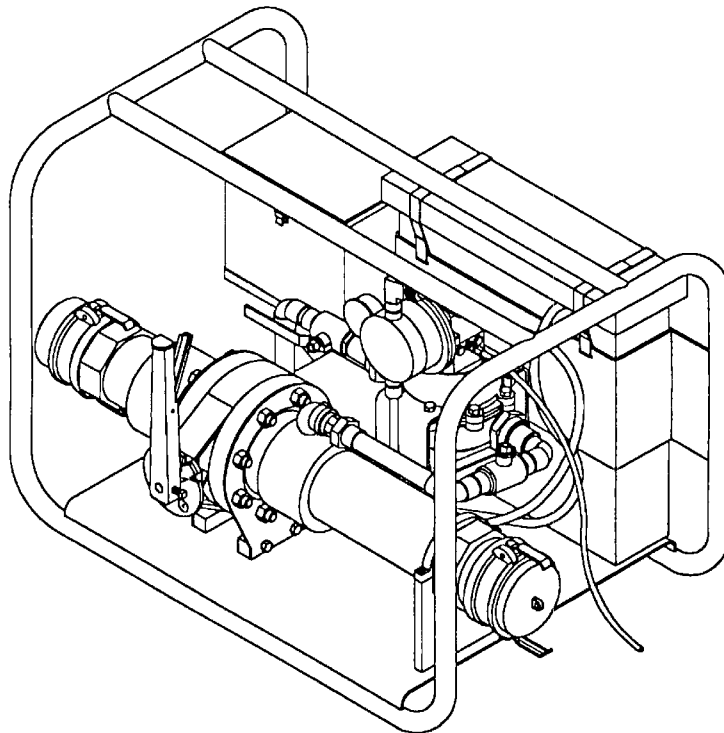


TM 10-4610-244-23P
TM 09476B-23P/2

TECHNICAL MANUAL

UNIT AND DIRECT SUPPORT MAINTENANCE
REPAIR PARTS AND SPECIAL TOOLS LIST

HYPOCHLORINATION UNIT
NSN 4610-01-364-4485
Model AHY001



DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

HEADQUARTERS, DEPARTMENT OF THE ARMY
AND HEADQUARTERS, U.S. MARINE CORPS
14 MARCH 1994

TECHNICAL MANUAL
NOS. 10-4610-244-23P
09476B-23P/2

HEADQUARTERS
DEPARTMENT OF THE ARMY,
AND HEADQUARTERS U.S. MARINE CORPS
WASHINGTON D.C., 14 March 1994

TECHNICAL MANUAL

Unit and Direct Support Maintenance
Repair Parts and Special Tools List for

HYPOCHLORINATION UNIT
NSN 4610-01-364-4485
MODEL AHY001

Current as of 2 March 1994

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual if you find any mistakes or if you know of a way to improve the procedures, please let us know. Mail your letter, DA Form 2028 (Recommended Changes to Publications and Blank Forms), or DA Form 2028-2 located in the back of this manual directly to Commander, US Army Aviation and Troop Command, ATTN: AMSAT-I-MP, 4300 Goodfellow Blvd, St Louis, MO 63120-1798. A reply will be furnished directly to you.

DISTRIBUTION STATEMENT A: Approved for public release, distribution is unlimited

TABLE OF CONTENTS

	PAGE	ILLUS/ FIGURE
Section I. Introduction	1-1	
Section II. Repair Part		
Group 00 Hypochlorination Unit		
Hypochlorination Unit		1
Group 01 Proportioning Pump		
Proportioning Pump		2
Valves and Tubing		3
Pumphead Assembly		4
Upper Housing Assembly		5
Lower Housing Assembly		6
Group 02 Mainline Pipe Assembly		
Piping Assembly		7
Group 03 Frame Assembly		
Frame Assembly		8
Group 04 Accessory Box		
Accessory Box and Reservoir		9

		PAGE	ILLUS/ FIGURE
Group 05	Cover		
	Cover		10
Group 06	Bulk		
	Bulk		Bulk
Section III.	Special Tools List (Not Applicable)		
Section IV.	Cross Reference Index		
	National Stock Number Index	I-1	
	Part Number Index.....	I-2	
	Figure and Item Number Index.....	I-5	

UNIT AND DIRECT SUPPORT MAINTENANCE
REPAIR PARTS AND SPECIAL TOOLS LIST

SECTION I. INTRODUCTION

1. Scope.

This RPSTL lists and authorizes spares and repair parts; special tools; special test, measurement, and diagnostic equipment (TMDE); and other special support equipment required for performance of organizational, direct support, and general support maintenance of the hypochlorination unit. It authorizes the requisitioning, issue, and disposition of spares, repair parts and special tools as indicated by the source, maintenance and recoverability (SMR) codes.

2. General.

In addition to Section I, Introduction, this Repair Parts and Special Tools List is divided into the following sections:

a. Section II - Repair Parts List. A list of spares and repair parts authorized by this RPSTL for use in the performance of maintenance. The lists also include parts which must be removed for replacement of the authorized parts. Parts lists are composed of functional groups in ascending alphanumeric sequence. Bulk materials are listed by item name in FIG BULK at the end of the section. Repair parts kits or sets are listed separately in their own functional group within Section II. Repair parts for repairable special tools are also listed in the section.

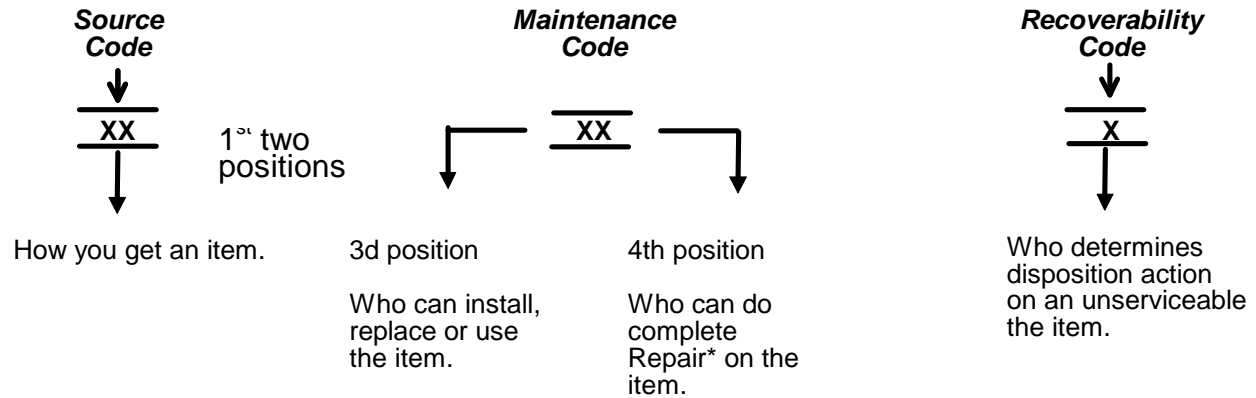
b. Section III - Special tools List. A list of special tools, special TMDE, and other special support equipment authorized by this RPSTL (as indicated by Basis of Issue (BOI) information in DESCRIPTION AND USABLE ON CODE (UOC) column) for the performance of maintenance.

c. Section IV - Cross-Reference Indexes. A list, in National Item Identification Number (NIIN) sequence, of all National stock numbered items appearing in the listings, followed by a list in alphanumeric sequence of all part numbers appearing in the listing. National stock numbers and part numbers are cross-referenced to each illustration figure and item number appearance. The figure and item number index lists figure and item number in alphanumeric sequence and cross-references NSN, FSCM and part number.

3. Explanation of Columns (Sections II and III).

a. ITEM NO. (Column 1). Indicates the number used to identify items called out in the illustration.

b. SMR CODE (Column (2)). The Source, Maintenance, and Recoverability (SMR) code is a 5-position code containing supply/requisitioning information, maintenance category authorization criteria, and disposition instruction, as shown in the following breakout:



*Complete Repair: Maintenance capacity, capability, and authority to perform all corrective maintenance tasks of the "Repair" function in a use/user environment in order to restore serviceability to a failed item.

(1) Source Code. The source code tells you how to get an item needed for maintenance, repair, or overhaul of an end item/equipment. Explanations of source codes follow:

Code	Explanation
PA PB PC** PD PE PF PG	<p>Stocked items; use the applicable NSN to request/requisition items with these source codes. They are authorized to the category indicated by the code entered in the 3rd position of the SMR code.</p> <p>**Note: Items coded PC are subject to deterioration.</p>
KD KF KB	<p>Items with these codes are not to be requested/requisitioned individually. They are part of a kit which is authorized to the maintenance category indicated in the 3rd position of the SMR code. The complete kit must be requisitioned and applied.</p>

- MO- (Made at org/
AVUM Level)
- MF- (Made at DS/
AVUM Level)
- MH- (Made at GS
Level)
- ML- (Made at Spe-
cialized Repair)
- MD- (Made at Depot)



Items with these codes are not to be requested/requisitioned individually. They must be made from bulk material which is identified by the part number in the DESCRIPTION AND USABLE ON CODE (UOC) column and listed in this RPSTL. If the item is authorized to you by the 3rd position code of the SMR code, but the source code indicates it is made at a higher level, order the item from the higher level of maintenance.

- AO- (Assembled by
org/AVUM Level)
- AF- (Assembled by
DS/AVIM Level)
- AH- (Assembled by
GS Category)
- AL- (Assembled by
SRA)
- AD- (Assembled by
Depot)



Items with these codes are not to be requested/requisitioned individually. The parts that makeup the assembled item must be requisitioned or fabricated and assembled at the level of maintenance indicated by the source code. If the 3rd position code of the SMR code authorizes you to replace the item, but the source code indicates the items is assembled at a higher level, order the item from the higher level of maintenance.

- XA - Do not requisition an "XA"-coded item. Order its next higher assembly. (Also, refer to the NOTE below.)
- XB - If an "XB" item is not available from salvage, order it using the FSCM and part number given.
- XC - Installation drawing, diagram, instruction sheet, field service drawing that is identified by manufacturer's part number.
- XD - Item is not stocked. Order an "XD"-coded item through normal supply channels using the FSCM and part number given, if no NSN is available.

NOTE: Cannibalization or controlled exchange, when authorized, may be used as a source of supply for items with the above source codes, except for those source coded "XA" or those aircraft support items restricted by requirements of AR 700-42.

(2) Maintenance Code. Maintenance codes tell you the level(s) of maintenance authorized to USE and REPAIR support items. The maintenance codes are entered in the third and fourth positions of the lowest maintenance level

authorized to remove, replace, and use an item. The maintenance code entered in the third position will indicate authorization to one of the following levels of maintenance.

Code	Application/Explanation
C	-Crew or operator maintenance done within organizational or aviation unit maintenance.
O	-Organizational or aviation unit category can remove, replace, and use the item.
F	-Direct support or aviation intermediate level can remove, replace, and use the item.

(b) the maintenance code entered in the fourth position tells whether or not the item is to be repaired and identifies the lowest maintenance level able to do complete repair (i.e., perform all authorized repair functions). (NOTE: Some limited repair may be done on the item at a lower level of maintenance, if authorized by the Maintenance Allocation Chart (MAC) and SMR codes.) This position will contain one of the following maintenance codes.

Code	Application/Explanation
O	-Organizational or aviation unit is the lowest level that can do complete repair of the item.
F	-Direct support or aviation intermediate is the lowest level that can do complete repair of the item.
Z	-Nonrepairable. No repair is authorized.
B	-No repair is authorized. No parts or special tools are authorized for the maintenance of a "B" coded item. However, the item may be reconditioned by adjusting, lubricating, etc., at the user level.

