 0.8.

Pattern	Application Max.Speed km/h mph	Tire Load Limits at Various Cold Inflation Pressures																			Size	
		kPa psi	275 40	300 44	325 47	350 51	375 54	400 58	425 62	450 65	475 69	500 73	525 76	550 80	575 83	600 87	625 91	650 94				
		★	★1									★2										
VLTS VSNT	E/M 50 30	★																				26.5R25
		kg lbs	7100 15700	7500 16500	8000 17600	8500 18700	9000 19800	9500 20900	9750 21500	10300 22700	10600 23400	11200 24700	11500 25400									
VSNT VSDT VSDL VSMS	Loader 10 5	★																				26.5R25
		kg lbs										12850 28300	13200 29100	14000 30900	14500 32000	15000 33100	15500 34200	16000 35300	16500 36400	17000 37500	18000 39700	
VKT VLT VMT VLTS VSNT	E/M 50 30	★																				29.5R25
		kg lbs	8500 18700	9250 20400	9750 21500	10300 22700	10900 24000	11500 25400	11800 26000	12500 27600	12850 28300	13600 30000	14000 30900									
VLT VMT VSNT VSDT VSDL	Loader 10 5	★																				29.5R25
		kg lbs										15500 34200	16000 35300	17000 37500	17500 38600	18000 39700	19000 41900	19500 43000	20000 44100	20600 45400	21200 46700	
29"																						
VTS	Loader 10 5	★																				775/65R29
		kg lbs										15000 33100	15500 34200	16500 36400	17000 37500							
VTS	E/M 50 30	★																				875/65R29
		kg lbs	10000 22000	10900 24000	11500 25400	12150 26800	12850 28300	13600 30000	14000 30900	14500 32000	15500 34200											
VTS	Loader 10 5	★																				875/65R29
		kg lbs										18500 40800	19500 43000	20600 45400	21200 46700							
VKT VSNT	E/M 50 30	★																				29.5R29
		kg lbs	9250 20400	9750 21500	10300 22700	10900 24000	11500 25400	12150 26800	12500 27600	13200 29100	13600 30000	14500 32000	15000 33100									
VSNT VSDT VSDL	Loader 10 5	★																				29.5R29
		kg lbs										16500 36400	17000 37500	18000 39700	18500 40800	19500 43000	20000 44100	20600 45400	21200 46700	22400 49400	23000 50700	

**For the Load and Inflation Pressure Tables of Radial Tires**

- 1) Maximum Speeds are as below. Earthmover Service : 50km/h (30mph), Grader Service : 40km/h (25mph), Loader & Dozer Service : 10km/h (5mph)
- 2) Figures under the star rating denote the maximum load and inflation pressures.
- 3) For Loader & Dozer Service, Dig & Load Operation or distances are up to 76m (250ft) one way.
- 4) For Load & Carry operations, tire load limit will be adjusted following the table of page 53.

Tire Size	Pattern	LI/SS	Star Rating	TRA Code or Application	Spec	TKPH	TMPH	Approximate Inflated Dimensions				OTD	Minimum Dual Spacing	Recommended Rim/Flange Height
								OD	OW	SLR	SLW			
								mm inch	mm inch	mm inch	mm inch			
29.5R29 Tubeless	VSMS		★2	L5S	D2A	-	-	2008	766	904	861	104.5	-	25.00/3.5
								79.1	30.2	35.6	33.9	-		
33.25R29 Tubeless	VLT		★2	E3	E2A E1A	349 476	239 326	2076	864	906	943	54.0	-	27.00/3.5
								81.7	34.0	35.7	37.1	-		
<b>33"</b>														
18.00R33 Tubeless	VFT		★2	E2	-	-	-	1811	500	822	567	30.5	587	13.00/2.5
								71.3	19.7	32.4	22.3	23.1		
	VEL	★2	E3	E2A E1A E3A	213	146	1805	500	835	560	35.0	587	23.1	
					180	71.1	19.7	32.9	22.0					
					210	210								
	VMTS	★2	E4	E2A E1A	199	136	1862	515	849	576	51.0	587	23.1	
					168	73.3	20.3	33.4	22.7					
	VMTP	★2	E4	E2A E1A	185	127	1870	515	846	575	55.0	587	23.1	
					157	73.6	20.3	33.3	22.6					
	VELS	★2	E4	E2A E1A E3A	170	116	1856	512	856	575	49.0	587	23.1	
145					73.1	20.2	33.7	22.6						
168														
	★3	Industrial Service	-	-	-	See characteristics page 46								
VRQP	★2	E4	E2ALS	122	84	1890	515	876	575	64.5	587	13.00/2.5		
				74.4	20.3	34.5	22.6			23.1				
VCHS	219A5	★3	Industrial Service	IDU	-	-	See characteristics page 46							
21.00R33 Tubeless	VMTP		★2	E4	E2A E1A	237 293	162 201	1998	578	909	650	61.0	701	15.00/3.0
								78.7	22.8	35.8	25.6	27.6		
	VRLS		★2	E4	E2A	227	155	1978	578	899	650	54.0	701	27.6
						77.9	22.8	35.4	25.6					
<b>21.00R33</b>														
35/65R33 Tubeless	VSNT		MS	E4	DE2	250	171	2075	904	936	976	62.5	-	28.00/3.5
								81.7	35.6	36.9	38.4	-		
				★2	L4	D2A	-	-	2075	880	936	981	62.5	-
							81.7	34.6	36.9	38.6				
	VSDT	217A2	★1	L5	D2A	-	-	2075	890	914	990	96.0	-	
							81.7	35.0	36.0	39.0				
VSDL			★2	L5	D2A	-	-	2075	880	917	951	95.0	-	
								81.7	34.6	36.1	37.4	-		
			★1			-	-	See characteristics page 46						
			★2	Industrial Service	IDU	-	-	See characteristics page 46						

**For the TKPH(TMPH) Ratings of Radial Tires**

- 1) The figures are at 38°C (or 100°F) ambient temperature. If the ambient temperature is over 38°C (or 100°F), consult a Bridgestone Representative.
- 2) If the round-trip distance is less than 5km (or 3 miles), the above ratings can be increased by 12%.
- 3) If the Maximum Speed exceeds 50km/h (or 30 mph), consult a Bridgestone Representative.
- 4) When haul length exceeds 16km (10miles) one way, consult a Bridgestone Representative.
- 5) To obtain the TKPH(TMPH) for type 2A-LS, multiply type 2A rating by 0.8.

Pattern	Application Max.Speed km/h mph	Tire Load Limits at Various Cold Inflation Pressures																			Size	
		kPa psi	275 40	300 44	325 47	350 51	375 54	400 58	425 62	450 65	475 69	500 73	525 76	550 80	575 83	600 87	625 91	650 94				
VSMS	Loader 10 5	★ kg lbs	★2																			29.5R29
			16500	17000	18000	18500	19500	20000	20600	21200	22400	23000	23600									
VLT	E/M 50 30	★ kg lbs	★2																			33.25R29
			11200	12150	12850	13600	14000	15000	15500	16500	17000	17500	18500									
			24700	26800	28300	30000	30900	33100	34200	36400	37500	38600	40800									
<b>33"</b>																						
			kPa psi	450 65	475 69	500 73	525 76	550 80	575 83	600 87	625 91	650 94	675 98	700 102								
VFT VEL VMTS VMTP VELS VRQP	E/M 50 30	★ kg lbs	★2																			18.00R33
			7750	8000	8500	8750	9000	9250	9750	10000	10300	10600	10900									
			17100	17600	18700	19300	19800	20400	21500	22000	22700	23400	24000									
			See characteristics page 47																			
			See characteristics page 47																			
VCHS VELS	IDU		See characteristics page 47																			
VMTP VRLS	E/M 50 30	★ kg lbs	★2																			21.00R33
			10000	10300	10900	11200	11500	11800	12500	12850	13200	13600	14000									
			22000	22700	24000	24700	25400	26000	27600	28300	29100	30000	30900									
			kPa psi	275 40	300 44	325 47	350 51	375 54	400 58	425 62	450 65	475 69	500 73	525 76	550 80	575 83	600 87	625 91	650 94			
VSNT VSNL VSDT VSDL	E/M 50 30	★ kg lbs	★2																			35/65R33
			10600	11500	12150	12850	13600	14000	15000	15500	16000	17000	17500									
			23400	25400	26800	28300	30000	30900	33100	34200	35300	37500	38600									
			★1																			
VSDT VSDL	Loader 10 5	★ kg lbs	★2																			
			19500	20600	21200	22400	23000	23600	25000	25750	26500	27250	28000									
			43000	45400	46700	49400	50700	52000	55100	56800	58400	60000	61500									
VSDL	IDU		See characteristics page 47																			

**For the Load and Inflation Pressure Tables of Radial Tires**

- 1) Maximum Speeds are as below. Earthmover Service : 50km/h (30mph), Grader Service : 40km/h (25mph), Loader & Dozer Service : 10km/h (5mph)
- 2) Figures under the star rating denote the maximum load and inflation pressures.
- 3) For Loader & Dozer Service, Dig & Load Operation or distances are up to 76m (250ft) one way.
- 4) For Load & Carry operations, tire load limit will be adjusted following the table of page 53.

Tire Size	Pattern	LI/SS	Star Rating	TRA Code or Application	Spec	TKPH	TMPH	Approximate Inflated Dimensions				OTD	Minimum Dual Spacing	Recommended Rim/Flange Height
								OD	OW	SLR	SLW			
								mm inch	mm inch	mm inch	mm inch			
<b>35"</b>														
21.00R35 Tubeless	VEL		★2	E3	-	-	-	1993	568	912	646	37.5	701	15.00/3.0
					-	-	-	78.5	22.4	35.9	25.4		27.6	
					E3A	410	281							
	VMTS		★2	E4	E2A	265	182	2038	575	932	655	54.0	701	
				E1A	328	225	80.2	22.6	36.7	25.8		27.6		
	VMTP		★2	E4	E2A	237	162	2048	577	922	655	61.0	701	
				E1A	293	201	80.6	22.7	36.3	25.8		27.6		
	VELS		★2	E4	E2A	227	155	2044	577	935	650	59.0	701	
				E1A	281	192	80.5	22.7	36.8	25.6		27.6		
<b>24.00R35</b>														
24.00R35 Tubeless	VEL		★2	E3	-	-	-	2123	660	950	741	44.0	795	17.00/3.5
					E1A	448	307	83.6	26.0	37.4	29.2		31.3	
		VMTS		★2	E4	-	-	-	2175	660	980	734	59.0	795
						-	-	-	85.6	26.0	38.6	28.9		31.3
					E3A	489	335							
	VMTP		★2	E4	E2A	314	215	2194	660	975	734	68.0	795	
				E1A	388	266	86.4	26.0	38.4	28.9		31.3		
	VRLS		★2	E4	E2A	314	215	2175	660	980	734	59.0	795	
					E1A	388	266	85.6	26.0	38.6	28.9		31.3	
				E3A	453	310								
	VRQP		★2	E4	E2ALS	207	142	2194	660	995	745	71.5	795	
								86.4	26.0	39.2	29.3		31.3	
<b>29.5R35</b>														
29.5R35 Tubeless	VRL		★2	E3	-	-	-	2120	768	932	844	39.5	-	25.00/3.5
				E1A	380	260	83.5	30.2	36.7	33.2		-		
<b>33.25R35</b>														
33.25R35 Tubeless	VRL		★2	E3	-	-	-	2228	846	990	970	49.0	-	27.00/3.5
				E1A	472	323	87.7	33.3	39.0	38.2		-		
<b>37.25R35</b>														
37.25R35 Tubeless	VLT		★2	E3	E2A	417	286	2388	954	1054	1063	59.5	-	31.00/4.0
					E1A	569	390	94.0	37.6	41.5	41.9		-	
	VRL		★2	E3	-	-	-	2370	954	1045	1063	51.0	-	
				E1A	563	386	93.3	37.6	41.1	41.9		-		
<b>39"</b>														
37.5R39 Tubeless	VKT		★2	E2	-	-	-	2524	982	1120	1080	51.0	-	32.00/4.5
				E1A	696	477	99.4	38.7	44.1	42.5		-		
<b>40.5/75R39</b>														
40.5/75R39 Tubeless	VLT		★2	E3	E2A	500	342	2609	1002	1157	1127	58.5	-	32.00/4.5
					E1A	682	467	102.6	39.4	45.6	44.4		-	
	VRL		★2	E3	-	-	-	2588	1002	1147	1125	48.5	-	
				E1A	675	462	101.9	39.4	45.2	44.3		-		

**For the TKPH(TMPH) Ratings of Radial Tires**

- 1) The figures are at 38°C (or 100°F) ambient temperature. If the ambient temperature is over 38°C (or 100°F), consult a Bridgestone Representative.
- 2) If the round-trip distance is less than 5km (or 3 miles), the above ratings can be increased by 12%.
- 3) If the Maximum Speed exceeds 50km/h (or 30 mph), consult a Bridgestone Representative.
- 4) When haul length exceeds 16km (10miles) one way, consult a Bridgestone Representative.
- 5) To obtain the TKPH(TMPH) for type 2A-LS, multiply type 2A rating by 0.8.

Pattern	Application Max.Speed km/h mph	Tire Load Limits at Various Cold Inflation Pressures													Size
		kPa psi	450 65	475 69	500 73	525 76	550 80	575 83	600 87	625 91	650 94	675 98	700 102		
<b>35"</b>															
VEL VMTS VMTP VELS	E/M 50 30	★	★2											21.00R35	
		kg	10300	10600	11200	11500	11800	12150	12850	13200	13600	14000	14500		
		lbs	22700	23400	24700	25400	26000	26800	28300	29100	30000	30900	32000		
VEL VMTS VMTP VRLS VRQP	E/M 50 30	★	★2											24.00R35	
		kg	13200	13600	14000	14500	15500	16000	16500	17000	17500	18000	18500		
		lbs	29100	30000	30900	32000	34200	35300	36400	37500	38600	39700	40800		
<b>29.5R35</b>															
VRL	E/M 50 30	★	★2											29.5R35	
		kg	10000	10600	11200	11800	12500	13200	13600	14500	15000	15500	16000		
		lbs	22000	23400	24700	26000	27600	29100	30000	32000	33100	34200	35300		
<b>33.25R35</b>															
VRL	E/M 50 30	★	★2											33.25R35	
		kg	12150	12850	14000	14500	15500	16000	17000	17500	18500	19000	20000		
		lbs	26800	28300	30900	32000	34200	35300	37500	38600	40800	41900	44100		
<b>37.25R35</b>															
VLT VRL	E/M 50 30	★	★2											37.25R35	
		kg	14500	15500	16500	17500	18500	19500	20600	21200	22400	23000	23600		
		lbs	32000	34200	36400	38600	40800	43000	45400	46700	49400	50700	52000		
<b>39"</b>															
VKT	E/M 50 30	★	★2											37.5R39	
		kg	16000	17000	18000	19000	20000	21200	21800	23000	23600	25000	25750		
		lbs	35300	37500	39700	41900	44100	46700	48100	50700	52000	55100	56800		
<b>40.5/75R39</b>															
VLT VRL	E/M 50 30	★	★2											40.5/75R39	
		kg	18000	19000	20600	21800	22400	23600	25000	25750	27250	28000	29000		
		lbs	39700	41900	45400	48100	49400	52000	55100	56800	60000	61500	64000		

**For the Load and Inflation Pressure Tables of Radial Tires**

- 1) Maximum Speeds are as below. Earthmover Service : 50km/h (30mph), Grader Service : 40km/h (25mph), Loader & Dozer Service : 10km/h (5mph)
- 2) Figures under the star rating denote the maximum load and inflation pressures.
- 3) For Loader & Dozer Service, Dig & Load Operation or distances are up to 76m (250ft) one way.
- 4) For Load & Carry operations, tire load limit will be adjusted following the table of page 53.



Tire Size	Pattern	LI/SS	Star Rating	TRA Code or Application	Spec	TKPH	TMPH	Approximate Inflated Dimensions				OTD	Minimum Dual Spacing	Recommended Rim/Flange Height
								OD	OW	SLR	SLW			
								mm inch	mm inch	mm inch	mm inch			
33.00R51 Tubeless	VMT		★2	E3	-	-	-	2988	932	1338	1052	48.0	1074	24.00/5.0
					E1A	1018	697	117.6	36.7	52.7	41.4		42.3	
					E3A	1209	828							
	VMTP		★2	E4	E2A	591	405	3063	932	1376	1052	89.5	1074	
				E1A	700	479	120.6	36.7	54.2	41.4		42.3		
36.00R51 Tubeless	VHS		★2	E2	-	-	-	3108	1015	1390	1163	44.0	1184	26.00/5.0
					-	-	-	122.4	40.0	54.7	45.4		46.6	
					E3A	1485	1017							
	VRLS		★2	E4	E2A	642	440	3204	1015	1431	1153	86.5	1184	
				E1A	781	535	126.1	40.0	56.3	45.4		46.6		
				E3A	927	635								
50/65R51 Tubeless	VSDL		★2	L5	D2A	-	-	3070	1278	1347	1361	128.0	-	40.00/4.5
								120.9	50.3	53.0	53.6		-	
57"														
37.00R57 Tubeless	VZTS		★2	E4	E2A	694	475	3422	1044	1541	1190	87.5	1217	27.00/6.0
					E1A	845	579	134.7	41.1	60.7	46.9		47.9	
					E3A	1003	687							
	VELSL		★2	E4	-	-	-	3388	1044	1524	1190	77.0	1217	27.00/6.0
					-	-	-	133.4	41.1	60.0	46.9		47.9	
					E3A	1148	786							
	VRLS		★2	E4	E2A	694	475	3410	1044	1535	1190	87.5	1217	27.00/6.0
					E1A	845	579	134.3	41.1	60.4	46.9		47.9	
					E3A	1003	687							
42/90R57 Tubeless	VRDP		★2	E4	E2A	715	490	3456	1060	1539	1210	97.0	1323	27.00/6.0
					E1A	870	596	136.1	41.7	60.6	47.7		52.1	
					E3A	1033	708							
40.00R57 Tubeless	VMT		★2	E3	E2A	1204	825	3512	1108	1560	1264	64.0	1311	29.00/6.0
					E1A	1463	1002	138.3	43.6	61.4	49.8		51.6	
					E3A	1739	1191							
	VZTS		★2	E4	E2A	773	529	3585	1140	1606	1289	91.5	1311	
					E1A	940	644	141.1	44.9	63.2	50.7		51.6	
					E3A	1117	765							
	VELSL		★2	E4	-	-	-	3542	1108	1575	1264	80.0	1311	29.00/6.0
					-	-	-	139.4	43.6	62.0	49.8		51.6	
					E3A	1330	911							
	VELS		★2	E4	E2A	773	529	3562	1127	1582	1291	91.5	1311	
					E1A	940	644	140.2	44.4	62.3	50.8		51.6	
					E3A	1117	765							
	VRDP		★2	E4	E2A	773	529	3575	1108	1591	1264	97.0	1311	29.00/6.0
					E1A	940	644	140.7	43.6	62.6	49.8		51.6	
					E3A	1117	765							
	VRPS		★2	E4	E2A	773	529	3575	1108	1591	1264	97.0	1311	
					E1A	940	644	140.7	43.6	62.6	49.8		51.6	
					E3A	1117	765							
46/90R57 Tubeless	VZTP		★2	E4	E2A	766	401	3585	1145	1591	1299	97.0	1412	29.00/6.0 (32.00/6.0)
					E1A	927	635	141.1	45.1	62.6	51.1		55.6	
					E3A	1103	755							
	VELS		★2	E4	E2A	796	545	3557	1145	1577	1299	88.0	1412	29.00/6.0 (32.00/6.0)
					E1A	968	663	140.0	45.1	62.1	51.1		55.6	
					E3A	1150	788							

**For the TKPH(TMPH) Ratings of Radial Tires**

- 1) The figures are at 38°C (or 100°F) ambient temperature. If the ambient temperature is over 38°C (or 100°F), consult a Bridgestone Representative.
- 2) If the round-trip distance is less than 5km (or 3 miles), the above ratings can be increased by 12%.
- 3) If the Maximum Speed exceeds 50km/h (or 30 mph), consult a Bridgestone Representative.
- 4) When haul length exceeds 16km (10miles) one way, consult a Bridgestone Representative.
- 5) To obtain the TKPH(TMPH) for type 2A-LS, multiply type 2A rating by 0.8.

