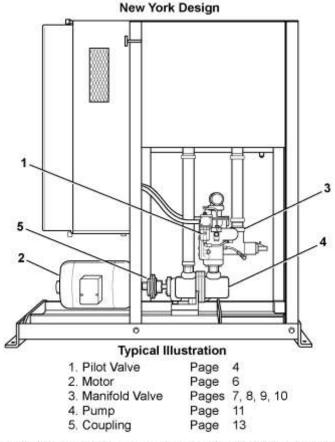
Hydraulic Elevator with Type 7A Hydraulic Machine

Spare Parts Leaflet C-1028

May 18, 2022 / Page 1 of 14

OBSOLESCENCE NOTICE

The product covered in this SPL has been designated as obsolete and is no longer supported. See TIP 32.2-1, Obsolete Components, for potential upgrade. Replacement lower level parts listed within and unique to this design are not being restocked when depleted. Some of these parts, depending on availability and other factors, may be quoted through Customer Service, but most will have extended lead times and increased cost due to low volume production.



NOTE: For lubrication and hydraulic oil, see Lubrication Chart, Form #2422H.

Order Forms O-351A, O-352D, O-352E & O-352F



This document does not contain any technical data subject to EAR or ITAR

SERVICE ENGINEERING
Otis Elevator Company
Bloomfield, Connecticut USA

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History

Leaflet Description

This leaflet provides information for replacement parts for the New York Design hydraulic elevator, also known as plunger electric elevator, with type 7A machine, direct driven pump and manifold valve.

Leaflet Revisions

Date Revised	Subject Matter Expert	Reason for Revision
February 1, 1963	Works Service Dept., Yonkers, NY	New SPL
June 1, 1997	Technical Publications Dept., Otis Service Center	Update parts numbers
July 31, 2003	Troy Chicoine	Change pump part number, p. 9
May 18, 2022	Brian Regan	Updated document template and obsolescence info

Related Drawings

Drawing No.	Title	Drawing No.	Title

Related Documents

Document ID	Title
Order Form O-351A	
Order Form O-352D	
Order Form O-352E	
Order Form O-352F	

Subject Matter Expert

Name	Department
Brian Regan	OSC Service Engineering

About Spare Parts Leaflets...

This document lists the lowest replaceable units (LRUs) for the standard version of the product. The LRUs are chosen by a team of Otis associates representing engineering and manufacturing.

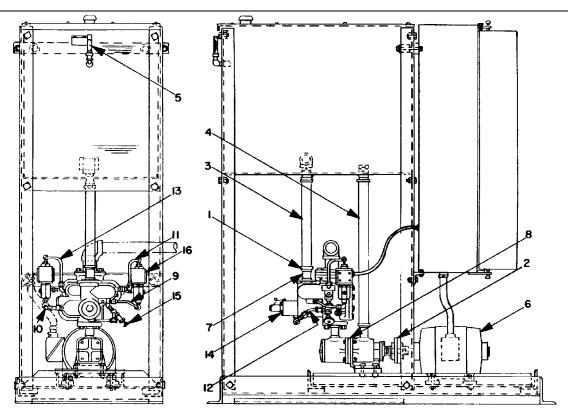
While goal of this document is to make parts identification as easy as possible, the document cannot be all-inclusive. Elevator and escalator contracts classified as "special" or "custom" are not addressed here. For such contracts, please refer to specified information, the contract folder, TIPs, Field Education Articles, Construction Letters, etc. for further information.

If you have any suggestions about this document, please contact the subject matter expert listed on this page.

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Type 7A Hydraulic Machine

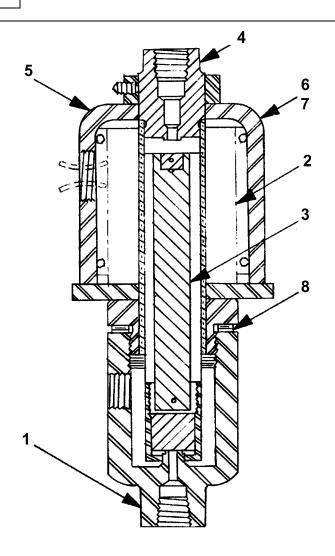
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Order Forms O-352D and O-352F ML 2084E3, 6962D2, and 2223A6, 7, 12, 13, 20, 21

