

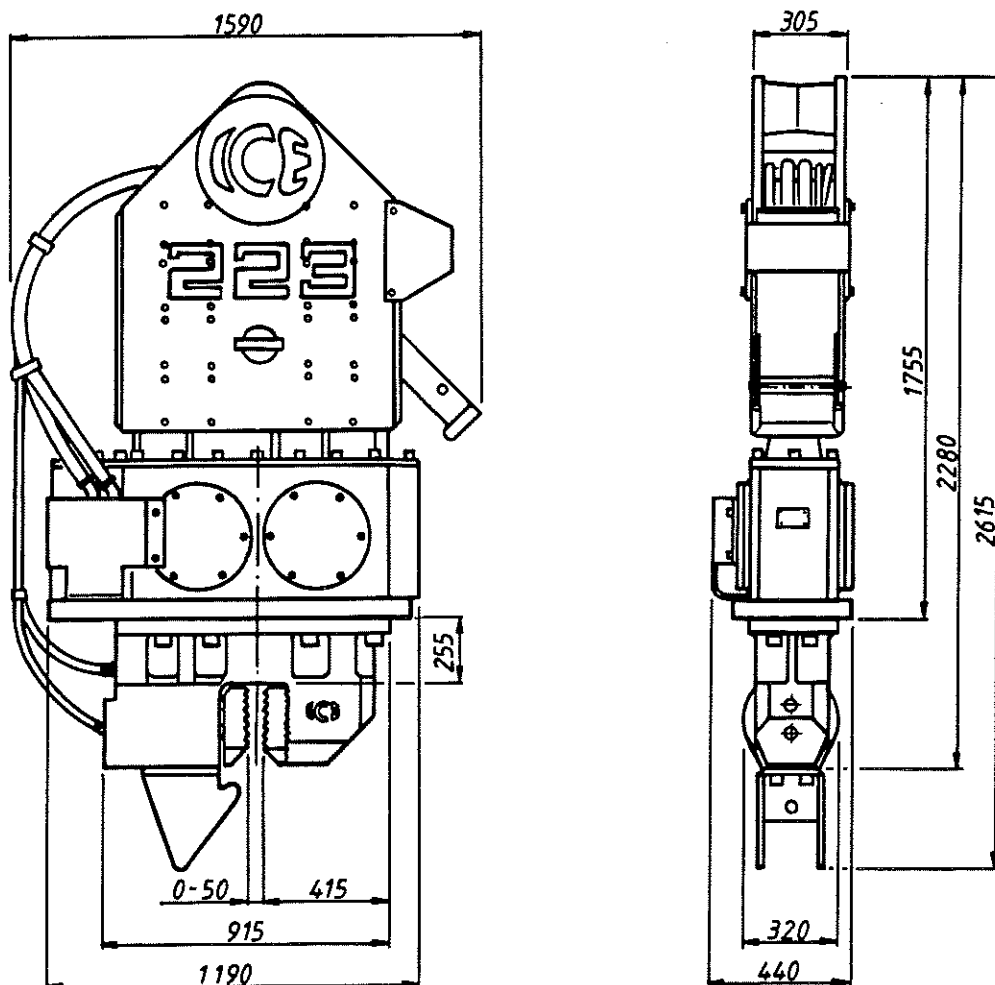
PART NO.: 22300040

VIBRATORY HAMMER 223

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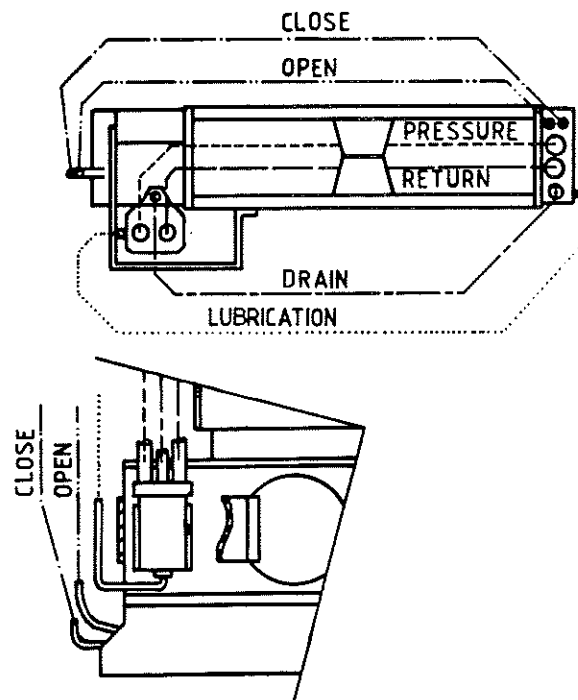
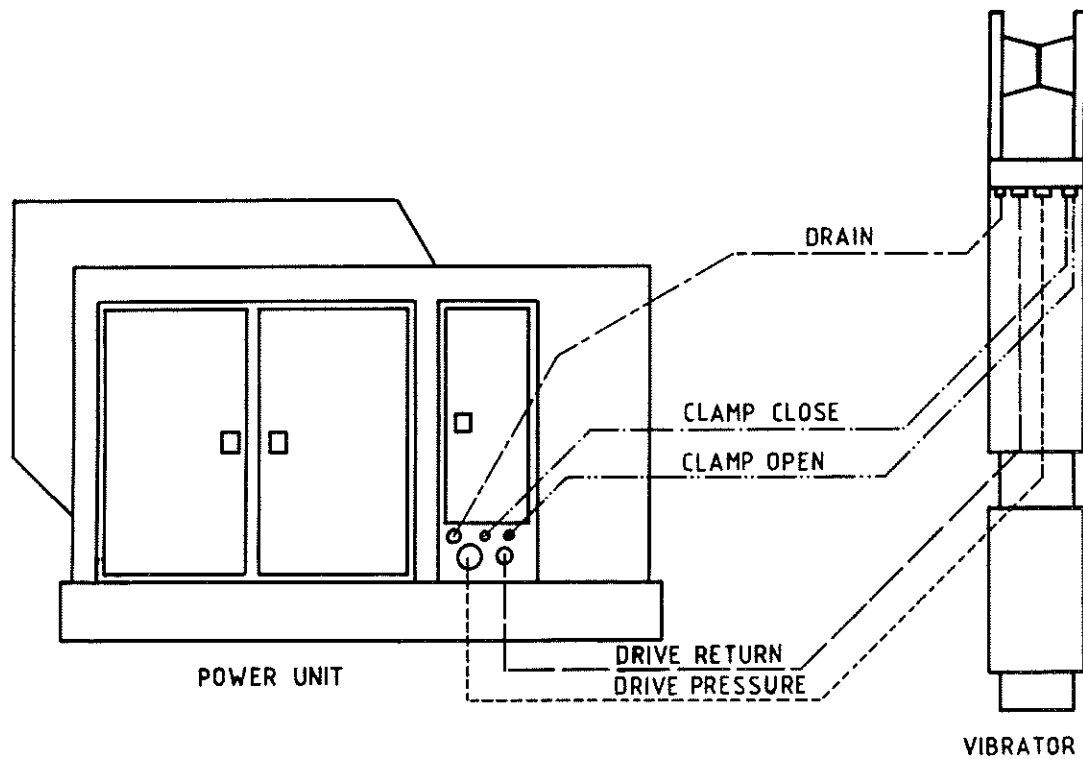
VIBRATORY HAMMER 223

Specifications :

Eccentric moment	: 11,5 kgm
Max. centrifugal force	: 670 kN
Max. frequency	: 2300 rpm
Max. amplitude	: 12,6 mm
Max. hydraulic power	: 157/213 (kW/HP)
Pile clamping force	: 800 kN
Max. static line pull for extraction	: 250 kN
Max. oil flow	: 320 l/min
Max. pressure	: 300 bar
Total weight with clamp and hoses	: 2570 kg

