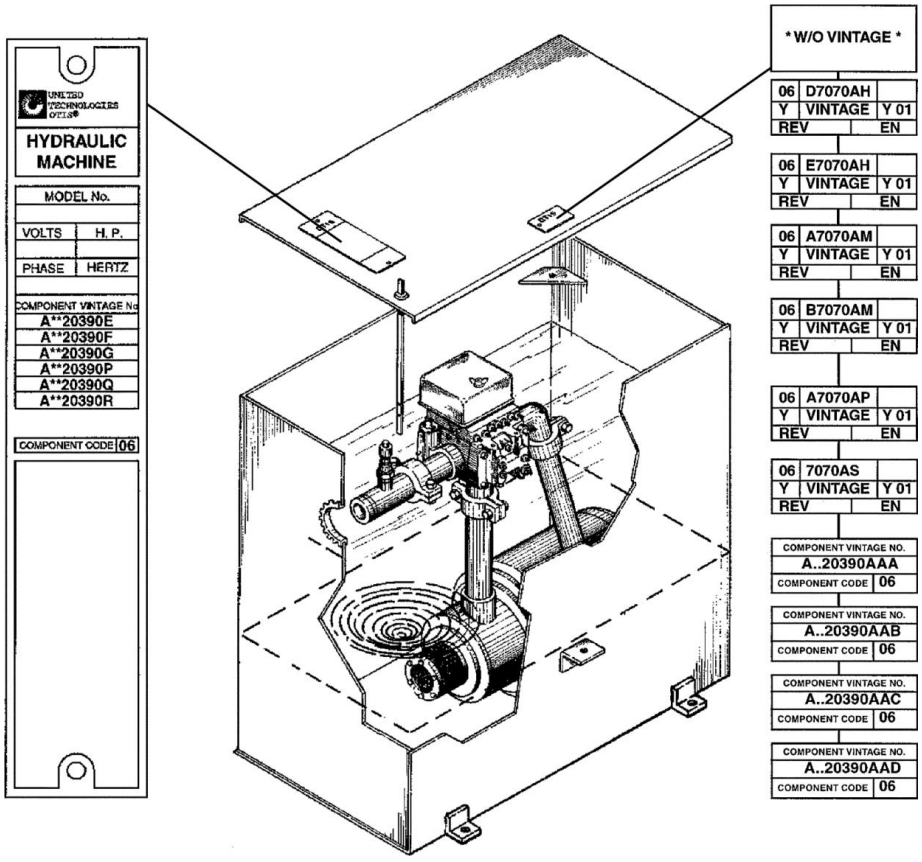
Hydraulic Machines with Submersible Pumps & Motors

Spare Parts Leaflet

06-AAA20390E



For A**20390AA parts, see SPL 06-AAA20390AA

OTIS

SERVICE ENGINEERING
Otis Elevator Company
Bloomfield, Connecticut USA

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History

Leaflet Description

This leaflet provides information for replacement parts of all Otis submersible pump and motor hydraulic machines listed on the cover page. The leaflets for each of these machines are now consolidated into a single comprehensive document. See page 3 for a list of the superseded leaflets.

Take special care when ordering pumps, motors, and valves from this leaflet. Over the years, both Otis and the component manufacturers have made many changes. As a result, specifying the correct replacement can sometimes become difficult due to differences in mounting patterns, shaft sizes, and footprints. Many notes and instructions have been added to provide guidance in these areas. In particular, when ordering a pump and/or motor, if there is any question as to the validity of the part number of either component, refer to the motor and pump ordering procedure on pages 7–8.

Another addition is a list of available hydraulic pipes, couplings, and bushings (pages 18–19 Hydraulic Piping Sundries). The connection size of many spare parts has also changed over time, and the fittings on page 16 will help to adapt the replacement parts to existing equipment.

Leaflet Revisions

Date Revised	Subject Matter Expert	Reason for Revision
July 1991	- - -	New leaflet: 06-A**20390E, F, G
February 1994	- - -	Update parts
June 1998	Troy Chicoine	Add history page; consolidate hydraulic machine leaflets; correct and update information; change leaflet number
January 1, 2000	Troy Chicoine	Change leaflet number, update parts on p. 8
August 1, 2000	Troy Chicoine	Add part number on p. 5, ref. 9
July 15, 2002	Troy Chicoine	Add inlet screen on pp.10 & 12; update parts on pp. 6, 7, 17
July 15, 2004	Troy Chicoine	Update parts information on pages 6, 7, 16, and 17.
July 15, 2005	Troy Chicoine	Added AAA20390AA vintage information.
October 5, 2011	Troy Chicoine	Added AAE20390R vintage information.
April 25, 2012	Troy Chicoine	Corrected p/n 271AS9 description on p. 19
May 8, 2013	Troy Chicoine	Removed AAA20390AA vintage information Removed Warranty page See SPL 06-AAA20390AA for these parts
March 30, 2016	Troy Chicoine	Added 120 Start/Hr motors, 100 GPM pump and miscellaneous piping components; Updated document template
September 14, 2022	Juan Murillo	Updated to include OBSOLESCENCE note on cover
October 5, 2022	Juan Murillo	Removed OBSOLESCENCE notice

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Related Drawings

Drawing No.	Title	Drawing No.	Title
AA20390E	Hydraulic Machine (80 Gallon Capacity)	AAE20390R	Assembly & Arrangement: Hydraulic Machine (80 Gallon Capacity)
ABA20390F	Hydraulic Machine (140 Gallon Capacity)	E7070AH	Assembly & Arrangement: Hydro Machine
ABA20390G	Hydraulic Machine (190 Gallon Capacity)	B7070AM	Assembly & Arrangement: Hydraulic Machine w/Extra Oil Capacity Tank
AAD20390P	Assembly & Arrangement: Hydraulic Machine (190 Gallon Capacity)	7070AS	Assembly & Arrangement: Hydro Machine
AAD20390Q	Assembly & Arrangement: Hydraulic Machine (140 Gallon Capacity)	A7070AP	Assembly & Arrangement: Hydro Machine (2 Stop)

Superseded Leaflets

Document ID	Title
SPL 06-7070AH	Hydraulic Machine w/Submersible Pump & Motor
SPL 06-7070AM	Hydraulic Machine w/Submersible Pump & Motor
SPL 06-7070AP	LRV4L Two-Stop Holeless
SPL 06-7070AS	Hydraulic Machine w/Submersible Pump & Motor
SPL 06-A..20390AAA	LRV4L Two-Stop Holeless
SPL 06-A..20390AAB	Hydraulic Machine w/Submersible Pump & Motor
SPL 06-A..20390AAC	Hydraulic Machine w/Submersible Pump & Motor
SPL 06-A..20390AAD	Hydraulic Machine w/Submersible Pump & Motor

Subject Matter Expert

Name	Department
Troy Chicoine	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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Related Documents

Related Documents

Document ID	Title
OMM 6.3-A	Hydraulic Elevator Maintenance
OMM 17.0	Safeties
SWP 17.0.1-A	Safety Tests
TIP 6.3.1-9	Hydraulic Check Chart For Improving Motor & Contactor Longevity
TIP 6.3.1-10	Overheating Checklist For Hydraulic Elevators
TIP 6.3.2-4	Submersible Thermal Contact
TIP 6.3.2-5	Minor Repair Kits & Spare Parts for Hydraulic Pumps
TIP 6.3.3-12	Maxton UC4M Valve; Adjustment of Up-Leveling Regulator
TIP 6.3.3-13	UC4M Hydraulic Valve Configurations
TIP 6.3.3-14	Hydraulic Valve Gauge Kit for Canadian B44 Code
TIP 6.3.3-15	Excessive Releveling of Hydraulic Elevators
TIP 6.3.4-1	Use of Victaulic Connectors in Hydraulic Elevator Systems
TIP 6.3.4-3	Piping Of To-From Lines Must Comply With Rule 303 ANSI/ASME A17.1c-1986
TIP 6.3.4-4	Must Removal of All Dielectric Couplings From The Hydraulic To-From Line That Do Not Comply With Code
TIP 6.3.4-5	Minimum Pipe Size Chart For Installing Hydraulic Elevators
TIP 6.3.4-6	Introduction of an Improved Hydraulic Muffler (Silencer)

