

PARTS MANUAL

ICE 18RF-ts

Resonance free vibratory hammer

Model	:	18RF0013
From Serial no.	:	from start of production
Manual no.	:	18RFTS40
Date of issue	:	May 2003
Revision no.	:	A

TABLE OF CONTENTS

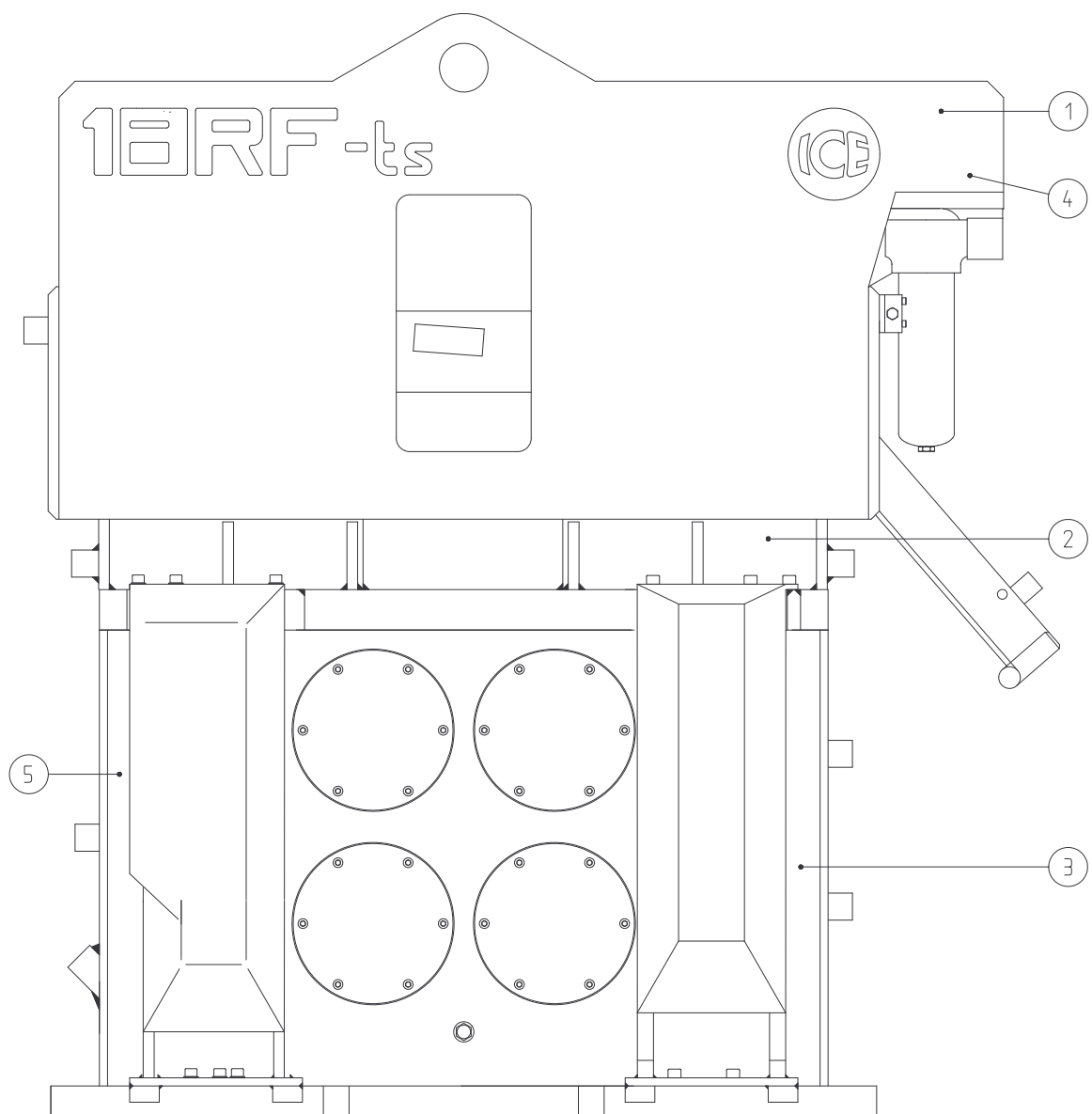
PAGE

• VIBRATORY HAMMER ASSEMBLY	2
• SUPPRESSOR HOUSING ASSEMBLY	4
• SUPPRESSOR HOUSING WELDING ASSEMBLY	6
• VIBRATION CASE ADAPTER ASSEMBLY	8
• VIBRATION CASE ASSEMBLY	10
• HYDRAULIC ASSEMBLY	14
• BOTTOM VIEW OF VIBRATION CASE	19
• HOSE ASSEMBLY	20