(3) Recoverability Code. Recoverability codes are assigned to items to indicate the disposition action on unserviceable items. The recoverability code is entered in the fifth position of the SMR Code as follows:

Recoverability Code	Application/Explanation
------------------------	-------------------------

Z	-Nonrepairable item. When unserviceable, condemn and dispose of the item at the level of maintenance shown in 3rd position of SMR Code.
O	-Reparable item. When uneconomically reparable, condemn and dispose of the item at organizational or aviation unit level.
F	-Reparable item. When uneconomically reparable, condemn and dispose of the item at the direct support or aviation intermediate level.
H	-Reparable item. When uneconomically reparable, condemn and dispose of the item at the general support level.
D	-Reparable item. When beyond lower level repair capability, return to depot. Condemnation and disposal of item not authorized below depot level.

c. FSCM (Column (3)). The Federal Supply Code for Manufacturer (FSCM) is a 5-digit numeric code which is used to identify the manufacturer, distributor or Government agency, etc., that supplies the item.

d. PART NUMBER (Column (4)). Indicates the primary number used by the manufacturer (individual, company, firm, corporation, or Government activity), which controls the design and characteristics of the item by means of its engineering drawings, specification standards, and inspection requirements to identify an item or range of items.

NOTE: When you use a NSN to requisition an item, the item you receive may have a different part number from the part ordered.

e. DESCRIPTION AND USABLE ON CODE (UOC) (Column (5)). This column includes the following information:

- (1) The Federal item name and, when required, a minimum description to identify the item.
- (2) Items that are included in kits and sets are listed below the name of the kit or set.
- (3) Spare/repair parts that make up an assembled item are listed immediately following the

assembled item line entry.

(4) Part numbers for bulk materials are referenced in this column in the line item entry for the item to be manufactured/fabricated.

(5) When the item is not used with all serial numbers of the same model, the effective serial numbers are shown on the last line(s) of the description (before UOC).

(6) The usable on code, when applicable (see paragraph 5, Special Information).

(7) In the Special Tools List section, the basis of issue (BOI) appears as the last line(s) in the entry for each special tool, special TMDE, and other special support equipment. When density of equipments supported exceeds density spread indicated in the basis of issue, the total authorization is increased proportionately.

(8) The statement "END OF FIGURE" appears just below the last item description in Column 5 for a given figure in both Section II and Section III.

f. QTY (Column (6)). The QTY (quantity per figure column) indicates the quantity of the item used in the breakout shown on the illustration figure, which is prepared for a functional group, subfunctional group, or an assembly. A "V" appearing in this column in lieu of a quantity indicates that the quantity is variable and the quantity may vary from application to application.

4. Explanation of Columns (Section IV).

a. NATIONAL STOCK NUMBER (NSN) INDEX.

(1) STOCK NUMBER column. This column lists the NSN by National item identification number (NIIN) sequence. The NIIN consists of the last nine digits of the NSN (for example, if the NSN is 5305-01-674-1467, the NIIN is 01-674-1467). When using this column to locate an item, ignore the first 4 digits of the NSN. However, the complete NSN should be used when ordering items by stock number.

(2) FIG. Column. This column lists the number of the figure where the item is identified/located. The figures are in numerical order in Sections II and III.

(3) ITEM Column. The item number identifies the item associated with the figure listed in the adjacent FIG. column. This item is also identified by the NSN listed on the same line.

b. PART NUMBER INDEX. Parts in this index are listed by part number in ascending alphanumeric sequence (i.e., vertical arrangement of letter and number combination which places the first letter or digit of each group in order A through Z, followed by the numbers 0 through 9 and each following letter or digit in like order).

(1) FSCM Column. The Federal Supply Code for Manufacturer (FSCM) is a 5-digit numeric code used to identify the manufacturer, distributor, or Government agency, etc., that supplies the item.

(2) PART NUMBER Column. Indicates the primary number used by the manufacturer (individual, firm, corporation, or Government activity), which controls the design and characteristics of the item by means of its engineering drawings, specification standards, and inspection requirements to identify an item or range of items.

(3) STOCK NUMBER Column. This column lists the NSN for the associated part number and manufacturer identified in the PART NUMBER and FSCM columns to the left.

(4) FIG. Column. This column lists the number of the figure where the item is identified/located in Sections II

and III.

(5) ITEM Column. The item number is that number assigned to the item as it appears in the figure referenced in the adjacent figure number column.

c. FIGURE AND ITEM NUMBER INDEX.

(1) FIG. Column. This column lists the number of the figure where the item is identified/located in Sections II and III.

(2) ITEM Column. The item number is that number assigned to the item as it appears in the figure referenced in the adjacent number column.

(3) STOCK NUMBER Column. This column lists the NSN for the item.

(4) FSCM Column. The Federal Supply Code for Manufacturer (FSCM) is a 5-digit numeric code used to identify the manufacturer, distributor, or Government agency, etc., that supplies the item.

(5) PART NUMBER Column. Indicates the primary number used by the manufacturer (individual, firm, corporation, or Government activity). which controls the design and characteristics or the item by means of its engineering drawings, specification standards, and inspection requirements to identify an item or range of items.

5. Special Information. Use the following subparagraphs as applicable.

a. USABLE ON CODE. The usable on code appears in the lower left corner of the Description column heading. Usable on codes are shown as "UOC: " in the Description Column (justified left) on the first line applicable item description/nomenclature. Uncoded items are applicable to all models. Identification of the usable on codes used in the RPSTL are:

<u>Code</u>	<u>Used On</u>
FHA	Model AHY001

b. KITS. Line item entries for repair parts kits appear in a group in Section II (see table of contents).

c. INDEX NUMBERS. Items which have the word BULK in the figure column will have an index number shown in the item number column. This index number is a cross-reference between the National Stock Number/Part Number Index and the bulk material list in Section II.

d. ASSOCIATED PUBLICATIONS. The publication(s) listed below pertain to the Hypochlorination Unit and its components:

<u>Publication</u>	<u>Short Title</u>
TM 10-4610-244-13	Maintenance Manual, Hypochlorination Unit

e. ILLUSTRATIONS - LISTING. The illustrations in this RPSTL are identical to those published in TM 10-4610-244-13 (Army) or TM09476B-13/1 (USMC). Only those parts codes "C" or "O" in the third position of the SMR Code are listed in the tabular listing; therefore, there may be a break in the item number sequence. Only illustrations containing organizational or aviation unit authorized items appear in this RPSTL.

6. How to Locate Repair Parts

a. When National Stock Number or Part Number is Not Known.

(1) First. Using the table of contents, determine the assembly group or subassembly group to which the item belongs. This is necessary since figures are prepared for assembly groups and subassembly groups, and listings are divided into the same groups.

(2) Second. Find the figure covering the assembly group or subassembly group to which the item belongs.

(3) Third. Identify the item on the figure and use the Figure and Item Number Index to find the NSN.

b. When National Stock Number or Part Number is Known.

(1) First. Using the National Stock Number or the Part Number Index, find the pertinent National Stock Number or Part Number. The NSN Index is in National Item Identification Number (NIIN) sequence (see 4.1(1)). The

part numbers in the Part Number Index are listed in ascending alphanumeric sequence (see 4.b). Both indexes cross-reference you to the illustration/figure and item number of the item you are looking for.

(2) Second. Turn to the figure and item number, verify that the item is the one you're looking for, then locate the item number in the repair parts list for the figure.

7. Abbreviations.

<u>Abbreviation</u>	<u>Explanation</u>
NIIN	National Item Identification Number (consists of the last 9 digits of the NSN)
RPSTL	Repair Parts and Special Tools List
SS	Stainless Steel

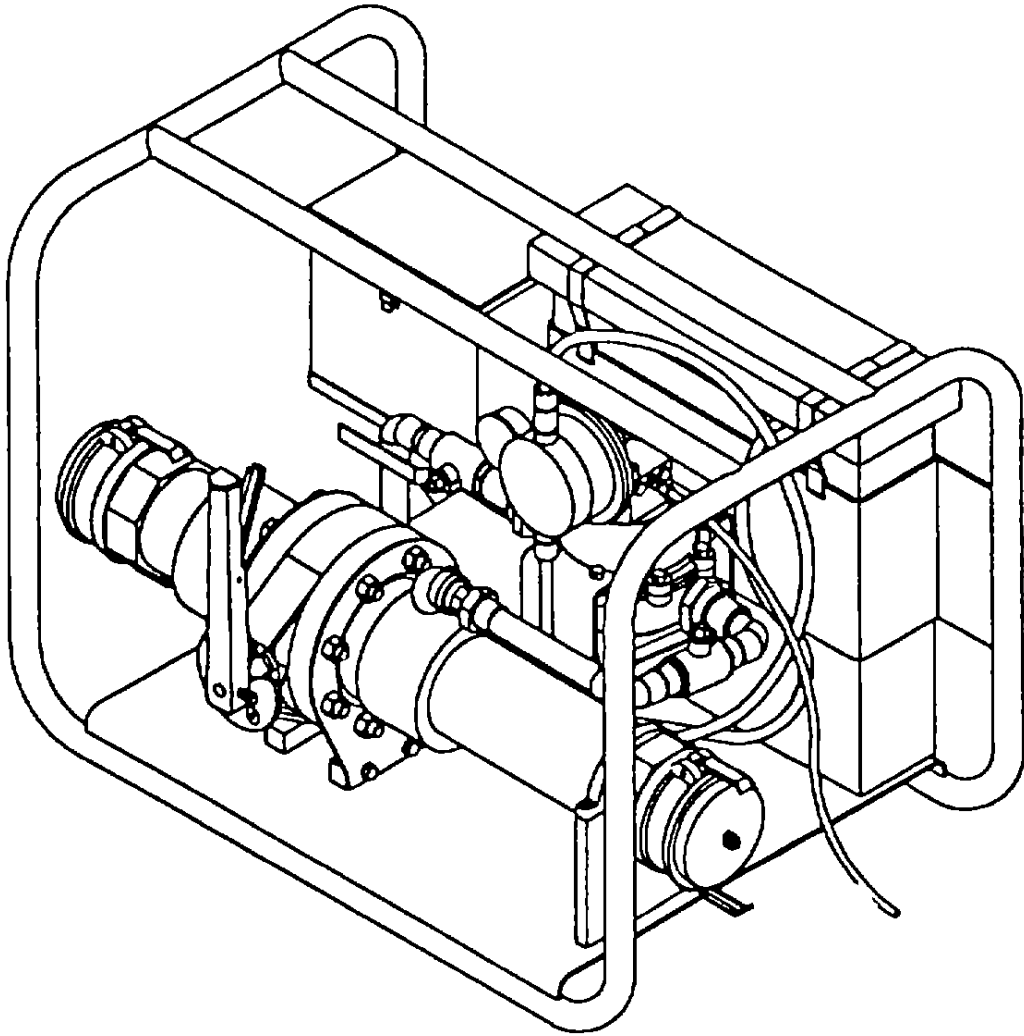


Figure 1. Hypochlorination Unit

SECTION II

TM 10-4610-244-23P
TM 09476B-23P/2

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
				GROUP 00 HYPOCHLORINATION UNIT	
				FIG. 1 HYPOCHLORINATION UNIT	
	PCOZZ	81348	OC114	CALCIUM HYPOCHLORIT	1
				END OF FIGURE	

