

DATA BOOK

2025

OFF-THE-ROAD TIRES



GENERAL INFORMATION

MINING, CONSTRUCTION, UNDERGROUND

MOBILE CRANE, LOGGING

INDUSTRIAL

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

3. Safety Warning

In this book, enriched descriptions about safety specify our policy more clearly.
If proper safety practices are not observed serious injury or death may occur.

Definition of safety warnings in this booklet

⚠DANGER indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.
This warning is limited to the most extreme situations.

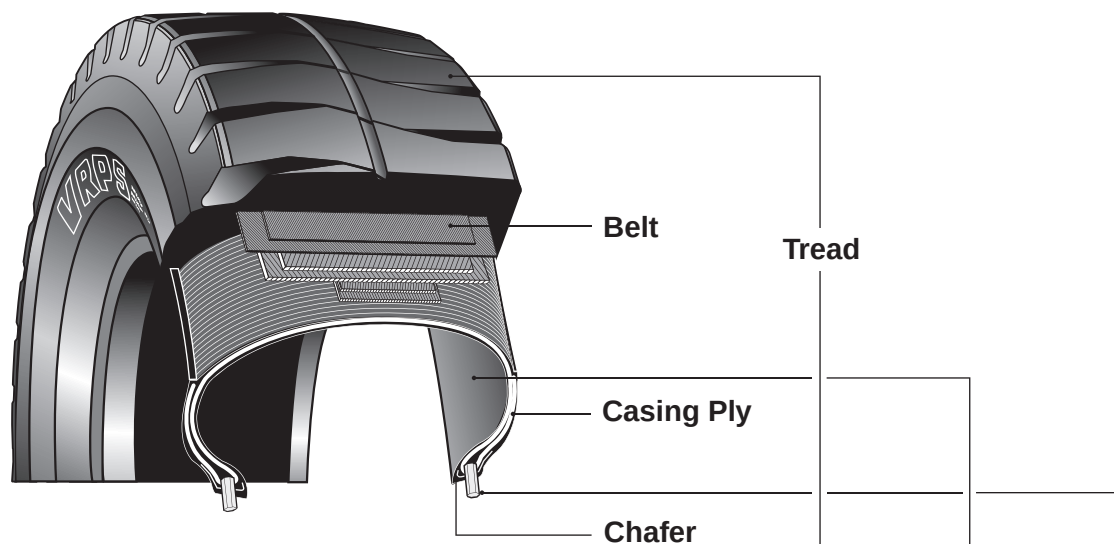
⚠WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

⚠CAUTION indicates a potentially hazardous situation which, if not avoided, could result in injury.
It may also be used to alert against unsafe practices.

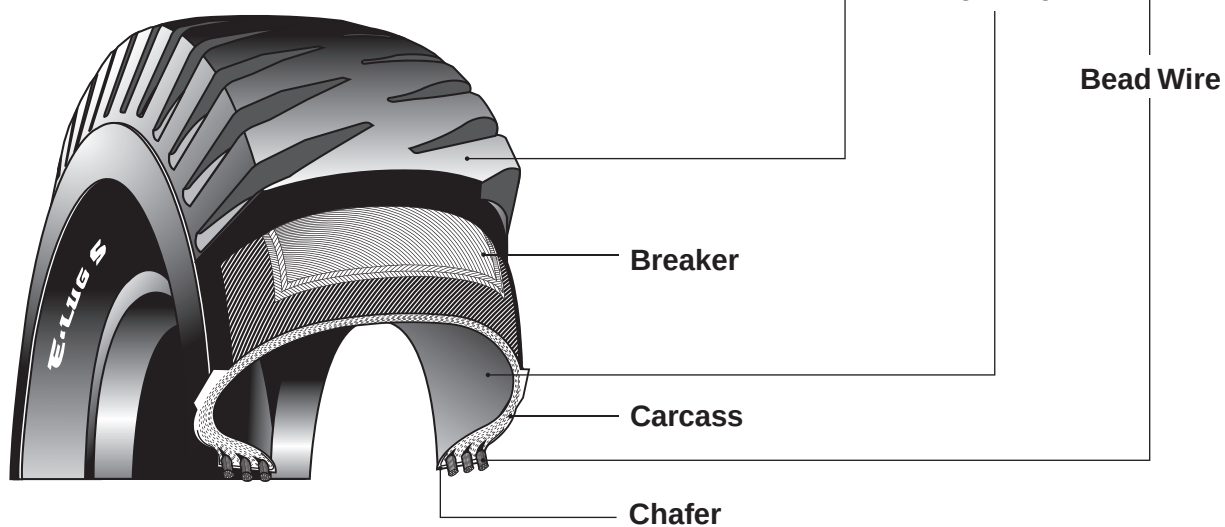
GENERAL INFORMATION

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 ; 21.00-35, 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)

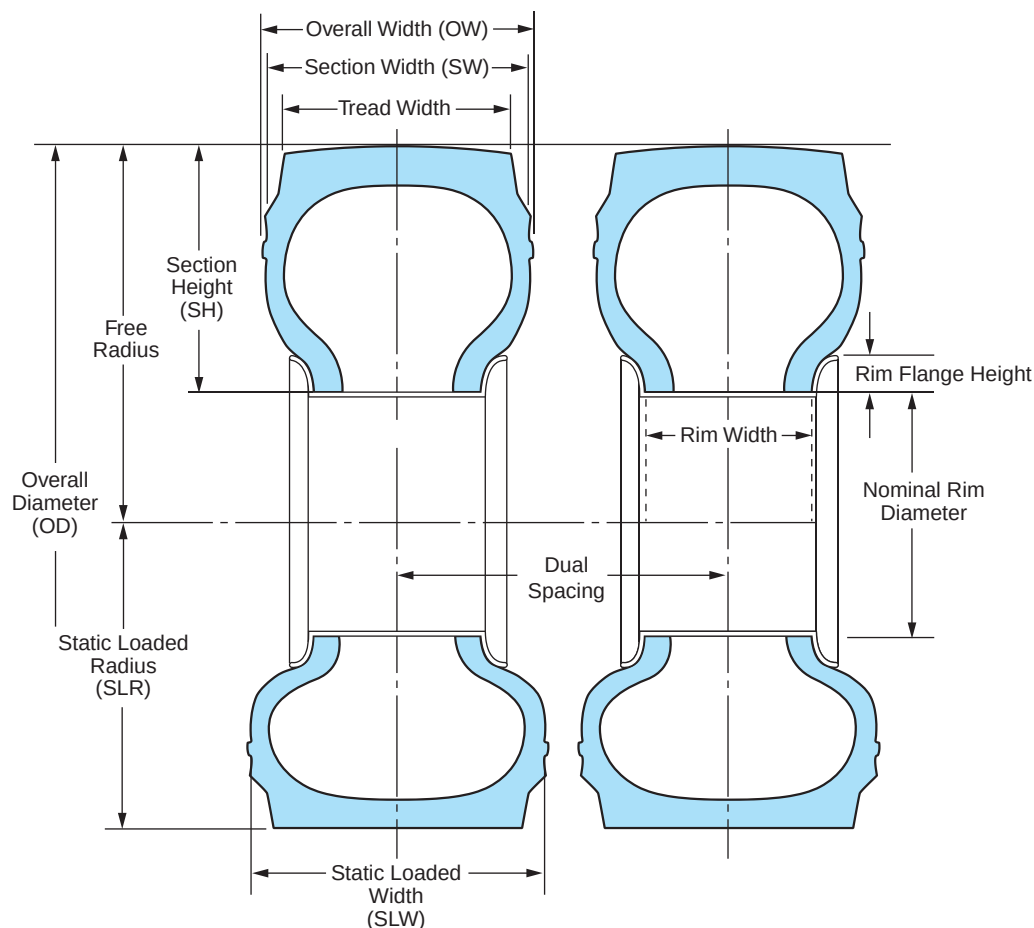
“Section Width” is the width of a new tire, including 24-hour inflation growth and including normal sidewalls, but not including protective side ribs, bars, or decorations.

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	 Rigid dump trucks  Articulated dump trucks  Coal haulers  Scrapers  Off road trucks	Heat-resistance, Cut-resistance, Wear-resistance Shock burst-resistance
Grader	Grading, Leveling	 Graders	Traction, Maneuverability, (directional stability)
Loader and dozer	Loading and dozing	 Loaders, Bulldozers	Cut-resistance, Wear-resistance Stability
Compactor	Compacting	 Tire-rollers	Oil-resistance, Cut-resistance, Wear-resistance
Underground	Underground	 LHDs  Drilling Jumbo  Underground Trucks	Cut-resistance, Wear-resistance
Mobile crane (High-speed)	High-speed Travelling	 All-Terrain Cranes	Heat-resistance, Wear-resistance, Traction
Mining and Logging	Log-skidding	 Log-skidders	Traction, Flotation, Cut-resistance
Industrial	Handling & Towing	 Handling & Towing Equipments	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

E= Earthmover (Haulage Service)

E-2	Traction	VUT VKT VSB VFT VHS VSW	WL RL VL2
E-3	Rock	VLV VMT VTS VRL VRF	
E-4	Rock Deep	L317 VLTS VSNT VMTS VMTP	
		VMTD VZTS VZTP VZTB VELS	
		VRLS VREP VRDP VRPS	
		VREV VRWP VRDU VRQP VREM	
E-7	Flotation	VSJ	

G=Grader

G-1	Rib		RG
G-2	Traction	VUT VSW	GL FG
G-3	Rock	VJT	RL
G-4	Rock Deep	VMTS	

L=Loader & Dozer (Slow Speed Service)

L-2	Traction Regular	VUT VSW	GL FG
L-3	Rock Regular	VLV VJT VTS	RL VL2
L-4	Rock Deep	VLTS VSNT VSNL	RLS
L-5	Rock Extra-Deep	VSDT VSDL VSDR	DL
L-5S	Smooth Extra-Deep	VSMS VSMS2	STMS

C=Compactor Service

C-1	Smooth		RR
C-2	Grooved		AL2

ML=Mining and Logging Service

ML-2	Traction	VSJ	
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Mobile Crane Service (High-Speed)

Mobile Crane		VGT VHB VHS VHS2 VSW	
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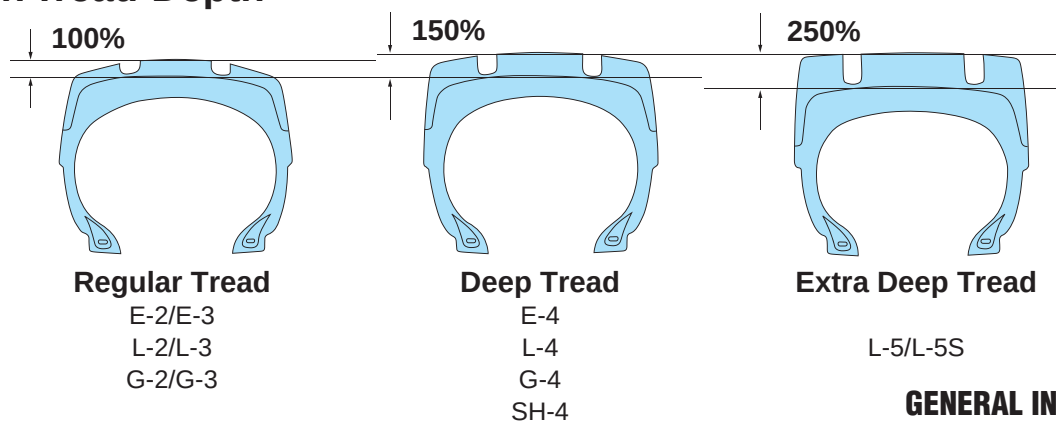
Industrial Service

Industrial		VHB VCH VCHD VCHR VCHP VCHS	RL RLS ELS2 STMS YS2
		VELS VRLS VSDL VSMS VPCS VPCT	

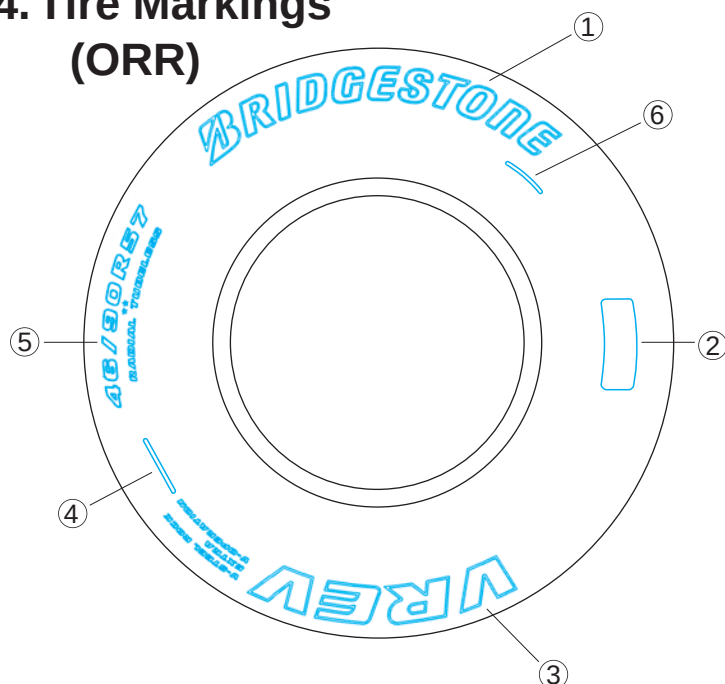
Underground Service

LHD-4		VSNL VSNT	DL
LHD-5		VSDR VSDL VMDL VSDT	
LHD-5S		VSMS VSMS2 VMMS	
SH-4		VMNT	

Design Tread-Depth



4. Tire Markings (ORR)



- ① Brand Name
- ② Bridgestone's Specifications Code
- ③ Pattern Name
- ④ Serial Number
- ⑤ Tire Size, Star Rating, Tubeless or Tube Type
- ⑥ DOT Code
DOT code is necessary for USA public road.

4.1 Type of Tire Size Designation

Regular

27.00 R 49 ☆ ☆

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

Wide Base

33.25 R 35 ☆ ☆

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

Super Wide Base

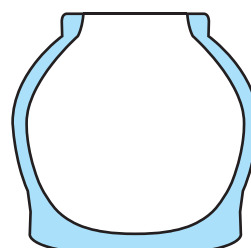
40 / 65 - 39 30PR

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

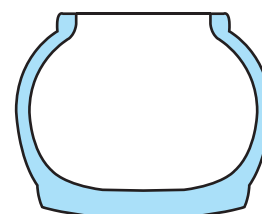
170 E 385 / 95 R 24

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

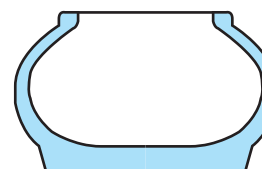
*Tire Aspect Ratio



$$\frac{SH}{SW} = 0.95^*$$



$$\frac{SH}{SW} = 0.80^*$$



$$\frac{SH}{SW} = 0.65^*$$

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.



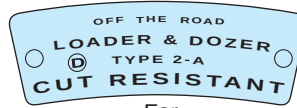
For Earthmover service



For Industrial service



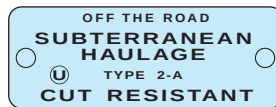
For Subterranean LHD



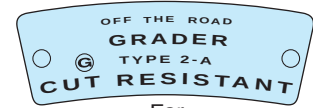
For Loader and Dozer service



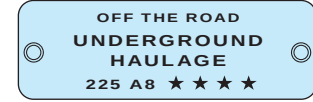
For Mobile Crane Service



For Subterranean Haulage



For Grader service



For Underground Truck Service

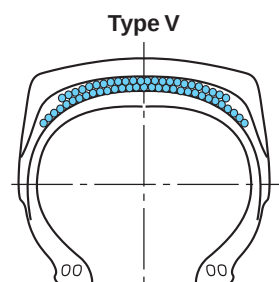
Tire Structures Classified by Type of Service and Bridgestone's Designations

Type of Service	Classification	Tread Compound Characteristics		Structure	Specification	
Earthmover	E	2	LS	A	E2ALS	Ultra Cut-resistant
		2		A	E2A	Cut-resistant
		1		A	E1A	Standard
		3		A	E3A	Heat-resistant
Grader	G	2		A	G2A	Cut-resistant
		1		A	G1A	Standard
Loader & Dozer	D	2		A	D2A	Cut-resistant
		2		V*	D2V	Special Cut-resistant (Type"V")
		2		Z*	D2Z	Special Cut-resistant (Type"Z")
Mining and Logging	S	0		A	S0A	Standard
Subterranean LHD	L	2		A	L2A	Cut-resistant
Subterranean Haulage	U	2		A	U2A	Cut-resistant
Industrial	ID	-			IDU	In compliance with Earthmover Standard (Industrial Use)
		-			IDR	In compliance with Industrial standard

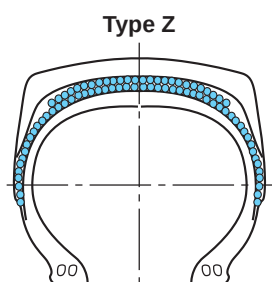
NOTES: *Bias Tire Only

DE2	See 4.7 Dual Specification Codes
DG2	
EG2	
DUH	

Structure



Steel breaker construction



Side steel breaker construction

A : Standard (Radial and Bias)

V : 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 underground trucks in underground mines, and also on log loaders.

Z : 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	★3	up to 24
	14.00R24	★3	up to 32
	14.00R25	★3	up to 32
	16.00R25	★2	up to 36
	18.00R25	★1	up to 24
		★2	up to 36
	18.00R33	★2	up to 40
	21.00R35	★2	up to 44
	40.00R57	★2	up to 74
	17.5R25	★1	up to 16
	20.5R25	★1	up to 24
		★2	up to 28
	23.5R25	★1	up to 24
		★2	up to 32
	26.5R25	★2	up to 32
	29.5R25	★2	up to 34
	29.5R29	★2	up to 40
	33.25R29	★2	up to 44
	33.25R35	★2	up to 44
	37.25R35	★2	up to 48
	37.5R39	★2	up to 52
	40.5/75R39	★2	up to 54

Service	Tire Size	Star Rating	Corresponding Ply Rating
Grader	14.00R24	★1	up to 16
	16.00R24	★1	up to 16
	17.5R25	★1	up to 16
Loader	15.5R25	★1	up to 16
	17.5R25	★1	up to 16
	20.5R25	★1	up to 24
		★2	up to 28
	23.5R25	★1	up to 24
		★2	up to 32
	26.5R25	★1	up to 24
		★2	up to 36
	29.5R25	★1	up to 28
		★2	up to 34
	29.5R29	★1	up to 34
	35/65R33	★1	up to 36
	45/65R45	★1	up to 50
	50/65R51	★2	up to 54

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.

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 MS* ★1 D2A ★2 E2A
	Bias	26.5 – 25 20 VL2 T DE2 DE2 D2A E2A
Loader & Dozer Service + Grader Service	Radial/Bias	17.5 – 25 12 FG T DG2 DG2 D2A G2A
Earthmover Service + Grader Service	Radial	17.5R25 ★1 VKT T EG2 EG2 E2A G2A
Underground Trucks + Loader & Dozer Service	Radial	35/65R33 MT* VSNT T DUH MT* Underground Truck D2A

* 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)
MS	Loader	★(one star)	500kPa	15,000 kg (202)	10 km/h (A2)
	Earthmover	★★(two stars)	525kPa	11,500 kg (193)	50 km/h (B)

<35/65R33 as an example>

MT	Underground Trucks	★★★★(four stars)	800kPa	29,000 kg (225)	40 km/h (A8)
	Loader	★★(two stars)	650kPa	28,000 kg (224)	10 km/h (A2)

Description on Tire Sidewall



5. Ton-Kilometer-Per-Hour (TKPH)

5.1 Operating TKPH

Earth-moving, mining and logging tires have become increasingly important with the development of large construction vehicles. The primary task of these heavy-duty tires is to haul heavy loads faster, over longer distances. This heavy hauling inevitably causes heat built-up in the tires. As tires have limited resistance to heat, deterioration of the tire may occur at an early stage of operation if used beyond the rated TKPH.

Accordingly, it is necessary when selecting tires, to determine the amount of work which will keep the tire within a safe range to avoid over-heating when the vehicle is operated under given conditions. The amount of work done under the given conditions and within a safe range is shown as "Operating Ton-Kilometer-Per-Hour (Operating TKPH)" which can be determined by the following formula:

Formula for Calculation of Operating TKPH

$$\text{Operating TKPH} = \left(\frac{\text{Mean Tire-Load (MTL)}}{2} \right) \times \left(\text{Average Work Shift Speed (AWSS)} \right)$$

MTL
[metric tons]

$$= \frac{\text{Tire Load (Empty)} + \text{Tire Load (Loaded)}}{2}$$

AWSS
[km/hour]

$$= \frac{\text{Round Trip Distance[km]} \times \text{Number of Cycles per Shift}}{\text{Total Hours of Operation per Shift}}$$

*Calculation formula of "Operating TKPH" depends on tire manufactures.

5.2 Tire TKPH

Tire TKPH varies depending on the tire's design (size, tread pattern and the type of compound). A High TKPH tire generates less heat than that of lower TKPH tire. However, the lower TKPH tire will have greater cut and wear resistance than the higher TKPH one.

The TKPH method is applicable in the following situations.

- (1) One way distance: within 16 km (10 miles)
 - a. When haul length exceeds 16 km one way, consult a Bridgestone Representative.
 - b. If the round-trip distance is less than 5km (3miles), Tire TKPH figures can be increased by 12%.
- (2) Ambient temperature: 38°C (100°F)

For ambient temperatures other than 38°C (100°F), the Tire TKPH rating should be revised based on the following formula.

a. Radial Tire

$$\text{Revised TKPH rating} = [1 + \alpha \times (38^\circ\text{C} - \text{Max. Ambient Temperature } ^\circ\text{C})]^* \times \text{Tire TKPH}$$

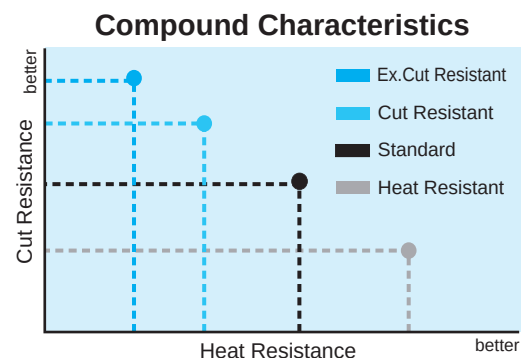
Below 27.00 (33.5) inches in Section Width: $\alpha = 0.010$
 Above 30.00 (37.25) inches in Section Width: $\alpha = 0.009$

b. Bias Tire

$$\text{Revised TKPH rating} = [1 + \alpha \times (38^\circ\text{C} - \text{Max. Ambient Temperature } ^\circ\text{C})]^* \times \text{Tire TKPH}$$

Below 27.00 (33.5) inches in Section Width: $\alpha = 0.006$
 Above 30.00 (37.25) inches in Section Width: $\alpha = 0.005$

*Revising coefficient: The value is shown in the following table.



Revising Coefficient

Ambient Temperature		Bias Tire		Radial Tire	
		Tire Section		Tire Section	
°C	°F	27.00 and below	30.00 and over	27.00 and below	30.00 and over
14	57	1.144	1.120	1.240	1.216
15	59	1.138	1.115	1.230	1.207
16	61	1.132	1.110	1.220	1.198
18	64	1.120	1.100	1.200	1.180
20	68	1.108	1.090	1.180	1.162
22	72	1.096	1.080	1.160	1.144
24	75	1.084	1.070	1.140	1.126
26	79	1.072	1.060	1.120	1.108
28	82	1.060	1.050	1.100	1.090
30	86	1.048	1.040	1.080	1.072
32	90	1.036	1.030	1.060	1.054
34	93	1.024	1.020	1.040	1.036
36	97	1.012	1.010	1.020	1.018
38	100	1.000	1.000	1.000	1.000
40	104	0.988	0.990	0.980	0.982
42	108	0.976	0.980	0.960	0.964
44	111	0.964	0.970	0.940	0.946
46	115	0.952	0.960	0.920	0.928
48	118	0.940	0.950	0.900	0.910
50	122	0.928	0.940	0.880	0.892

For all ambient temperatures below 14°C (57°F), the same TKPH value as calculated at 14°C (57°F) should be used.

(3) Maximum speed

Please consult a Bridgestone Representative if maximum speed exceeds 50km/h(30mph) under loaded condition for both Radial and Bias tires

(4) To obtain the TKPH(TMPH) for type 2A-LS, multiply type 2A rating by 0.8.

(5) The respective types of vehicles are subject to the following speed limitations.

Maximum Speed

Type of Vehicle	Maximum Speed
Dump & Scraper	50 km/h (30 mph)
Grader	40 km/h (25 mph)
Loader & Dozer	10 km/h (5 mph)

5.3 Proper TKPH

⚠WARNING The average operating TKPH, calculated after several samples, should not exceed the tire TKPH rating. Exceeding the tire TKPH may result in serious tire damage or failure.

REMARKS & SPECIAL OPERATIONS

1. Remarks

Both rules of 1.1 and 1.2 can't be applied at the same time.

1.1 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:

For Radial Tires

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

(except for underground vehicles) Please see P.89, 90

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	

About 63" tires, consult a Bridgestone representative.

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

The maximum excess loads will result in reduced tire performance.

For Bias Tires

	E2, E3, E4*	L**	
			L5/L5S***
Maximum Excess Load	15%	15%	0%
Maximum Excess Pressure	30%	30%	+100kPa
Maximum Pressure	825kPa	825kPa	
	<i>120psi</i>	<i>120psi</i>	

(except for underground vehicles) Please see P.89, 90

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
---------	----------	----------

**except following sizes on the list

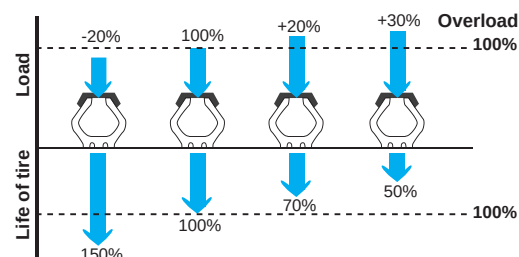
27x8.50-15	10-16.5	15.5/70-18	16.9-24
33x12.5-15	12-16.5	42x17-20	18.4-24
12.5/70-16	15.5/60-18	17.5/65-20	

***For L5/L5S tires 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	50/65-51
20.5-25	29.5-25	40/65-39	65/65-57
23.5-25	29.5-29	45/65-45	

The maximum excess loads will result in reduced tire performance.



1.2 The Variation in Load Carrying Capacity with Operating Speed

For Radial Tires

Maximum Speed (km/h)	G	L*
Static	-	+60%
Creep		+30%
5		+15%
10		0
15		-13%
20		-
25		-20%
30		-
35		
40	0	
45	-	
50	-9%	
55	-	
60	-18%	
65	-27%	

(except for underground vehicles) Please see P.18, 19

Reference speed for calculating load variance

* About the size of 55.5/80R57 and 60/80R57, consult a Bridgestone representative.

•Earthmover Size

For 65km/h(40mph) speed, tire load must be reduced 12% with no change in inflation pressure.

For Bias Tires

Maximum Speed (km/h)	G	L*
Static	-	+60%
Creep		+30%
5		+15%
10		0
15		-13%
20		-
25		-20%
30		-
35		
40	0	
45	-	
50	-9%	
55	-	
60	-18%	
65	-27%	

(except for underground vehicles) Please see P.18, 19

Reference speed for calculating load variance

•Earthmover Size

For 65km/h(40mph) speed, tire load must be reduced 15%(Narrow), 17%(widebase) with no change in inflation pressure.

*except following sizes on the list

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

- These tables don't secure to prevent the risk derived from heat buildup.
- Consult Bridgestone Representative for another speed set for Earthmover Size.

1.3 How to Select Tires

- CAUTION** (1) Use tires of a size (standard or optional) specified for each machine by the manufacturer.
- (2) Use tires of an appropriate star/ply rating, type, specification and tread pattern.
- (3) As a general rule, when two tires are to be fitted on the same axle, the same type, construction and brand of tire (either new or used) should be used.
- (4) Dual mounting of the same brand, pattern, MasterCore or not, of the tires are ideal. When tires of two different brands are both of the same type (bias or radial) and of the same diameter, they can be used together.
- (5) Dual mounting of tires of different section widths is not recommended, even if they meet minimum values of dual spacing, because of different deflection.
- (6) When dual mounting with MasterCore and Non-MasterCore, set according to the inflation pressure of Non-MasterCore

1.4 Conditions for Dual Mounting

The following table lists the allowance in outer diameters for dual mounting. Exceeding the figures listed (Table 1) may result in rapid tread wear and possible damage to the tire.

