

JIS

JAPANESE INDUSTRIAL STANDARD

**Contours of Rims for Industrial
Vehicles and Off the Road Service**

JIS D 6402—1985

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JAPANESE INDUSTRIAL STANDARD

J I S

Contours of Rims for Industrial Vehicles
and Off the Road Service

D 6402-1985

1. Scope

This Japanese Industrial Standard specifies the contours of rim faces, hereinafter referred to as the "rim", on which tyres of industrial and off the road vehicles are to be mounted.

2. Types

The types for contours of rim shall be as given in Table 1.

Table 1

Type	Symbol	Figure
5° Drop-centre rim	5° DC	Fig. 1.1, Fig. 1.2
Semi drop-centre rim	SDC	Fig. 2
		Fig. 3.1, Fig. 3.2, Fig. 3.3
Interim rim	IR	Fig. 4.1, Fig. 4.2
W Type drop-centre rim	W	Fig. 5.1, Fig. 5.2
Full tapered bead seat rim	TB	Fig. 6
		Fig. 7.1, Fig. 7.2
		Fig. 8
		Fig. 9.1, Fig. 9.2
		Fig. 10
Divided type rim	DT	Fig. 11.1, Fig. 11.2
		Fig. 11.3, Fig. 11.4

Remark: Rims shall be designated in accordance with JIS D 4102.

Applicable Standard:

JIS D 4102-Wheels/Rims-Classification, Designation and Marking

Reference Standards:

JIS B 9203-Contours of Rims for Agricultural Machines and Implements

JIS D 4218-Contours of Rims for Automobiles

JIS D 6401-Dimensions and Load Ratings of Tires for Industrial Vehicles
and Off the Road Service

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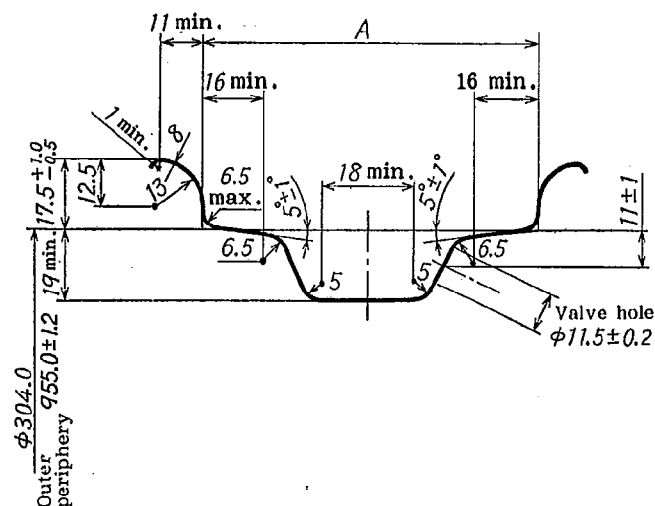
3. Dimensions

Dimensions of the contours in respect to the designations of the rims shall be as given in Figs. 1.1 to 11.4.

Furthermore, for the dimensions on which no tolerance is specified, only the base dimensions shall be given.

Fig. 1.1. Contours of 5° Drop-Centre Rim (Symbol 5° DC)

Unit: mm



Unit: mm

Designation of rim	A	
	Dimension	Tolerance
3.00 D × 12	76	± 1.5
3.50 D × 12	89	

Remark: The shape as given in Fig. 1.2 is applicable to the valve hole for designation of rim 3.50 D × 12.

Fig. 1.2

Unit: mm

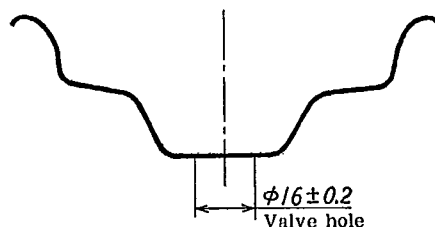
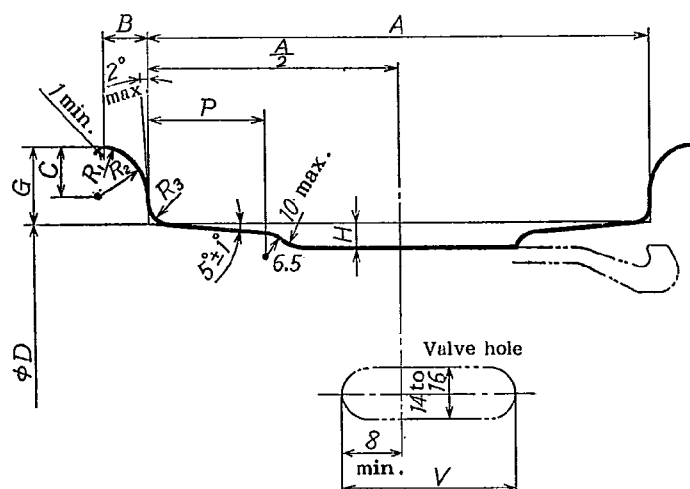


Fig. 2. Contour of Semi Drop-Centre Rim (Symbol SDC) (No. 1)