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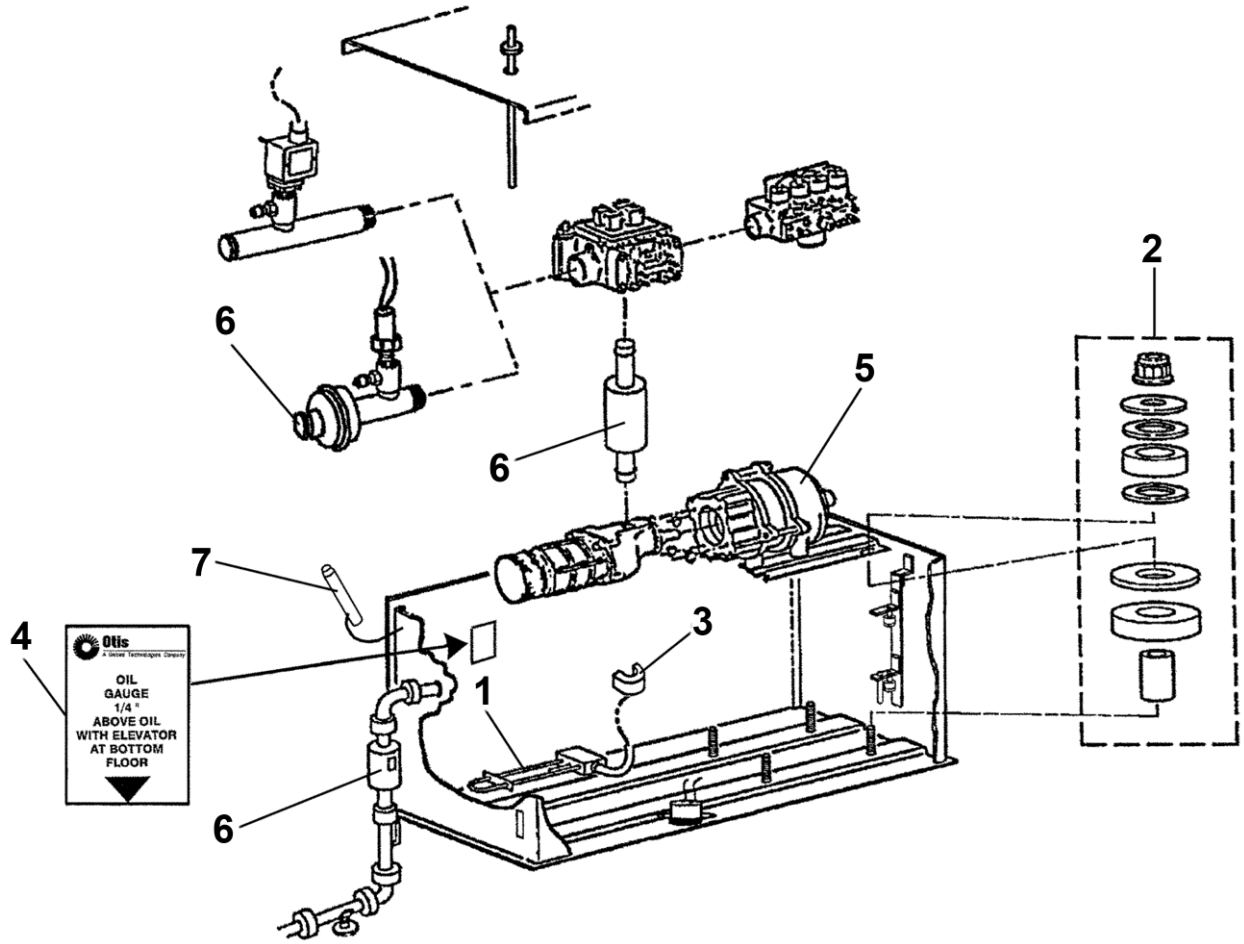

	AAD20390P/Q/R AAE20390R		
REF. No.	**PART No.**	**DESCRIPTION**	**VINTAGES**
1	~~615C1~~ ~~615C2~~ 615C3	Heater	All Vintages
2	~~AAA07070AAA001~~ AAA07070AAA002	Kit, Sound Isolation Block (view enlarged)	All Vintages All Vintages
3	MT-123003	Magnet, Horseshoe Power	All Vintages
4	AAA102ACM1	Magnet, Oil Level Label, TIP 12.2-3	All Vintages
5	- - -	Motor, Type 6333, p. 11, 12, 14, & 15	All Vintages
6	- - -	Muffler, Type 726, p. 18	All Vintages
7	AAA20390T1	Pin, Quick Release	AAC20390P/Q/R
*	- - -	Pipe, Couplings & Adapters, p. 20–21	All Vintages
*	MAXTBV1-4	Valve, Ball, 1/4 in.	AAD20390P/Q AAE20390R

***** Parts not shown.

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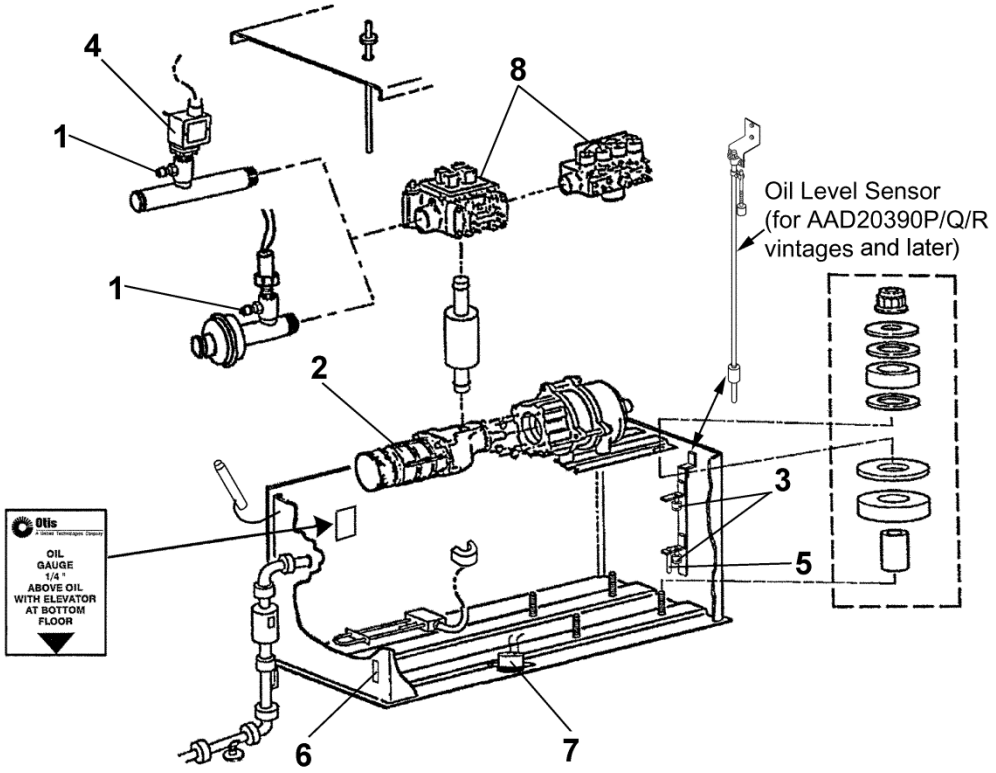
Hydraulic Machine



REF. No.	ALL PRIOR / PART No.	AAD20390P/Q/R AAE20390R / PART No.	DESCRIPTION	
*	- - -	AAA102AHE2	Label, RLOS Adjustment Procedure	
*	334AS2		Mount, Isolation (Controller)	
1	377DR2		Plug, Two-Way Shut-Off, 0.25 in., Hansen # 2-K16	
2	- - -		Pump, Type 6962, p. 10 & 13	
3	~~177BH3~~ 177BH4	AAA20390X1	Switch, Oil Level (see NOTE 1)	
4	A177BM1		Switch, Pressure, 0.5 in. NPT Male Pressure Port	
	A177BM2		Switch, Pressure, 0.25 in. NPT Male Pressure Port	
	~~AAA20300L1~~ AAA20300L2		Switch, Pressure, Valve Mounted, 1/8 NPTF	
5	~~AAA659E1~~	AAA20390W1	Switch, Temperature (190 gallon tank)	(see NOTE 2)
	~~AAA659E2~~	AAA20390W2	Switch, Temperature (140 gallon tank)	
	AAA659E3	AAA20390W3	Switch, Temperature (80 gallon tank)	
6	AAA298UQ1		Temperature, Strip	
7	AAA739H1		Thermal Contact, Submersible, TIP 6.3.2-4	
*	- - -		Valve, Rupture, Type AAA271DH, p. 19	
8	- - -		Valve, Type 271, p. 16, 17	

***** Parts not shown.

NOTE 1: 177BH4 is used for both LOS & RLOS signals, A*20390X1 is used only for RLOS signal.