VIBRATORY HAMMER ASSEMBLY

18RF-ts

18RF0013



VIBRATORY HAMMER ASSEMBLY

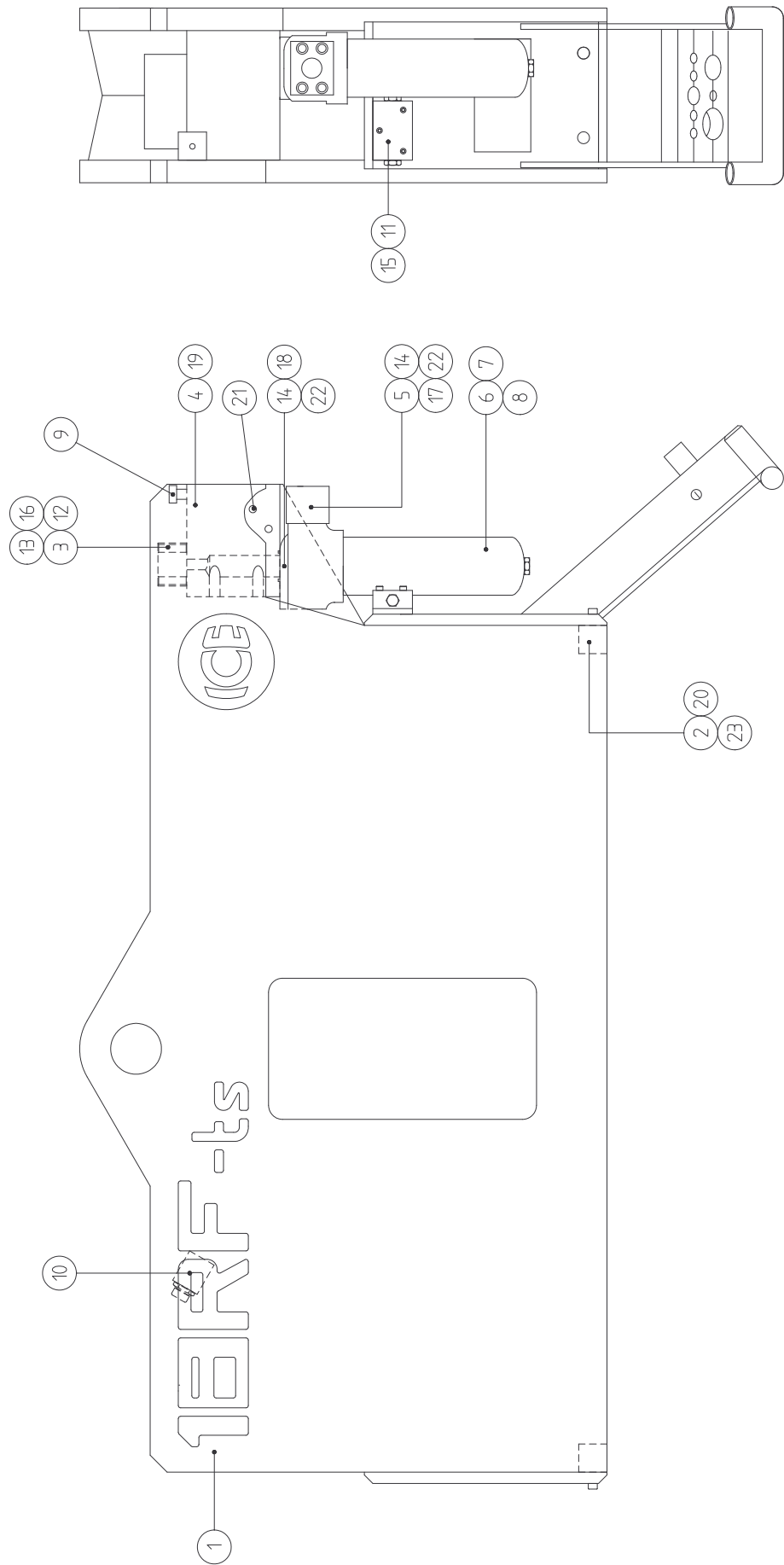
18RF-ts

18RF0013

<u>ITEM</u>	<u>QTY</u>	<u>DESCRIPTION</u>		<u>Part No.</u>
1	1	SUPPRESSOR HOUSING	Rev. -	18RF1003
	1	SUPPRESSOR HOUSING WELDING ASSY	Rev. -	18RF1103
2	1	VIBRATION CASE ADAPTER	Rev. E	14RF2002
3	1	VIBRATION CASE	Rev. G	14RF3003
4	1	HYDRAULIC ASSEMBLY	Rev. B	14RF4003
5	1	S/N PLATE		9110014

SUPPRESSOR HOUSING ASSEMBLY
18RF-ts

18RF1003



SUPPRESSOR HOUSING ASSEMBLY

18RF-ts

18RF1003

<u>ITEM</u>	<u>QTY</u>	<u>DESCRIPTION</u>	<u>Part No.</u>
1	1	WELDING ASS. SUP HOUSING	18RF1103
2	2	STOP BLOCK	790.869
3	1	CHECK VALVE	110.731
4	1	MANIFOLD 1423C	9209116
5	1	FILTER ADAPTER BLOCK	110.273
6	1	FILTER*	100.971
7	1	FILTER ELEMENT	100.035
8	1	DIRT INDICATOR	110.601
9	1	RELIEF VALVE	790.939
10	1	BREATHER	9409008
11	1	CHECK VALVE	9901010
12	1	CHECK BODY	110.723
13	2	O-RING #214	100.097
14	2	O-RING #225	110.119
15	3	SHCS M6x40	9806013
16	4	SHCS 1/2"-13x2 3/4"	9805069
17	4	SHCS 1/2"-13x3 1/2"	100.829
18	4	SHCS 1/2"-13x6"	100.874
19	4	SHCS 5/8"-11x2"	140.227
20	4	SHCS 3/4"-10x2 3/4"	400.039
21	2	PLUG 3/8" NPT	400.213
22	8	1/2" SPRINGWASHER	100.027
23	4	3/4"SPRINGWASHER	100.069

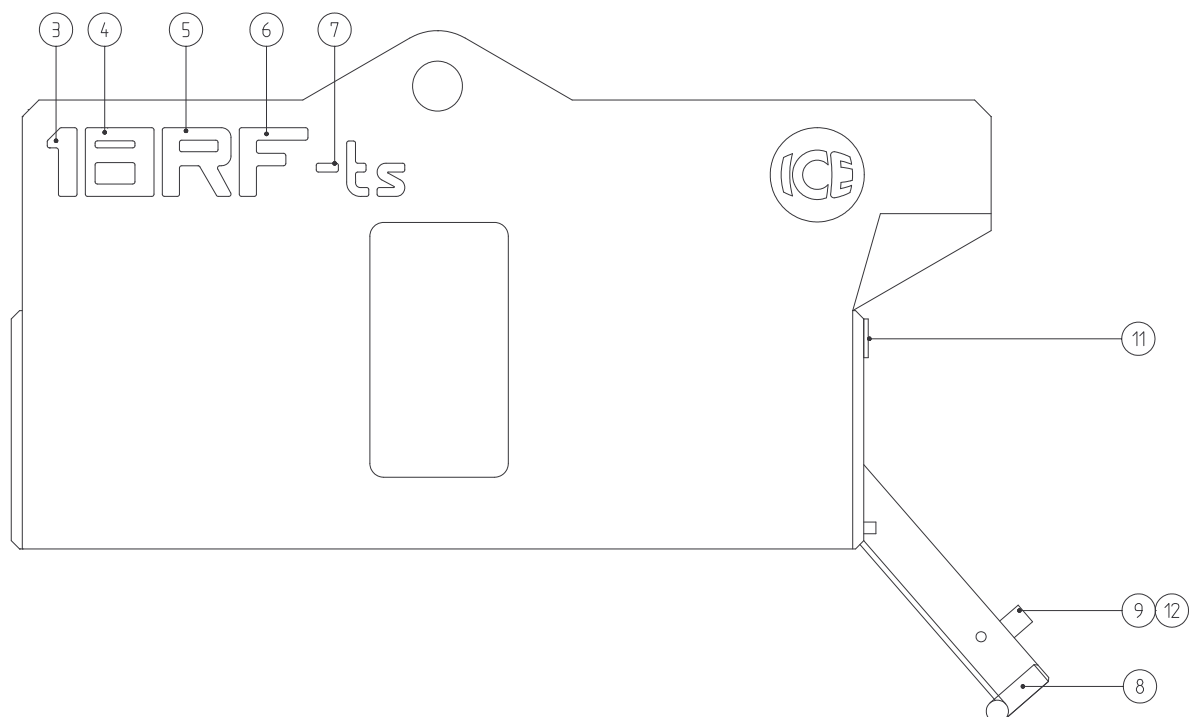
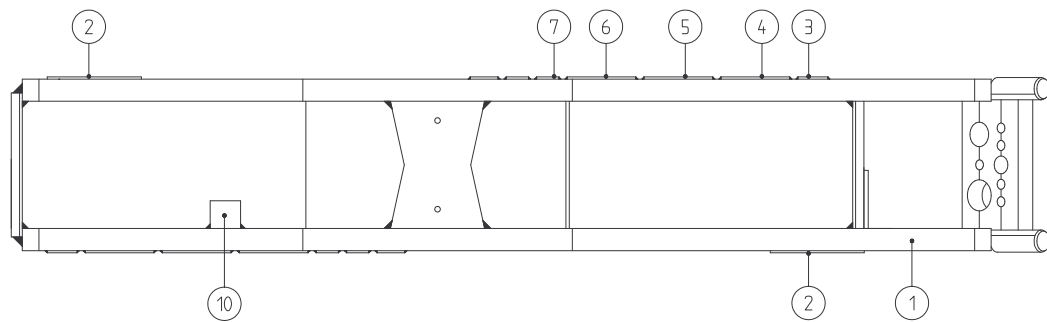
*** SERVICE PARTS FOR PRESSURE FILTER 100.971**