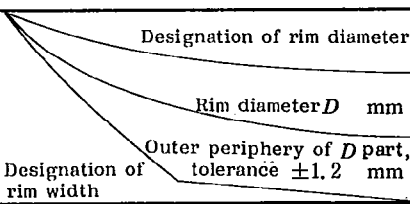
Unit: mm



Unit: mm

Designation of rim width	$A \pm 3.0$	$\frac{A}{2}$	B Min.	P Min.	C	G		H Min.	V Min.	R_1	R_2	R_3 Max.
						Di- mension	Tolerances					
4.50 E	114	57	12	22	13.5	20	$+1.0$ -0.5	5	35	8.5	14	7
5.50 F	140	70		32	14.5	22				9.5	15.5	
6.00 GS	152	76	16	36	—	28	± 1.0	6	40	—	14	8
7.00 N	178	89	21	48		35					19	

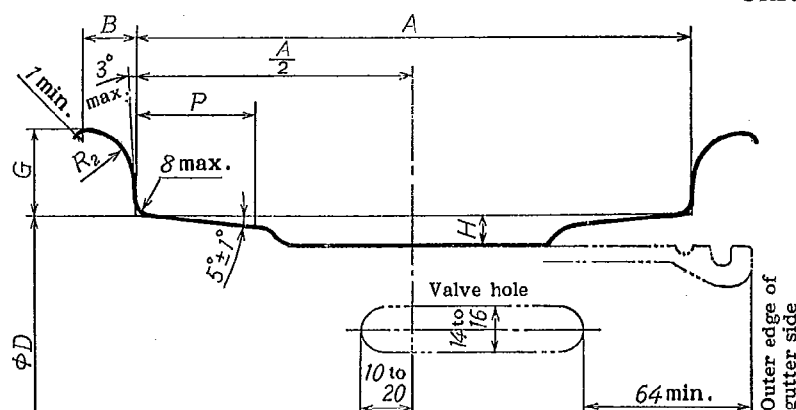
Combination of Rim Width and Rim Diameter

	15	16
	380.2	405.6
	1 194.4	1 274.2
4.50 E	○	—
5.50 F	○	○
6.00 GS	○	○
7.00 N	—	○

- Remarks 1. These rims are of the one side bead seat mountable/demountable type, and of which valve holes shall be located near the mounting/demounting side.
2. The gutter portion given in Figure indicates an example.

Fig. 3.1. Contour of Semi Drop-Centre Rim (Symbol SDC) (No. 2)

Unit: mm



Designation of rim width	A		$\frac{A}{2}$	B Min.	P Min.	G ± 1.2	H Min.	R ₂ ± 1.3
	Dimension	Tolerances						
8.00 TG	203	± 3.0	101.5	16.5	47	36	7	16.5
10.00 VA	254	± 5.0	127	24.5	60	43	11	23
12.00	305	± 6.0	152.5	25	47	33	7	
14.00	356		178					

Combination of Rim Width and Rim Diameter

Designation of rim diameter		24	25
Rim diameter D mm		614.4	635.0
Outer periphery of D part, tolerance ± 2.5 mm		1 930.2	1 994.9
Designation of rim width	8.00 TG	○	—
	10.00 VA	○	—
	12.00	—	○
	14.00	—	○

- Remarks 1. These rims are of the one side bead seat mountable/demountable type, and of which valve holes shall be located near the mounting/demounting side.
2. The gutter portion given in Figure indicates an example.
3. Valve holes of rims for the tubeless tyres shall be as given in Fig. 3.2 and Fig. 3.3.

Fig. 3.2

Unit: mm

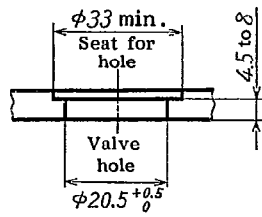


Fig. 3.3

Unit: mm

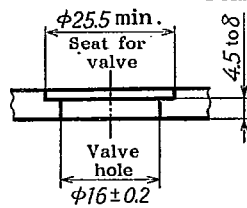
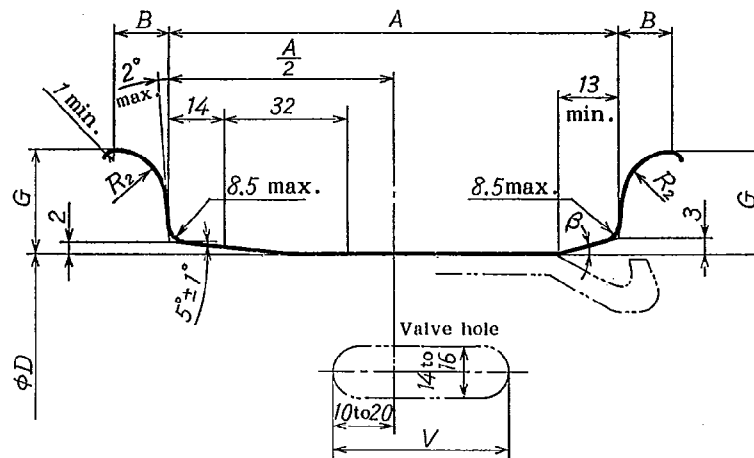