For the dual mounted tires shown in Fig. 1, if the outer diameter of tire No.1 is larger than that of No.2, the No.1 tire with a larger diameter will eventually be damaged, wear rapidly and unevenly from overloading, while the No.2 tire with a smaller diameter will rapidly wear out in the center.

Tires already mounted on vehicles can be checked by the following methods. Be sure that the tires to be checked are all inflated to their standard recommended inflation pressures.

Fig. 1 Dual Mounting

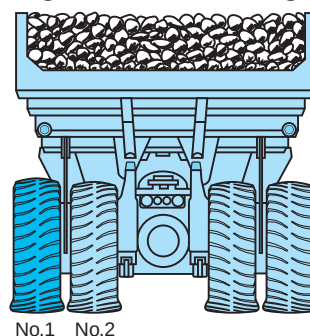


Table 1 Permissible Difference in Outer Diameters for the Dual Mounted Tires

Tire Section	Radial		Bias	
	Difference in Outer Diameters	Circumferential Difference	Difference in Outer Diameters	Circumferential Difference
less than 8.25	less than 6mm	less than 19mm	less than 8mm	less than 9mm
9.00–14.00	less than 8mm	less than 25mm	less than 13mm	less than 41mm
16.00–18.00	less than 15mm	less than 47mm	less than 20mm	less than 69mm
more than 21.00	less than 19mm	less than 60mm	less than 24mm	less than 75mm

- (1) By placing a right angled square across duals, the difference in outer diameter can be obtained. (Fig. 2-1) Or measure circumference.

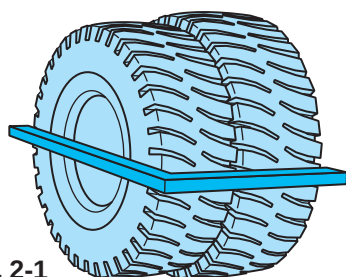


Fig. 2-1

- (2) By using a cord across both the right and left duals, the difference can be obtained. (Fig. 2-2)

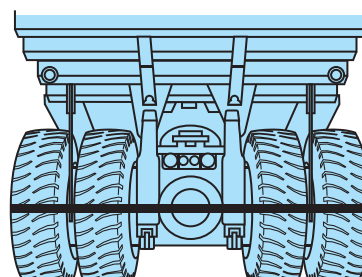


Fig. 2-2

- CAUTION** (3) Do not use regular tread (E3) and deep tread (E4) tires together for dual mounting.
- CAUTION** (4) Any object trapped between dual mounted tires represents a risk. Use of rock ejectors between dual mounted tires is recommended. To remove an object trapped between dual mounted tires, it is essential to deflate both tires prior to removing the wheels.

1.5 Tire Volume for Filling Nitrogen Gas

Tire Size	Tire Volume			
	Liter		U.S. Gal	
		For L5		For L5
14.5 R 15	-	89	-	24
12.00 R 20	137	123	36	32
16.00 R 20	300	-	79	-
335/80 R 20	130	-	34	-
405/70 R 20	197	-	52	-
365/80 R 20	159	-	42	-
12.00 R 24	162	145	43	38
13.00 R 24	201	-	53	-
14.00 R 24	264	213	70	56
16.00 R 24	359	-	95	-
14.00 R 25	259	-	68	-
15.5 R 25	225	213	59	56
16.00 R 25	353	-	93	-
17.5 R 25	295	261	78	69
18.00 R 25	507	457	134	121
20.5 R 25	448	398	118	105
21.00 R 25	751	-	198	-
23.5 R 25	631	560	167	148
550/65 R 25	360	-	95	-
650/65 R 25	541	-	143	-
750/65 R 25	750	-	198	-
26.5 R 25	833	739	220	195
29.5 R 25	1171	1039	309	274
775/65 R 29	900	-	238	-
875/65 R 29	1138	-	301	-
29.5 R 29	1260	1118	333	295
33.25 R 29	1586	-	419	-

Tire Size	Tire Volume			
	Liter		U.S. Gal	
		For L5		For L5
18.00 R 33	582	-	154	-
21.00 R 33	810	-	214	-
35/65 R 33	1463	1298	387	343
37.5 R 33	2444	-	646	-
21.00 R 35	841	-	222	-
24.00 R 35	1098	-	290	-
33.25 R 35	1780	-	470	-
37.25 R 35	2323	-	614	-
37.5 R 39	2627	-	694	-
40.5/70 R 39	2885	-	762	-
45/65 R 39	-	2613	-	690
45/65 R 45	-	3005	-	794
24.00 R 49	1375	-	363	-
27.00 R 49	1869	-	494	-
30.00 R 51	2514	-	664	-
33.00 R 51	3079	-	813	-
36.00 R 51	3855	-	1018	-
50/65 R 51	-	4027	-	1064
37.00 R 57	4481	-	1184	-
42/90 R 57	4799	-	1268	-
40.00 R 57	5477	-	1447	-
46/90 R 57	5487	-	1450	-
50/80 R 57	5955	-	1573	-
50/90 R 57	7800	-	2061	-
55.5/80 R 57	-	7216	-	1906
60/80 R 57	-	9059	-	2393
53/80 R 63	7305	-	1930	-
59/80 R 63	9793	-	2587	-

L5 tire has smaller tire volume than the others and the value listed specifically.

2. Special Operations

Please check your operation to make sure of the Tire Load Limit.

Vehicle Type	Type of Service / Operations		Reference No.
Front End Loader	Standard	Distance of picking up and relocating material less than 76m (one way)	-
	Load-and-Carry	Distance of picking up and relocating material more than 76m (one way)	2.1.1
Underground Vehicle	-	Underground Load Haul Dump Service	2.1.2
	-	Underground Truck Service	2.1.3
Earthmover	Standard		-
	Drive-Away	Vehicle is driven over the highway for delivery, or moved by an operator to a new job site	2.2.1
Loader / Dozer	Drive-Away	Vehicle is driven over the highway for delivery, or moved by an operator to a new job site	2.2.2

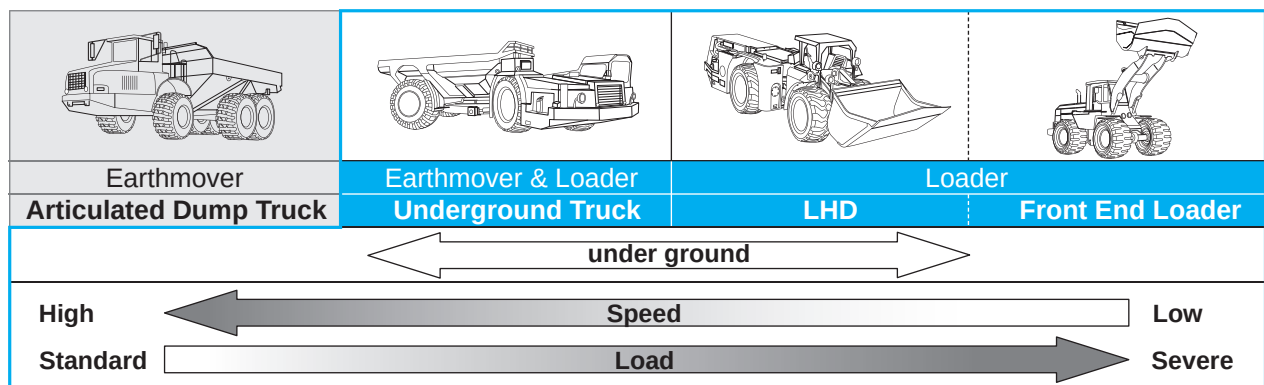
2.1 For Load-and-Carry Operations

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 (5 mph)”. 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 as **Load-and-Carry** operations. Transportation usually occurs at low speeds, up to 25km/h (15 mph), 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 limits. Please consult a Bridgestone representative for more information.

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





2.1.1 For Front End Loader Service

For Radial Tires

Tread Class	Inflation Pressure				Load Capacity* 10km/h (5mph)	Maximum Cycle Distance (m)	Allowable Average Work-shift Speed (km/h)
	Conventional size (95 series)		Wide base size (80, 65 series)				
	★1	★2	★1	★2			
L2, L3	Standard Inflation Pressure		Standard Inflation Pressure**		100% of STD. load	1800	16
L4							14
L5						1500 (VSDT)	10
						1200 (VSDL, VSDR)	6
L5S						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".

** On front tires for front end loaders, it is permissible to increase inflation pressure up to 100kPa (15psi) above that shown in the load - inflation pressure table for loader and dozer service "10km/h (5mph) service" with no increase in load.

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		1200	10	
L4				500	3	
L5			85% of STD. load	300		
L5S						

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

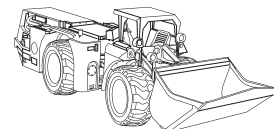
Please refer to the load - inflation pressure table for loader and dozer service "10km/h (5mph) service".

** Not permissible

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

2.1.2 For Load Haul Dump Service

Since a load haul dump (LHD) unit has a similar structure and operational characteristics as load and carry service on a front end loader, the following operating parameters are recommended.



For Radial Tires

Tread Class	Inflation Pressure		Load Capacity* 10km/h (5mph)	Maximum Cycle Distance (m)	Allowable Average Work-shift Speed (km/h)
	Conventional size (95 series)	Wide base size (80, 65 series)			
	★2 D2A / ★2 L2A				
L2, L3	**				
L4	Standard Inflation Pressure		100% of STD. load	1800	14
L5 / LHD5				1500 (VSDT)	10
				1200 (VSDR,VSDL,VMDL)	6
L5S / LHD5S				1200	5

*See note in Table 2.1.1.

**Not permissible

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	**				
L4	Standard inflation pressure + 100kpa (15psi)	90% of STD. load	**	500	3
L5			85% of STD. load	300	
L5S					

*See note in Table 2.1.1.

**Not permissible

The inflation pressure must meet 1.1 for maximum excess load.

2.1.3 For Underground Truck Service

Underground truck service is defined as small and low vehicle height dump truck used in underground mines. However, the application is considered to be similar to load and carry operation which has relatively slower speed and shorter distance with more load than normal dump truck use.

Consequently, the severity to the tire is estimated using the load and carry concept.

Bridgestone defines the recommendation in this section.



For Radial Tires

Tread Class & Pattern		Spec	Inflation Pressure	Load Capacity*	Speed	
					Maximum Speed (km/h)	Allowable Average Work-shift Speed (km/h)
L4/E4	VSNT	MT DUH	700 kpa	See note in P.47	25	10
			800 kpa		40	10
L4	VSNT	★2 D2A	Standard Inflation Pressure	100% of STD. load	25	14
L5	VSDT					10
	VSDL					6
L5S	VSMS					5
	VSMS2					
L5	VMDL	★2 L2A	Standard Inflation Pressure	100% of STD. load	25	6
L5S	VMMS					5
E4	VELS	★2 E2A	Standard Inflation Pressure	115% of STD. load	30	14
	VMTP					
	VRLS					

*See note in 2.1.1.

For over Maximum Speed, consult a Bridgestone Representative.

For Bias Tires

Not recommendable.

2.2 Drive-Away Operations

2.2.1 For Earthmover

⚠CAUTION Special precautions must be observed to protect tires when the vehicle is driven over the highway for delivery, or relocated to another job site. If the following precautions are not observed, it may cause excessive tire heat built up and may end up in a premature tire damage.

Whenever the vehicle is driven or towed on a drive-away trip, following recommendation should be applied.

(1) Load : Vehicle must be empty during transportation.

(2) Inflation pressure :

- Inflation pressure is to be checked and adjusted to the cold inflation pressure before starting the trip
- Inflation pressure is to be checked periodically during the trip (i.e. every 2 hours).

⚠WARNING • If the inflation pressure increases by 20% or more than the original inflation pressure, it indicates over heating. The vehicle should be stopped until the inflation pressure decreases by cooling the tire

- Inflation pressure should not be adjusted by deflating the tire

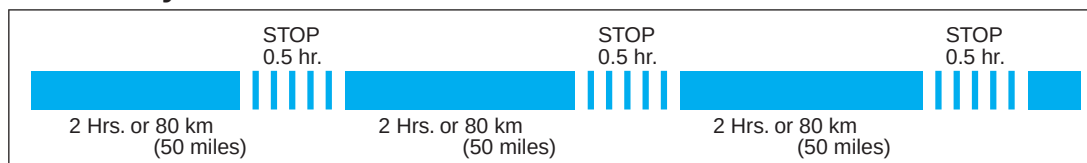
(3) Travel speed : Tread class E-3 tire

Maximum Speed (Drive-Away)

		Maximum Speed	
Radial / Bias	Regular	50 km/h	30 mph
	Wide Base	32 km/h	20 mph

(4)Cooling period : after an 80km (50miles) trip or a consecutive 2 hour trip, whichever comes first, stop for 30 minutes to cool the tire.

Drive-Away



(5)Tread class E-4 tire

- Consult a Bridgestone Representative for travel speed and cooling period.

2.2.2 For Loader & Dozer

During or after the operation, please wait for the following hours prior to start Drive-Away.

Size & Pattern	Load per tire [ton]		Maximum Travel Distance (One way)				
			5 km or 3.1 Mil	10 km or 6.2 Mil	20 km or 12.4 Mil	50 km or 31 Mil	60 km or 37 Mil
35/65R33 VSDL	16.6	Rest time prior to traveling (Hour)	2	4	5	7	9
		Maximum speed on traveling	10 km/h or 6.2 MPH				
45/65R45 VSDL	30.3	Rest time prior to traveling (Hour)	2	3	5	10	11
		Maximum speed on traveling	10 km/h or 6.2 MPH				
50/65R51 VSDL	40.3	Rest time prior to traveling (Hour)	3	5	9	20	23
		Maximum speed on traveling	20 km/h or 12.4 MPH			10 km/h or 6.2 MPH	
65/65-57 DL	64.8	Rest time prior to traveling (Hour)	3	6.5	10	* Please consult a Bridgestone representative.	
		Maximum speed on traveling	20 km/h or 12.4 MPH		10 km/h or 6.2 MPH		

*Please consult a Bridgestone representative.

Remarks;

1. Time for cooling temperature of the tire (Parked up the loader) should be applied prior to start to travel on the road.
2. Ambient temperature of 38°C or 100°F is assumed.
3. Maximum load on tire should be less than the Load per tire in the above table.
4. Air pressure for "Drive-Away" should be the same as our recommended figures, and need to confirm whether it would not be higher figures that we experienced prior to travel.
5. We recommend that it would be best way for Giant loaders to use tow hauler for long way traveling. The drive away distance should be shorter than 60km (37 miles) within 20 km/h as the maximum speed to minimize the risk of tire heat damage.
6. If you have a plan of Drive-Away, please consult a Bridgestone representative.

60/80R57 and 55.5/80R57 VSDL Drive-Away Condition

Maximum Speed		EMPTY Travel Time Allowed at Maximum Speed (minutes)	Total Distance Traveled	
(mph)	(km/h)		(miles)	(km)
5	8	Unlimited	Unlimited	Unlimited
8	13	120	16	26
9.3	15	48	8	13
10.6	17	42	8	13
11.8	19	38	8	13
13	21	34	8	13

Remarks;

1. If the total distance is over 26km, the machine is recommended to slow down to 8km/h after 120 minutes of 13 km/h of Drive-Away.
2. During Drive-Away, monitoring heat level with TPMS is recommended. Critical alarm temperature setting needs to be based on heat study result. If not available, 70°C is recommended.



Mining, Construction



Underground Mining

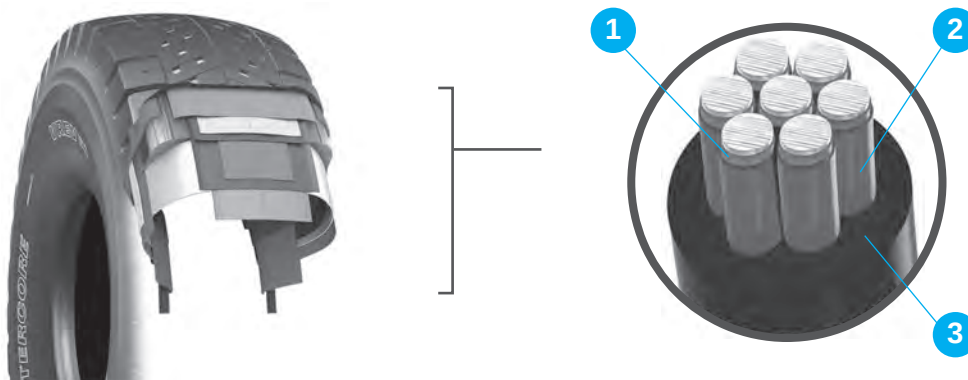


BRIDGESTONE **MASTERCORE**

1. Bridgestone MASTERCORE

MASTERCORE tires are engineered for ultra-high durability with performance that can be customized to various mine sites and operations. These tires can be customized to meet the needs of any site so you can run your mines more efficiently, with greater productivity.

With MASTERCORE 63inch and 57inch tires, users can customize the usage: Up to 5% more durability, 10% faster speeds, or 15% greater payloads. *1 With MASTERCORE 51inch and 49inch tires, users can customize the usage: Up to 5% more durability, 7% faster speeds, or 10% greater payloads. MASTERCORE tire's flexibility by new compounds and a revolutionary steel cord with new anti-rust and adhesion coatings.



1. Optimized Bonding Agent

Proprietary process applies bonding agent to the steel cord for improved rubber coverage & adhesion.

2. Anti-rust Steel Cord

Improved resistance to rust and damaged belts from cuts and moisture exposure versus conventional tires.

3. New Rubber Compound

Significant improvement in crack propagation resulting in improved belt & casing life.

2. Available MASTERCORE products

(Load Capacity comparison: MASTERCORE vs Conventional)

Size	Pattern BRIDGESTONE MASTERCORE	Recommended Rim / Flange	Tire	550 kPa (80 psi)	575 kPa (83 psi)	600 kPa (87 psi)	625 kPa (91 psi)	650 kPa (94 psi)	675 kPa (97 psi)	700 kPa (102 psi)
59/80R63	VRF/VRPS/ VREV	44.00/5.0	Conventional	85,000	87,500	90,000	92,500	95,000	97,500	100,000
			MasterCore	97,500	100,000	103,000	106,000	109,000	112,000	115,000
		41.00/5.0	Conventional	82,000	84,000	86,000	89,000	91,000	94,000	96,000
			MasterCore	94,000	96,000	99,000	102,000	105,000	108,000	110,000
53/80R63	VREV/VZTB	36.00/5.0	Conventional	69,000	71,000	75,000	77,500	80,000	80,000	82,500
			MasterCore	80,000	82,500	85,000	87,500	90,000	92,500	95,000
50/80R57	VREV/VREM	32.00/6.0 (34.00/5.0) (34.00/6.0)	Conventional	61,500	63,000	65,000	67,000	69,000	71,000	73,000
			MasterCore	71,000	73,000	75,000	77,500	80,000	82,500	85,000
		29.00/6.0	Conventional	54,500	56,000	58,000	60,000	61,500	63,000	65,000
			MasterCore	63,000	65,000	67,000	69,000	71,000	73,000	75,000
46/90R57	VRWP VZTB	29.00/6.0 (32.00/6.0)	Conventional	53,000	54,500	56,000	58,000	60,000	61,500	63,000
			MasterCore	60,000	63,000	65,000	67,000	69,000	71,000	73,000
40.00R57	VRWP	29.00/6.0	Conventional	50,000	51,500	53,000	54,500	56,000	58,000	60,000
			MasterCore	58,000	60,000	61,500	63,000	65,000	67,000	69,000
3300R51	VREV	24.00/5.0	Conventional	32,500	33,500	34,500	35,500	36,500	37,500	38,750
			MasterCore	35,500	36,500	37,500	38,750	40,000	41,250	42,500
2700R49	VRDU/VMTD	19.50/4.0	Conventional	22,400	23,000	23,600	25,000	25,750	26,500	27,250
			MasterCore	25,000	25,750	26,500	27,250	28,000	29,000	30,000

Please make sure you are running the appropriate Tire Load Limit, as these vary based on your operation. Contact your Bridgestone representative for additional support.

*1 Comparison based on conventional Bridgestone VRPS vs Bridgestone MASTERCORE VRPS and conventional Bridgestone VRF vs Bridgestone MASTERCORE VRF when same size apply from field data and internal testing. Tire wear may increase when maximum speed or payload capacity is increased. Results may vary.

Subterranean Products for Underground Mines

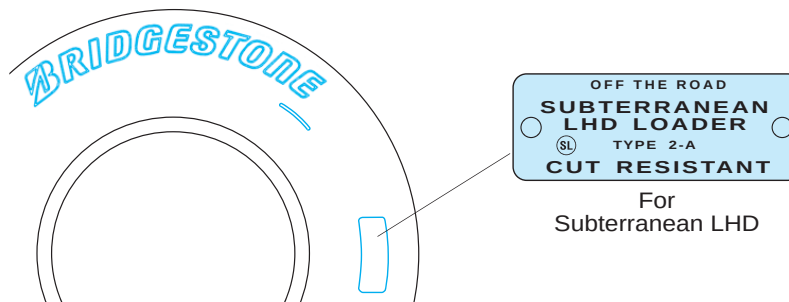


1. Subterranean LHD Standard

Registered to JATMA-Annex3 and TRA-EDI, the Subterranean LHD Standard standardizes higher load capacity while maintaining lower air pressure.

The standard table of Tire load limits at various cold inflation pressures is shown under 4.

Tire Markings (ORR)



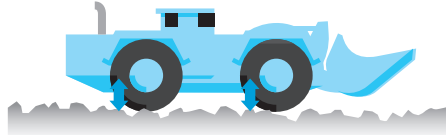
2. Subterranean LHD (L2A) products

Subterranean LHD (L2A) products have +15% load capacity compared to D2A products at the same inflation pressure (94psi/650kPa). This performance is made possible by bead construction enhancement and belt construction optimization. In addition, VSMS2/VMMS has an upgraded sidewall structure which ensures maximum sidewall cut resistance.

• Benefits of lower inflation pressure

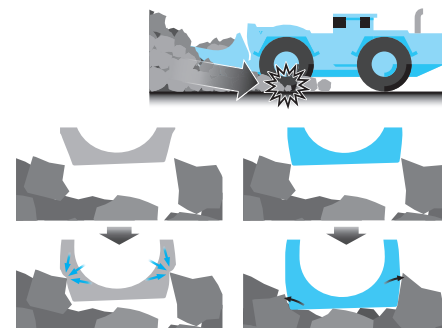


1. Reduced cut risk due to easy enveloping rocks and stones



2. Improved riding comfort and less vibration by absorbing shocks on rough roads

• Enhanced Sidewall cut resistance (VSMS2/VMMS only)



3. Available Subterranean LHD Products

(Load capacity comparison : Subterranean LHD vs Conventional)

Tire Size	Pattern	TRA Code or Application	Spec	Star rating	★1						★2	
					Inflation Pressure	73 psi	76 psi	80 psi	83 psi	87 psi	91 psi	94 psi
						500 kPa	525 kPa	550 kPa	575 kPa	600 kPa	625 kPa	650 kPa
26.5R25	VSDL	L5	D2A	Conventional		15,000kg	15,500kg	16,000kg	16,500kg	17,000kg	18,000kg	18,500kg
	VSMS2	L5S										
	VMDL	LHD5	L2A	Subterranean LHD		17,500kg	18,500kg	19,000kg	19,500kg	20,000kg	20,600kg	21,200kg
	VSMS2/VMMS	LHD5S										
29.5R29	VSDL	L5	D2A	Conventional		19,500kg	20,000kg	20,600kg	21,200kg	22,400kg	23,000kg	23,600kg
	VSMS2	L5S										
	VMDL	LHD5	L2A	Subterranean LHD		22,400kg	23,600kg	24,300kg	25,000kg	25,750kg	26,500kg	27,250kg
	VSMS2/VMMS	LHD5S										
35/65R33	VSMS	L5S	D2A	Conventional		23,000kg	23,600kg	25,000kg	25,750kg	26,500kg	27,250kg	28,000kg
	VMMS	LHD5S	L2A	Subterranean LHD		27,250kg	28,000kg	29,000kg	30,000kg	30,750kg	31,500kg	32,500kg

RADIAL TIRE

1. Tread Designs

Earthmover Service



VUT

V-STEEL ULTRA TRACTION
E-2



Non-directional pattern VUT features superior traction and excellent self-cleaning. Lighter weight provides superior maneuverability and fuel consumption.



VKT

V-STEEL K-TRACTION
E-2



Ideal for soft or muddy surfaces, offering good traction and flotation.



VSB

V-STEEL S-BLOCK
E-2



VSB exhibits excellent traction and maneuverability. Suitable for both gravel and hard packed surfaces like paved roads. Designed for heavy-duty trucks and trailers.



VFT

V-STEEL F-TRACTION
E-2



Provides good traction, generates low heat and assures long tread life on soft, muddy or packed surfaces.



VHS

V-STEEL H-SERVICE
E-2



Minimum heat build-up enables high-speed operation for coal and bauxite hauling. Reducing irregular wear means a longer tread life. Suitable for rigid or bottom-type coal haulers in high TKPH operations.



VSW

V-STEEL SNOW WEDGE
E-2



VSW is the first of its kind in snow radials, especially developed for machines used in snow removal work. This tire has excellent traction from a standing start and during acceleration as well as superior cornering and braking performance, especially on icy, packed or soft snow surfaces. VSW provides all-season service, requiring no replacement during summer and offers exceptional ability to be retreaded.

Earthmover Service



VLT

V-STEEL L-TRACTION
E-3



For ADT For Scraper

Wide and self-cleaning tread pattern offers excellent maneuverability, traction and floatation on soft or muddy surfaces.



VMT

V-STEEL M-TRACTION
E-3



Wide Base Regular

Normal-depth tread with a non-directional traction pattern, featuring strong resistance to heat build-up. Most suitable for hauling equipment used in coal mines, and equally applicable to operations on soft or muddy surfaces.



VTS

V-STEEL TRACTION-STABILITY
E-3



VTS tire offers exceptional stability, superior riding comfort, optimum traction and reduced cost per performance than the 80 series of the same tread class.



VRL

V-STEEL R-LUG
E-3



Wide Base Regular

Tough lug-pattern VRL features excellent traction as well as good resistance to cutting and casing fatigue. Suitable for scrapers on rocky surfaces.



VRF

V-STEEL ROCK FAST
E-3



VRF has great wear and cut resistance and has a long tread life as an E-3 premium pattern. MASTERCORE VRF can be customized to meet the needs of any site so you can run your mines more efficiently, with greater productivity.



L317

E-4



This tire's features are extra-long life, superior cut resistance and excellent traction. The casing is reinforced by ★3 for heavy-duty mining trucks in cyclical operation.

Earthmover Service



VLTS

V-STEEL L-TRACTION S
E-4



Offers outstanding cut resistance and long tread life on rocky or gravel surfaces in mining, quarry and construction, with superior traction.



VSNT

V-STEEL N-TRACTION
E-4



Unique non-directional traction pattern VSNT provides optimum traction without compromising tread life. The wide tread is our concept to minimize side-wall cuts. Applicable for underground trucks in underground mines.



VMTS

V-STEEL M-TRACTION S
E-4



Non-directional deep tread pattern for strong traction, especially resistant to side-slipping. High wear resistance ensures long tread life. Applicable for muddy or soft surfaces.



VMTD

V-STEEL M-TRACTION DEEP
E-4



2400R35

Provide excellent tire life and superior traction without compromising heat resistance thanks to a newly developed tread pattern with deeper tread depth.



VMTD

V-STEEL M-TRACTION DEEP
E-4

New



2700R49

Provide excellent tire life and superior traction without compromising heat resistance thanks to a newly developed tread pattern with deeper tread depth. MASTERCORE VMTD can be customized to meet the needs of any site so you can run your mines more efficiently, with greater productivity.



VMTP

V-STEEL M-TRACTION PREMIUM
E-4



Non-directional extra-deep tread corresponding to E4.5 ensures long tread life and offers superior traction, especially on muddy surfaces.

Earthmover Service



VZTS

V-STEEL Z-TRACTION S

E-4



Deep tread pattern with sidewall protectors. Specifically designed for giant dump trucks. Non-directional deep tread pattern ensures excellent traction and strong resistance to side-slipping as well as long life and cut resistance on rocky surfaces.



VZTP

V-STEEL Z-TRACTION PREMIUM

E-4



Extra-deep tread pattern with sidewall protectors. VZTP focuses especially on traction, extra-long tread life and superior cut resistance. Narrow center tread grooves, which reduce tread block movement and help with heat dissipation, along with wider side lugs, achieves the perfect balance of opposing performance targets: traction, tread life, and heat resistance. VZTP can be the best solution for large, rigid dump trucks working on muddy surfaces.