	W/O VINTAGE	
REF. No.	PART No.	DESCRIPTION
	254D1	Demonst Oil Filter (for Oil Tenls)
	B254D1	Bonnet, Oil Filter (for Oil Tank)
1	336DY1	Clamp, Hose
2		Coupling (for details, see Page 13)
3	134A7	Hose, 2-1/4 in. I.D., 16-1/2 in. Long (for Tank to Valve)
4	134A7	Hose, 2-1/4 in. I.D., 16-1/2 in. Long (for Tank to Pump)
4	134A4	Hose, 2-1/4 in. I.D., 27-1/8 in. Long (for Tank to Pump)
5	269AJ1	Indicator, Oil
5	269AW1	indicator, Oil
6		Motor, Single Speed (for details, see Page 6)
7	441AH3	Pipe, Half Nipple, 2 in. std., 6 in. Long (for Hose p/n 134A7)
	441AH8	Pipe, Half Nipple, 2 in. std., 16-5/8 in. Long (for Hose p/n 134A7)
8		Pump (for details, see Page 11)
9	136AH2	Tubing, with Fittings
10	136AJ2	Tubing, with Fittings
11	136AJ4	Tubing, with Fittings
12	136AK2	Tubing, with Fittings
13	136AL2	Tubing, with Fittings
14		Valve, 2 in. Manifold (for details, see Pages 7 through 10)
15		Valve, Manual Lowering, Angle, Screwed, 400, bronze
16	6941A1	Valve, Pilot (for details, see Page 4)

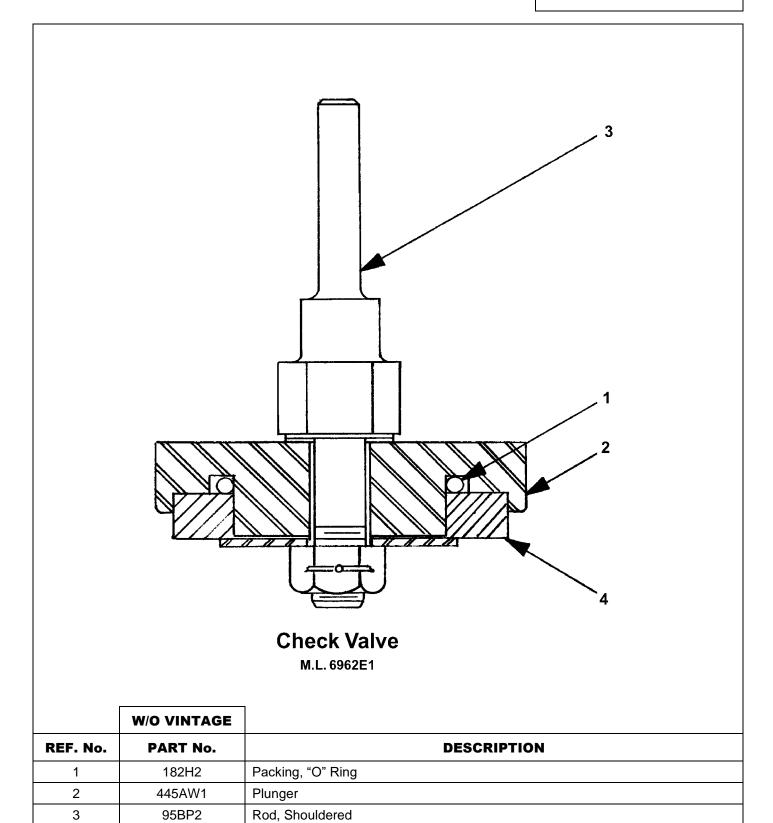
6941A Pilot Valve



Pilot Valve

for Leveling and Lowering Valves M.L. 6941A1

	W/O VINTAGE	
REF. No.	PART No.	DESCRIPTION
1	330BF1	Case, Pilot Valve
2	222CV6	Coil, Magnet, 7300 Turns, No. 31 Wire
3	400BJ2	Core, Moveable
4	400BK1	Core, Stationary
5	374JG1	Frame, Magnet
6	386JR10	Plate, 2-3/8 in. Wide x 2-5/8 in. Long x 1/16 in. Thick
7	96H138	Rod, 1/8 in. Diameter, 3-1/4 in. Long (for Plates)
8	255CJ1	Shim, Laminum, (3) .003 in. Laminations, Brass