Pattern	Application Max.Speed km/h mph	Tire Load Limits at Various Cold Inflation Pressures																Size
		kPa psi	400 58	425 62	450 65	475 69	500 73	525 76	550 80	575 83	600 87	625 91	650 94	675 98	700 102			
		★	★2															
VMT VMTP VRLS VRDP	E/M 50 30	★	★2														33.00R51	
		kg		27250	29000	30000	30750	32500	33500	34500	35500	36500	37500	38750				
		lbs		60000	64000	66000	68000	71500	74000	76000	78500	80500	82500	85500				
VHS VRLS		★	★2														36.00R51	
		kg		33500	35500	36500	37500	38750	40000	41250	42500	43750	45000	46250				
		lbs		74000	78500	80500	82500	85500	88000	91000	93500	96500	99000	102000				
VSDL Loader	10 5	★	★2														50/65R51	
		kg	45000	47500	50000	51500	54500	56000	58000	60000	61500	63000	65000					
		lbs	99000	104500	110000	113500	120000	123000	127500	131500	135500	139000	143500					
57"																		
VZTS VELSL VRLS	E/M 50 30	★	★2														37.00R57	
		kg		37500	38750	40000	41250	43750	45000	46250	47500	48750	50000	51500				
		lbs		82500	85500	88000	91000	96500	99000	102000	104500	107500	110000	113500				
VRDP		★	★2														42/90R57	
		kg		38750	40000	41250	42500	45000	46250	47500	48750	50000	51500	53000				
		lbs		85500	88000	91000	96500	99000	102000	104500	107500	110000	113500	117000				
VMT VZTS VELSL VELS VRDP VRPS		★	★2														40.00R57	
		kg		42500	45000	46250	48750	50000	51500	53000	54500	56000	58000	60000				
		lbs		93500	99000	102000	107500	110000	113500	117000	120000	123500	128000	132500				
VZTP VELS		★	★2														46/90R57	
		kg		45000	47500	48750	51500	53000	54500	56000	58000	60000	61500	63000				
		lbs		99000	104500	107500	113500	117000	120000	123500	128000	132500	135500	139000				

**For the Load and Inflation Pressure Tables of Radial Tires**

- 1) Maximum Speeds are as below. Earthmover Service : 50km/h (30mph), Grader Service : 40km/h (25mph), Loader & Dozer Service : 10km/h (5mph)
- 2) Figures under the star rating denote the maximum load and inflation pressures.
- 3) For Loader & Dozer Service, Dig & Load Operation or distances are up to 76m (250ft) one way.
- 4) For Load & Carry operations, tire load limit will be adjusted following the table of page 53.

Tire Size	Pattern	LI/SS	Star Rating	TRA Code or Application	Spec	TKPH	TMPH	Approximate Inflated Dimensions				OTD	Minimum Dual Spacing	Recommended Rim/Flange Height
								OD	OW	SLR	SLW			
								mm inch	mm inch	mm inch	mm inch			
46/90R57 Tubeless	VRDP		★2	E4	E2A E1A E3A	796 968 1150	545 663 788	3575 140.7	1145 45.1	1586 62.4	1299 51.1	97.0	1412 55.6	29.00/6.0 (32.00/6.0)
	VRPS		★2	E4	E2A E1A E3A	796 968 1150	545 663 788	3575 140.7	1145 45.1	1586 62.4	1299 51.1	97.0	1412 55.6	
55.5/80R57 Tubeless	VSDL			L5	D2A	-	-	3740 147.2	1410 55.5	1634 64.3	1616 63.6	125.5	-	44.00/6.0
50/90R57 Tubeless	VELS		★2	E4	- E1A E3A	- 1092 1278	- 748 875	3825 150.6	1283 50.5	1694 66.7	1471 57.9	91.5	1562 61.5	32.00/6.5 34.00/6.5
	VRPS		★2	E4	E2A E1A E3A	884 1092 1278	605 748 875	3840 151.2	1283 50.5	1702 67.0	1471 57.9	107.0	1562 61.5	
<b>New</b> 60/80R57 Tubeless	VSDL			L5	D2A	-	-	3952 155.6	1491 58.7	1738 68.4	1755 69.1	118	-	47.00/6.0
<b>63"</b>														
53/80R63 Tubeless	VRF		★2	E3	- - E3A	- - 1628	- - 1115	3741 147.3	1311 51.6	TBA TBA	TBA TBA	64.0	1626 64.0	36.00/5.0
	VRLSA		★2	E4	E2A E1A E3A	1045 1233 1512	716 845 1036	3780 148.8	1300 51.2	1630 64.2	1511 59.5	83.5	1626 64.0	
	VRDP		★2	E4	E2A E1A E3A	974 1150 1408	667 788 964	3828 150.7	1304 51.3	1657 65.2	1511 59.5	110.0	1626 64.0	
	VRPS		★2	E4	E2A E1A E3A	974 1150 1408	667 788 964	3828 150.7	1304 51.3	1657 65.2	1511 59.5	110.0	1626 64.0	
59/80R63 Tubeless	VRD		★2	E3	- E1A E3A	- 1784 2050	- 1222 1404	4020 158.3	1466 57.7	1710 67.3	1712 67.4	71.0	1780 70.0	44.00/5.0
					- E1A E3A	- 1686 1937	- 1155 1327					41.00/5.0		
	VRF		★2	E3	- E1A E3A	- 1784 2050	- 1222 1404	4022 158.3	1459 57.4	1710 67.3	1712 67.4	71.0	1780 70.0	44.00/5.0
					- E1A E3A	- 1686 1937	- 1155 1327					41.00/5.0		
	VRDP		★2	E4	E2A E1A E3A	1228 1515 1773	841 1038 1214	4017 158.1	1467 57.8	1710 67.3	1712 67.4	116.0	1780 70.0	44.00/5.0
					E2A E1A E3A	1160 1431 1675	794 980 1147					41.00/5.0		
					E2A E1A E3A	1228 1515 1773	841 1038 1214	4017 158.1	1467 57.8	1710 67.3	1712 67.4	116.0	1780 70.0	44.00/5.0
					E2A E1A E3A	1160 1431 1675	794 980 1147					41.00/5.0		
<b>New</b> VRPS		★2	E4	E2A E1A E3A	1228 1515 1773	841 1038 1214	4017 158.1	1467 57.8	1710 67.3	1712 67.4	116.0	1780 70.0	44.00/5.0	
				E2A E1A E3A	1160 1431 1675	794 980 1147					41.00/5.0			
				E2A E1A E3A	1228 1515 1773	841 1038 1214	4017 158.1	1467 57.8	1710 67.3	1712 67.4	116.0	1780 70.0	44.00/5.0	
				E2A E1A E3A	1160 1431 1675	794 980 1147					41.00/5.0			

**For the TKPH(TMPH) Ratings of Radial Tires**

- 1) The figures are at 38°C (or 100°F) ambient temperature. If the ambient temperature is over 38°C (or 100°F), consult a Bridgestone Representative.
- 2) If the round-trip distance is less than 5km (or 3 miles), the above ratings can be increased by 12%.
- 3) If the Maximum Speed exceeds 50km/h (or 30 mph), consult a Bridgestone Representative.
- 4) When haul length exceeds 16km (10miles) one way, consult a Bridgestone Representative.
- 5) To obtain the TKPH(TMPH) for type 2A-LS, multiply type 2A rating by 0.8.

Pattern	Application Max.Speed km/h mph	Tire Load Limits at Various Cold Inflation Pressures																Size	
		kPa psi	400 58	425 62	450 65	475 69	500 73	525 76	550 80	575 83	600 87	625 91	650 94	675 98	700 102				
VRDP VRPS	E/M 50 30	★ kg lbs	★2 45000 47500 48750 51500 53000 54500 56000 58000 60000 61500 63000 99000 104500 107500 113500 117000 120000 123500 128000 132500 135500 139000																46/90R57
VSDL	Loader 10 5	★ kg lbs	★2 82500 85000 90000 92500 95000 97500 100000 103000 106000 182000 187500 198000 203500 209000 214500 220500 227000 233500																55.5/80R57
VELS VRPS	E/M 50 30	★ kg lbs	★2 56000 58000 60000 63000 65000 67000 69000 71000 73000 75000 77500 123500 128000 132500 139000 143500 147500 152000 156500 161000 165500 171000																50/90R57
VSDL	Loader 10 5	★ kg lbs	★2 82000 85750 89500 93250 97000 100500 104000 107750 111000 114750 118000 180500 189250 197500 205500 213500 221500 229500 237250 245000 252500 260000																60/80R57
<b>63"</b>																			
VRF VRLSA VRDP VRPS	E/M 50 30	★ kg lbs	★2 67000 69000 71000 75000 77500 80000 82500 147500 152000 156500 165500 171000 176500 182000																53/80R63
VRD VRF VRDP VRPS		★ kg lbs	★2 80000 82500 87500 90000 92500 95000 100000 * 44.00/5.0 Rim 176500 182000 193000 198500 204000 209500 220500																59/80R63
		★ kg lbs	★2 77000 79000 84000 86000 89000 91000 96000 * 41.00/5.0 Rim 169300 174600 185200 190500 195800 201050 211650																

**For the Load and Inflation Pressure Tables of Radial Tires**

- 1) Maximum Speeds are as below. Earthmover Service : 50km/h (30mph), Grader Service : 40km/h (25mph), Loader & Dozer Service : 10km/h (5mph)
- 2) Figures under the star rating denote the maximum load and inflation pressures.
- 3) For Loader & Dozer Service, Dig & Load Operation or distances are up to 76m (250ft) one way.
- 4) For Load & Carry operations, tire load limit will be adjusted following the table of page 53.

Tire Size	Pattern	LI/SS	Star Rating	TRA Code or Application	Approximate Inflated Dimensions				OTD mm	Minimum Dual Spacing mm inch	Recommended Rim/Flange Height inch
					OD	OW	SLR	SLW			
					mm inch	mm inch	mm inch	mm inch			
<b>Industrial Service</b>											
<b>20"</b>											
12.00R20	VCH		★3	Industrial Service	1140 44.9	315 12.4	512 20.2	360 14.2	29.5	380 15.0	8.50V
	VCHS	176A5	★3	Industrial Service	1139 44.8	297 11.7	507 20.0	355 14.0	41.5	375 14.8	
<b>24"</b>											
12.00R24	VCH		★2	Industrial Service	1254 49.4	323 12.7	558 22.0	376 14.8	29.5	- -	8.50V
14.00R24	VHB		★3	Industrial Service	1357 53.4	383 15.1	630 24.8	410 16.1	23.5	450 17.7	10.00W
	VCH		★3	Industrial Service	1393 54.8	390 15.4	610 24.0	460 18.1	32.0	480 18.9	
	VCHS	196A5	★3	Industrial Service	1412 55.6	383 15.1	626 24.6	445 17.5	63.0	480 18.9	
<b>New</b> 14.00R24 TG Tubeless	VCHS	196A5	★3	Industrial Service							10.00VA
<b>25"</b>											
16.00R25 Tubeless	VHB		★2	Industrial Service	1484 58.4	440 17.3	690 27.2	475 18.7	22.5	513 20.2	11.25/2.0
	VCHD		★2	Industrial Service	1500 59.1	435 17.1	655 25.8	503 19.8	54.0	523 20.6	
	VRLS		★2	Industrial Service	1531 60.3	448 17.6	713 28.1	488 17.6	45.0	540 21.3	
18.00R25 Tubeless	VHB		★3	Industrial Service	1610 63.4	515 20.3	733 28.9	565 22.2	26.0	587 23.1	13.00/2.5
	VEL		★3	Industrial Service	1609 63.3	507 20.0	727 28.6	571 22.5	34.0	612 24.1	
	VCHS	214A5	★3	Industrial Service	1650 65.0	504 19.8	707 27.8	596 23.5	64.0	600 23.6	
	VSMS		★2	Industrial Service	1681 66.2	512 20.2	730 28.7	592 23.3	84.5	612 24.1	
23.5R25 Tubeless	VSDL		★2	Industrial Service	1672 65.8	608 23.9	755 29.7	687 27.0	87.0	722 28.4	19.50/2.5
<b>33"</b>											
18.00R33 Tubeless	VCHS	219A5	★3	Industrial Service	1856 73.1	508 20.0	803 31.6	585 23.0	68.5	600 23.6	13.00/2.5
	VELS		★3	Industrial Service	1860 73.2	512 20.2	800 31.5	604 23.8	49.0	634 25.0	
35/65R33 Tubeless	VSDL		★2	Industrial Service	2075 81.7	880 34.6	900 35.4	986 38.8	95.0	- -	28.00/3.5

**Off-the-Road Tires Used for Industrial Vehicle Applications**

- 1) Industrial Vehicles comprise vehicles such as counter-balanced lift trucks, container handlers, straddle carriers, aircraft tow tractors, mobile crushers, log stackers etc., used on hard improved surfaces, smooth floors and runways.
- 2) Use Specifications of **Industrial Service only**.

Pattern	Application	Star Rating	Inflation Pressure	Tire Load Limits at Various Speeds												Size
				kPa psi	km/h mph	0 Static	Creep Creep	5 3	10 5	15 9	20 12	25 15	30 19	35 22		
<b>Industrial Service</b>																
<b>20"</b>																
VCH	IDU	★3	Load	1000	kg	9250	9250	9250	9250	9250	9250	9250	9250	9000	9000	12.00R20
VCHS			Wheel	145	lbs	20400	20400	20400	20400	20400	20400	20400	20400	19800	19800	
			Steering Wheel	145	lbs	15700	15700	15700	15700	15700	15700	15700	15700	14300	14300	
<b>24"</b>																
VCH	IDU	★2	Load	960	kg	12500	10900	10000	9250	9000	8750	8500				12.00R24
			Wheel	139	lbs	27600	24000	22000	20400	19800	19300	18700				
			Steering Wheel	139	lbs	22000	19300	17600	16500	15700	15200	15200				
VHB	IDU	★3	Load	1000	kg	18000	16000	14500	13600	12850	12850	12500	12500			14.00R24
VCHS			Wheel	145	lbs	39700	35300	32000	30000	28300	28300	27600	27600			
			Steering Wheel	145	lbs	32000	28300	25400	24000	22700	22700	22000	22000			
VCHS	IDU	★3	Load	1000	kg	18000	16000	14500	13600	12850	12850	12500	12500			14.00R24 TG
			Wheel	145	lbs	39700	35300	32000	30000	28300	28300	27600	27600			
			Steering Wheel	145	lbs	32000	28300	25400	24000	22700	22700	22000	22000			
<b>25"</b>																
VHB	IDU	★2	Load	960	kg	21800	19500	17500	16500	16000	15500	15000	15000			16.00R25
VCHD			Wheel	139	lbs	48100	43000	38600	36400	35300	34200	33100	33100			
VRLS			Steering Wheel	139	lbs	38600	34200	30900	29100	27600	27600	26800	26800			
VHB	IDU	★3	Load	1000	kg	30750	27250	24300	23000	22400	21800	21200	21200			18.00R25
VEL			Wheel	145	lbs	68000	60000	53600	50700	49400	48100	46700	46700			
VCHS			Steering Wheel	145	lbs	55100	48100	43000	40800	38600	38600	37500	37500			
VSMS	IDU	★2		960	kg	29000	25750	23000	21800	20600	20600	20000	20000			18.00R25
				139	lbs	64000	56800	50700	48100	45400	45400	44100	44100			
VSDL	IDU	★2		690	kg	26100	23200	21025	19575	18850	18415	18125	17980			23.5R25
				100	lbs	57550	51160	46360	43160	41560	40610	39970	39650			
<b>33"</b>																
VCHS	IDU	★3	Load	1000	kg	35500	31500	28000	26500	25000	25000	24300	24300			18.00R33
VELS			Wheel	145	lbs	78500	69500	61500	58400	55100	55100	53600	53600			
			Steering Wheel	145	lbs	61500	55100	49400	46700	44100	44100	43000	43000			
VSDL	IDU	★2		780	kg	50400	44800	40600	37800	36400	35560	35000			35/65R33	
				113	lbs	111100	98750	89500	83350	80250	78400	77150				

- 3) Consult a Rim Manufacturer when inflation pressure exceeds 800kPa (116psi).
- 4) For Speeds exceeding 30km/h (18mph), consult a Bridgestone Representative.
- 5) For tire sizes and star ratings other than listed above, consult a Bridgestone Representative.

Tire Size	Pattern	LI/SS	Star Rating	TRA Code or Application	Approximate Inflated Dimensions				OTD	Minimum Dual Spacing	Recommended Rim/Flange Height
					OD	OW	SLR	SLW			
					mm inch	mm inch	mm inch	mm inch			
<b>High-Speed Service</b>											
<b>21"</b>											
24R21 Tubeless	VGT		★1	High-Speed Service	1380	601	623	647	24.5	-	18.00/1.5
					54.3	23.7	24.5	25.5		-	
<b>24"</b>											
385/95R24 (14.00R24)	VSB	170E		High-Speed Service	1365	390	628	433	21.0	450	10.00W
					53.7	15.4	24.7	17.0		17.7	
	VHB	170E	★3	High-Speed Service	1357	383	630	410	23.5	450	
					53.4	15.1	24.8	16.1		17.7	
	VHS	170E	★3	High-Speed Service	1356	384	626	422	23.0	450	
					53.4	15.1	24.6	16.6		17.7	
<b>25"</b>											
385/95R25 (14.00R25) Tubeless	VSB	170E		High-Speed Service	1365	390	628	433	21.0	450	10.00/1.5
					53.7	15.4	24.7	17.0		17.7	
	VHS	170E	★3	High-Speed Service	1356	384	626	422	23.0	450	
		New 170F			53.4	15.1	24.6	16.6		17.7	
	VSW	170E	★3	High-Speed Service	1355	394	631	427	23.5	450	
					53.3	15.5	24.8	16.8		17.7	
445/95R25 (16.00R25) Tubeless	VKT	177E	★2	High-Speed Service	1480	428	717	474	28.5	513	11.25/2.0
					58.3	16.9	28.2	18.7		20.2	
	VHB	177E	★2	High-Speed Service	1484	440	690	475	22.5	513	
					58.4	17.3	27.2	18.7		20.2	
	VHS	177E	★2	High-Speed Service	1484	435	684	480	25.5	513	
		New 174F			58.4	17.1	26.9	18.9		20.2	
	VSW	177E	★2	High-Speed Service	1484	435	695	476	23.0	513	
					58.4	17.1	27.4	18.7		20.2	
445/80R25 (17.5R25) Tubeless	VGT	170E	★2	High-Speed Service	1339	440	610	485	24.0	-	14.00/1.5
					52.7	17.3	24.0	19.1		-	
505/95R25 (18.00R25) Tubeless	VHB	186E	★2	High-Speed Service	1590	510	778	565	26.0	587	13.00/2.5
					62.6	20.1	30.6	22.2		23.1	
	VHS	186E	★2	High-Speed Service	1593	505	727	565	26.0	587	
					62.7	19.9	28.6	22.2		23.1	
525/80R25 (20.5R25) Tubeless	VHS	179E	★2	High-Speed Service	1480	533	677	578	31.0	-	17.00/2.0
					58.3	21.0	26.7	22.8		-	

Pattern	Application	Star Rating	Inflation Pressure	Tire Load Limits at Various Speeds																Size	
				kPa psi	km/h mph	88 55															
<b>High-Speed Service</b>				*Consult a Rim Manufacturer when inflation pressure exceeds 800kPa (116psi).																	
<b>21"</b>																				24R21	
VGT	High-Speed	★1	85	580	kg lbs	7120															
<b>24"</b>							0	Creep	5	10	15	20	30	40	50	60	70	80	90	100	385/95R24 (14.00R24)
				kPa psi	km/h mph	Static	Creep	3	5	9	12	19	25	31	37	43	50	56	62		
VSB	High-Speed	★3*		900	kg lbs	17700	14400	12700	11000	9850	8900	7800	7450	7100	6700	6000	4925	4200	3600		
VHB				131		39000	31700	28100	24300	21700	19600	17200	16400	15600	14800	13200	10800	9250	7950		
VHS				*VSB's star rating is equivalent to ★3.																	
<b>25"</b>																					385/95R25 (14.00R25)
VSB	High-Speed	★3*		900	kg lbs	17700	14400	12700	11000	9850	8900	7800	7450	7100	6700	6000	4925	4200	3600		
VHS				131		39000	31700	28100	24300	21700	19600	17200	16400	15600	14800	13200	10800	9250	7950		
VSW	(170E)			*VSB's star rating is equivalent to ★3.																	
VHS	High-Speed	★3		900	kg lbs	15000		12600	10800	9900	9000	7500	6900	6720	6600	6300	8000	5640	5100		
(170F)				131		33070		27780	23810	21830	19850	16540	15220	14820	14560	13890	13230	12440	11250		
<b>445/95R25 (16.00R25)</b>																					445/95R25 (16.00R25)
VKT	High-Speed	★2		900	kg lbs	21500	17500	15500	13400	12000	10800	9500	9050	8600	8100	7300	6000	5100	4375		
VHB				131		47500	38500	34200	29600	26400	23800	20900	20000	19000	18000	16100	13200	11300	9650		
VHS				*VSB's star rating is equivalent to ★3.																	
VSW	(177E)																				
VHS	High-Speed	★3		900	kg lbs	16750		14070	12060	11055	10050	8375	7705	7505	7370	7035	6700	6300	5695		
(174F)				131		36930		31020	26590	24380	22160	18470	16990	16550	16250	15510	14780	13890	12560		
<b>445/80R25 (17.5R25)</b>																					445/80R25 (17.5R25)
VGT	High-Speed	★2		700	kg lbs	17700	14400	12700	11000	9850	8900	7800	7450	7100	6700	6000	4925	4200	3600		
				102		39000	31700	28100	24300	21700	19600	17200	16400	15600	14800	13200	10800	9250	7950		
<b>505/95R25 (18.00R25)</b>																					505/95R25 (18.00R25)
VHB	High-Speed	★2		900	kg lbs	28000	22700	20200	17500	15600	14100	12300	11800	11200	10600	9500	7800	6650	5700		
VHS				131		61800	50200	44500	38500	34300	31000	27200	26000	24700	23400	20900	17200	14700	12600		
<b>525/80R25 (20.5R25)</b>																					525/80R25 (20.5R25)
VHS	High-Speed	★2		700	kg lbs	22900	18600	16500	14300	12700	11500	10100	9600	9150	8700	7750	6350	5400	4650		
				102		50400	40900	36300	31400	28000	25300	22200	21200	20200	19100	17100	14000	12000	10200		

Tire Size	Pattern	LI/SS	Star Rating	TRA Code or Application	Approximate Inflated Dimensions				OTD	Minimum Dual Spacing	Recommended Rim/Flange Height
					OD	OW	SLR	SLW			
					mm <i>inch</i>	mm <i>inch</i>	mm <i>inch</i>	mm <i>inch</i>			
<b>Sand Service 20"</b>											
16.00R20	VSJ		28	E7	1315 <i>51.8</i>	414 <i>16.3</i>	590 <i>23.2</i>	475 <i>18.7</i>	18.5	520 <i>20.5</i>	10.00W
<b>25"</b>											
21.00R25 Tubeless	VSJ			E7	1728 <i>68.0</i>	584 <i>23.0</i>	784 <i>30.9</i>	649 <i>25.6</i>	22.5	685 <i>27.0</i>	15.00/3.0

Pattern	Application	Ply Rating	Max. Speed	Tire Cold Inflation Pressures at Various Load Limits														Size		
				kg lbs	4250 9370	4500 9920	4750 10470	5000 11020	5250 11570	5500 12130	6000 13230	7000 15430	8000 17640	8500 18740	9000 19840	9500 20940				
<b>Sand Service 20"</b>																16.00R20				
*It is Recommended that 90% of the below indicated loads per tire is to be applied when used on a dual axle.																				
VSJ	Sand	28PR	65km/h	kPa	490	540	580	630	680	720										
			40mph	psi	71	78	84	91	98	105										
			50km/h	kPa	390	420	450	490												
			30mph	psi	57	61	65	71												
			16km/h	kPa	280	300	320	350												
			10mph	psi	41	44	47	51												
<b>25"</b>																21.00R25				
VSJ	Sand	-	65km/h	kPa						330	410	490	540	590	630					
			40mph	psi						48	60	71	78	85	92					
			50km/h	kPa						260	320	390	420							
			30mph	psi						38	47	57	61							
			16km/h	kPa						200	230	280	300							
			10mph	psi						28	34	41	44							

## 4. Remarks

### 4.1 Excess Load

Due to the specialized nature of Off-The-Road vehicle usage, loads in excess of those in the appropriate above-listed load tables are often encountered.

These excess loads result from items such as actual vehicle weight exceeding the design weight, varying density of materials, field modifications to the equipment, load transfer, etc.

Only under these conditions, the actual tire load in service may exceed the above load ratings for the tire(\*) by an amount not greater than shown in the following table:

	E2, E3, E4*	L**
Maximum Excess Load	7%	7%
Maximum Excess Pressure	14%	14%
Maximum Pressure	<b>800kPa</b>	<b>825kPa</b>
	116psi	120psi

When excess loads are encountered, cold inflation pressures must be increased to compensate for higher loads. For each 1% increase in load, the inflation pressure must be increased by 2%.

\*except following sizes on the list

11.00R20	335/80R20	405/70R20	12.00R24
12.00R20	365/80R20	12R22.5	

\*\*except 55.5/80R57 and 60/80R57

**The maximum excess loads will result in reduced tire performance.**

### 4.2 The Variation in Load Carrying Capacity with Operating Speed

Operating Speed (km/h)	E2, E3	E4	G	L**
Static				+60%
Creep	*			+30%
4				+15%
10				0
15	+12%		-	-13%
20	+10%			-
25	+8%			-20%
30	+6%			
35	+4%			
40	+3%		0	
45	+2%		-	
50	0		-9%	
55	-2%		-	
60	-6%		-18%	
65	-12%		-27%	
70	-20%*	*		
75	-30%*	*		
80	-42%*	*		
80<	*	*		

■ Reference speed for calculating load variance  
 \* Consult a Bridgestone Representative  
 \*\* About the size of 55.5/80R57 and 60/80R57, consult a Bridgestone representative.

### 4.3 Load-and-Carry Operations for Front End Loader Service

Service conditions of a loader is defined as "picking up material and relocating a short distance away, a maximum of 76m (250 feet), one way, with a maximum speed of 10km/h (5mph)". However, a loader can pick up a load and transport such load to another location and return unloaded for a longer distance. This type of service is called **Load-and-Carry** operations. Transportation usually occurs at low speeds, up to 25km/h (15mph), and distances are limited.

The tires when used in Load-and-Carry operations may encounter heat problems especially on the front axle tires. To avoid such problems, Bridgestone recommends the following operating conditions.

For tires over 33" inch rim diameter tires, careful study is required to maximize tire life while considering Ton-Kilometer-Per-Hour (Ton-Mile-Per-Hour) limits. Please consult Bridgestone representative for more information.

If you need to use the tire beyond this recommendation, please consult Bridgestone representative.



#### For Radial Tires

Tread Class	Inflation Pressure						Load Capacity* 10km/h (5mph)	Maximum Cycle Distance (m)	Allowable Average Work-shift Speed (km/h)
	Rim Diameter								
	29" and below			33" and above					
	Conventional size (95 series)	Wide base size (85, 65 series)		Wide base size (65 series)					
*	**	*	**	*	**				
L2, L3							100% of STD.load	1800	16
L4	550kpa (80psi)	825kpa (120psi)	500kpa (73psi)	650kpa (94psi)	600kpa (87psi)	750kpa (109psi)		1500 (VSDT)	14
L5								1200 (VSDL)	10
L5S								1200	6
								1200	5

\* STD.load: Maximum permissible load at standard inflation pressure for respective tire size and star rating. Please refer to the load - inflation pressure table for loader and dozer service "10km/h (5mph) service".

# BIAS TIRE

## 1. Tread Designs

### ■ Earthmover Service

**E3**



W-LUG  
(WL)

R-LUG  
(RL)

V-LUG2  
(VL2)

**E4**



R-LUG S  
(RLS)

E-LUG S2  
(ELS2)

**L4**



R-LUG S  
(RLS)

N-LUG  
(NL)

**L5**



D-LUG  
(DL)

**L5S**



SMOOTH TREAD-MS  
(STMS)

### ■ Sand Service

**E7**



SAND CLIPPER-2  
(SCP2)

### ■ Grader Service

**G1**



RIB GRADER  
(RG)

**G2**



G-LUG  
(GL)

FAST GRIP  
(FG)

### ■ Compactor Service

**C1**



ROAD ROLLER  
(RR)

**C2**



ALLIGATOR2  
(AL2)

### ■ Logging Service

**LS2**



TIMBER GRIP S  
(TGS)

### ■ Loader & Dozer Service

**G3**



R-LUG  
(RL)

**L2**



G-LUG  
(GL)

FAST GRIP  
(FG)

**L3**



R-LUG  
(RL)

V-LUG2  
(VL2)

### ■ Industrial Service



R-LUG  
(RL)



R-LUG S  
(RLS)



E-LUG S2  
(ELS2)



SMOOTH TREAD-MS  
(STMS)



YARD SERVICE-2  
(YS2)

## 2. Application

### ■ Earthmover Service



Size	Type	Ply Rating
------	------	------------

#### WL(E3)

9.00-20	T/T	14
---------	-----	----

#### RL(E3)

10.00-20	T/T	14
11.00-20	T/T	14
12.00-20	T/T	18
12.00-24	T/T	20
14.00-24	T/T	20 24 28
16.00-25	T/L	28
	T/T	28
18.00-25	T/L	32
37.25-35	T/L	36

#### VL2(E3)

20.5-25	T/L	16 20 24
23.5-25	T/L	16 20 24
26.5-25	T/L	20 24 26
29.5-25	T/L	22 28

Size	Type	Ply Rating
------	------	------------

#### RLS(E4)

18.00-33	T/L	32 36
21.00-35	T/L	36

#### ELS2(E4)

18.00-25	T/T	32
18.00-33	T/L	32

T/T: Tube Type  
T/L: Tubeless Type

### ■ Grader Service



Size	Type	Ply Rating
------	------	------------

#### RG(G1)

9.00-20	T/T	10
---------	-----	----

#### GL(G2)

9.00-20	T/T	14
---------	-----	----

#### FG(G2)

13.00-24 TG	T/L	12
	T/T	10
14.00-24 TG	T/L	14
	T/T	12 16
16.00-24 TG	T/T	16
17.5-25	T/L	12 16
20.5-25	T/L	12
	T/T	12

#### RL(G3)

16.00-24 TG	T/T	16
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T/T: Tube Type  
T/L: Tubeless Type  
TG: For Semi-Drop Center Rim

## Loader & Dozer Service



Size	Type	Ply Rating
<b>GL(L2)</b>		
9.00-20	T/T	14

Size	Type	Ply Rating
<b>FG(L2)</b>		
5.70-12	T/L	4
23x8.50-12	T/T	4
27x8.50-15	T/L	4
	T/T	4
33x12.5-15	T/T	8
12.5/70-16	T/L	6 8
10-16.5	T/L	6 8
12-16.5	T/L	8
	T/T	8
12.5/65-18	T/L	8
15.5/60-18	T/L	8
15.5/70-18	T/L	8
10.00-20	T/T	10 12 14
11.00-20	T/T	10 12 16
15.5/70-20	T/L	10
42x17-20	T/T	10
17.5/65-20	T/L	10

Size	Type	Ply Rating
<b>FG(L2) (continued)</b>		
13.00-24 TG	T/L	12
	T/T	12
14.00-24 TG	T/L	12 14
	T/T	12
16.9-24	T/T	10
18.4-24	T/T	10
15.5-25	T/L	12
	T/T	12
17.5-25	T/L	12 16
20.5-25	T/L	12
	T/T	12

Size	Type	Ply Rating
<b>FGF(L2)</b>		
10.00-20	T/T	16

Size	Type	Ply Rating
<b>RL(L3)</b>		
12.00-24	T/T	16 20
14.00-24	T/T	24
14.00-24 TG	T/L	12
16.00-24 TG	T/T	16

T/T: Tube Type  
T/L: Tubeless Type  
TG: For Semi-Drop Center Rim



Size	Type	Ply Rating
<b>VL2(L3)</b>		
15.5-25	T/L	12
17.5-25	T/L	16
	T/T	16
20.5-25	T/L	16 20 24
	T/T	16 20
23.5-25	T/L	16 20 24
	T/T	16 20 24
26.5-25	T/L	16 20 24 26
	T/T	20 24
29.5-25	T/L	22 28

Size	Type	Ply Rating
<b>RLS(L4)</b>		
14.00-24	T/T	20
18.00-25	T/T	32
23.5-25	T/L	16
26.5-25	T/L	26 32
29.5-25	T/L	28

T/T: Tube Type  
T/L: Tubeless Type

Size	Type	Ply Rating
<b>NL(L4)</b>		
35/65-33	T/L	24 30
<b>DL(L5)</b>		
17.5-25	T/L	16
20.5-25	T/L	12 16
23.5-25	T/L	20
26.5-25	T/L	20 32
29.5-25	T/L	28
35/65-33	T/L	24 30 42
40/65-39	T/L	56
41.25/70-39	T/L	42
45/65-45	T/L	38 58
50/65-51	T/L	62
65/65-57	T/L	62

Size	Type	Ply Rating
<b>STMS(L5S)</b>		
12.00-24	T/T	16 20
14.00-24	T/T	20
17.5-25	T/L	20
18.00-25	T/L	24 28 32
26.5-25	T/L	32 36
29.5-29	T/L	34

## ■ Compactor Service



RR

Size	Type	Ply Rating
<b>RR(C1)</b>		
7.50-15	T/T	12
9.5/65-15	T/T	6
7.50-16	T/L	6
	T/T	6
10.5/80-16	T/L	6
9.00-20	T/T	10
14/70-20	T/T	12



AL2

Size	Type	Ply Rating
<b>AL2(C2)</b>		
23.1-26	T/L	8
	T/T	8

## ■ Logging Service



TGS

Size	Type	Ply Rating
<b>TGS(LS2)</b>		
30.5L-32	T/T	16

## ■ Sand Service



SCP2

Size	Type	Ply Rating
<b>SCP2(E7)</b>		
14.00-20	T/T	18

T/T: Tube Type  
T/L: Tubeless Type

## ■ Industrial Service



RL

Size	Type	Ply Rating
<b>RL</b>		
12.00-20	T/T	20
14.00-24	T/T	24 28
14.00-24 TG	T/L	24
16.00-25	T/L	28 32
	T/T	28
18.00-25	T/L	36 40
21.00-25	T/L	40
21.00-35	T/L	40



RLS

Size	Type	Ply Rating
<b>RLS</b>		
14.00-24 TG	T/L	24
16.00-25	T/L	28 32
23.5-25	T/L	36



ELS2

Size	Type	Ply Rating
<b>ELS2</b>		
18.00-25	T/L	40
18.00-33	T/L	36
21.00-35	T/L	40



STMS

Size	Type	Ply Rating
<b>STMS</b>		
12.00-24	T/T	20
18.00-25	T/L	40



YS2

Size	Type	Ply Rating
<b>YS2</b>		
16.00-25	T/L	28 32

T/T: Tube Type  
T/L: Tubeless Type  
TG: For Semi-Drop Center Rim

### 3. Technical Data

Tire Size	Pattern	Ply Rating	TRA Code or Application	Spec	TKPH	TMPH	Approximate Inflated Dimensions				OTD	Minimum Dual Spacing	Recommended Rim/Flange Height
							OD mm inch	OW mm inch	SLR mm inch	SLW mm inch			
<b>12"</b>													
5.70-12 Tubeless	FG	4	L2	-	-	-	570 22.4	153 6.0	TBA* TBA*	TBA* TBA*	15.5	-	5JA
23x8.50-12	FG	4	L2	-	-	-	576 22.7	215 8.5	TBA* TBA*	TBA* TBA*	14.5	-	5JA
<b>15"</b>													
7.50-15	RR	12	C1	-	-	-	775 30.5	209 8.2	360 14.2	225 8.9	-	250 9.8	6.00GS
27x8.50-15 Tubeless	FG	4	L2	-	-	-	686 27.0	208 8.2	317 12.5	218 8.6	16.5	-	7JA
27x8.50-15													
9.5/65-15	RR	6	C1	-	-	-	671 26.4	238 9.4	312 12.3	242 9.5	-	-	7JA
33x12.5-15	FG	8	L2	-	-	-	851 33.5	318 12.5	385 15.2	336 13.2	22.5	-	10.00F
<b>16"</b>													
7.50-16 Tubeless	RR	6	C1	-	-	-	814 32.0	230 9.1	380 15.0	238 9.4	-	250 9.8	6.00GS 6LB
7.50-16							776 30.6	214 8.4	TBA* TBA*	TBA* TBA*			
10.5/80-16 Tubeless	RR	6	C1	-	-	-	807 31.8	272 10.7	TBA* TBA*	TBA* TBA*	-	-	8LB
12.5/70-16 Tubeless	FG	6 8	L2	-	-	-	860 33.9	319 12.6	389 15.3	336 13.2	21.0	-	10LB
<b>16.5"</b>													
10-16.5 Tubeless	FG	6 8	L2	-	-	-	771 30.4	268 10.6	353 13.9	278 10.9	19.5	-	8.25
12-16.5 Tubeless	FG	8	L2	-	-	-	831 32.7	315 12.4	376 14.8	325 12.8	20.0	-	9.75
12-16.5													

\*Due to factory transfer.

#### For the TKPH(TMPH) Ratings of Bias Tires

- 1) The figures are at 38°C (or 100°F) ambient temperature. If the ambient temperature is over 38°C (or 100°F), consult a Bridgestone Representative.
- 2) If the round-trip distance is less than 5km (or 3 miles), the above ratings can be increased by 12%.
- 3) If the Maximum Speed exceeds 50km/h (or 30 mph), consult a Bridgestone Representative.
- 4) When haul length exceeds 16km (10miles) one way, consult a Bridgestone Representative.