VIBRATORY HAMMER 223

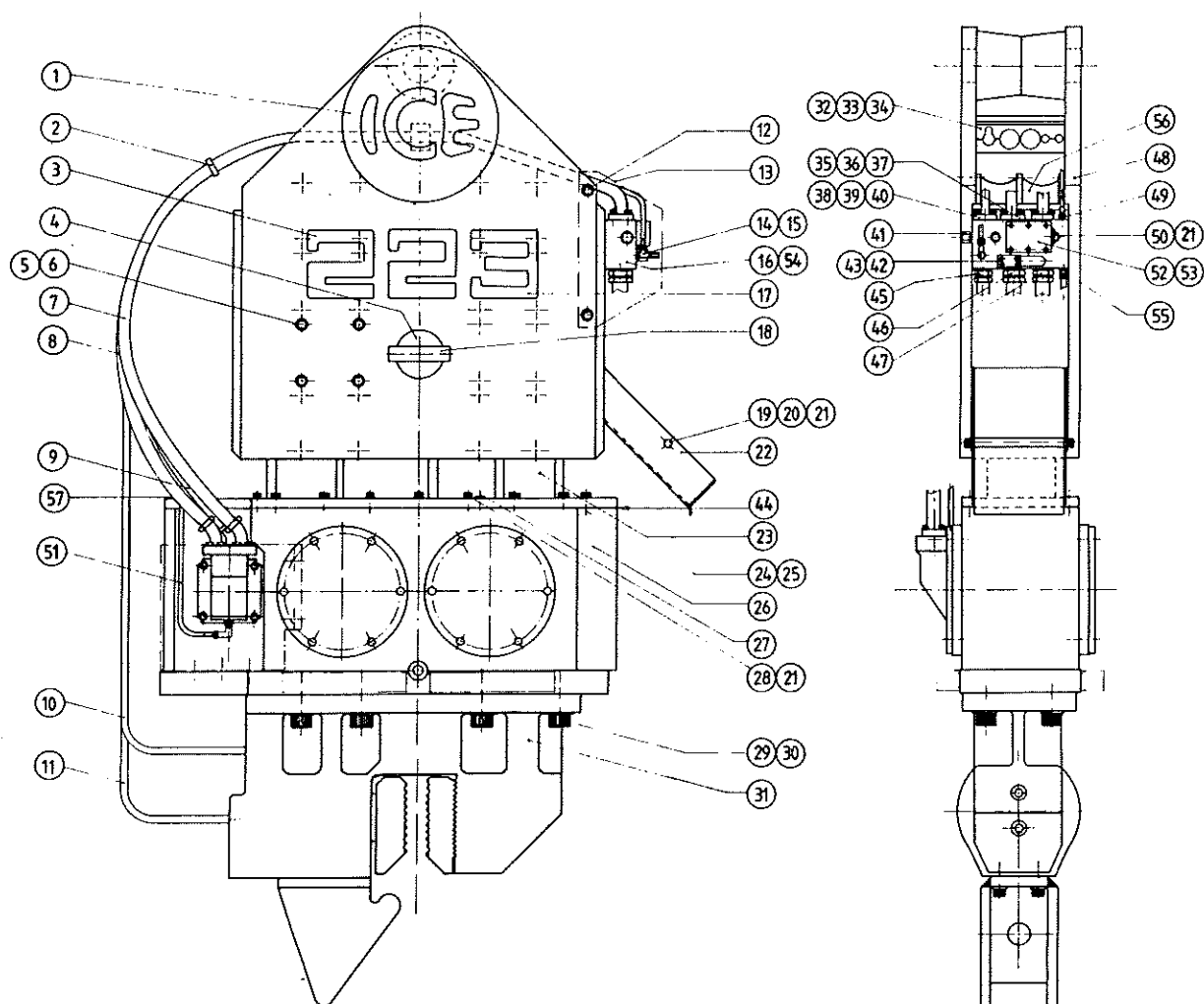
CONNECTION OF HYDRAULIC HOSES



VIBRATORY HAMMER 223

ASSEMBLY

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VIBRATORY HAMMER 223

ASSEMBLY

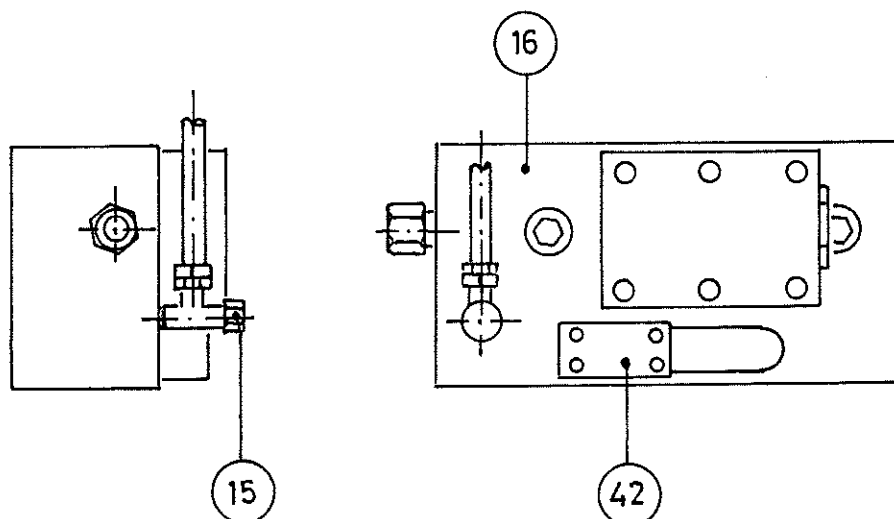
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Item	P/N	Qty.	Description
1	400277	2	ICE Logo
2	130243	9	Rubber Tie Down
3	110749	4	Logo "2"
4	130015	1	Stop Pin
5	100011	98	SHCS 1/2"-13 x 2"
6	130049	96	Locknut 1/2"
7	790417	1	Return Hose
8	790416	1	Pressure Hose
9	790395	1	Drain Hose
10	790649	1	Hose 038R02J006J406L01240S
11	790650	1	Hose 038R02J006J406L01260S
12	100021	4	FHCS 1/2"-13 x 1 1/2"
13	130239	1	Coupler Guard
14	130191	1	Adaptor
15	100057	1	Adaptor
16	790497	1	Manifold
17	790425	2	Logo "3"
18	110715	2	Bar
19	130299	1	Hose Guide Rod
20	100575	2	SHCS 5/8"-11 x 1 1/4"
21	100007	12	Lockwasher 5/8"
22	130297	1	Hose Guide
23	130295	1	Transmission Case Adaptor
24	100067	15	SHCS 3/4"-10 x 2 1/2"
25	100069	15	Lockwasher 3/4"
26	790206	1	Transmission Case
27	100423	1	Pipe Plug 1/2"
28	100071	10	SHCS 5/8"-11 x 2 1/2"
29	790324	8	SHCS 1 1/2"-6 x 4"
30	130219	8	Lockwasher 1 1/2"
31	790503	1	223 Clamp Assembly
32	790651	1	Hose Clamp
34	100027	2	Lockwasher 1/2"
35	100045	4	Split Flange Half
36	100851	8	SHCS 7/16"-14 x 1 1/4"
37	100037	2	O-ring (#222)
38	100049	2	Split Flange Half
39	100143	4	SHCS 3/8"-16 x 1 1/4"
40	100097	1	O-ring (#214)