FILTER ELEMENT	100.035
O-RING SET	0306034
BY-PASS VALVE	9409010

SUPPRESSOR HOUSING WELDING ASSEMBLY

18RF-ts

18RF1103



SUPPRESSOR HOUSING WELDING ASSEMBLY

18RF-ts

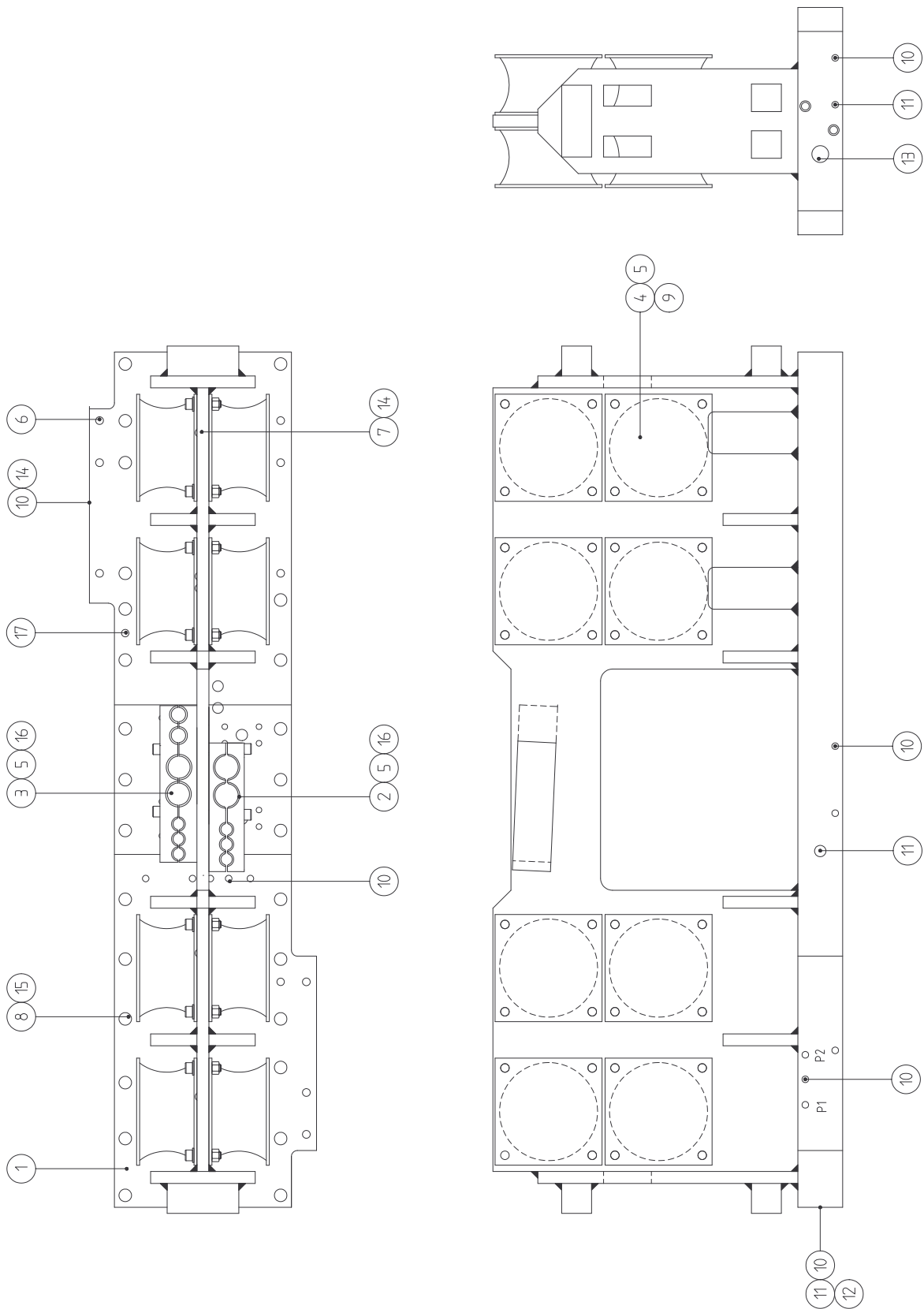
18RF1103

<u>ITEM</u>	<u>QTY</u>	<u>DESCRIPTION</u>	<u>Part No.</u>
1	1	SUPPRESSOR HOUSING	9209115
2	2	LOGO "ICE" SMALL	790.090
3	2	LOGO "1"	794.057
4	2	LOGO "8"	794.058
5	2	LOGO "R"	9308104
6	2	LOGO "F"	9706105
7	2	LOGO "-", "t", "s"	9904104
7	1	HOSE GUIDE	790.893
8	1	HOSE CLAMP	9212101
9	1	CHECK VALVE BODY	9604104
10	1	MOUNTING PLATE	9903101
11	2	SHCS 5/8"-11 x 4 1/2"	100.773