Fig. 4.1. Contour of Interim Rim (Symbol IR)

Unit: mm



Unit: mm

Designation of rim width	A		$\frac{A}{2}$	B min.	G ± 1.2	R ₂ ± 2.5	V min.	β (Reference)
	Dimension	Tolerances						
5.50 S	140	± 3.0	70	18	33	18	60	12°
6.00 S	152		76					
6.50 T	165		82.5	22	38	22	70	14°30'
7.00 T	178		89				75	
7.50 V	190		95	27	44.5	27	80	
8.00 V	203		101.5				93	
8.50 V	216	108	93					
9.00 V	228	± 3.5	114				105	
10.00 WI	254	± 4.5	127	29	51	29	119	

Remarks 1. These rims are of the one side bead seat mountable/demountable type, and of which valve holes shall be located near the mounting/demounting side.

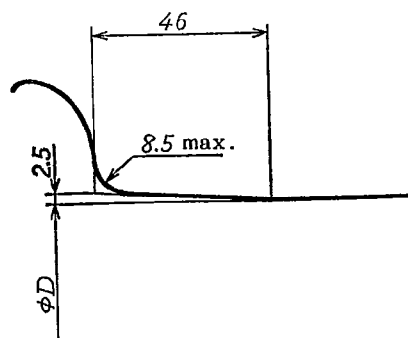
2. The gutter portion given in Figure indicates an example.

Combination of Rim Width and Rim Diameter

Designation of rim diameter	15	20	24
Rim diameter D mm	381.0	508.0	609.6
Outer periphery of D part, tolerance ± 1.2 mm	1 196.9	1 596.0	1 915.1
Designation of rim width			
5.50S	○	—	—
6.00S	○	○	—
6.50T	○	○	—
7.00T	○	○	—
7.50V	○	○	—
8.00V	○	○	○
8.50V	—	○	○
9.00V	—	○	○
10.00WI	—	○	○

Fig. 4.2. Permissible Contour of Bead Seat of Interim Rim (Symbol IRA)

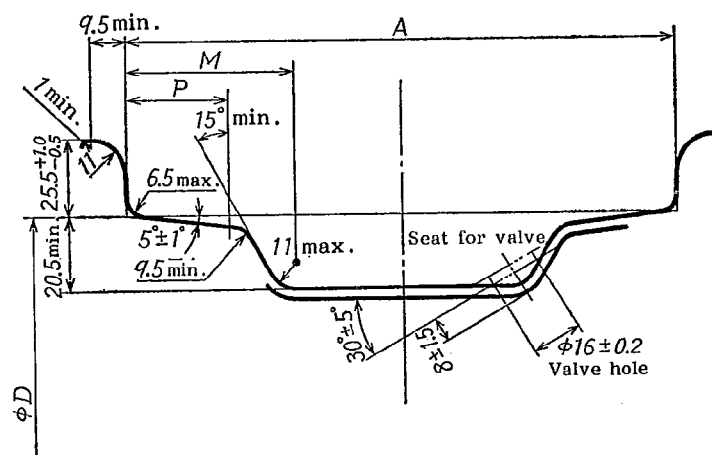
Unit: mm



- Remarks 1. This contour applies only to the fixed flange side of the rim.
2. Those of designations of rim width 6.00 S, 7.00 T, 7.50 V and 10.00 WI are of contour of IRA.
3. IRA means the permissible contour among IRs.

Fig. 5.1. Contour of W Type Drop-Centre Rim (Symbol W)

Unit: mm



Unit: mm

Designation of rim width	A		P Min.	M Max.
	Dimension	Tolerances		
W 10	254	± 2.5	27	50.8
W 13	330			
W 15L	381	± 4.5	33	57.2
W 16L	406			

Fig. 5.1 (Continued)
Combination of Rim Width and Rim Diameter

Designation of rim diameter	24	28	30
Rim diameter D mm	614.4	716.0	766.8
Outer periphery of D part, tolerances ± 1.2 mm	1 930.2	2 249.4	2 409.0
Designation of rim width			
W 10	—	○	—
W 13	○	○	—
W 15 L	○	○	○
W 16 L	○	—	—

Remark: In the case where a knurling is to be provided optionally, it shall be in accordance with Fig. 5.2.

Fig. 5.2

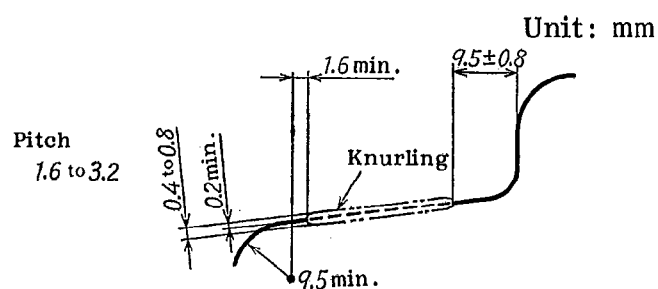


Fig. 6. Contour of Full Tapered Bead Seat Rim (Symbol TB) (No. 1)

Unit: mm