VIBRATORY HAMMER 223

ADJUSTMENT PRESSURE REDUCE VALVE (POS 42)

- Connect hose assemblies set to the powerpack.
- Connect pressure gauge to connection Pos. 15.
(Thread connection JIC6 male).
- Connect drain-oil flow meter between drain hose and powerpack.
- Start powerpack and turn vibrator switch on "rev".
Engine r.p.m. should be approx. 2000 rpm.
- Adjust pressure reduce valve (pos. 42) on ± 5 bar,
max. 6 bar.
- Measure the drain-oil flow. Should be between 10 and
15 liters/min.
- In case drain-oil flow meter is not available, measure
drain-flow as follows:
- Disengage quick-disconnect from 30m drain hose,
hang free end in a bucket, measure during 60 sec.
- Check also drain-oil flow during vibration, flow
must still be between 10 and 15 liters/min.
- Above mentioned procedure must be followed with an
hydraulic oil temperature of at least 40°C.



VIBRATORY HAMMER 223

ASSEMBLY

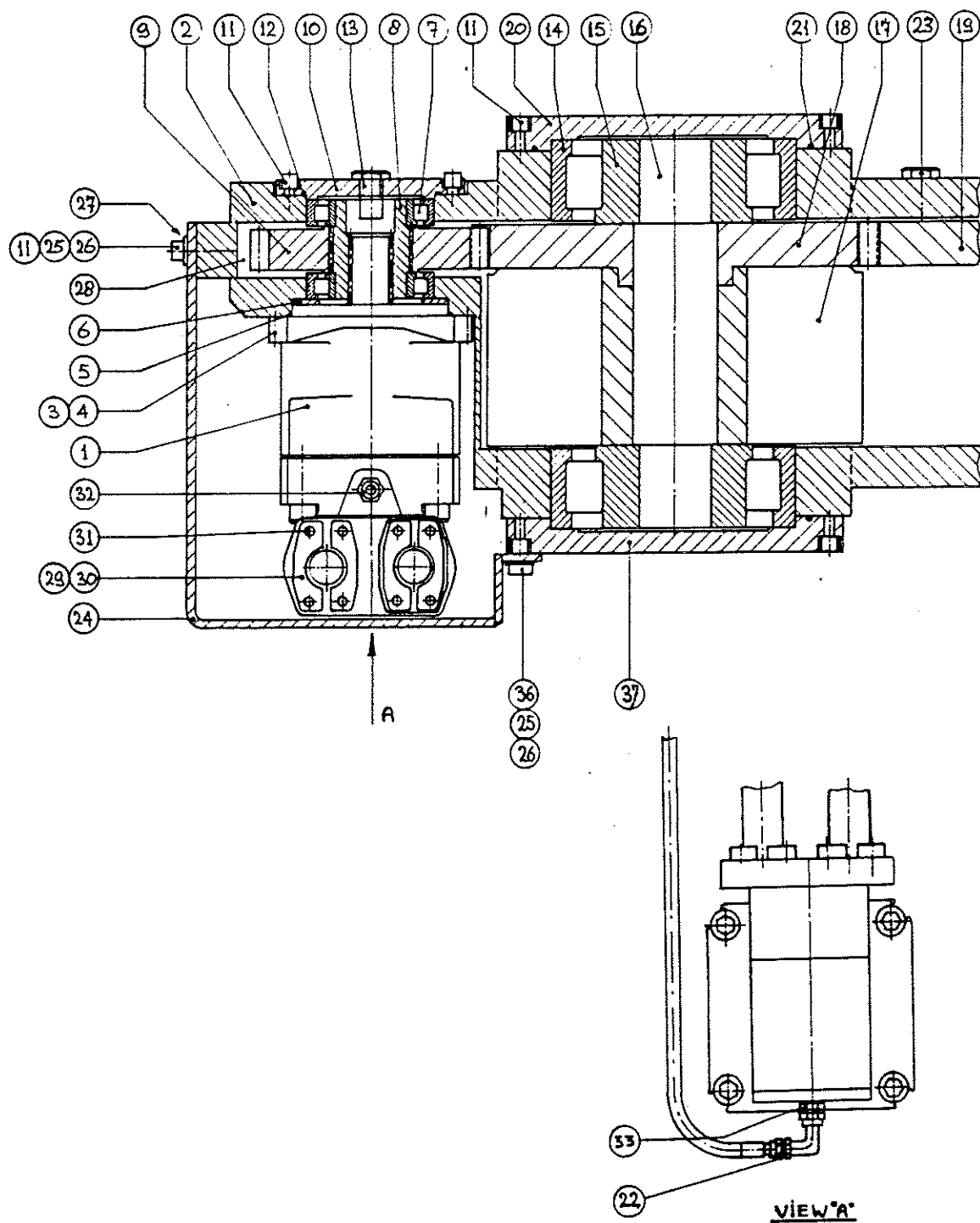
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Item	P/N	Qty.	Description
41	790939	1	Relief Valve
42	790499	1	Valve DR6 DP2 - 32/25 Y
43	790500	4	SHCS M5 x 50
44	130289	1	Transmission Case Gasket
45	100043	1	Adaptor
46	110115	1	Adaptor
47	100039	1	Adaptor
48	130045	1	Suppressor Housing
49	100053	2	Adaptor
50	130135	2	SHCS 5/8"-11 x 3 1/2"
51	130173	1	Hose 3/8" x 110"
52	100695	1	Check Valve RVP - 20 - 1.0
53	400361	6	SHCS 5/16"-18 x 2"
54	100646	3	SHPP 1/8"
55	100041	2	Adaptor
56	130023	16	Elastomer
57	100063	1	Pipe Plug 1"
58	130261	2	5/8" Springwasher HC

