

Farm Machinery Testing and Training Centre Department of Farm Power and Machinery College of Agricultural Engineering and Technology Dr. PANJABRAO DESHMUKH KRISHI VIDYAPEETH AKOLA- 444 104 (MS)



Email: fmtt28@gmail.com

SPECIFICATION SHEET OF TRACTOR OPERATED AIR ASSISTED SPRAYER

1	General			
	Name and address of manufacturer	:		
	Name and address of applicant	:		
	Name of machine	:		
	Туре	:		
	Make	:		
	Model	:		
	Batch No/Code No.	:		
	Capacity of Sprayer, l	:		
	Serial No	:		
	Recommended working pressure,	:		
	kg/cm ²			
	Output capacity, l/min	:		
	Year of Manufacture	:		
	Optional connection	:		
	Mass, kg.			
2	Recommended Source of Power	:		
	Prime More Used, kW	:		
2.1	Propeller shaft			
	Туре	:		
	Length of shaft, mm			
	Maximum	:		

Minimum	:	
Mass of shaft, Kg	:	
Provision of locking	:	

Hub Dimension, mm Refer fig.1 As per IS 4931:1995, mm

Notation	As per IS:4931:1995,	As observed, mm	Remarks
	mm		
Dφ	34.93 ± 0.03		
dφ	29.7 ± 0.7		
W	8.69 (Min)		
В			

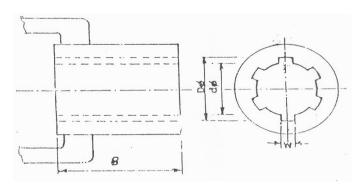


Fig 1 Hub dimensions

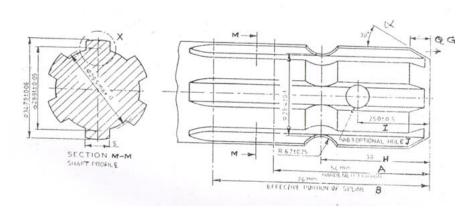


Fig 2 Dimensions of splined end of pinion shaft, mm

Specification	As per IS: 4931- 2004	As observed, mm	Remarks
1	2	3	4
Дφ	34.79±0.06		
dφ	28.91±0.05		

	Вφ	29.4±0.1		
	S	8.69		
	R	6.7±0.25		
	α	30°		
	G	7		
	Н	38		
	A	54 (Min.)		
	В	76 (Min.)		
	I	25±0.5		
	J (optional hole)	8.3		
3	Pump Description			
	Make of pump		:	
	Type		:	
	No. of Plunger		:	
	Recommend pump s	speed for	:	
	spraying, rpm			
	Suction Volume, 1/n	nin	:	
	Rated pressure for s	or spraying,		
	Kg/cm ²			
	Pump, kW		:	
4	Nozzle		:	
	Make		:	
	Type		:	
	Designation		:	
	Recommended oper	ating pressure,	:	
	Kg/cm2			
	Discharge rate, lit/m		:	
	Arrangement of noz	zle	:	
	No. of nozzles		:	
5	Tank			
	Shape		:	
	Size, mm (L x B x H	I)	:	
	Capacity, lit		:	
	Material		:	
	Method of Mounting	2	:	

6	Main I	Frame				
	Type		:			
	Size, m	ım (Length X Width)	:			
7	Transport wheel					
	Nos. of	Wheel	:			
	Tyre siz	ze with ply rating	:			
	Track v	vith, mm	:			
	Ground	l clearance, mm	:			
8	Axle			•		
	Materia	al	:			
	Length	, mm	:			
	Size, m	ım	:			
9	Drawb	ar hitch				
	Materia	al	:			
	Size, m	ım (L x B x T)	:			
9.1	Eye Bo	lt				
	Materia	al	:			
	Diamet	er, mm	:			
10	Mount	ing arrangement				
10.1	Three 1	point linkage, (Fig. 3)				
	Sr.	Notations	,	As per	As	Remarks
	No.		Is: 4	4468-2001	measured,	
			(Cat	t-I/Cat-II),	mm	
				mm		
	I	Upper hitch point				
	a)	Diameter of hitch pin		2 to 19.00/		
		(A)		37 to 25.50		
	b)	Diameter of hitch pin		3 to 19.5/		
		hole (B)	25.70 to 25.91			
	c)	Linch pin hole distance	76/93 (Min.)			
		(D)	_			
	d)	Width between outer	69/	86 (Max.)		
		faces of yoke (E)				
	e)	Width between inner	44.5	5/52 (min)		
		faces of yoke (F)				
	II	Lower hitch points	ch points			

a)	Diameter of hitch pin	21.80 to 22.01/	
		27.8 to 28.0	
b)	Diameter of hitch pin	22.40 to 22.65/	
	hole (H)	28.70 to 29.00	
c)	Linch pin hole distance	39/49 (Min.)	
	(K)		
III	Diameter of linch pin he	ole	
a)	Upper hitch pin (L)	12/12 (min.)	
b)	Lower hitch pin (L)	12/12 (min.)	
IV	Mast height (M)	458.5 to 461.5/	
		608.5 to 611.5	
V	Lower hitch point	681.5 to 684.5/	
	spans (N)	823.5 to 826.5	

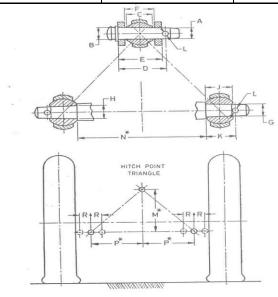


Fig 3 specifications hitch pyramid

11	Parking stand		
	Туре	:	
	Material	:	
	Size, mm	:	
	No of stand	:	
	Arrangement	:	

12	Agitation Device	
	Make	:
	Type	:
	Nos. of agitation device	:
13	Fan description	:
	Type of fan	:
	Material	:
	Size of fan, mm	:
	No of blades	:
	Safety guard	:
14	Gear box details	
	Ratio of gear box	
	No of teeth on 1st gear	:
	No of teeth on 2nd gear	:
	Ratio	:
	No of teeth on 3rd gear	:
	No of teeth on 4th gear	:
	Ratio	:
	Safety guard	:
15	Filter	
	Mesh	:
	Size, mm	:
	Arrangement	:
16	Accessories	
	For operator's safety against	:
	pesticides	
	Tool kit	:
17	Overall dimensions	
	(L x B x H), mm	
	Colour	:
18	Mass with all accessories and	:

	without fuel	and chemicals, kg				
19	Mass with all accessories, fuel and :		:			
	chemicals ta	nk, kg				
20	Application/	Area of Use	:			
21	Marketing/L	abelling	:			
	Sr. no.	Parameters		:	Details	
	1	Make		:		
	2	Model		:		
	3	Sr No		:		
	4	Tractor power required		:		
	5	Year of manufacture		:		
	7	Name and address manufacturer	of	:		

Place:	
Date:	Signature:
	Name:
	Designation: