

| Part Number   | Chain No. | Tooth  | Expansive Force | do    | di    | A     | а     |      |      |
|---------------|-----------|--------|-----------------|-------|-------|-------|-------|------|------|
| Fait Nulliber | Chain NO. | Teetin | (N)             | uu    | u     | A     | a     | min. | max. |
| 906-030-01    | 35        | 30     | 5.7             | 89.8  | 76.8  | 113   | 101   | 4    | 27   |
| 908-026-01    |           | 26     | 13.4            | 105.5 | 87.5  | 135.8 | 102   | 4.5  | 27   |
| 908-030-01    | 40        | 30     | 14.2            | 121.5 | 101.6 | 161.6 | 117   | 5    | 30   |
| 908-034-01    |           | 34     | 22              | 137.5 | 115.4 | 165   | 138.8 | 6    | 30   |
| 908-430-01    | 41        | 30     | 16.8            | 121.5 | 98    | 161.6 | 117   | 5    | 28   |
| 910-026-01    |           | 26     | 28.2            | 128.4 | 105   | 153   | 130   | 5.5  | 20   |
| 910-030-01    | 50        | 30     | 23              | 148   | 124.6 | 177   | 153   | 6.5  | 33   |
| 910-034-01    |           | 34     | 45.1            | 170   | 141   | 217   | 166   | 7.5  | 38   |
| 912-026-01    |           | 26     | 39.2            | 155   | 127.6 | 209.5 | 150   | 6.5  | 35   |
| 912-030-01    | 60        | 30     | 32.2            | 182.2 | 153.1 | 242   | 173   | 7.5  | 45   |
| 912-034-01    |           | 34     | 70.5            | 207.5 | 169.5 | 265   | 206   | 8.5  | 45   |
| 916-026-01    | 80        | 26     | 95.7            | 207   | 167   | 269   | 200   | 9    | 45   |
| 916-030-01    | 00        | 20     | 103             | 242   | 200   | 315   | 231   | 10.5 | 50   |
| 920-030-01    | 100       | 30     | 80.5            | 303.7 | 256.4 | 390   | 280   | 12.5 | 65   |
|               |           |        |                 |       |       |       |       |      |      |

| *) | Ensure | that | tensioning | is | done | in | the | stated | range. |
|----|--------|------|------------|----|------|----|-----|--------|--------|
|----|--------|------|------------|----|------|----|-----|--------|--------|

| 品番         | D=do-S max. | Allowable Chain Speed<br>(m/s) | Weight<br>(g) |
|------------|-------------|--------------------------------|---------------|
| 906-030-01 | 62.8        | 5.2                            | 7             |
| 908-026-01 | 78.5        | 7.5                            | 12            |
| 908-030-01 | 91.5        | 8.6                            | 19            |
| 908-034-01 | 107.5       | 8.8                            | 26            |
| 908-430-01 | 91.5        | 7.5                            | 19            |
| 910-026-01 | 100.4       | 4.2                            | 24            |
| 910-030-01 | 115         | 0.0                            | 30            |
| 910-034-01 | 132         | 8.8                            | 55            |
| 912-026-01 | 120         | 5.4                            | 46            |
| 912-030-01 | 137.2       | 6.2                            | 65            |
| 912-034-01 | 162.5       | 6.4                            | 93            |
| 916-026-01 | 162         | 5.7                            | 116           |
| 916-030-01 | 192         | 6.6                            | 150           |
| 920-030-01 | 238.7       | 7                              | 340           |

**Technical Information** Working temperature : -20 to 70℃



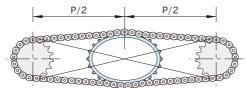
#### Features

- · Provides tension automatically and dampens vibrations
- ·Ensures smooth chain drive with a small amount of tension.
- $\cdot No$  need of mounting arrangements.
- ·Can be installed in a matter of seconds with no tools. No adjustments are needed after installation.
- Allows reducing driving noise, preventing damage to chains, sprockets, bearings, etc., and prolonging the lifetime of the drive unit.
- ·No need of lubrication.
- ·Can be used for both normal and reverse chain rotations.
- ·Can be used in both horizontal and vertical chain drive applications.
- ·Can be used even in watery or dusty environments, for a wide variety of applications.