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VIBRATION CASE ASSEMBLY

790206



VIBRATORY HAMMER 223

VIBRATION CASE ASSEMBLY

790206

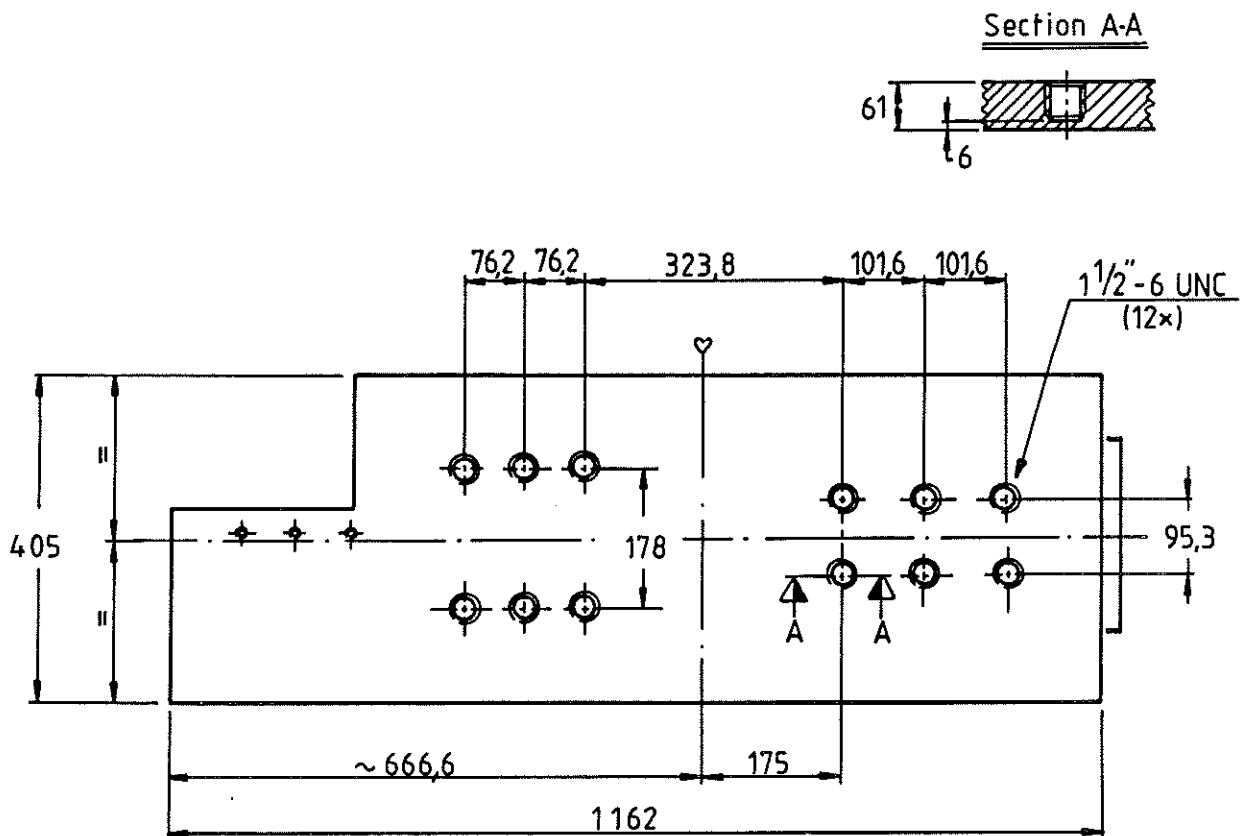
Item	P/N	Qty.	Description
1	790407	1	Drive Motor F11 - 78
2	790206	1	Transmission Case
3	9211001	4	HHCS 3/4"-10 x 2"
4	100069	4	Lockwasher 3/4"
5	110195	1	O-Ring # 163
6	790422	1	Distance Ring
7	110191	2	Roller Bearing
8	790208	1	Motor Gear Shaft
9	110185	1	Motor Gear
10	110855	1	Bearing Cap
11	100119	31	SHCS 1/2"-13 x 1 1/4"
12	110197	1	O-Ring (#159)
13	810229	1	Centrifugal Breather
14	790333	4	Bearing NJ 2322 EMA
15	790408	4	Inner Ring
16	790376	2	Eccentric Shaft
17	130013	2	Eccentric
18	150005	1	Eccentric Gear
19	150007	1	Eccentric Gear
20	790207	3	Bearing Cover
21	790424	4	O-Ring (#275)
22	130057	1	FITT 2L-06M06R000-000H001
23	100185	1	Sight Gauge
24	790421	1	Motor Guard
25	100121	6	Lockwasher 1/2"
26	100483	6	Flatwasher 1/2"
27	100187	1	Pipe Plug
28	100735	8 ltr.	Transmission Oil
29	810289	4	Split Flange Half
30	100037	2	O-Ring (#222)
31	110982	8	SHCS M14 x 55
32	110984	1	FITT 2S-08M12S000-000H001
33	790441	1	FITT 2S-14S06K000-000H001
34	140143	4	SHCS 1/2"-13 X 3/4"
35	790558	5	T-RING 3/4"
36	100445	2	SHCS 1/2" - 13 X 1"
37	9211101	1	BEARING COVER

