

## 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

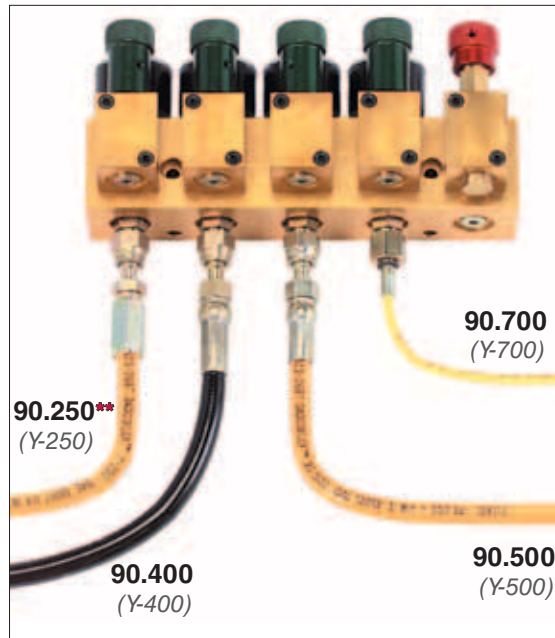
### PHASING OUT

- + 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



##### 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	Crimp Die	Crimp Diameter
• 90.700 (Y-700)	5 .20	2 .08	630 bar 9135 psi	1890 bar 27405 psi	20 .79	Mini-Crimp 90.710.8 No Ring Required	7.00 – 7.25 .276 – .285
90.705 (Y-705)	5 .20	2 .08	630 bar 9135 psi	1940 bar 28130 psi	20 .79		
• 90.500 (Y-500)	11 .43	5 .19	345 bar 5000 psi	1380 bar 20000 psi	38 1.50	80C-P03 Gray Die 82C-R01 Ring	12.19 – 12.70 .480 – .500
90.400 (Y-400)	13 .51	6.5 .25	345 bar 5000 psi	1380 bar 20000 psi	50 1.97	80C-P04 Red Die 82C-R01 Ring	14.22 – 14.73 .560 – .580
90.250** (Y-250)	12 .47	6.4 .25	190 bar 2750 psi	758 bar 11000 psi	38 1.50	80C-P04J Red Die 82C-R01 Ring	13.59 – 14.10 .535 – .555
DF Tubing	6.4 .25	4.5 .18	260 bar 3750 psi	1000 bar 15000 psi	15.9 .625	Assembly at DADCO	Assembly at DADCO

• Preferred Sizes

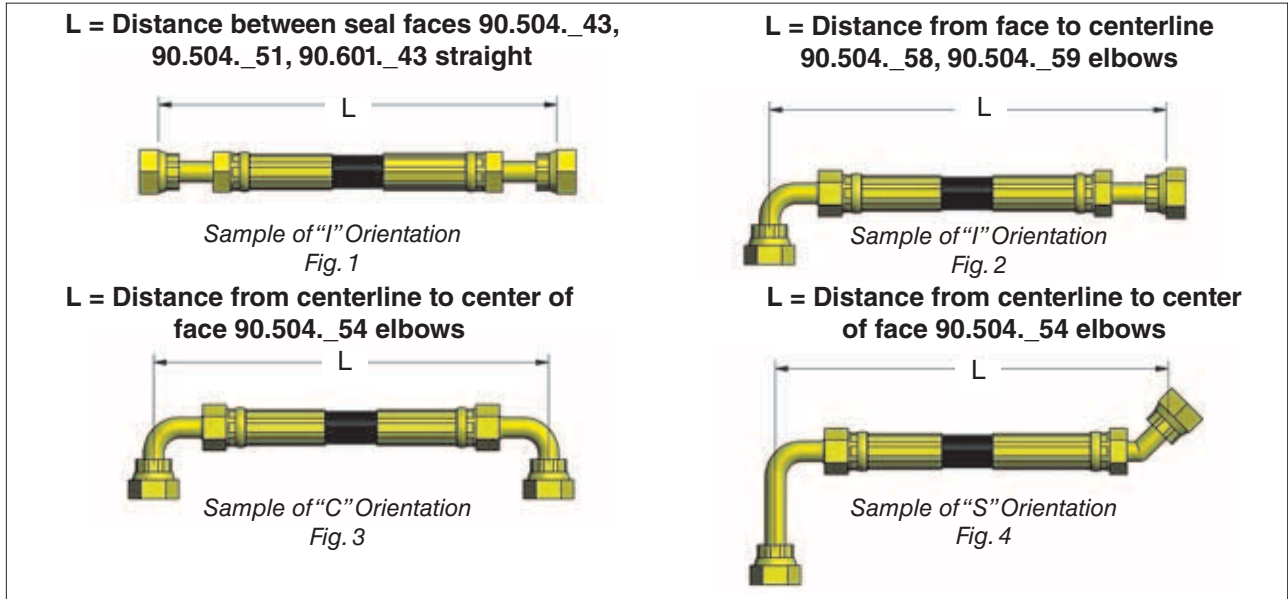
**\*\* NOT FOR NEW DESIGNS**

### 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.

Hose Type	Hose Adapter Type	Hose Adapter Part No.	Geom
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
90.500 (Y-500)	Permanent / Reusable	90.504.943 S-943	Straight
		90.504.954 S-954	45°
		90.601.943 L-943	Straight
		90.504.343 S-343	Compact
90.400 (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°
		• 90.504.643 S-643	Compact
90.250 (Y-250)	Reusable	• 90.504.651 S-651	Retractable
		• 90.504.654 S-654	45°
		• 90.504.659 S-659	90°
		• PHASING OUT	

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

Example:

Step 1 = 90.500 Hose,

Step 2 = 643.651,

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

### Ordering Example:

**90.500. S843. S854. 600. I**

**Hose Type:**  
(700, 705, 500, or 400)  
**NOTE:** For DF Tubing it is necessary to provide a drawing to DADCO.

**Hose Adapter(s):**

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

**Orientation:**  
Hose adapter orientation:  
I, C or S

**Length of Hose Assembly (L) in mm**  
Distance between sealing faces

Reference appropriate sealing type prefix (S, D, L or B).

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.

