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DME | V-Belt

Design procedure for V - Belt

Given :

Power to be transmitted, P in kW ;
 Diameter of driving wheel(or) smaller pulley d in mm ;
 Diameter of driven wheel(or) larger pulley D in mm ;
 Speed of driving wheel n_1 in rpm ;
 Speed of driven wheel n_2 in rpm ;
 Centre distance C in mm ;
 Service = 10 hrs/day Or

Procedure:

1. Select V belt section based on power and minimum diameter of pulley PSG 7.58

Data on Standard V - Belt Sections					
Cross-section symbol	Usual load of drive kW	Recommended minimum pulley pitch diameter d , mm	Nominal top width W , mm	Nominal thickness T , mm	Weight per metre kgf
A	0.75 - 5	75	13	8	0.106
B	2 - 15	125	17	11	0.189
C	7.5 - 75	200	22	14	0.343
D	22 - 150	355	32	19	0.596
E	30 - 190	500	38	23	-

If dia of smaller pulley is not given, take dia. d from the above table. ($d \geq$ min. dia pulley)

If centre distance is not given, assume

$$C_{\max} = 2(D + d) \quad \text{PSG 7.61}$$

2. If diameter of driven wheel(or) larger pulley D in mm is not given, calculate D (PSG 7.61)

$$D = d \times \frac{n_1}{n_2} \times \eta$$

$\eta = 0.98$ or may be neglected

Calculate

$$\text{Speed ratio, } i = \frac{D}{d} = \frac{n_1}{n_2}$$

3. Belt speed, S

$$S = \frac{\pi \times d \times n_1}{60 \times 1000} = \frac{\pi \times D \times n_2}{60 \times 1000} \quad \text{m/s}$$

4. Nominal pitch length of belt(PSG 7.61)

$$L = 2C + \frac{\pi}{2}(D + d) + \frac{(D - d)^2}{4C}$$

Correct the length to std. length (PSG7.58 to &7.60);
 And select the length correction factor F_c

5. Transmitting capacity, kW based on belt section PSG 7.62 – 1st & 2nd Table

Equivalent diameter of smaller pulley, d_e

Select small pulley factor (F_b) based on speed ratio, i from PSG 7.62 II table

$$d_e = d \times F_b$$

Calculate kW

Belt cross-section symbol	Formula	Maximum value of d_e in the formula mm
A	$kW = \left(0.45 S^{-0.09} - \frac{19.62}{d_e} - 0.765 \times 10^{-4} S^2\right) S$	125
B	$kW = \left(0.79 S^{-0.09} - \frac{50.8}{d_e} - 1.32 \times 10^{-4} S^2\right) S$	175
C	$kW = \left(1.47 S^{-0.09} - \frac{142.7}{d_e} - 2.34 \times 10^{-4} S^2\right) S$	300
D	$kW = \left(3.22 S^{-0.09} - \frac{506.7}{d_e} - 4.78 \times 10^{-4} S^2\right) S$	425
E	$kW = \left(4.58 S^{-0.09} - \frac{952}{d_e} - 7.05 \times 10^{-4} S^2\right) S$	700

6. Find arc of contact(θ) arc of contact factor(F_d) -- PSG 7.68

$$\theta = 2 \cos^{-1} \left(\frac{D - d}{2C} \right)$$

$$\text{(or) } \theta = 180 - 60 \left(\frac{D - d}{C} \right)$$

Select arc of contact factor (F_d)

7. Select correction factor for service F_a PSG 7.69

By assuming 10 or 16 hrs service and type of duty

8 No of belts, n --- PSG 7.70

$$n = \frac{P \times F_a}{kW \times F_c \times F_d}$$

9. Exact Centre Distance, C (PSG 7.61)

$$A = \frac{L}{4} - \frac{\pi(D + d)}{8}$$

$$B = \frac{(D - d)^2}{8}$$

$$C = A + \sqrt{A^2 - B}$$

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