Pattern	Application Max.Speed km/h mph	Tire Load Limits at Various Cold Inflation Pressures																	Size		
		kPa psi	180 26	200 29	220 32	240 35	260 38	280 41	300 44	325 47	350 51										
<b>12"</b>																					
FG	Loader	PR	4																	5.70-12	
	10	kg	420	445	470	495	520	545	565	590	620										
	5	lbs	925	980	1035	1090	1145	1200	1245	1300	1365										
FG		PR	4																	23x8.50-12	
		kg	550	585	620	655	685														
		lbs	1210	1290	1365	1445	1510														
<b>15"</b>																					
RR	Compactor	PR	12																	7.50-15	
	10	kg	1700	1750	1850	1900	1950	2060	2120	2180	2240	2300	2300	2360	2430	2500	2575	2575	2650		
	5	lbs	3740	3860	4080	4180	4300	4540	4680	4800	4940	5080	5080	5200	5360	5520	5680	5680	5840		
		kPa	180	200	220	240	260	280	300	325	350										
		psi	26	29	32	35	38	41	44	47	51										
FG	Loader	PR	4																	27x8.50-15	
	10	kg	695	740	780	820	860														
	5	lbs	1530	1630	1720	1805	1895														
RR	Compactor	PR	6																	9.5/65-15	
	10	kg				1100	1155	1205	1255	1315											
	5	lbs				2430	2550	2660	2770	2900											
		kPa	120	140	160	180	200	220	240	260	280	300	325	350	375	400	425				
		psi	17	20	23	26	29	32	35	38	41	44	47	51	54	58	62				
FG	Loader	PR	8																	33x12.5-15	
	10	kg				1510	1605	1695	1785	1870	1950	2035	2130								
	5	lbs				3330	3540	3735	3935	4125	4300	4485	4695								
<b>16"</b>																					
RR	Compactor	PR	6																	7.50-16	
	10	kg							1405	1470	1535	1600	1675	1750	1820	1890					
	5	lbs							3100	3240	3380	3530	3690	3860	4010	4170					
RR		PR	6																	10.5/80-16	
		kg							1645	1725	1800	1875									
		lbs							3630	3800	3970	4130									
FG	Loader	PR	6																	12.5/70-16	
	10	kg	1050	1145	1240	1330	1410	1495	1570	1645											
	5	lbs	2315	2525	2735	2930	3110	3295	3460	3625											
<b>16.5"</b>																					
FG	Loader	PR	6																	10-16.5	
	10	kg				1140	1215	1285	1350	1415	1475	1540	1610	1685	1750	1820					
	5	lbs				2515	2680	2830	2975	3120	3250	3395	3550	3715	3860	4010					
FG		PR	8																	12-16.5	
		kg				1470	1565	1655	1740	1820	1905	1980	2075	2170							
		lbs				3240	3450	3650	3835	4010	4200	4365	4575	4785							

#### For the Load and Inflation Pressure Tables of Bias Tires

- 1) Maximum Speeds are as below. Earthmover Service : 50km/h (30mph), Grader Service : 40km/h (25mph), Loader & Dozer Service : 10km/h (5mph), Compactor Service : 10km/h (5mph)
- 2) Figures under the ply rating denote the maximum load and inflation pressures.
- 3) For Loader & Dozer Service, Dig & Load Operation or distances are up to 76m (250ft) one way.
- 4) For Load & Carry operations, tire load limit will be adjusted following the table of page 83.

Tire Size	Pattern	Ply Rating	TRA Code or Application	Spec	TKPH	TMPH	Approximate Inflated Dimensions				OTD	Minimum Dual Spacing	Recommended Rim/Flange Height	
							OD mm inch	OW mm inch	SLR mm inch	SLW mm inch				
<b>18"</b>														
12.5/65-18 Tubeless	FG	8	L2	-	-	-	878	315	398	327	19.5	-	W10	
							34.6	12.4	15.7	12.9				
15.5/60-18 Tubeless	FG	8	L2	-	-	-	932	391	416	404	21.5	-	W10	
15.5/70-18 Tubeless	FG	8	L2	-	-	-	1035	405	TBA*	TBA*	20.5	-	W13	
							40.7	15.9	TBA*	TBA*				
<b>20"</b>														
9.00-20	RG	10	G1	-	-	-	1023	267	TBA*	TBA*	15.0	-	7.00T	
							40.3	10.5	TBA*	TBA*				
	RR	10	C1	-	-	-	1005	265	458	297	-	310	-	-
							39.6	10.4	18.0	11.7				
	GL	14	G2,L2	-	-	-	1023	255	478	276	21.0	-	-	-
40.3							10.0	18.8	10.9					
WL	14	E3	SCR	-	-	-	1027	257	466	280	19.5	310	-	-
							40.4	10.1	18.3	11.0				
10.00-20	FG	10	L2	-	-	-	1064	280	495	295	24.0	-	7.50V	
		12					41.9	11.1	19.5	11.6				
		14												
	FGF	16	L2	-	-	-	1057	276	478	302	18.0	334	13.1	
RL	14	E3	CRT	42	29	1067	285	489	304	22.5	-	-		
						42.0	11.2	19.3	12.0					
11.00-20	FG	10	L2	-	-	-	1100	299	510	323	24.5	352	8.00V	
		12					43.3	11.8	20.0	12.7				
		16												
RL	14	E3	CRT	49	34	1090	296	TBA*	TBA*	24.0	344	13.5		
						42.9	11.7	TBA*	TBA*					

\*Due to factory transfer.

**For the TKPH(TMPH) Ratings of Bias Tires**

- 1) The figures are at 38°C (or 100°F) ambient temperature. If the ambient temperature is over 38°C (or 100°F), consult a Bridgestone Representative.
- 2) If the round-trip distance is less than 5km (or 3 miles), the above ratings can be increased by 12%.
- 3) If the Maximum Speed exceeds 50km/h (or 30 mph), consult a Bridgestone Representative.
- 4) When haul length exceeds 16km (10miles) one way, consult a Bridgestone Representative.

Pattern	Application Max.Speed km/h mph	Tire Load Limits at Various Cold Inflation Pressures																				Size						
		kPa psi	120 17	140 20	160 23	180 26	200 29	220 32	240 35	260 38	280 41	300 44	325 47	350 51	375 54	400 58	425 62	450 65	475 69	500 73								
<b>18"</b>																												
FG	Loader 10 5	PR	8																				12.5/65-18					
		kg	1065	1165	1260	1350	1435	1515	1595	1670																		
		lbs	2345	2570	2775	2975	3165	3340	3515	3680																		
FG	Loader 10 5	PR	8																				15.5/60-18					
		kg	1525	1670	1805	1935	2060	2195																				
		lbs	3360	3680	3980	4265	4540	4840																				
FG	Loader 10 5	PR	8																				15.5/70-18					
		kg	1725	1885	2040	2185	2325	2455																				
		lbs	3800	4155	4495	4815	5125	5410																				
<b>20"</b>																												
RG GL	Grader 40 25	PR	10										14										9.00-20					
			kg	955	1035	1110	1180	1245	1310	1375	1435	1495	1565	1635	1705	1780	1850	1910	1965	2025								
		lbs	2110	2280	2450	2600	2740	2890	3040	3160	3300	3460	3600	3760	3920	4060	4210	4340	4480									
RR	Compactor 10 5	PR	10																				9.00-20					
			kg	2900	3000	3150	3250	3350	3450	3550	3650																	
		lbs	6400	6600	6950	7150	7400	7600	7850	8050																		
GL	Loader 10 5	PR	14										14										10.00-20					
			kg	3150	3250	3350	3450	3450	3550	3630	3710	3790	3875															
		lbs	6950	7150	7400	7600	7600	7850	8000	8190	8360	8550																
WL	E/M 50 30	PR	200	220	240	260	280	300	325	350	375	400	425	450	475	500	525	550										
			psi	29	32	35	38	41	44	47	51	54	58	62	65	69	73	76	80									
WL	E/M 50 30	PR	14										14										10.00-20					
			kg	1280	1350	1420	1490	1555	1620	1695	1770	1845	1915	1985	2055	2120	2185	2245	2310									
		lbs	2820	2980	3130	3280	3430	3570	3740	3900	4070	4220	4380	4530	4670	4820	4950	5090										
FG FGF	Loader 10 5	PR	10	12							14							16						10.00-20				
			kg	3550	3650	3750	3875	4000	4125	4125	4250	4345	4440	4530	4620													
		lbs	7850	8050	8250	8550	8800	9100	9350	9350	9650	9900	10300	10540	10740													
RL	E/M 50 30	PR	200	220	240	260	280	300	325	350	375	400	425	450	475	500												
			psi	29	32	35	38	41	44	47	51	54	58	62	65	69	73											
RL	E/M 50 30	PR	14										16										11.00-20					
			kg	1445	1530	1610	1685	1760	1830	1920	2005	2085	2170	2245	2320	2395	2470											
		lbs	3190	3370	3550	3710	3880	4030	4230	4420	4600	4780	4950	5110	5280	5450												
FG	Loader 10 5	PR	10	12							16							16						11.00-20				
			kg	3750	3875	4000	4125	4250	4250	4375	4500	4675	4780	4880														
		lbs	8300	8550	8800	9100	9350	9350	9650	9900	10300	10540	10740															
RL	E/M 50 30	PR	200	220	240	260	280	300	325	350	375	400	425	450	475	500	525	550										
			psi	29	32	35	38	41	44	47	51	54	58	62	65	69	73	76	80									
RL	E/M 50 30	PR	14										16										11.00-20					
			kg	1570	1660	1750	1830	1910	1990	2085	2180	2270	2355	2440	2525	2605	2685	2760	2840									
		lbs	3460	3660	3860	4030	4210	4390	4600	4810	5000	5190	5380	5570	5740	5920	6080	6260										

**For the Load and Inflation Pressure Tables of Bias Tires**

- 1) Maximum Speeds are as below. Earthmover Service : 50km/h (30mph), Grader Service : 40km/h (25mph), Loader & Dozer Service : 10km/h (5mph), Compactor Service : 10km/h (5mph)
- 2) Figures under the ply rating denote the maximum load and inflation pressures.
- 3) For Loader & Dozer Service, Dig & Load Operation or distances are up to 76m (250ft) one way.
- 4) For Load & Carry operations, tire load limit will be adjusted following the table of page 83.



Tire Size	Pattern	Ply Rating	TRA Code or Application	Spec	TKPH	TMPH	Approximate Inflated Dimensions				OTD	Minimum Dual Spacing	Recommended Rim/Flange Height
							OD	OW	SLR	SLW			
							mm inch	mm inch	mm inch	mm inch			
14.00-24	RL	20	E3	E2A	109	75	1355	387	627	400	28.0	450	10.00W
		24					53.3	15.2	24.7	15.7			
		28	L3	D2A	-	-	See characteristics page 78						
	RLS	20	L4	D2A	-	-	1407	390	646	440	48.0	450	10.00W
		28	Industrial Service	IDU	-	-	See characteristics page 78						
STMS	20	L5S	D2A	-	-	1373	367	646	391	78.0	-	-	
14.00-24 TG Tubeless	FG	14	G2	G2A	-	-	1336	375	606	374	31.0	-	8.00TG (10.00VA)
		12	L2	D2A	-	-	1330	390	TBA	TBA		10.00VA	
	RL	12	L3	D2A D2V	-	-	1355	387	614	410	28.0	450	10.00VA (8.00TG)
		24	Industrial Service	IDU	-	-	See characteristics page 78						
	RLS	24	Industrial Service	IDU	-	-	See characteristics page 78						
14.00-24 TG	FG	12	G2	G2A	-	-	1336	375	606	400	31.0	-	8.00TG (10.00VA)
		16			-	-	395		430			10.00VA (8.00TG)	
		12	L2	D2A			1330	390	TBA	TBA			
16.00-24 TG	FG	16	G2	G2A	-	-	1453	438	638	500	32.5	-	10.00VA
		16	G3, L3	DG2	-	-	1478	419	671	446		33.5	513
16.9-24	FG	10	L2	-	-	-	1320	447	591	462	30.5	-	W15L
18.4-24	FG	10	L2	-	-	-	1385	483	612	516	32.5	-	W16L
25"													
15.5-25 Tubeless	FG	12	L2	D2A	-	-	1284	410	565	399	23.5	-	12.00/1.3
		12	L3	D2A	-	-	1284	410	568	448		27.0	-

**For the TKPH(TMPH) Ratings of Bias Tires**

- 1) The figures are at 38°C (or 100°F) ambient temperature. If the ambient temperature is over 38°C (or 100°F), consult a Bridgestone Representative.
- 2) If the round-trip distance is less than 5km (or 3 miles), the above ratings can be increased by 12%.
- 3) If the Maximum Speed exceeds 50km/h (or 30 mph), consult a Bridgestone Representative.
- 4) When haul length exceeds 16km (10miles) one way, consult a Bridgestone Representative.

Pattern	Application Max.Speed km/h mph	Tire Load Limits at Various Cold Inflation Pressures																			Size	
		kPa psi	275 40	300 44	325 47	350 51	375 54	400 58	425 62	450 65	475 69	500 73	525 76	550 80	575 83	600 87	625 91	650 94	650 94			
RL	E/M 50 30	PR	20																			14.00-24
			24																			
RLS	10	PR	28																			14.00-24
			28																			
STMS	5	PR	20																			14.00-24
			24																			
RL	Loader 10	PR	12																			14.00-24 TG
			16																			
RLS	10	PR	12																			14.00-24 TG
			16																			
STMS	5	PR	12																			14.00-24 TG
			16																			
RL	IDU	PR	12																			14.00-24 TG
			16																			
RLS	IDU	PR	12																			14.00-24 TG
			16																			
FG	Grader 40 25	PR	12																			16.00-24 TG
			16																			
FG	Loader 10	PR	12																			16.00-24 TG
			16																			
RL	5	PR	12																			16.00-24 TG
			16																			
FG	Loader 10	PR	12																			16.9-24
			16																			
FG	5	PR	12																			16.9-24
			16																			
FG	Loader 10	PR	12																			18.4-24
			16																			
FG	5	PR	12																			18.4-24
			16																			
25"																					15.5-25	
FG	Loader 10	PR	12																			
			VL2	5	PR	12																
12																						

**For the Load and Inflation Pressure Tables of Bias Tires**

- 1) Maximum Speeds are as below. Earthmover Service : 50km/h (30mph), Grader Service : 40km/h (25mph), Loader & Dozer Service : 10km/h (5mph), Compactor Service : 10km/h (5mph)
- 2) Figures under the ply rating denote the maximum load and inflation pressures.
- 3) For Loader & Dozer Service, Dig & Load Operation or distances are up to 76m (250ft) one way.
- 4) For Load & Carry operations, tire load limit will be adjusted following the table of page 83.

Tire Size	Pattern	Ply Rating	TRA Code or Application	Spec	TKPH	TMPH	Approximate Inflated Dimensions				OTD	Minimum Dual Spacing	Recommended Rim/Flange Height
							OD	OW	SLR	SLW			
							mm inch	mm inch	mm inch	mm inch			
15.5-25	FG	12	L2	D2A	-	-	1284	410	565	399	23.5	-	12.00/1.3
							50.6	15.7	22.2	15.7		-	
16.00-25 Tubeless	RL	28	E3	E2A	139	95	1478	432	671	459	33.5	513	11.25/2.0
							58.2	17.0	26.4	18.1		20.2	
		28	Industrial Service	IDU	-	-	See characteristics page 78						
		32	Industrial Service	IDU	-	-	See characteristics page 78						
		YS2	28	Industrial Service	IDU	-	-	See characteristics page 78					
		32	Industrial Service	IDU	-	-	See characteristics page 78						
16.00-25	RL	28	E3	E2A	139	95	1495	432	671	459	33.5	513	11.25/2.0
							58.9	17.0	26.4	18.1		20.2	
		28	Industrial Service	IDU	-	-	See characteristics page 78						
17.5-25 Tubeless	FG	12	G2, L2	DG2	-	-	1345	450	596	472	27.5	-	14.00/1.5
							53.0	17.7	23.5	18.6		-	
		16	L3	D2A	-	-	1348	444	597	470	30.5	-	-
		16	L5	D2A	-	-	1410	445	656	470		69.5	
		20	L5S	D2A	-	-	1385	450	645	462	69.0	-	-
		D2Z	D2A	-	-	54.5	17.7	25.4	18.2	-			
17.5-25	VL2	16	L3	D2A	-	-	1348	444	597	470	30.5	-	-
18.00-25 Tubeless	RL	32	E3	E2A	173	118	1602	503	727	572	37.5	587	13.00/2.5
							63.1	19.8	28.6	22.5		23.1	
		36	Industrial Service	IDU	-	-	See characteristics page 78						
		40	Industrial Service	IDU	-	-	See characteristics page 78						
		ELS2	40	Industrial Service	IDU	-	-	See characteristics page 78					
	STMS	24	L5S	D2A	-	-	1675	520	762	550	84.0	-	13.00/2.5
		28								-			
		32											
		40	Industrial Service	IDU	-	-	See characteristics page 78						

**For the TKPH(TMPH) Ratings of Bias Tires**

- 1) The figures are at 38°C (or 100°F) ambient temperature. If the ambient temperature is over 38°C (or 100°F), consult a Bridgestone Representative.
- 2) If the round-trip distance is less than 5km (or 3 miles), the above ratings can be increased by 12%.
- 3) If the Maximum Speed exceeds 50km/h (or 30 mph), consult a Bridgestone Representative.
- 4) When haul length exceeds 16km (10miles) one way, consult a Bridgestone Representative.

Pattern	Application Max.Speed km/h mph	Tire Load Limits at Various Cold Inflation Pressures																Size	
		kPa psi	225 33	250 36	275 40	300 44	325 47	350 51	375 54	400 58	425 62	450 65	475 69	500 73	525 76	550 80	575 83		
FG	Loader 10 5	PR kg lbs	12																15.5-25
			4000 8800	4250 9350	4500 9900	4750 10500	4875 10700	5150 11400	5300 11700	5600 12300									
RL	E/M 50 30	PR kg lbs	28																16.00-25
							4375 9650	4625 10200	4875 10700	5000 11000	5300 11700	5450 12000	5600 12300	5800 12800	6000 13200	6300 13900	6500 14300	6500 14300	
RL RLS YS2	IDU		See characteristics page 79																16.00-25
			See characteristics page 79																
FG	Grader 40 25	PR kg lbs	12 16																17.5-25
			2120 4680	2360 5200	2575 5680	2900 6400	3000 6600	3150 6950	3350 7400										
			For slope and ditching service, inflation pressures should be increased by 100kPa (15psi) with no increase in load rating. For extreme conditions, consult a Bridgestone Representative for additional recommended operating requirements.																17.5-25
FG	Loader VL2 DL STMS	PR kg lbs	12 16 20																
			4750 10500	5000 11000	5300 11700	5600 12300	5800 12800	6150 13600	6300 13900	6700 14800	6900 15200	7100 15700	7300 16100	7500 16500	7750 17100	8000 17600	8250 18200		
RL	E/M 50 30	PR kg lbs	32																18.00-25
							5600 12300	6000 13200	6300 13900	6500 14300	6900 15200	7100 15700	7300 16100	7500 16500	7750 17100	8000 17600	8250 18200	8500 18700	
STMS	Loader 10 5	PR kg lbs	24 28 32																18.00-25
			10000 22000	10450 23000	10900 24000	11500 25400	11500 25400	11800 26000	12150 26800	12500 27600	12850 28300	13200 29100	13600 30000	13600 30000	14000 30900	14500 32000	14500 32000	15000 33100	
RL ELS2 STMS	IDU		See characteristics page 79																18.00-25
			See characteristics page 79																

**For the Load and Inflation Pressure Tables of Bias Tires**

- 1) Maximum Speeds are as below. Earthmover Service : 50km/h (30mph), Grader Service : 40km/h (25mph), Loader & Dozer Service : 10km/h (5mph), Compactor Service : 10km/h (5mph)
- 2) Figures under the ply rating denote the maximum load and inflation pressures.
- 3) For Loader & Dozer Service, Dig & Load Operation or distances are up to 76m (250ft) one way.
- 4) For Load & Carry operations, tire load limit will be adjusted following the table of page 83.

Tire Size	Pattern	Ply Rating	TRA Code or Application	Spec	TKPH	TMPH	Approximate Inflated Dimensions				OTD	Minimum Dual Spacing	Recommended Rim/Flange Height	
							OD	OW	SLR	SLW				
							mm inch	mm inch	mm inch	mm inch				
18.00-25	RLS	32	L4	D2A	-	-	1642 64.6	515 20.3	745 29.3	578 22.8	57.5	587 23.1	13.00/2.5	
	ELS2	32	E4	E2ALS	139	95	1685 66.3	530 20.9	796 31.3	545 21.5	66.5	587 23.1		
20.5-25 Tubeless	FG	12	G2, L2	DG2	-	-	1493 58.8	534 21.0	652 25.7	551 21.7	29.5	-	17.00/1.7 (12,16PR) 17.00/2.0	
	VL2	16	E3	DE2	80	55	1494 58.8	542 21.3	641 25.2	587 23.1	33.0	-		
		20	L3		-	-	-	-	-	-	-	-		-
DL	12	L5	D2A	-	-	1558 61.3	548 21.6	714 28.1	570 22.4	79.5	-			
20.5-25	FG	12	G2, L2	DG2	-	-	1493 58.8	534 21.0	652 25.7	551 21.7	29.5	-	-	
	VL2	16	L3	D2A	-	-	1494 58.8	542 21.3	641 25.2	587 23.1	33.0	-		
21.00-25 Tubeless	RL	40	Industrial Service	IDU	-	-	See characteristics page 78						-	-
23.5-25 Tubeless	VL2	16	E3	DE2	107	73	1607 63.3	618 24.3	682 26.9	688 27.1	43.0	-	19.50/2.5	
		20	L3		-	-	-	-	-	-	-	-		
		24												
	RLS	16	L4	D2A	-	-	1658 65.3	615 24.2	724 28.5	668 26.3	67.5	-		
	DL	20	L5	D2A	-	-	1673 65.9	616 24.3	779 30.7	646 25.4	88.0	-		
23.5-25	VL2	16	L3	D2A	-	-	1607 63.3	618 24.3	682 26.9	688 27.1	43.0	-		

**For the TKPH(TMPH) Ratings of Bias Tires**

- 1) The figures are at 38°C (or 100°F) ambient temperature. If the ambient temperature is over 38°C (or 100°F), consult a Bridgestone Representative.
- 2) If the round-trip distance is less than 5km (or 3 miles), the above ratings can be increased by 12%.
- 3) If the Maximum Speed exceeds 50km/h (or 30 mph), consult a Bridgestone Representative.
- 4) When haul length exceeds 16km (10miles) one way, consult a Bridgestone Representative.