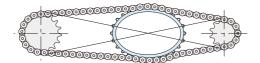
### **Application Examples**

- ·Roll-Ring Chain Tensioners are almost as long in lifetime as chains.
- It is recommended that these Tensioners be replaced when chains are replaced.
- ·Ensure that a Roll-Ring Chain Tensioner

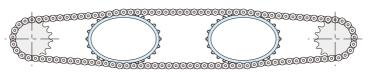
 $\langle$ Center Installation for Transmission Ratio of 1:1 $\rangle$ 



 $\langle$ Asymmetric Installation for Transmission Ratio Greater Than 1: 1 $\rangle$ 



⟨Double Installation for Long Axial Distance Drive⟩ •Use 2 Roll-Ring Chain Tensioners.



⟨Parallel Installation for Multirow-chain Drive⟩.Roll-Ring Chain Tensioners can be installed parallel to each other.



〈Vertical Installation〉

## How To Determine Installation Location

### Install to existing chain drive

#### [Step 1] Check the chain type

Before ckecking the chaing type, turn a switch or a power source off of the existing chain drive to work under safe conditions.

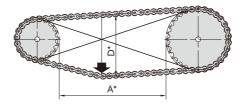


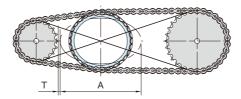
# [Step 2] Measure max distance of the chain strands

Measure max distance between the chain strands (with one side of the strands is tensioned) at the intersection of tangent lines to the sprockets' pitch circle. : D\*

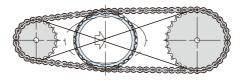
 $D^* > D$  and  $D^* < d$ 

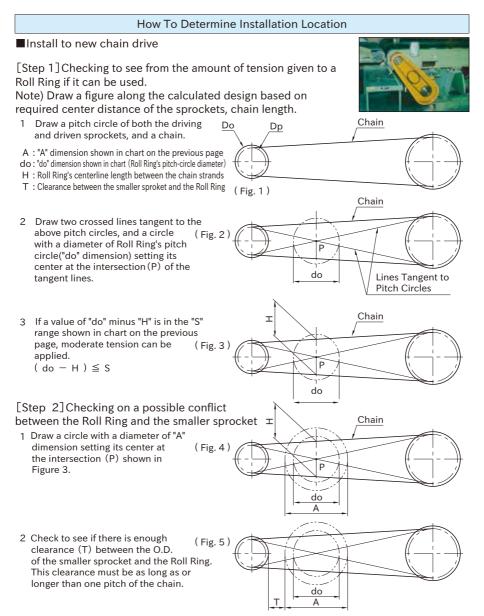
D:Height at max compression do:Height without compression





If there is a conflict between the Roll Ring and the smaller sprocket or the clearance is shorter than one pitch of the chain, adjust the location of the Roll Ring.





[Step 3]Correcting Roll Ring's location if there is a conflict between the Roll Ring and the smaller sprocket

1 If the clearance (T) is shorter than one pitch of the chain, adjust the location of the Roll Ring by moving the intersection (P) in Figure 4 toward the larger sprocket. Redraw a circle with a diameter of Roll Ring's pitch circle ("do" dimension) and check again on the clearance (T).Considering the elongation of chain, the installation near side of the S max. value in the table is recommended.

Note) The installation instructions are just for reference to see the possibility of using Roll Rings and check on installation locations. We prepare 1 to 3 sizes of Roll Ring depending on chain types. Please note the prepared Roll Rings may not be used for some usage conditions.