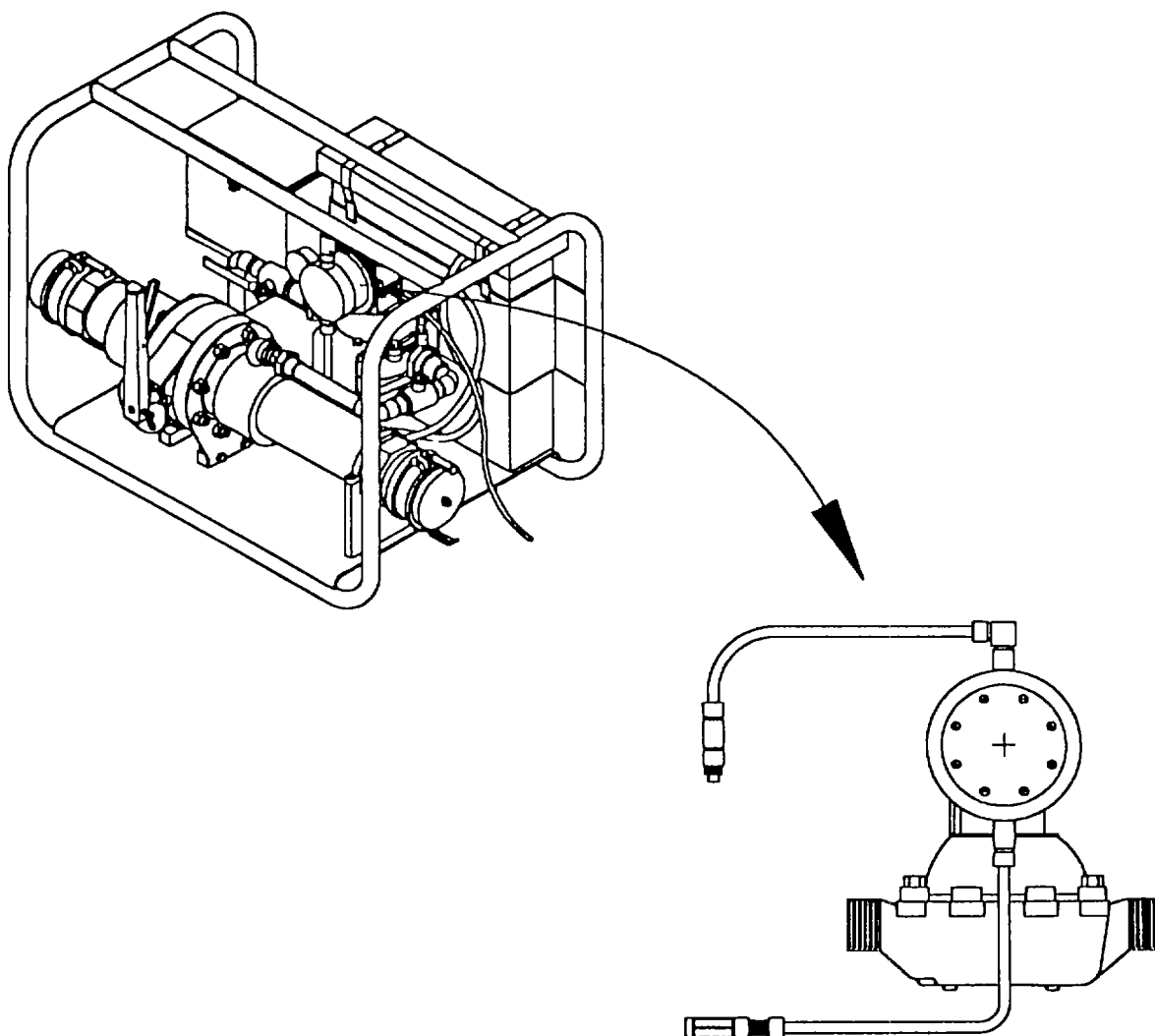


Figure 2. Proportioning Pump

SECTION II

TM 10-4610-244-23P
TM 09476B-23P/2

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
				GROUP 01 PROPORTIONING PUMP	
				FIG. 2 PROPORTIONING PUMP	
1	PBOFF	52848	AHY001-A	PROPORTIONING PUMP	1

END OF FIGURE

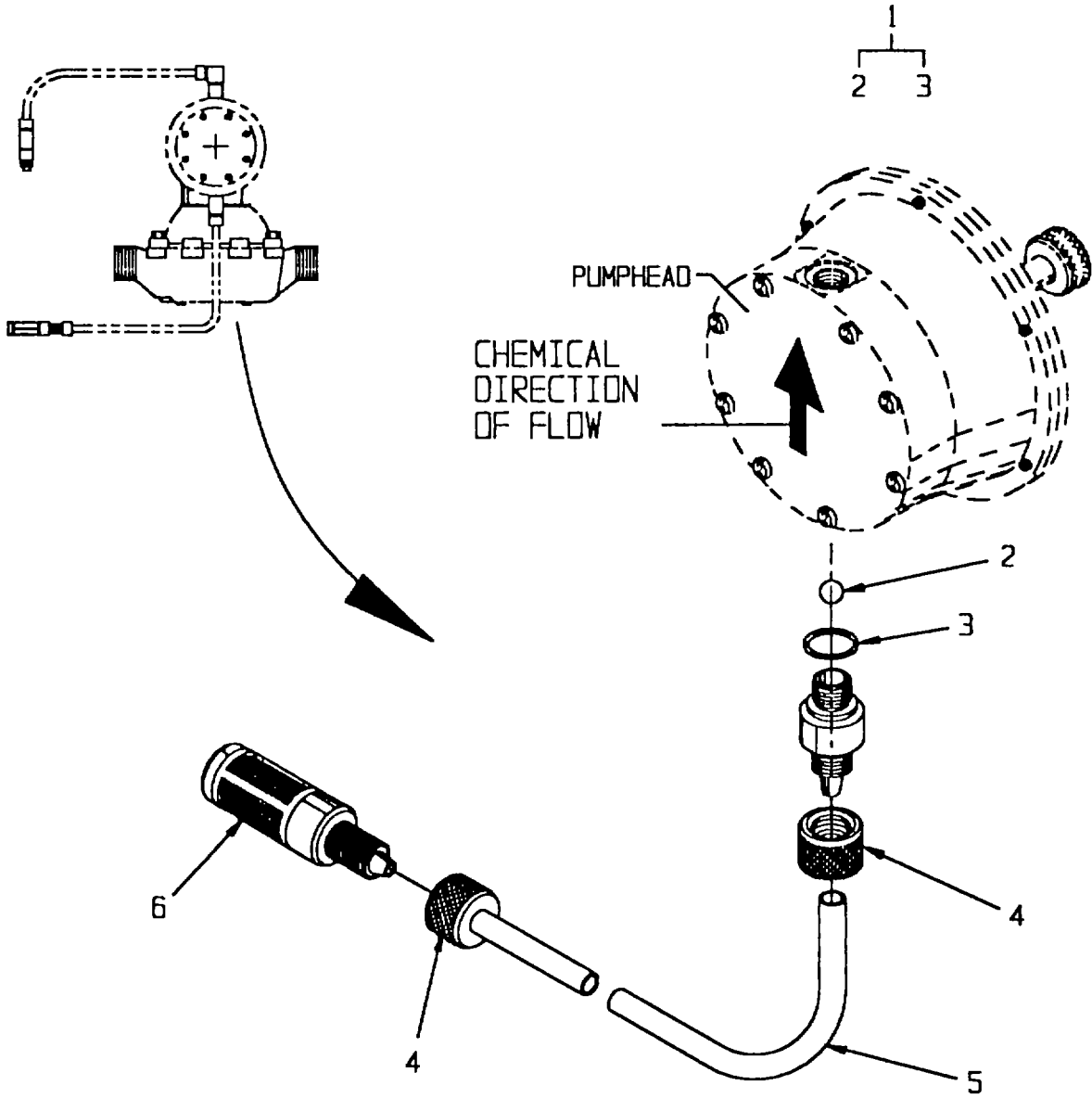


Figure 3. Valves and Tubing (1 of 2)

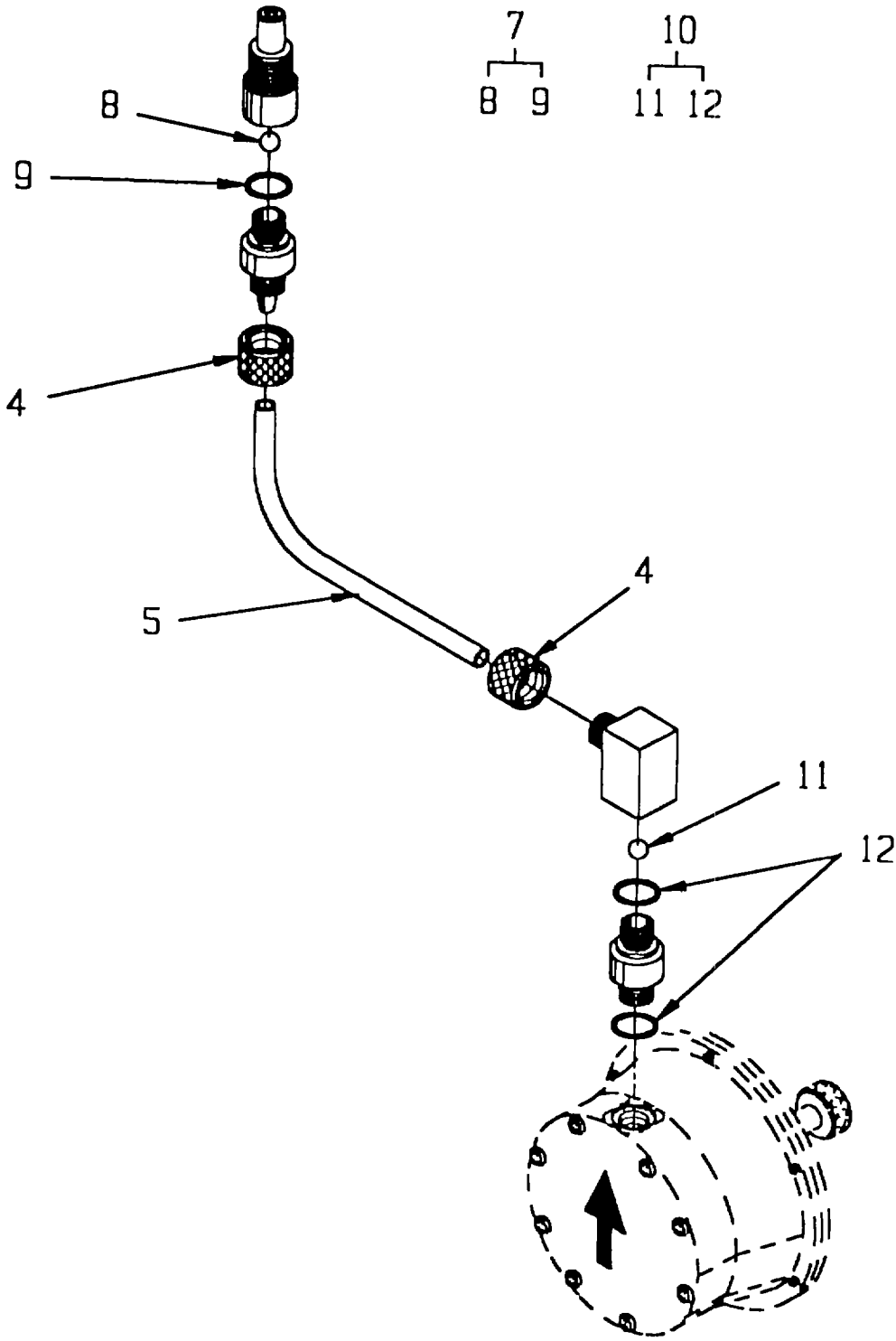


Figure 3. Valves and Tubing (2 of 2)