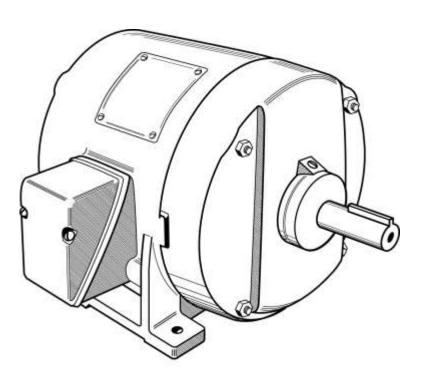


Washer, Valve Disc

129BL2

4

Single Speed Motors

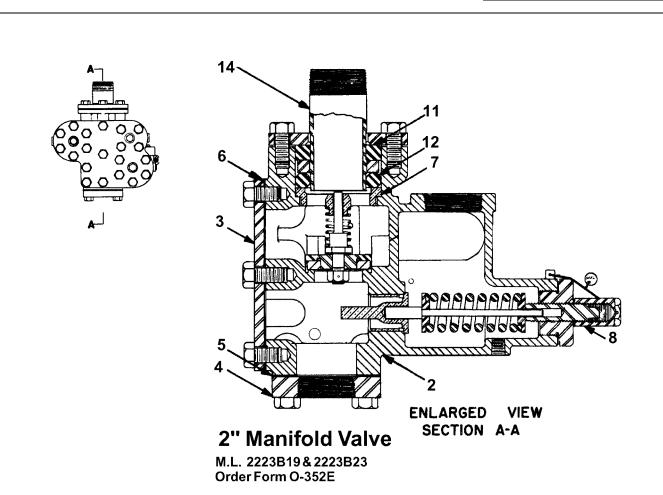


Single Speed Motors

3 Phase, 60 Cycles, A.C., 3600 RPM

W/O VIN	ITAGE
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PART No.	VOLTS	NAME PLATE H.P.	FRAME No.
A6333T1	208	10	254U
A6333T2	220/440 (specify voltage)	10	254U
A6333T3	550	10	254U
A6333W1	208	15	256U
A6333W2	220/440 (specify voltage)	15	256U
A6333W3	550	15	256U
A6333Y1	208	20	284U
A6333Y2	220/440 (specify voltage)	20	284U
A6333Y3	550	20	284U

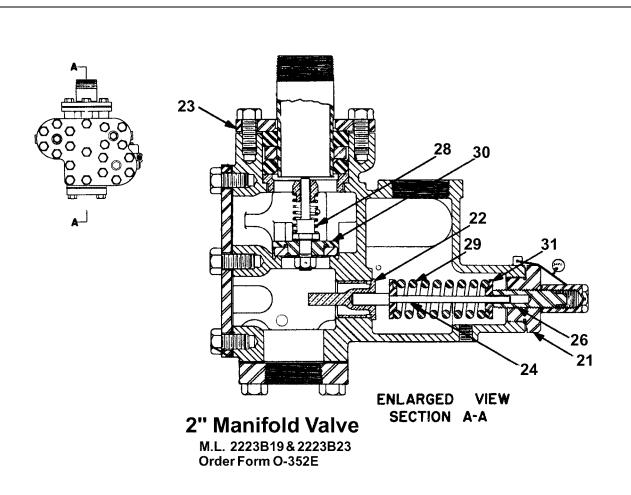


	W/O VINTAGE	
REF. No.	PART No.	DESCRIPTION
2		Case, Valve (If necessary to order, give elevator sales number and size of manifold valve).
3	346AAB1	Cover, Valve
4	441AB3	Fitting, Flange, 1-1/2 in. Pipe Tap
5	376AA2	Gasket, 4-1/2 in. square x 1/16 in. Thick, Vellumoid (for Fitting)
6	376DD1	Gasket, Vellumoid (for Cover)
7	385GS1	Guide, Check Valve
8	72BY1	Nut, Cap, 1 in. Hex, 3/4 in. Tap (for screw Ref. 26)
11	182G2	Packing, Ring, 2-5/16 in. I.D., 3-9/16 in. O.D., 5/8 in. Thick, Neoprene
12	182F2	Packing, Ring, 5/8 in. Diameter, 9 in. Long (form at assembly)
14	377BE2	Pipe, 2 in. std., 5 in. Long