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VIBRATORY HAMMER 223

BOTTOM VIEW OF VIBRATION CASE

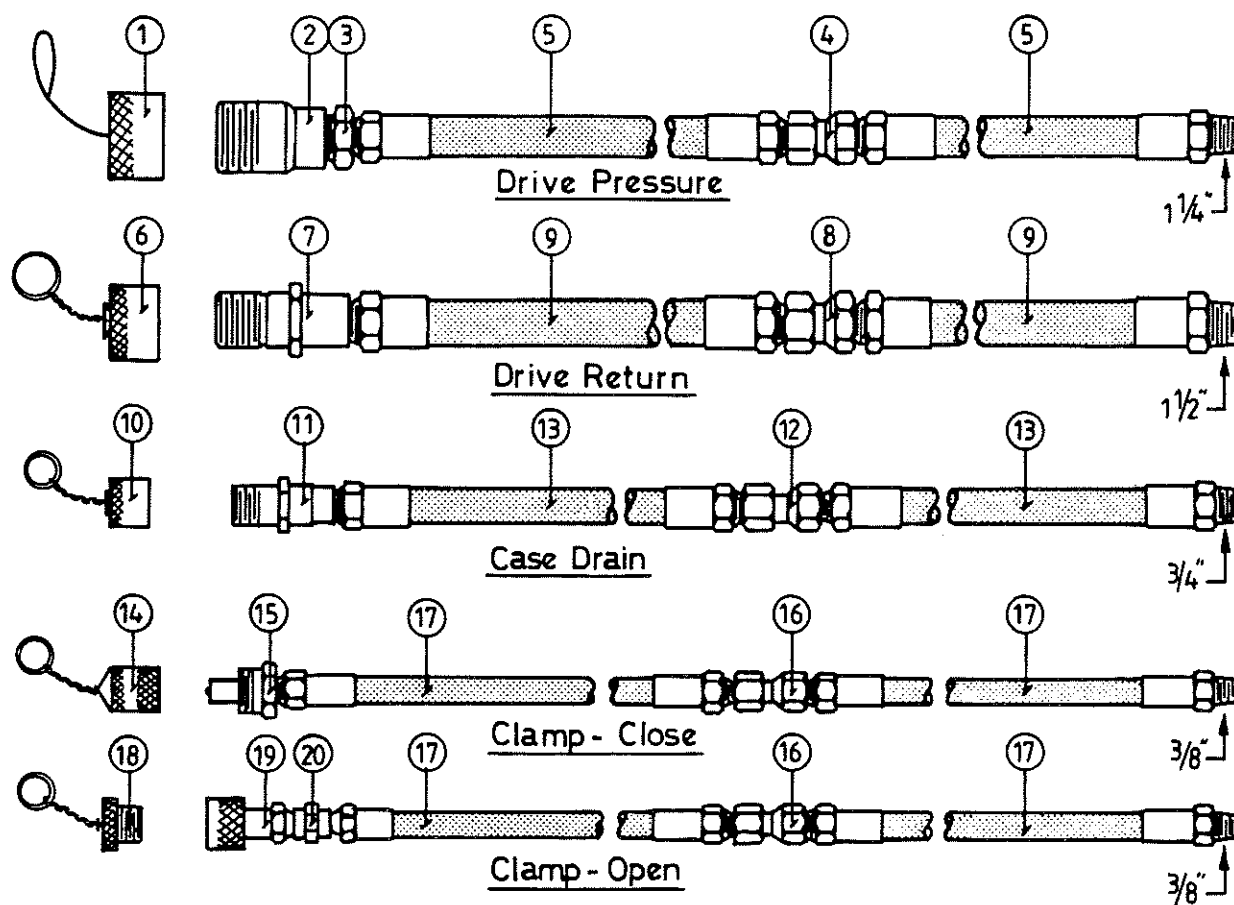
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VIBRATORY HAMMER 223