NOTE 2: A*20390W_ temperature switches also include oil level switch for LOS signal.

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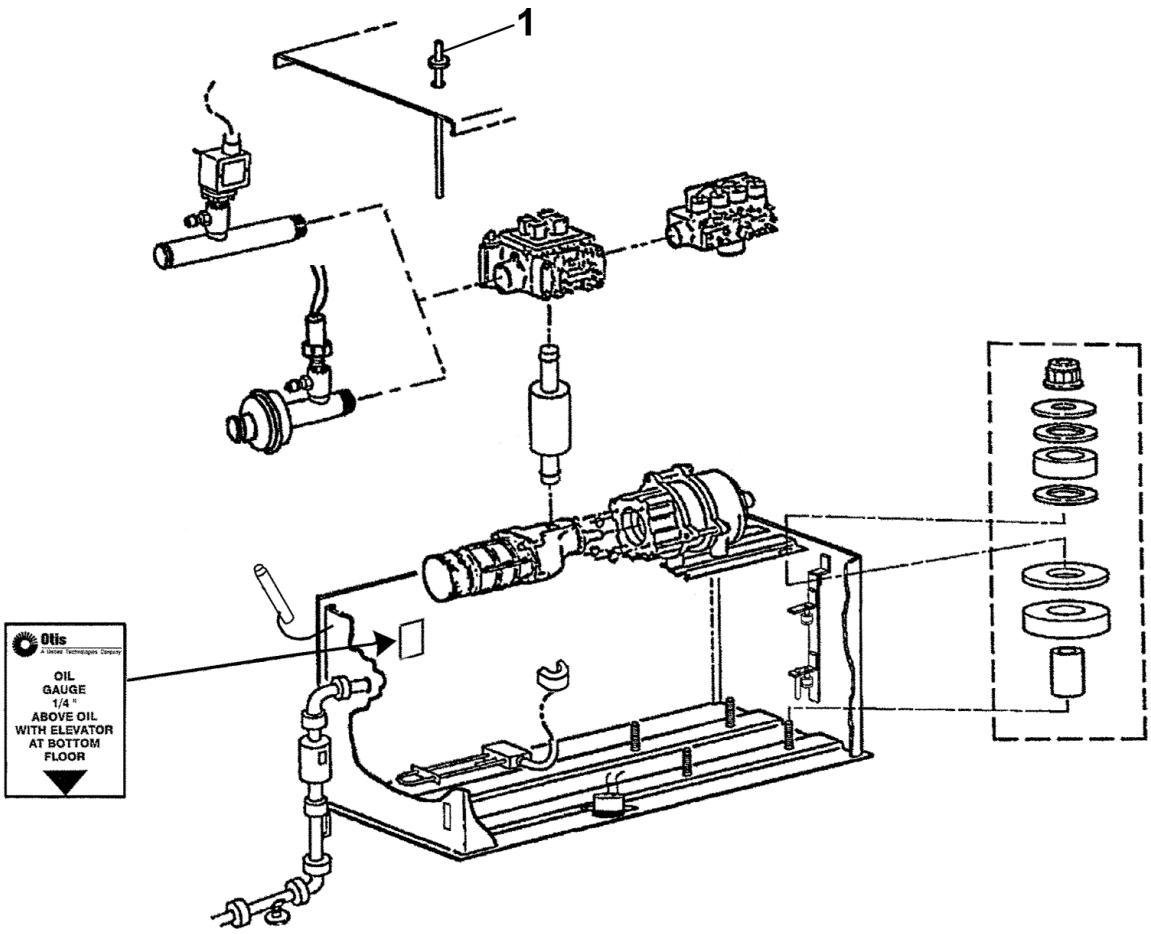

REF. No.	PART No.	DESCRIPTION	TANK SIZE (Gal.)	VINTAGES
1	269CA1	Dipstick, 15 in. L	80	All Vintages prior to AAC20390P/Q/R
	269CA2	Dipstick, 17 in. L	140, 190	
	AAA269BE1	Dipstick, Side Mount	80	AAC / AAD20390R
	AAA269BH8	Dipstick, Side Mount, Adjustable Position	80	AAE20390R
	AAA269BE2	Dipstick, Side Mount	140	AAC20390Q and on
	AAA269BE3	Dipstick, Side Mount	190	AAC20390P and on

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Submersible Hydraulic Motor & Pump Ordering Procedure

This section provides the necessary information for ordering an appropriate replacement motor and/or pump.

Normally, the motor and/or pump part numbers are read directly from the manufacturers' tags, which should be located on the tank cover and on the components. Refer to these numbers on the motor and pump pages of this leaflet to order the proper part.

If the component numbers cannot be found, or do not correspond to any numbers in this leaflet, there are two options available: if possible, replace only the failed component (motor or pump), or replace both the motor and the pump. Existing motors and new pumps are not always compatible.

Detailed below is the information required for each of these options, along with instructions on where and how to find that information.

			Replacement Options		
Step No.	**Data Item Needed**		**Motor Only**	**Pump Only**	**Motor & Pump**
1	Motor	Voltage	✓		✓
2		Horsepower	✓		✓
3		Shaft Socket Ø	✓		
4		Motor/Pump Mounting Bolt Hole Circle Ø	✓		
5		Tank Mounting Stud Pattern	✓		✓
6	Pump	Flow Capacity		✓	✓
7		Shaft Ø		✓	
4		Pump/Motor Mounting Bolt Hole Circle Ø		✓	

1. **Motor Voltage**. Read or measure in the machine room from the main breaker or disconnect feeder.
2. **Motor Horsepower**. Read off the motor tag after the hydraulic oil has been removed. It can also be determined from the machine size, if known ("Explanation of Machine Size Code" on page 8).
3. **Motor Shaft Socket Diameter**. Measure the diameter directly off the motor shaft socket, not including the shaft key height.
4. **Motor/Pump Mounting Bolt Circle Diameter**. This measurement can be taken from either the motor or the pump. Measure the diameter of the bolt hole circle used to connect the motor to the pump.
5. **Motor/Tank Mounting Stud Pattern**. This is the length and width between the mounting studs (used to mount the motor) in the bottom of the tank.
6. **Flow Capacity**. It can be determined in three ways: (1) Read off the pump tag after the hydraulic oil has been removed; (2) Determine from the machine size, if known ("Explanation of Machine Size Code" on page 8); (3) Determine from the plunger diameter and the rated speed per the following table.

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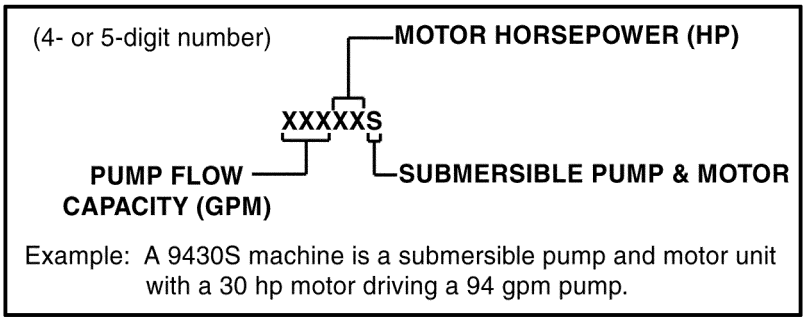
Plunger Types		Rated Speed		
		100 FPM	115–125 FPM	150 FPM
Holeless (2 Plungers)				
Diameter	2-3/4 in. (2-7/8 in.)	56 GPM	75 GPM	—
	4 in.	120 GPM	150 GPM	—
Holed (1 Plunger)				
Diameter	4 in.	56 GPM	75 GPM	94 GPM
	4-1/2 in.	75 GPM	94 GPM	120 GPM
	5-1/2 in.	120 GPM	150 GPM	170 GPM
	6-1/2 in.	170 GPM	200 GPM	260 GPM

7. **Pump Shaft Diameter**. Measure directly off the pump shaft, not including the shaft key height. With this information, the appropriate motor and/or pump can be found on the following pages.

Explanation of Machine Size Code



Example: A 9430S machine is a submersible pump and motor unit with a 30 hp motor driving a 94 gpm pump.