Pattern	Application Max.Speed km/h mph	PR	Tire Load Limits at Various Cold Inflation Pressures																Size		
			kPa psi	225 33	250 36	275 40	300 44	325 47	350 51	375 54	400 58	425 62	450 65	475 69	500 73	525 76	550 80	575 83			
ELS2	E/M 50 30	PR	32																18.00-25		
			kg lbs		5600 12300	6000 13200	6300 13900	6500 14300	6900 15200	7100 15700	7300 16100	7500 16500	7750 17100	8000 17600	8250 18200	8500 18700	8750 19300				
RLS	Loader 10 5	PR	32																18.00-25		
			kg lbs	10000 22000	10450 23000	10900 24000	11500 25400	11500 25400	11800 26000	12150 26800	12500 27600	12850 28300	13200 29100	13600 30000	13600 30000	14000 30900	14500 32000	14500 32000		15000 33100	
VL2	E/M 50 30	PR	16				20				24								20.5-25		
			kg lbs		4125 9100	4500 9900	4875 10700	5150 11400	5450 12000	5800 12800	6000 13200	6300 13900	6500 14300	6700 14800							
FG	Grader 40 25	PR	16																20.5-25		
			kg lbs	2800 6150	3150 6950	3550 7850	3750 8250	4000 8800													
<p>For slope and ditching service, inflation pressures should be increased by 100kPa (15psi) with no increase in load rating. For extreme conditions, consult a Bridgestone Representative for additional recommended operating requirements.</p>																					
FG	Loader	PR	12				16				20				24				20.5-25		
VL2	VL2	DL	5	kg lbs		6300 13900	6700 14800	7100 15700	7500 16500	7750 17100	8250 18200	8500 18700	8750 19300	9250 20400	9500 20900	9750 21500	10000 22000	10300 22700			
RL	IDU		See characteristics page 79																21.00-25		
VL2	Loader	PR	16																23.5-25		
			20																		
			24																		
			kg lbs		8000 17600	8500 18700	9000 19800	9500 20900	10000 22000	10600 23400	10900 24000	11200 24700	11800 26000	12150 26800	12500 27700						
VL2	E/M	PR	16				20				24								23.5-25		
50 30	kg lbs		5300 11700	5800 12800	6150 13600	6500 14300	6900 15200	7300 16100	7750 17100	8000 17600											
RLS	IDU		See characteristics page 79																23.5-25		
VL2	Loader	PR	16				20				24										
10 5	kg lbs			8000 17600	8500 18700	9000 19800	9500 20900	10000 22000	10600 23400	10900 24000	11200 24700	11800 26000	12150 26800	12500 27700							

**For the Load and Inflation Pressure Tables of Bias Tires**

- 1) Maximum Speeds are as below. Earthmover Service : 50km/h (30mph), Grader Service : 40km/h (25mph), Loader & Dozer Service : 10km/h (5mph), Compactor Service : 10km/h (5mph)
- 2) Figures under the ply rating denote the maximum load and inflation pressures.
- 3) For Loader & Dozer Service, Dig & Load Operation or distances are up to 76m (250ft) one way.
- 4) For Load & Carry operations, tire load limit will be adjusted following the table of page 83.

Tire Size	Pattern	Ply Rating	TRA Code or Application	Spec	TKPH	TMPH	Approximate Inflated Dimensions				OTD	Minimum Dual Spacing	Recommended Rim/Flange Height
							OD	OW	SLR	SLW			
							mm inch	mm inch	mm inch	mm inch			
26.5-25 Tubeless	VL2	20	E3	DE2	132	90	1738	683	745	734	44.0	-	22.00/3.0
		24					L3	68.4	26.9	29.3			
		26	D2A	70.3	27.6	31.5		29.0					
		16		1785	700	800	736	67.0	-				
	RLS	26	L4	D2A	-	-	70.3	27.6	31.5	29.0	-	-	
		32					1798	694	815	727	97.0	-	
	DL	20	L5	D2A	-	-	70.8	27.3	32.1	28.6	-	-	
		32					1798	680	827	719	95.0	-	
	STMS	32	L5S	D2A	-	-	70.8	26.8	32.6	28.3	-	-	
		36					1738	683	745	734	44.0	-	
26.5-25	VL2	20	L3	D2A	-	-	68.4	26.9	29.3	28.9	-	-	
		24					1738	683	745	734	44.0	-	
29.5-25 Tubeless	VL2	22	E3	DE2	150	103	1850	770	792	833	49.0	-	25.00/3.5
		28					L3	72.8	30.3	31.2			
	RLS	28	L4	D2A	-	-		1912	784	813	805	74.0	
		28					75.3	30.9	32.0	31.7	-	-	
DL	28	L5	D2A	-	-	1900	768	873	805	105.5	-		
						74.8	30.2	34.4	31.7	-	-		
<b>26"</b>													
23.1-26 Tubeless	AL2	8	C2	-	-	-	1472	595	654	618	19.0	-	DW20A DW20B
							58.0	23.4	25.7	24.3			
23.1-26	AL2	8	C2	-	-	-	1472	595	654	618	19.0	-	
							58.0	23.4	25.7	24.3	-	-	
<b>29"</b>													
29.5-29 Tubeless	STMS	34	L5S	D2A	-	-	2023	749	931	792	103.0	-	25.00/3.5
				D2Z			79.6	29.5	36.7	31.2			
<b>32"</b>													
30.5L-32	TGS	16	LS2	S2V	-	-	1847	780	840	790	56.0	-	DW27A DW27B
							72.7	30.7	33.1	31.1			

**For the TKPH(TMPH) Ratings of Bias Tires**

- 1) The figures are at 38°C (or 100°F) ambient temperature. If the ambient temperature is over 38°C (or 100°F), consult a Bridgestone Representative.
- 2) If the round-trip distance is less than 5km (or 3 miles), the above ratings can be increased by 12%.
- 3) If the Maximum Speed exceeds 50km/h (or 30 mph), consult a Bridgestone Representative.
- 4) When haul length exceeds 16km (10miles) one way, consult a Bridgestone Representative.

Pattern	Application Max.Speed km/h mph	Tire Load Limits at Various Cold Inflation Pressures																			Size		
		kPa psi	175 25	200 29	225 33	250 36	275 40	300 44	325 47	350 51	375 54	400 58	425 62	450 65	475 69	500 73	525 76	550 80	630 92				
VL2	E/M 50 30	PR	20		24		26													26.5-25			
			kg	6700	7300	7750	8250	8750	9250	9500													
lbs	14800	16100	17100	18200	19300	20400	20900																
VL2 RLS DL STMS	Loader 10 5	PR	16			20			24			26			32			36					
			kg	10000	10900	11500	12150	12500	13200	13600	14000	14500	15000	15500	16000	16500	17000	18600					
lbs	22000	24000	25400	26800	27600	29100	30000	30900	32000	33100	34200	35300	36480	37500	41000								
VL2	E/M 50 30	PR	22				28															29.5-25	
			kg	8000	8750	9250	10000	10600	10900	11500													
lbs	17600	19300	20400	22000	23400	24000	25400																
VL2 RLS DL	Loader 10 5	PR	28																				
			kg	12150	12850	13600	14500	15000	16000	16500	17000	17500											
lbs	26800	28300	30000	32000	33100	35300	36480	37500	38600														
<b>26"</b>																							
		kPa	110																	23.1-26			
		psi	16																				
AL2	Compactor 10 5	PR	8																				
			kg	2850																			
lbs	6285																						
<b>29"</b>																							
		kPa	175	200	225	250	275	300	325	350	375	400	425	450	475	500	525				29.5-29		
		psi	25	29	33	36	40	44	47	51	54	58	62	65	69	73	76						
STMS	Loader 10 5	PR	34																				
			kg	12850	14000	14500	15500	16000	17000	17500	18000	19000	19500	20000	20600	21200							
lbs	28300	30900	32000	34200	35300	37500	38600	39700	41900	43000	44100	45400	46700										
<b>32"</b>																							
		kPa	105	140	170	210	245	270												30.5L-32			
		psi	15	20	25	30	36	40															
TGS	Logging	PR	16 32km/h(20mph) Maximum Speed																				
			kg	4710	5370																		
lbs	10390	11840																					
PR	16	16km/h(10mph) Maximum Speed	kg	4345	5140	5855	6520	7130															
			lbs	9580	11330	12910	14370	15720															

**For the Load and Inflation Pressure Tables of Bias Tires**

- 1) Maximum Speeds are as below. Earthmover Service : 50km/h (30mph), Grader Service : 40km/h (25mph), Loader & Dozer Service : 10km/h (5mph), Compactor Service : 10km/h (5mph)
- 2) Figures under the ply rating denote the maximum load and inflation pressures.
- 3) For Loader & Dozer Service, Dig & Load Operation or distances are up to 76m (250ft) one way.
- 4) For Load & Carry operations, tire load limit will be adjusted following the table of page 83.

Tire Size	Pattern	Ply Rating	TRA Code or Application	Spec	TKPH	TMPH	Approximate Inflated Dimensions				OTD	Minimum Dual Spacing	Recommended Rim/Flange Height
							OD mm inch	OW mm inch	SLR mm inch	SLW mm inch			
<b>33"</b>													
18.00-33 Tubeless	RLS	32	E4	E2A	161	110	1877 73.9	504 19.8	860 33.9	530 20.9	56.5	587 23.1	13.00/2.5
		36		E1A	182	125							
	ELS2	32	E4	E2A	161	110	1860 73.2	509 20.0	887 34.9	533 21.0	66.5	587 23.1	
		36		Industrial Service	IDU	-	-	See characteristics page 78					
<b>35/65-33</b>													
Tubeless	NL	24	L4	D2V	-	-	2085 82.1	890 35.0	953 37.5	928 36.5	62.5	-	28.00/3.5
		30											
	DL	24	L5	D2V	-	-	2085 82.1	890 35.0	979 38.5	945 37.2	97.0	-	
		30											
42													
<b>35"</b>													
21.00-35 Tubeless	RL	40	Industrial Service	IDU	-	-	See characteristics page 80						
	RLS	36	E4	E2A	204	140	2040 80.3	588 23.1	950 37.4	610 24.0	59.5	701 27.6	15.00/3.0
	ELS2	40	Industrial Service	IDU	-	-	See characteristics page 80						
<b>37.25-35</b>													
Tubeless	RL	36	E3	E1A	358	245	2330 91.7	955 37.6	1060 41.7	1000 39.4	51.5	-	31.00/4.0
<b>39"</b>													
40/65-39 Tubeless	DL	56	L5	D2V	-	-	2420 95.3	1020 40.2	1112 43.8	1070 42.1	106.5	-	32.00/4.0
<b>41.25/70-39</b>													
Tubeless	DL	42	L5	D2V	-	-	2510 98.8	1054 41.5	1145 45.1	1104 43.5	115.5	-	32.00/4.5
<b>45"</b>													
45/65-45 Tubeless	DL	38	L5	D2V	-	-	2730 107.5	1146 45.1	1261 49.6	1185 46.6	116.0	-	36.00/4.5
		58											
<b>51"</b>													
50/65-51 Tubeless	DL	62	L5	D2V	-	-	3070 120.9	1260 49.6	1412 55.6	1300 51.2	127.5	-	40.00/4.5
<b>57"</b>													
65/65-57 Tubeless	DL	62	L5	D2V	-	-	3735 147.0	1640 64.6	1672 65.8	1706 67.2	142.5	-	52.00/6.0

**For the TKPH(TMPH) Ratings of Bias Tires**

- 1) The figures are at 38°C (or 100°F) ambient temperature. If the ambient temperature is over 38°C (or 100°F), consult a Bridgestone Representative.
- 2) If the round-trip distance is less than 5km (or 3 miles), the above ratings can be increased by 12%.
- 3) If the Maximum Speed exceeds 50km/h (or 30 mph), consult a Bridgestone Representative.
- 4) When haul length exceeds 16km (10miles) one way, consult a Bridgestone Representative.

Pattern	Application Max.Speed km/h mph	PR	Tire Load Limits at Various Cold Inflation Pressures																	Size		
			kPa psi	275 40	300 44	325 47	350 51	375 54	400 58	425 62	450 65	475 69	500 73	525 76	550 80	575 83	600 87	625 91	650 94			
<b>33"</b>																						
RLS ELS2	E/M 50 30	PR	32																	18.00-33		
			kg	6500	6900	7300	7500	8000	8250	8500	8750	9000	9250	9750	10000	10300	10500	10700	10900			
				36																		
				lbs	14300	15200	16100	16500	17600	18200	18700	19300	19800	20400	21500	22000	22700	23100	23600	24000		
ELS2	IDU	See characteristics page 79																				
<b>35/65-33</b>																						
NL DL	Loader 10 5	PR	24					30					42							35/65-33		
			kg	16500	17000	18000	19000	19500	20000	21200	21800	22400	23000	23600	24300	25000	25750	26500				
				36																		
				lbs	36480	37500	39700	41900	43000	44100	46700	48100	49400	50700	52000	53600	55100	56800	58400			
<b>35"</b>																						
RLS	E/M	PR	36																	21.00-35		
50	30	kg	8750	9000	9500	10000	10300	10900	11200	11500	11800	12150	12500	12850								
				36																		
				lbs	19300	19800	20900	22000	22700	24000	24700	25400	26000	26800	27600	28300						
RL ELS2	IDU	See characteristics page 81																				
<b>37.25-35</b>																						
RL	E/M	PR	36																	37.25-35		
50	30	kg	13600	14500	15500	16500	17500	18500	19500													
				36																		
				lbs	30000	32000	34200	36400	38600	40800	43000											
<b>39"</b>																						
DL	Loader	PR	56																	40/65-39		
			kg	22400	23600	25000	25750	27250	28000	29000	30000	30750	31500	32500	34500	34500	36500	37500	38750		40000	41250
				56																		
				lbs	49400	52000	55100	56800	60000	61500	64000	66000	68000	69500	71500	76100	76000	80500	82700	85400	88200	90900
DL		PR	42																	41.25/70-39		
		kg	27250	29000	30000	31500	32500	33500	35500	36500	37500											
				42																		
				lbs	60000	64000	66000	69500	71500	74000	78500	80500	82500									
<b>45"</b>																						
DL	Loader	PR	38																	45/65-45		
			kg	30000	31500	32500	34500	35500	37500	38750	40000	41250	42500	43750	45000	46250	47250	48250	49250		50000	
				58																		
				lbs	66000	69500	71500	76000	78500	82500	85500	88000	91000	93500	96500	99000	102000	104200	106400	108600	110000	
<b>51"</b>																						
DL	Loader	PR	62																	50/65-51		
			kg	37500	40000	42500	43750	46250	47500	48750	51500	53000	54500	56000	58000	58000	60000	61500	63000			
				62																		
				lbs	82500	88000	93500	96500	102000	104500	107500	113500	117000	120000	123500	128000	128000	132500	135500	139000		
<b>57"</b>																						
DL	Loader	PR	62																	65/65-57		
			kg	67000	71000	73000	77500	80000	82500	87500	90000	92500	95000									
				62																		
				lbs	147500	156500	161000	171000	176500	182000	193000	198500	204000	209500								

**For the Load and Inflation Pressure Tables of Bias Tires**

- 1) Maximum Speeds are as below. Earthmover Service : 50km/h (30mph), Grader Service : 40km/h (25mph), Loader & Dozer Service : 10km/h (5mph), Compactor Service : 10km/h (5mph)
- 2) Figures under the ply rating denote the maximum load and inflation pressures.
- 3) For Loader & Dozer Service, Dig & Load Operation or distances are up to 76m (250ft) one way.
- 4) For Load & Carry operations, tire load limit will be adjusted following the table of page 83.

Tire Size	Pattern	Ply Rating	TRA Code or Application	Approximate Inflated Dimensions				OTD	Minimum Dual Spacing	Recommended Rim/Flange Height	
				OD mm inch	OW mm inch	SLR mm inch	SLW mm inch				
<b>Industrial Service</b>											
<b>20"</b>											
12.00-20	RL	20	Industrial Service	<b>1138</b>	<b>316</b>	<b>TBA*</b>	<b>TBA*</b>	<b>24.0</b>	<b>378</b>	8.50V	
				44.8	12.4	TBA*	TBA*				14.9
<b>24"</b>											
12.00-24	STMS	20	Industrial Service	<b>1275</b>	<b>321</b>	<b>606</b>	<b>339</b>	<b>55.0</b>	<b>391</b>	8.50V	
				50.2	12.6	23.9	13.3				15.4
14.00-24	RL	24 28	Industrial Service	<b>1355</b>	<b>367</b>	<b>627</b>	<b>400</b>	<b>28.0</b>	<b>450</b>	10.00W	
				53.3	14.4	24.7	15.7				17.7
14.00-24 TG Tubeless	RL	24	Industrial Service	<b>1360</b>	<b>395</b>	<b>614</b>	<b>410</b>	<b>28.0</b>	<b>450</b>	10.00VA	
				53.5	15.6	24.2	16.1				17.7
	RLS	24	Industrial Service	<b>1407</b>	<b>390</b>	<b>646</b>	<b>440</b>	<b>48.0</b>	-	-	
				55.4	15.4	25.4	17.3				-
<b>25"</b>											
16.00-25 Tubeless	RL	28 32	Industrial Service	<b>1495</b>	<b>445</b>	<b>671</b>	<b>459</b>	<b>33.5</b>	<b>513</b>	11.25/2.0	
				58.9	17.5	26.4	18.1				20.2
				<b>1548</b>	<b>438</b>	<b>722</b>	<b>460</b>				<b>57.0</b>
	RLS	28 32	Industrial Service	<b>1548</b>	<b>438</b>	<b>722</b>	<b>460</b>	<b>57.0</b>	<b>513</b>	20.2	
				60.9	17.2	28.4	18.1				20.2
	YS2	28 32	Industrial Service	<b>1465</b>	<b>430</b>	<b>658</b>	<b>472</b>	<b>49.2</b>	<b>513</b>	20.2	
				57.7	16.9	25.9	18.6				20.2
16.00-25	RL	28	Industrial Service	<b>1478</b>	<b>445</b>	<b>671</b>	<b>459</b>	<b>33.5</b>	<b>513</b>	20.2	
18.00-25 Tubeless	RL	36 40	Industrial Service	<b>1608</b>	<b>508</b>	<b>727</b>	<b>572</b>	<b>36.0</b>	<b>587</b>	13.00/2.5	
				63.3	20.0	28.6	22.5				23.1
				<b>1685</b>	<b>515</b>	<b>796</b>	<b>530</b>				<b>66.5</b>
	ELS2	40	Industrial Service	<b>1685</b>	<b>515</b>	<b>796</b>	<b>530</b>	<b>66.5</b>	<b>587</b>	23.1	
				66.3	20.3	31.3	20.9				23.1
	STMS	40	Industrial Service	<b>1675</b>	<b>520</b>	<b>762</b>	<b>550</b>	<b>84.0</b>	<b>587</b>	23.1	
				65.9	20.5	30.0	21.7				23.1
21.00-25 Tubeless	RL	40	Industrial Service	<b>1745</b>	<b>560</b>	<b>775</b>	<b>620</b>	<b>41.0</b>	<b>668</b>	15.00/3.0	
23.5-25 Tubeless	RLS	36	Industrial Service	<b>1658</b>	<b>615</b>	<b>724</b>	<b>668</b>	<b>67.5</b>	<b>695</b>	19.50/2.5	
				65.3	24.2	28.5	26.3				27.4
<b>33"</b>											
18.00-33 Tubeless	ELS2	36	Industrial Service	<b>1860</b>	<b>509</b>	<b>887</b>	<b>533</b>	<b>66.5</b>	<b>587</b>	13.00/2.5	
				73.2	20.0	34.9	21.0		23.1		

\*Due to factory transfer.