HOSE ASSEMBLIES - INTERCONNECTING

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VIBRATORY HAMMER 223

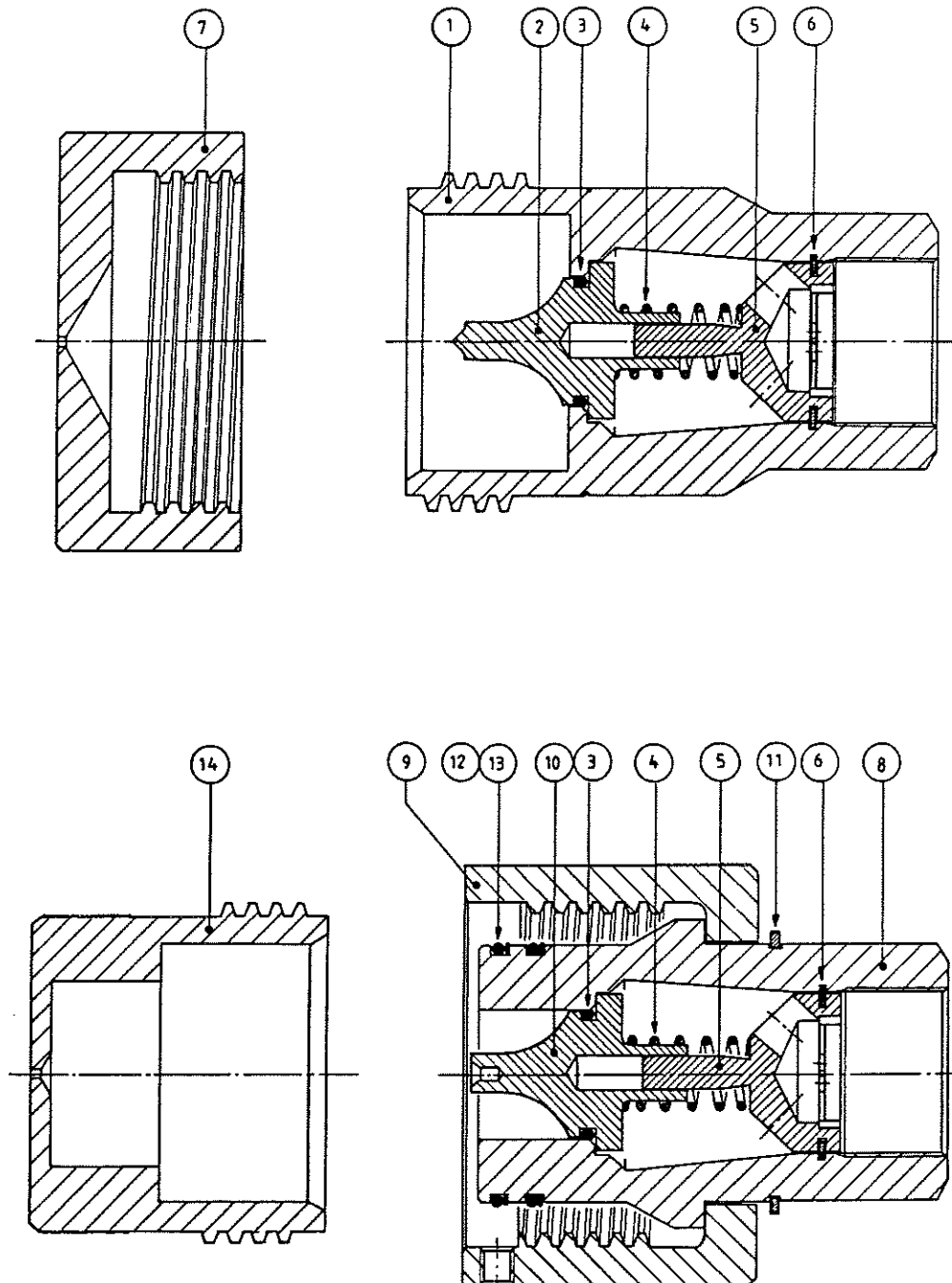
HOSE ASSEMBLIES - INTERCONNECTING

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Item	P/N	Qty.	Description
1	110955	1	Dust Cap 1 1/2"
2	110690	1	Male Disconnect 1 1/2"
3	400159	1	FITT 2S-24P20Q000-000H001
4	100235	1	FITT 2S-20Q20N000-000H001
5	100233	2	HOSE 125 R10 P020 P020 L60000
6	100893	1	Dust Cap 1 1/2"
7	100897	1	Male Disconnect 1 1/2"
8	110139	1	FITT 2S-24Q24N000-000H001
9	110141	2	HOSE 150 R11 P024 P024 L60000
10	400253	1	Dust Cap 3/4"
11	400251	1	Male Disconnect 3/4"
12	100243	1	FITT 2S-12Q12N000-000H001
13	100241	2	HOSE 075 R02 P012 P012 L62000
14	100257	1	Dust Cap 3/8"
15	100245	1	Male Disconnect 3/8"
16	100249	2	FITT 2S-06Q06N000-000H001
17	100247	4	Hose 038 R02 P006 P006 L62000
18	100737	1	Dust Plug 3/8"
19	100777	1	Female Disconnect 3/8"
20	110143	1	Adaptor
	130243	10	Rubber Tie Down

VIBRATORY HAMMER 223

1 1/2" QUICK DISCONNECTS



VIBRATORY HAMMER 223

1 1/2" QUICK DISCONNECTS

Item	P/N	Qty.	Description
1	110690	1	Male Coupler Housing
2	850067/3	1	Insert 3
3	790139	2	O-ring (#216)
4	790140	2	Spring
5	850067/1	2	Insert 1
6	790155	2	Retaining Ring (45 x 1.75 for bore)
7	110955	1	Dust Cap
8	110692/1	1	Female Coupler Housing
9	110692/2	1	Coupler Nut
10	850067/2	1	Insert 2
11	790154	1	Retaining Ring (70 x 2.5 for shaft)
12	110829	2	O-ring (#230)
13	110980	2	Back-up Ring (#230)