Example:

An LRS has lost its pump. It has no tags on the tank. The voltage reads 208V on the main breaker panel. The motor tag reads 40 hp. The elevator is rated for 125 FPM and the plunger is measured as 6.5 inches. Reading from the table above, this is a 200 GPM pump. The machine records are available and specify a 20040S machine, confirming a submersible 40 hp motor and a 200 GPM pump.

In an attempt to replace only the pump, the unit is disassembled and the pump shaft measures 1.50 inches with a 12.2 inch bolt hole pattern. The only matching pump in the leaflet is the 6962AE1, which is no longer available and has no direct replacement. Therefore, another 200 GPM pump must be used.

Because the 6962AE1 pump is not available, both motor and pump must be replaced. From the data gathered, a pump (p/n 6962AE3) is chosen. Care must be taken to select the correct motor. Based on the horsepower, voltage, shaft diameter of the pump, and the dimensions of the bolt hole circle and motor mounting studs in the tank, a motor (p/n 6333DT11) is selected from the parts leaflet. The notes on the pump and motor pages will also lead to the correct mating parts. The units will come shipped with detached tags. The tags from both of these components should then be placed on the tank. If additional pipes or bushings are required, they can also be found in this leaflet (pages 20–21).

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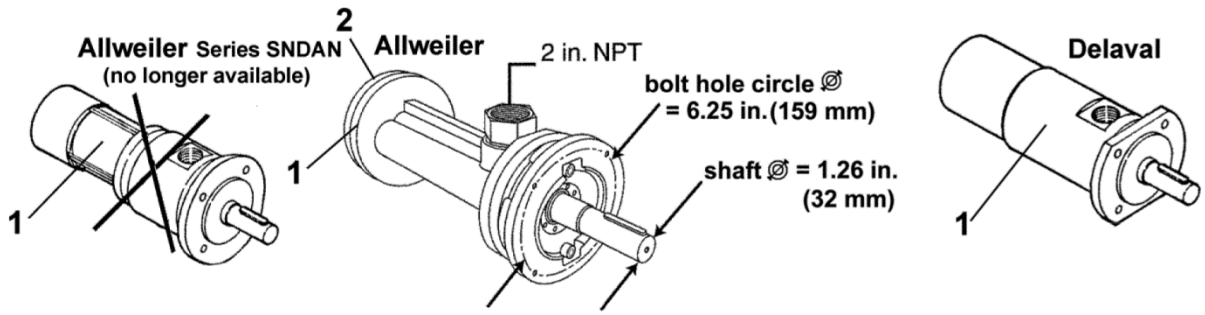
56 to 170 GPM 6962Y Submersible Pumps (used w/6333DD motors)



NOTE: For ordering information, refer to *Submersible Hydraulic Motor & Pump Ordering Procedure* on pp. 8–9.

REF. No.	MACHINE SIZE	TYPE 6962Y PUMP PART No.				DESCRIPTION	
		Delaval	Allweiler			PUMP	GPM
1	5615S–5625S	~~6962Y1~~	~~6962Y4~~	~~6962Y19~~	6962Y26	w/o Pipe	56
		- - -	(NOTE 1 & 2)		6962Y7	w/Pipe	
	6525S	- - -	- - -	- - -	6962Y28	w/o Pipe	65
	7520S–7540S	~~6962Y2~~	~~6962Y5~~	~~6962Y20~~	6962Y27	w/o Pipe	75
		- - -	(NOTE 1 & 2)		6962Y8	w/Pipe	
	9425S–9440S	~~6962Y3~~	- - -	~~6962Y6~~	6962Y21	w/o Pipe	94
		- - -	(NOTE 1 & 2)		6962Y9	w/Pipe	
	10025S–10040S	- - -	6962Y29			w/o Pipe	100
	12020S–12050S	~~6962Y10~~	- - -	~~6962Y11~~	6962Y22	w/o Pipe	120
		- - -	(NOTE 1 & 2)		6962Y12	w/Pipe	
	15025S–15050S	~~6962Y16~~	~~6962Y15~~	~~6962Y18~~	6962Y23	w/o Pipe	150
	17020S–17050S	~~6962Y14~~	~~6962Y13~~	~~6962Y17~~	6962Y24	w/o Pipe	170
		- - -	- - -		6962Y25, (NOTE 3)	w/o Pipe	
2	AAA27076AX20	- - -	6962Y19 through 28			Screen, Inlet	

NOTE 1: 6962Y7 = 6962Y26 & 377CH44; Y8 = Y27 & 377CH44; Y9 = Y21 & 377CH44; Y12 = Y22 & 377CH44.

NOTE 2: These part numbers are for replacing superseded pump units and include a length of pipe due to different pump outlet heights. They should not be ordered for replacing currently available pump units.

NOTE 3: The 6962Y25 is used **only** with the 271AL1 or 271AL2 valves. The 6962Y24 may be used with the 271AL1, 271AL2, 271AP7, or 271AP10 valves.

NOTE 4: For available fittings, couplings, and pipes, page 20–21.

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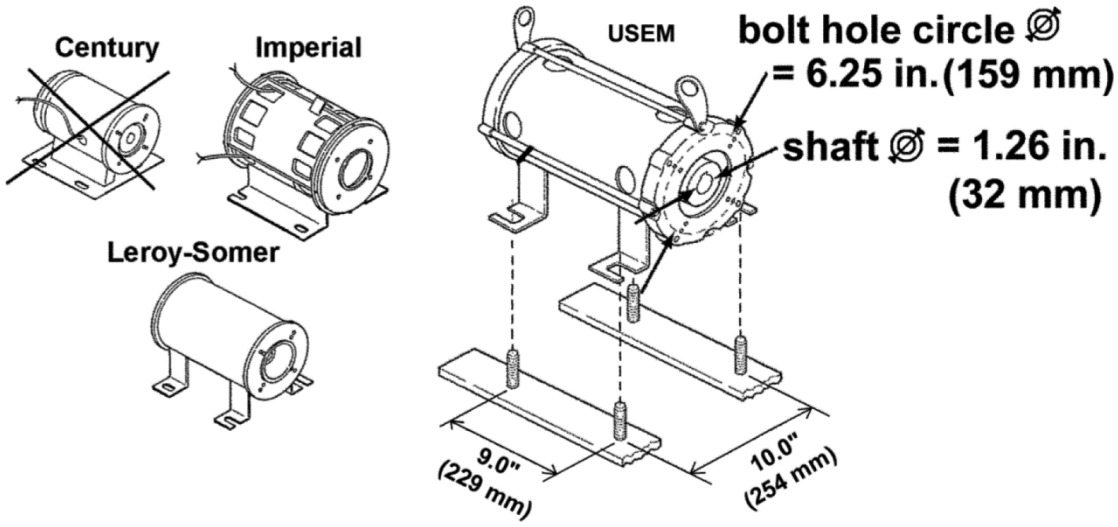
80 Start/Hr 6333DD Submersible Motors (used w/6962Y pumps)



NOTE: For ordering information, refer to *Submersible Hydraulic Motor & Pump Ordering Procedure* on pp. 8–9.

REF NO.	MACHINE SIZE	6333DD MOTOR PART NO.			MOTOR HP	STARTS PER HOUR
		MOTOR VOLTAGE				
		200 V	230/460 V	575 V		
1	5615S	6333DD1	~~6333DD2~~ (230 V)	6333DD4	15	80
			~~6333DD3~~ (460 V)			
			6333DD21			
	5620S–17020S	6333DD5	~~6333DD6~~ (230 V)	6333DD8	20	
			~~6333DD7~~ (460 V)			
			6333DD22			
	5625S–17025S	6333DD9	~~6333DD10~~ (230 V)	6333DD12	25	
			~~6333DD11~~ (460 V)			
			6333DD23			
	7530S–17030S	6333DD13	6~~333DD14~~ (230 V)	6333DD16	30	
			~~6333DD15~~ (460 V)			
			6333DD24			
	7540S–17040S	6333DD17	6333~~DD18~~ (230 V)	6333DD20	40	
			~~6333DD19~~ (460 V)			
			6333DD25			
	12050S–17050S	6333DD26	6333DD27	6333DD28	50	

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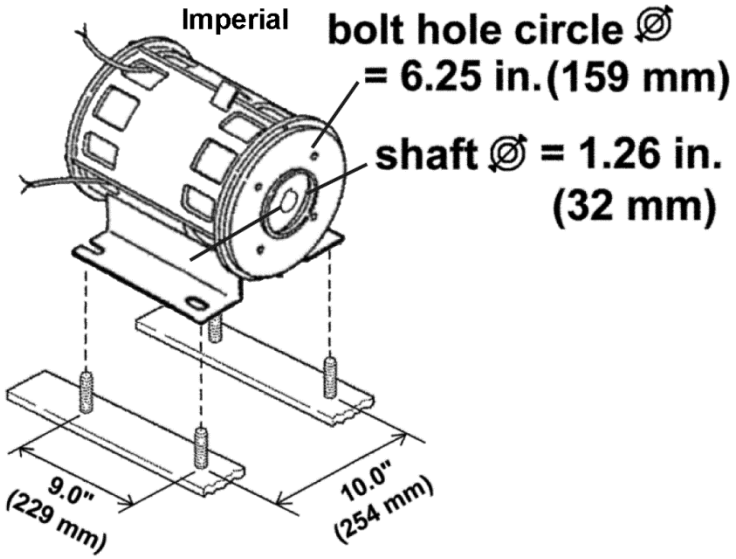
06-AAA20390E 120 Start/Hr 6333DD Submersible Motors (used w/6962Y pumps)



NOTE: For ordering information, refer to *Submersible Hydraulic Motor & Pump Ordering Procedure* on pp. 8–9.

