

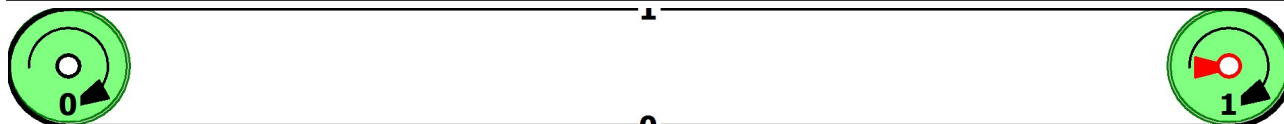
Belt

Eagle NRG

Belt part number: R 3920
Belt speed; Mass: 13.8 m/s; 0.761 kg/m
Belt power rating: 249.8 kW
Center Distance: 1680 mm

Belt width, Pitch: 105.0 mm; 14 mm
Belt noise: 75 dB(A)
Required; Actual service factor: 1.7; 2.8
Annual Energy Used (\$); Energy Costs: 122391; 0.15 €/kWh

Belt drive layout



Pulley

Pulley	X [mm]	Y [mm]	Teeth	Diameter [mm]	Flange diameter [mm]	Speed [revs/min]	Width [mm]	Weight [kg]
0	0.0	0.0	40	178.3	/	1480.0	133.0	20.5
1	1680.0	0.0	40	178.3	/	1480.0	133.0	20.5

Pulley	Sprocket part number & bushing	Shaft size [mm]/[mm]	Absorbed power [kW]	Required service factor	Side	Type
0	R 40 S-MPB	N/A	90.0	N/A	Inside	Fixed
1	R 40 S-MPB	N/A	90.0	1.7	Inside	Fixed

Hub loads & tensioning

Span	Operating hub load (used) [N]	Installation hub load (new; used) [N]	Deflection force (new; used) [N]	Deflection [mm]	Span length [mm]	Frequency (new;used) [Hz]
0	7446.2	10831.3; 7736.6	386.2; 289.6	26.3	1680.0	25.1; 21.2
1	7446.2	10831.3; 7736.6	386.2; 289.6	26.3	1680.0	25.1; 21.2

Installation strand tension

Installation strand tension (new, used): 5415.6 N 3868.3 N

Comments

Recommended center distance movement for installation and take up: -17.8 mm 5.0 mm

Check shaft lengths!

Ensure Driver and Driven bearings can handle hub load!

Drive must be properly aligned to give intended service life!

Service factor is greater than 2.5, contact Veyance for minimum tension requirements!

The belt and sprocket may not be a stock item. Contact your sales representative for availability and lead time!