14	110957	1	Dust Plug

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VIBRATORY HAMMER 223

MISCELLANEOUS ACCESSORIES

1) 223 Hose Group Kit - INTERNAL

Item	P/N	Qty.	Description
7	790417	1	Return Hose
8	790416	1	Pressure Hose
9	790395	1	Drain Hose
10	790649	1	Open Clamp Hose
11	790650	1	Close Clamp Hose
51	130173	1	Lubrication Hose

2) Cylinder Seal Kit Re-order Chart

810225	Seal Kit Univ.Clamp	(Refer to p. 223-13)
810277	Seal Kit 80T Caisson Clamp	(Refer to p. 223-19)

VIBRATORY HAMMER 223

RECOMMENDED SPARE PARTS

223 Vibratory Hammer Assembly

Item	P/N	Qty.	Description
37	100037	2	O-Ring (#222)
40	100097	1	O-Ring (#214)
56	130023	1	Elastomer

223 Vibration Case Assembly

Item	P/N	Qty.	Description
5	110195	1	Motor O-Ring
12	110197	1	O-Ring (#159)
21	790424	4	O-Ring (#275)
23	100185	1	Sight Gauge
30	100037	2	O-Ring

Hose Assemblies - Interconnecting

Item	P/N	Qty.	Description
5	100233	1	Hose 125R10P020P020L60000
9	110141	1	Hose 150R11P024P024L60000
13	100241	1	Hose 075R02P012P012L62000
17	100247	2	Hose 038R02P006P006L62000

223 Universal Clamp Assembly

Item	P/N	Qty.	Description
15	100203	2	Adaptor
16	100217	1	Univ. Jaw-Moveable (optional)
17	100221	1	Double Sheet Jaw - Moveable
18	100225	2	H-Beam Jaw - Moveable (opt.)
19	100214	1	Jaw Bolt - Moveable
20	110515	1	Univ. Jaw - Fixed (optional)
21	110419	1	Double Sheet Jaw - Fixed
22	110541	1	H-Beam Jaw - Fixed (optional)
28	100212	2	SHCS 1" - 8 x 4"
	810225	1	Seal Kit