(Continued on next page)

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2223B "2" Manifold Valve

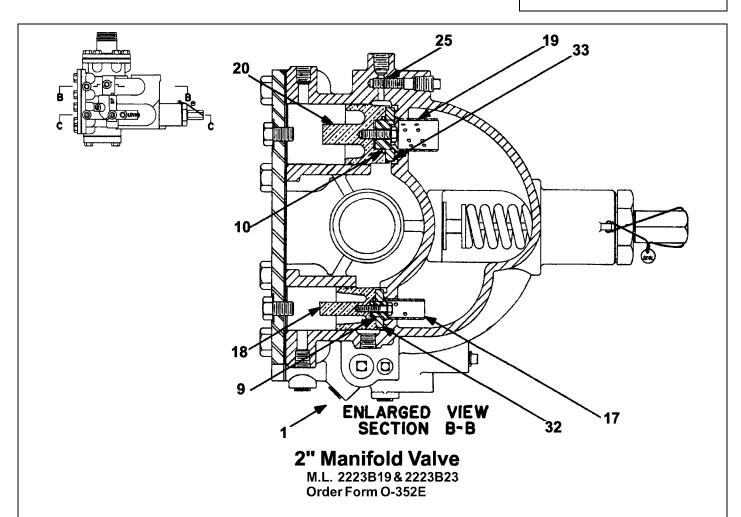


	W/O VINTAGE	
REF. No.	PART No.	DESCRIPTION
21	441AR1	Plug, 2-3/8 in. Hex (for Case)
22	445AV1	Plunger, Relief Valve
23	172JG1	Ring, Clamp (for Case)
24	96BE2	Rod, Relief Valve Piston, 5/16 in. Diameter, 6-5/8 in. Long
26	124BK2	Screw, 3/4 in. Thread, 3-1/8 in. Long (for Plug)
28	90VB7	Spring, Compression, 27/32 in. I.D., 2-3/8 in. Long, 5-3/4 Active Turns (for Check Valve)
29	90BD4	Spring, Compression, 1-5/8 in. O.D., 4-1/2 in. Long, 7-1/2 Active Turns (for Relief Valve)
30	6962E1	Check Valve (for details, see Page 5)
31	133G6	Washer, Spring Seat

(Continued on next page)

2223B "2" Manifold Valve

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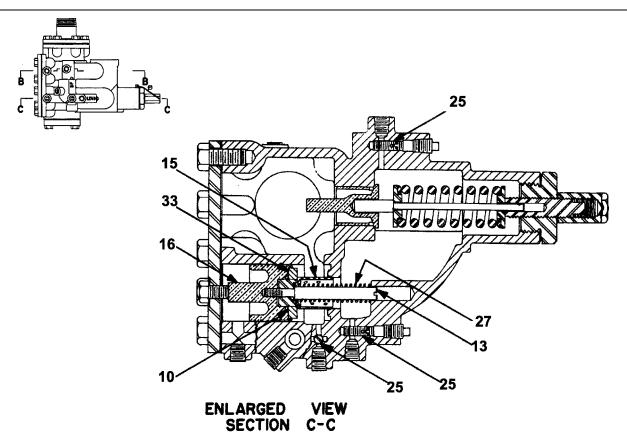
	W/O VINTAGE			
REF. No.	PART No.	DESCRIPTION		
1*	295B3	Ball, 5/8 in. Steel		
9	182H4	Packing, "O" Ring, 9/16 in. I.D., 3/32 in. Thick, Rubber (for Piston Ref. 18)		
10	182H1	Packing, "O" Ring, 1 in. I.D., 1/8 in. Thick, Rubber (for Piston Ref. 20)		
17	♦	Piston (Metering Shell), Leveling Valve (for Piston Ref. 18)		
18	442AE1	Piston, Leveling Valve		
19	\Diamond	Piston (Metering Shell), Lowering Valve (for Piston Ref. 20)		
20	442P1	Piston, Lowering Valve		
25	124BL1	Screw, Headless, 3/8 in. Thread, 3/4 in. Long		
32	129BL4	Washer, Valve Disc, 37/64 in. I.D., 1-13/32 in. O.D., 9/32 in. Thick, Composition		
33	129BL1	Washer, Valve Disc, 1-1/16 in. I.D., 2 in. O.D., 11/32 in. Thick, Composition		

^{*} Arrow indicates location. The part itself is not showing in the illustration.