REF NO.	MACHINE SIZE	6333DD MOTOR PART NO.			MOTOR HP	STARTS PER HOUR
		MOTOR VOLTAGE				
		200 V	230/460 V	575 V		
1	5615S	6333DD29	6333DD30	6333DD31	15	120
	5620S–17020S	6333DD32	6333DD33	6333DD34	20	
	5625S–17025S	6333DD35	6333DD36	6333DD37	25	
	7530S–17030S	6333DD38	6333DD39	6333DD40	30	
	7540S–17040S	6333DD41	6333DD42	6333DD43	40	

NOTE: 50 hp is not available at 120 starts per hour in the 6333DD frame.

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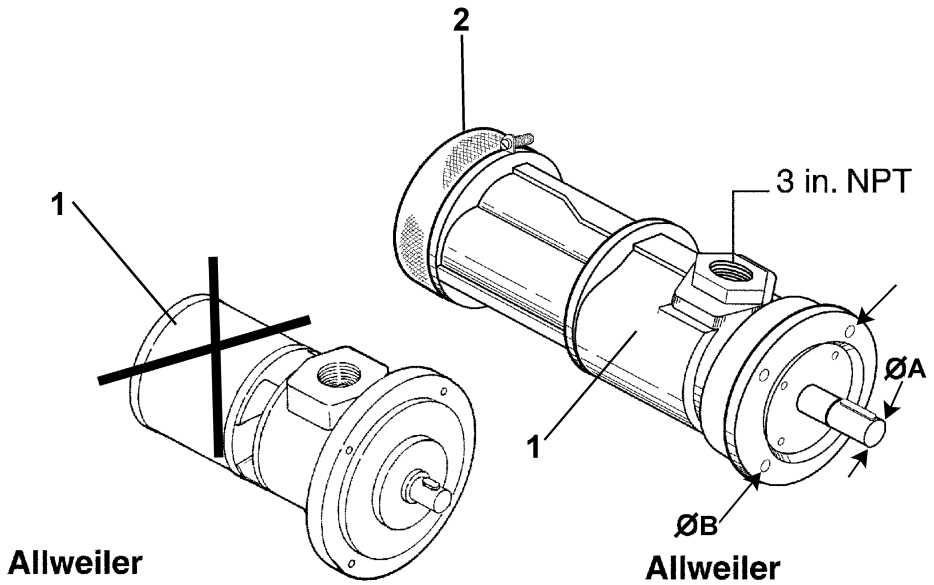

REF. No.	MACHINE SIZE	PART NO.	GPM	SHAFT ∅ A	BOLT HOLE CIRCLE ∅ B	REMARKS
1	20040S–20050S	6962AE1	200	1.50 in. (38 mm)	12.20 in. (310 mm)	Use 6962AE3 & NOTE 3
	26040S–26050S	6962AE2	260			Use 6962AE4 & NOTE 3
	20040S–20050S	6962AE3	200	1.26 in. (32 mm)	10.24 in. (260 mm)	NOTE 1 & 3
	26040S–26050S	6962AE4	260			
2	- - -	AAA27076AX21	Screen, Inlet (for 6962AE3, 6962AE4)			

CAUTION: Pump interchangeability problems could exist. Read all notes carefully.

NOTE 1: 6962AE3 & 4 are used with 6333DT motors with the same shaft and bolt hole circle diameters and AAA6333ER motors.

NOTE 2: For available fittings, couplings and pipes, pp. 18–19.

NOTE 3: Please order the appropriate 6333DT motor when replacing a 6962AE1 or 2 with a 6962AE3 or 4 (respectively) because the existing motor will not mate.

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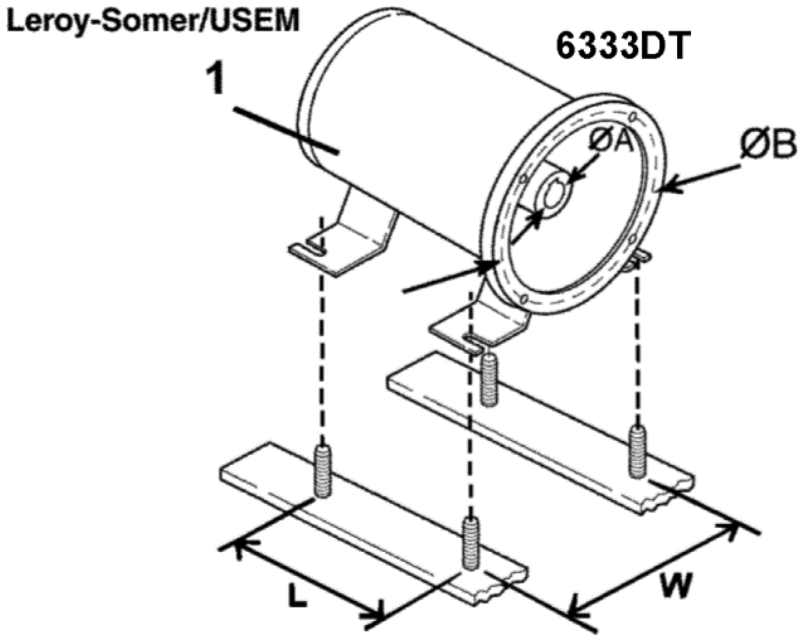
80 Start/Hr 6333DT Submersible Motors



NOTE: For ordering information, refer to *Submersible Hydraulic Motor & Pump Ordering Procedures* on pp. 8–9.

		PART NO.				
REF. No.	**MACHINE SIZE**	**200 V**	**230 V/460 V**	**575 V**	**MOTOR HP**	**DIMENSIONS**
1	20040S–26040S	6333DT1	~~6333DT2~~ (230) ~~6333DT3~~ (460) 6333DT9	6333DT4	40	∅ A = 1.50 in. (38 mm) ∅ B = 12.20 in. (310 mm) L = 11.8 in. (300 mm) W = 11.0 in. (279 mm) **NOTE 1**
	20050S–26050S	6333DT5	~~6333DT6~~ (230) ~~6333DT7~~ (460) 6333DT10	6333DT8	50	
	20040S–26040S	6333DT11	6333DT12	6333DT13	40	∅ A = 1.26 in. (32 mm) ∅ B = 10.24 in. (260 mm) L = 11.8 in. (300 mm) W = 11.0 in. (279 mm) **NOTE 2**
	20050S–26050S	6333DT14	6333DT15	6333DT16	50	

CAUTION: Pump interchangeability problems could exist. Read all notes carefully.

NOTE 1: The 6333DT1, 4, 5, 8, 9, 10 motors are used only with 6962AE1 and AE2 pumps.

NOTE 2: The 6333DT11–16 motors are used only in machines originally equipped with 6962AE1 or AE2 pumps when the pumps are being or have been replaced with 6962AE3 or AE4.

NOTE 3: The 6333DT motors are not available at 120 starts per hour.