VELS

V-STEEL E-LUG S

E-4



18.00R25~
21.00R35 40.00R57

Deep tread pattern with sidewall protectors. Suited for abrasive roads, such as rocky, gravel or packed surfaces. High resistance to cutting, chipping and shock damage.



VRLS

V-STEEL R-LUG S

E-4



14.00R24~
16.00R25 21.00R33~
37.00R57

Rock-deep tread with tough lug and sidewall protectors. High resistance to cutting and chipping for long tread life. Specially designed for dump trucks engaged in earthmoving.



VREP

V-STEEL ROCK E-PREMIUM

E-4



Without sacrificing wear resistance compared to the current standard pattern, VREP minimizes heat generation and achieves the highest TKPH among current E-4 rock patterns. This makes it suitable for giant rigid dump trucks running at high speeds which can cause extreme heat buildup inside the tire.



VRDU

V-STEEL ROCK DEEP ULTRA

E-4



New

2400R35

Provide excellent tire life and superior traction without compromising heat resistance thanks to a newly developed tread pattern with deeper tread depth.

Earthmover Service



VRDU

V-STEEL ROCK DEEP ULTRA
E-4



2700R49

Provide excellent tire life and superior traction without compromising heat resistance thanks to a newly developed tread pattern with deeper tread depth. MASTERCORE VRDU can be customized to meet the needs of any site so you can run your mines more efficiently, with greater productivity,



VRDP

V-STEEL ROCK DEEP PREMIUM
E-4



Extra-Deep rock tread with sidewall protectors is the main feature of VRDP, enabling extended tread life and super cut resistance without compromising resistance to heat build-up. VRDP is suitable for giant rigid dump trucks. Can be used on abrasive or rocky road surfaces and can reduce cost per performance of standard E-4 rock patterns.



VRPS

V-STEEL ROCK PREMIUM SERVICE
E-4



46/90R57
50/90R57

53/80R63

With a special tread pattern and optimal tire rigidity, VRPS tires boost longer tread life and great resistance to wear and tear, so they are recommended especially for the mine require extra protection against wear, cuts and penetration.



VRPS

V-STEEL ROCK PREMIUM SERVICE
E-4



59/80R63

MASTERCORE VRPS can be customized to meet the needs of any site so you can run your mines more efficiently, with greater productivity in addition to longer tread life and great resistance to wear and tear.



VREV

V-STEEL ROCK EXTRA V-OPERATION
E-4



59/80R63 53/80R63 50/80R57 33.00R51

The VREV pattern achieves minimized heat generation that allows maximum workload. MASTERCORE VREV can be customized to meet the needs of any site so you can run your mines more efficiently, with greater productivity in addition to extra protection against wear, cuts and penetration.



VREM

V-STEEL ROCK EXTRA M-OPERATION
E-4



New tread pattern designed specially to provide higher wear resistance. Master VREM can be customized to meet the needs of any site so you can run your mines more efficiently, with greater productivity in addition to extra protection against wear, cuts and penetration.

Earthmover Service



VRWP

V-STEEL ROCK W-PREMIUM

E-4



New tread pattern designed specifically to provide higher wear resistance. Grooves reduce pattern strain and provide additional heat reduction. MASTERCORE VRWP can be customized to meet the needs of any site so you can run your mines more efficiently, with greater productivity in addition to extra protection against wear, cuts and penetration.



VZTB

V-STEEL Z-TRACTION BEYOND

E-4



New tread pattern designed specifically to provide maximum traction and increased airflow which reduces temperature and extends tire life. Full width grooves aid traction and increase material ejection for superior grip. MASTERCORE VZTB can be customized to meet the needs of any site so you can run your mines more efficiently, with greater productivity in addition to high traction/grip performance.

Earthmover Service



VRQP

V-STEEL ROCK QUARRY PREMIUM

E-4



Extra-thick tread pattern VRQP assures longer tread life and superior cut resistance. Greatly reduces total tire costs for replacement. Specially developed for mid-size rigid dump trucks working in quarries and other tough operations.

Sand Service

VSJ

V-STEEL JAMAL

E-7



The unique tread design ensures maximum flotation and traction. VSJ is designed with a steel radial construction for operating on desert or soft ground, as well as paved roads.

Grader Service



VUT

V-STEEL ULTRA TRACTION

G-2



Non-directional pattern VUT features superior traction and excellent self-cleaning. Lighter weight provides superior maneuverability and fuel consumption.



VSW

V-STEEL SNOW WEDGE

G-2



VSW is the first of its kind in snow radials, especially developed for machines used in snow removal work. This tire has excellent traction from a standing start and during acceleration as well as superior cornering and braking performance, especially on icy, packed or soft snow surfaces. VSW provides all-season service, requiring no replacement during summer and offers exceptional ability to be retreaded.

Grader Service



VJT

V-STEEL J-TRACTION
G-3



Next-generation pattern reduces vibrations, and achieves higher riding comfort plus VMT's long-standing grip and long tread life. VJT is suitable for construction and general duties.



VMTS

V-STEEL M-TRACTION S
G-4



Non-directional deep tread pattern offers superior traction and extra-long tread life. Designed especially for graders in underground mines or quarries.

Loader & Dozer Service



VLT

V-STEEL L-TRACTION
L-3



Suitable for wet, soft or muddy surfaces with excellent maneuverability, traction and flotation.



VUT

V-STEEL ULTRA TRACTION
L-2



For Compact Loader 335/80R20~405/70R20 For Loader 15.5R25~23.5R25

Non-directional pattern VUT features superior traction and excellent self-cleaning. Lighter weight provides superior maneuverability and fuel consumption.



VSW

V-STEEL SNOW WEDGE
L-2



VSW is the first of its kind in snow radials, especially developed for machines used in snow removal work. This tire has excellent traction from a standing start and during acceleration as well as superior cornering and braking performance, especially on icy, packed or soft snow surfaces. VSW provides all-season service, requiring no replacement during summer and offers exceptional ability to be retreaded.



VJT

V-STEEL J-TRACTION
L-3



Next-generation pattern reduces vibrations, and achieves higher riding comfort plus VMT's long-standing grip and long tread life. VJT is suitable for construction and general duties.

Loader & Dozer Service



VTS

V-STEEL TRACTION-STABILITY

L-3



VTS tire offers exceptional stability, superior riding comfort, optimum traction and reduced cost per performance than the 80 series of the same tread class. Designed primarily for wheeled loaders as the preferred line.



VLTS

V-STEEL L-TRACTION S

L-4



Offers best cut resistance and long tread life with superior traction on rocky or gravel surfaces in mines, quarries and construction sites.



VSNT

V-STEEL N-TRACTION

L-4



Unique non-directional traction pattern VSNT can provide optimum traction without compromising tread life. The wide tread is our concept to minimize sidewall cuts. Applicable for wheeled loaders operating in quarries or mining for load and carry operations with sure longitudinal traction.



VMNT

V-STEEL MINING N-TRACTION

SH-4



Featuring advanced Subterranean technology, VMNT supports higher load capacity and extended wear life, without compromising traction or sidewall protection. Its optimized compound and proven non-directional pattern make it ideal for underground haulage trucks



VSNL

V-STEEL N-LUG

L-4



14.00R20 35/65R33
45/65R45

Rock pattern design offers outstanding traction, stability and comfort. Sidewall protection reduces cuts and other damage. Primarily designed for underground mining, they are also suitable for load and carry operations in open pits and quarries.



VSDT

V-STEEL SUPER DEEP TRACTION

L-5



Extra-deep tread for excellent traction, comfortable ride, superior cut resistance and long tread life. The wide tread is our concept to minimize sidewall cuts. For use in underground mines, open pits and quarries.

Loader & Dozer Service



VSDR

V-STEEL SUPER DEEP ROCK
L-5



Extra super deep tread designed for severe or rocky surfaces, offering excellent traction, stability and a comfortable ride. Specially designed sidewall provides extended protection from cutting. For use in underground mines, open pits and quarries.



VSDL

V-STEEL D-LUG
L-5



8.25R15~
12.00R20 15.5R25~
60/80R57

Extra-deep tread designed for severe or rocky surfaces, offering excellent traction, stability and a comfortable ride. Specially designed sidewall provides extended protection from cutting. For use in underground mines, open pits and quarries.



VMDL

V-STEEL MINING D-LUG
LHD-5



VMDL is applied Subterranean LHD Standard for use in underground mines. Extra-deep tread designed for severe or rocky surfaces, offering excellent traction, stability and a comfortable ride. Specially designed sidewall provides extended protection from cutting.



VSMS

V-STEEL SMOOTH TREAD-MS
L-5S



Specially compounded, smooth, extra-deep tread rubber ensures maximum resistance to cutting and wearing. Designed for operating over severe rocky surfaces, in underground mines, open pits and quarries.



VSMS2

V-STEEL SMOOTH TREAD-MS 2
L-5S / LHD-5S



Optimized sidewall shape ensures maximum sidewall cut resistance. VSMS2 boost longer tire life compare to VSMS. Designed for operating over severe rocky surfaces, in underground mines, open pits and quarries.



VMMS

V-STEEL MINING SMOOTH TREAD MS
LHD-5S

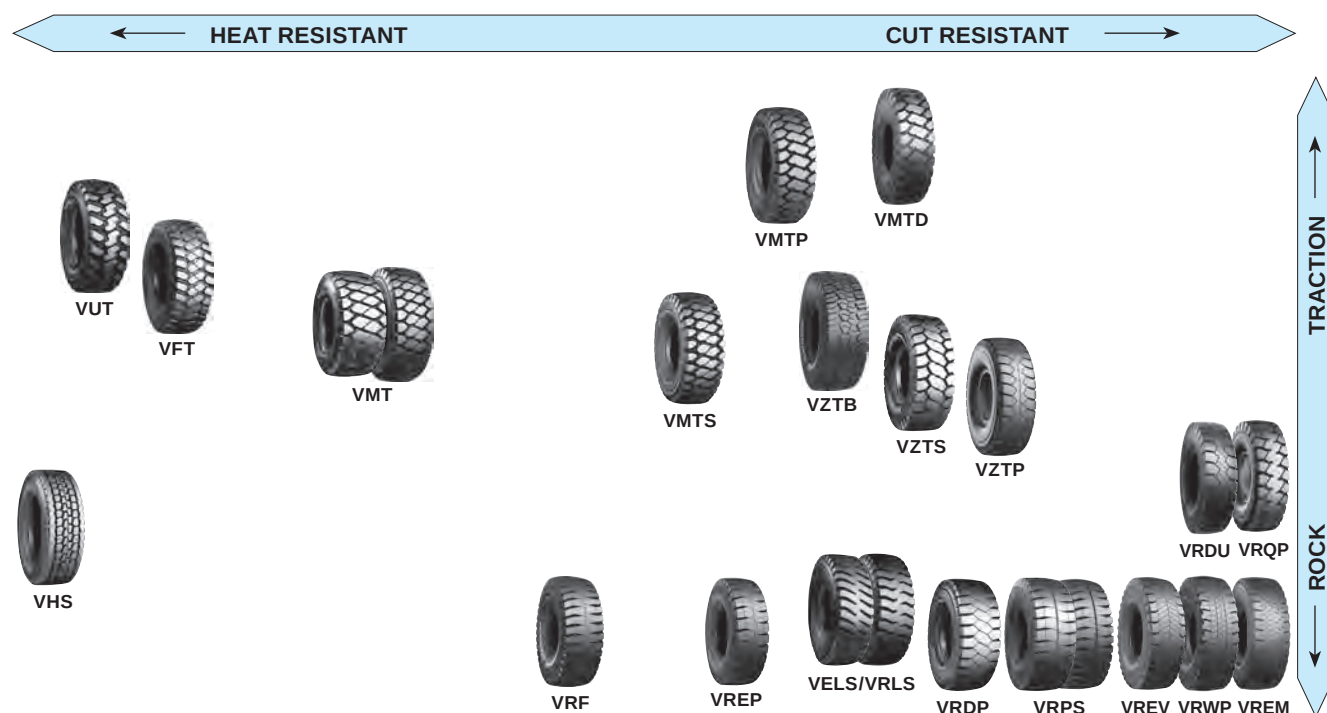


Built with Subterranean Technology to secure sufficient load capacity, VMMS offers longer wear life over VSMS and VSMS2. Its optimized sidewall shape, inherited from VSMS2, maximizes cut resistance, making it ideal for harsh conditions in underground mines, open pits, and quarries.

2. Application

■ Earthmover Service

Rigid dump trucks / Bottom dump trucks



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

VUT(E2)

335/80 R 20	T/L	
365/80 R 20	T/L	
405/70 R 20	T/L	

VKT(E2)

29.5 R 29	T/L	★2
37.5 R 39	T/L	★2

VSB(E2)

14.00 R 25	T/L	★3
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VFT(E2)

27.00 R 49	T/L	★2
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VHS(E2)

36.00 R 51	T/L	★2
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***VSW(E2)**

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

T/T: Tube Type T/L: Tubeless Type
 MS: Multiple Star Rating (★1/★2)
 MT: Multiple Star Rating (★2/★4)
 (Please see P.10 for more details.)

*VSW is especially designed for snow surface operations.

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

VLT(E3)

20.5 R 25	T/L	MS
23.5 R 25	T/L	MS ★2
750/65(30/65) R 25	T/L	MS
26.5 R 25	T/L	MS
29.5 R 25	T/L	MS ★2
33.25 R 29	T/L	★2
37.25 R 35	T/L	★2
40.5/75 R 39	T/L	★2

VTS(E3)

875/65 R 29	T/L	MS
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VMT(E3)

30.00 R 51	T/L	★2
33.00 R 51	T/L	★2
40.00 R 57	T/L	★2

VRL(E3)

29.5 R 35	T/L	★2
33.25 R 35	T/L	★2

VRF(E3)

BRIDGESTONE MASTERCORE 59/80 R 63	T/L	★2
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Size	Type	Star Rating
------	------	-------------

L317(E4)

11.00 R 20	T/T	★3
12.00 R 20	T/T	★3
11 R 22.5	T/L	14
12 R 22.5	T/L	★3
12.00 R 24	T/T	★3

VLTS(E4)

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
875/65 R 29	T/L	MS
33.25 R 29	T/L	★2

VMTS(E4)

14.00 R 25	T/L	★3
16.00 R 25	T/L	★2
18.00 R 25	T/L	★2
27.00 R 49	T/L	★2

Articulated dump trucks



HEAT RESISTANT

CUT RESISTANT



VSW



VLT



VTS



VLTS

TRACTION
ROCK

Off road trucks



HEAT RESISTANT

CUT RESISTANT



VSB



L317



VMTS



VMTP



VRLS

TRACTION
ROCK

Scrapers



HEAT RESISTANT

CUT RESISTANT



VKT



VLT



VRL

TRACTION
ROCK

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

VRQP(E4)

18.00 R 33	T/L	★2
24.00 R 35	T/L	★2

VMTD(E4)

24.00 R 35	T/L	★3
BRIDGESTONE MASTERCORE 27.00 R 49	T/L	★2

New

VREP(E4)

27.00 R 49	T/L	★2
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VRDU(E4)

BRIDGESTONE MASTERCORE 24.00 R 35	T/L	★3
27.00 R 49	T/L	★2

New

VMTP(E4)

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
27.00 R 49	T/L	★2
33.00 R 51	T/L	★2

VELS(E4)

18.00 R 25	T/L	★2
18.00 R 33	T/L	★2
21.00 R 35	T/L	★2
40.00 R 57	T/L	★2

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

VZTP(E4)

46/90 R 57	T/L	★2
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VZTS(E4)

37.00 R 57	T/L	★2
40.00 R 57	T/L	★2

VRLS(E4)

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
24.00 R 35	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

VRDP(E4)

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

VRPS(E4)

33.00 R 51	T/L	★2
42/90 R 57	T/L	★2

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

VRPS(E4) (continued)

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
BRIDGESTONE MASTERCORE 59/80 R 63	T/L	★2

VREV(E4)

27.00 R 49	T/L	★2
46/90 R 57	T/L	★2
BRIDGESTONE MASTERCORE 33.00 R 51	T/L	★2
50/80 R 57	T/L	★2
53/80 R 63	T/L	★2
59/80 R 63	T/L	★2

VREM(E4)

BRIDGESTONE MASTERCORE 50/80 R 57	T/L	★2
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VRWP(E4)

BRIDGESTONE MASTERCORE 40.00 R 57	T/L	★2
46/90 R 57	T/L	★2

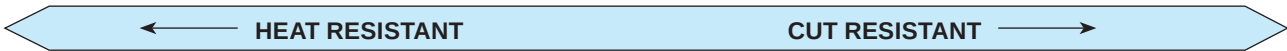
VZTB(E4)

BRIDGESTONE MASTERCORE 46/90 R 57	T/L	★2
53/80 R 63	T/L	★2

T/T: Tube Type

T/L: Tubeless Type

Grader Service



VUT



VSW



VJT



VMTS



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
17.5 R 25	T/L	★1
20.5 R 25	T/L	★1
23.5 R 25	T/L	★1

*VSW(G2)

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

VJT(G3)

20.5 R 25	T/L	★1
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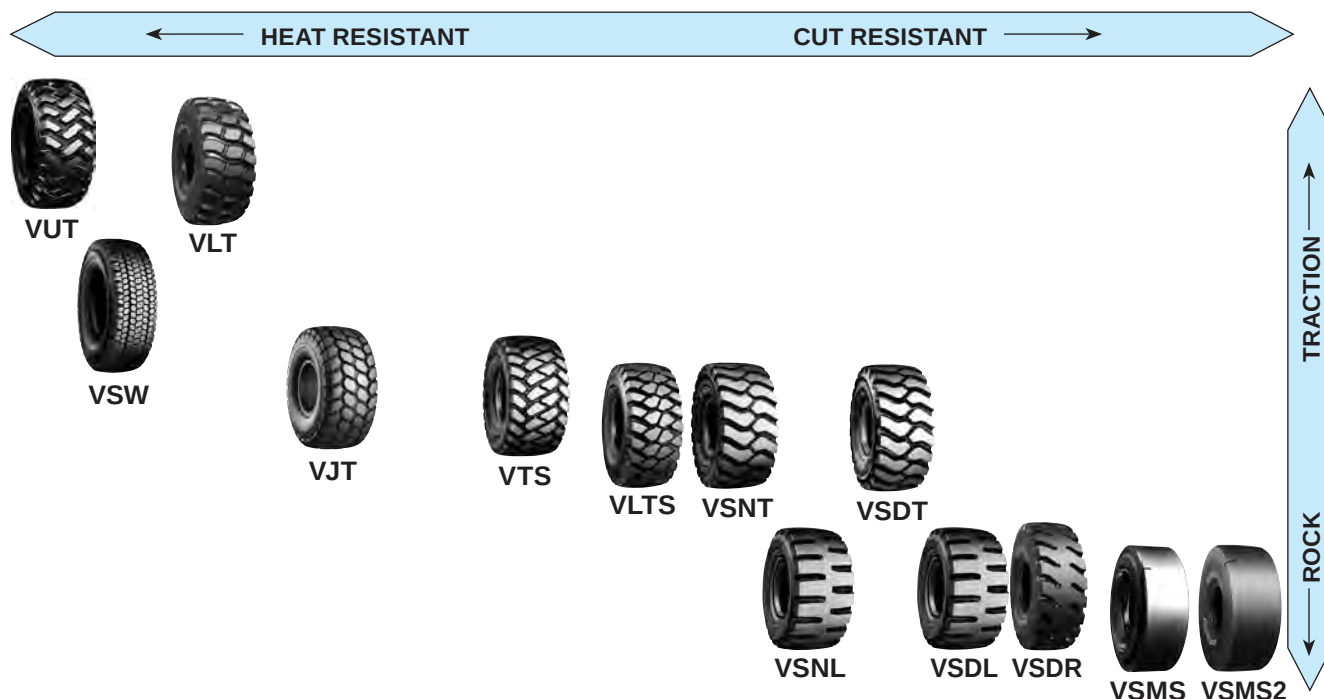
VMTS(G4)

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

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
17.5 R 25	T/L	★1
20.5 R 25	T/L	★1
23.5 R 25	T/L	★1

*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
600/65 R 25	T/L	★1

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

VJT(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★2

T/T: Tube Type

T/L: Tubeless Type

MS: Multiple Star Rating (★1/★2)

MT: Multiple Star Rating (★2/★4)

TG: For Semi-Drop Center Rim

(Please see P.10 for more details.)

*VSW is especially designed for snow surface operations.

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

VTS(L3)

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

VLTS(L4)

20.5 R 25	T/L	MS
23.5 R 25	T/L	MS
875/65 R 29	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	MT MS ★2

VSNL(L4)

14.00 R 20	T/T	★2
35/65 R 33	T/L	★2
New 45/65 R 45	T/L	★2★3

VSDT(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★2

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

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

VSDL(L5) (continued)

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
33/65 R 29	T/L	★2
35/65 R 33	T/L	★1★2
45/65 R 39	T/L	★1
45/65 R 45	T/L	★1★2★3
50/65 R 51	T/L	★2
55.5/80 R 57	T/L	
60/80 R 57	T/L	

VSDR(L5)

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

VSMS2(L5S)

17.5 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

Underground Service



VSNT VMNT



VSDT



VSNL



VSDL VMDL
/VSDR



VSMS VSMS2 VMMS



Size	Type
------	------

VSNT(E4/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	MT MS ★2

VMNT(SH4) Subterranean Haulage

35/65 R 33	T/L	★4
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VSNL(L4)

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

VSDT(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★2

VSDR(L5)

20.5 R 25	T/L	★1★2
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Size	Type
------	------

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
33/65 R 29	T/L	★2
35/65 R 33	T/L	★1★2

VMDL(LHD5) Subterranean LHD

26.5 R 25	T/L	★2
29.5 R 29	T/L	★2

Size	Type
------	------

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
35/65 R 33	T/L	★2

VSMS2(L5S)

17.5 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

VSMS2(LHD5S) Subterranean LHD

26.5 R 25	T/L	★2
29.5 R 29	T/L	★2

VMMS(LHD5S) Subterranean LHD

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

T/T: Tube Type

T/L: Tubeless Type

MS: Multiple Star Rating (★1/★2)

MT: Multiple Star Rating (★2/★4)

■ Sand Service



VSJ(E7)

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

T/T: Tube Type

T/L: Tubeless Type

3. Technical Data

3.1 Earthmover, Grader, Loader & Dozer Service

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	mm	mm inch	inch
15"														
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
20"														
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	- -	
14.00R20	VSNL		★2	L4	D2A	-	-	1196 47.1	360 14.2	550 21.7	414 16.3	34.0	- -	10.00WI
335/80R20 Tubeless	VUT	136B 147A2		E2 L2	DE2	-	-	1036 40.8	319 12.6	463 18.2	357 14.1	19.0	- -	11x20
365/80R20 Tubeless	VUT	141B 153A2		E2 L2	DE2	-	-	1087 42.8	347 13.7	483 19.0	389 15.3	21.0	- -	11x20
405/70R20 Tubeless	VUT	143B 155A2		E2 L2	DE2	-	-	1092 43.0	398 15.7	485 19.1	446 17.6	20.0	- -	13x20

For the TKPH(TMPH) Ratings, please refer to page 11.

Pattern	Application Max.Speed	Tire Load Limits at Various Cold Inflation Pressures																			Size		
	km/h mph																						
15"																							
		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			
VSDL	Loader 10 5	★																			★2	8.25R15	
		kg																			3100		
		lbs																			6800		
VSDL		★																			★2	10.00R15	
		kg																			4025		
		lbs																			8900		
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										
		lbs																					
20"																							
VSMS	Loader 10 5	★																			★2	9.00R20	
		kg																			4375		
		lbs																			9650		
L317	E/M 50 30	★																			★3	11.00R20	
		kg																			3760		
		lbs																			8290		
L317		★																			★3		
		kg																			4160		
		lbs																			9170		
VSDL VSMS	Loader 10 5	★																			★2	12.00R20	
		kg																			6150		
		lbs																			13600		
VSNL			★																			★2	14.00R20
			kg																			7300	
	lbs																				16100		
		kPa psi	275 40	300 44	325 47	350 51	375 54																
VUT	E/M 50 30	★																			335/80R20		
		kg	1800 4000	1900 4200	2000 4400	2120 4700	2240 5000																
		lbs																					
VUT	Loader 10 5	★																			365/80R20		
		kg	2430 5350	2575 5700	2725 6000	2900 6400	3075 6800																
		lbs																					
VUT	E/M 50 30	★																			405/70R20		
		kg	2060 4500	2180 4800	2300 5100	2430 5400	2575 5700																
		lbs																					
VUT	Loader 10 5	★																					
		kg	2900 6400	3075 6800	3250 7150	3450 7600	3650 8000																
		lbs																					
VUT	E/M 50 30	★																					
		kg	2180 4800	2300 5100	2430 5400	2575 5700	2725 6000																
		lbs																					
VUT	Loader 10 5	★																					
		kg	3075 6800	3250 7250	3450 7600	3650 8100	3875 8550																
		lbs																					

1) Figures under the star rating denote the maximum load and inflation pressures.

2) For Loader & Dozer Service, Tire Load Limits will depend on a type of the operation. Please refer to page 17.

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	mm	mm inch	inch
22.5"														
11R22.5 Tubeless	L317		14	E4	-	150	103	1078 42.4	270 10.6	502 19.8	300 11.8	25.0	318 12.5	8.25
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
24"														
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	1254 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	- -	
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	VSBS		★3	E2	E2A	179	123	1365 53.7	390 15.4	628 24.7	433 17.0	21.0	450 17.7	10.00W
	VRLS		★3	E4	E2A-LS	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	- -	
14.00R24 TG Tubeless	VUT		★1	G2	G2A	-	-	1350 53.1	373 14.7	608 23.9	420 16.5	25.5	- -	8.00TG
	VSW	153A8 175A2	★1	G2 L2	DG2	-	-	1351 53.2	370 14.6	594 23.4	426 16.8	23.5	- -	
	VMTS		★1	G4	G2A			1400 55.1	373 14.7	645 25.4	415 16.3	38.0	- -	
16.00R24 TG Tubeless	VSW		★1	G2	-	-	-	1485 58.5	417 16.4	680 26.8	467 18.4	22.5	- -	10.00VA
25"														
14.00R25 Tubeless	VSBS		★3	E2	E2A-LS	179	123	1365 53.7	390 15.4	628 24.7	433 17.0	21.0	450 17.7	10.00/1.5
	VMTS		★3	E4	E2A-LS - E3A	91 - 136	62 - 93	1406 55.4	391 15.4	650 25.6	435 17.1	38.0	450 17.7	
	VRLS		★3	E4	E2A	85	58	1403 55.2	391 15.4	650 25.6	435 17.1	39.0	450 17.7	

For the TKPH(TMPH) Ratings, please refer to page 11.

Pattern	Application Max.Speed km/h mph	Tire Load Limits at Various Cold Inflation Pressures																	Size	
22.5"																				
		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	815 118	11R22.5	
L317	E/M 50 30	★ kg lbs	14PR																	
			2150 4740	2240 4940	2330 5140	2420 5340	2500 5510	2590 5710	2670 5890	2760 6080	2840 6260	2920 6440	3000 6610							
L317		★ kg lbs	★3																	
			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	3710 8180	3760 8290	12R22.5	
24"																				
		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	12.00R24	
L317 VMTP	E/M 50 30	★ kg lbs	★3																	
			3050 6720	3180 7010	3300 7280	3430 7560	3550 7830	3670 8090	3790 8360	3900 8600	4020 8860	4140 9130	4250 9370							
VSMS	Loader 10 5	★ kg lbs	★2																	
						4875 11000	5150 11400	5300 11700	5450 12000	5600 12300	5800 12800	6000 13200	6150 13600	6300 13900	6500 14300	6500 14300	6700 14700	6900 15200	13.00R24 TG	
		kPa psi	200 29	225 33	250 36	275 40	300 44	325 47	350 51	375 54									14.00R24	
VUT	Grader 40 25	★ kg lbs	★1																	
			1850 4080	2000 4400	2180 4800	2360 5200	2500 5520	2650 5840	2800 6150	3000 6600										
		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	14.00R24 TG		
VSBS VRLS	E/M 50 30	★ kg lbs	★3																	
			4000 8800	4125 9100	4375 9650	4500 9900	4625 10200	4750 10500	5000 11000	5150 11400	5300 11700	5450 12000	5600 12300	5710 12500	5830 12800	5940 13100	6050 13400			
VSMS	Loader 10 5	★ kg lbs	★2																	
			5950 13120	6200 13700	6450 14220	6700 14800	6950 15300	7200 15900	7450 16400	7700 16980	7950 17500	8200 18080	8450 18630	8700 19180	8950 19690	9200 20680	9500 20900	16.00R24 TG		
		kPa psi	200 29	225 33	250 36	275 40	300 44	325 47	350 51	375 54							525 76		550 80	
VUT VSW VMTS	Grader 40 25	★ kg lbs	★1																	
			2240 4940	2430 5360	2650 5840	2800 6150	3000 6600	3250 7150	3350 7400	3650 8050										
VSW	Loader 10 5	★ kg lbs															★1			16.00R24 TG
																	6700 14800	6900 15200		
VSW	Grader 40 25	★ kg lbs	★1																	
			2900 6400	3150 6950	3350 7400	3650 8050	3875 8550	4125 9100	4375 9650	4625 10200										
25"																				
		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	14.00R25		
VSBS VMTS VRLS	E/M 50 30	★ kg lbs	★3																	
			4000 8800	4125 9100	4375 9650	4500 9900	4625 10200	4750 10500	5000 11000	5150 11400	5300 11700	5450 12000	5600 12300	5710 12500	5830 12800	5940 13100	6050 13400			

1) Figures under the star rating denote the maximum load and inflation pressures.

