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
(Y-500 example)

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

PHASING OUT
+ Can be assembled in field without additional tools using reusable adapters
+ Can be linked with a surge tank
  – 190 bar (2750 psi) is maximum for surging pressure
  – Difficult to assemble

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
90.500 (Y-500) 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®
90.700 (Y-700) Hose
+ Higher working pressure than 90.250 (Y-250) without sacrificing bend radius or flow rate
+ Can be linked with a surge tank
– 190 bar (2750 psi) is maximum for surging pressure
– Difficult to assemble

DF Tubing DF锥锥
+ 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.

Part No. | OD  | ID  | Working Pressure | Burst Pressure | Bend Radius | Crimp Die | Crimp Diameter
---|---|---|---|---|---|---|---
• 90.700  (Y-700)  | 5.20  | .08 | 630 bar | 1890 bar | 20 | Mini-Crimp 90.710.8 | 7.00 – 7.25
| 90.705  (Y-705)  | 5.20  | .08 | 630 bar | 1940 bar | 20 | No Ring Required | .276 – .285
| 90.500  (Y-500)  | .43  | .19 | 345 bar | 1380 bar | 38 | 80C-P03 Gray Die | 12.19 – 12.70
| 90.400  (Y-400)  | .51  | .25 | 345 bar | 1380 bar | 50 | 80C-P04 Red Die | 14.22 – 14.73
| 90.250** (Y-250) | .47  | .25 | 190 bar | 758 bar | 38 | 80C-P04J Red Die | 13.59 – 14.10
| DF Tubing | 6.4  | .25 | 260 bar | 1000 bar | 15.9 | Assembly at DADCO | Assembly at DADCO

** NOT FOR NEW DESIGNS

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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 (C20100) for hose adapter dimensions.

<table>
<thead>
<tr>
<th>Hose Type</th>
<th>Hose Adapter Type</th>
<th>Hose Adapter Part No.</th>
<th>Geom</th>
</tr>
</thead>
<tbody>
<tr>
<td>90.700/90.705 (Y-700/705)</td>
<td>Permanent/Reusable</td>
<td>90.504.943 S-943</td>
<td>Straight</td>
</tr>
<tr>
<td>90.500 (Y-500)</td>
<td>Permanent/Reusable</td>
<td>90.504.943 S-943</td>
<td>Straight</td>
</tr>
<tr>
<td>90.400 (Y-400)</td>
<td>Permanent</td>
<td>90.504.743 S-743</td>
<td>Compact</td>
</tr>
<tr>
<td>90.250 (Y-250)</td>
<td>Reusable</td>
<td>90.504.643 S-643</td>
<td>Compact</td>
</tr>
</tbody>
</table>


Example:
Step 1 = 90.500 Hose,
Step 2 = 643.651,
Step 3 = 600 mm. Also, specify orientation, see Step 2.

Ordering Example:

Hose Type: 90.500, S843, S854, 600.
Orientation: Hose adapter orientation: I, C or S
Length of Hose Assembly (L) in mm
Distance between sealing faces

Sealing Type | Example  |
-------------|----------|
ORFS         | S943     |
D-24         | D843     |
Mini         | L943     |
Zip          | B943     |

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. For more information, check out C13106D or contact DADCO.