SECTION II

TM 10-4610-244-23P
TM 09476B-23P/2

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
GROUP 01 PROPORTIONING PUMP					
FIG. 3 VALVES AND TUBING					
	XCOOO	52848	AHY001-B	.VALVES/TUBING	1
1	PAOOO	OK616	674-2	..S-VALVE COMPLETE	1
2	XDOZZ	OK616	171-9	...POPPET, CERAMIC.....	1
3	PAOZZ	OK616	168-6	...PACKING, PREFORMED	1
4	PAOZZ	OK616	174-3	...NUT, TUBE COUPLING	6
5	MOOZZ	52848	AHY001-A7	..TUBING, NYLABRAID MAKE FROM BULK, P/N 1HNB045 (CAGE 06034), 3 FT REQD	1
6	PAOZZ	OK616	728-8	..FOOT VALVE	1
7	PAOOO	OK616	983-8	..PLAIN INJECTOR	1
8	XDOZZ	OK616	171-9	...POPPET, CERAMIC.....	1
9	PAOZZ	OK616	168-6	...PACKING , PREFORMED	1
10	PAOOO	52848	AHY001-A8	..DISCHARGE VALVE	1
11	XDOZZ	OK616	171-9	...POPPET, CERAMIC.....	1
12	PAOZZ	OK616	168-6	...PACKING, PREFORMED.....	2

END OF FIGURE

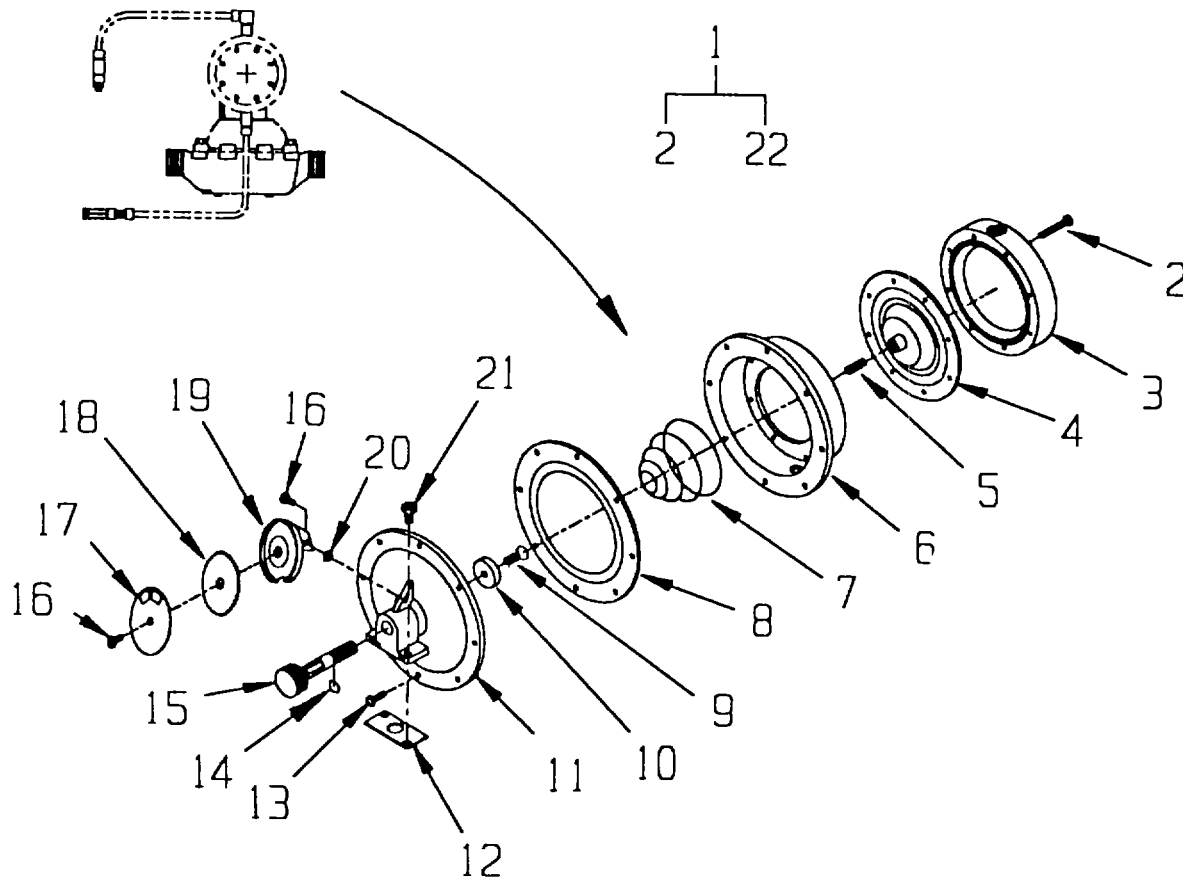


Figure 4. Pumphead Assembly

SECTION II

TM 10-4610-244-23P
TM 09476B-23P/2

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
GROUP 01 PROPORTIONING PUMP					
FIG. 4 PUMPHEAD ASSEMBLY					
1	XDOFF	OK616	P4-BAXL	..PUMPHEAD ASSY	1
2	XDFZZ	OK616	119-9	..SCREW	8
3	PAFZZ	OK616	111-5	..PUMPHEAD	1
4	PAFZZ	OK616	108-2	..DIAPHRAGM, CHEMICAL.....	1
5	XDFZZ	OK616	118-1	..STUD	1
6	XDFZZ	OK616	101-6	..CYLINDER	1
7	XDFZZ	OK616	121-4	..SPRING	1
8	PAFZZ	OK616	939-1	..DIAPHRAGM, WATER.....	1
9	XDFZZ	OK616	128-0	..SCREW	1
10	XDFZZ	OK616	135-5	..PAD.....	1
11	XDFZZ	OK616	9-2	..FLANGE	1
12	PAFZZ	OK616	44-8	..GASKET F/C	1
13	XDFZZ	OK616	117-3	..SCREW, HEX HEAD	8
14	PAOZZ	OK616	136-3	..PACKING PREFORMED.....	1
15	XDOZZ	OK616	134-7	..DOSAGE CONTROL KNOB.....	1
16	PAOZZ	OK616	137-1	..SCREW	2
17	XDOZZ	OK616	141-2	..DIAL COVER.....	1
18	XDOZZ	OK616	162-8	..DIAL GEAR	1
19	XDOZZ	OK616	12-5	..DIAL HOLDER.....	1
20	XDOZZ	OK616	347-6	..LOCK WASHER	1
21	XDFZZ	OK616	129-8	..SCREW	2

END OF FIGURE

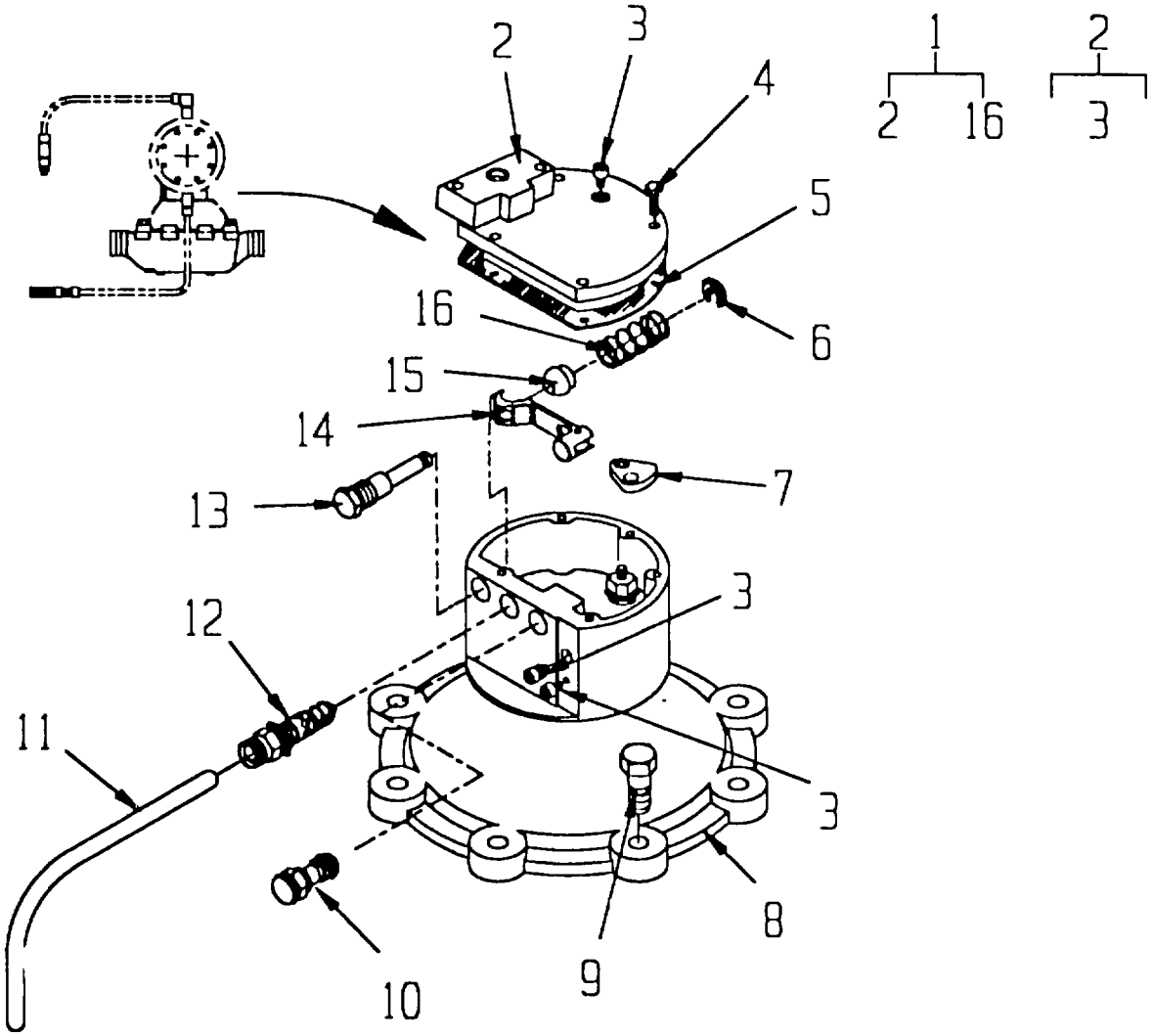


Figure 5. Upper Housing Assembly

SECTION II

TM 10-4610-244-23P
TM 09476B-23P/2

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
GROUP 01 PROPORTIONING PUMP					
FIG. 5 UPPER HOUSING ASSEMBLY					
1	XDFFF	52848	AHY001-A2	..UPPER HOUSING ASSY	1
2	XDFZZ	52848	AHY001-A1	..COVER PLATE	1
3	PAFZZ	OK616	1220-3	..SCREW	1
4	XDFZZ	OK616	117-3	..SCREW, HEX HEAD	5
5	PAFZZ	OK616	45-6	..GASKET	1
6	XDFZZ	OK616	144-6	..WASHER, RETAINER.....	1
7	XDFZZ	OK616	14-1	..CAM	1
8	XDFZZ	52848	AHY001-A11	..CASE, UPPER HOUSING	1
9	PAOZZ	OK616	49-8	..BOLT, HOUSING	8
10	PAFZZ	OK616	197-5	..BALANCE VALVE, COMP	1
11	MOOZZ	52848	AHY001-A9	..TUBING, WASTELINE MAKE FROM BULK, P/N 1HNBO45 (CAGE 06034), 10 FT REQD.....	1
12	PAFZZ	52848	AHYOO1-A6	..R-VALVE COMPLETE.....	1
13	XDFZZ	OK616	143-8	..ARM RETAINER	1
14	XDFZZ	OK616	936-7	..VALVE ARM	1
15	XDFZZ	OK616	142-0	..BALL PIVOT	1
16	XDFZZ	OK616	42-2	..ARM SPRING.....	1

