

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

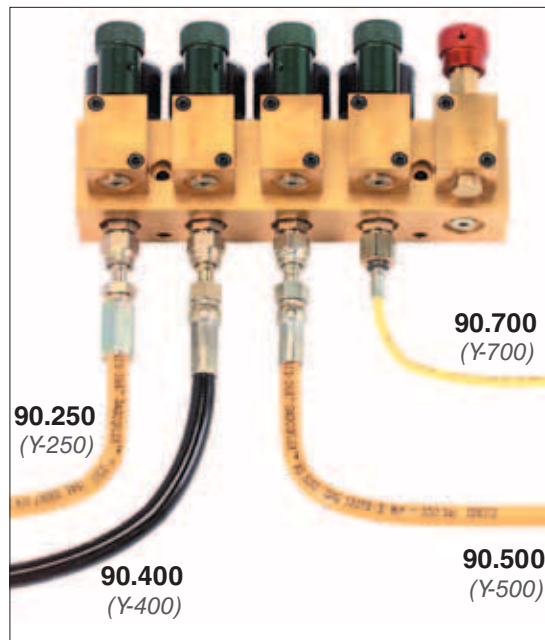
90.250 (Y-250) Hose

- + 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



MINIFLEX®

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

DADCOFLEX

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 DF.____

- + 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 | H Min. Length | Crimp Die |
|-------------------|------------|------------|---------------------|-----------------------|--------------|---------------|--|
| 90.250 (Y-250) | 12 .47 | 6.4 .25 | 190 bar 2750 psi | 758 bar 11000 psi | 38 1.50 | 75 3.35 | 80C-P04J Red Die 82C-R01 Ring |
| 90.400 (Y-400) | 13 .51 | 6.5 .25 | 345 bar 5000 psi | 1380 bar 20000 psi | 50 1.97 | 85 1.97 | 80C-P04 Red Die 82C-R01 Ring |
| 90.500 (Y-500) | 11 .43 | 5 .19 | 345 bar 5000 psi | 1380 bar 20000 psi | 38 1.50 | 80 3.15 | 80C-P03 Gray Die 82C-R01 Ring |
| 90.700 (Y-700) | 5 .20 | 2 .08 | 630 bar 9135 psi | 1890 bar 27405 psi | 20 .79 | 75 2.95 | Mini-Crimp 90.710.8 No Ring Required |
| 90.705 (Y-705) | 5 .20 | 2 .08 | 630 bar 9135 psi | 1940 bar 28130 psi | 20 .79 | 75 2.95 | |
| DF Tubing | 6.4 .25 | 4.5 .18 | 260 bar 3750 psi | 1000 bar 15000 psi | 15.9 .625 | 70 2.76 | Assembly at DADCO |

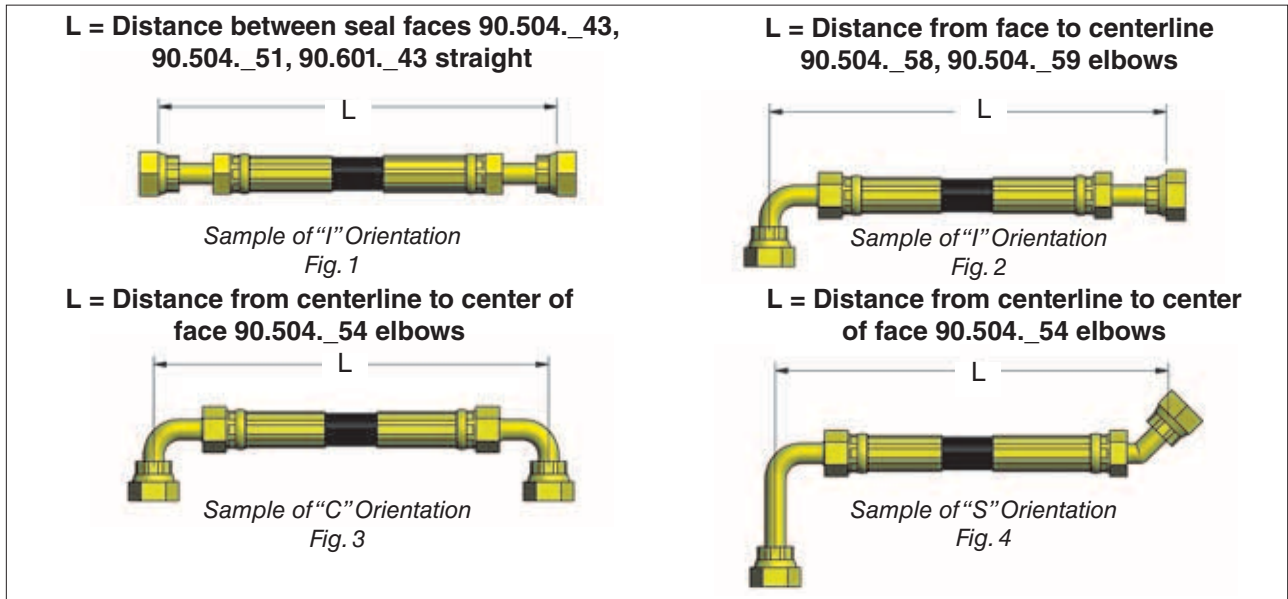
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STEP 2. Determine the configuration of the hose assembly. See drawings below for L reference points.

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.

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

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

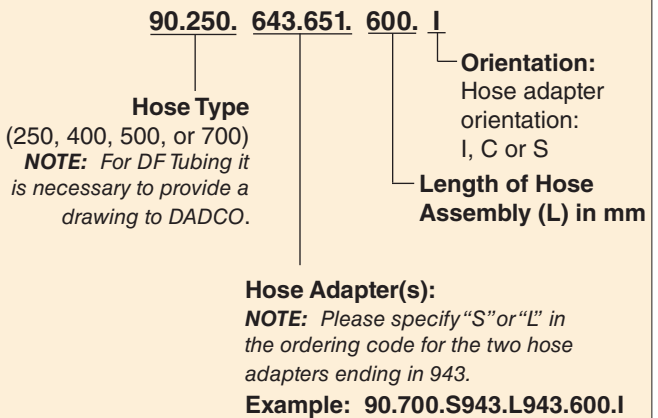
Example:

Step 1 = 90.250 Hose,

Step 2 = 643.651,

Step 3 = 600 mm. Also, specify orientation, see Step 2.

Ordering Example:



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.