2) For Loader & Dozer Service, Tire Load Limits will depend on a type of the operation. Please refer to page 17.

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	mm	mm inch	inch
15.5R25 Tubeless	VUT		★1	G2, L2	DG2	-	-	1269 50.0	383 15.1	559 22.0	436 17.2	27.0	- -	12.00/1.3
	VSDL		★1	L5	D2A	-	-	1329 52.3	393 15.5	606 23.9	443 17.4	64.0	- -	
16.00R25 Tubeless	VMTS		★2	E4	E2A-LS	123	84	1535 60.4	450 17.7	711 28.0	500 19.7	45.0	513 20.2	11.25/2.0
	VRLS		★2	E4	E2A E1A	112 146	77 100	1531 60.3	448 17.6	697 27.4	510 20.1	45.0	513 20.2	
17.5R25 Tubeless	VUT		★1	G2, L2	DG2	-	-	1340 52.8	444 17.5	586 23.1	500 19.7	28.0	- -	14.00/1.5
	VSW	153A8	★1	G2	DG2	-	-	1340 52.8	440 17.3	597 23.5	480 18.9	27.0	- -	
		176A2		L2										
	VJT	176A2	★1	L3	D2A	-	-	1352 53.2	443 17.4	604 23.8	510 20.1	30.0	- -	
	VSDL		★2	L5	D2A	-	-	1400 55.1	440 17.3	639 25.2	495 19.5	68.0	- -	
			★1											
	VSMS		★2	L5S	D2A	-	-	1371 54.0	440 17.3	631 24.8	487 19.2	68.5	- -	
			★1											
VSMS2		★2	L5S	D2A	-	-	1371 54.0	453 17.8	631 24.8	487 19.2	68.5	- -		
18.00R25 Tubeless	VMTS		★2	E4	E2A	169	116	1654 65.1	505 19.9	754 29.7	571 22.5	51.0	587 23.1	13.00/2.5
	VELS		★2	E4	E2A E1A	144 179	99 123	1642 64.6	515 20.3	744 29.3	580 22.8	50.0	587 23.1	
	VSMS		★2	L5S	D2A	-	-	1675 65.9	512 20.2	733 28.9	592 23.3	84.5	- -	
★1														

For the TKPH(TMPH) Ratings, please refer to page 11.

Will be discontinued.

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									15.5R25				
VUT VSDL	Loader 10 5	★ kg lbs	★1																	
			5000 11000	5150 11400	5450 12000	5600 12300	5800 12800													
		kPa psi	125 18	150 22	175 25	200 29	225 33	250 36	275 40	300 44					16.00R25					
VUT	Grader 40 25	★ kg lbs	★1										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.							
			1550 3420	1750 3860	2000 4400	2180 4800	2360 5200	2575 5680	2800 6150	3000 6600										
		kPa psi	450 65	475 69	500 73	525 76	550 80	575 83	600 87	625 91	650 94	675 98	700 102	17.5R25						
VMTS VRLS	E/M 50 30	★ kg lbs	★2																	
			5150 11400	5450 12000	5600 12300	5800 12800	6000 13200	6300 13900	6500 14300	6700 14800	6900 15200	7100 15700	7300 16100							
		kPa psi	400 58	425 62	450 65	475 69	500 73	525 76	550 80	575 83	600 87	625 91	650 94	17.5R25						
VUT VSW VJT VSDL VSMS VSMS2	Loader 10 5	★ kg lbs	★1										★2							
			6000 13200	6150 13600	6500 14300	6700 14800	7100 15700	7300 16100	7500 16500	7750 17100	8000 17600	8250 18200	8500 18700							
		kPa psi	125 18	150 22	175 25	200 29	225 33	250 36	275 40	300 44										
VUT VSW	Grader 40 25	★ kg lbs	★1										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.							
			1850 4080	2120 4680	2360 5200	2650 5840	2900 6400	3075 6800	3350 7400	3650 8050										
		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	18.00R25	
VMTS VELS	E/M 50 30	★ kg lbs	★2																	
			6700 14800	7100 15700	7300 16100	7500 16500	7750 17100	8000 17600	8250 18200	8500 18700	8750 19300	9000 19800	9250 20400							
VSMS	Loader 10 5	★ kg lbs	★1											★2						
						11200 24700	11800 26000	12150 26800	12500 27600	12850 28300	13200 29100	13600 30000	14000 30900	14500 32000	15000 33100	15000 33100	15500 34200	16000 35300		

1) Figures under the star rating denote the maximum load and inflation pressures.

2) For Loader & Dozer Service, Tire Load Limits will depend on a type of the operation. Please refer to page 17.

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	mm	mm inch	inch
20.5R25 Tubeless	VSW		MS	E2, L2	DE2	-	-	1470 57.9	530 20.9	640 25.2	603 23.7	29.0	- -	17.00AL/1.7(★1only) 17.00/2.0
	VUT		★1	G2, L2	DG2	-	-	1473 58.0	533 21.0	643 25.3	608 23.9	30.5	- -	
	VLT	177B	MS	E3	DE2	149	102	1498 59.0	530 20.9	676 26.6	586 23.1	40.0	- -	
		186A2		L3		-	-							
	VJT	161A8	★1	G3	DG2	-	-	1480 58.3	530 20.9	652 25.7	609 24.0	33.0	- -	
		186A2		L3										
	VLTS	177B	MS	E4	DE2	126	86	1478 58.2	530 20.9	667 26.3	581 22.9	49.0	- -	
		186A2		L4		-	-							
	VSDL		★2	L5	D2A	-	-	1552 61.1	531 20.9	702 27.6	600 23.6	78.0	- -	
			★1											
	VSDR		★2	L5	D2A	-	-	1552 61.1	531 20.9	702 27.6	600 23.6	78.0	-	
23.5R25 Tubeless	VSW		MS	E2, L2	DE2	-	-	1596 62.8	620 24.4	692 27.2	689 27.1	31.5	- -	19.50/2.5
	VUT		★1	G2, L2	DG2	-	-	1599 63.0	620 24.4	702 27.6	688 27.1	33.5	- -	
	VLT	185B	★2	E3	E2A	190	130	1629 64.1	610 24.0	734 28.9	670 26.4	42.5	- -	
		195A2	MS		DE2	153	105	1623 63.9	616 24.3	734 28.9	680 26.8	42.5		
				L3		-	-							
	VJT	195A2	★1	L3	D2A	-	-	1600 63.0	617 24.3	696 27.4	695 27.4	35.0	- -	
		201A2	★2											
	VLTS	185B	MS	E4	DE2	161	110	1616 63.6	612 24.1	729 28.7	675 26.6	54.0	- -	
		195A2		L4		-	-							
	VSDT	201A2	★2	L5	D2A	-	-	1660 65.4	621 24.4	745 29.3	680 26.8	79.0	- -	
		195A2	★1											
	VSDL		★2	L5	D2A	-	-	1672 65.8	613 24.1	755 29.7	677 26.7	87.0	- -	
			★1											
550/65R25 Tubeless	VTS		★1	L3	D2A	-	-	1350 53.1	547 21.5	594 23.4	605 23.8	32.5	- -	(14.00/1.5) 17.00/2.0
600/65R25 Tubeless	VSW	187A2	★1	L2	D2A	-	-	1424 56.0	600 23.6	627 24.7	668 26.3	31.5	- -	(17.00/1.7, 17.00/2.0) 19.50/2.5
650/65R25 Tubeless	VTS		★1	L3	D2A	-	-	1502 59.1	642 25.3	660 26.0	710 28.0	37.0	- -	19.50/2.5

For the TKPH(TMPH) Ratings, please refer to page 11.

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					
VSW VLT VLTS	E/M 50 30	★ kg lbs	★2															
			4375 9650	4750 10500	5000 11000	5300 11700	5600 12300	5800 12800	6150 13600	6500 14300	6700 14800	6900 15200	7300 16100					
		kPa psi	125 18	150 22	175 25	200 29	225 33	250 36	275 40	300 44								
VUT VJT	Grader 40 25	★ kg lbs	★1															
			2430 5360	2800 6150	3150 6950	3450 7600	3875 8550	4125 9100	4375 9650	4625 10200								
		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	400 58	425 62	450 65	475 69	500 73	525 76	550 80	575 83	600 87	625 91	650 94					
VUT(★1) VSW(★1) VLT(★1) VJT(★1) VLTS(★1) VSDL VSDR	Loader 10 5	★ kg lbs	★1															
			8000 17600	8250 18200	8750 19300	9000 19800	9500 20900	9750 21500	10000 22000	10300 22700	10900 24000	11200 24700	11500 25400					
		kPa psi	275 40	300 44	325 47	350 51	375 54	400 58	425 62	450 65	475 69	500 73	525 76					
VSW VLT VLTS	E/M 50 30	★ kg lbs	★2															
			5600 12300	6000 13200	6500 14300	6700 14800	7100 15700	7500 16500	7750 17100	8250 18200	8500 18700	9000 19800	9250 20400					
		kPa psi	125 18	150 22	175 25	200 29	225 33	250 36	275 40	300 44								
VUT	Grader 40 25	★ kg lbs	★1															
			3150 6950	3550 7850	4000 8800	4500 9900	4875 10700	5300 11700	5600 12300	6000 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
VLT(★1) VJT VLTS(★1) VSDT VSDL VUT(★1) VSW(★1)	Loader 10 5	★ kg lbs	★1															
								10300 22700	10600 23400	11200 24700	11500 25400	12150 26800	12500 27600	12850 28300	13200 29100	13600 30000	14000 30900	14500 32000
VTS		★ kg lbs	★1															
								7500 16500	7750 17100	8250 18200	8500 18700							
VSW	Loader 10 5	★ kg lbs	★1															
								8750 19300	9000 19800	9500 20900	9750 21500							
VTS		★ kg lbs	★1															
								10000 22000	10600 23400	10900 24000	11500 25400							

1) Figures under the star rating denote the maximum load and inflation pressures.

2) For Loader & Dozer Service, Tire Load Limits will depend on a type of the operation. Please refer to page 17.

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	mm	mm inch	inch
750/65R25 (30/65R25) Tubeless	VLT	190B	MS	E3	DE2	225	154	1625	765	718	831	43.0	-	(22.00/3.0) 24.00/3.0
		202A2		L3		-	-	64.0	30.1	28.3	32.7		-	
	VLTS	190B	★2	E4	E2A-LS	195	134	1623	765	713	832	55.0	-	
26.5R25 Tubeless	VLT	193B	MS	E3	DE2	190	130	1747	684	787	736	45.0	-	22.00/3.0
		202A2		L3		-	-	68.8	26.9	31.0	29.0		-	
	VJT	202A2	★1	L3	D2A	-	-	1737	682	754	795	38.0	-	
		209A2	★2			-	-	68.4	26.9	29.7	31.3		-	
	VLTS	193B	★2	E4	E2A-LS	186	127	1736	678	784	743	59.0	-	
	VSNT		MS	E4	DE2	165	113	1779	685	780	774	57.5	-	
			★2	L4		-	-	70.0	27.0	30.7	30.5		-	
	VSDT	209A2	★2	L5	D2A	-	-	1775	697	790	778	88.0	-	
		202A2	★1			-	-	69.9	27.4	31.1	30.6		-	
	VSDL		★2	L5	D2A	-	-	1790	684	797	761	95.5	-	
			★1			-	-	70.5	26.9	31.4	30.0		-	
	VMDL		★2	LHD5	L2A	-	-	1785	685	780	778	95.5	-	
	VSMS		★2	L5S	D2A	-	-	1775	684	800	760	95.0	-	
	VSMS2		★2	L5S	D2A	-	-	1775	704	800	760	95.0	-	
	VSMS2		★2	LHD5S	L2A	-	-	1775	704	786	789	95.0	-	
	VMMS		★2	LHD5S	L2A	-	-	1775	704	786	789	95.0	-	

For the TKPH(TMPH) Ratings, please refer to page 11.

Will be discontinued.

Pattern	Application Max.Speed	Tire Load Limits at Various Cold Inflation Pressures																	Size	
	km/h mph		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	
VLT VLTS	E/M 50 30	★ kg lbs	★2																	750/65R25 (30/65R25)
			6900 15200	7300 16100	7750 17100	8250 18200	8750 19300	9250 20400	9750 21500	10300 22700	10600 23400									
VLT	Loader 10 5	★ kg lbs	★1																	
									13200 29100	13600 30000	14500 32000	15000 33100								
VLTS VSNT VLT	E/M 50 30	★ kg lbs	★2																	26.5R25
			7100 15700	7500 16500	8000 17600	8500 18700	9000 19800	9500 20900	9750 21500	10300 22700	10600 23400	11200 24700	11500 25400							
VLT(★1) VJT VSNT VSDT VSDL VSMS VSMS2 (D2A)	Loader 10 5	★ kg lbs	★1																	
									12850 28300	13200 29100	14000 30900	14500 32000	15000 33100	15500 34200	16000 35300	16500 36400	17000 37500	18000 39700	18500 40800	
VMDL VSMS2 (L2A) VMMS	LHD 10 5	★ kg lbs	★1																	26.5R25
									16500 36400	17000 37500	17500 38600	18500 40800	19000 41900	19500 43000	20000 44100	20600 45400	21200 46700			

1) Figures under the star rating denote the maximum load and inflation pressures.

2) For Loader & Dozer Service, Tire Load Limits will depend on a type of the operation. Please refer to page 17.

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	mm	mm inch	inch
29.5R25 Tubeless	VLT	200B	★2	E3	E3A	292	200	1877 73.9	762 30.0	840 33.1	843 33.2	48.0	- -	25.00/3.5
		208A2	MS		DE2	200	137	1877 73.9	762 30.0	840 33.1	830 32.7	48.0		
													L3	
	VJT	216A2	★2	L3	D2A	-	-	1865 73.4	762 30.0	810 31.9	878 34.6	42.0	- -	
		208A2	★1											
	VLTS	200B	★2	E4	E2A-LS	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	773 30.4	849 33.4	835 32.9	60.0	- -	
				L4										D2A
			★2											
	VSDT	216A2	★2	L5	D2A	-	-	1905 75.0	779 30.7	845 33.3	869 34.2	96.0	- -	
		208A2	★1					1903 74.9						
	VSDL		★2	L5	D2A	-	-	1925 75.8	766 30.2	855 33.7	846 33.3	104.0	- -	
			★1											
VSMS2		★2	L5S	D2A	-	-	1908 75.1	790 31.1	857 33.7	879 34.6	104.0	- -		
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	203B	MS	E3	DE2	237	162	1865 73.4	850 33.5	806 31.7	963 37.9	47.5	- -	27.00/3.5 (28.00/3.5)
		214A2		L3		-	-							
	VLTS	203B	MS	E4	DE2	225	154	1868 74.0	858 33.8	827 32.6	938 36.9	60.0	- -	
		214A2		L4		-	-							
29.5R29 Tubeless	VKT		★2	E2	E2A-LS 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	- -	
				L4		D2A	-							
			★2											
	VSDT	218A2	★2	L5	D2A	-	-	1989 78.3	779 30.7	883 34.8	872 34.3	96.0	- -	
		211A2	★1											
	VSDL		★2	L5	D2A	-	-	2008 79.1	776 30.6	900 35.4	856 33.7	104.5	- -	
			★1											
	VMDL		★2	LHD5	L2A	-	-	2006 79.0	770 30.3	883 34.8	873 34.4	104.5	- -	
	VSMS		★2	L5S	D2A	-	-	2008 79.1	773 30.4	912 35.9	829 32.6	104.5	- -	
	VSMS2		★2	L5S	D2A	-	-	2008 79.1	792 31.2	912 35.9	874 34.4	104.5	- -	
VSMS2		★2	LHD5S	L2A	-	-	2006 79.0	793 31.2	892 35.1	870 34.3	104.5	- -		
VMMS		★2	LHD5S	L2A	-	-	1775	704	786	789	95.0	-		

For the TKPH(TMPH) Ratings, please refer to page 11.

Will be discontinued.

Pattern	Application Max.Speed km/h mph	Tire Load Limits at Various Cold Inflation Pressures																	
		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	
VLTL	E/M	★	★2																
VLTS	50	kg	8500	9250	9750	10300	10900	11500	11800	12500	12850	13600	14000						
VSNT	30	lbs	18700	20400	21500	22700	24000	25400	26000	27600	28300	30000	30900						
VLTL	Loader	★	★1																
VJTL	10	kg						15500	16000	17000	17500	18000	19000	19500	20000	20600	21200	22400	
VSNT	5	lbs						34200	35300	37500	38600	39700	41900	43000	44100	45400	46700	49400	
VSDTL																			
VSDL																			
VSMS2																			
29"																			
VTS	Loader	★	★1																
	10	kg						15000	15500	16500	17000								
	5	lbs						33100	34200	36400	37500								
VTS	E/M	★	★2																
VLTS	50	kg	10000	10900	11500	12150	12850	13600	14000	14500	15500								
	30	lbs	22000	24000	25400	26800	28300	30000	30900	32000	34200								
VTS	Loader	★	★1																
VLTS	10	kg						18500	19500	20600	21200								
	5	lbs						40800	43000	45400	46700								
VKT	E/M	★	★2																
VSNT	50	kg	9250	9750	10300	10900	11500	12150	12500	13200	13600	14500	15000						
	30	lbs	20400	21500	22700	24000	25400	26800	27600	29100	30000	32000	33100						
VSNT	Loader	★	★1																
VSDTL	10	kg						16500	17000	18000	18500	19500	20000	20600	21200	22400	23000	23600	
VSDL	5	lbs						36400	37500	39700	40800	43000	44100	45400	46700	49400	50700	52000	
VSMS																			
VSMS2																			
(D2A)																			
VMDL	LHD	★	★1																
VSMS2	10	kg									21200	21800	22400	23600	24300	25000	25750	26500	27250
(L2A)	5	lbs									46700	48100	49400	52000	53600	55100	56800	58400	6000
VMMS																			

29.5R29

775/65R29

875/65R29

29.5R29

1) Figures under the star rating denote the maximum load and inflation pressures.

2) For Loader & Dozer Service, Tire Load Limits will depend on a type of the operation. Please refer to page 17.

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	mm	mm inch	inch
33.25R29 Tubeless	VLT		★2	E3	E2A	349	239	2081 81.9	853 33.6	925 36.4	950 37.4	54.0	- -	27.00/3.5
	VLTS		★2	E4	E2A	254	174	2093 82.4	853 33.6	930 36.6	948 37.3	69.0	- -	
33/65R29 Tubeless	VSDL		★2	L5	D2A	-	-	1927 75.9	843 33.2	853 33.6	930 36.6	90.3	- -	27.00/3.5
33"														
18.00R33 Tubeless	VMTP		★2	E4	E2A E1A	185 229	127 157	1870 73.6	515 20.3	846 33.3	575 22.6	55.0	587 23.1	13.00/2.5
	VELS		★2	E4	E2A E1A	170 211	116 145	1856 73.1	512 20.2	856 33.7	575 22.6	49.0	587 23.1	
	VRQP		★2	E4	E2ALS E2A	122 152	84 104	1890 74.4	515 20.3	876 34.5	575 22.6	64.5	587 23.1	
21.00R33 Tubeless	VMTP		★2	E4	E2A E1A	237 293	162 201	1998 78.7	578 22.8	909 35.8	650 25.6	61.0	701 27.6	15.00/3.0
	VRLS		★2	E4	E2A	227	155	1978 77.9	578 22.8	899 35.4	650 25.6	54.0	701 27.6	
35/65R33 Tubeless	VSNT	225A8	MT	E4	DUH	250 -	171 -	2075 81.7	904 35.6	936 36.9	976 38.4	62.5	- -	28.00/3.5
				L4										
			MS	E4	DE2	250 -	171 -							
				L4										
	★2		D2A											
	VMNT		★4	SH4	U2A	-	-	2081	895	908	999	63.5	-	
	VSNL		★2	L4	D2A	-	-	2075 81.7	880 34.6	936 36.9	981 38.6	62.5	- -	
	VSDT	224A2 217A2	★2	L5	D2A	-	-	2075 81.7	890 35.0	914 36.0	990 39.0	96.0	- -	
			★1											
	VSDL		★2	L5	D2A	-	-	2075 81.7	880 34.6	917 36.1	951 37.4	95.0	- -	
			★1											
	VSMS		★2	L5S	D2A	-	-	2071 81.5	879 34.6	927 36.5	965 38.0	97.0	- -	
VMMS		★2	LHD5S	L2A	-	-	2072	895	907	977	97.0	-		

For the TKPH(TMPH) Ratings, please refer to page 11.

Will be discontinued.

Pattern	Application Max.Speed	Tire Load Limits at Various Cold Inflation Pressures																	Size			
	km/h mph																					
		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		33.25R29		
VLT VLTS	E/M 50 30	★	★2																			
		kg	11200	12150	12850	13600	14000	15000	15500	16500	17000	17500	18500									
		lbs	24700	26800	28300	30000	30900	33100	34200	36400	37500	38600	40800									
VSDL	Loader 10 5	★	★1																	★2		33/65R29
		kg									18000	19000	19500	20600	21200	21800	22400	23000	23600			
		lbs									39700	41900	43000	45400	46700	48100	49400	50700	52000			
33"																						
		kPa psi	450 65	475 69	500 73	525 76	550 80	575 83	600 87	625 91	650 94	675 98	700 102							18.00R33		
VMTP VELS VRQP	E/M 50 30	★	★2																			
		kg	7750	8000	8500	8750	9000	9250	9750	10000	10300	10600	10900									
		lbs	17100	17600	18700	19300	19800	20400	21500	22000	22700	23400	24000									
VMTP VRLS		★	★2																	21.00R33		
		kg	10000	10300	10900	11200	11500	11800	12500	12850	13200	13600	14000									
		lbs	22000	22700	24000	24700	25400	26000	27600	28300	29100	30000	30900									
		kPa psi	500 73	525 76	550 80	575 83	600 87	625 91	650 94	675 98	700 102	725 105	750 109	775 113	800 116					35/65R33		
VSNT (MT)	Underground Trucks 40 25	★	★4																			
		kg	20000	20600	21800	22400	23000	23600	24300	25000	25750	26500	27250	28000	29000							
		lbs	44100	45400	48100	49400	50700	52000	53600	55100	56800	58400	60000	61500	64000							
VSNT (MT)	Underground Trucks 25 15	★																				
		kg	23000	24000	25000	25750	26500	27250	28000	29000	30000											
		lbs	50700	52900	55100	56750	58400	59950	61500	63750	66000											
VMNT	Underground Trucks 40 25	★	★4																			
		kg	20000	20600	21800	22400	23000	23500	24300	25000	25750	26500	27250	28000	29000							
		lbs	44100	45400	48100	49400	50700	52000	53600	55100	56800	58400	60000	61500	64000							
VMNT	Underground Trucks 25 15																					
		kg	27250	28000	29000	30000	30750	31500	32500	33500	34500											
		lbs	60000	61500	64000	66000	68000	69500	71500	74000	76000											
		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 (MS)	E/M 50 30	★	★2																			
		kg	10600	11500	12150	12850	13600	14000	15000	15500	16000	17000	17500									
		lbs	23400	25400	26800	28300	30000	30900	33100	34200	35300	37500	38600									
VSNT VSNL VSDT VSDL VSMS	Loader 10 5	★	★1																	★2		
		kg								19500	20600	21200	22400	23000	23600	25000	25750	26500	27250	28000		
		lbs								43000	45400	46700	49400	50700	52000	55100	56800	58400	60000	61500		
VMMS	10 5	★	★1																	★2		
		kg												27250	28000	29000	30000	30750	31500	32500		
		lbs												60000	61500	64000	66000	68000	69500	71500		

1) Figures under the star rating denote the maximum load and inflation pressures.

2) For Loader & Dozer Service, Tire Load Limits will depend on a type of the operation. Please refer to page 17.

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	mm	mm inch	inch
35"														
21.00R35 Tubeless	VMTP		★2	E4	E2A E1A E3A	237 293 342	162 201 234	2048 80.6	577 22.7	922 36.3	655 25.8	61.0	701 27.6	15.00/3.0
	VELS		★2	E4	E2A E1A	227 281	155 192	2044 80.5	577 22.7	935 36.8	650 25.6	59.0	701 27.6	
24.00R35 Tubeless	VMTP		★2	E4	E2A E1A E3A	314 388 453	215 266 310	2184 86.0	660 26.0	975 38.4	734 28.9	68.0	795 31.3	17.00/3.5
	VRLS		★2	E4	E2A E1A E3A	314 388 453	215 266 310	2175 85.6	660 26.0	980 38.6	734 28.9	59.0	795 31.3	
	VRQP		★2	E4	E2ALS E2A	207 259	142 177	2194 86.4	660 26.0	995 39.2	745 29.3	71.5	795 31.3	
	VMTD		★3	E4	E2A E1A E3A	333 411 480	228 281 328	2194 86.3	660 26.0	1003 39.5	739 29.1	77.0	795 31.3	
	New VRDU		★3	E4	E2A E1A E3A	298 368 430	204 252 295	2179 85.8	660 26.0	993 39.1	745 29.3	70.0	795 31.3	
29.5R35 Tubeless	VRL		★2	E3	- E1A	- 380	- 260	2120 83.5	768 30.2	932 36.7	844 33.2	39.5	- -	25.00/3.5
33.25R35 Tubeless	VRL		★2	E3	- E1A	- 472	- 323	2228 87.7	846 33.3	990 39.0	970 38.2	49.0	- -	27.00/3.5
37.25R35 Tubeless	VLT		★2	E3	E2A E1A	417 569	286 390	2388 94.0	954 37.6	1054 41.5	1063 41.9	59.5	- -	31.00/4.0
39"														
37.5R39 Tubeless	VKT		★2	E2	- E1A	- 696	- 477	2524 99.4	982 38.7	1120 44.1	1080 42.5	51.0	- -	32.00/4.5
40.5/75R39 Tubeless	VLT		★2	E3	E2A E1A	500 682	342 467	2609 102.6	1002 39.4	1157 45.6	1127 44.4	58.5	- -	32.00/4.5
45/65R39 Tubeless	VSDL		★1	L5	D2A	-	-	2580 101.6	1074 42.3	1116 43.9	1221 48.1	116.0	- -	32.00/4.5 (36.00/4.5)
45"														
45/65R45 Tubeless	VSNL		★2	L4	D2A	-	-	2730 107.5	1123 44.2	1190 46.8	1275 50.2	75.0	- -	36.00/4.5
	New VSNL		★3	L4	D2A	-	-	2734 107.6	1123 44.2	1202 47.3	1268 49.9	75.0	- -	
	VSDL		★3	L5	D2A	-	-	2734 107.6	1124 44.3	1200 47.2	1241 48.9	111.5	- -	
			★2											
			★1											

For the TKPH(TMPH) Ratings, please refer to page 11.

Pattern	Application Max.Speed km/h mph	Tire Load Limits at Various Cold Inflation Pressures																Size		
35"																				
		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	800 116		21.00R35	
VMTP VELS	E/M 50 30	★ kg lbs	★2																	
		10300 22700	10600 23400	11200 24700	11500 25400	11800 26000	12150 26800	12850 28300	13200 29100	13600 30000	14000 30900	14500 32000								
VMTP VRLS VRQP		★ kg lbs	★2															24.00R35		
		13200 29100	13600 30000	14000 30900	14500 32000	15500 34200	16000 35300	16500 36400	17000 37500	17500 38600	18000 39700	18500 40800								
VMTD VRDU		★ kg lbs	★3																	
		13200 29100	13600 30000	14000 30900	14500 32000	15500 34200	16000 35300	16500 36400	17000 37500	17500 38600	18000 39700	18500 40800	19000 41900	19000 41900	19500 43000	20000 44100				
		kPa psi	275 40	300 44	325 47	350 51	375 54	400 58	425 62	450 65	475 69	500 73	525 76						29.5R35	
VRL	E/M 50 30	★ kg lbs	★2																	
		10000 22000	10600 23400	11200 24700	11800 26000	12500 27600	13200 29100	13600 30000	14500 32000	15000 33100	15500 34200	16000 35300								
VRL		★ kg lbs	★2															33.25R35		
	12150 26800	12850 28300	14000 30900	14500 32000	15500 34200	16000 35300	17000 37500	17500 38600	18500 40800	19000 41900	20000 44100									
VLT		★ kg lbs	★2																37.25R35	
		14500 32000	15500 34200	16500 36400	17500 38600	18500 40800	19500 43000	20600 45400	21200 46700	22400 49400	23000 50700	23600 52000								
39"																				
VKT	E/M 50 30	★ kg lbs	★2															37.5R39		
		16000 35300	17000 37500	18000 39700	19000 41900	20000 44100	21200 46700	21800 48100	23000 50700	23600 52000	25000 55100	25750 56800								
VLT		★ kg lbs	★2																40.5/75R39	
	18000 39700	19000 41900	20600 45400	21800 48100	22400 49400	23600 52000	25000 55100	25750 56800	27250 60000	28000 61500	29000 64000									
VSDL	Loader 10 5	★ kg lbs	★1															45/65R39		
							33500 74000	34500 76000	36500 80500	37500 82500	40000 88000									
45"																				
		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	800 116	45/65R45
VSNL VSDL	Loader 10 5	★ kg lbs	★1					★2					★3							
		35500 78500	37500 82500	38750 85500	40000 88000	42500 93500	43750 96500	45000 99000	46250 102000	47500 104500	50000 110000	51500 113500	53000 117000	54500 120000	56000 123500	56000 123500	58000 128000	60000 132500		

1) Figures under the star rating denote the maximum load and inflation pressures.

2) For Loader & Dozer Service, Tire Load Limits will depend on a type of the operation. Please refer to page 17.

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	mm	mm inch	inch
49"														
27.00R49 Tubeless	VFT		★2	E2	E2A - E3A	557 - 804	382 - 551	2646 104.2	750 29.5	1207 47.5	860 33.9	44.0	892 35.1	19.50/4.0
	VMTS		★2	E4	E2A E1A E3A	486 600 702	333 411 481	2690 105.9	750 29.5	1230 48.4	860 33.9	64.0	892 35.1	
	VMTP		★2	E4	E2A E1A E3A	440 544 636	301 373 436	2700 106.3	750 29.5	1239 48.8	860 33.9	73.0	892 35.1	
	VRLS		★2	E4	E2A E1A E3A	415 513 600	284 351 411	2687 105.8	750 29.5	1228 48.3	860 33.9	66.5	892 35.1	
	VREP		★2	E4	E2A E1A E3A	457 564 660	313 386 452	2690 105.9	750 29.5	1231 48.4	860 33.9	66.5	892 35.1	
	VRDP		★2	E4	E2A E1A E3A	415 513 600	284 351 411	2711 106.7	750 29.5	1240 48.8	860 33.9	76.0	892 35.1	
	VREV		★2	E4	E2A E1A E3A	415 513 600	284 351 411	2720 107.1	750 29.5	1246 49.1	860 33.9	83.0	892 35.1	
	BRIDGESTONE MASTERCORE VRDU		★2	E4	E2A E1A E3A	423 523 612	290 358 419	2720 107.1	760 29.9	1238 48.7	869 34.2	90.0	897 35.3	
	BRIDGESTONE MASTERCORE New VMTD		★2	E4	E2A E1A E3A	449 555 649	307 380 445	2703 106.4	770 30.3	1220 48.0	872 34.3	83.0	895 35.2	
	51"													
30.00R51 Tubeless	VMT		★2	E3	- - E3A	- - 1065	- - 729	2850 112.2	854 33.6	1294 50.9	950 37.4	45.0	993 39.1	22.00/4.5
	VRLS		★2	E4	E2A E1A E3A	496 603 717	340 413 491	2904 114.3	854 33.6	1311 51.6	963 37.9	74.5	993 39.1	
33.00R51 Tubeless	VMT		★2	E3	- E1A E3A	- 1018 1209	- 697 828	2988 117.6	920 36.2	1338 52.7	1052 41.4	48.0	1074 42.3	24.00/5.0
	VMTP		★2	E4	E2A E1A E3A	591 700 832	405 479 570	3063 120.6	920 36.2	1376 54.2	1052 41.4	89.5	1074 42.3	
	VRLS		★2	E4	E2A E1A E3A	558 679 807	382 465 553	3035 119.5	920 36.2	1371 54.0	1051 41.4	78.5	1074 42.3	
	VRDP		★2	E4	E2A E1A E3A	558 679 807	382 465 553	3061 120.5	920 36.2	1376 54.2	1051 41.4	87.0	1074 42.3	
	VRPS		★2	E4	E2A E1A E3A	558 679 807	382 465 553	3061 120.5	920 36.2	1376 54.2	1051 41.4	87.0	1074 42.3	
	BRIDGESTONE MASTERCORE VREV		★2	E4	E2A E1A E3A	558 679 807	382 465 553	3075 121.1	920 36.2	1389 54.7	1054 41.5	94.0	1088 42.8	
36.00R51 Tubeless	VHS		★2	E2	- - E3A	- - 1485	- - 1017	3108 122.4	1015 40.0	1390 54.7	1163 45.4	44.0	1184 46.6	26.00/5.0
	VRLS		★2	E4	E2A E1A E3A	642 781 927	440 535 635	3204 126.1	1015 40.0	1431 56.3	1153 45.4	86.5	1184 46.6	
50/65R51 Tubeless	VSDL		★2	L5	D2A	-	-	3070 120.9	1278 50.3	1347 53.0	1361 53.6	128.0	- -	40.00/4.5

For the TKPH(TMPH) Ratings, please refer to page 11.
Will be discontinued.

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	800 116		
49"																					
		★	★2																		27.00R49
VFT	E/M	★																			
VMTS	50	kg		19500	20000	20600	21800	22400	23000	23600	25000	25750	26500	27250							
VMTP	30	lbs		43000	44100	45400	48100	49400	50700	52000	55100	56800	58400	60000							
VRLS																					
VREP																					
VRDP																					
VREV																					

1) Figures under the star rating denote the maximum load and inflation pressures.

2) For Loader & Dozer Service, Tire Load Limits will depend on a type of the operation.
Please refer to page 17.

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	mm	mm inch	inch	
57"															
37.00R57 Tubeless	VZTS		★2	E4	E2A E1A E3A	694 845 1003	475 579 687	3422 134.7	1044 41.1	1541 60.7	1190 46.9	87.5	1217 47.9	27.00/6.0 29.00/6.0	
	VRLS		★2	E4	E2A E1A E3A	694 845 1003	475 579 687	3410 134.3	1044 41.1	1535 60.4	1190 46.9	87.5	1217 47.9		
42/90R57 Tubeless	VRDP		★2	E4	E2A E1A E3A	715 870 1033	490 596 708	3456 136.1	1060 41.7	1539 60.6	1210 47.7	97.0	1323 52.1	27.00/6.0 (29.00/6.0)	
	VRPS		★2	E4	E2A E1A E3A	715 870 1033	490 596 708	3456 136.1	1060 41.7	1539 60.6	1210 47.7	97.0	1323 52.1		
40.00R57 Tubeless	VMT		★2	E3	E2A E1A E3A	1204 1463 1739	825 1002 1191	3512 138.3	1108 43.6	1560 61.4	1264 49.8	64.0	1311 51.6	29.00/6.0	
	VZTS		★2	E4	E2A E1A E3A	773 940 1117	529 644 765	3585 141.1	1140 44.9	1606 63.2	1289 50.7	91.5	1311 51.6		
	VELS		★2	E4	E2A E1A E3A	773 940 1117	529 644 765	3562 140.2	1127 44.4	1582 62.3	1291 50.8	91.5	1311 51.6		
	VRDP		★2	E4	E2A E1A E3A	773 940 1117	529 644 765	3572 140.6	1114 43.9	1591 62.6	1264 49.8	97.0	1311 51.6		
	VRPS		★2	E4	E2A E1A E3A	773 940 1117	529 644 765	3572 140.6	1114 43.9	1591 62.6	1264 49.8	97.0	1311 51.6		
	 MASTERCORE	VRWP		★2	E4	E2A E1A E3A	773 940 1117	529 644 765	3578 140.9	1136 44.7	1587 62.5	1308 51.5	97.0		1335 52.6
46/90R57 Tubeless	VZTP		★2	E4	E2A E1A E3A	766 927 1103	525 635 755	3585 141.1	1145 45.1	1591 62.6	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	3572 140.6	1145 45.1	1586 62.4	1299 51.1	97.0	1412 55.6		
	VREV		★2	E4	E2A E1A E3A	876 968 (1065)* 1150 (1265)*	600 663 (729)* 788 (866)*	3572 140.6	1145 45.1	1586 62.4	1299 51.1	97.0	1412 55.6		
	 MASTERCORE	VZTB		★2	E4	E2A E1A E3A	876 1065 1265	600 729 866	3580 140.9	1145 45.1	1567 61.7	1316 51.8	91.5		1432 56.4
	 MASTERCORE	VRWP		★2	E4	E2A E1A E3A	876 1065 1265	600 729 866	3595 141.5	1145 45.1	1571 61.9	1319 51.9	97.0		1432 56.4
55.5/80R57 Tubeless	VSDL			L5	D2A	-	-	3740 147.2	1395 54.9	1634 64.3	1616 63.6	125.5	- -	44.00/6.0	

For the TKPH(TMPH) Ratings, please refer to page 11.

*If you operate with this TKPH(TMPH), consult your Bridgestone Representative.

 Will be discontinued.

Pattern		Application Max.Speed km/h mph	Tire Load Limits at Various Cold Inflation Pressures															Size			
57"																					
			kPa psi	450 65	475 69	500 73	525 76	550 80	575 83	600 87	625 91	650 94	675 98	700 102							
VZTS	E/M	★	★2															37.00R57			
VRLS	50	kg	37500	38750	40000	41250	43750	45000	46250	47500	48750	50000	51500								
	30	lbs	82500	85500	88000	91000	96500	99000	102000	104500	107500	110000	113500								
																				42/90R57	
VRDP		★	★2																		
VRPS		kg	38750	40000	41250	42500	45000	46250	47500	48750	50000	51500	53000								
		lbs	85500	88000	91000	96500	99000	102000	104500	107500	110000	113500	117000					40.00R57			
VMT		★	★2																		
VZTS		kg	42500	45000	46250	48750	50000	51500	53000	54500	56000	58000	60000					40.00R57			
VELS		lbs	93500	99000	102000	107500	110000	113500	117000	120000	123500	128000	132500								
VRDP																					
VRPS																					
BRIDGESTONE / MASTERCORE			★	★2															46/90R57		
VRWP		kg	50000	51500	53000	56000	58000	60000	61500	63000	65000	67000	69000								
		lbs	110000	113500	117000	123500	128000	132500	135500	139000	143500	147500	152000								
VZTP		★	★2															46/90R57			
VRPS		kg	45000	47500	48750	51500	53000	54500	56000	58000	60000	61500	63000								
VREV		lbs	99000	104500	107500	113500	117000	120000	123500	128000	132500	135500	139000								
BRIDGESTONE / MASTERCORE			★	★2															55.5/80R57		
VZTB		kg	51500	54500	56000	58000	60000	63000	65000	67000	69000	71000	73000								
VRWP		lbs	113500	120000	123500	128000	132500	139000	143500	147500	152000	156500	161000								
VSDL	Loader	★																55.5/80R57			
	10	kg					82500	85000	90000	92500	95000	97500	100000	103000	106000						
	5	lbs					182000	187500	198000	203500	209000	214500	220500	227000	233500						

1) Figures under the star rating denote the maximum load and inflation pressures.

2) For Loader & Dozer Service, Tire Load Limits will depend on a type of the operation. Please refer to page 17.

3) For 55.5/80R57 VSDL, recommendation may vary depending on the vehicle. Please consult a Bridgestone Representative for details.

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	mm	mm inch	inch
50/80R57 Tubeless	  VREV		★2	E4	E2A E1A E3A	992 1122 1333	679 769 913	3595 141.5	1218 48.0	1555 61.2	1407 55.4	95.0	1453 57.2	32.00/6.0 (34.00/5.0) (34.00/6.0) (29.00/6.0)
	  VREM		★2	E4	E2A E1A E3A	992 1122 1333	679 769 913	3595 141.5	1218 48.0	1555 61.2	1407 55.4	95.0	1453 57.2	
50/90R57 Tubeless	VRPS		★2	E4	E2A E1A E3A	884 1092 1278	605 748 875	3840 151.2	1311 51.6	1702 67.0	1471 57.9	107.0	1562 61.5	34.00/6.0 (34.00/6.5) (32.00/6.0) (32.00/6.5)
60/80R57 Tubeless	VSDL			L5	D2A	-	-	3952 155.6	1491 58.7	1738 68.4	1755 69.1	118.0	- -	47.00/6.0
63"														
53/80R63 Tubeless	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	36.00/5.0 (38.00/5.0)
	  VREV		★2	E4	E2A E1A E3A	1080 1276 1562	740 874 1070	3814 150.2	1311 51.6	1616 63.6	1557 61.3	110.0	1659 65.3	
	  VZTB		★2	E4	E2A E1A E3A	1143 1350 1626	783 925 1114	3814 150.2	1311 51.6	1616 63.6	1557 61.3	104.0	1659 65.3	
59/80R63 Tubeless	  VRF		★2	E3	E1A E3A	1784 2050	1222 1404	4022 158.3	1467 57.8	1737 68.4	1714 67.5	71.0	1762 69.4	44.00/5.0
	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	795 980 1147							41.00/5.0
					E2A E1A E3A	1228 1515 1773	841 1038 1214							44.00/5.0
	  VRPS		★2	E4	E2A E1A E3A	1228 1515 1773	841 1038 1214	4017 158.1	1467 57.8	1725 67.9	1701 67.0	116.0	1747 68.8	44.00/5.0
					E2A E1A E3A	1160 1431 1675	795 980 1147							41.00/5.0
					E2A E1A E3A	1410 1740 2036	966 1192 1395							44.00/5.0
	  VREV		★2	E4	E2A E1A E3A	1332 1644 1924	913 1126 1318	4021 158.3	1467 57.8	1727 68.0	1701 67.0	118.0	1747 68.8	41.00/5.0
					E2A E1A E3A	1410 1740 2036	966 1192 1395							44.00/5.0
					E2A E1A E3A	1332 1644 1924	913 1126 1318							41.00/5.0

For the TKPH(TMPH) Ratings, please refer to page 11.

 Will be discontinued.

Pattern	Application		Tire Load Limits at Various Cold Inflation Pressures																		Size	
	Max.Speed	km/h mph	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	800 116		
			★	★2																		50/80R57
VREV	E/M 50 30	kg		61500	63000	65000	69000	71000	73000	75000	77500	80000	82500	85000	* 32.00/6.0 Rim (34.00/5.0 Rim) (34.00/6.0 Rim)							
VREM		lbs		135500	139000	143500	152000	156500	161000	165500	171000	176500	182000	187500								
		★	★2																			
		kg		54500	56000	58000	60000	63000	65000	67000	69000	71000	73000	75000	* 29.00/6.0 Rim							
		lbs		120000	123500	128000	132500	139000	143500	147500	152000	156500	161000	165500								
VRPS		★	★2																		50/90R57	
		kg		56000	58000	60000	63000	65000	67000	69000	71000	73000	75000	77500								
		lbs		123500	128000	132500	139000	143500	147500	152000	156500	161000	165500	171000								
VSDL	Loader	★																			60/80R57	
	10	kg	82000	85750	89500	93250	97000	100500	104000	107750	111000	114750	118000									
	5	lbs	180500	189250	197500	205500	213500	221500	229500	237250	245000	252500	260000									
63"																						
VRPS	E/M	★	★2																		53/80R63	
	50	kg		60000	63000	65000	67000	69000	71000	75000	77500	80000	80000	82500								
	30	lbs		132500	139000	143500	147500	152000	156500	165500	171000	176500	176500	182000								
		★	★2																			
VREV		kg		69000	71000	75000	77500	80000	82500	85000	87500	90000	92500	95000								
VZTB		lbs		152000	156500	165500	171000	176500	182000	187500	193000	198500	204000	209500								
VRPS		★	★2																		59/80R63	
		kg		73000	75000	77500	82500	85000	87500	90000	92500	95000	97500	100000	* 44.00/5.0 Rim							
		lbs		161000	165500	171000	182000	187500	193000	198500	204000	209500	215000	220500								
		★	★2																			
		kg		70000	72000	74000	79000	82000	84000	86000	89000	91000	94000	96000	* 41.00/5.0 Rim							
		lbs		154500	158750	164000	174600	179900	185200	190500	195750	201050	206350	211650								
		★	★2																			
VRF		kg		82500	87500	90000	92500	97500	100000	103000	106000	109000	112000	115000	* 44.00/5.0 Rim							
VRPS		lbs		182000	193000	198500	204000	215000	220500	227000	233500	240500	247000	253500								
VREV		★	★2																			
		kg		79000	84000	86000	89000	94000	96000	99000	102000	105000	108000	110000	* 41.00/5.0 Rim							
		lbs		174600	185200	190500	195750	206350	211650	218500	225000	231500	238000	242500								

1) Figures under the star rating denote the maximum load and inflation pressures.

2) For Loader & Dozer Service, Tire Load Limits will depend on a type of the operation. Please refer to page 17.

3) For 60/80R57 VSDL, recommendation may vary depending on the vehicle. Please consult a Bridgestone Representative for details.

3.2 Sand Service

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>	mm <i>inch</i>	mm <i>inch</i>	inch
Sand Service											
20"											
16.00R20 Tubeless *1	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>	10.00V
											10.00W
16.00R20											
25"											
21.00R25 Tubeless	VSJ			E7	1728 <i>68.0</i>	589 <i>23.2</i>	784 <i>30.9</i>	649 <i>25.6</i>	22.5	685 <i>27.0</i>	15.00/3.0

*1 When you mount 16.00R20 VSJ tubeless tire on flat base rim (10.00V), installation of "sealing ring" is recommended.
For further information, please consult a Bridgestone representative.

Pattern	Application	Ply Rating	Max. Speed	Tire Cold Inflation Pressures at Various Load Limits													Size
Sand Service		*It is Recommended that 90% of the below indicated loads per tire is to be applied when used on a dual axle.															
				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	16.00R20
VSJ	Sand	28PR	65km/h 40mph	kPa psi	490 71	540 78	580 84	630 91	680 98	720 105							
			50km/h 30mph	kPa psi	390 57	420 61	450 65	490 71									
			16km/h 10mph	kPa psi	280 41	300 44	320 47	350 51									
25"																	
VSJ	Sand	-	65km/h 40mph	kPa psi							330 48	410 60	490 71	540 78	590 85	630 92	21.00R25
			50km/h 30mph	kPa psi							260 38	320 47	390 57	420 61			
			16km/h 10mph	kPa psi							200 28	230 34	280 41	300 44			

BIAS TIRE

1. Tread Designs

Earthmover Service



RL

R-LUG
E-3



RL's regular tread is designed with a specially compounded rubber to resist cutting and wearing, as well as overheating. Designed for operating on rock, coal and earth surfaces.



VL2

V-LUG2
E-3



VL2 has incorporated all the benefits of RL, while increasing durability and lowering vibrations.



WL

W-LUG
E-3



WL's regular tread with wide lugs has been designed for operations on rock, coal and earth, and it resists cutting and irregular wearing on paved roads.

Grader Service



RG

RIB GRADER
G-1



The RG, ideal for use on the steer axle of graders, features a rib-type pattern which minimizes side slipping and gives good maneuverability.



FG

FAST GRIP
G-2



FG's separate lugs are tapered for greater traction and self-cleaning, resulting in better driving on heavy dirt and in mud.



GL

G-LUG
G-2



The GL features excellent traction and self-cleaning for easy operation in heavy dirt and mud.

Grader Service

**RL**R-LUG
G-3

RL's regular tread is designed with a specially compounded rubber to resist cutting and wearing, as well as overheating. Designed for operating on rock, coal and earth surfaces.

Loader & Dozer Service

**GL**G-LUG
L-2

The GL features excellent traction and self-cleaning for easy operation in heavy dirt and mud.

**FG**FAST GRIP
L-2

FG's separate lugs are tapered for greater traction and self-cleaning, resulting in better driving on heavy dirt and in mud.

Loader & Dozer Service

**RL**R-LUG
L-3

RL's regular tread is designed with a specially compounded rubber to resist cutting and wearing, as well as overheating. Designed for operating on rock, coal and earth surfaces.

**VL2**V-LUG2
L-3

VL2 has incorporated all the benefits of RL, while increasing durability and lowering vibrations.

**RLS**R-LUG S
L-4

RLS's deep specially compounded rubber resists cutting and overheating. Designed for operating on rock, coal and earth surfaces where serviceability and tread cutting are problems.

Loader & Dozer Service



DL

D-LUG
L-5



DL's extra-deep and specially compounded rubber and shoulder protecting ribs ensure maximum serviceability and resistance to cutting. Designed for severe rocky surfaces, and offers excellent traction and stability.



STMS

SMOOTH TREAD-MS
L-5S



STMS's smooth, extra-deep, and specially compounded rubber ensures maximum resistance to cutting and wearing. Designed for severe, rocky surfaces, such as those in underground mines, open pits and quarries.

Compactor Service



RR

ROAD ROLLER
C-1



RR's smooth tread is specially designed for compacting road materials.



AL2

ALLIGATOR2
C-2



AL2's unique tread pattern offers maximum flotation with minimum resistance to rolling. Ideal for use in the desert and on soft ground.

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	24 28
16.00-25	T/L	28
18.00-25	T/L	32
37.25-35	T/L	36

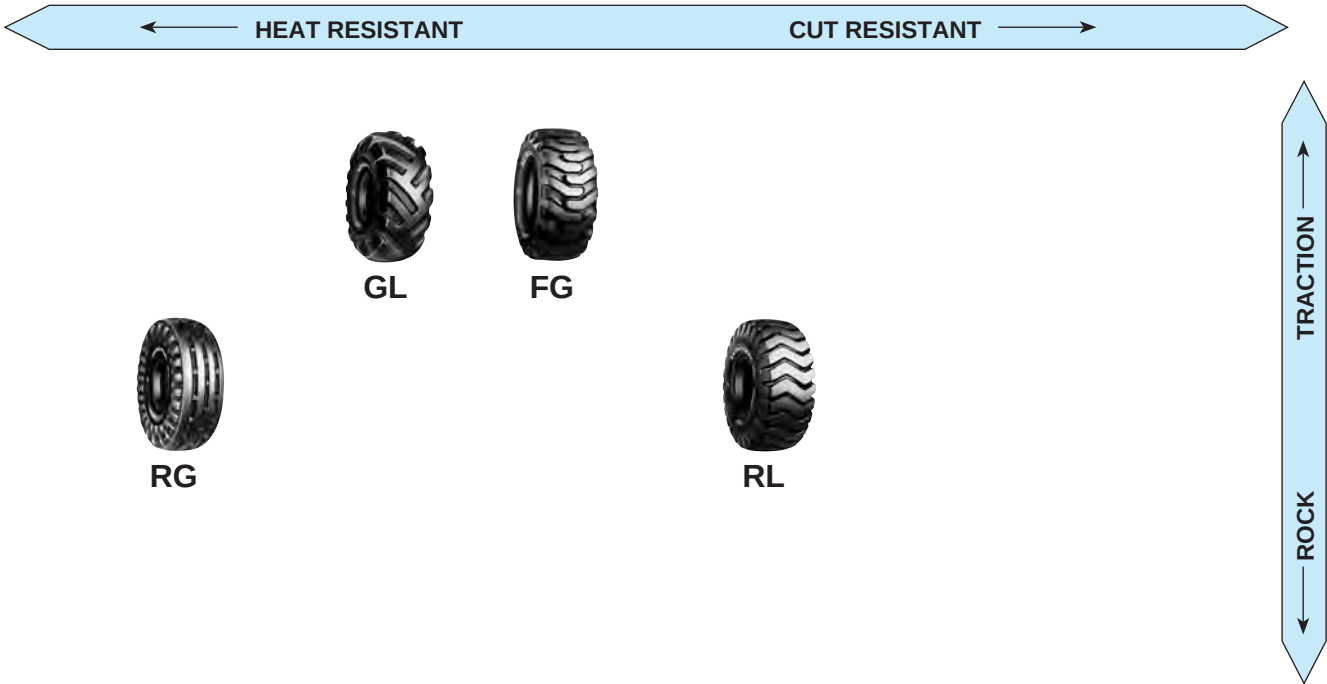
VL2(E3)

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

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

RL(G3)

16.00-24 TG	T/T	16
-------------	-----	----

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

■ Loader & Dozer Service



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

FG(L2)

27x8.50-15	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 10
	T/T	8
15.5/60-18	T/L	8
15.5/70-18	T/L	8
10.00-20	T/T	14
11.00-20	T/T	10 16
42x17-20	T/T	10
17.5/65-20	T/L	10
13.00-24 TG	T/L	12
14.00-24 TG	T/L	12
	T/T	12
16.9-24	T/T	10
18.4-24	T/T	10
17.5-25	T/L	12
20.5-25	T/L	12

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

RL(L3)

12.00-24	T/T	20
14.00-24 TG	T/L	12
16.00-24 TG	T/T	16

VL2(L3)

15.5-25	T/L	12
17.5-25	T/L	16
	T/T	16
20.5-25	T/L	16 20
	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	24
29.5-25	T/L	22 28

RLS(L4)

14.00-24	T/T	20
26.5-25	T/L	26
29.5-25	T/L	28

T/T: Tube Type

T/L: Tubeless Type

TG: For Semi-Drop Center Rim



DL



STMS

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

DL(L5)

17.5-25	T/L	16
20.5-25	T/L	16
23.5-25	T/L	20
26.5-25	T/L	20 26
29.5-25	T/L	28
35/65-33	T/L	42
40/65-39	T/L	56
45/65-45	T/L	58
50/65-51	T/L	62
65/65-57	T/L	62

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

STMS(L5S)

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

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

■ Compactor Service



RR

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

RR(C1)

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

AL2(C2)

23.1-26	T/L	8
	T/T	8

T/T: Tube Type

T/L: Tubeless Type

3. Technical Data

3.1 Earthmover, Grader, Loader & Dozer, Compactor Service

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	mm	mm inch	inch
15"													
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	FG	4	L2	-	-	-	686 27.0	208 8.2	317 12.5	218 8.6	16.5	- -	7JA
9.5/65-15	RR	6	C1	-	-	-	669 26.3	238 9.4	312 12.3	242 9.5	-	- -	7JA
33x12.5-15	FG	8	L2	-	-	-	851 33.5	318 12.5	TBA TBA	TBA TBA	22.5	- -	10.00F
16"													
7.50-16 Tubeless	RR	6	C1	-	-	-	814 32.0	228 9.0	379 14.9	243 9.6	-	250 9.8	6.00GS 6LB
7.50-16							776 30.6	220 8.7	361 14.2	224 8.8			
10.5/80-16 Tubeless	RR	6	C1	-	-	-	804 31.7	272 10.7	375 14.8	285 11.2	-	- -	8LB
12.5/70-16 Tubeless	FG	6	L2	-	-	-	860 33.9	319 12.6	389 15.3	336 13.2	21.0	- -	10LB
		8											
16.5"													
10-16.5 Tubeless	FG	6	L2	-	-	-	771 30.4	268 10.6	353 13.9	278 10.9	19.5	- -	8.25
		8											
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		10											
		8											
18"													
15.5/60-18 Tubeless	FG	8	L2	-	-	-	932 36.7	398 15.7	416 16.4	404 15.9	21.5	- -	W10
15.5/70-18 Tubeless	FG	8	L2	-	-	-	1035 40.7	405 15.9	459 18.1	424 16.7	20.5	- -	W13

Pattern	Application		Tire Load Limits at Various Cold Inflation Pressures																		Size	
	Max.Speed	km/h mph																				
15"																						
			kPa psi	350 51	375 54	400 58	425 62	450 65	475 69	500 73	525 76	550 80	575 84	600 87	625 91	650 94	675 98	700 102	725 105	750 109		7.50-15
RR	Compactor	PR	kg lbs	1700 3740	1750 3860	1850 4080	1900 4180	1950 4300	2060 4540	2120 4680	2180 4800	2240 4940	2300 5080	2300 5080	2360 5200	2430 5360	2500 5520	2575 5680	2575 5680	2650 5840	12	
			kPa psi	180 26	200 29	220 32	240 35	260 38	280 41	300 44	325 47											
FG	Loader	PR	4																		9.5/65-15	
	10 5	kg lbs	695 1530	740 1630	780 1720	820 1805	860 1895															
RR	Compactor	PR	6																			33x12.5-15
	10 5	kg lbs					1100 2430	1155 2550	1205 2560	1255 2770	1315 2900											
			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			
FG	Loader	PR	8																		33x12.5-15	
	10 5	kg lbs					1510 3330	1605 3540	1695 3735	1785 3935	1870 4125	1950 4300	2035 4485	2130 4695								
16"																						
RR	Compactor	PR	6																		7.50-16	
		kg lbs									1405 3100	1470 3240	1535 3380	1600 3530	1675 3690	1750 3860	1820 4010	1890 4170				
RR		PR	6																			10.5/80-16
	kg lbs									1645 3630	1725 3800	1800 3970	1875 4130									
FG	Loader	PR	6								8								12.5/70-16			
	10 5	kg lbs	1050 2315	1145 2525	1240 2735	1330 2930	1410 3110	1495 3295	1570 3460	1645 3625												
16.5"																						
FG	Loader	PR	6										8								10-16.5	
		kg lbs					1140 2515	1215 2680	1285 2830	1350 2975	1415 3120	1475 3250	1540 3395	1610 3550	1685 3715	1750 3860	1820 4010					
FG		PR	8										10									12-16.5
		kg lbs					1470 3240	1565 3450	1655 3650	1740 3835	1820 4010	1905 4200	1980 4365	2075 4575	2170 4785				2540 5600			
18"																						
FG	Loader	PR	8																		15.5/60-18	
		kg lbs	1525 3360	1670 3680	1805 3980	1935 4265	2060 4540	2195 4840														
FG		PR	8																			
	kg lbs	1725 3800	1885 4155	2040 4495	2185 4815	2325 5125	2455 5410															

1) Figures under the star rating denote the maximum load and inflation pressures.