VIBRATION CASE ADAPTER ASSEMBLY

18RF-ts

14RF2002



VIBRATION CASE ADAPTER ASSEMBLY

18RF-ts

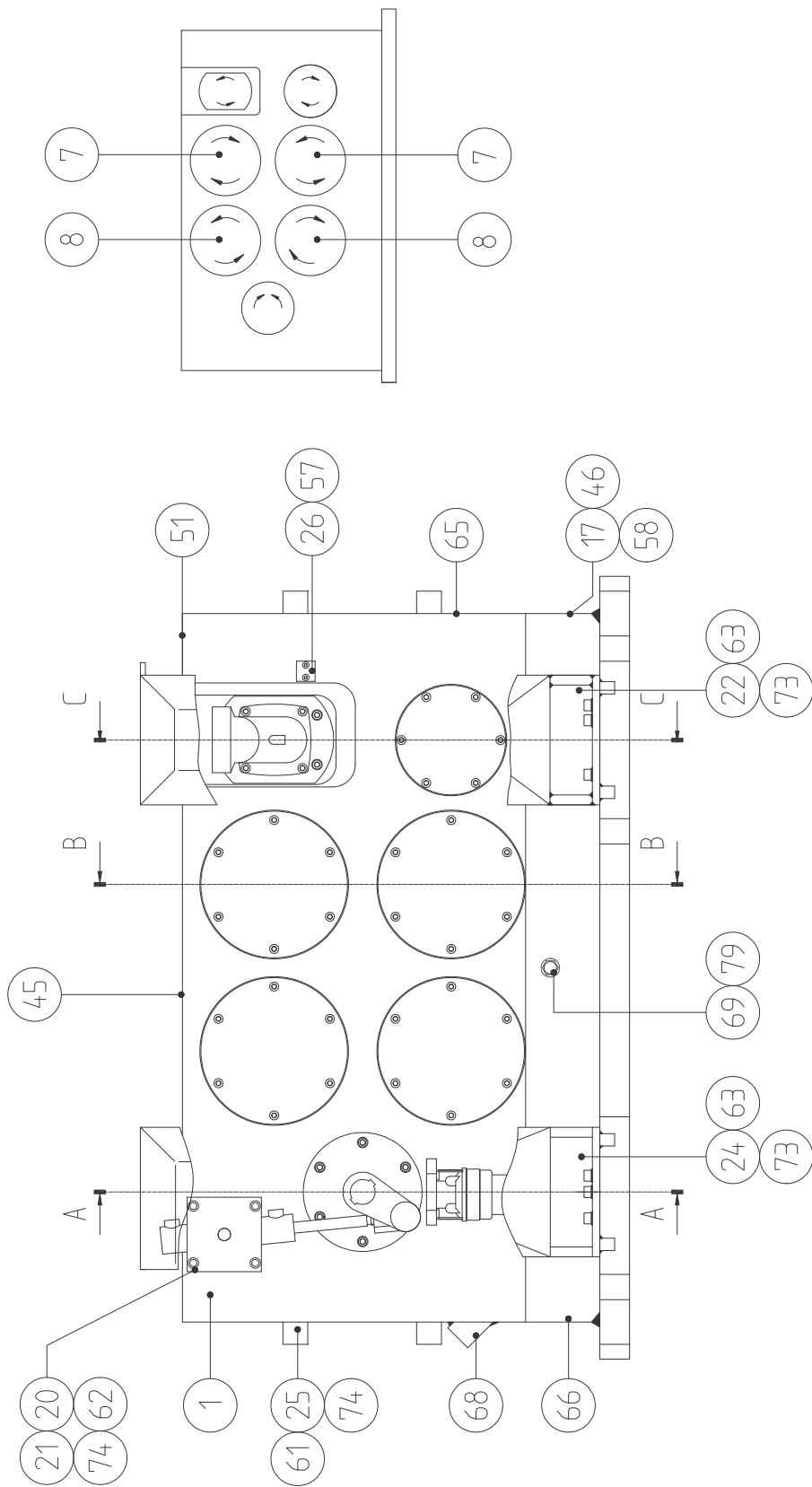
14RF2002

<u>ITEM</u>	<u>QTY</u>	<u>DESCRIPTION</u>	<u>Part No.</u>
1	1	VIBRATION CASE ADAPTER	94021126
2	1	HOSE CLAMP	94021121
3	1	HOSE CLAMP	94021133
4	16	ELASTOMER	130.023
5	102	SHCS 1/2"-13 x 2"	100.011
6	9	SHCS 5/8"-11 x 1 1/2"	110.225
7	2	SHCS 5/8"-11 x 4 1/2"	100.773
8	27	SHCS 3/4"-10 x 4 1/2"	120.171
9	96	LOCK NUT 1/2"-13	130.049
10	12	PLUG 1/4" NPT	100.845
11	4	PLUG 1/2" NPT	100.423
12	2	PLUG 3/4" NPT	100.187
13	1	PLUG 1" NPT	100.063
14	11	FLATWASHER 17-S	110.081
15	27	FLATWASHER HV Ø 21	9206011
16	6	SPRINGWASHER 1/2"	100.121
17	2	PARALLEL PIN Ø 16m6x80	9210035

VIBRATION CASE ASSEMBLY

18RF-ts

18RF3003



VIBRATION CASE ASSEMBLY

18RF-ts

18RF3003

ITEM	QTY	DESCRIPTION	Part No.
1	1	VIBRATION CASE	9901110
2	4	ECCENTRIC SHAFT	9702105
3	1	MOTOR-PUMP GEAR SHAFT	9710113
4	1	MOTOR-PUMP GEAR SHAFT	9804102
5	1	PUMP SHAFT SPLINED	9302001
6	4	ECCENTRIC	0111103
7	2	ECCENTRIC GEAR	0001101
8	2	ECCENTRIC GEAR	0001100
9	2	MOTOR GEAR	0004102
10	1	FLANGE COVER CYLINDERSIDE	0007115
11	1	FLANGE COVER BACKSIDE	9901128
12	1	FLANGE COVER	0007116
13	2	MOTOR MOUNTING PLATE	94021128
14	1	PUMP MOUNTING PLATE	94021114
15	8	BEARING COVER	9209110
16	1	BEARING COVER	94021110
17	2	COVER	9210102
18	1	LEVER	9901115
19	1	KEY COVER	9901117
20	1	BASE FRAME	9904105
21	1	BASE FRAME COVER	9904107
22	1	MOTOR GUARD	94021129
23	1	MOTOR GUARD	9804103
24	1	ACTUATOR GUARD	94021134
25	4	HOSE CLAMP	140.095
26	1	HOSE CLAMP	100.015
27	1	ACTUATOR	0001102
28	1	ARLON FILTER AGS50	9209010
29	1	ARLON FILTER ELEMENT	9209011
30	1	MOTOR F12-80 "special" spline F12-60	0007001
31	1	MOTO F12-80*	793.003
32	1	PUMP 2S10	9305009
33	4	BEARING	9401038
34	8	BEARING	9902008
35	2	BEARING	0007117
36	1	CYLINDER	9904013
37	1	CYLINDER BEARING	9904012
38	2	KEY	14x9x79 9901118
39	4	KEY DIN 6885	28x16x170 793.022
40	14	PARALLEL PIN DIN 7	12m6x28 9202022