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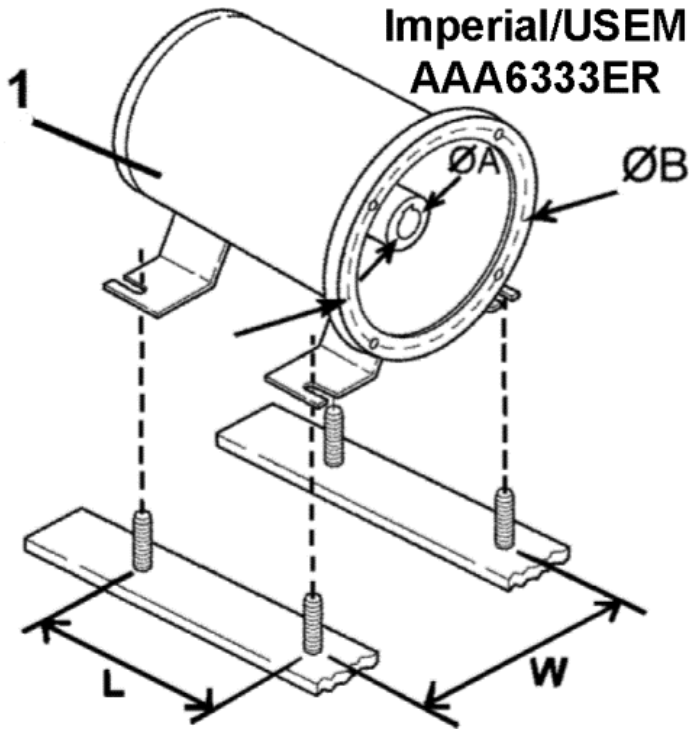
Submersible Motors



NOTE: For ordering information, refer to *Submersible Hydraulic Motor & Pump Ordering Procedures* on pp. 8–9.

		PART NO.					
REF. No.	**MACH. SIZE**	**200 V**	**230 V/460 V**	**575 V**	**MOTOR HP**	**STARTS PER HOUR**	**DIMENSIONS**
1	20040S – 26040S	AAA6333ER1	AAA6333ER2	AAA6333ER3	40	80	∅ A = 1.26 in. (32 mm) ∅ B = 10.24 in. (260 mm) L = 9.0 in. (229 mm) W = 10.0 in. (254 mm) **NOTE**
	20050S – 26050S	AAA6333ER4	AAA6333ER5	AAA6333ER6	50		
	20040S – 26040S	AAA6333ER7	AAA6333ER8	AAA6333ER9	40	120	

CAUTION: Pump interchangeability problems could exist. Read all notes carefully.

NOTE: The AAA6333ER1–9 motors are used only in machines originally equipped with 6962AE3 or AE4 pumps and AAA6333ER motors.

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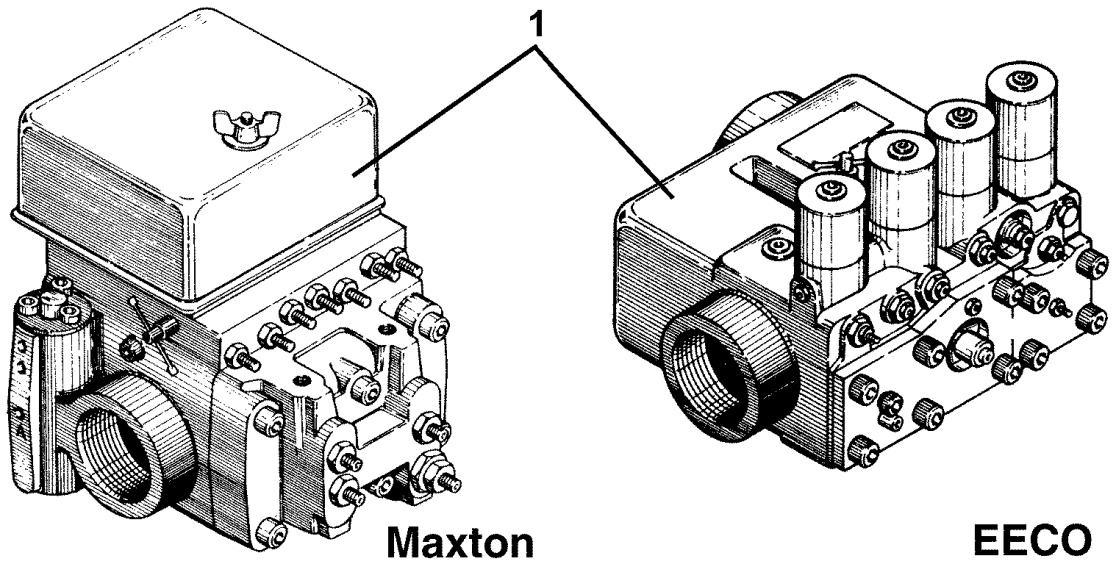
Hydraulic Control Valves



REF. No.	MACHINE SIZE	PART No.	DESCRIPTION
1	5615S–5625S	~~271AK6~~	EECO, UV-5A **NOTE 1**
		~~271AP4~~	Maxton, UC-4M (L2)
		271AP5	Maxton, UC-4M (E1) All Ports, 2 in. NPT
		~~271AP8~~ 271AP11	Maxton, UC-4M (E1) Pump Port, 2 in. Groove, Others 2 in. NPT
	7520S–9440S	~~271AK5~~	EECO, UV-5A **NOTE 1**
		~~271AP3~~	Maxton, UC-4M (L3)
		271AP6	Maxton, UC-4M (E2) All Ports, 2 in. NPT
		~~271AP9~~ 271AP12	Maxton, UC-4M (E2) Pump Port, 2 in. Groove, Others 2 in. NPT
	12020S–17050S	~~271AK7~~	EECO, UV-5A **NOTE 1**
	12020S–12050S	~~271AP2~~	Maxton, UC-4M (VL)
	15025S–17050S	~~271AP1~~	Maxton, UC-4M
	12020S–15050S	271AP7	Maxton, UC-4M (STD) All Ports, 2 in. NPT
	17020S –17050S		**NOTE 2**
	12020S–15050S	~~271AP10~~ 271AP13	Maxton, UC-4M (STD) Pump Port, 2 in . Groove, Others 2 in. NPT
	17020S–26050S **NOTE 2**	~~271AT1~~	EECO, UV-7B **NOTE 1**
		271AL1	Maxton, UC-1A All Ports, 2 in. NPT
		271AL2	Maxton, UC-1A Pump Port, 2 in. Groove, Others 2 in. NPT

NOTE 1: When replacing an EECO valve with the corresponding Maxton valve, TIP 6.3.3-16.

NOTE 2: Do not use the 271AP7 valve on 170 series machines installed after 1994. Use the 271AL1 or 271AL2 valve instead.

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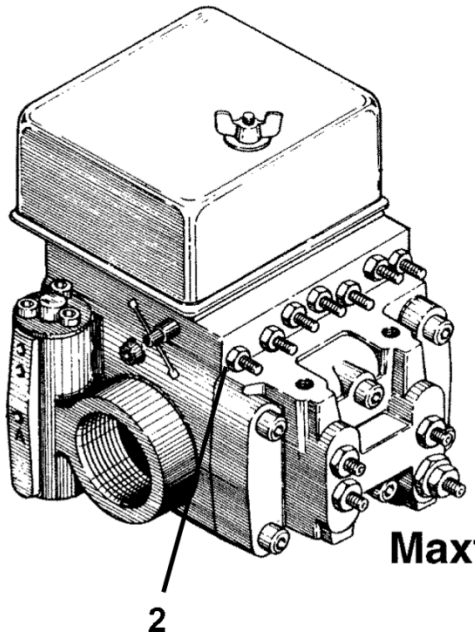
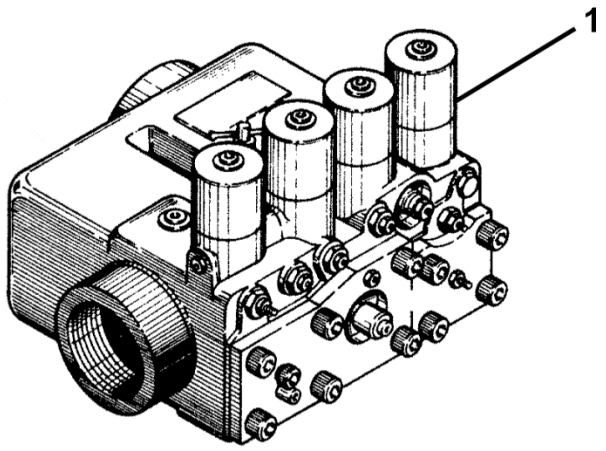


Maxton



EECO

REF. No.	PART No.	DESCRIPTION	Valve Type
1*	MAXT208000	Coil, Individual, 208 / 220 / 230 VAC, Green	Maxton UC-1A, UC-4(M)
	MAXT208100	Coil, Individual, 115 VDC, Black	
	MAXT208200	Coil, Individual, 115 VAC / 24 VDC, Red	
	EEC0S-461	Coils, Set of 4, 115 VAC, Green	EECO UV-5A
	EEC0S-462	Coils, Set of 4, 208 VAC, Green	
	EEC0S-463	Coils, Set of 4, 220 VAC / 110 VDC, Green	
	EEC0S-651	Coils, Set of 4, 110 VAC, Black	EECO UV-7B
	EEC0S-652	Coils, Set of 4, 208 VAC, Black	
	EEC0S-653	Coils, Set of 4, 220 VAC, Black	
**	AAA20302A1	Seal Kit	Maxton UC-1A
	AAA20302A2		Maxton UC-4(M)
	AAA20302A3		Maxton OSV Rupture Valve
	EEC05131V		EECO UV-5A
	EEC05317V		EECO UV-7B
**	AAA20302A4	Solenoid Kit	Maxton UC-1A
	AAA20302A5		Maxton UC-4(M)
	EEC05106V		EECO UV-5A
	EEC05428V		EECO UV-7B
2	MAXT280070	Assembly, Adjuster Screw	Maxton UC-1A, UC-4(M)

* Not shown for Maxton.

** Not shown.

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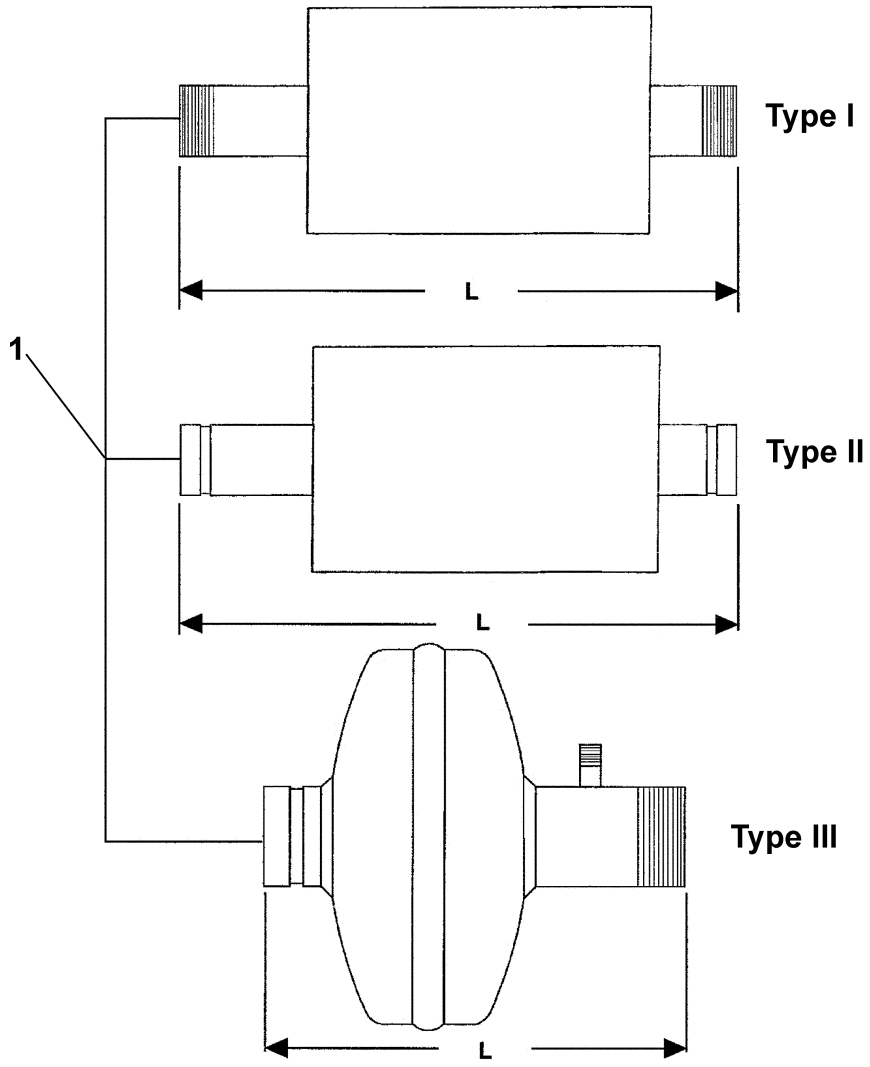
Mufflers



REF. No.	PART No.	DESCRIPTION	L (in.)	TYPE	LOCATION
1	~~AAA00726AAA001~~ ABA00726AAA001	Muffler, Male 2 in. NPT Both Ends (W→190 Gal Tank & 120–170 GPM Machines)	20.7	I	Between Pump & Valve
	~~AAA00726AAA002~~ ABA00726AAA002	Muffler, Male 2 in. NPT Both Ends	15.2	I	Between Pump & Valve
	~~AAA00726AAA003~~ ABA00726AAA003	Muffler, 2 in. Victaulic Grooves Both Ends	16.0	II	In to/from Line Outside Tank
	AAA726D1	Muffler, Male 2 in NPT One End, 2 in. Victaulic Groove One End	10.1	III	At Jack Port of Valve Inside Tank

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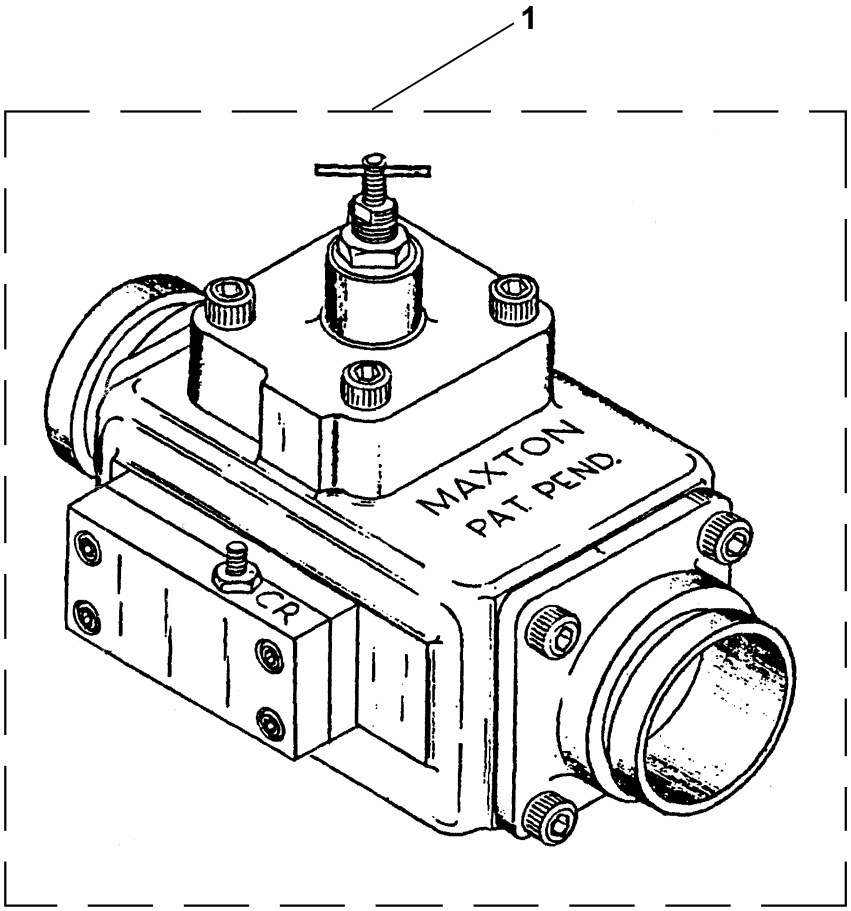
Type AAA271DH
Pipe Rupture Valve



REF. No.	PART No.	DESCRIPTION
1	AAA271DH1	Valve, Pipe Rupture, 2 in. Victaulic Ends, 100 to 300 GPM
	AAA271DH2	Valve, Pipe Rupture, 2 1/2 in. Victaulic Ends, 100 to 300 GPM
	AAA271DH3	Valve, Pipe Rupture, 2 in. Victaulic Ends, Less Than 100 GPM
	AAA271DH4	Valve, Pipe Rupture, 2 1/2 in. Victaulic Ends, Less Than 100 GPM
	AAA271DH5	Valve, Pipe Rupture, 2 in. Thread Jack Side, 2 in. Victaulic Pump Side, 100 to 300 GPM
	AAA271DH6	Valve, Pipe Rupture, 2 1/2 in. Thread Jack Side, 2 1/2 in. Victaulic Pump Side, 100 to 300 GPM
	AAA271DH7	Valve, Pipe Rupture, 2 in. Thread Jack Side, 2 in. Victaulic Pump Side, Less than 100 GPM
	AAA271DH8	Valve, Pipe Rupture, 2 1/2 in. Thread Jack Side, 2 1/2 in. Victaulic Pump Side, Less than 100 GPM