END OF FIGURE

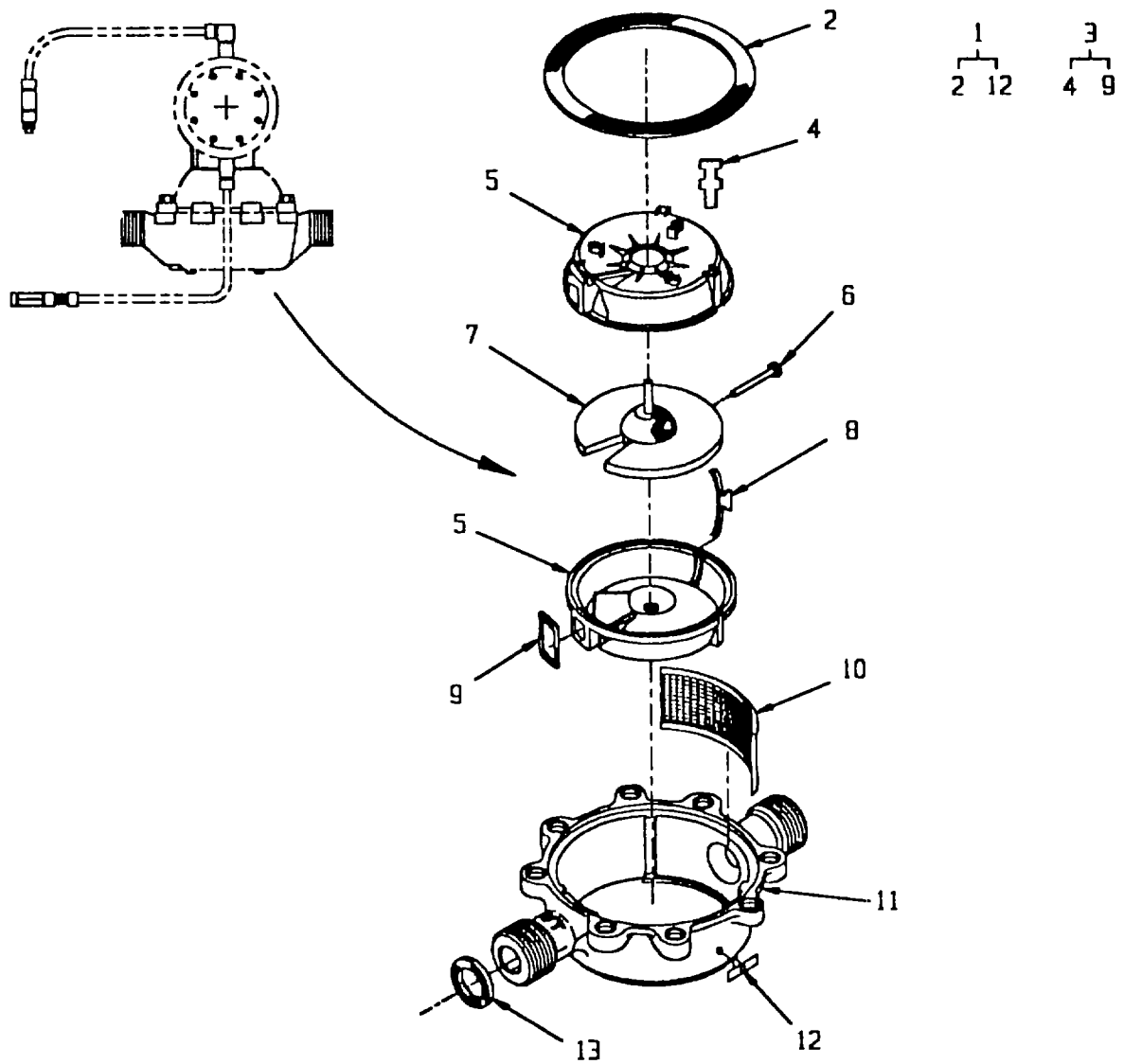


Figure 6. Lower Housing Assembly

SECTION II

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
GROUP 01 PROPORTIONING PUMP					
FIG. 6 LOWER HOUSING ASSEMBLY					
1	XDFFF	52848	AHYOO1-A10	LOWER HOUSING ASSY	1
2	PAFZZ	OK616	69-6	GASKET, LH ASSY	1
3	PAFFF	OK616	190-8	CHAMBER DISC ASSY	1
4	PAFZZ	OK616	193-3	SPRING, RETAINER	1
5	XDFZZ	OK616	71-1	CHAMBER NORYL	1
6	XDFZZ	OK616	194-1	THRUST ROLLER	1
7	XDFZZ	OK616	72-9	DISC	1
8	XDFZZ	OK616	73-7	TR INSERT	1
9	PAFZZ	OK616	70-3	PORT GASKET	1
10	XDFZZ	OK616	74-5	SCREEN	1
11	XDFZZ	52848	AHYOO1-A3	LOWER HOUSING	1
12	PAFZZ	52848	AHYOO1-A4	PETCOCK	1
13	PAOZZ	OK616	75-3	GASKET, UNION	2

END OF FIGURE

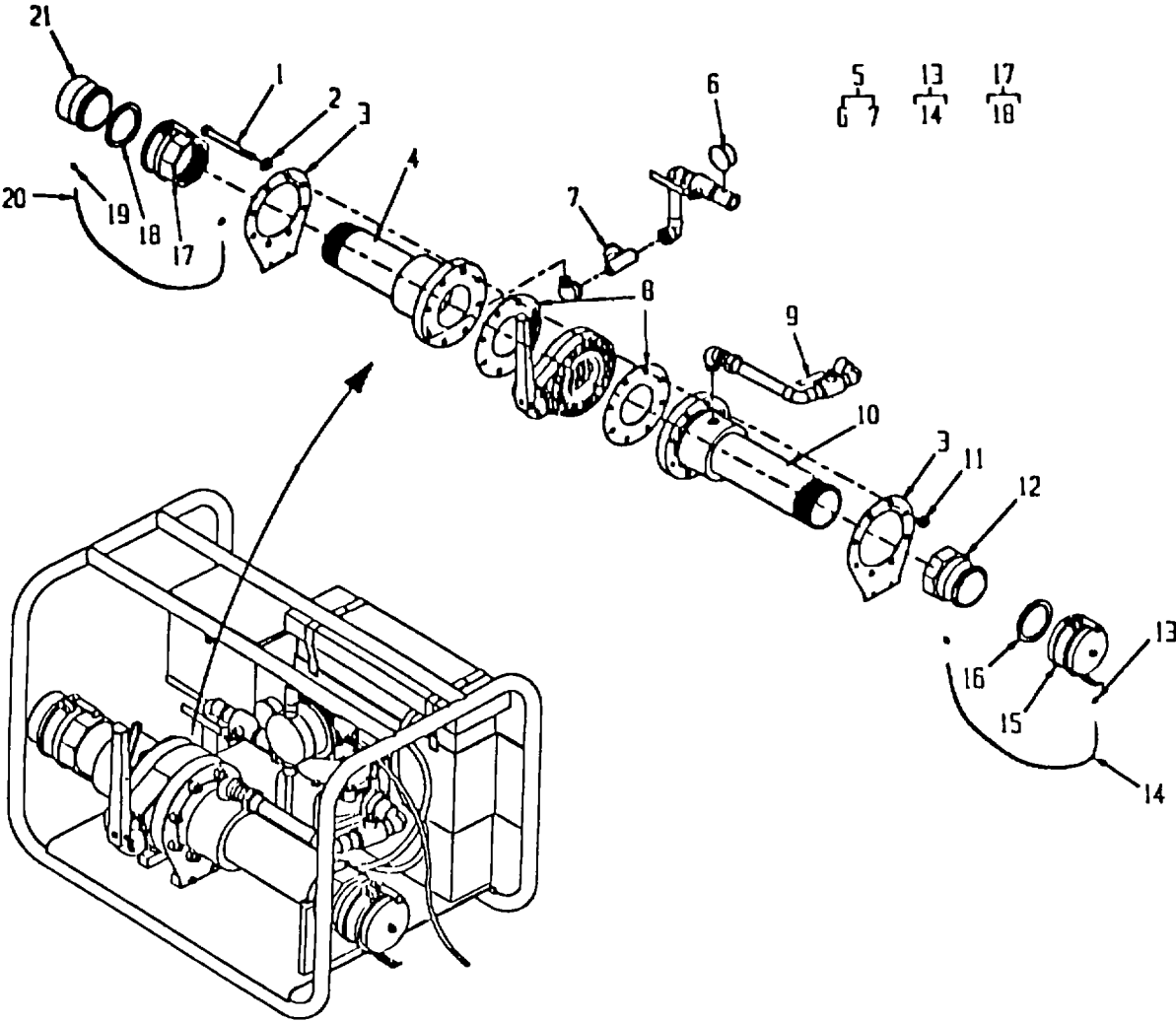


Figure 7. Piping Assembly (1 of 2)

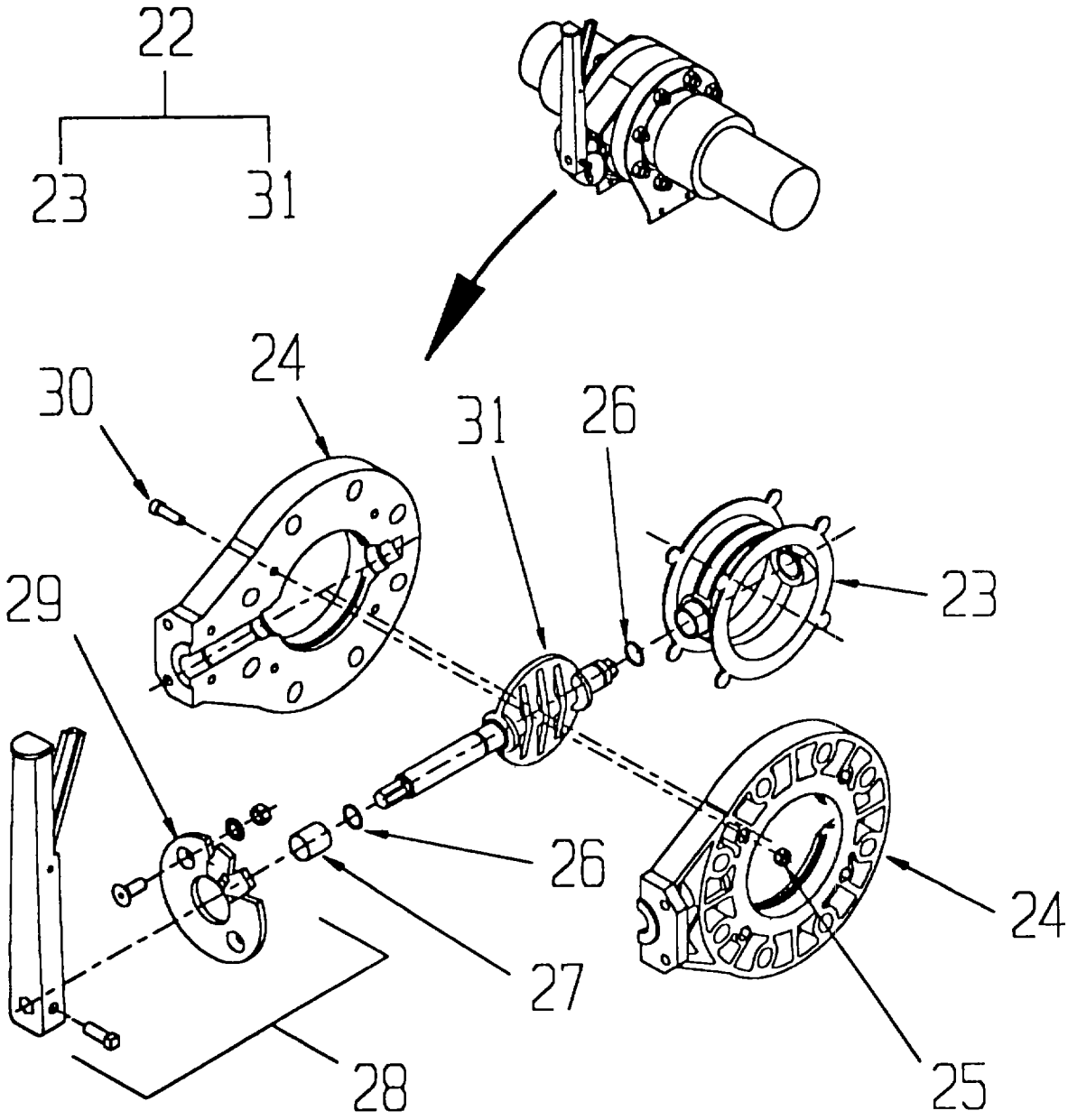


Figure 7. Piping Assembly (2 of 2)