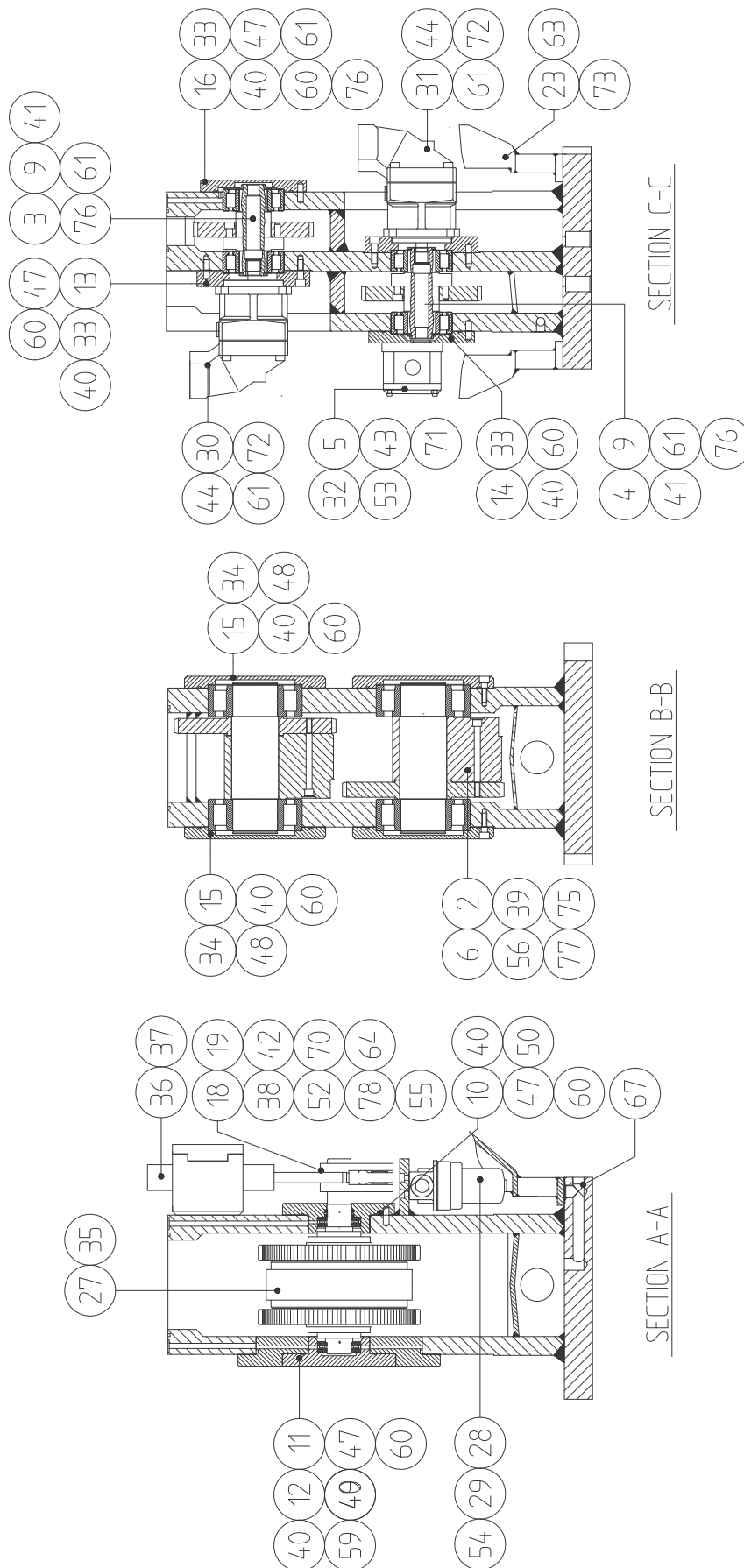
* SERVICE PARTS FOR MOTOR F12-80

O-RING 134,5 x 3	9702015
O-RING 104,5 x 3	9702021
MOTOR SHAFT SEAL	110.605

VIBRATION CASE ASSEMBLY

18RF-ts

18RF3003



VIBRATION CASE ASSEMBLY

18RF-ts

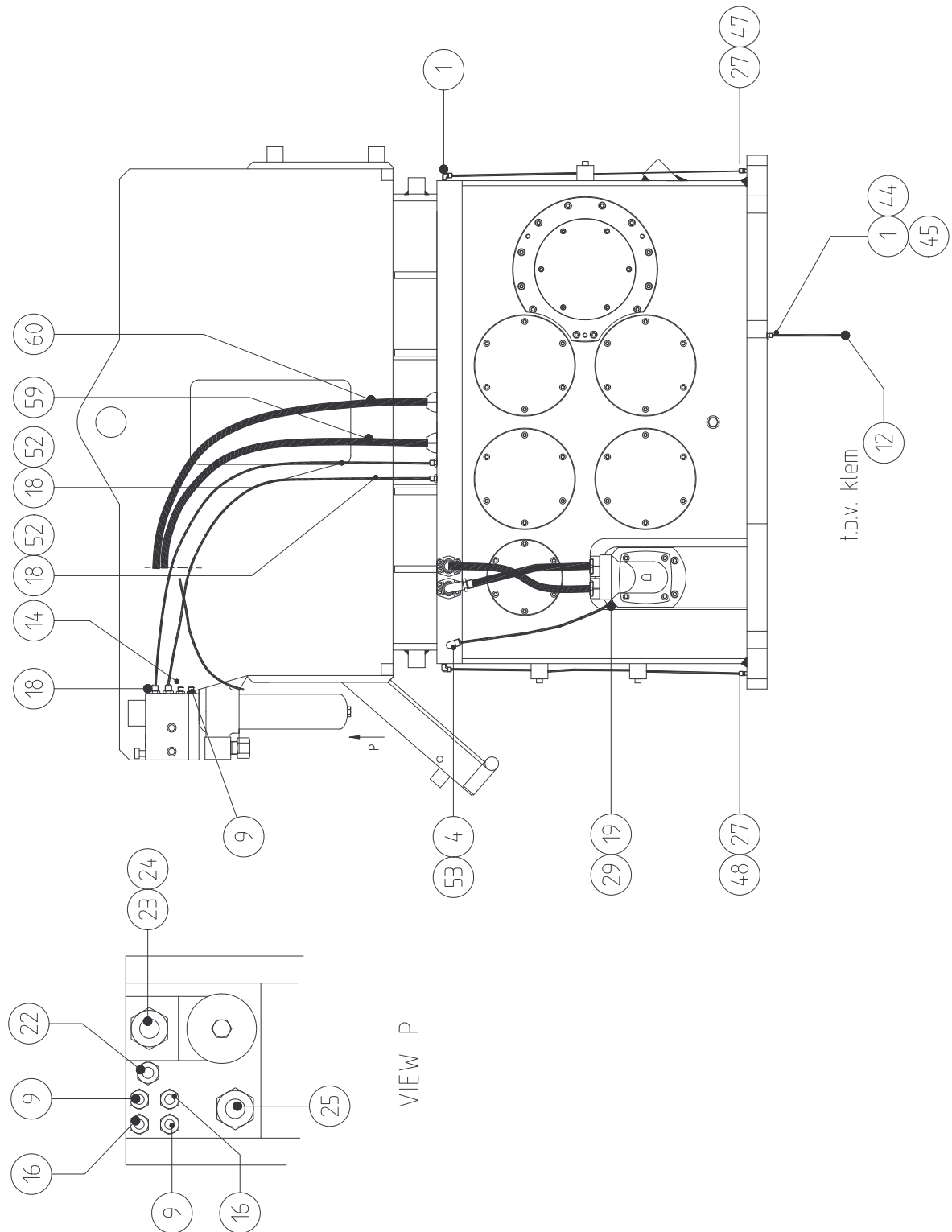
18RF3003

<u>ITEM</u>	<u>QTY</u>	<u>DESCRIPTION</u>	<u>Part No.</u>
41	2	PARALLEL PIN DIN 7	9308029
42	1	PIN	9909103
43	1	O-RING #028	795.021
44	2	O-RING #159	110.197
45	9	O-RING #210	100.107
46	2	O-RING #230	110.829
47	6	O-RING #258	9202012
48	8	O-RING #271	9202039
49	1	O-RING Ø345 x 5	9901003
50	2	QUAD-RING	9902007
51	1	O-RING Dia. 5.33	9209012
52	4	SHCS M6 x 20	9204005
53	4	SHCS M8 x 30	790.061
54	4	SHCS M10 x 22	9209013
55	3	SHCS M10 X 35	9205035
56	8	SHCS M12 x 150	791.272
57	2	3/8" – 16 x 1 1/4"	100.143
58	12	SHCS 5/16" - 18 x 1"	100.105
59	6	SHCS 3/8" x 16 x 1"	100.051
60	78	SHCS 1/2" - 13 x 1 1/4"	100.119
61	40	SHCS 1/2" - 13 x 1 1/2"	100.513
62	4	SHCS 1/2"-13 x 2"	100.011
63	19	SHCS 5/8" - 10 x 1 1/2"	110.225
64	2	HHCS M8 x 16	0102009
65	1	PLUG 1/4" NPT	100.845
66	1	PLUG 1/2" NPT	100.423
67	1	PLUG 3/4" NPT (MAG.)	100.187
68	1	PLUG 1 1/2" NPT	140.149
69	1	SIGHT GAUGE	100.185
70	4	FLATWASHER M6	790.102
71	4	FLATWASHER M8	790.103
72	8	SPRINGWASHER 1/2"	100.121
73	19	FLATWASHER 17 St.	110.081
74	12	SPRINGWASHER 1/2" HC	100.027
75	8	RETAINING RING DIN 472	9303007
76	4	RETAINING RING	794.069
77	8	RETAINING RING	9702023
78	2	WEAR RING	9912101
79	25	Ltr. SHC 630	790.894