When ordering pistons (metering shells), give the elevator sales number and state for which valve the piston is required.

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2223B "2" Manifold Valve



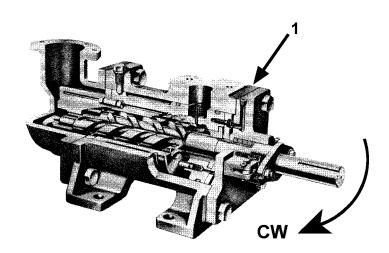
2" Manifold Valve

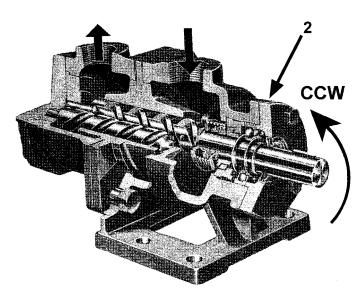
M.L. 2223B19 & 2223B23 Order Form O-352E

	W/O VINTAGE	
REF. No.	PART No.	DESCRIPTION
10	182H1	Packing, "O" Ring, 1 in. I.D., 1/8 in. Thick, Rubber (for Piston Ref. 16)
13	77NF3	Pin, By-pass Valve, 1/2 in. Diameter x 5-3/4 in. Long
15	♦	Piston (Metering Shell), By-Pass Valve (for Piston # Ref. 16)
16	442P1	Piston, By-Pass Valve
25	124BL1	Screw, Headless, 3/8 in. Thread, 3/4 in. Long
27	90XB3	Spring, Compression, 9/16 in. I.D., 4-5/8 in. Long, 20 Active Turns (for By-pass Valve)
33	129BL1	Washer, Valve Disc, 1-1/16 in. I.D., 2 in. O.D.,11/32 in. Thick, Composition

When ordering Pistons (Metering Shells), give the elevator sales number and state for which valve the piston is required.

Pump C-1028





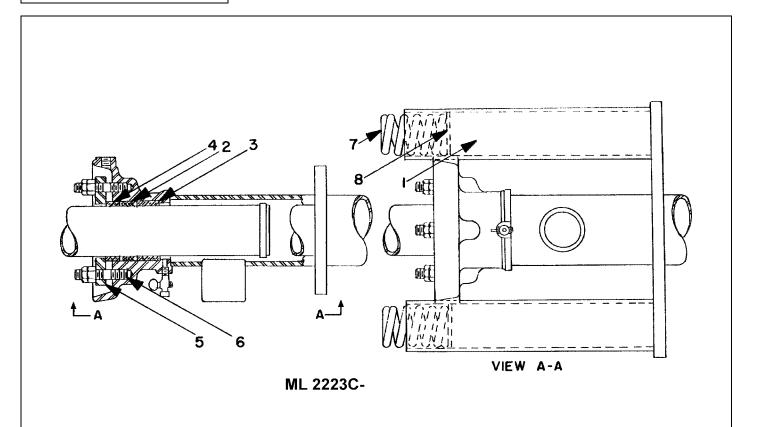
W/O VINTAGE		
PART No.	DESCRIPTION	
6962T1	Pump, DeLaval IMO, "D" Design (3DB-187), 81 G.P.M., 3600 R.P.M.	
AAA27076AX4	Kit, Minor Repair for IMO Pump, 3DB-187 (Ref. 1)	
AAA27076AX5	Kit, Minor Repair for IMO Pump, A3DB-187 (Ref. 1)	
AAA27076AX6	Kit, Minor Repair, for IMO Pump, G3DB-187 (Ref. 1)	
**	Pump, DeLaval IMO, Series A313B -187, 74 G.P.M., 3600 R.P.M.	
	PART No. 6962T1 AAA27076AX4 AAA27076AX5 AAA27076AX6	

NOTE: * Part not shown.