SECTION II

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
GROUP 02 MAINLINE PIPE ASSEMBLY					
FIG. 7 PIPING ASSEMBLY					
	XCOOO	52848	AHYOO1-E	PIPING	1
1	PAOZZ	52848	111-9	.BOLT	6
2	PAOZZ	52848	115-5	.WASHER	1
3	XDOZZ	52848	AHYOO1-E5	.HANGER	1
4	XDOZZ	52848	AHYOO1-E3	.MAINLINE PIPE	1
5	PAOZZ	52848	AHYOO1-C	.BALL VALVE ASSY	1
6	PAOZZ	38056	20W-1005-01L	..GAGE	1
7	XDOZZ	79227	777M1	..Y-STRAINER	1
8	PAOZZ	31282	68-040	.GASKET	2
9	PAOZZ	52848	AHYOOO1-D	.BALL VALVE ASSY	1
10	XDOZZ	52848	AHYOO1-E4	.MAINLINE PIPE	1
11	PAOZZ	52848	111-7	.NUT, LOCK	2
12	PAOOZ	96906	MS27020-17	.COUPLING HALF,QUICK.....	1
13	XDOZZ	07527	90104	.RING, KEY	1
14	MOOZZ	52848	AHYOO1-K	.CHAIN, CAMLOCK MAKE FROM BULK, P/	1
				N NAS1455CO-240,CAGE 1B934, 2 FT REQ	
15	PAOZZ	96906	MS27028-17	.CAP, QUICK DISCONN.....	1
16	PAOZZ	96906	MS27030-9	..GASKET	1
17	PAOOZ	96906	MS27024-17	.COUPLING HALF,QUICK	1
18	PAOZZ	96906	MS27030-9	..GASKET	1
19	XDOZZ	07527	90104	.RING, KEY	1
20	MOOZZ	52848	AHYOO001-K	.CHAIN, CAMLOCK MAKE FROM BULK, P/	1
				N NAS1455CO-240 CAGE 1B934, 2 FT REQ	
21	PAOZZ	96906	MS27029-17	.PLUG,QUICK DISCONN.....	1
22	PBOOO	52848	AHYOO1-EI	.RANGE ADJUSTING VLV	1
23	PAOZZ	61623	29371010	SEAT, VITON	1
24	XDOZZ	61623	21368018	..BODY HALF, RANGE.	2
25	XDOZZ	61623	94020917	..NUT	1
26	PAOZZ	61623	94000972	PACKING PREFORMED	2
27	PAOZZ	61623	94120916	..BEARING	1
28	XDOZZ	52848	AHYOO1-E2	HANDLE ASSEMBLY	1
29	XDOZZ	52848	AHYOO1-E6	POSITION PLATE	1
30	XDOZZ	61623	94010980	..BOLT	1
31	XDOZZ	61623	21359018	..DISC/SHAFT	1

END OF FIGURE

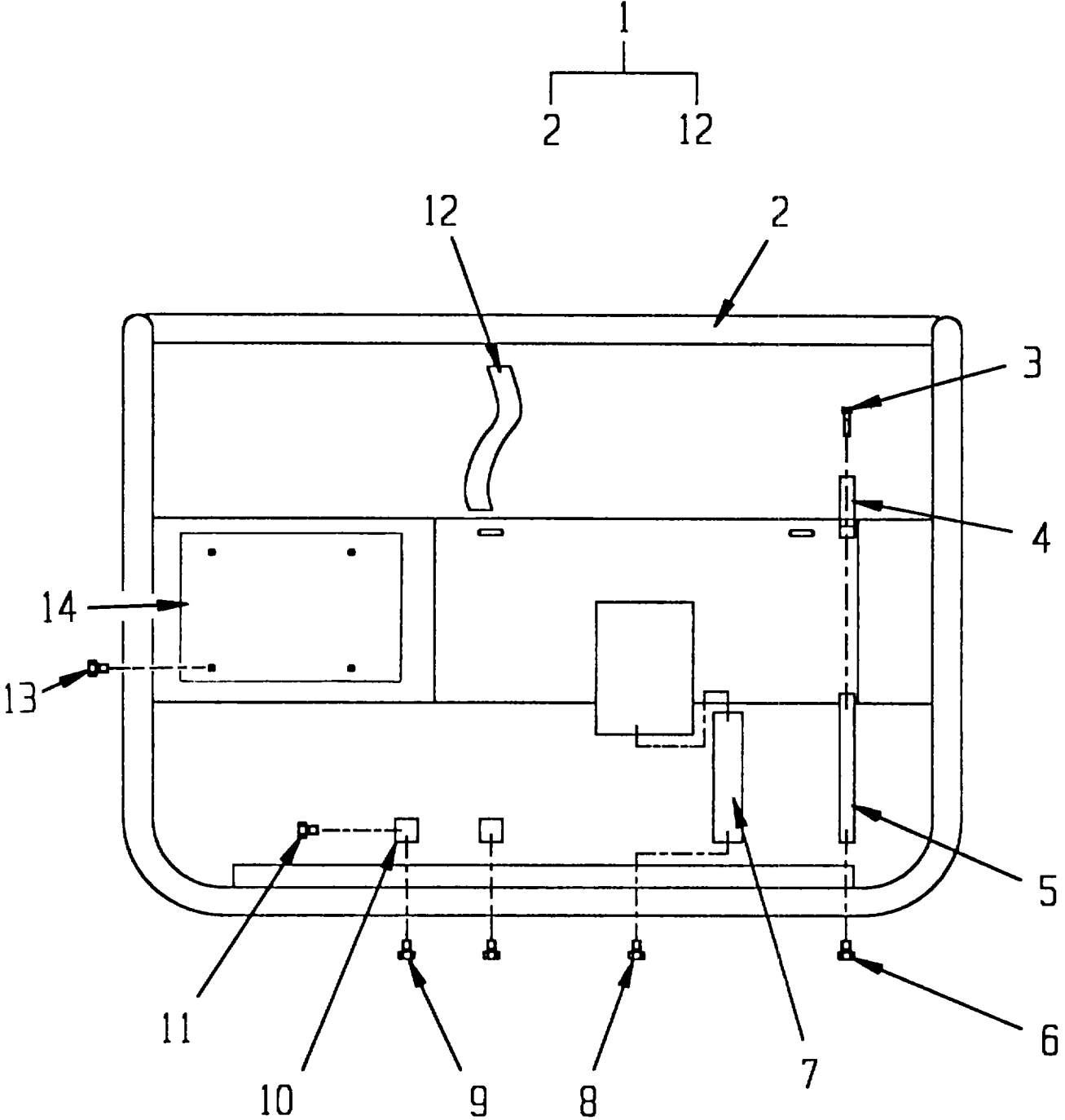


Figure 8. Frame Assembly

SECTION II					
(1)	(2)	(3)	(4)	(5)	(6)
ITEM NO	SMR CODE	CAGEC	PART NUMBER	DESCRIPTION AND USABLE ON CODES(UOC)	QTY
GROUP 03 FRAME ASSEMBLY					
FIG. 8 FRAME ASSEMBLY					
1	XDOFF	52848	AHY001-H	FRAME ASSEMBLY	1
2	XDOFF	52848	AHY001-H5	.FRAME.....	1
3	XDOZZ	52848	1220-6	.SCREW, ALLEN.....	1
4	XDOZZ	52848	AHY001-H4	.BRACKET TOP	1
5	XDOZZ	52848	AHY001-H3	.BRACKET BOTTOM	1
6	XDOZZ	52848	1220-7	.SCREW, BRACKET	2
7	XDOZZ	52848	AHY001-H2	POST	1
8	XDOZZ	52848	1220-9	SCREW, POST	1
9	XDOZZ	52848	1220-10	SCREW, ANCHOR BLOCK.....	1
10	XDOZZ	52848	AHY001-HI	ANCHOR BLOCKS	2
11	XDOZZ	52848	1220-12	.SCREW.....	1
12	PAOZZ	52848	113-8	STRAP, VELCRO	1
13	PAOZZ	8B565	10049917	SCREW, PLATE.....	4
14	XDOZZ	4J649	AHY001-L1	PLATE, I.D.	1