Pattern	Appli.	Ply Rating	Inflation Pressure	Tire Load Limits at Various Speeds										Size		
				kPa psi	km/h mph	0 Static	Creep Creep	5 3	10 5	15 9	20 12	25 15	30 19			
<b>Industrial Service</b>																
<b>20"</b>																
RL	IDU	20	Load Wheel	<b>1000</b>	<b>kg</b>	<b>11800</b>	<b>10600</b>	<b>9500</b>	<b>9000</b>	<b>8500</b>	<b>8500</b>	<b>8250</b>	<b>8250</b>	12.00-20		
				145	lbs	26000	23400	20900	19800	18700	18200	18200				
			Steering Wheel	<b>1000</b>	<b>kg</b>	<b>9500</b>	<b>8500</b>	<b>7750</b>	<b>7100</b>	<b>6900</b>	<b>6700</b>	<b>6500</b>	<b>6500</b>			
				145	lbs	20900	18700	17100	15700	15200	14800	14300	14300			
<b>24"</b>																
STMS	IDU	20	Load Wheel	<b>1000</b>	<b>kg</b>	<b>12500</b>	<b>10900</b>	<b>10000</b>	<b>9250</b>	<b>9000</b>	<b>8750</b>	<b>8500</b>	<b>8500</b>	12.00-24		
				145	lbs	27600	24000	22000	20400	19800	19300	18700	18700			
			Steering Wheel	<b>1000</b>	<b>kg</b>	<b>10000</b>	<b>8750</b>	<b>8000</b>	<b>7500</b>	<b>7100</b>	<b>7100</b>	<b>6900</b>	<b>6900</b>			
				145	lbs	22000	19300	17600	16500	15700	15700	15200	15200			
RL RLS	IDU	24	Load Wheel	<b>1000</b>	<b>kg</b>	<b>17000</b>	<b>15000</b>	<b>13600</b>	<b>12850</b>	<b>12500</b>	<b>12150</b>	<b>11800</b>	<b>11800</b>	14.00-24		
				145	lbs	37500	33100	30000	28300	27600	26800	26000	26000			
				Steering Wheel	<b>1000</b>	<b>kg</b>	<b>13600</b>	<b>12150</b>	<b>10900</b>	<b>10300</b>	<b>10000</b>	<b>9750</b>	<b>9500</b>		<b>9500</b>	
					145	lbs	30000	26800	24000	22700	22000	21500	20900		20900	
		28	Load Wheel	<b>1000</b>	<b>kg</b>	<b>18000</b>	<b>16000</b>	<b>14500</b>	<b>13600</b>	<b>12850</b>	<b>12850</b>	<b>12500</b>	<b>12500</b>			
				145	lbs	39700	35300	32000	30000	28300	28300	27600	27600			
				Steering Wheel	<b>1000</b>	<b>kg</b>	<b>14500</b>	<b>12850</b>	<b>11500</b>	<b>10900</b>	<b>10300</b>	<b>10300</b>	<b>10000</b>	<b>10000</b>		
					145	lbs	32000	28300	25400	24000	22700	22700	22000	22000		
<b>25"</b>																
RL RLS YS2	IDU	28	Load Wheel	<b>900</b>	<b>kg</b>	<b>20600</b>	<b>18500</b>	<b>16500</b>	<b>15500</b>	<b>15000</b>	<b>14500</b>	<b>14500</b>	<b>14500</b>	16.00-25		
				131	lbs	45400	40800	36400	34200	33100	32000	32000	32000			
						Steering Wheel	<b>900</b>	<b>kg</b>	<b>16500</b>	<b>14500</b>	<b>13200</b>	<b>12500</b>	<b>11800</b>		<b>11500</b>	<b>11500</b>
		131	lbs				36400	32000	29100	27600	26000	25400	25400		25400	
							32	Load Wheel	<b>1000</b>	<b>kg</b>	<b>22400</b>	<b>20000</b>	<b>18000</b>		<b>17000</b>	<b>16500</b>
				145	lbs	49400			44100	39700	37500	36400	35300		34200	34200
				Steering Wheel	<b>1000</b>	<b>kg</b>			<b>18000</b>	<b>16000</b>	<b>14500</b>	<b>13600</b>	<b>12850</b>	<b>12850</b>	<b>12500</b>	<b>12500</b>
		145	lbs		39700	35300	32000	30000	28300	28300	27600	27600				
		<b>18.00-25</b>														
RL ELS2 STMS	IDU	36	Load Wheel	<b>1000</b>	<b>kg</b>	<b>29000</b>	<b>25750</b>	<b>23000</b>	<b>21800</b>	<b>20600</b>	<b>20600</b>	<b>20000</b>	<b>20000</b>	18.00-25		
				145	lbs	64000	56800	50700	48100	45400	45400	44100	44100			
				Steering Wheel	<b>1000</b>	<b>kg</b>	<b>23000</b>	<b>20600</b>	<b>18500</b>	<b>17500</b>	<b>16500</b>	<b>16500</b>	<b>16000</b>		<b>16000</b>	
					145	lbs	50700	45400	40800	38600	36400	36400	35300		35300	
		40	Load Wheel	<b>1000</b>	<b>kg</b>	<b>30750</b>	<b>27250</b>	<b>24300</b>	<b>23000</b>	<b>21800</b>	<b>21800</b>	<b>21200</b>	<b>21200</b>			
				145	lbs	68000	60000	53600	50700	48100	48100	46700	46700			
			Steering Wheel	<b>1000</b>	<b>kg</b>	<b>25000</b>	<b>21800</b>	<b>19500</b>	<b>18500</b>	<b>17500</b>	<b>17500</b>	<b>17000</b>	<b>17000</b>			
				145	lbs	55100	48100	43000	40800	38600	38600	37500	37500			
<b>21.00-25</b>																
RL	IDU	40	Load Wheel	<b>1000</b>	<b>kg</b>	<b>36500</b>	<b>32500</b>	<b>29000</b>	<b>27250</b>	<b>26500</b>	<b>25750</b>	<b>25000</b>	<b>25000</b>	21.00-25		
				145	lbs	80500	71500	64000	60000	58400	56800	55100	55100			
			Steering Wheel	<b>1000</b>	<b>kg</b>	<b>29000</b>	<b>25750</b>	<b>23600</b>	<b>21800</b>	<b>21200</b>	<b>20600</b>	<b>20000</b>	<b>20000</b>			
				145	lbs	64000	56800	52000	48100	46700	45400	44100	44100			
<b>23.5-25</b>																
RLS	IDU	36	Load Wheel	<b>830</b>	<b>kg</b>	<b>28000</b>	<b>25000</b>	<b>22400</b>	<b>21200</b>	<b>20000</b>	<b>20000</b>	<b>19500</b>	<b>19500</b>	23.5-25		
				120	lbs	61500	55100	49400	46700	44100	44100	43000	43000			
			Steering Wheel	<b>830</b>	<b>kg</b>	<b>22400</b>	<b>20000</b>	<b>18000</b>	<b>17000</b>	<b>16000</b>	<b>16000</b>	<b>15500</b>	<b>15500</b>			
				120	lbs	49400	44100	39700	37500	35300	35300	34200	34200			
<b>33"</b>																
ELS2	IDU	36	Load Wheel	<b>1000</b>	<b>kg</b>	<b>33500</b>	<b>29000</b>	<b>26500</b>	<b>25000</b>	<b>24300</b>	<b>23600</b>	<b>23000</b>	<b>23000</b>	18.00-33		
				145	lbs	74000	64000	58400	55100	53600	52000	50700	50700			
			Steering Wheel	<b>1000</b>	<b>kg</b>	<b>26500</b>	<b>23600</b>	<b>21200</b>	<b>20000</b>	<b>19000</b>	<b>19000</b>	<b>18500</b>	<b>18500</b>			
				145	lbs	58400	52000	46700	44100	41900	41900	40800	40800			

Tire Size	Pattern	Ply Rating	TRA Code or Application	Approximate Inflated Dimensions				OTD	Minimum Dual Spacing	Recommended Rim/Flange Height
				OD mm inch	OW mm inch	SLR mm inch	SLW mm inch			
<b>35"</b>										
21.00-35 Tubeless	RL	40	Industrial Service	2000 78.7	575 22.6	937 36.9	648 25.5	41.0	701 27.6	15.00/3.0
	ELS2	40	Industrial Service	2040 80.3	592 23.3	955 37.6	617 24.3	67.0	701 27.6	

Pattern	Appli.	Ply Rating	Inflation Pressure	Tire Load Limits at Various Speeds										Size
				kPa psi	km/h mph	0 Static	Creep Creep	5 3	10 5	15 9	20 12	25 15	30 19	
<b>35"</b>													21.00-35	
RL	IDU	40	Load Wheel	1000 145	kg lbs	43750 96500	38750 85500	35500 78500	32500 71500	31500 69500	30750 68000	30000 66000		30000 66000
ELS2			Steering Wheel	1000 145	kg lbs	34500 76000	30750 68000	28000 61500	26500 58400	25000 55100	25000 55100	24300 53600		24300 53600

**Off-the-Road Tires Used for Industrial Vehicle Applications**

- 1) Industrial Vehicles comprise vehicles such as counter-balanced lift trucks, container handlers, straddle carriers, aircraft tow tractors, mobile crushers, log stackers etc., used on hard improved surfaces, smooth floors and runways.
- 2) Use Specifications of **Industrial Service only**.
- 3) Consult a Rim Manufacturer when inflation pressure exceeds 800kPa (116psi).
- 4) For Speeds exceeding 30km/h (18mph), consult a Bridgestone Representative.
- 5) For tire sizes and star ratings other than listed above, consult a Bridgestone Representative.
- 6) For RTG (Rubber Tired Gantry Crane) operation, consult a Bridgestone Representative.

Tire Size	Pattern	Ply Rating	TRA Code or Application	Approximate Inflated Dimensions				OTD	Minimum Dual Spacing	Recommended Rim/Flange Height
				OD mm inch	OW mm inch	SLR mm inch	SLW mm inch			
<b>Sand Service 20"</b>										
14.00-20	SCP2	18	E7	1206 47.5	370 14.6	TBA* TBA*	TBA* TBA*	10.5	- -	9.00V

\*Due to factory transfer.

Pattern	Appli.	Max. Speed	Tire Load Limits at Various Cold Inflation Pressures (100kPa = 1bar)								Size
			kPa psi	70 10	100 15	140 20	170 25	210 30	240 35		
<b>Sand Service 20"</b> *When tires are to be used under conditions other than those recommended above, consult a Bridgestone Representative.											
SCP2	Sand	10km/h 5mph	kg lbs	1960 4320	2485 5480	2950 6500	3355 7400	3720 8200	4080 9000	14.00-20	
		50km/h 30mph	kg lbs	1340 2950	1695 3740	2015 4440	2285 5040	2550 5620	2790 6150		
		65km/h 40mph	kg lbs	1135 2500	1435 3160	1695 3740	140 4280	2160 4760	2360 5200		

## 4. Remarks

### 4.1 Excess Load

Due to the specialized nature of Off-The-Road vehicle usage, loads in excess of those in the appropriate above-listed load tables are often encountered.

These excess loads result from items such as actual vehicle weight exceeding the design weight, varying density of materials, field modifications to the equipment, load transfer, etc.

Only under these conditions, the actual tire load in service may exceed the above load ratings for the tire(\*) by an amount not greater than shown in the following table:

	E2, E3, E4*	L**
Maximum Excess Load	15%	15%
Maximum Excess Pressure	30%	30%
Maximum Pressure	<b>825kPa</b>	<b>825kPa</b>
	120psi	120psi

When excess loads are encountered, cold inflation pressures must be increased to compensate for higher loads. For each 1% increase in load, the inflation pressure must be increased by 2%.

\*except following sizes on the list 

9.00-20	10.00-20	11.00-20
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\*\*except following sizes on the list

5.70-12	33x12.5-15	12-16.5	15.5/70-18	17.5/65-20
23x8.50-12	12.5/70-16	12.5/65-18	15.5/70-20	16.9-24
27x8.50-15	10-16.5	15.5/60-18	42x17-20	18.4-24

**The maximum excess loads will result in reduced tire performance.**

### 4.2 The Variation in Load Carrying Capacity with Operating Speed

Operating Speed (km/h)	E2, E3, E4**	G	L***
Static			+60%
Creep	*		+30%
4			+15%
10			0
15	+12%	-	-13%
20	+10%		-
25	+8%		-20%
30	+6%		
35	+4%		
40	+3%	0	
45	+2%	-	
50	0	-9%	
55	*	-	
60	*	-18%	
65	*	-27%	
70	*		
75	*		
80	*		
80<	*		

■ Reference speed for calculating load variance  
\* Consult a Bridgestone Representative

\*\*except following sizes on the list 

9.00-20	10.00-20	11.00-20
---------	----------	----------

\*\*\*except following sizes on the list

5.70-12	33x12.5-15	12-16.5	15.5/70-18	17.5/65-20
23x8.50-12	12.5/70-16	12.5/65-18	15.5/70-20	16.9-24
27x8.50-15	10-16.5	15.5/60-18	42x17-20	18.4-24

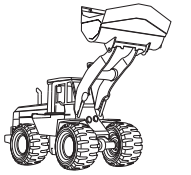
### 4.3 Load-and-Carry Operations for Front End Loader Service

Service conditions of a loader is defined as "picking up material and relocating a short distance away, a maximum of 76m (250 feet), one way, with a maximum speed of 10km/h (5mph)". However, a loader can pick up a load and transport such load to another location and return unloaded for a longer distance. This type of service is called **Load-and-Carry** operations. Transportation usually occurs at low speeds, up to 25km/h (15mph), and distances are limited.

The tires when used in Load-and-Carry operations may encounter heat problems especially on the front axle tires. To avoid such problems, Bridgestone recommends the following operating conditions.

For tires over 33" inch rim diameter tires, careful study is required to maximize tire life while considering Ton-Kilometer-Per-Hour (Ton-Mile-Per-Hour) limits. Please consult Bridgestone representative for more information.

If you need to use the tire beyond this recommendation, please consult Bridgestone representative.



#### For Bias Tires

Tread Class	Inflation Pressure for Front Tires	Load Capacity** 10km/h (5mph)		Maximum Cycle Distance (m)	Allowable Average Work-shift Speed (km/h)
		Rim Diameter			
		29" and below	33" and above		
L2, L3	Standard inflation pressure + 100kpa (15psi)	90% of STD. load	85% of STD. load	1200	10
L4				500	3
L5			***	300	
L5S					

\*\* STD.load: Maximum permissible load at standard inflation pressure for respective tire size and star rating.

Please refer to the load - inflation pressure table for loader and dozer service "10km/h (5mph) service".

\*\*\*Not permissible

The inflation pressure should not exceed 825kPa (120psi).

### 4.4 Other Remark

For L5/L5S tyres following sizes on the list, on front tires for front end loaders, it is permissible to increase inflation pressure up to 100kPa (15psi) above, with no increase in load. (Maximum inflation pressure should not exceed 825 kPa (120psi).)

17.5-25	26.5-25	35/65-33	45/65-45
20.5-25	29.5-25	40/65-39	50/65-51
23.5-25	29.5-29	41.25/70-39	65/65-57

# OTHER SPECIFICATION

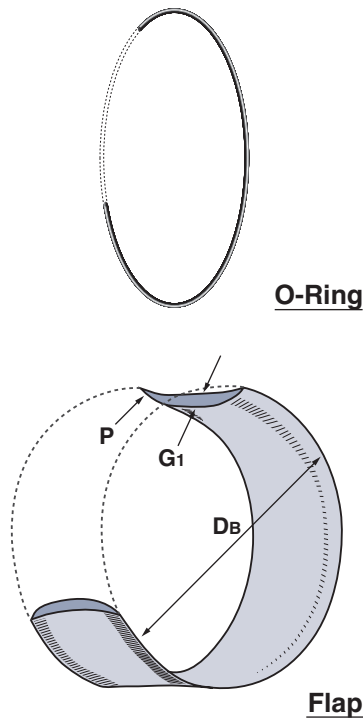
## 1. O-Ring Specifications

Code No.	Applicable Size		Diameter		Inner Circumference	
	Radial	Bias	mm	inch	mm	inch
P-24A	13.00R24 TG 14.00R24 TG 16.00R24 TG	13.00-24 TG 14.00-24 TG -	6.6	0.26	1768	69.61
P-25AX	14.00R25* 15.5R25 17.5R25 20.5R25 29.5R25 385/95R25 445/80R25 445/95R25	- 15.5-25 17.5-25 20.5-25 - - - -	6.8	0.27	1779	70.04
P-25B	14.00R25** 16.00R25 17.5R25 18.00R25 20.5R25 21.00R25 23.5R25 25/65R25 26.5R25 29.5R25 30/65R25(750/65R25) 385/95R25 445/80R25 445/95R25 505/95R25 525/80R25 550/65R25 650/65R25 750/65R25	- 16.00-25 17.5-25 18.00-25 20.5-25 21.00-25 23.5-25 - 26.5-25 29.5-25 - - - - - - - - - -	9.8	0.39	1779	70.04
P-29B	29.5R29 33.25R29 775/65R29 875/65R29	29.5-29 - - -	9.8	0.39	2127	83.74
P-33B	18.00R33 21.00R33 35/65R33	18.00-33 - 35/65-33	9.8	0.39	2382	93.78
P-35B	21.00R35 24.00R35 29.5R35 33.25R35 37.25R35	21.00-35 - - - 37.25-35	9.8	0.39	2572	101.26
P-39B	37.5R39 - 40.5/75R39 - 45/65R39	- - 40/65-39 - 41.25/70-39 -	9.8	0.39	2900	114.17
P-45B	45/65R45	45/65-45	9.8	0.39	3326	130.94
P-49B	24.00R49 27.00R49 31/90R49	- - -	9.8	0.39	3611	142.17
P-51C	30.00R51 33.00R51 36.00R51 50/65R51	- - - 50/65-51	12.7	0.5	3694	145.43
P-57C	37.00R57 40.00R57 42/90R57 46/90R57 50/90R57 55.5/80R57 60/80R57 -	- - - - - - 65/65-57 -	12.7	0.5	4129	162.56
P-63C	53/80R63 59/80R63	- -	12.7	0.5	4580	180.31