2) For Loader & Dozer Service, Tire Load Limits will depend on a type of the operation. Please refer to page 17.

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	mm	mm inch	inch
20"													
9.00-20	RG	10	G1	-	-	-	1023 40.3	267 10.5	473 18.6	291 11.5	15.0	- -	7.00T
	RR	10	C1	-	-	-	1001 39.4	268 10.6	458 18.0	291 11.5	-	310 12.2	
	GL	14	G2, L2	-	-	-	1023 40.3	255 10.0	478 18.8	276 10.9	21.0	- -	
	WL	14	E3	SCR	-	-	1027 40.4	257 10.1	466 18.3	280 11.0	19.5	310 12.2	
10.00-20	FG	14	L2	-	-	-	1076 42.4	281 11.1	479 18.9	307 12.1	24.0	- -	7.50V
	FGF	16	L2	-	-	-	1057 41.6	276 10.9	478 18.8	302 11.9	18.0	334 13.1	
	RL	14	E3	CRT	42	29	1067 42.0	285 11.2	489 19.3	304 12.0	22.5	- -	
11.00-20	FG	10	L2	-	-	-	1100 43.3	299 11.8	510 20.0	323 12.7	24.5	352 13.9	8.00V
		16											
	RL	14	E3	CRT	49	34	1090 42.9	296 11.7	514 20.2	311 12.2	24.0	344 13.5	
12.00-20	RL	18	E3	SCR	52	36	1138 44.8	316 12.4	513 20.2	331 13.0	25.5	382 15.0	8.50V
14/70-20	RR	12	C1	-	-	-	972 38.3	351 13.8	448 17.6	382 15.0	-	- -	11.00TG
42x17-20	FG	10	L2	-	-	-	1085 42.7	435 17.1	480 18.9	452 17.8	25.5	- -	14.00TG
17.5/65-20 Tubeless	FG	10	L2	-	-	-	1107 43.6	450 17.7	494 19.4	477 18.8	25.0	- -	W14L

For the TKPH(TMPH) Ratings, please refer to page 11.

SCR : Steel Breaker Cut Resistant spec.

CRT : Cut Resistant spec.

Pattern	Application		Tire Load Limits at Various Cold Inflation Pressures																			Size
	Max.Speed																					
		km/h																				
		mph																				
20"																						
		kPa	140	160	180	200	220	240	260	280	300	325	350	375	400	425	450	475	500			
		psi	20	23	26	29	32	35	38	41	44	47	51	54	58	62	65	69	73			
RG GL	Grader 40 25	PR	10																			14
		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			
		kPa	350	375	400	425	450	475	500	525	550	575	600	625	650	675	700					
		psi	51	54	58	62	65	69	73	76	80	83	87	91	94	98	102					
RR	Compactor 10 5	PR	10																			
		kg	2900	3000	3150	3250	3350	3450	3550	3650												
		lbs	6400	6600	6950	7150	7400	7600	7850	8050												
GL	Loader 10 5	PR	14																			
		kg							3150	3250	3350	3450	3450	3550	3630	3710	3790	3875				
		lbs							6950	7150	7400	7600	7600	7850	8000	8190	8360	8550				
		kPa	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																			
		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				
		kPa	475	500	525	550	575	600	625	650	675	700	725	750								
		psi	69	73	76	80	83	87	91	94	98	102	105	109								
FG FGF	Loader 10 5	PR	14																			16
		kg	3550	3650	3750	3875	4000	4125	4125	4250	4345	4440	4530	4620								
		lbs	7850	8050	8250	8550	8800	9100	9100	9350	9580	9790	9990	10180								
		kPa	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																			
		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						
		kPa	450	475	500	525	550	575	600	625	650	675	700									
		psi	65	69	73	76	80	83	87	91	94	98	102									
FG	Loader 10 5	PR	10																			16
		kg	3750	3875	4000	4125	4250	4250	4375	4500	4675	4780	4880									
		lbs	8300	8550	8800	9100	9350	9350	9650	9900	10300	10540	10740									
		kPa	200	220	240	260	280	300	325	350	375	400	425	450	475							
		psi	29	32	35	38	41	44	47	51	54	58	62	65	69							
RL	E/M 50 30	PR	14																			
		kg	1570	1660	1750	1830	1910	1990	2085	2180	2270	2355	2440	2525	2605							
		lbs	3460	3660	3860	4030	4210	4390	4600	4810	5000	5190	5380	5570	5740							
		kPa	275	300	325	350	375	400	425	450	475	500										
		psi	40	44	47	51	54	58	62	65	69	73										
RL	E/M 50 30	PR	18																			
		kg	2180	2300	2430	2500	2650	2725	2800	2900	3000	3075										
		lbs	4800	5080	5360	5520	5840	6000	6150	6400	6600	6800										
		kPa	240	260	280	300	325	350	375	400	425	450										
		psi	35	38	41	44	47	51	54	58	62	65										
RR	Compactor 10 5	PR	12																			
		kg	2775	2905	3035	3160	3310	3460	3600	3740	3875	4005										
		lbs	6100	6400	6700	6950	7300	7650	7950	8250	8550	8850										
		kPa	120	140	160	180	200	220	240	260	280	300										
		psi	17	20	23	26	29	32	35	38	41	44										
FG	Loader 10 5	PR	10																			
		kg						2740	2915	3080	3240	3395	3545	3690								
		lbs						6040	6425	6790	7140	7485	7815	8135								
FG		PR	10																			
		kg	2130	2330	2520	2700	2875	3040	3195													
		lbs	4695	5135	5555	5950	6340	6700	7045													

1) Figures under the star rating denote the maximum load and inflation pressures.

2) For Loader & Dozer Service, Tire Load Limits will depend on a type of the operation. Please refer to page 17.

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	mm	mm inch	inch
24"													
12.00-24	RL	20	E3	DE2	66	45	1250	330	584	348	24.5	-	8.5
			L3		-	-	49.2	13.0	23.0	13.7		-	8.50V
	STMS	16	L5S	D2A	-	-	1275	321	606	339	55.0	-	8.5
		20										-	50.2
13.00-24 TG Tubeless	FG	12	G2	G2A	-	-	1286	340	588	374	28.0	-	8.00TG (10.00VA)
G2, L2			DG2	50.6									
13.00-24 TG		10	G2	G2A	-	-							
14.00-24	RL	24	E3	E2A	109	75	1366	387	627	400	28.0	450	10.00W
		28										17.7	
	RLS	20	L4	D2A	-	-	1407	390	646	440	48.0	450	
	STMS	20	L5S	D2A	-	-	55.4	15.4	25.4	17.3	17.7	-	
14.00-24 TG Tubeless	FG	14	G2	G2A	-	-	1336	365	597	406	31.0	-	8.00TG (10.00VA)
		12	G2, L2	DG2	-	-	1336	365	610	392			8.00TG 10.00VA
	RL	12	L3	D2A	-	-	1366	387	614	410	28.0	450	10.00VA (8.00TG)
14.00-24 TG	FG	12	G2	G2A	-	-	1336	365	610	392	31.0	-	8.00TG (10.00VA)
		16						14.4	24.0	15.4			10.00VA (8.00TG)
		12	L2	D2A			1330	390	610	417			10.00VA
16.00-24 TG	FG	16	G2	G2A	-	-	1453	438	638	500	32.5	-	10.00VA
	RL	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

For the TKPH(TMPH) Ratings, please refer to page 11.

Pattern	Application Max.Speed km/h mph	Tire Load Limits at Various Cold Inflation Pressures																Size		
24"																				
		kPa psi	475 69	500 73	525 76	550 80													12.00-24	
RL	E/M 50 30	PR kg lbs	20																	
			3350 7400	3450 7600	3550 7850	3650 8050														
		kPa psi	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	13.00-24 TG		
RL STMS	Loader 10 5	PR kg lbs	16																20	
			5000 11000	5150 11400	5300 11700	5450 12000	5600 12300	5600 12300	5800 12800	6000 13200	6150 13600	6270 13790	6410 14100	6540 14390	6660 14700	6780 14900	6900 15200			
		kPa psi	125 18	150 22	175 25	200 29	225 33	250 36	275 40	300 44	325 47	350 51	375 54	400 58	425 62	450 65		14.00-24		
FG	Grader 40 25	PR kg lbs	10								12									
			1700 3740	1900 4180	2060 4540	2240 4940	2360 5200	2500 5520	2650 5840	2725 6000										
FG	Loader 10 5	PR kg lbs											12							14.00-24 TG
													4500 9900	4750 10500	5000 11000	5150 11400	5300 11700	5600 12300		
		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		
RL	E/M 50 30	PR kg lbs	24															28		14.00-24
			3350 7400	3550 7850	3750 8250	3875 8550	4000 8800	4250 9350	4375 9650	4500 9900	4625 10200	4750 10500	4875 10700	5000 11000	5150 11400	5300 11700	5450 12000	5600 12300		
		kPa psi	575 83	600 87	625 91	650 94	675 98	700 102												
RLS STMS	Loader 10 5	PR kg lbs	20															14.00-24 TG		
			7500 16500	7750 17100	8000 17600	8250 18200	8250 18200	8500 18700												
		kPa psi	125 18	150 22	175 25	200 29	225 33	250 36	275 40	300 44	325 47	350 51	375 54	400 58	425 62					
FG	Grader 40 25	PR kg lbs	12								14				16				14.00-24 TG	
			2060 4540	2300 5080	2500 5520	2650 5840	2800 6150	3075 6800	3250 7150	3450 7600	3550 7850	3650 8050								
FG RL	Loader 10 5	PR kg lbs													12					
															6300 13900					
FG RL	Grader 40 25	PR kg lbs	16															16.00-24 TG		
			2650 5840	3000 6600	3250 7150	3450 7600	3650 8050	4000 8800	4250 9350	4500 9900										
RL	Loader 10 5	PR kg lbs											16							
													7100 15700	7300 16100	7750 17100	8000 17600	8250 18200			
		kPa psi	120 17	140 20	160 23	180 26	200 29	220 32	240 35											16.9-24
FG	Loader 10 5	PR kg lbs	10																	
			2300 5070	2520 5555	2725 6005	2920 6435	3105 6845	3280 7230	3455 7615											
FG		PR kg lbs	10															18.4-24		
			2765 6095	3025 6670	3270 7210	3505 7725	3725 8210	3940 8685												

1) Figures under the star rating denote the maximum load and inflation pressures.

2) For Loader & Dozer Service, Tire Load Limits will depend on a type of the operation. Please refer to page 17.

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				mm
25"														
15.5-25 Tubeless	VL2	12	L3	D2A	-	-	1284 50.6	410 15.6	568 22.4	448 17.6	27.0	- -	12.00/1.3	
16.00-25 Tubeless	RL	28	E3	E2A	139	95	1478 58.2	432 17.0	671 26.4	459 18.1	33.5	513 20.2	11.25/2.0	
17.5-25 Tubeless	FG	12	G2, L2	DG2	-	-	1345 53.0	450 17.7	588 23.1	480 18.9	27.5	- -	14.00/1.5	
		16												
	VL2	16	L3	D2A	-	-	1348 53.1	444 17.5	597 23.5	470 18.5	30.5	- -		
	DL	16	L5	D2A	-	-	1410 55.5	445 17.5	656 25.8	470 18.5	69.5	- -		
	STMS	20	L5S	D2A	-	-	1385 54.5	450 17.7	645 25.4	462 18.2	69.0	- -		
D2Z				- -										
17.5-25	VL2	16	L3	D2A	-	-	1348 53.1	444 17.5	597 23.5	470 18.5	30.5	- -		
18.00-25 Tubeless	RL	32	E3	E2A	173	118	1607 63.3	508 20.0	727 28.6	572 22.5	37.5	587 23.1	13.00/2.5	
		STMS	24	L5S	D2A	-	-	1675 65.9	520 20.5	762 30.0	550 21.7	84.0		- -
			28											
			32											
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	16	L5	D2A	-	-	1558 61.3	548 21.6	714 28.1	570 22.4	79.5		- -
20.5-25	VL2	16	L3	D2A	-	-	1494 58.8	542 21.3	641 25.2	587 23.1	33.0	- -		
		20												

For the TKPH(TMPH) Ratings, please refer to page 11.

Pattern	Application Max.Speed		Tire Load Limits at Various Cold Inflation Pressures																Size	
	km/h	mph																		
25"																				
			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	15.5-25	
VL2	Loader	PR	12																	
	10 5	kg lbs	4000 8800	4250 9350	4500 9900	4750 10500	4875 10700	5150 11400	5300 11700	5600 12300										
RL	E/M	PR	28																16.00-25	
	50 30	kg lbs				4375 9650	4625 10200	4875 10700	5000 11000	5300 11700	5450 12000	5600 12300	5800 12800	6000 13200	6300 13900	6500 14300	6500 14300	6700 14800		
			kPa psi	125 18	150 22	175 25	200 29	225 33	250 36	275 40										
FG	Grader	PR	12								16								17.5-25	
	40 25	kg lbs	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.																		
			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 VL2 DL STMS	Loader	PR	12								16				20					
	10 5	kg lbs	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	PR	32																18.00-25	
	50 30	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		
			kPa psi	375 54	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
STMS	Loader	PR	24								28				32				20.5-25	
	10 5	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		
			kPa psi	125 18	150 22	175 25	200 29	225 33	250 36	275 40	300 44	325 47	350 51	375 54	400 58	425 62	450 65			
VL2	E/M	PR	16								20								20.5-25	
	50 30	kg lbs				4125 9100	4500 9900	4875 10700	5150 11400	5450 12000	5800 12800	6000 13200								
FG	Grader	PR	12																	
	40 25	kg lbs	2800 6150	3150 6950	3550 7850															
		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.																		
FG VL2 DL	Loader	PR	12								16				20					
	10 5	kg lbs						6300 13900	6700 14800	7100 15700	7500 16500	7750 17100	8250 18200	8500 18700	8750 19300	9250 20400	9500 20900			

1) Figures under the star rating denote the maximum load and inflation pressures.

2) For Loader & Dozer Service, Tire Load Limits will depend on a type of the operation. Please refer to page 17.

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		mm	mm inch	inch
23.5-25 Tubeless	VL2	16		E3	DE2	107	73	1607	618	682	688	43.0	-	19.50/2.5	
		20		L3		-	-	63.3	24.3	26.9	27.1	-			
		24													
		20		D2A											
	DL	20		L5	D2A	-	-	1680	616	770	652	88.0	-		
								66.1	24.3	30.3	25.7		-		
23.5-25	VL2	16		L3	D2A	-	-	1607	618	682	688	43.0	-		
		20											-		
		24													
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	28.9	-			
		26													
			16		D2A										
			24												
	RLS	26		L4	D2A	-	-	1785	707	792	736	67.0	-		
								70.3	27.8	31.2	29.0		-		
	DL	20		L5	D2A	-	-	1798	694	809	735	97.0	-		
		26													
		STMS	32		L5S	D2A	-	-	1798	680	827	719	95.0		-
	36														
26.5-25	VL2	24		L3	D2A	-	-	1738	683	745	734	44.0	-		
								68.4	26.9	29.3	28.9		-		
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	32.8	-			
	RLS	28		L4	D2A	-	-	1912	784	813	805	74.0	-		
								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		-		
26"															
23.1-26 Tubeless	AL2	8		C2	-	-	-	1490	595	654	618	19.0	-	DW20A DW20B	
								58.7	23.4	25.7	24.3		-		
23.1-26	AL2	8		C2	-	-	-	1490	595	654	618	19.0	-		
								58.7	23.4	25.7	24.3		-		
29"															
29.5-29 Tubeless	STMS	34	L5S	D2A	-	-	2009	777	931	792	103.0	-	-	25.00/3.5	
				D2Z											
33"															
35/65-33 Tubeless	DL	42		L5	D2V	-	-	2075	896	979	945	97.0	-	28.00/3.5	
								81.7	35.3	38.5	37.2	97.0	-		

For the TKPH(TMPH) Ratings, please refer to page 11.

Pattern	Application		Tire Load Limits at Various Cold Inflation Pressures																			Size
	Max.Speed	km/h mph																				
			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 DL	Loader 10 5	PR kg lbs	16 20 24 8000 8500 9000 9500 10000 10600 10900 11200 11800 12150 12500 17600 18700 19800 20900 22000 23400 24000 24700 26000 26800 26700																			23.5-25
VL2	E/M 50 30	PR kg lbs	16 20 24 5300 5800 6150 6500 6900 7300 7750 8000 11700 12800 13600 14300 15200 16100 17100 17600																			
VL2		PR kg lbs	20 24 26 6700 7300 7750 8250 8750 9250 9500 14800 16100 17100 18200 19300 20400 20900																			
VL2 RLS DL STMS	Loader 10 5	PR kg lbs	16 20 24 26 32 36 11500 12150 12500 13200 13600 14000 14500 15000 15500 16000 16500 17000 18600 25400 26800 27600 29100 30000 30900 32000 33100 34200 35300 36480 37500 41000																			26.5-25
VL2	E/M 50 30	PR kg lbs	22 28 8000 8750 9250 10000 10600 10900 11500 17600 19300 20400 22000 23400 24000 25400																			
VL2 RLS DL	Loader 10 5	PR kg lbs	22 28 12150 12850 13600 14500 15000 16000 16500 17000 17500 26800 28300 30000 32000 33100 35300 36480 37500 38600																			
26"																						23.1-26
AL2	Compactor 40 25	PR kg lbs	8 2850 6285																			
29"																						
			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						
STMS	Loader 10 5	PR kg lbs	34 12850 14000 14500 15500 16000 17000 17500 18000 19000 19500 20000 20600 21200 28300 30900 32000 34200 35300 37500 38600 39700 41900 43000 44100 45400 46700																			29.5-29
33"																						
			kPa psi	375 54	400 58	425 62	450 65	475 69	500 73	525 76	550 80	575 83	600 87	625 91								
DL	Loader 10 5	PR kg lbs	42 19500 20000 21200 21800 22400 23000 23600 24300 25000 25750 26500 43000 44100 46700 48100 49400 50700 52000 53600 55100 56800 58400																			35/65-33

1) Figures under the star rating denote the maximum load and inflation pressures.

2) For Loader & Dozer Service, Tire Load Limits will depend on a type of the operation. Please refer to page 17.

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	mm	mm inch	inch
35"													
37.25-35 Tubeless	RL	36	E3	E1A	358	245	2403 94.6	947 37.3	1051 41.4	979 38.5	51.5	- -	31.00/4.0
39"													
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
45"													
45/65-45 Tubeless	DL	58	L5	D2V	-	-	2730 107.5	1146 45.1	1261 49.6	1185 46.6	116.0	- -	36.00/4.5
51"													
50/65-51 Tubeless	DL	62	L5	D2A	-	-	3070 120.9	1260 49.6	1412 55.6	1300 51.2	127.5	-	40.00/4.5
				D2V								-	
57"													
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, please refer to page 11.
Will be discontinued.

Pattern	Application Max.Speed		Tire Load Limits at Various Cold Inflation Pressures																		Size	
	km/h mph																					
35"																						
			kPa psi	175 25	200 29	225 33	250 36	275 40	300 44	325 47												37.25-35
RL	E/M 50 30	PR kg lbs	36																			
			13600 30000	14500 32000	15500 34200	16500 36400	17500 38600	18500 40800	19500 43000													
39"																						
			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	675 98	700 102	40/65-39
DL	Loader 10 5	PR kg lbs	56																			
			22400 49400	23600 52000	25000 55100	25750 56800	27250 60000	28000 61500	29000 64000	30000 66000	30750 68000	31500 69500	32500 71500	34000 75000	35000 77100	36500 80500	37500 82700	38750 85400	40000 88200	41250 90900		
45"																						
DL	Loader 10 5	PR kg lbs	58																		45/65-45	
			30000 66000	31500 69500	32500 71500	34500 76000	35500 78500	37500 82500	38750 85500	40000 88000	41250 91000	42500 93500	43750 96500	45000 99000	46250 102000	47250 104200	48250 106400	49250 108600	50000 110000			
51"																						
DL	Loader 10 5	PR kg lbs	62																		50/65-51	
			37500 82500	40000 88000	42500 93500	43750 96500	46250 102000	47500 104500	48750 107500	51500 113500	53000 117000	54500 120000	56000 123500	58000 128000	58000 128000	60000 132500	61500 135500	63000 139000				
57"																						
DL	Loader 10 5	PR kg lbs	62																		65/65-57	
			67000 147500	71000 156500	73000 161000	77500 171000	80000 176500	82500 182000	87500 193000	90000 198500	92500 204000	95000 209500										

1) Figures under the star rating denote the maximum load and inflation pressures.

2) For Loader & Dozer Service, Tire Load Limits will depend on a type of the operation. Please refer to page 17.



Mobile Crane, Logging



RADIAL TIRE

1. Tread Designs

Mobile Crane Service (High-Speed)



VHS

V-STEEL HIGHWAY SERVICE



Newly developed technology assures excellent performance, especially for mobile crane service (on-road conditions). New tread rubber achieves extra-long life and ideal tread pattern (closed shoulder, variable pitches) reduces noise level. Suitable for all-terrain cranes.

❖ DOT approved



VSW

V-STEEL SNOW WEDGE



VSW is the first of its kind in snow radials, especially developed for machines used in snow removal work. This tire has excellent traction from a standing start and during acceleration as well as superior cornering and braking performance, especially on icy, packed or soft snow surfaces. VSW provides all-season service, requiring no replacement during summer and offers exceptional ability to be retreaded.

❖ DOT approved



VHB

V-STEEL H-BLOCK



Designed for all-terrain cranes. Featuring long tread life thanks to a wear-resistant tread rubber compound. Great flotation and traction due to the unique tread pattern. And reliable durability and high resistance to cutting and heat build-up.

❖ DOT approved

Mobile Crane Service (High-Speed)



VHS2

V-STEEL HIGHWAY SERVICE2



Bridgestone's newest addition to their range of premium Off-the-road crane tyres is built to deliver longest lasting heavy-duty performance. Combining outstanding durability and long wear life with excellent on-road performance, this advanced all-terrain crane tyre has all the ingredients to lift both your payload and your business to new heights.

❖ DOT approved



VGT

V-STEEL G-TRACTION



Block pattern with normal-depth tread suitable for higher speeds and longer transport operations on paved or packed roads with strong resistance to heat build-up and irregular wear. On rough terrain, this tire offers strong traction and flotation. Especially applicable to fire engines at airports or all-terrain cranes.

❖ DOT approved



Mining and Logging Service

VSB

V-STEEL S-BLOCK
ML-2



VSB exhibits excellent traction and maneuverability. Suitable for both gravel and hard packed surfaces like paved roads. Designed for heavy-duty trucks and trailers.

❖ DOT approved

2. Application

■ Mobile Crane Service (High-Speed)



VGT



VSW VHS VHS2

VHB

↑
TRACTION

Size	Type
------	------

VGT

170E 445/80 R 25	T/L
------------------	-----

VHB

170E 385/95 R 24	T/T
186E 505/95 R 25	T/L

Size	Type
------	------

VHS

170E 385/95 R 24	T/T
170E 385/95 R 25	T/L
170F 385/95 R 25	T/L
177E 445/95 R 25	T/L
174F 445/95 R 25	T/L
186E 505/95 R 25	T/L
179E 525/80 R 25	T/L
176F 525/80 R 25	T/L

VHS2

174F 445/95 R 25	T/L
------------------	-----

Size	Type
------	------

*VSW

170E 385/95 R 25	T/L
------------------	-----

*VSW is especially designed for snow surface operations.

■ Mining and Logging Service



VSB

1400 R 25	T/L
-----------	-----

T/T: Tube Type

T/L: Tubeless Type

3.1 Mobile Crane Service (High-Speed)

Tire Size	Pattern	LI/SS	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>			
Mobile Crane Service (High-Speed)										
24"										
385/95R24	VHS	170E	Mobile Crane Service	1356 <i>53.4</i>	384 <i>15.1</i>	626 <i>24.6</i>	422 <i>16.6</i>	23.0	- -	10.00W
	VHB	170E	Mobile Crane Service	1357 <i>53.4</i>	383 <i>15.1</i>	630 <i>24.8</i>	410 <i>16.1</i>	23.5	- -	
25"										
385/95R25 Tubeless	VHS	170E	Mobile Crane Service	1356 <i>53.4</i>	384 <i>15.1</i>	626 <i>24.6</i>	422 <i>16.6</i>	23.0	- -	10.00/1.5
		170F							- -	
	VSW	170E	Mobile Crane Service	1355 <i>53.3</i>	394 <i>15.5</i>	631 <i>24.8</i>	427 <i>16.8</i>	23.5	- -	
445/95R25 Tubeless	VHS	177E 174F	Mobile Crane Service	1484 <i>58.4</i>	435 <i>17.1</i>	684 <i>26.9</i>	480 <i>18.9</i>	25.5	- -	11.25/2.0
	VHS2	174F	Mobile Crane Service	1484 <i>58.4</i>	435 <i>17.3</i>	684 <i>26.9</i>	480 <i>18.9</i>	25.5	- -	
445/80R25 Tubeless	VGT	170E	Mobile Crane Service	1339 <i>52.7</i>	440 <i>17.3</i>	610 <i>24.0</i>	485 <i>19.1</i>	24.0	- -	14.00/1.5
505/95R25 Tubeless	VHB	186E	Mobile Crane Service	1610 <i>63.4</i>	515 <i>20.3</i>	778 <i>30.6</i>	565 <i>22.2</i>	26.0	- -	13.00/2.5
	VHS	186E	Mobile Crane Service	1590 <i>62.6</i>	510 <i>20.1</i>	727 <i>28.6</i>	565 <i>22.2</i>	25.5	- -	
525/80R25 Tubeless	VHS	179E	Mobile Crane Service	1480 <i>58.3</i>	537 <i>21.1</i>	677 <i>26.7</i>	578 <i>22.8</i>	31.0	- -	17.00/2.0
		176F							- -	

Pattern	Application	Inflation Pressure	Tire Load Limits at Various Speeds															Size
Mobile Crane Service (High-Speed)			*Consult a Rim Manufacturer when inflation pressure exceeds 800kPa (116psi).															
24"																		
		kPa psi	km/h mph	0 Static	Creep Creep	5 3	10 5	15 9	20 12	30 19	40 25	50 31	60 37	70 43	80 50	90 56	100 62	385/95R24
VHS VHB (170E)	High-Speed	900 131	kg lbs	17700 39000	14400 31700	12700 28100	11000 24300	9850 21700	8900 19600	7800 17200	7450 16400	7100 15600	6700 14800	6000 13200	4925 10800	4200 9250	3600 7950	
25"																		
VHS VSW (170E)	High-Speed	900 131	kg lbs	17700 39000	14400 31700	12700 28100	11000 24300	9850 21700	8900 19600	7800 17200	7450 16400	7100 15600	6700 14800	6000 13200	4925 10800	4200 9250	3600 7950	385/95R25
VHS (170F)	High-Speed	900 131	kg lbs	17700 39000	14400 31700	12700 28000	11000 24200	9900 21800	9000 19800	7500 16500	6900 15200	6700 14800	6600 14500	6300 13900	6000 13200	5640 12400	5100 11200	445/95R25
VHS (177E)	High-Speed	900 131	kg lbs	21500 47500	17500 38500	15500 34200	13400 29600	12000 26400	10800 23800	9500 20900	9050 20000	8600 19000	8100 18000	7300 16100	6000 13200	5100 11300	4375 9650	445/95R25
VHS VHS2 (174F)	High-Speed	900 131	kg lbs	21500 47400	17600 38800	15500 34100	13500 29700	11100 24400	10000 22200	8400 18500	7700 17000	7500 16500	7400 16200	7050 15500	6700 14800	6300 13900	5700 12600	
VGT	High-Speed	700 102	kg lbs	17700 39000	14400 31700	12700 28100	11000 24300	9850 21700	8900 19600	7800 17200	7450 16400	7100 15600	6700 14800	6000 13200	4925 10800	4200 9250	3600 7950	445/80R25
VHB VHS	High-Speed	900 131	kg lbs	28000 61800	22700 50200	20200 44500	17500 38500	15600 34300	14100 31000	12300 27200	11800 26000	11200 24700	10600 23400	9500 20900	7800 17200	6650 14700	5700 12600	505/95R25
VHS (179E)	High-Speed	700 102	kg lbs	22900 50400	18600 40900	16500 36300	14300 31400	12700 28000	11500 25300	10100 22200	9600 21200	9150 20200	8700 19100	7750 17100	6350 14000	5400 12000	4650 10200	525/80R25
VHS (176F)	High-Speed	700 102	kg lbs	21500 47200	17600 38700	15500 34100	13500 29600	11700 25800	10600 23500	8900 19600	8200 18000	7950 17500	7800 17200	7450 16400	7100 15600	6700 14700	6050 13300	

□ Maximum load at mentioned speed symbol.