HYDRAULIC ASSEMBLY

18RF-ts

18RF4003



HYDRAULIC ASSEMBLY

18RF-ts

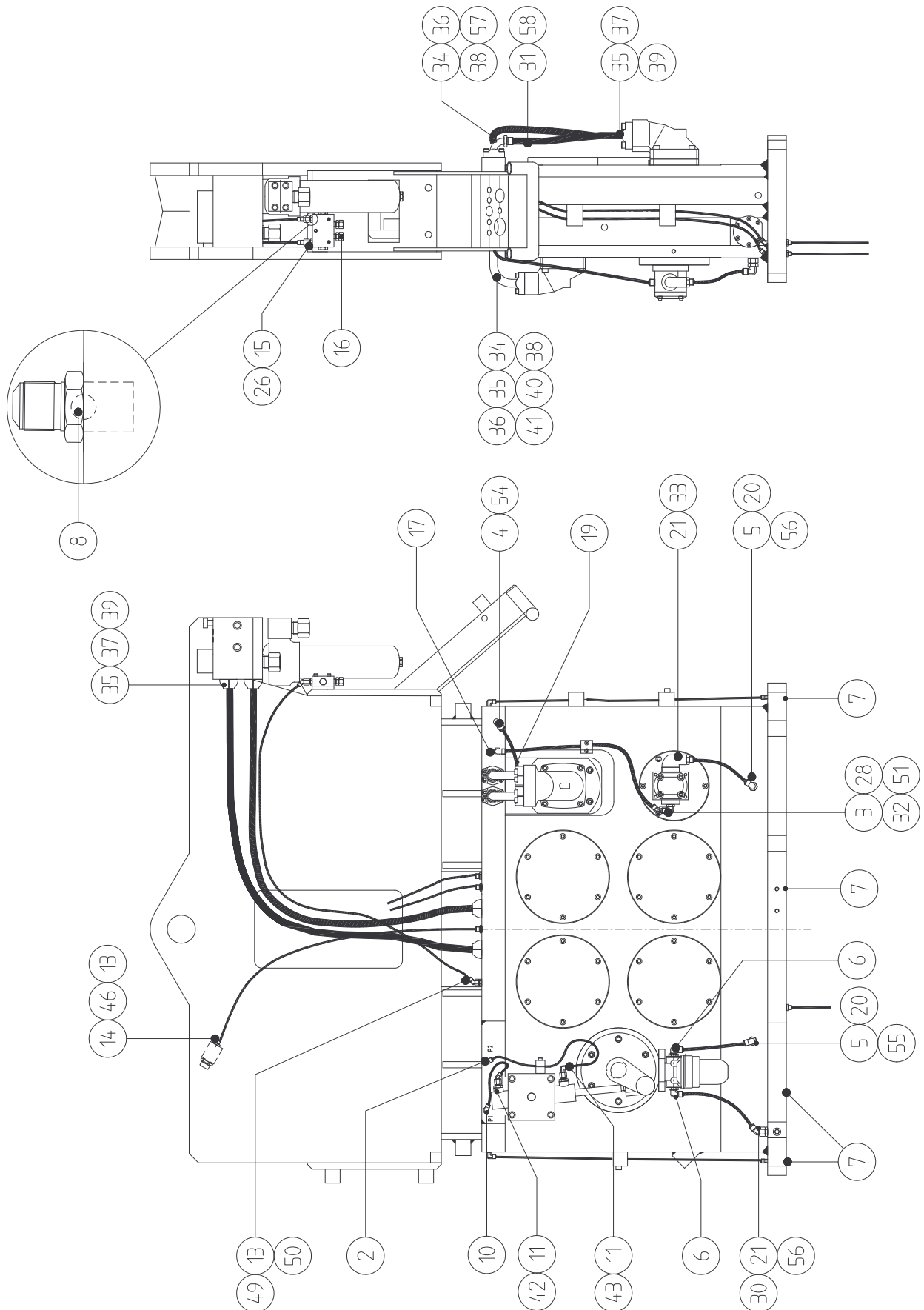
18RF4003

ITEM	QTY	DESCRIPTION	Part No.
1	6	FITT2L-04P06M	100.717
2	1	FITT2L-04M06P	100.145
3	1	FITT2L-08M08S	9304012
4	3	FITT2L-08P10M	9502006
5	2	FITT2L-12M12J	100.769
6	2	FITT2L-12M12S	790.636
7	15	FITT2P-04P	100.845
8	2	FITT2P-01P000000-00SS0B1	d=1 mm 9607019
9	3	FITT2P-06P	400.213
10	2	FITT2S-04M04P	110.203
11	2	FITT2S-04M06S	791.103
12	2	FITT2S-06M06R	100.053
13	5	FITT2S-06M04P	130.399
14	4	FITT2S-06M06P	400.203
15	2	FITT2S-06M06S	795.087
16	4	FITT2S-06P06N	100.041
17	1	FITT2S-08M06S	9608016
18	4	FITT2S-08M08P	110.173
19	2	FITT2S-10M10R	120.035
20	2	FITT2S-12M08S	790.916
21	2	FITT2S-12M12S	790.804
22	1	FITT2S-12P12N	100.043
23	1	FITT2S-20P20N	100.039
24	1	FITT2S-24P20Q	400.159
25	1	FITT2S-24P24N	110.115
26	4	FITT2V-06M06J	9502007
27	4	FITT2V-06R06M	100.203
28	1	FITT2V-08M08J	790.639
29	1	FITT2V-10M10J	9610013
30	1	FITT2V-12M12J	300.231
31	1	FITT9L-12H36C	9503020
32	1	PUMP FLANGE 1/2" 0°	795.125
33	1	PUMP FLANGE 3/4" 90°	795.124
34	4	SPLITFLANGE KIT #12-6000 psi	140.467
35	12	SPLITFLANGE KIT #16-6000 psi	100.927
36	4	O-RING #214	100.097
37	12	O-RING #219	100.091
38	16	SHCS 3/8"-16 x 1 1/4"	100.143
39	48	SHCS 7/16"-14 x 1 3/4"	100.439
40	1	HYDRAULIC CONNECTION PIPE (RIGHT)	0007114