END OF FIGURE

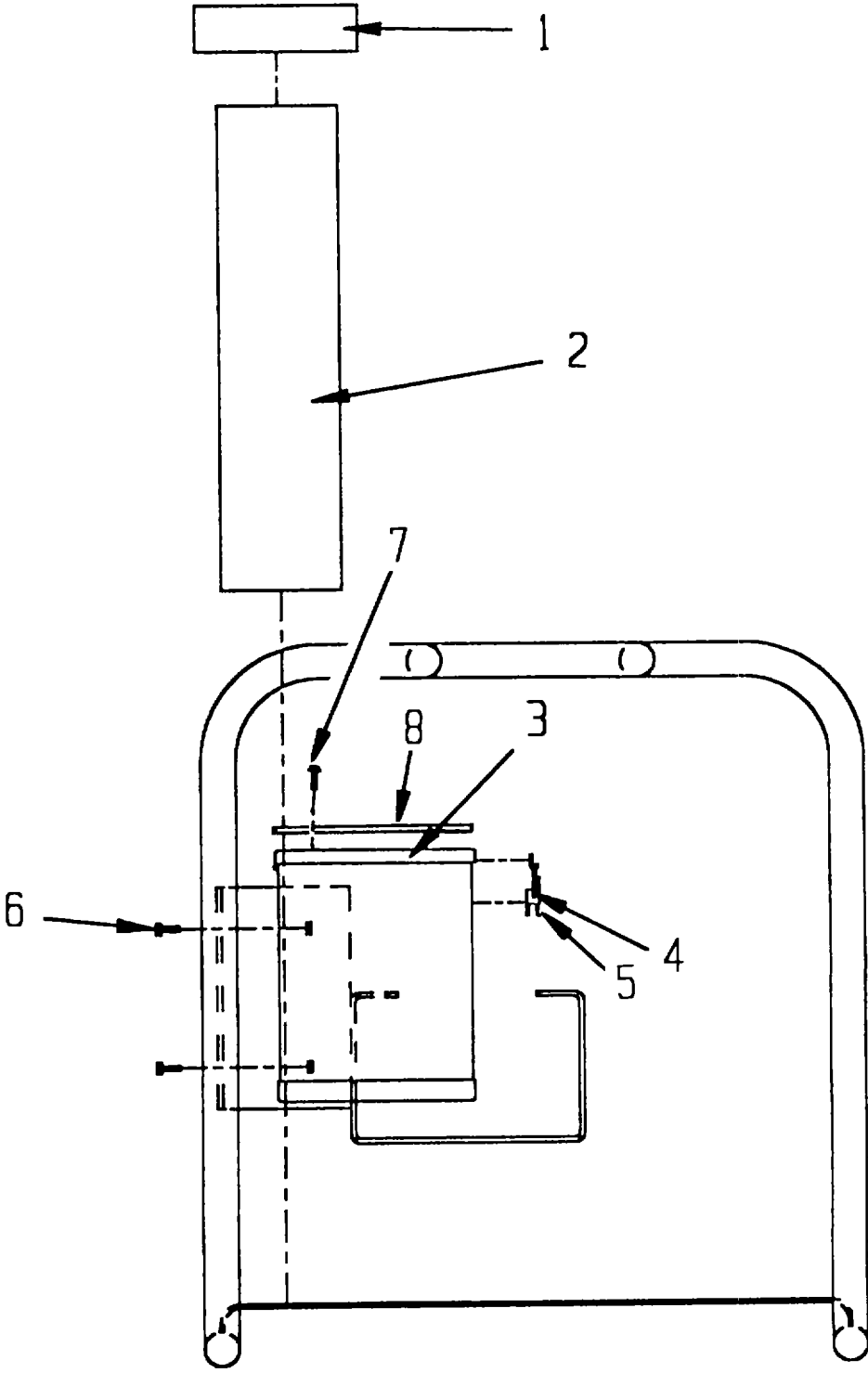


Figure 9. Accessory Box and Reservoir

SECTION II

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
GROUP 04 ACCESSORY BOX					
FIG. 9 ACCESSORY BOX AND RESERVOIR					
1	XDOZZ	7R531	7173.506	LID, RESERVOIR	1
2	XDOZZ	52848	AHYOO1-F	RESERVOIR	1
3	XDOFF	52848	AHYOO1-G	BOX, ACCESSORY	1
4	XDFZZ	52848	AHYOO1-G2	.LATCH	1
5	PAOZZ	8B565	10049917	.SCREW, PLATE.....	4
6	XDOZZ	52848	114-2	FASTENER, ACC BOX	4
7	PAOZZ	96906	MS20470B3-4	.RIVET,SOLID	8
8	XDOZZ	4J649	AHYOO1-L2	.PLATE, INSTRUCTION.....	1

END OF FIGURE

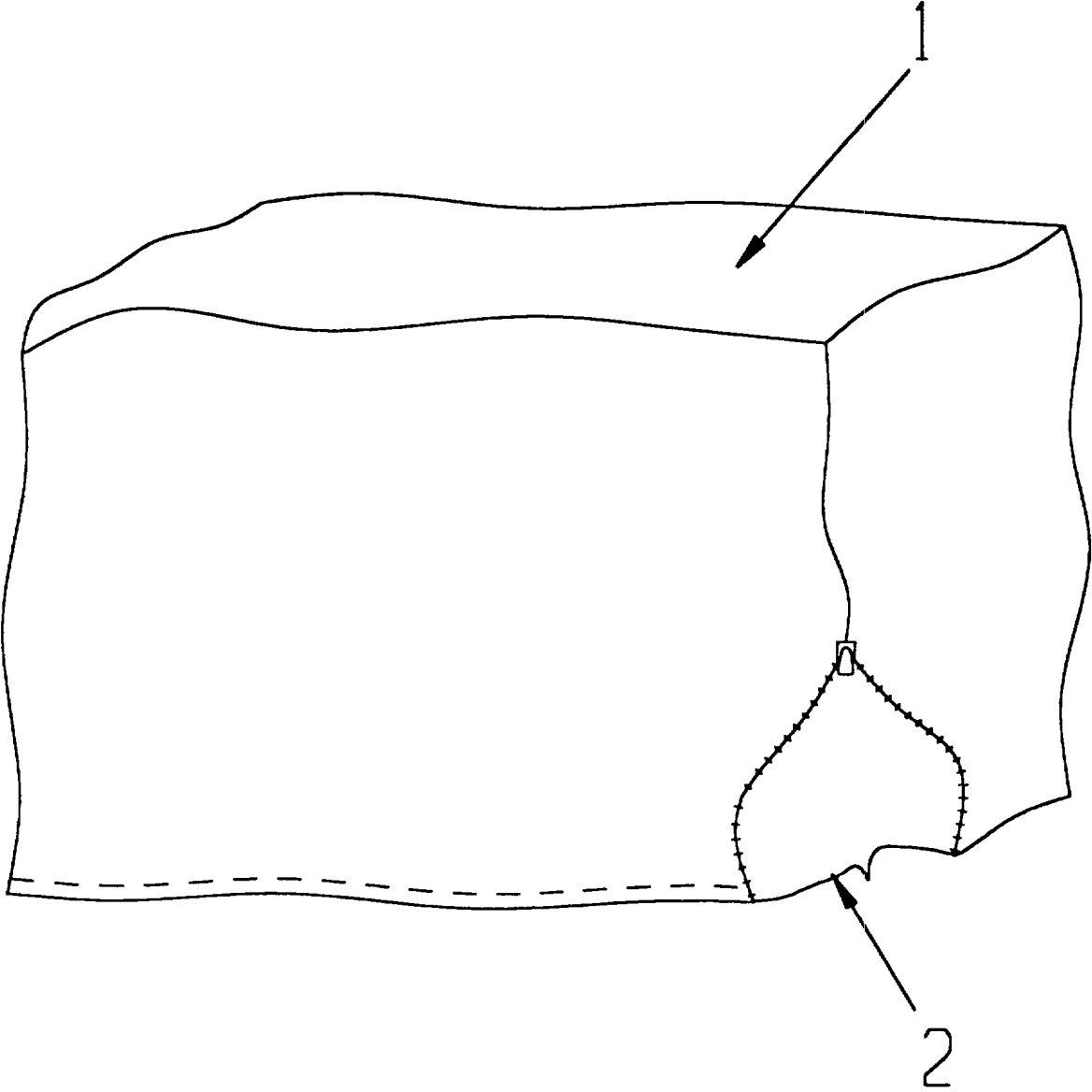


Figure 10. Cover

TM 10-4610-244-23P

TM-09476B-23P/2

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
				GROUP 05 COVER	
				FIG. 10 COVER	
1	XDOFF	52848	AHYOO1-J	COVER, CLOTH.....	1
2	MOOZZ	52848	AHYOO1-J1	.DRAWSTRING MAKE FROM BULK, P/N..... MIL-C-5040,CAGE 00768, 140 IN REQD	1

END OF FIGURE

TM 10-4610-244-23P
TM-09476B-23P/2

SECTION II (1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
				GROUP 06 BULK MATERIAL	
				FIG. BULK	
1	PAOZZ	06034	IHNB045	TUBING, NYLABRAID.....	V
2	PAOZZ	1B934	NAS1455CO-240	CHAIN.....	V
3	PAOZZ	00768	MIL-C-5040	STRING.....	V

END OF FIGURE

Section III. SPECIAL TOOLS LIST

(Not Applicable)

SECTION IV

TM 10-4610-244-23P
TM 09476B-23P/2

CROSS-REFERENCE INDEXES

STOCK NUMBER	FIG.	NATIONAL STOCK NUMBER INDEX ITEM	STOCK NUMBER	FIG.	ITEM
4730-00-088-9286	0007	17			
5320-00-119-6819	0009	7			
6810-00-242-4770	0000				
4730-00-640-6156	0007	15			
4730-00-640-6188	0007	21			
4730-00-840-0796	0007	12			
5330-00-899-4509	0007	16			
	0007	18			

SECTION IV

TM 10-4610-244-23P
TM 09476B-23P/2

CROSS-REFERENCE INDEXES

CAGEC	PART NUMBER	PART NUMBER INDEX STOCK NUMBER	FIG.	ITEM
52848	AHYOO1-A		0002	1
52848	AHYOO1-A1		0005	2
52848	AHYOO1-A10		0006	1
52848	AHYOO1-A11		0005	8
52848	AHYOO1-A2		0005	1
52848	AHYOO1-A3		0006	11
52848	AHYOO1-A4		0006	12
52848	AHYOO1-A6		0005	12
52848	AHYOO1-A7		0003	5
52848	AHYOO1-A8		0003	10
52848	AHYOO1-A9		0005	11
52848	AHYOO1-B		0003	
52848	AHYOO1-C		0007	5
52848	AHYOO1-D		0007	9
52848	AHYOO1-E		0007	
52848	AHYOO1-E1		0007	22
52848	AHYOO1-E2		0007	28
52848	AHY001-E3		0007	4
52848	AHYOO1-E4		0007	10
52848	AHYOOO1-E5		0007	3
52848	AHYOO1-E6		0007	29
52848	AHYOO1-F		0008	2
52848	AHYOOO1-G		0009	3
52848	AHYOOO1-G2		0009	4
52848	AHYOO1-H		0008	1
52848	AHYOO1-H1		0008	10
52848	AHYOO1-H2		0008	7
5,848	AHYOO1-H3		0008	5
52848	AHYOO1-H4		0008	4
52848	AHYOO1-H5		0008	2
52848	AHYOO1-J		0010	1
52848	AHYOO1-J1		0010	2
52848	AHYOO1-K		0007	14
			0007	20
4JG49	AHYOO1-L2		0008	14
4J649	AHYOO1-L2		0009	8
06G034	IHNB045		BULK	1
00768	MIL-C-5040		BULK	3
96906	MS20470B3-4	5320-00-119-6819	0009	7
96906	MS27020-17	4730-00-840-0796	0007	12
96906	MS27024-17	4730-00-088-9286	0007	17
96906	MS27028-i7	4730-00-640-6156	0007	15
96906	MS27029-17	4730-00-640-6188	0007	21
96906	MS27030-9	5330-00-899-4509	0007	16
			0007	18
1B934	NAS1455CO-240		BULK	2
OK616	P4-BAXL		0004	1
81348	OC114	6810-00-242-4770	0000	
8B565	10049917		0008	13
			0009	5
OK616	101-6		0004	6

SECTION IV

TM 10-4610-244-23P
TM 09476B-23P/2

CROSS-REFERENCE INDEXES

CAGEC	PART NUMBER	PART NUMBER INDEX STOCK NUMBER	FIG.	ITEM
OK616	108-2		0004	4
OK616	111-5		0004	3
52848	111-7		0007	11
52848	111-9		0007	1
52848	113-8		0008	12
52848	114-2		0009	6
52848	115-5		0007	2
OK616	117-3		0004	13
			0005	4
OK616	118-1		0004	5
OK616	119-9		0004	2
OK616	12-5		0004	19
OK616	121-4		0004	7
52848	1220-10		0008	9
52848	1220-12		0008	11
OK616	1220-3		0005	3
52848	1220-6		0008	3
52848	1220-7		0008	6
52848	1220-9		0008	8
OK616	128-0		0004	9
OK616	129-8		0004	21
OK616	134-7		0004	15
OK616	135-5		0004	10
OK616	136-3		0004	14
OK616	137-1		0004	16
OK616	14-1		0005	7
OK616	141-2		0004	17
OK616	142-0		0005	15
OK616	143-8		0005	13
OK616	144-6		0005	6
OK616	162-8		0004	18
OK616	168-6		0003	3
			0003	9
			0003	12
OK616	171-9		0003	2
			0003	8
			0003	11
OK616	174-3		0003	4
OK616	190-8		0006	3
OK616	193-3		0006	4
OK616	194-1		0002	6
OK616	197-5		0005	10
38056	20W-1005-OIL		0007	6
61623	21359018		0007	31
61623	21368018		0007	24
61623	29371010		0007	23
OK616	347-6		0004	20
OK616	42-2		0005	16
OK616	44-8		0004	12
OK616	45-6		0005	5
OK616	49-8		0005	9

