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## PRODUCT INFORMATION

SERVICE BULLETIN #54

February 25, 1992

TO: All Midship Customers

SUBJECT: HALE BUTTERFLY VALVE INSTALLATION

We share with you some concerns regarding field reports of trapped air and water hammer in conjunction with the use of butterfly valves.

The Hale Butterfly Valve Series of Models is designed to be compact and flexible to meet virtually all suction requirements; front, rear, and sides. In all installations a method must be provided to bleed off incoming air and eliminate potential water hammer. We have enclosed our drawing Plate 684B for reference to recommendations of special suction tubes when our butterfly valve Model 60WP is used for side suction application. The special suction tubes provide a 3/4" NPT tap to accommodate the installation of a Hale Model HD Drain Valve.

The chart provided on Plate 684B will assist you in identifying the special tubes available relative to suction diameter and length.

Use of the butterfly valve for front or rear suction requirements should also include a method to eliminate the potential of trapped air. However, since the total fabrication of front and rear suction is accomplished by you, there is little we can provide beyond the recommendation to provide a method to bleed-off the potential air.

We strongly urge you to ensure the use of bleed-off valves on all butterfly valve installations. Please contact us if we can offer any further assistance on this matter.

Very truly yours,

Craig B. Neal  
Manager Customer Service

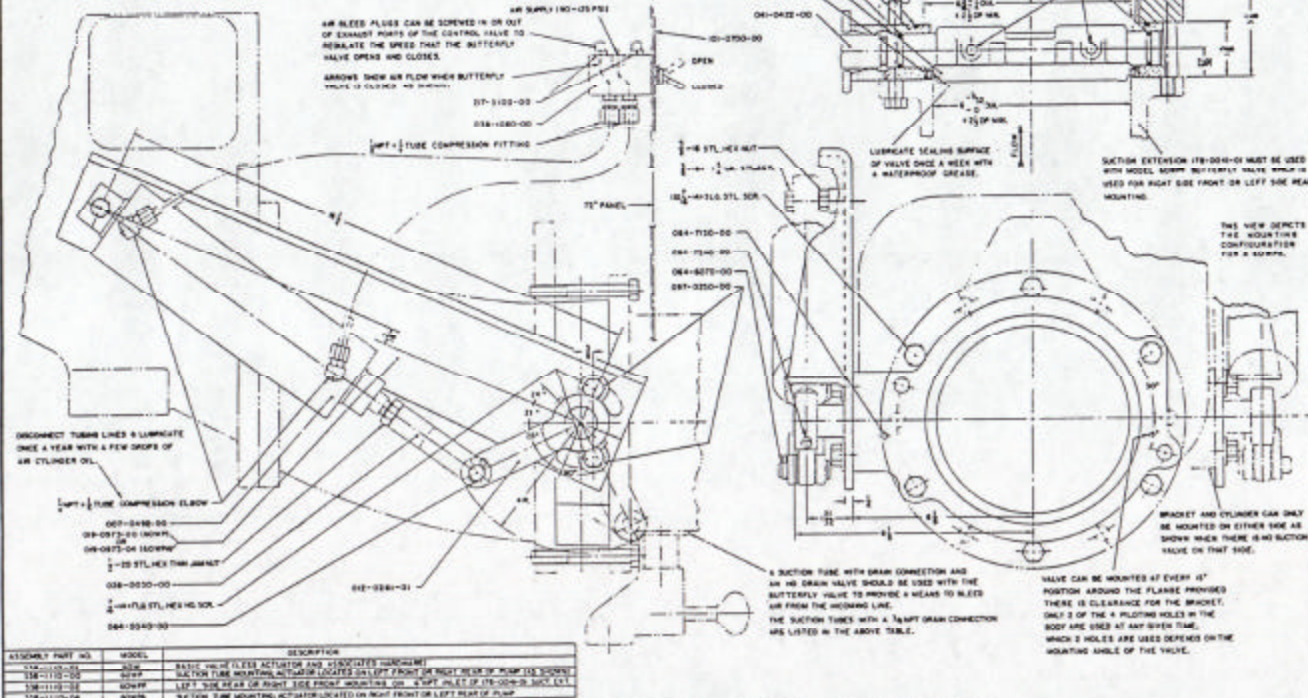
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AVAILABLE SUCTION TUBES WITH DRAIN CONNECTION			
IN. THREAD	LENGTH	MATERIAL	PART NUMBER
1/2	6	CAST IRON	007-0000-00
1/2	8		007-0000-01
1/2	10		007-0000-02
1/2	12		007-0000-03
1/2	14		007-0000-04
1/2	16	BRONZE	007-0000-05
1/2	18		007-0000-06
1/2	20		007-0000-07

**CYLINDER INSTALLATION INSTRUCTIONS**  
 ATTACH Yoke and Locknut to cylinder, threading as far as possible on to piston shaft. Assemble retaining parts without tightening (2) bracket mounting screws. Raise piston is fully retracted, then raise or lower the bracket until screw is fully closed. Tighten screws. If it is desirable for the bracket to be raised, lock yoke further down shaft and readjust bracket as before.

THIS HALF OF VIEW SHOWS  
60 WP ARRANGEMENT

THIS HALF OF VIEW SHOWS  
60 WPF ARRANGEMENT



# HALE TYPE 60WP SERIES BUTTERFLY VALVE (AIR OPERATION)

HALE FIRE PUMP CO.  
CONROCK, PA.  
3-1-58 HEP

PLATE NO. 684B