3.2 Mining and Logging Service

Tire Size	Pattern	LI/SS	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	mm	mm inch	inch
Mining and Logging Service										
25"										
14.00R25 Tubeless	VSB		ML2	1365 53.7	387 15.2	628 24.7	433 17.0	21.0	450 17.7	10.00

4. The Variation in Load Carrying Capacity with Operating Speed for Mobile Crane

Speed	Maximum Load	
	Speed Symbol: E	Speed Symbol: F
30 km/h (20 mph)	+30%	+25%
40 km/h (25 mph)	+24%	+15%
50 km/h (30 mph)	+18%	+12%
60 km/h (35 mph)	+12%	+10%
70 km/h (43 mph)	0%	+5%
80 km/h (50 mph)	-18%	0%
90 km/h (55 mph)	-30%	-6%
100 km/h (62 mph)	-40%	-15%

Reference speed for calculating load variance

This table doesn't secure to prevent the risk derived from heat buildup.

Pattern	Application Max.Speed	Tire Load Limits at Various Cold Inflation Pressures													Size	
	km/h mph															
Mining and Logging Service 25"																
		kPa psi		450 65	480 70	520 75	550 80	590 85	620 90	660 95	690 100	720 105	760 110	790 115		
VSB	Mining and Logging 90 55	Load Range	J L													14.00R25
		Dual	kg lbs	3610 7960	3780 8340	3950 8710	4110 9070	4270 9410	4420 9750	4580 10090	4750 10500	4880 10800	5010 11100	5150 11400		
			Single	kg lbs	3700 8150	3910 8620	4110 9070	4310 9500	4500 9930	4690 10340	4870 10730	5150 11400	5300 11700	5450 12000	5600 12300	



Industrial



RADIAL TIRE

1. Tread Designs

Industrial Service



VRLS

V-STEEL R-LUG S



Designed for container handling equipment, such as straddle carriers. Features great resistance to heat build-up for high speed operations.



VCH

V-STEEL CONTAINER HANDLER



Features extra-long life, thanks to newly developed tread compound and smooth wear due to optimized contact pressure. Specially designed for container handling equipment, such as straddle carriers, container stackers, etc.



VC HS

V-STEEL CONTAINER HANDLER SS



Newly developed all-steel radial casings improve operational stability and safety. The unique pattern is designed for longer tread life by preventing irregular wearing. Specially designed for container handling equipment, such as container stackers.



VPCS

V-STEEL PORT CONTAINER STRADDLE



The VPCS has excellent tire life. Thanks to a newly developed tread pattern and improved casing, specially optimized for Straddle Carrier and Shuttle Carrier operation.



VCHP

V-STEEL CONTAINER HANDLER PREMIUM



The VCHP has an exceptionally longer tread life with superior driving comfort and enhanced overall driving efficiency. Specially optimized for Straddle Carrier operation.



VCHD

V-STEEL CONTAINER HANDLER DEEP



Features extra-long life, thanks to newly developed tread compound and smooth wear due to optimized contact pressure. Specially designed for container handling equipment, such as straddle carriers, container stackers, etc.



VELS

V-STEEL E-LUG S



Designed for container handling equipment. Features great resistance to heat build-up for high speed operations.



VHB

V-STEEL H-BLOCK



Features exceptional casing durability. Specially designed for mobile harbor cranes and towing tractors.



VCLG

V-STEEL CONTAINER LIFTER G-SMOOTH

New



★3 Rated Smooth Tires for Reach Stackers. Delivers stronger heat-resistance, with improved robustness and extended tire life.



VSMS

V-STEEL SMOOTH TREAD-MS



Smooth extra-deep tread with a reinforced all-steel radial casing. For container handling equipment especially on abrasive concrete surfaces.



VSDL

V-STEEL D-LUG



Extra-deep tread with a reinforced all-steel radial casing for heavy reach stackers.



VPCT

V-STEEL PORT CONTAINER TRANSPORTER



The VPCT is Bridgestone's first tire specifically designed for terminal tractors. With outstanding durability and a unique tread structure that ensures longer tire life, it helps operations run productively.

2. Application

Industrial Service

Lift trucks, Empty container handlers	Loaded container handlers	Straddle carriers	Harbor cranes	Automated guided vehicles	Terminal Tractor
 VCH VCHS	 VCHS VELS VSDL VSMS VCLG	 VRLS VCH VCHD VCHP VPCS	 VHB	 VHB VCHS	 VPCT

Size	Type
------	------

VHB

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

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	
------------	-----	--

VCHS

10.00 R 20	T/T	
12.00 R 20	T/T	
12.00 R 24	T/T	
14.00 R 24	T/T	★3
14.00 R 24 TG	T/L	★3
18.00 R 25	T/L	★3
18.00 R 33	T/L	★3

VCLG

New 18.00 R 25	T/L	★3
-----------------------	-----	----

Size	Type
------	------

VELS

18.00 R 33	T/L	★3
------------	-----	----

VRLS

16.00 R 25	T/L	★2
------------	-----	----

VSDL

35/65 R 33	T/L	★2
------------	-----	----

VSMS

18.00 R 25	T/L	★2
------------	-----	----

VCHP

450/95 R 25	T/L	
-------------	-----	--

VPCS

450/95 R 25	T/L	
480/95 R 25	T/L	

VPCT

310/80 R 22.5	T/L	
---------------	-----	--

T/T: Tube Type

T/L: Tubeless Type

TG: For Semi-Drop Center Rim

3. Industrial Service

Tire Size	Pattern	LI/SS	Star Rating	TRA Code or Application	Spec	Approximate Inflated Dimensions				OTD	Minimum Dual Spacing	Recommended Rim/Flange Height
						OD	OW	SLR	SLW			
						mm inch	mm inch	mm inch	mm inch			
Industrial Service												
20"												
10.00R20	VCHS	166A5		Industrial Service	IDR	1065 41.9	262 10.3	493 19.4	295 11.6	37.0	337 13.3	7.50V
12.00R20	VCH		★3	Industrial Service	IDU	1140 44.9	315 12.4	512 20.2	360 14.2	29.5	380 15.0	8.50V
	VCHS	176A5		Industrial Service	IDR	1139 44.8	297 11.7	507 20.0	355 14.0	41.5	375 14.8	
22.5"												
310/80R22.5 Tubeless	VPCT	175A8		Industrial Service	IDR	1057 41.6	303 11.9	472 18.6	342 13.5	19.3	380 15.0	9.00
24"												
12.00R24	VCH		★2	Industrial Service	IDU	1254 49.4	323 12.7	558 22.0	376 14.8	29.5	391 15.4	8.50V
	VCHS	178A5		Industrial Service	IDR	1263 49.7	310 12.2	580 22.8	351 13.8	42.0	391 15.4	
14.00R24	VHB		★3	Industrial Service	IDU	1357 53.4	383 15.1	630 24.8	410 16.1	23.5	450 17.7	10.00W
	VCH		★3	Industrial Service	IDU	1393 54.8	390 15.4	610 24.0	460 18.1	32.0	480 18.9	
	VCHS		★3	Industrial Service	IDU	1412 55.6	383 15.1	626 24.6	445 17.5	63.0	480 18.9	
14.00R24 TG Tubeless	VCHS		★3	Industrial Service	IDU	1412 55.6	383 15.1	626 24.6	445 17.5	63.0	480 18.9	10.00VA
25"												
16.00R25 Tubeless	VHB		★2	Industrial Service	IDU	1484 58.4	440 17.3	690 27.2	475 18.7	22.5	513 20.2	11.25/2.0
	VCHD	200A5		Industrial Service	IDR	1500 59.1	435 17.1	655 25.8	503 19.8	54.0	513 20.2	
	VRLS		★2	Industrial Service	IDU	1531 60.3	448 17.6	713 28.1	488 17.6	45.0	540 21.3	
450/95R25 Tubeless	VCHP	204A5		Industrial Service	IDR	1504 59.2	435 17.1	674 26.5	500 19.7	50.0	513 20.2	11.25/2.0
	VPCS	204A5		Industrial Service	IDR	1504 59.2	443 17.4	658 25.9	520 20.6	45.0	- -	
480/95R25 Tubeless	VPCS	208A5		Industrial Service	IDR	1548 60.9	485 19.1	683 26.9	557 21.9	45.0	- -	13.00/2.5
18.00R25 Tubeless	VHB		★3	Industrial Service	IDU	1610 63.4	515 20.3	733 28.9	565 22.2	26.0	587 23.1	13.00/2.5
	VCHS		★3	Industrial Service	IDU	1650 65.0	504 19.8	707 27.8	596 23.5	64.0	600 23.6	
	VSMS		★2	Industrial Service	IDU	1681 66.2	512 20.2	730 28.7	592 23.3	84.5	612 24.1	
	VCLG		★3	Industrial Service	IDU	1660 65.4	507 20.0	723 28.5	597 23.5	70.0	600 23.6	

Off-the-Road Tires Used for Industrial Vehicle Applications (IDU Spec)

- 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**.

Will be discontinued.

Pattern			Star Rating	Inflation Pressure	Tire Load Limits at Various Speeds											Size	
Industrial Service																	
20"																	
			kPa psi	km/h mph	0 Static	Creep Creep	5 3	10 5	15 9	20 12	25 15	30 19	35 22	40 25		10.00R20	
VCHS		Load Wheel	1000 145	kg lbs	6890 15200	6890 15200	6890 15200	6890 15200	6890 15200	6890 15200	6890 15200	6625 14600	6625 14600	*Compliant with the ETRTO standard of industrial tires			
		Steering Wheel	1000 145	kg lbs	5300 11700	5300 11700	5300 11700	5300 11700	5300 11700	5300 11700	5300 11700	4905 10800	4905 10800				
VCH VCHS	★3	Load Wheel	1000 145	kg lbs	9230 20350	9230 20350	9230 20350	9230 20350	9230 20350	9230 20350	9230 20350	8875 19570	8875 19570			12.00R20	
		Steering Wheel	1000 145	kg lbs	7100 15620	7100 15620	7100 15620	7100 15620	7100 15620	7100 15620	7100 15620	6570 14480	6570 14480				
22.5"																	
VPCT			1000 145	kg lbs	8970 19800	8970 19800	8970 19800	8970 19800	8365 18400	7760 17100	7760 17100	7330 16200	6900 15200	6900 15200	*Compliant with the ETRTO standard of industrial tires	310/80 R22.5	
24"																	
VCH	★2	Load Wheel	960 139	kg lbs	12420 27385	11040 24345	10005 22060	9315 20540	8970 19780	8765 19320	8625 19020					12.00R24	
		Steering Wheel	960 139	kg lbs	9935 21910	8830 19475	8005 17650	7450 16430	7175 15825	7010 15455	6900 15215						
VCHS		Load Wheel	1000 145	kg lbs	9750 21500	9750 21500	9750 21500	9750 21500	9750 21500	9750 21500	9750 21500	9375 20670	9375 20670	*Compliant with the ETRTO standard of industrial tires		12.00R24 TG	
		Steering Wheel	1000 145	kg lbs	7500 16500	7500 16500	7500 16500	7500 16500	7500 16500	7500 16500	7500 16500	6935 15200	6935 15200				
VHB VCH VCHS	★3	Load Wheel	1000 145	kg lbs	18000 39690	16000 35280	14500 31970	13500 29765	13000 28665	12700 28005	12500 27560	12400 27340					14.00R24
		Steering Wheel	1000 145	kg lbs	14400 31750	12800 28225	11600 25580	10800 23815	10400 22930	10160 22400	10000 22050	9920 21875					
VCHS	★3	Load Wheel	1000 145	kg lbs	18000 39690	16000 35280	14500 31970	13500 29765	13000 28665	12700 28005	12500 27560	12400 27340					14.00R24 TG
		Steering Wheel	1000 145	kg lbs	14400 31750	12800 28225	11600 25580	10800 23815	10400 22930	10160 22400	10000 22050	9920 21875					
25"																	
VHB VRLS	★2	Load Wheel	960 139	kg lbs	21870 48225	19440 42865	17615 38845	16400 36165	15795 34825	15430 34025	15185 33490	15065 33220					16.00R25
		Steering Wheel	960 139	kg lbs	17495 38580	15550 34290	14095 31075	13120 28935	12635 27860	12345 27220	12150 26790	12050 26575					
VCHD			1000 145	kg lbs	15400 33950	15400 33950	15400 33950	15400 33950	15400 33950	15400 33950	14000 30865	13475 29710	12950 28550	*Compliant with the ETRTO standard of industrial tires (For straddle carrier use only)		16.00R25	
VCHP			1000 145	kg lbs	17600 38800	17600 38800	17600 38800	17600 38800	17600 38800	17600 38800	16000 35275	15400 33950	14800 32630	*Compliant with the ETRTO standard of industrial tires (For straddle carrier use only)		450/95R25	
VPCS			1000 145	kg lbs	17600 38800	17600 38800	17600 38800	17600 38800	17600 38800	17600 38800	16000 35275	15400 33950	14800 32630				
VPCS			1000 145	kg lbs	19800 43700	19800 43700	19800 43700	19800 43700	19800 43700	19800 43700	18000 39700	17300 38100	16600 36600				
VHB VCHS VCLG	★3	Load Wheel	1000 145	kg lbs	30600 67475	27200 59975	24650 54355	22950 50605	22100 48730	21590 47605	21250 46855	21080 46480					18.00R25
		Steering Wheel	1000 145	kg lbs	24480 53980	21760 47980	19720 43480	18360 40485	17680 38985	17270 38085	17000 37485	16865 37185					
VSMS	★2	Load Wheel	960 139	kg lbs	28800 63505	25600 56450	23200 51155	21600 47630	20800 45865	20320 44805	20000 44100	19840 43745					18.00R25
		Steering Wheel	960 139	kg lbs	23040 50805	20480 45160	18560 40925	17280 38100	16640 36690	16255 35845	16000 35280	15870 34995					

3) For Speeds exceeding 30km/h (18mph), consult a Bridgestone Representative.

4) For tire sizes and star ratings other than listed above, consult a Bridgestone Representative.

5) For Minimum Dual Spacing information, please consult a Bridgestone Representative.

Tire Size	Pattern	LI/SS	Star Rating	TRA Code or Application	Spec	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>	mm	mm <i>inch</i>	inch
33"												
18.00R33 Tubeless	VCHS		★3	Industrial Service	IDU	1856 <i>73.1</i>	494 <i>19.4</i>	803 <i>31.6</i>	585 <i>23.0</i>	70.0	600 <i>23.6</i>	13.00/2.5
	VELS		★3	Industrial Service	IDU	1860 <i>73.2</i>	512 <i>20.2</i>	800 <i>31.5</i>	604 <i>23.8</i>	49.0	634 <i>25.0</i>	
35/65R33 Tubeless	VSDL		★2	Industrial Service	IDU	2075 <i>81.7</i>	880 <i>34.6</i>	900 <i>35.4</i>	986 <i>38.8</i>	95.0	- -	28.00/3.5

Off-the-Road Tires Used for Industrial Vehicle Applications (IDU Spec)

- 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			Star Rating		Inflation Pressure	Tire Load Limits at Various Speeds												Size
33"																		
			kPa psi	km/h mph	0 Static	Creep Creep	5 3	10 5	15 9	20 12	25 15	30 19				18.00R33		
VCHS VELS	★3	Load Wheel	1000 145	kg lbs	35100 77395	31200 68795	28275 62345	26325 58045	25350 55895	24765 54605	24375 53745	24180 53315						
		Steering Wheel	1000 145	kg lbs	28080 61915	24960 55035	22620 49875	21060 46435	20280 44715	19810 43685	19500 42995	19345 42655						
VSDL	★2	Load Wheel	780 113	kg lbs	50400 111130	44800 98785	40600 89525	37800 83350	36400 80260	35560 78410	35000 77175				35/65R33			
		Steering Wheel	780 113	kg lbs	40320 88905	35840 79025	32480 71620	30240 66680	29120 64210	28450 62725	28000 61740							

3) For Speeds exceeding 30km/h (18mph), consult a Bridgestone Representative.

4) For tire sizes and star ratings other than listed above, consult a Bridgestone Representative.

5) For Minimum Dual Spacing information, please consult a Bridgestone Representative.

BIAS TIRE

1. Tread Designs

Industrial Service



RL

R-LUG



RL has a standard tread depth and is applicable to a wide range of industrial type machines, especially the slow wearing type, such as a rubber-tired gantry crane (RTG).



RLS

R-LUG S



RLS's features are long tread life, thanks to extra-deep tread. Unique rubber compound resists cutting and wearing on smooth surface. Suitable for empty container handlers.



ELS2

E-LUG S2



Extra-deep tread corresponding to E4.5 is the main features of ELS2, which ensures longer tread life. Suitable for container handling equipment such as loaded container handlers (reach stackers), notorious for being the most severe conditions for tire wear.



STMS

SMOOTH TREAD-MS



STMS's main features are extra-long tread life and best riding comfort due to extra-deep and smooth tread design. Suitable for empty and loaded container handlers, especially on abrasive concrete surfaces.



YS2

YARD SERVICE-2



YS2 delivers excellent wear resistance for long serviceability as well as good traction and braking. Wear indicators inserted around the tread's circumference allow for easy measuring of the tread depth from any position. Specially designed for straddle carriers.

2. Application

■ Industrial Service

Lift trucks, Empty container handlers	Loaded container handlers	Straddle carriers	Harbor cranes	Rubber tired gantry cranes
				
   	   			
RL RLS YS2 STMS*	RL RLS ELS2* STMS*	YS2	RL	RL

*When the average operating speed exceeds 10 km/h, consult your Bridgestone representative.

Size	Type	Ply Rating
RL		
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
18.00-25	T/L	40
21.00-25	T/L	40
21.00-35	T/L	40

RLS

16.00-25	T/L	28 32
----------	-----	-------

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

STMS

12.00-24	T/T	20
18.00-25	T/L	40

YS2

16.00-25	T/L	32
----------	-----	----

T/T: Tube Type

T/L: Tubeless Type

TG: For Semi-Drop Center Rim

3. Industrial Service

Tire Size	Pattern	Ply Rating	TRA Code or Application	Spec	Approximate Inflated Dimensions				OTD	Minimum Dual Spacing	Recommended Rim/Flange Height
					OD	OW	SLR	SLW			
					mm inch	mm inch	mm inch	mm inch	mm	mm inch	inch
Industrial Service											
20"											
12.00-20	RL	20	Industrial Service	IDU	1138 44.8	316 12.4	507 20.0	348 13.7	24.0	378 14.9	8.50V
24"											
12.00-24	STMS	20	Industrial Service	IDU	1275 50.2	321 12.6	606 23.9	339 13.3	55.0	391 15.4	8.50V
14.00-24	RL	24 28	Industrial Service	IDU	1366 53.8	387 15.2	627 24.7	400 15.7	28.0	450 17.7	10.00W
14.00-24 TG Tubeless	RL	24	Industrial Service	IDU	1360 53.5	395 15.6	614 24.2	410 16.1	28.0	450 17.7	10.00VA
25"											
16.00-25 Tubeless	RL	28 32	Industrial Service	IDU	1495 58.9	445 17.5	671 26.4	459 18.1	33.5	513 20.2	11.25/2.0
	RLS	28 32	Industrial Service	IDU	1548 60.9	438 17.2	722 28.4	460 18.1	57.0	513 20.2	
	YS2	32	Industrial Service	IDU	1465 57.7	430 16.9	658 25.9	472 18.6	49.2	513 20.2	
18.00-25 Tubeless	RL	40	Industrial Service	IDU	1608 63.3	508 20.0	727 28.6	572 22.5	36.0	587 23.1	13.00/2.5
	ELS2	40	Industrial Service	IDU	1685 66.3	515 20.3	796 31.3	530 20.9	66.5	587 23.1	
	STMS	40	Industrial Service	IDU	1675 65.9	520 20.5	762 30.0	550 21.7	84.0	587 23.1	
21.00-25 Tubeless	RL	40	Industrial Service	IDU	1750 68.9	570 22.4	775 30.5	620 24.4	41.0	668 26.3	15.00/3.0
33"											
18.00-33 Tubeless	ELS2	36	Industrial Service	IDU	1878 73.9	515 20.3	887 34.9	533 21.0	66.5	587 23.1	13.00/2.5
35"											
21.00-35 Tubeless	RL	40	Industrial Service	IDU	2008 79.1	570 22.4	937 36.9	648 25.5	41.0	701 27.6	15.00/3.0
	ELS2	40	Industrial Service	IDU	2040 80.3	592 23.3	955 37.6	617 24.3	67.0	701 27.6	

Off-the-Road Tires Used for Industrial Vehicle Applications (IDU Spec)

- 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			Ply Rating	Inflation Pressure	Tire Load Limits at Various Speeds								Size
Industrial Service													
20"													
			kPa psi	km/h mph	0 Static	Creep Creep	5 3	10 5	15 9	20 12	25 15	30 19	
RL	20	Load Wheel	1000 145	kg lbs	11880 26200	10560 23290	9570 21100	8910 19650	8580 18920	8380 18480	8250 18190	8185 18050	12.00-20
		Steering Wheel	1000 145	kg lbs	9505 20960	8450 18630	7655 16880	7130 15720	6865 15135	6705 14785	6600 14550	6550 14440	
24"													
STMS	20	Load Wheel	1000 145	kg lbs	12420 27385	11040 24345	10005 22060	9315 20540	8970 19780	8765 19320	8625 19020	8555 18865	12.00-24
		Steering Wheel	1000 145	kg lbs	9935 21910	8830 19475	8005 17650	7450 16430	7175 15825	7010 15455	6900 15215	6845 15090	
RL	24	Load Wheel	1000 145	kg lbs	17100 37705	15200 33515	13775 30375	12825 28280	12350 27230	12065 26605	11875 26185	11780 25975	14.00-24
		Steering Wheel	1000 145	kg lbs	13680 30165	12160 26810	11020 24300	10260 22625	9880 21785	9650 21280	9500 20945	9425 20780	
	28	Load Wheel	1000 145	kg lbs	18000 39690	16000 35280	14500 31970	13500 29765	13000 28665	12700 28005	12500 27560	12400 27340	
		Steering Wheel	1000 145	kg lbs	14400 31750	12800 28225	11600 25580	10800 23815	10400 22930	10160 22400	10000 22050	9920 21875	
25"													
RL RLS YS2	28	Load Wheel	900 131	kg lbs	20700 45645	18400 40570	16675 36770	15525 34230	14950 32965	14605 32205	14375 31695	14260 31445	16.00-25
		Steering Wheel	900 131	kg lbs	16560 36515	14720 32455	13340 29415	12420 27385	11960 26370	11685 25765	11500 25355	11410 25155	
	32	Load Wheel	1000 145	kg lbs	22500 49610	20000 44100	18125 39965	16875 37210	16250 35830	15875 35005	15625 34455	15500 34175	
		Steering Wheel	1000 145	kg lbs	18000 39690	16000 35280	14500 31970	13500 29765	13000 28665	12700 28005	12500 27560	12400 27340	
RL ELS2 STMS	40	Load Wheel	1000 145	kg lbs	30600 67475	27200 59975	24650 54355	22950 50605	22100 48730	21590 47605	21250 46855	21080 46480	18.00-25
		Steering Wheel	1000 145	kg lbs	24480 53980	21760 47980	19720 43480	18360 40485	17680 38985	17270 38085	17000 37485	16865 37185	
RL	40	Load Wheel	1000 145	kg lbs	36385 80230	32345 71320	29310 64630	27290 60170	26280 57950	25670 56610	25270 55720	25065 55270	21.00-25
		Steering Wheel	1000 145	kg lbs	29110 64185	25875 57055	23450 51705	21830 48135	21025 46360	20535 45290	20215 44575	20050 44215	
33"													
ELS2	36	Load Wheel	1000 145	kg lbs	33300 73425	29600 65270	26825 59150	24975 55070	24050 53030	23495 51805	23125 50990	22940 50580	18.00-33
		Steering Wheel	1000 145	kg lbs	26640 58740	23680 52215	21460 47320	19980 44055	19240 42425	18795 41445	18500 40790	18350 40465	
35"													
RL ELS2	40	Load Wheel	1000 145	kg lbs	43740 96445	38880 85730	35235 77695	32805 72335	31590 69655	30860 68050	30375 66975	30130 66440	21.00-35
		Steering Wheel	1000 145	kg lbs	34990 77155	31105 68585	28190 62155	26245 57870	25270 55725	24690 54440	24300 53580	24105 53150	

3) For Speeds exceeding 30km/h (18mph), consult a Bridgestone Representative.

4) For tire sizes and star ratings other than listed above, consult a Bridgestone Representative.

5) For RTG (Rubber Tired Gantry Crane) operation, consult a Bridgestone Representative.