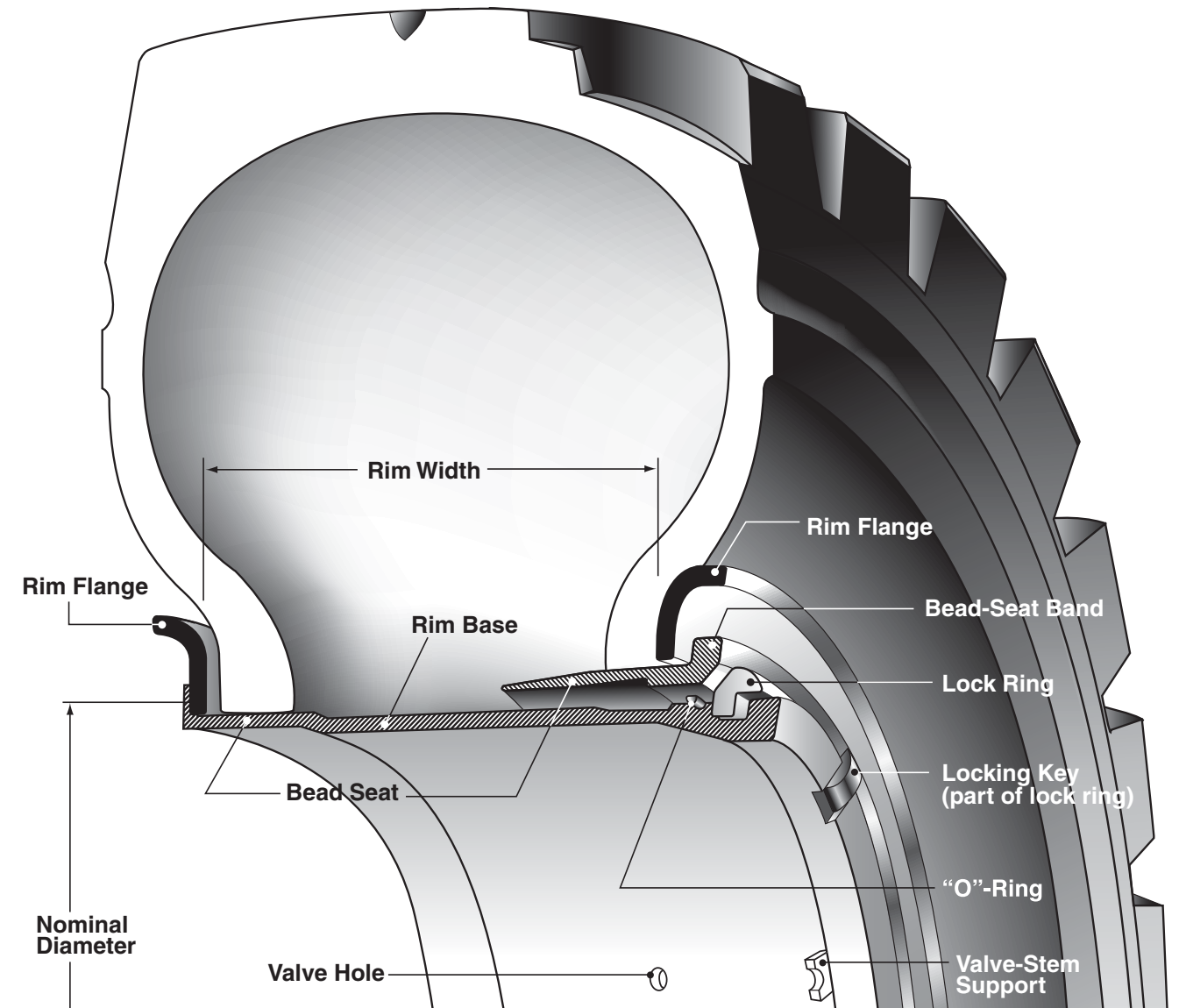
\* For Rim Size 10.00-25  
\*\* For Rim Size 11.25-25

## 2. Flap Specifications

Flap	$\pi D_B$		$G_1$		P	
	mm	inch	mm	inch	mm	inch
550/600-15	1175	46.3	4.0	0.16	129	5.1
650/700/750-15	1177	46.3	4.5	0.18	169	6.7
12/65B-15	1196	47.1	7.0	0.28	270	10.6
750/825AR15	1201	47.3	6.0	0.24	184	7.2
750/825-R16	1255	49.4	5.0	0.20	174	6.9
200D1000-R15	1201	47.3	6.5	0.26	205	8.1
700A825-R20	1255	49.4	5.0	0.20	180	7.1
900A111-R20	1201	47.3	6.0	0.24	205	8.1
1100B13/80-R20	1594	62.8	6.5	0.26	218	8.6
1400/14/80R20	1594	62.8	8.5	0.33	240	9.4
1300A1600-20	1618	63.7	8.0	0.31	246	9.7
42x17-20	1576	62.1	9.0	0.35	390	15.4
14/70-20	1587	62.5	9.0	0.35	331	13.0
1300-24	1916	75.4	9.0	0.35	229	9.0
1200A1400-24,25	1942	76.5	9.0	0.35	232	9.1
1100B1300-R24	1922	75.7	7.5	0.30	220	8.7
1300/1400-24,25	1942	76.5	9.0	0.35	232	9.1
1400/1600R24,25	1942	76.5	9.0	0.35	260	10.2
1600-24,25	1916	75.4	9.0	0.35	293	11.5
155A1800-24,25	1926	75.8	6.0	0.24	340	13.4
235-25	1934	76.1	9.0	0.35	560	22.1
265-25	2010	79.1	12.0	0.47	570	22.4
2100R33	2553	100.5	9.0	0.35	413	16.3



## 3. Rim and Valve



Five-piece fully-tapered bead-seat rim with air-sealing "O"-ring gasket for earthmover

**8.50V × 24**

Nominal Diameter of Rim (inches)  
Flange Type  
Rim Width (inches)

### 3.1 Rim Designation

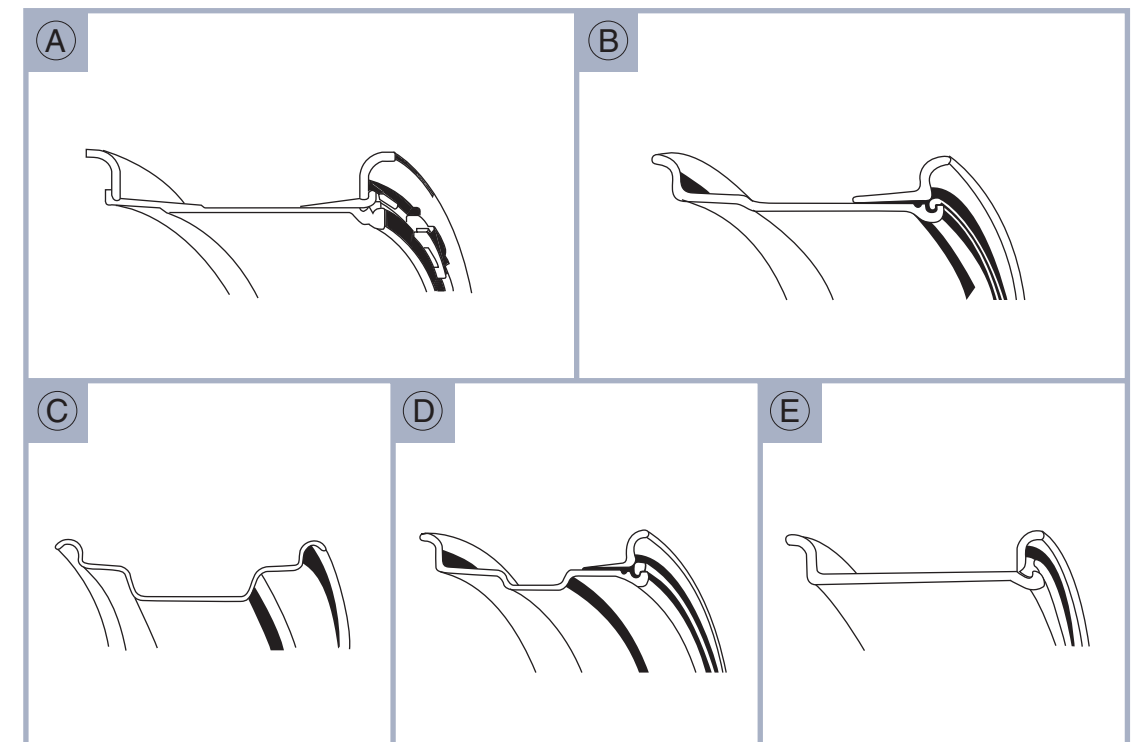
Full Tapered Bead Seat Rims (5 pieces)		
Recommended Rim/ Flange Height	Tire Size	
	Radial	Bias
11.00/1.5	14.5R15	-
11.25/2.0	16.00R25	16.00-25
	445/95R25(16.00R25)	-
13.00/2.5	18.00R25	18.00-25
	505/95R25(18.00R25)	-
	18.00R33	18.00-33
15.00/3.0	21.00R25	21.00-25
	21.00R33	-
	21.00R35	21.00-35
17.00/2.0	550/65R25	-
17.00/3.5	24.00R35	24.00-35
	24.00R49	-
18.00/1.5	24R21	-
19.50/2.5	23.5R25	23.5-25
	650/65R25	-
19.50/4.0	27.00R49	-
	31/90R49	-
20.00/2.0	25/65R25	-
22.00/3.0	750/65R25(30/65R25)	-
	26.5R25	26.5-25
22.00/4.5	30.00R51	-
24.00/3.0	750/65R25(30/65R25)	-
24.00/3.5	775/65R29	-
24.00/5.0	33.00R51	-
25.00/3.5	29.5R25	29.5-25
	775/65R29	-
	29.5R29	29.5-29
	29.5R35	-
26.00/5.0	36.00R51	-
27.00/3.5	875/65R29	-
	33.25R29	-
	33.25R35	-
27.00/6.0	37.00R57	-
	42/90R57	-
28.00/3.5	875/65R29	-
	35/65R33	35/65-33
29.00/6.0	40.00R57	-
	46/90R57	-
31.00/4.0	37.25R35	37.25-35
32.00/4.0	-	40/65-39
32.00/4.5	37.5R39	-
	40.5/75R39	-
	-	41.25/70-39
	45/65R39	-
32.00/6.5	50/90R57	-
34.00/6.5	50/90R57	-
36.00/4.5	45/65R39	-
	45/65R45	45/65-45
36.00/5.0	53/80R63	-
40.00/4.5	50/65R51	50/65-51
41.00/5.0	59/80R63	-
44.00/5.0	59/80R63	-
44.00/6.0	55.5/80R57	-
47.00/6.0	60/80R57	-
52.00/6.0	-	65/65-57

Full Tapered Bead Seat Rims (3 pieces)		
Recommended Rim/ Flange Height	Tire Size	
	Radial	Bias
10.00/1.5	14.00R25	14.00-25
	385/95R25(14.00R25)	-
12.00/1.3	15.5R25	15.5-25
14.00/1.5	17.5R25	17.5-25
	445/80R25(17.5R25)	-
	550/65R25	-
17.00/2.0	550/65R25	-
17.00AL/1.7(★1only)	20.5R25	-
17.00/1.7	-	20.5-25
17.00/2.0	20.5R25	20.5-25
	525/80R25(20.5R25)	-

Drop Center Rims (DC, W, DW)		
Recommended Rim/ Flange Height	Tire Size	
	Radial	Bias
5JA	-	5.70-12
	-	23x8.50-12
4.50E	-	5.50-15
5.1/2K	-	9.00-15
5.50F	-	9.00-15
7JA	-	23x8.50-12
	-	27x8.50-15
	-	9.5/65-15
11LB	-	14.0/65-15
6LB	-	7.50-16
8LB	-	10.5/80-16
10LB	-	12.5/70-16
8.25	-	10-16.5
9.75	-	12-16.5
W10	-	12.5/65-18
W13	-	15.5/70-18
	-	15.5/70-20
W14L	-	17.5/65-20
	-	16.9-24
W15L	-	18.4-24
	-	16.9-28
DW20B	-	23.1-26
DW21B	-	24.5-32
DW27B	-	30.5L-32

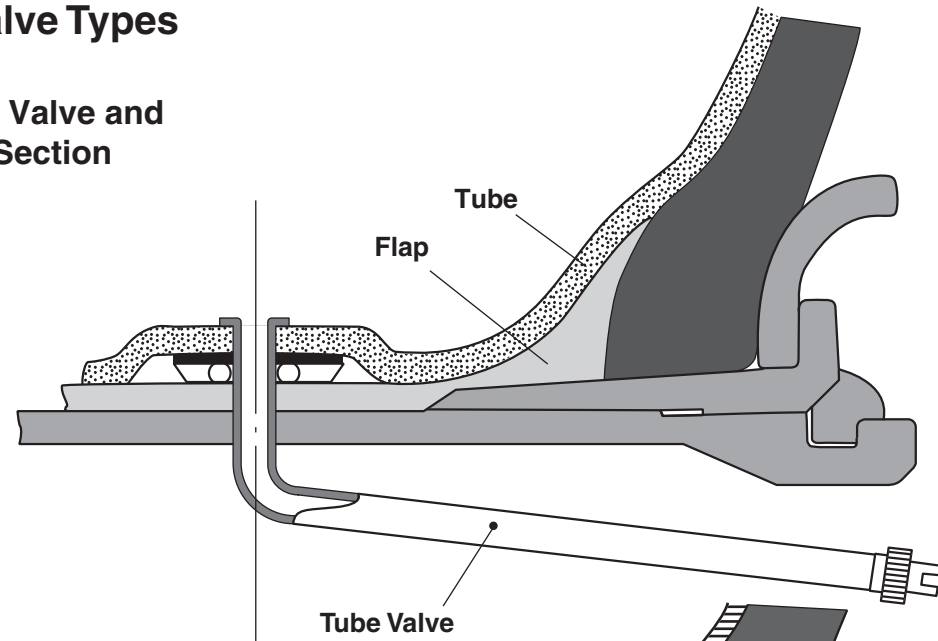
Semi Drop Center Rims (SDC)		
Recommended Rim/ Flange Height	Tire Size	
	Radial	Bias
6.00GS	-	7.50-15
	-	7.50-16
8.00TG	13.00R24 TG	-
	-	14.00-24 TG
10.00F	-	33x12.5-15
10.00VA	-	13.00-24 TG
	14.00R24 TG	14.00-24 TG
	16.00R24 TG	16.00-24 TG
11x20	335/80R20	-
	365/80R20	-
11.00TG	-	14/70-20
13x20	405/70R20	-
14.00TG	-	42x17-20

Flat Base Rims		
Recommended Rim/ Flange Height	Tire Size	
	Radial	Bias
6.50T	8.25R15	-
	-	8.25-20
7.00T	9.00R20	9.00-20
7.50V	10.00R15	-
	-	10.00-20
	-	14.00-20
8.00V	11.00R20	11.00-20
8.5	-	12.00-24
8.50V	12.00R20	12.00-20
	12.00R24	12.00-24
9.00	12R22.5	-
9.00V	-	14.00-24
10.00WI	14.00R20	-
10.00W	16.00R20	-
	14.00R24	14.00-24
	385/95R24(14.00R24)	-
	385/95R25(14.00R25)	-

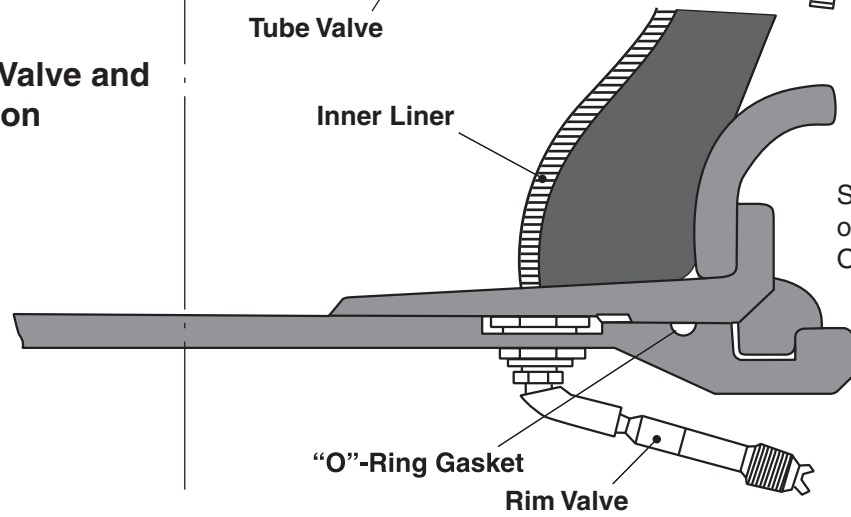


### 3.2 Valve Types

#### Tube Valve and Rim Section



#### Tubeless Valve and Rim Section

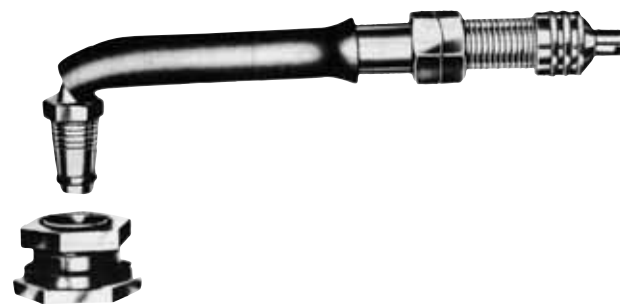


Standard valve location is on center line  
Optional location is shown.

#### Tube Valve

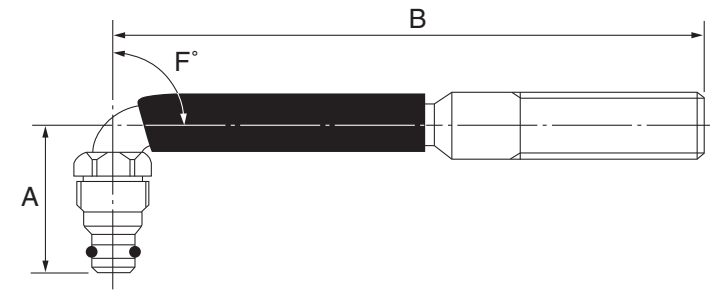


#### Tubeless Valve



#### Interchangeable Swivel Valves For Tubeless Or Tube Type Tires

TRJ4000-4 1/2



Large Bore Valves

Valve No.	Dimensions (mm)		
	A	B	F°
TRJ650	27.5	79.5	80°
TRJ4000-4 1/2	31	114.0	90°
TRJ4000-8	31	203.0	90°
TRJ4000-7 1/2	31	190.5	90°

This type of VALVE consists of a combination of the rubber base SP-4000 or SP-2.

