How to Order a Hose Assembly

Hose Assembly Features

A DADCO hose assembly consists of a length of hose with a hose adapter at each end (Fig. 1).

FIG. 1

Determining an Order

To order a complete hose assembly follow steps 1–4 of this bulletin.

STEP 1. Select appropriate hose type.

DADCOFLEX

90.250 (Y-250) Hose
+ Accepts both reusable and permanent, crimped adapters
+ Can be assembled in field without additional tools using reusable adapters
+ Ideal for open-flow systems with surging pressure below 190 bar (2750 psi)
+ Can be linked with a surge tank
  – 190 bar (2750 psi) is maximum for surging pressure

DADCOFLEX

90.400 (Y-400) Hose
+ Can withstand high pressures while maintaining a good flow rate
+ Can be linked with a surge tank
  – Least flexible bend radius
  – Can be used with permanent fittings only

DADCOFLEX

90.700 (Y-700) Hose
+ Offers the smallest possible bend radius available for flexible hose
+ Compatible with mini-fittings for the MINILink® System and DADCO Zip-fittings.
  – Only permanent crimped adapters available
  – Cannot be linked with a surge tank

MINIFLEX®

90.500 (Y-500) Hose
+ Higher working pressure than 90.250 (Y-250) without sacrificing bend radius or flow rate
+ Can be linked with a surge tank
  – Only permanent crimped adapters available
  – Smaller selection of hose end fittings (ORFS and D-24 fittings)

DF Tubing
+ Extremely durable
+ Compact
  – Dimensions critical
  – No Flexibility

NOTE: To order DF Tubing it is necessary to provide a drawing to DADCO. Request Bulletin B02118B for more information.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>OD</th>
<th>ID</th>
<th>Working Pressure</th>
<th>Burst Pressure</th>
<th>Bend Radius</th>
<th>H Min. Length</th>
<th>Crimp Die</th>
</tr>
</thead>
<tbody>
<tr>
<td>90.250 (Y-250)</td>
<td>.12</td>
<td>.64</td>
<td>190 bar</td>
<td>758 bar</td>
<td>38</td>
<td>75</td>
<td>80C-P04J Red Die 82C-R01 Ring</td>
</tr>
<tr>
<td>90.400 (Y-400)</td>
<td>.13</td>
<td>.65</td>
<td>345 bar</td>
<td>1380 bar</td>
<td>50</td>
<td>85</td>
<td>80C-P04 Red Die 82C-R01 Ring</td>
</tr>
<tr>
<td>90.500 (Y-500)</td>
<td>.11</td>
<td>.5</td>
<td>345 bar</td>
<td>1380 bar</td>
<td>38</td>
<td>80</td>
<td>80C-P03 Gray Die 82C-R01 Ring</td>
</tr>
<tr>
<td>90.700 (Y-700)</td>
<td>.05</td>
<td>.2</td>
<td>630 bar</td>
<td>1890 bar</td>
<td>20</td>
<td>75</td>
<td>Mini-Crimp 90.710.8 No Ring Required</td>
</tr>
<tr>
<td>90.705 (Y-705)</td>
<td>.05</td>
<td>.2</td>
<td>630 bar</td>
<td>1940 bar</td>
<td>20</td>
<td>75</td>
<td></td>
</tr>
<tr>
<td>DF Tubing</td>
<td>.64</td>
<td>.45</td>
<td>260 bar</td>
<td>1000 bar</td>
<td>15.9</td>
<td>70</td>
<td>Assembly at DADCO</td>
</tr>
</tbody>
</table>

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STEP 2. Determine the configuration of the hose assembly. See drawings below for L reference points.

An “I” orientation is with two straight fittings or a straight and an angled (Fig. 1 and Fig. 2).
A “C” orientation is with two angled fittings facing the same direction (Fig. 3).
An “S” orientation is with two angled fittings each facing a different direction (Fig. 4).

**STEP 3.** Choose the hose adapters to suit your hose type, orientation and system requirements. Refer to Linked System Components Catalog for hose adapter dimensions.

**STEP 4.** Complete hose assembly callout. Fill in the information gathered in steps 1-3.

**Example:**
Step 1 = 90.250 Hose,  
Step 2 = 643.651,  
Step 3 = 600 mm. Also, specify orientation, see Step 2.

<table>
<thead>
<tr>
<th>Hose Type</th>
<th>Hose Type Adapter Type</th>
<th>Hose Adapter Part No.</th>
<th>Geom</th>
</tr>
</thead>
<tbody>
<tr>
<td>90.250 (Y-250)</td>
<td>Reusable</td>
<td>90.504.643 S-643</td>
<td>Compact</td>
</tr>
<tr>
<td></td>
<td></td>
<td>90.504.651 S-651</td>
<td>Retractable</td>
</tr>
<tr>
<td></td>
<td></td>
<td>90.504.654 S-654</td>
<td>45°</td>
</tr>
<tr>
<td></td>
<td></td>
<td>90.504.659 S-659</td>
<td>90°</td>
</tr>
<tr>
<td>90.250/90.400</td>
<td>Permanent</td>
<td>90.504.743 S-743</td>
<td>Compact</td>
</tr>
<tr>
<td>(Y-250/Y-400)</td>
<td></td>
<td>90.504.751 S-751</td>
<td>Retractable</td>
</tr>
<tr>
<td></td>
<td></td>
<td>90.504.754 S-754</td>
<td>45°</td>
</tr>
<tr>
<td></td>
<td></td>
<td>90.504.758 S-758</td>
<td>90° ext.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>90.504.759 S-759</td>
<td>90°</td>
</tr>
<tr>
<td>90.500 (Y-500)</td>
<td>Permanent</td>
<td>90.504.843 S-843</td>
<td>Compact</td>
</tr>
<tr>
<td></td>
<td></td>
<td>90.504.851 S-851</td>
<td>Retractable</td>
</tr>
<tr>
<td></td>
<td></td>
<td>90.504.858 S-858</td>
<td>90° ext.</td>
</tr>
<tr>
<td>90.700/90.705</td>
<td>Permanent</td>
<td>90.504.943 S-943</td>
<td>Straight</td>
</tr>
<tr>
<td>(Y-700/Y-705)</td>
<td></td>
<td>90.504.954 S-954</td>
<td>45°</td>
</tr>
<tr>
<td></td>
<td></td>
<td>90.601.943 L-943</td>
<td>Straight</td>
</tr>
</tbody>
</table>

**Ordering Example:**

90.250. 643.651. 600.  I

**Hose Type**

(250, 400, 500, or 700)

**NOTE:** For DF Tubing it is necessary to provide a drawing to DADCO.

**Hose Adapter(s):**

**NOTE:** Please specify “S” or “L” in the ordering code for the two hose adapters ending in 943.

Example: 90.700.S943.L943.600.I

For those instances where a customer prefers to have DADCO provide a finished system, DADCO will mount the cylinders to a SMS® plate, pipe and test the system, and deliver it ready to fasten to the die. Contact DADCO for more information.