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* 385/95R25 445/80R25 550/65R25* 600/65R25*	- 15.5-25 17.5-25 20.5-25 - - - -	6.8	0.27	1790	70.47
P-25B	14.00R25* 16.00R25 18.00R25 20.5R25* 21.00R25 23.5R25 26.5R25 29.5R25 30/65R25(750/65R25) 445/95R25 450/95R25 480/95R25 505/95R25 525/80R25 550/65R25* 600/65R25* 650/65R25 750/65R25	- 16.00-25 18.00-25 20.5-25* 21.00-25 23.5-25 26.5-25 29.5-25 - - - - - - - - - -	9.8	0.39	1790	70.47
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	21.00-35 -	9.8	0.39	2557	100.67

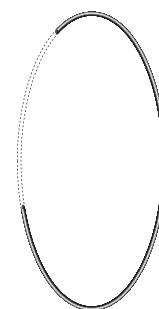
Code No.	Applicable Size		Diameter		Inner Circumference	
	Radial	Bias	mm	inch	mm	inch
P-35B	29.5R35 33.25R35 37.25R35	- - 37.25-35	9.8	0.39	2557	100.67
P-39B	37.5R39 - 40.5/75R39 45/65R39	- - 40/65-39 -	9.8	0.39	2912	114.69
P-45B	45/65R45	45/65-45	9.8	0.39	3326	130.94
P-49B	27.00R49	-	9.8	0.39	3611	142.17
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

*Detail of Application

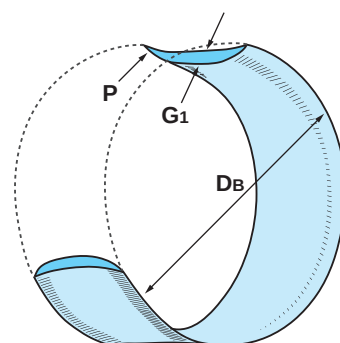
Code No.	Application Size		
	Radial	Bias	Rim
P-25AX	14.00R25 20.5R25 - 550/65R25 600/65R25	- - 20.5-25 - -	10.00-25/1.5 17.00AL-25/1.7 17.00-25/1.7 14.00-25/1.5 17.00-25/1.7
P-25B	14.00R25 20.5R25 550/65R25 600/65R25	- 20.5-25 - -	11.25-25 17.00-25 17.00-25 17.00-25 19.50-25

2. Flap Specifications

Flap	πD_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	1594	62.8	5.0	0.20	180	7.1
900A111-R20	1594	62.8	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	1566	61.7	9.0	0.35	384	15.1
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	1925	75.8	9.0	0.35	232	9.1
1100B1300-R24	1922	75.7	7.5	0.30	220	8.7
1300/1400-24,25	1925	75.8	9.0	0.35	232	9.1
1400/1600R24,25	1925	75.8	9.0	0.35	261	10.3
1600-24,25	1894	74.6	9.0	0.35	289	11.4
155A1800-24,25	1928	75.9	6.0	0.24	339	13.3
235-25	1932	76.1	9.0	0.35	560	22.1
265-25	2009	79.1	12.0	0.47	570	22.4
2100R33	2553	100.5	9.0	0.35	413	16.3

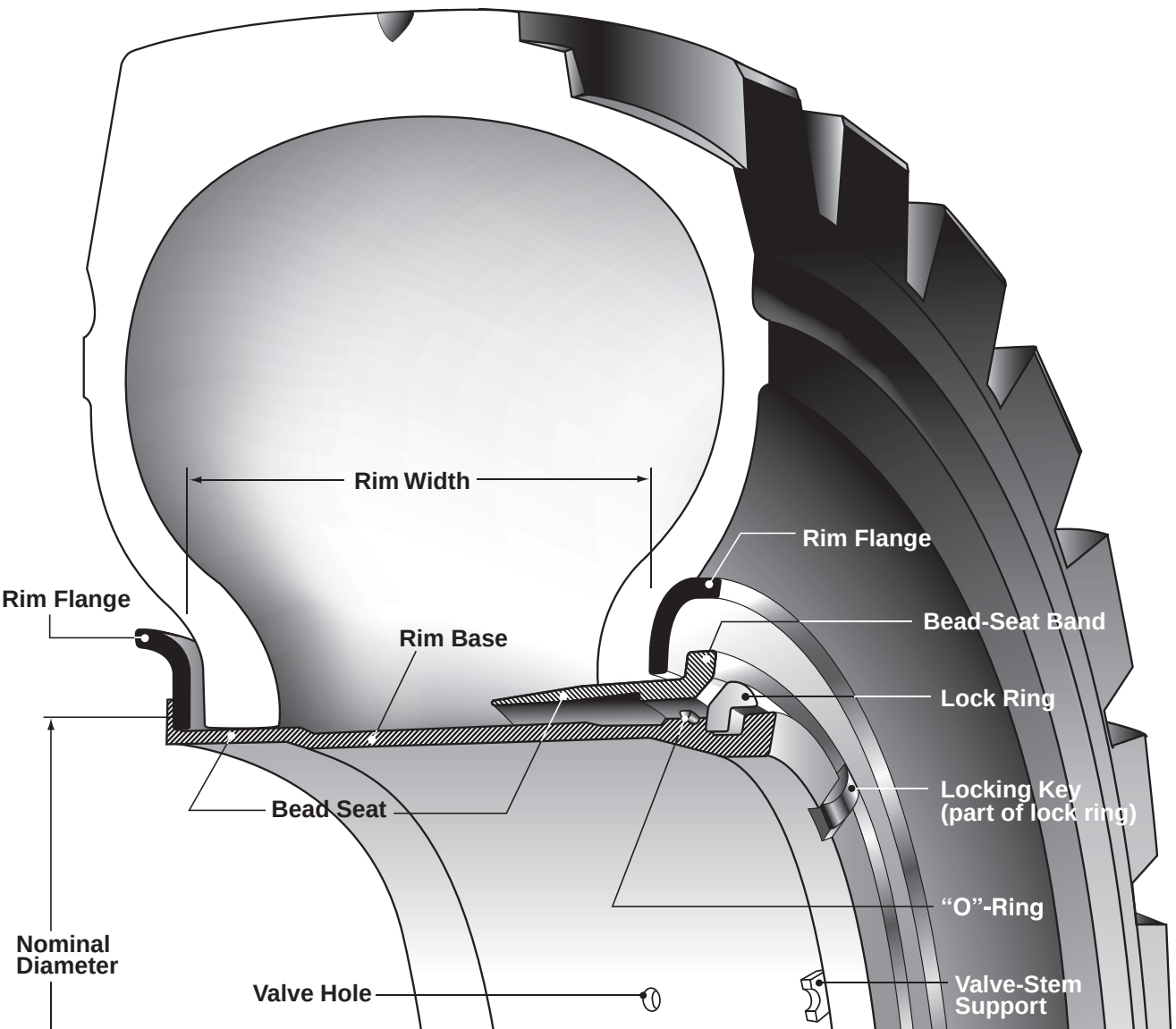


O-Ring



Flap

3. Rim and Valve



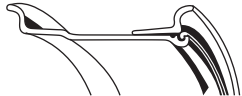
Five-piece fully-tapered bead-seat rim
with air-sealing "O"-ring gasket for earthmover

8.50V × 24

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

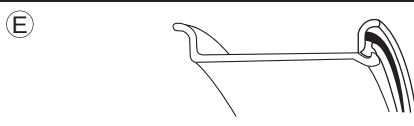
3.1 Rim Designation

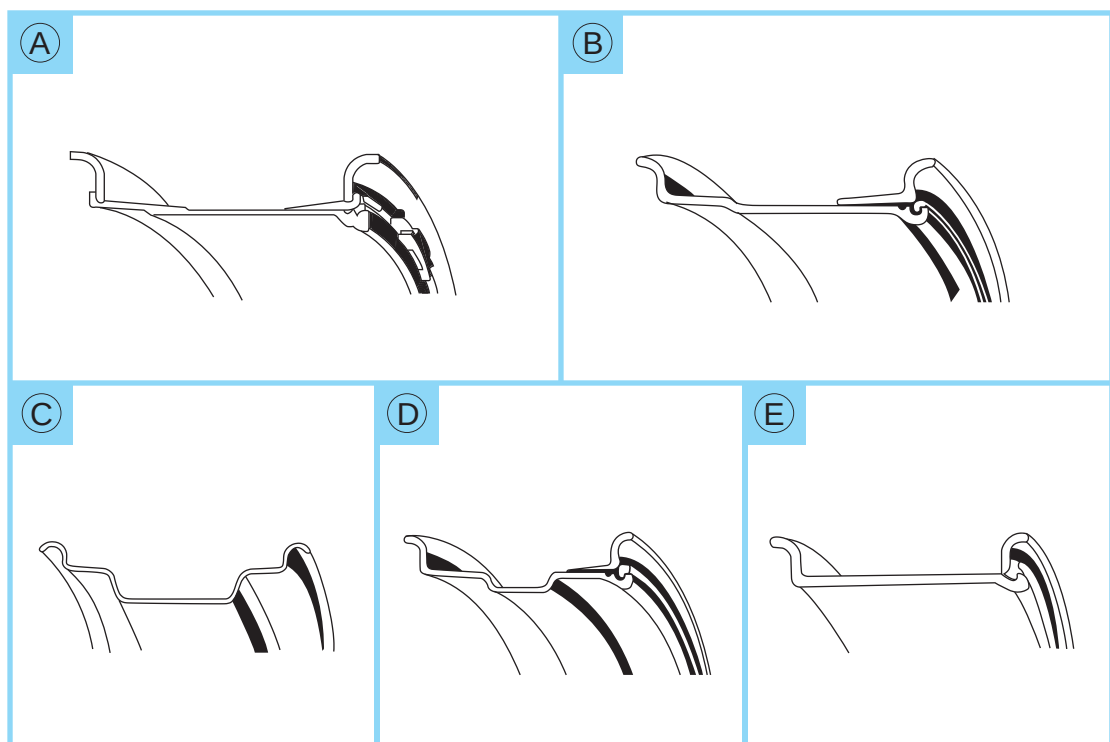
Full Tapered Bead Seat Rims (5 pieces)		
		
Recommended Rim/ Flange Height	Tire Size	
	Radial	Bias
11.00/1.5	14.5R15	-
11.25/2.0	16.00R25	16.00-25
	445/95R25	-
13.00/2.5	18.00R25	18.00-25
	505/95R25	-
	18.00R33	18.00-33
15.00/3.0	21.00R25	21.00-25
	21.00R33	-
	21.00R35	21.00-35
17.00/2.0	550/65R25	-
	600/65R25	-
17.00/3.5	24.00R35	24.00-35
19.50/2.5	23.5R25	23.5-25
	600/65R25	-
	650/65R25	-
19.50/4.0	27.00R49	-
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	-
	42/90R57	-
	46/90R57	-
	50/80R57	-
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	-
	45/65R39	-
32.00/6.0	46/90R57	-
	50/80R57	-
	50/90R57	-
32.00/6.5	50/90R57	-
34.00/5.0	50/80R57	-
34.00/6.0	50/80R57	-
	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	-
38.00/5.0	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	-
12.00/1.3	15.5R25	15.5-25
14.00/1.5	17.5R25	17.5-25
	445/80R25	-
	550/65R25	-
17.00AL/1.7(★1only)	20.5R25	-
17.00/1.7	-	20.5-25
	600/65R25	-
17.00/2.0	20.5R25	20.5-25
	525/80R25	-
	550/65R25	-

Drop Center Rims (DC, W, DW)		
		
Recommended Rim/ Flange Height	Tire Size	
	Radial	Bias
7JA	-	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
	11R22.5	-
9.00	12R22.5	-
9.75	-	12-16.5
W10	-	15.5/60-18
W13	-	15.5/70-18
W14L	-	17.5/65-20
W15L	-	16.9-24
W16L	-	18.4-24
DW20A	-	23.1-26
DW20B	-	23.1-26

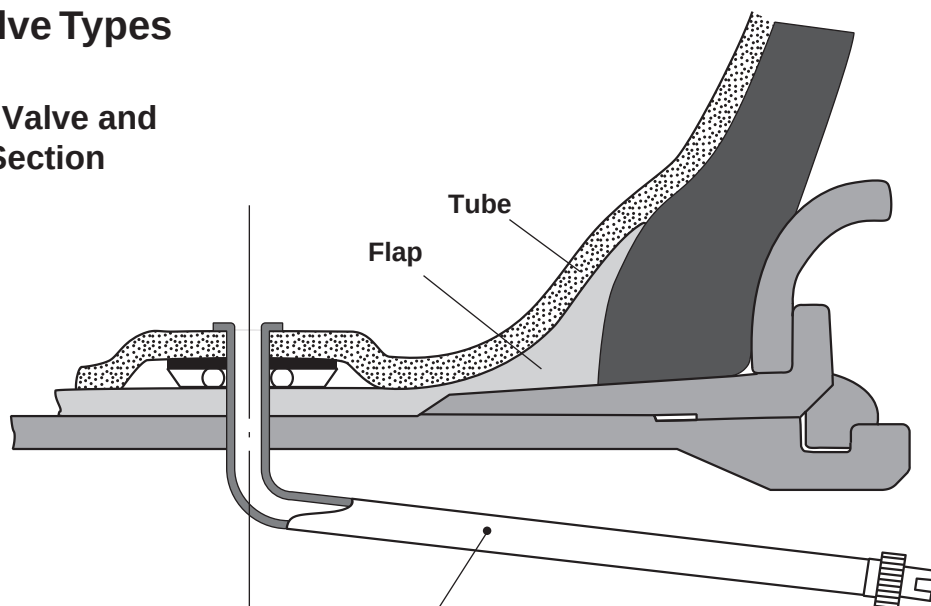
Semi Drop Center Rims (SDC)		
		
Recommended Rim/ Flange Height	Tire Size	
	Radial	Bias
6.00GS	-	7.50-15
	-	7.50-16
8.00TG	13.00R24 TG	13.00-24 TG
	14.00R24 TG	14.00-24 TG
10.00F	-	33x12.5-15
10.00VA	-	13.00-24 TG
	14.00R24 TG	14.00-24 TG
	16.00R24 TG	16.00-24 TG
11x20	335/80R20	-
	365/80R20	-
11.00TG	-	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	-
7.00T	9.00R20	9.00-20
7.50V	10.00R15	-
	10.00R20	10.00-20
8.00V	11.00R20	11.00-20
8.5	-	12.00-24
8.50V	12.00R20	12.00-20
	12.00R24	12.00-24
10.00V	16.00R20	-
10.00WI	14.00R20	-
10.00W	16.00R20	-
	14.00R24	14.00-24

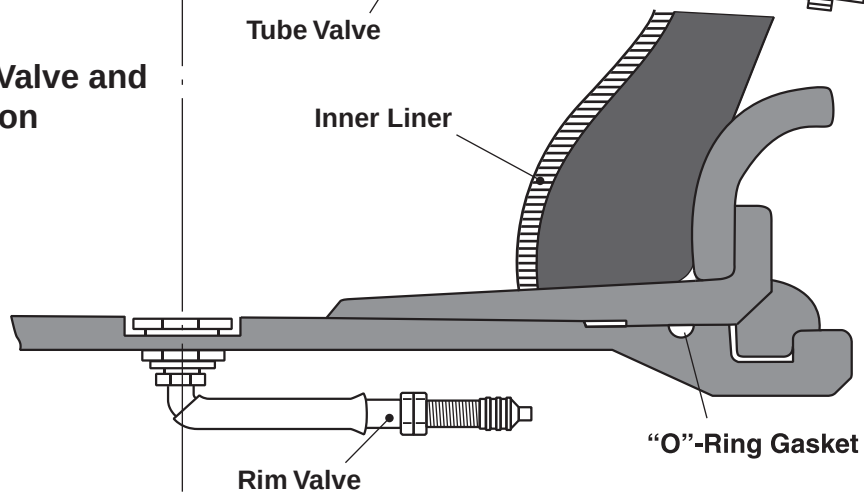


3.2 Valve Types

Tube Valve and Rim Section



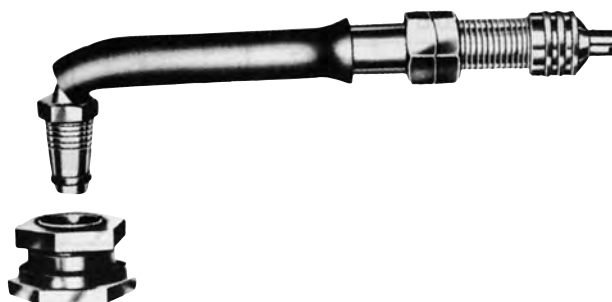
Tubeless Valve and Rim Section



Tube Valve

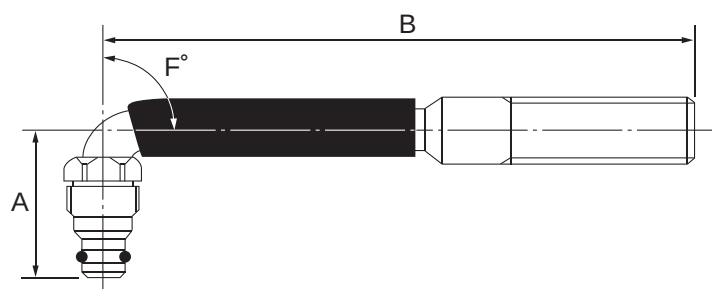


Tubeless Valve



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.

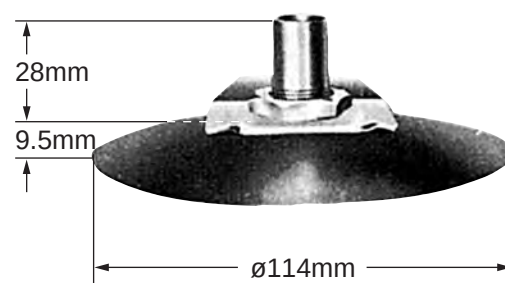
Tubeless Type Spud

SP2



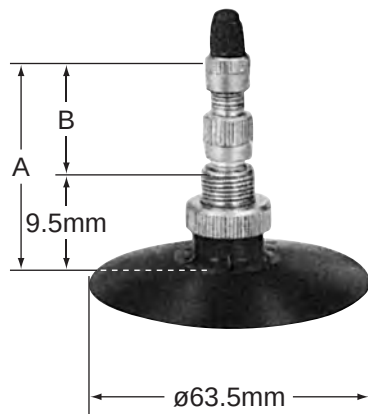
Tube Type Spud

SP4000



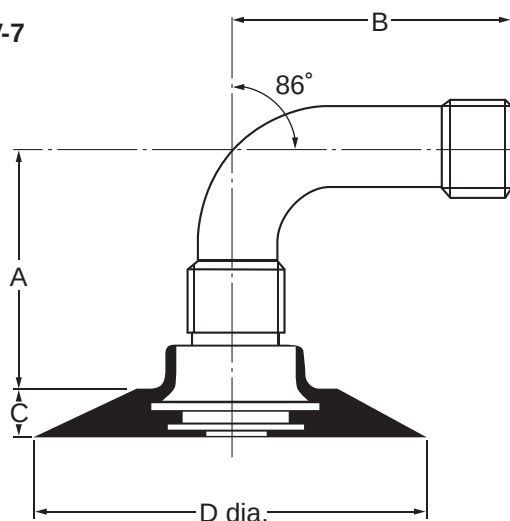
Tube Type Rubber Base Valves

TR218



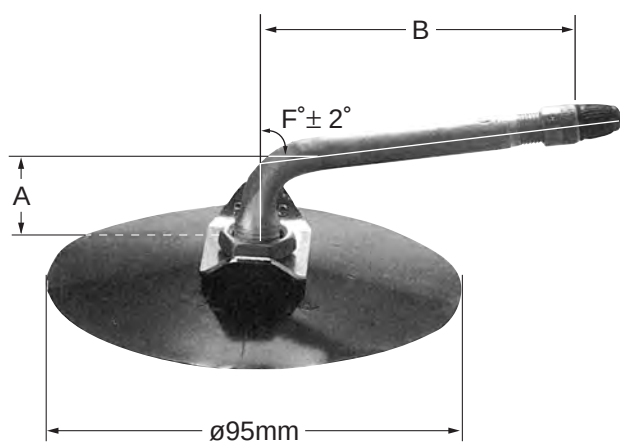
Valve No.	Dimensions (mm)	
	A	B
TR218A	20.6	11.1
TR220A	30.2	20.7

PV-7



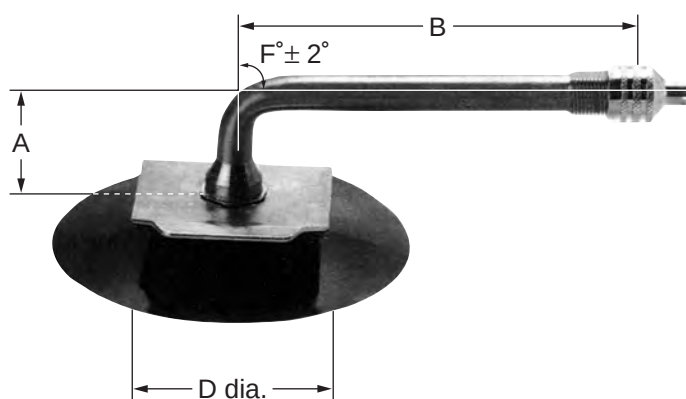
Valve No.	Dimensions (mm)			
	A	B	C	D dia.
PV-7	73	100	7	90

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°

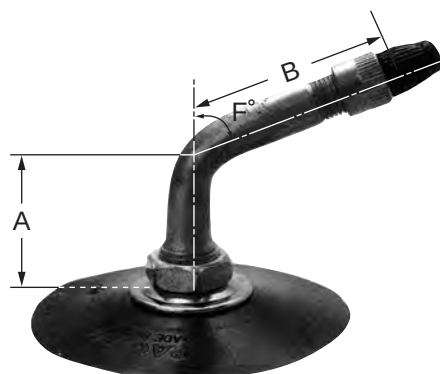
JSJ1175



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°

JS2



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

Tube Type Rubber Covered Valves

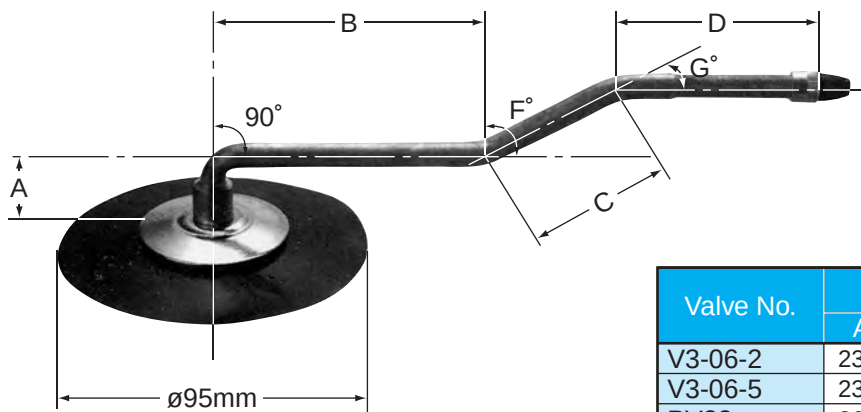
TR13



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

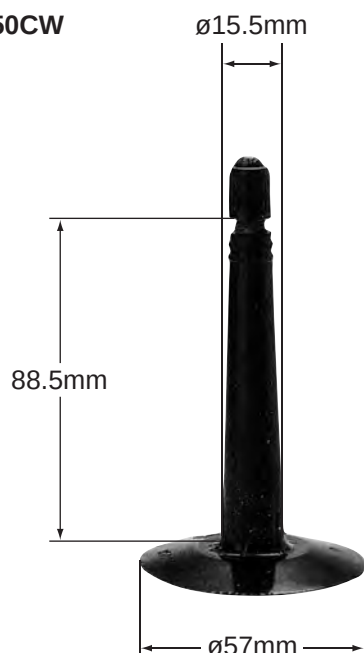
Tube Type Screw-on Valves

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°	—

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.

2. Specific Weight (Approximately)

Material	Pounds/cu.yd	Metric Tons/m ³	Material	Pounds/cu.yd	Metric Tons/m ³
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.

OTHER INFORMATION

1. Unit Conversion Tables

INFLATION PRESSURE

kPa	psi	Bar	kg/cm ²	kPa	psi	Bar	kg/cm ²	kPa	psi	Bar	kg/cm ²	kPa	psi	Bar	kg/cm ²
10	1	0.1	0.1	260	38	2.6	2.7	510	74	5.1	5.2	760	110	7.6	7.8
20	3	0.2	0.2	270	39	2.7	2.8	520	75	5.2	5.3	770	112	7.7	7.9
30	4	0.3	0.3	280	41	2.8	2.9	530	77	5.3	5.4	780	113	7.8	8.0
40	6	0.4	0.4	290	42	2.9	3.0	540	78	5.4	5.5	790	115	7.9	8.1
50	7	0.5	0.5	300	44	3.0	3.1	550	80	5.5	5.6	800	116	8.0	8.2
60	9	0.6	0.6	310	45	3.1	3.2	560	81	5.6	5.7	810	117	8.1	8.3
70	10	0.7	0.7	320	46	3.2	3.3	570	83	5.7	5.8	820	119	8.2	8.4
80	12	0.8	0.8	330	48	3.3	3.4	580	84	5.8	5.9	830	120	8.3	8.5
90	13	0.9	0.9	340	49	3.4	3.5	590	86	5.9	6.0	840	122	8.4	8.6
100	15	1.0	1.0	350	51	3.5	3.6	600	87	6.0	6.1	850	123	8.5	8.7
110	16	1.1	1.1	360	52	3.6	3.7	610	88	6.1	6.2	860	125	8.6	8.8
120	17	1.2	1.2	370	54	3.7	3.8	620	90	6.2	6.3	870	126	8.7	8.9
130	19	1.3	1.3	380	55	3.8	3.9	630	91	6.3	6.4	880	128	8.8	9.0
140	20	1.4	1.4	390	57	3.9	4.0	640	93	6.4	6.5	890	129	8.9	9.1
150	22	1.5	1.5	400	58	4.0	4.1	650	94	6.5	6.6	900	131	9.0	9.2
160	23	1.6	1.6	410	59	4.1	4.2	660	96	6.6	6.7	910	132	9.1	9.3
170	25	1.7	1.7	420	61	4.2	4.3	670	97	6.7	6.8	920	133	9.2	9.4
180	26	1.8	1.8	430	62	4.3	4.4	680	99	6.8	6.9	930	135	9.3	9.5
190	28	1.9	1.9	440	64	4.4	4.5	690	100	6.9	7.0	940	136	9.4	9.6
200	29	2.0	2.0	450	65	4.5	4.6	700	102	7.0	7.1	950	138	9.5	9.7
210	30	2.1	2.1	460	67	4.6	4.7	710	103	7.1	7.2	960	139	9.6	9.8
220	32	2.2	2.2	470	68	4.7	4.8	720	104	7.2	7.3	970	141	9.7	9.9
230	33	2.3	2.3	480	70	4.8	4.9	730	106	7.3	7.4	980	142	9.8	10.0
240	35	2.4	2.4	490	71	4.9	5.0	740	107	7.4	7.5	990	144	9.9	10.1
250	36	2.5	2.6	500	73	5.0	5.1	750	109	7.5	7.7	1000	145	10.0	10.2

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		

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		

TEMPERATURE

°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		

TREAD DEPTH CONVERSION TABLE FROM INCH TO MILLIMETER

inch/32	mm	inch/32	mm	inch/32	mm	inch/32	mm
1	0.8	21	16.7	41	32.5	105	83.3
2	1.6	22	17.5	42	33.3	110	87.3
3	2.4	23	18.3	43	34.1	115	91.3
4	3.2	24	19.1	44	34.9	120	95.3
5	4.0	25	19.8	45	35.7	125	99.2
6	4.8	26	20.6	46	36.5	130	103.2
7	5.6	27	21.4	47	37.3	135	107.2
8	6.4	28	22.2	48	38.1	140	111.1
9	7.1	29	23.0	49	38.9	145	115.1
10	8.0	30	23.8	50	39.7	150	119.1
11	8.7	31	24.6	55	43.7	155	123.0
12	9.5	32	25.4	60	47.6	160	127.0
13	10.3	33	26.2	65	51.6	165	131.0
14	11.1	34	27.0	70	55.6	170	134.9
15	11.9	35	27.8	75	59.5	175	138.9
16	12.7	36	28.6	80	63.5	180	142.9
17	13.5	37	29.4	85	67.5	185	146.9
18	14.3	38	30.2	90	71.4	190	150.8
19	15.1	39	31.0	95	75.4	195	154.8
20	15.9	40	31.8	100	79.4	200	158.8

FROM MILLIMETER TO INCH

mm	inch/32	mm	inch/32	mm	inch/32	mm	inch/32
1	1.3	19	23.9	37	46.6	75	95.5
2	2.5	20	25.2	38	47.9	80	100.8
3	3.8	21	26.5	39	49.1	85	107.1
4	5.0	22	27.7	40	50.4	90	113.4
5	6.3	23	29.0	41	51.7	95	119.7
6	7.6	24	30.2	42	52.1	100	126.0
7	8.8	25	31.5	43	54.2	105	132.3
8	10.1	26	32.8	44	55.4	110	138.6
9	11.3	27	34.0	45	56.7	115	144.9
10	12.6	28	35.3	46	58.0	120	151.2
11	13.9	29	36.5	47	59.2	125	157.5
12	15.1	30	37.8	48	60.5	130	163.8
13	16.4	31	39.1	49	61.7	135	170.1
14	17.6	32	40.3	50	63.0	140	176.4
15	18.9	33	41.6	55	69.3	145	182.7
16	20.2	34	42.8	60	75.6	150	189.0
17	21.4	35	44.1	65	81.9		
18	22.7	36	45.4	70	88.2		

PRESSURE

	kg/cm ²	kPa	bar	psi
kg/cm ²	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

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 ²	are	hectare	k.meter ²	foot ²	yard ²	acre	mile ²
meter ²	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 ²	-	10000.0	100.000	1	-	-	247.105	0.386098
foot ²	0.092903	0.000929	0.000009	0.000000	1	0.111111	0.000023	0.000000
yard ²	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 ²	-	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)

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

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

[illegible]

DATA BOOK