HYDRAULIC ASSEMBLY

18RF-ts

18RF4003



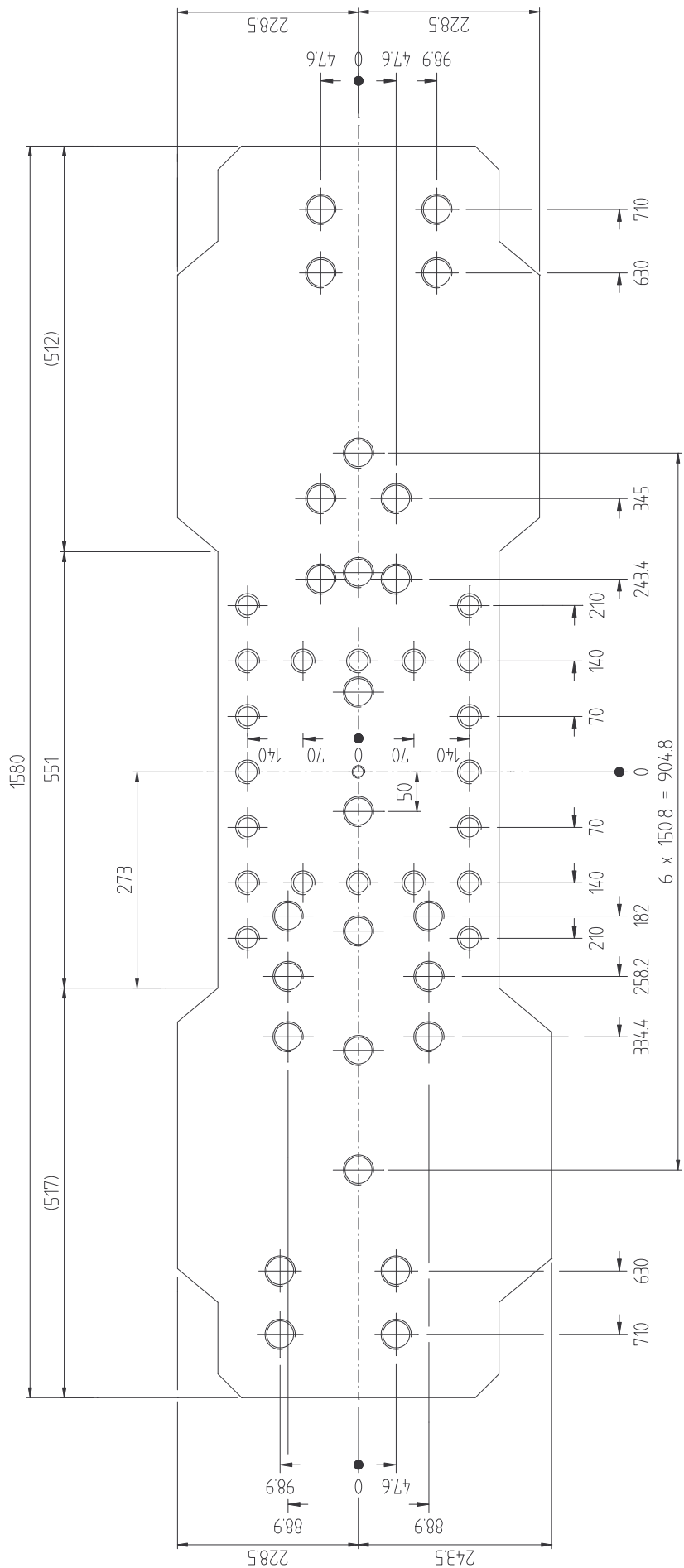
HYDRAULIC ASSEMBLY

18RF-ts

18RF4003

<u>ITEM</u>	<u>QTY</u>	<u>DESCRIPTION</u>	<u>Part No.</u>
41	1	HYDRAULIC CONNECTION PIPE (LEFT)	0007113
42	1	HOSE025R02J004J004L01260	9904008
43	1	HOSE025R02J004J004L02030	9904009
44	1	HOSE038R02J006J006L00850	9109028
45	1	HOSE038R02J006J006L00900	0005001
46	1	HOSE038R02J006J006L04410	9501033
47	2	HOSE038R02J006J006L03400	794.071
48	2	HOSE038R02J006J006L03500	795.066
49	2	HOSE038R02J006J006L06220	9507037
50	2	HOSE038R02J006J006L05900	9507030
51	1	HOSE050R01J908J008L02190	9903034
52	2	HOSE050R02J008J008L05220	9211011
53	1	HOSE050R02J010J010L01740	9608017
54	1	HOSE050R02J010J010L00590	9608018
55	1	HOSE063R01J012J012L00700	9512012
56	2	HOSE063R01J012J012L00800	9306029
57	1	HOSE075PT4H912H016L01840	9903032
58	1	HOSE075PT4H016Y036L01650	9903033
59	2	HOSE100PT4H016H016L05600	9211013
60	2	HOSE100PT4H016H016L05960	9211012

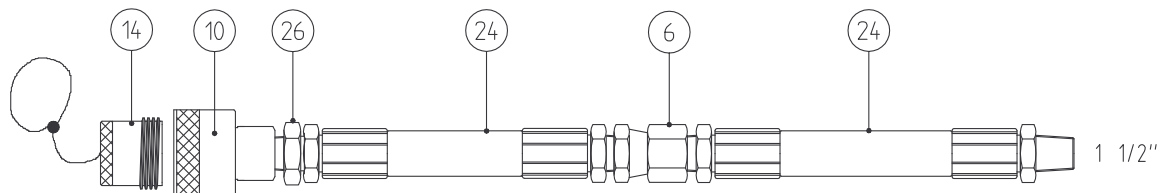
BOTTOM VIEW OF VIBRATION CASE **18RF-ts**