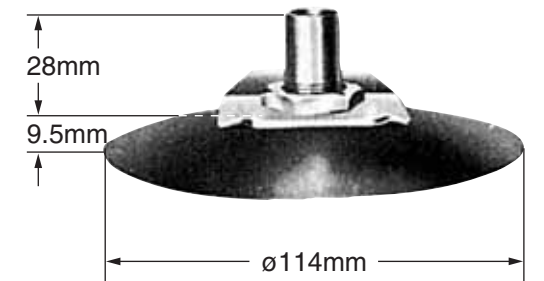
#### Tubeless Type Spud

SP2



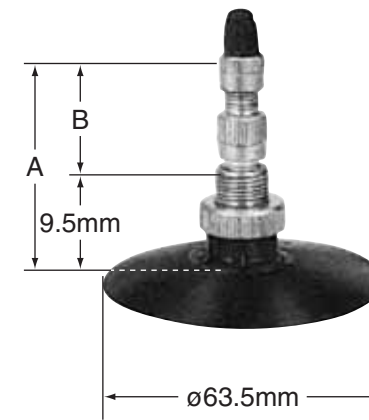
#### Tube Type Spud

SP4000



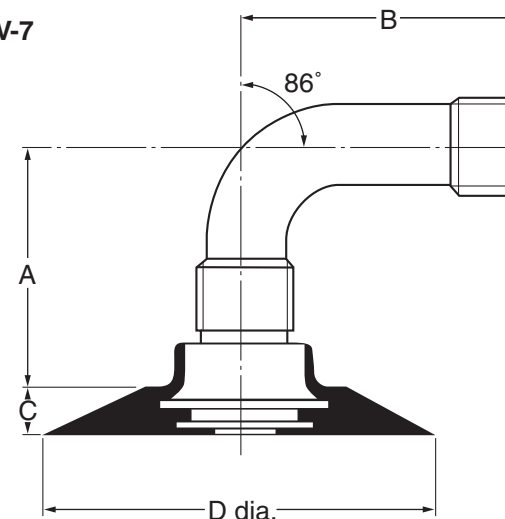
#### Tube Type Rubber Base Valves

TR218



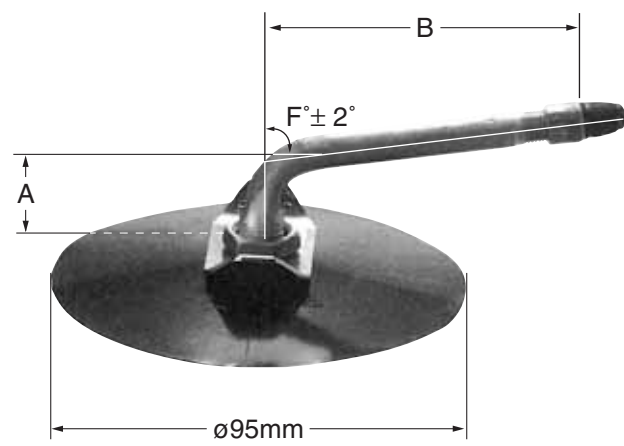
Valve No.	Dimensions (mm)	
	A	B
TR218A	20.6	11.1
TR220A	30.2	20.7

PV-7



Valve No.	Dimensions (mm)			
	A	B	C	D dia.
PV-7	73	100	7	90

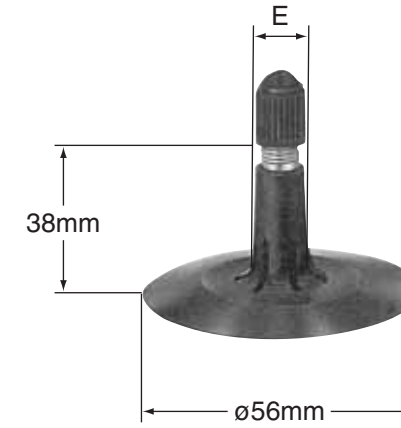
JS75



Valve No.	Dimensions (mm)		
	A	B	F°
JS75	24	70	82°
TR76A	24	86	86°
TR77A	24	105	86°
TR77E	35	94	86°
TR78A	24	127	86°
TR175A	24	115	86°
TR177A	24	95	86°
JS177B	28	91	86°
JS179	36	133	86°
JS179A	29	137	86°
TR179A	24	141	86°
PV38	24	136	80°
PV89	42.8	123	86°
V3-02-3	35.8	44.5	85°
V3-02-15	23.3	145.5	86°

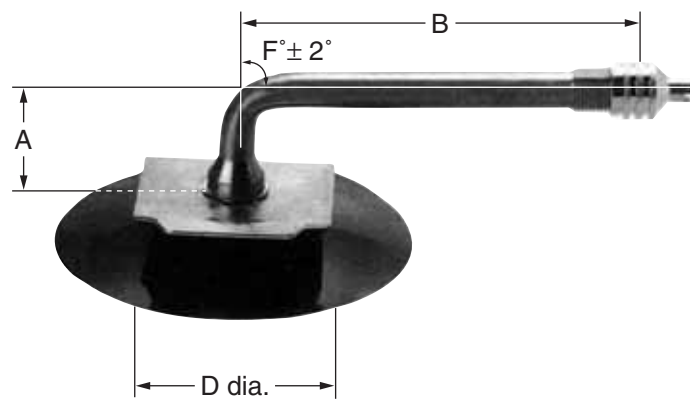
Tube Type Rubber Covered Valves

TR13



Valve No.	Dimensions (mm)
	E
TR13	11.5
TR15	16.5

JSJ1175

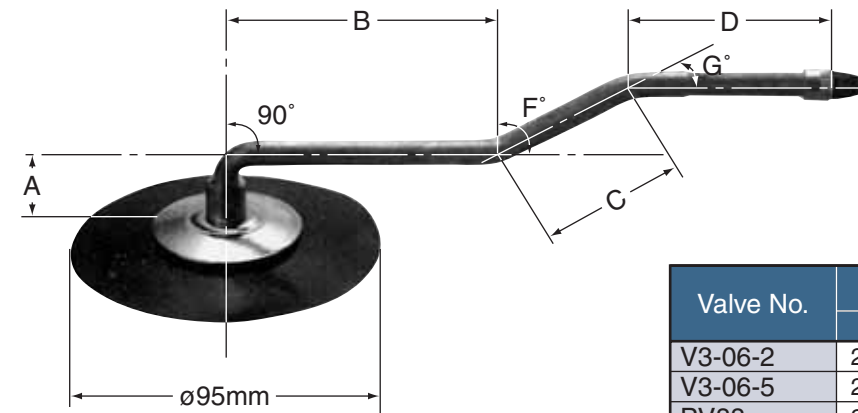


Large Bore Valves

Valve No.	Dimensions (mm)			
	A	B	D dia.	F°
JSJ1078S	30	121	32	84°
JSJ1175	35	105	32	88°
JSJ1175B	35	105	32	80°
JSJ1175C	35	102	32	60°

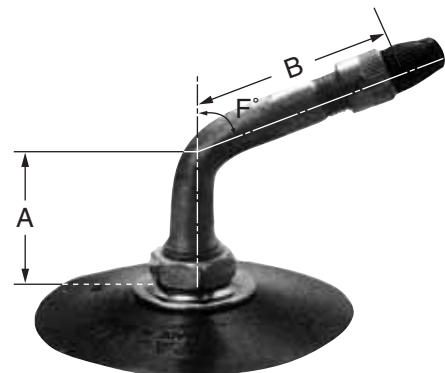
Tube Type Screw-on Valves

PV88



Valve No.	Dimensions (mm)					
	A	B	C	D	F°	G°
V3-06-2	23.3	44.5	20.8	37.5	55°	55°
V3-06-5	23.3	62.5	25.9	49.0	41°	41°
PV88	26.3	80.5	47.0	54.5	30°	30°
PV118	35.4	130.0	84.0	-	10°	-

JS2



Valve No.	Dimensions (mm)		
	A	B	F°
JS2	26	33	70°

TR150CW



Valves, TR150 and TR150CW, are also called Hand Bendable Valves, that is, their stems are made of very flexible material permitting manual bending in all directions and to any angle.

# OTHER INFORMATION

## 1. Unit Conversion Tables

### INFLATION PRESSURE

kg/cm <sup>2</sup>	lb/in <sup>2</sup>	kPa	bar	kg/cm <sup>2</sup>	lb/in <sup>2</sup>	kPa	bar
0.1	1	10	0.1	2.6	37	250	2.5
0.2	3	20	0.2	2.7	38	260	2.6
0.3	4	30	0.3	2.8	40	270	2.7
0.4	6	40	0.4	2.9	41	280	2.8
0.5	7	50	0.5	3.0	43	290	2.9
0.6	9	60	0.6	3.1	44	300	3.0
0.7	10	70	0.7	3.2	45	310	3.1
0.8	11	80	0.8	3.3	47	320	3.2
0.9	13	90	0.9	3.4	48	330	3.3
1.0	14	100	1.0	3.5	50	340	3.4
1.1	16	110	1.1	3.6	51	350	3.5
1.2	17	120	1.2	3.7	53	360	3.6
1.3	18	130	1.3	3.8	54	370	3.7
1.4	20	140	1.4	3.9	55	380	3.8
1.5	21	150	1.5	4.0	57	390	3.9
1.6	23	160	1.6	4.1	58	400	4.0
1.7	24	170	1.7	4.2	60	410	4.1
1.8	26	180	1.8	4.3	61	420	4.2
1.9	27	190	1.9	4.4	62	430	4.3
2.0	28	200	2.0	4.5	64	440	4.4
2.1	30	210	2.1	4.6	65	450	4.5
2.2	31	220	2.2	4.7	67	460	4.6
2.3	33	230	2.3	4.8	68	470	4.7
2.4	34	240	2.4	4.9	70	480	4.8
2.5	36	250	2.5	5.0	71	490	4.9

### WEIGHT (FROM POUND TO KILOGRAM)

lb	kg	lb	kg	lb	kg	lb	kg
1	0.5	260	117.9	1200	544.3	5000	2268.0
10	4.5	280	120.0	1300	589.7	5200	2358.7
20	9.1	300	136.1	1400	635.0	5400	2449.4
30	13.6	320	145.2	1500	680.4	5600	2540.2
40	18.1	340	154.2	1600	725.8	5800	2630.9
50	22.7	360	163.3	1700	771.1	6000	2721.6
60	27.2	380	172.4	1800	816.5	7000	3175.2
70	31.8	400	181.4	1900	861.8	8000	3628.8
80	36.3	420	190.5	2000	907.2	9000	4082.4
90	40.8	440	199.6	2200	997.9	10000	4536.0
100	45.4	460	208.7	2400	1088.6	11000	4989.6
110	49.9	480	217.7	2600	1179.4	12000	5443.2
120	54.4	500	226.8	2800	1270.1	13000	5896.8
130	59.0	520	235.9	3000	1360.8	14000	6350.4
140	63.5	540	244.9	3200	1451.5	15000	6804.0
150	68.0	560	254.0	3400	1542.2	16000	7257.6
160	72.6	580	263.1	3600	1633.0	17000	7711.2
170	77.1	600	272.2	3800	1723.7	18000	8164.8
180	81.6	700	317.5	4000	1814.4	19000	8618.4
190	86.2	800	362.9	4200	1905.1	20000	9072.0
200	90.7	900	408.2	4400	1995.8		
220	99.8	1000	453.6	4600	2086.6		
240	108.9	1100	499.0	4800	2177.3		

### TEMPERATURE

### (CENTIGRADE/FAHRENHEIT)

°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F
-19	-2.2	+11	+51.8	+41	+105.8	+71	+159.8	+101	+213.8	+131	+267.8
18	0.4	12	53.6	42	107.6	72	161.6	102	215.6	132	269.6
17	+1.4	13	55.4	43	109.4	73	163.4	103	217.4	133	271.4
16	3.2	14	57.2	44	111.2	74	165.2	104	219.2	134	273.2
15	5.0	15	59.0	45	113.0	75	167.0	105	221.0	135	275.0
14	6.8	16	60.8	46	114.8	76	168.8	106	222.8	136	276.8
13	8.6	17	62.6	47	116.6	77	170.6	107	224.6	137	278.6
12	10.4	18	64.4	48	118.4	78	172.4	108	226.4	138	280.4
11	12.2	19	66.2	49	120.2	79	174.2	109	228.2	139	282.2
10	14.0	20	68.0	50	122.0	80	176.0	110	230.0	140	284.0
9	15.8	21	69.8	51	123.8	81	177.8	111	231.8	141	285.8
8	17.6	22	71.6	52	125.6	82	179.6	112	233.6	142	287.6
7	19.4	23	73.4	53	127.4	83	181.4	113	235.4	143	289.4
6	21.2	24	75.2	54	129.2	84	183.2	114	237.2	144	291.2
5	23.0	25	77.0	55	131.0	85	185.0	115	239.0	145	293.0
4	24.8	26	78.8	56	132.8	86	186.8	116	240.8	146	294.8
3	26.6	27	80.6	57	134.6	87	188.6	117	242.6	147	296.6
2	28.4	28	82.4	58	136.4	88	190.4	118	244.4	148	298.4
1	30.2	29	84.2	59	138.2	89	192.2	119	246.2	149	300.2
0	32.0	30	86.0	60	140.0	90	194.0	120	248.0	150	302.0
+1	33.8	31	87.8	61	141.8	91	195.8	121	249.8	160	320.0
2	35.6	32	89.6	62	143.6	92	197.6	122	251.6	170	338.0
3	37.4	33	91.4	63	145.4	93	199.4	123	253.4	180	356.0
4	39.2	34	93.2	64	147.2	94	201.2	124	255.2	190	374.0
5	41.0	35	95.0	65	149.0	95	203.0	125	257.0	200	392.0
6	42.8	36	96.8	66	150.8	96	204.8	126	258.8		
7	44.6	37	98.6	67	152.6	97	206.6	127	260.6		
8	46.4	38	100.4	68	154.4	98	208.4	128	262.4		
9	48.2	39	102.2	69	156.2	99	210.2	129	264.2		
10	50.0	40	104.0	70	158.0	100	212.0	130	266.0		

### WEIGHT (FROM KILOGRAM TO POUND)

kg	lb	kg	lb	kg	lb	kg	lb
1	2.2	130	286.6	600	1322.8	2500	5511.5
5	11.0	140	308.6	650	1433.0	2600	5732.0
10	22.0	150	330.7	700	1543.2	2700	5952.4
15	33.1	160	352.7	750	1653.5	2800	6173.0
20	44.1	170	374.8	800	1763.7	2900	6393.3
25	55.1	180	396.8	850	1873.9	3000	6613.8
30	66.1	190	418.9	900	1984.1	3500	7716.1
35	77.2	200	440.9	950	2094.4	4000	8818.4
40	88.2	210	463.0	1000	2204.6	4500	9920.7
45	99.2	220	485.0	1100	2425.1	5000	11023.0
50	110.2	230	507.1	1200	2645.5	5500	12125.3
55	121.3	240	529.1	1300	2866.0	6000	13227.6
60	132.3	250	551.2	1400	3086.4	6500	14329.9
65	143.3	260	573.2	1500	3306.9	7000	15432.2
70	154.3	270	595.2	1600	3527.4	7500	16534.5
75	165.3	280	617.3	1700	3747.8	8000	17636.8
80	176.4	290	639.3	1800	3968.3	8500	18739.1
85	187.4	300	661.4	1900	4188.7	9000	19841.4
90	198.4	350	771.6	2000	4409.2	9500	20943.7
95	209.4	400	881.8	2100	4629.7	10000	22046.0
100	220.5	450	992.1	2200	4850.1		
110	242.5	500	1102.3	2300	5070.6		
120	264.6	550	1212.5	2400	5291.0		

kg/cm <sup>2</sup>	lb/in <sup>2</sup>	kPa	bar	kg/cm <sup>2</sup>	lb/in <sup>2</sup>	kPa	bar
5.1	72	490	4.9	7.6	108	740	7.4
5.2	74	500	5.0	7.7	109	750	7.5
5.3	75	510	5.1	7.8	111	760	7.6
5.4	77	520	5.2	7.9	112	770	7.7
5.5	78	530	5.3	8.0	114	780	7.8
5.6	80	540	5.4	8.1	115	790	7.9
5.7	81	550	5.5	8.2	116	800	8.0
5.8	82	560	5.6	8.3	118	810	8.1
5.9	84	570	5.7	8.4	119	820	8.2
6.0	85	580	5.8	8.5	121	830	8.3
6.1	87	590	5.9	8.6	122	840	8.4
6.2	88	600	6.0	8.7	124	850	8.5
6.3	89	610	6.1	8.8	125	860	8.6
6.4	91	620	6.2	8.9	126	870	8.7
6.5	92	630	6.3	9.0	128	880	8.8
6.6	94	640	6.4	9.1	129	890	8.9
6.7	95	650	6.5	9.2	131	900	9.0
6.8	97	660	6.6	9.3	132	910	9.1
6.9	98	670	6.7	9.4	133	920	9.2
7.0	99	680	6.8	9.5	135	930	9.3
7.1	101	690	6.9	9.6	136	940	9.4
7.2	102	700	7.0	9.7	138	950	9.5
7.3	104	710	7.1	9.8	139	960	9.6
7.4	105	720	7.2	9.9	141	970	9.7
7.5	107	730	7.3	10.0	142	980	9.8

### PRESSURE

	kg/cm <sup>2</sup>	kPa	bar	psi
kg/cm <sup>2</sup>	1	98.07	0.9807	14.22
kPa	0.0102	1	0.01	0.1450
bar	1.020	100	1	14.503
psi	0.0703	6.895	0.06895	1

## 2. Specific Weight (Approximately)

### LENGTH

	m.meter	c.meter	meter	k.meter	inch	foot	yard	mile
m.meter	1	0.10000	0.00100	-	0.03937	0.00328	0.00109	-
c.meter	10.0000	1	0.01000	0.00001	0.39371	0.03281	0.01094	-
meter	1000.00	100.00	1	0.00100	39.3707	3.28089	1.09363	0.00062
k.meter	-	100000	1000.00	1	39370.7	3280.89	1093.63	0.62138
inch	25.3995	2.53995	0.02540	0.00003	1	0.08333	0.02778	0.00002
foot	304.794	30.4794	0.30479	0.00030	12.0000	1	0.33333	0.00019
yard	914.383	91.4383	0.91438	0.00091	36.0000	3.00000	1	0.00057
mile	-	160931	1609.31	1.60931	63360.0	5280.00	1760.00	1

### AREA

	meter <sup>2</sup>	are	hectare	k.meter <sup>2</sup>	foot <sup>2</sup>	yard <sup>2</sup>	acre	mile <sup>2</sup>
meter <sup>2</sup>	1	0.010000	0.000100	0.000001	10.7639	1.19600	0.000247	0.000000
are	100.000	1	0.010000	0.000100	1076.39	119.600	0.024710	0.000039
hectare	10000.0	100.000	1	0.010000	107639.0	11960.0	2.47105	0.003861
k.meter <sup>2</sup>	-	10000.0	100.000	1	-	-	247.105	0.386098
foot <sup>2</sup>	0.092903	0.000929	0.000009	0.000000	1	0.111111	0.000023	0.000000
yard <sup>2</sup>	0.836130	0.008361	0.000084	0.000000	9.00000	1	0.000207	0.000000
acre	4046.87	40.4687	0.404687	0.004047	43560.2	4840.00	1	0.001562
mile <sup>2</sup>	-	25900.2	259.002	2.59002	-	-	640.000	1

### WEIGHT

	gram	k.gram	ton	s.ton	l.ton	ounce	pound
gram	1	0.00100	-	-	-	0.03527	0.00220
k.gram	1000.00	1	0.00100	0.00110	0.00098	35.2739	2.20462
ton	-	1000.00	1	1.10230	0.98421	35273.9	2204.62
s.ton	907185	907.185	0.90719	1	0.89286	32000.0	2000.00
l.ton	-	1016.04	1.01604	1.12000	1	35840.0	2240.00
ounce	28.3495	0.02835	0.00003	0.00003	0.00003	1	0.06250
pound	453.592	0.45359	0.00045	0.00050	0.00045	16.0000	1

### CAPACITY

	cub.meter	liter	cub.inch	cub.foot	cub.yard	U.S.gallon	U.K.gallon
cub.meter	1	1000.00	61027.1	35.3147	1.30802	264.186	220.216
liter	0.00100	1	61.0271	0.03532	0.00131	0.26419	0.22022
cub.inch	0.00002	0.01639	1	0.00058	0.00002	0.00433	0.00361
cub.foot	0.02832	28.3167	1728.00	1	0.03704	7.48051	6.23549
cub.yard	0.76455	764.554	46656.0	27.0000	1	201.974	168.358
U.S.gallon	0.00379	3.78543	231.000	0.13368	0.00495	1	0.83270
U.K.gallon	0.00455	4.54596	277.413	0.16037	0.00594	1.20091	1

### FORCE

$$1 \text{ kgf} = 9.81 \text{ N}$$

### POWER (horse power)

$$1 \text{ hp} = 550 \text{ ft} \cdot \text{lb}/\text{s} = 745.7 \text{ W}$$

$$1 \text{ PS} = 75 \text{ m} \cdot \text{kg}/\text{s} = 735.5 \text{ W}$$

Material	Pounds/cu.yd	Metric Tons/m <sup>3</sup>	Material	Pounds/cu.yd	Metric Tons/m <sup>3</sup>
Anthracite .....	2000	1.2	Iron ore: Magnetite .....	4700	2.8
Basalt .....	3400	2.0	Limestone .....	2500	1.5
Bauxite .....	2400	1.4	Pyrites .....	4400	2.6
Clay: dry .....	2500	1.5	Over-Burden		
wet .....	2900	1.7	75%rock-25%earth .....	3400	2.0
Coal .....	1200	0.7	50%rock-50%earth .....	2900	1.7
Copper ore .....	2700	1.6	25%rock-75%earth .....	2700	1.6
Crushed gypsum .....	2700	1.6	Sand: dry .....	2400	1.4
Earth: dry .....	2500	1.5	wet .....	3000	1.8
wet .....	2700	1.6	Sandstone .....	2500	1.5
Granite .....	2900	1.7	Snow: dry .....	170	0.1
Gravel: dry .....	2900	1.7	wet .....	840	0.5
wet .....	3400	2.0	Uranium .....	2700	1.6

Note: Weight of materials varies with moisture content, grain size, degree of compaction, etc. Test must be made to know exact weight.



# ***DATA BOOK***