SECTION IV

TM 10-4610-244-23P
TM 09476B-23P/2

CROSS-REFERENCE INDEXES

CAGEC	PART NUMBER	PART NUMBER INDEX STOCK NUMBER	FIG.	ITEM
OK616	674-2		0003	1
31282	68-040		0007	8
OK616	69-6		0006	2
OK616	70-3		0006	9
OK616	71-1		0006	5
7R531	7173.506		0008	1
OK616	72-9		0006	7
OK616	728-8		0003	6
OK616	73-7		0006	8
OK616	74-5		0006	10
OK616	75-3		0006	13
79227	777M1		0007	7
OK616	9-2		0004	11
07527	90104		0007	13
			0007	19
OK616	936-7		0005	14
OK616	939-1		0004	8
61623	94000972		0007	26
61623	94010980		0007	30
61623	94020917		0007	25
61623	94120916		0007	27
OK616	983-8		0003	7

CROSS-REFERENCE INDEXES

FIG.	ITEM	FIGURE AND ITEM NUMBER INDEX		PART NUMBER
		STOCK NUMBER	CAGEC	
BULK	1		06034	IHNB045
BULK	2		1B934	NAS1455CO-240
BULK	3		00768	MIL-C-5040
		6810-00-242-4770	81348	OC114
2	1		52848	AHYOO1-A
2	6		OK616	194-1
3			52848	AHYOO1-B
3	1		OK616	674-2
3	2		OK616	171-9
3	3		OK616	168-6
3	4		OK616	174-3
3	5		52848	AHYOO1-A7
3	6		OK616	728-8
3	7		OK616	983-8
3	8		OK616	171-9
3	9		OK616	168-6
3	10		52848	AHYOO1-A8
3	11		OK616	171-9
3	12		OK616	168-6
4	1		OK616	P4-BAXL
4	2		OK616	119-9
4	3		OK616	111-5
4	4		OK616	108-2
4	5		OK616	118-1
4	6		OK616	101-6
4	7		OK616	121-4
4	8		OK616	939-1
4	9		OK616	128-0
4	10		OK616	135-5
4	11		OK616	9-2
4	12		OK616	44-8
4	13		OK616	117-3
4	14		OK616	136-3
4	15		OK616	134-7
4	16		OK616	137-1
4	17		OK616	141-2
4	18		OK616	162-8
4	19		OK616	12-5
4	20		OK616	347-6
4	21		OK616	129-8
5	1		52848	AHYOO1-A2
5	2		52848	AHYOO1-A1
5	3		OK616	1220-3
5	4		OK616	117-3
5	5		OK616	45-6
5	6		OK616	144-6
5	7		OK616	14-1
5	8		52848	AHYOO1-A11
5	9		OK616	49-8
5	10		OK616	197-5
5	11		52848	AHYOO1-A9

CROSS-REFERENCE INDEXES

FIG.	ITEM	FIGURE AND ITEM NUMBER INDEX		PART NUMBER
		STOCK NUMBER	CAGEC	
5	12		52848	AHYOO1-A6
5	13		OK616	143-8
5	14		OK616	936-7
5	15		OK616	142-0
5	16		OK616	42-2
6			52848	AHYOO1-A100
6	2		OK616	69-6
6	3		OK616	190-8
6	4		OK616	193-3
6	5		OK616	71-1
6	7		OK616	72-9
6	8		OK616	73-7
6	9		OK616	70-3
6	10		OK616	74-5
6	11		52848	AHY001-A3
6	12		52848	AHYOO1-A4
6	13		OK616	75-3
7			52848	AHYOO1-E
7	1		52848	111-9
7	2		52848	115-5
7	3		52848	AHYOO1-E5
7	4		52848	AHYOO1-E3
7	5		52848	AHYOO01-C
7	6		38056	20W-1005-O1L
7	7		79227	777M1
7	8		31282	68-040
7	9		52848	AHYOO1-D
7	10		52848	AHY001-E4
7	11		52848	111-7
7	12	4730-00-840-0796	96906	MS27020-17
7	13		07527	90104
7	14		52848	AHYOO1-K
7	15	4730-00-640-6156	96906	MS27028-17
7	16	5330-00-899-4509	96906	MS27030-9
7	17	4730-00-088-9286	96906	MS27024-17
7	18	5330-00-899-4509	96906	MS27030-9
7	19		07527	90104
7	20		52848	AHYOO1-K
7	21	4730-00-640-6188	96906	MS27029-17
7	22		52848	AHYOO1-E1
7	23		61623	29371010
7	24		61623	21368018
7	25		61623	94020917
7	26		61623	94000972
7	27		61623	94120916
7	28		52848	AHYOO1-E2
7	29		52848	AHYOO1-E6
7	30		61623	94010980
7	31		61623	21359018
8	1		52848	AHYOO1-H
8	1		7R531	7173.506

CROSS-REFERENCE INDEXES

FIG.	ITEM	FIGURE AND ITEM NUMBER INDEX		PART NUMBER
		STOCK NUMBER	CAGEC	
8	2		52848	AHYOOO1-F
8	2		52848	AHYOO1-H5
8	3		52848	1220-6
8	4		52848	AHYOO1-H4
8	5		52848	AHYOO1-H3
8	6		52848	1220-7
8	7		52848	AHY001-H2
8	8		52848	1220-9
8	9		52848	1220-10
8	10		52848	AHYOO1-HI
8	11		52848	1220-12
8	12		52848	113-8
8	13		8B565	10049917
8	14		4J649	AHY001-L1
9	3		52848	AHYOO1-G
9	4		52848	AHYOO1-G2
9	5		8B565	10049917
9	6		52848	114-2
9	7	5320-00-119-6819	96906	MS20470B3-4
9	8		4J649	AHYOO1-L2
10	1		52848	AHYOO1-J
10	2		52848	AHYOO1-J1

TM 10-4610-244-23P
TM 09476B-23P/2

By Order of the Secretaries of the Army and Navy (Including the Marine Corps):


MILTON H. HAMILTON
*Administrative Assistant to the
Secretary of the Army*
06617

GORDON R SULLIVAN
*General, United States Army
Chief of Staff*


DAVID E. BOTTORFF
*Rear Admiral, CEC, US Navy
Commander
Navy Facilities Engineering
Command*

D. R. BLOOMER
*Colonel, USMC
Director, Program Support
Marine Corps Systems Command*

DISTRIBUTION

To be distributed in accordance with DA Form 12-25-E, block no. 6112,
requirements for TM 10-4610-244-23P.

RECOMMENDED CHANGES TO EQUIPMENT TECHNICAL PUBLICATIONS

 <p style="font-style: italic; text-align: center;">THEN...JOT DOWN THE DOPE ABOUT IT ON THIS FORM. CAREFULLY TEAR IT OUT, FOLD IT AND DROP IT IN THE MAIL.</p>		SOMETHING WRONG WITH PUBLICATION	
		FROM: (PRINT YOUR UNIT'S COMPLETE ADDRESS)	
PUBLICATION NUMBER		DATE SENT	
PUBLICATION DATE		PUBLICATION TITLE	
IN THIS SPACE, TELL WHAT IS WRONG AND WHAT SHOULD BE DONE ABOUT IT.			
BE EXACT PIN-POINT WHERE IT IS			
PAGE NO.	PARA- GRAPH	FIGURE NO.	TABLE NO.
PRINTED NAME, GRADE OR TITLE AND TELEPHONE NUMBER		SIGN HERE	

The Metric System and Equivalents

Linear Measure

1 centimeter = 10 millimeters = .39 inch
 1 decimeter = 10 centimeters = 3.94 inches
 1 meter = 10 decimeters = 39.37 inches
 1 dekameter = 10 meters = 32.8 feet
 1 hectometer = 10 dekameters = 328.08 feet
 1 kilometer = 10 hectometers = 3,280.8 feet

Weights

1 centigram = 10 milligrams = .15 grain
 1 decigram = 10 centigrams = 1.54 grains
 1 gram = 10 decigram = .035 ounce
 1 decagram = 10 grams = .35 ounce
 acres
 1 hectogram = 10 decagrams = 3.52 ounces
 1 kilogram = 10 hectograms = 2.2 pounds
 1 quintal = 100 kilograms = 220.46 pounds
 1 metric ton = 10 quintals = 1.1 short tons

Liquid Measure

1 centiliter = 10 milliliters = .34 fl. ounce
 1 deciliter = 10 centiliters = 3.38 fl. ounces
 1 liter = 10 deciliters = 33.81 fl. ounces
 1 dekaliter = 10 liters = 2.64 gallons
 1 hectoliter = 10 dekaliters = 26.42 gallons
 1 kiloliter = 10 hectoliters = 264.18 gallons

Square Measure

1 sq. centimeter = 100 sq. millimeters = .155 sq. inch
 1 sq. decimeter = 100 sq. centimeters = 15.5 sq. inches
 1 sq. meter (centare) = 100 sq. decimeters = 10.76 sq. feet
 1 sq. dekameter (are) = 100 sq. meters = 1,076.4 sq. feet
 1 sq. hectometer (hectare) = 100 sq. dekameters = 2.47
 1 sq. kilometer = 100 sq. hectometers = .386 sq. mile

Cubic Measure

1 cu. centimeter = 1000 cu. millimeters = .06 cu. inch
 1 cu. decimeter = 1000 cu. centimeters = 61.02 cu. inches
 1 cu. meter = 1000 cu. decimeters = 35.31 cu. feet

Approximate Conversion Factors

<i>To change</i>	<i>To</i>	<i>Multiply by</i>	<i>To change</i>	<i>To</i>	<i>Multiply by</i>
inches	centimeters	2.540	ounce-inches	Newton-meters	.007062
feet	meters	.305	centimeters	inches	.394
yards	meters	.914	meters	feet	3.280
miles	kilometers	1.609	meters	yards	1.094
square inches	square centimeters	6.451	kilometers	miles	.621
square feet	square meters	.093	square centimeters	square inches	.155
square yards	square meters	.836	square meters	square feet	10.764
square miles	square kilometers	2.590	square meters	square yards	1.196
acres	square hectometers	.405	square kilometers	square miles	.386
cubic feet	cubic meters	.028	square hectometers	acres	2.471
cubic yards	cubic meters	.765	cubic meters	cubic feet	35.315
fluid ounces	milliliters	29,573	cubic meters	cubic yards	1.308
pints	liters	.473	milliliters	fluid ounces	.034
quarts	liters	.946	liters	pints	2.113
gallons	liters	3.785	liters	quarts	1.057
ounces	grams	28.349	liters	gallons	.264
pounds	kilograms	.454	grams	ounces	.035
short tons	metric tons	.907	kilograms	pounds	2.205
pound-feet	Newton-meters	1.356	metric tons	short tons	1.102
pound-inches	Newton-meters	.11296			

Temperature (Exact)

°F	Fahrenheit	5/9 (after	Celsius	°C
	temperature	subtracting 32)	temperature	

PIN: 072633-000

This fine document...

Was brought to you by me:



[Liberated Manuals -- free army and government manuals](#)

Why do I do it? I am tired of sleazy CD-ROM sellers, who take publicly available information, slap “watermarks” and other junk on it, and sell it. Those masters of search engine manipulation make sure that their sites that sell free information, come up first in search engines. They did not create it... They did not even scan it... Why should they get your money? Why are not letting you give those free manuals to your friends?

I am setting this document FREE. This document was made by the US Government and is NOT protected by Copyright. Feel free to share, republish, sell and so on.

I am not asking you for donations, fees or handouts. If you can, please provide a link to liberatedmanuals.com, so that free manuals come up first in search engines:

<A HREF=<http://www.liberatedmanuals.com/>>Free Military and Government Manuals

- Sincerely
Igor Chudov
<http://igor.chudov.com/>
- [Chicago Machinery Movers](#)