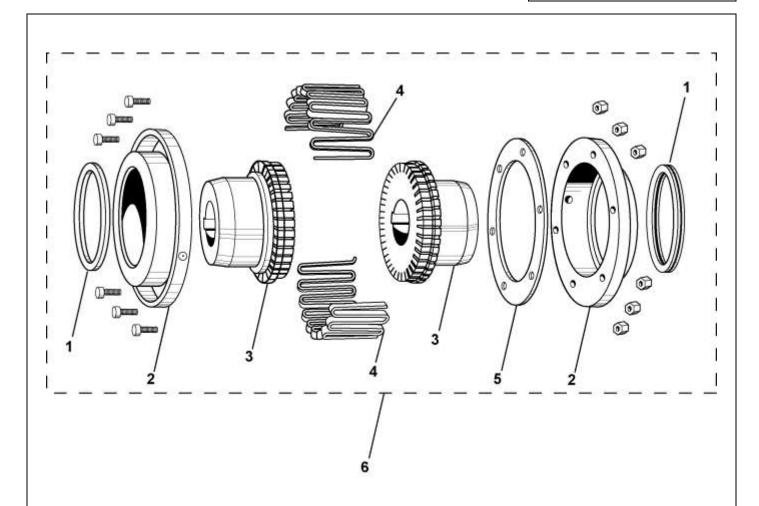
^{**} When ordering, give elevator sales number.

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Cylinder Head Packing & Buffer



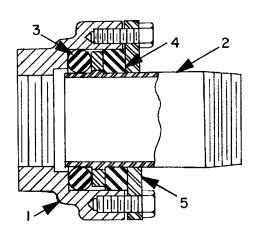
		_		
	W/O VINTAGE			
REF. No.	PART No.	DESCRIPTION		
1	310C10	Block		
2	182R_	Disogrin Packing		
3	172GK_	Bottom Ring		
4	172GK_	Top Ring	For Cylinder Head Packing Replacement Parts, See SPL 03-6942Y.	
5	172GJ_	Clamp Ring	000 01 2 00 004211	
6	96H_	Rod		
7	90GD6	Spring		
8	127XA17	Washer		



	W/O VINTAGE			
REF. No.	PART No.	DESCRIPTION		
1		Neoprene Seals		
2		Cover Halves		
3		Hubs		
4		Gridmember		
5		Gasket		
	215Y10	Type 6F, 5 in. Dia., 1-1/8 in. Bore-Pump Side, 1-1/8 in. Bore-Motor Side (for 10 HP motor)		
6	215Y14	Type 6F, 5 in. Dia., 1-1/8 in. Bore-Pump Side, 1-3/8 in. Bore-Motor Side (for 10 HP motor)		
6	215Y13	Type 7F, 5-5/8 in. Dia., 1-1/8 in. Bore-Pump Side, 1-3/8 in. Bore-Motor Side (for 15 HP motor)		
	215Y12	Type 7F, 5-5/8 in. Dia., 1-1/8 in. Bore-Pump Side, 1-5/8 in. Bore-Motor Side (for 20 HP motor)		

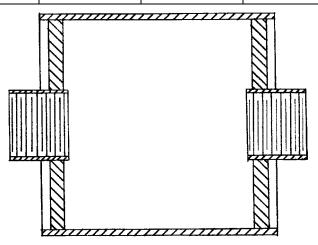
NOTE: When ordering renewal parts, be sure to give the coupling size stamped on cover and coupling hub. Also give the sales number, machine type, and motor horsepower.

Isoline Unit & Hydraulic Muffler



Isoline Unit

Part No.	Pipe Line Size (in.)	Ref. 1 Case	Ref. 2 Pipe	Ref. 3 Ring Pkg.	Ref. 4 Ring Pkg.	Ref. 5 Clamp Ring
6944A1	2	330CC1	377BE2	182F2	182G2	172GY1
6944A2	3	330CD1	377BE3	182F3	182G3	172GY2



Hydraulic Muffler

12" O.D., 13" long, w/ Couplings Complete P/N 441AJ1