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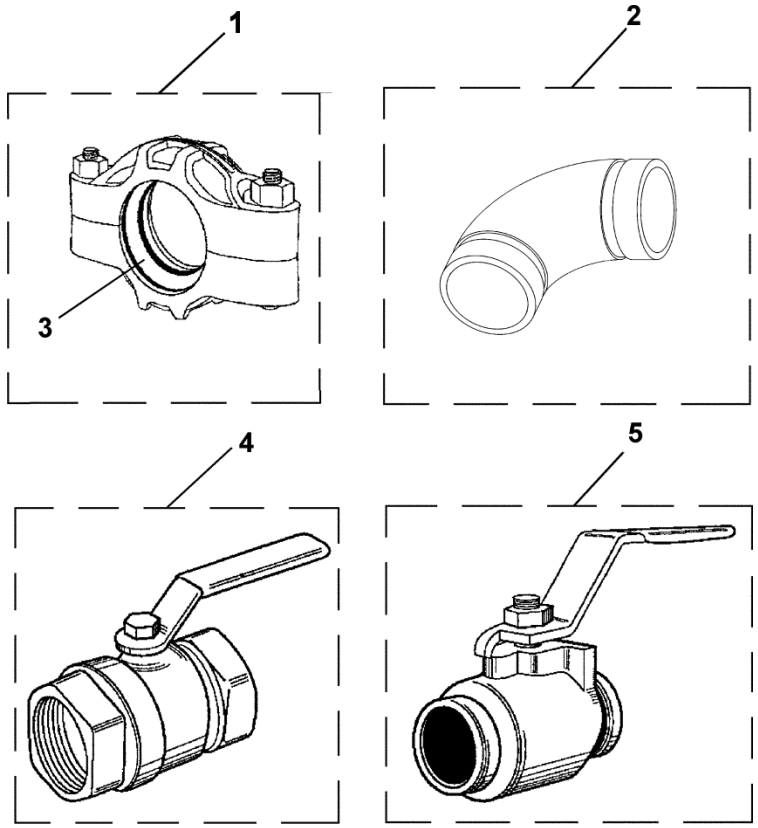
Hydraulic Piping Sundries



REF. No.	PART No.	DESCRIPTION
1	441AS3	Coupling, Victaulic Style 77 STD, Size 2 in. (flexible)
	441AS4	Coupling, Victaulic Style 77 STD, Size 2.5 in. (flexible)
	441AS5	Coupling, Victaulic Style 77 STD, Size 3 in. (flexible)
	441AS6	Coupling, Victaulic Style 77 STD, Size 4 in. (flexible)
	441AS12	Coupling, Victaulic Style 07, Size 2 in. (zero-flex)
	441AS16	Coupling, Victaulic Style HP-07, Size 2 in. (rigid coupling)
2	441BC1	Elbow, 90°, 2 in. Pipe, Victaulic Grooved Ends
	441BC4	Elbow, 90°, 2.5 in. Pipe, Victaulic Grooved Ends
	441BC5	Elbow, 90°, 3 in. Pipe, Victaulic Grooved Ends
3	AAA376GK3	Gasket, Victaulic, Size 2 in.
	AAA376GK4	Gasket, Victaulic, Size 2.5 in.
	AAA376GK5	Gasket, Victaulic, Size 3 in.
	AAA376GK6	Gasket, Victaulic, Size 4 in.
4	271AG2	Valve, Ball, 2 in. NPT, Threaded at Both Ends
5	~~271AS1~~	Valve, Ball, Size 2 in., Victaulic Ends (working pressure < 600 PSI)
	~~271AS5~~	Valve, Ball, Size 2 in., Victaulic Ends (working pressure < 800 PSI)
	271AS6	Valve, Ball, Size 2 in., Victaulic Ends (working pressure < 1000 PSI)
	271AS7	Valve, Ball, Size 2-1/2 in., Victaulic Ends (working pressure < 1000 PSI)
	271AS8	Valve, Ball, Size 3 in., Victaulic Ends (working pressure < 1000 PSI)
	271AS9	Valve, Ball, Size 4 in., Victaulic Ends (working pressure < 800 PSI)
*	VP-740650	Viclube, Gasket Lubricant, 4.5 oz. Tube

* Part not shown.

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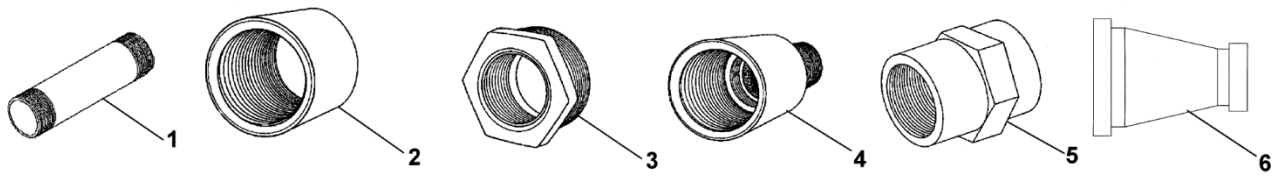

REF. No.	PART No.	DESCRIPTION
1	377CH38	Pipe, 1.5 in. x 8.2 in., Standard Pipe Thread at Both Ends
	377CH39	Pipe, 1.5 in. x 9.4 in., Standard Pipe Thread at Both Ends
	377CH40	Pipe, 1.5 in. x 16.0 in., Standard Pipe Thread at Both Ends
	377CH41	Pipe, 1.5 in. x 17.5 in., Standard Pipe Thread at Both Ends
	377CH28	Pipe, 2 in. x 16.0 in., Standard Pipe Thread at Both Ends
	377CH44	Pipe, 2 in. x 17.4 in., Standard Pipe Thread at Both Ends
	441AP22	Pipe, 2 in. x 120.0 in., Victaulic Grooved at Both Ends
	441AP26	Pipe, 2 in. x 7.0 in., Victaulic Grooved at Both Ends
	441AP52	Pipe, 2 in. x 21.50 in. Standard Pipe Thread One End, Victaulic Grooved Other End
	441AP53	Pipe, 2 in. x 23.50 in. Standard Pipe Thread One End, Victaulic Grooved Other End
2	377CX2	Pipe Coupling, 0.25 in. NPT Int. Both Ends (1.19 in. overall L)
	377CX9	Pipe Coupling, 2 in. NPT Int. Both Ends (2.12 in. overall L)
	377CX10	Pipe Coupling, 2.5 in. NPT Int. Both Ends (3.12 in. overall L)
	377CX11	Pipe Coupling, 3 in. NPT Int. Both Ends (3.25 in. overall L)
3	441DH1	Reducing Coupling, 2.5 in. NPT Ext, 2 in. NPT Int. (1.69 in. overall L)
	441DH3	Reducing Coupling, 2 in. NPT Ext., 1.5 in. NPT Int. (1.44 in. overall L)
	441DH6	Reducing Coupling, 3 in. NPT Ext., 2 in. NPT Int. (1.94 in overall L)
4	441DF2	Reducing Coupling, 2 in. NPT Int., 1.5 in. NPT Ext. (4.19 in. overall L)
	441DE2	Reducing Coupling, 0.5 in. NPT Int., 0.25 in. NPT Ext. (1.69 in. overall L)
5	377DT2	Reducing Coupling, 0.5 in. NPT Int., 0.25 in. NPT Int. (1.30 in. overall L)
6	AAA00441AAB001	Reducing Coupling, 2.5 in., 2 in., Victaulic Ends
	AAA00441AAB002	Reducing Coupling, 3 in., 2 in., Victaulic Ends
	AAA00441AAB003	Reducing Coupling, 4 in., 2 in., Victaulic Ends
	AAA00441AAB004	Reducing Coupling, 4 in., 3 in., Victaulic Ends
	AAA00441AAB005	Reducing Coupling, 3 in., 2.5 in., Victaulic Ends
	AAA00441AAB006	Reducing Coupling, 4 in., 2.5 in., Victaulic Ends

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