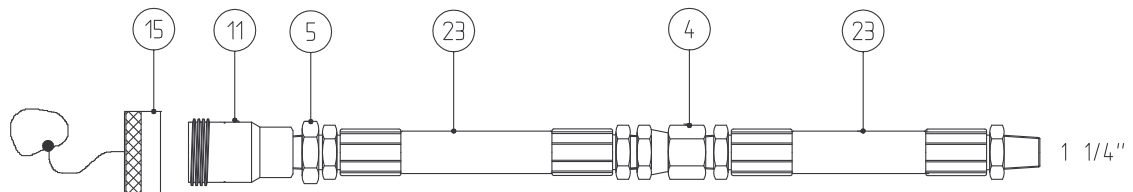
HOSE ASSEMBLY

18RF-ts

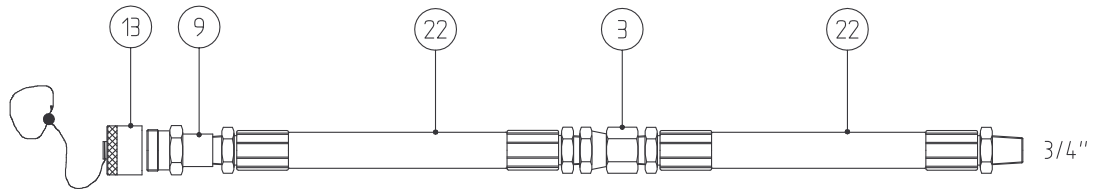
18RF0023



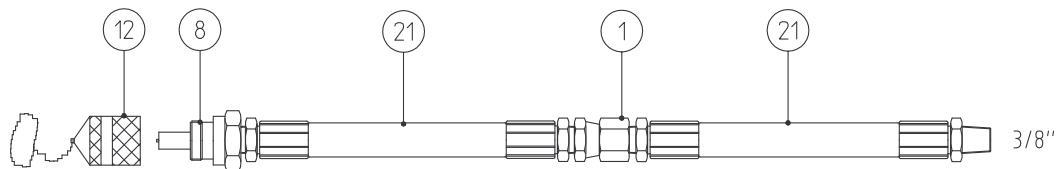
DRIVE RETURN



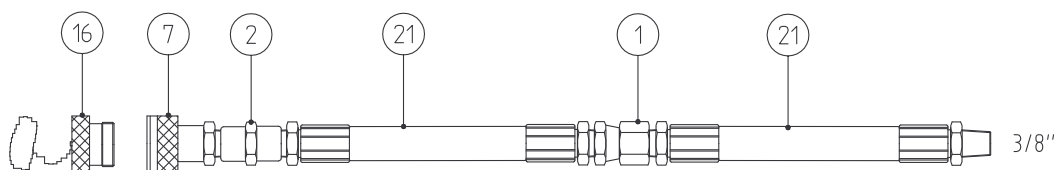
DRIVE PRESSURE



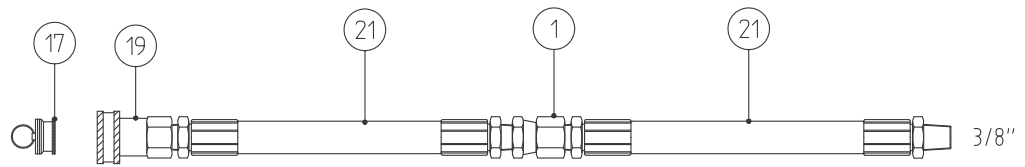
CASE DRAIN



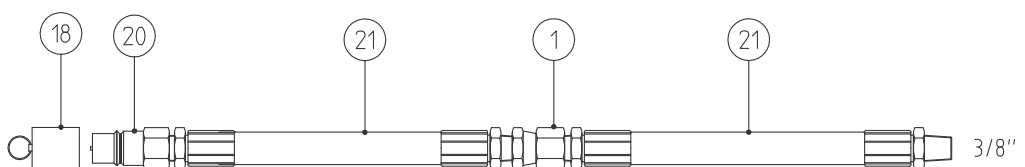
CLAMP OPEN



CLAMP CLOSE



PRESSURE ACTUATOR



RETURN ACTUATOR

HOSE ASSEMBLY

18RF-ts

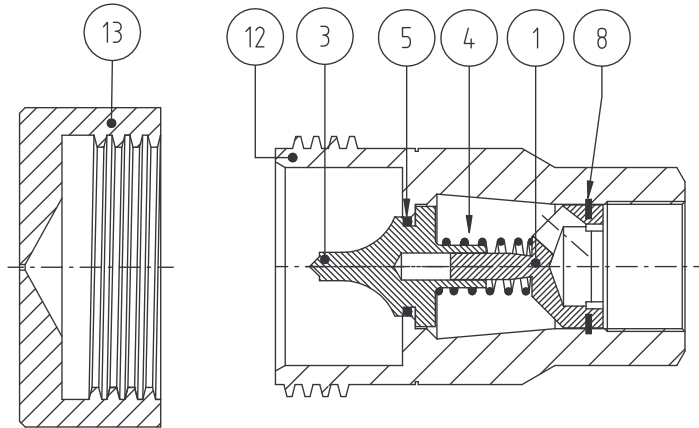
14RF0023

<u>ITEM</u>	<u>QTY</u>	<u>DESCRIPTION</u>	<u>Part No.</u>
1	4	FITT2S-06N06Q	100.249
2	1	FITT2S-06Q06Q	110.143
3	1	FITT2S-12N12Q	100.243
4	1	FITT2S-20Q20N	100.235
5	1	FITT2S-24P20Q	400.159
6	1	FITT2S-24N24Q	110.139
7	1	FEMALE DISCONNECT 3/8"	100.777
8	1	MALE DISCONNECT 3/8"	100.245
9	1	MALE DISCONNECT 1"	120.023
10	1	FEMALE DISCONNECT 1 1/2"	110.692
11	1	MALE DISCONNECT 1 1/2"	110.690
12	1	DUST CAP 3/8"	100.257
13	1	DUST CAP 1"	120.029
14	1	DUST PLUG 1 1/2"	110.957
15	1	DUST CAP 1 1/2"	110.955
16	1	DUST PLUG 3/8"	100.737
17	1	DUST PLUG 3/8"	9404009
18	1	DUST PLUG 3/8"	9404010
19	1	COUPLER FEMALE 3/8"	9404007
20	1	COUPLER MALE 3/8"	9404008
21	8	HOSE038R02P006P006L62000	100.247
22	2	HOSE075R04P012P012L62000	100.241
23	2	HOSE125PT4P020P020L60000	100.233
24	2	HOSE150PT6P024P024L60000	110.141
25	15	RUBBER TIE DOWN	130.243
26	1	FITT2S-12Q12P	100.453

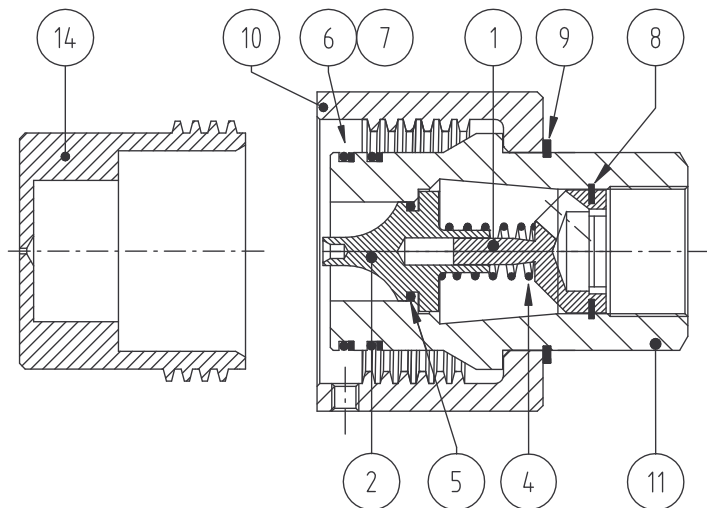
HOSE ASSEMBLIES

QUICK DISCONNECT 1½"

MALE (110.690)



FEMALE (110.692)



HOSE ASSEMBLIES

QUICK DISCONNECT 1½"

<u>ITEM</u>	<u>QTY</u>	<u>DESCRIPTION</u>	<u>Part. No.</u>
1	2	INSERT 1	850.067/1
2	1	INSERT 2	850.067/2
3	1	INSERT 3	850.067/3
4	2	VALVE GUIDE SPRING 16 X 50	790.140
5	2	O-RING #216	790.139
6	2	O-RING #230	110.829
7	2	BACK-UP RING #230	110.980
8	2	RETAINING RING (45 x 1.75)	790.155
9	1	RETAINING RING (70 x 2.5)	790.154
10	1	COUPLER NUT	110.692/2
11	1	FEMALE COUPLER HOUSING	110.692/1
12	1	MALE COUPLER HOUSING	110.690
13	1	DUST CAP	110.955
14	1	DUST PLUG	110.957

REPAIRKIT 1 ½ "QUICK DISCONNECT MAIL + FEMALE	850.067
---	---------

<u>QTY</u>	<u>DESCRIPTION</u>	<u>Part. No.</u>
2	INSERT 1	850.067/1
1	INSERT 2	850.067/2
1	INSERT 3	850.067/3
2	O-RING #216	790.139
2	VALVE GUIDE SPRING 16 X 50	790.140
2	RETAINING RING (45 x 1.75)	790.155