

MODEL

SSV

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SSV PRODUCT LINE NUMBERING SYSTEM

The various versions of the SSV line are identified by a product code number on the pump label. The number is also the catalog number for the pump. The meaning of each digit in the product code is shown below.

2 SV A 1 D 2 B 0 H

OPTIONS

H = Horizontal Mounting AQ = Staging for Aquavar Units
 Vic = Victaulic Connections

MECHANICAL SEAL OPTIONS

Code No.	Rotary	Stationary	Elastomers	Reference Application	Part Number		
					1SV/2SV	3SV/4SV	5SV/6SV
0	High Temp Carbon	Silicon Carbide (Graphite filled)	Viton	General Service	10K93	10K94	10K95
4	Silicon Carbide			Abrasive	10K99	10K100	10K101
6	High Temp Carbon		EPR	Boiler Feed	10K96	10K97	10K98

Metal parts on all seals are 316SS. When reordering units with previous seal options 2, 3 or 5 review application and order new seal option from above chart.

NUMBER OF STAGES

A = 1 F = 6 L = 11 R = 16 Z = 24
 B = 2 G = 7 M = 12 S = 17
 C = 3 H = 8 N = 13 T = 18
 D = 4 J = 9 P = 14 V = 20
 E = 5 K = 10 Q = 15 X = 22

DRIVER

1 = 1PH, ODP 4 = 1 PH, TEFC 7 = 3 PH, XP 0 = 1 PH, XP
 2 = 3 PH, ODP 5 = 3 PH, TEFC 8 = 575 V, XP
 3 = 575 V, ODP 6 = 575 V, TEFC 9 = 3 PH, TEFC Premium Efficiency

HP RATING

C = ½ HP F = 1½ HP J = 5 HP M = 15 HP Q = 30 HP
 D = ¾ HP G = 2 HP K = 7½ HP N = 20 HP R = 40 HP
 E = 1 HP H = 3 HP L = 10 HP P = 25 HP S = 50 HP

HERTZ/RPM

1 = 60 HZ, 3450 RPM, 2 pole
 2 = 60 HZ, 2900 RPM, 2 pole

MATERIAL AND SUCTION/DISCHARGE

A = 304 Stainless Steel, in-line NPT threaded oval flange connections
 B = 304 Stainless Steel, in-line ANSI flange
 C = 304 Stainless Steel, top/bottom ANSI flange connections
 D = 316 Stainless Steel, in-line ANSI flange

PRODUCT LINE

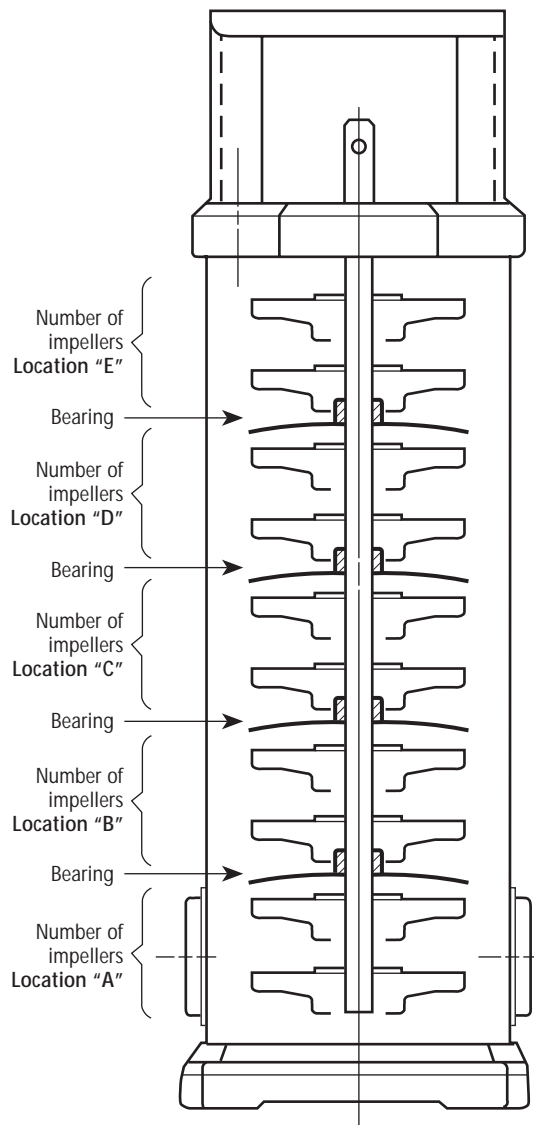
Stainless Steel Vertical

NOMINAL FLOW

1 = 15 GPM 3 = 55 GPM 5 = 145 GPM
 2 = 28 GPM 4 = 86 GPM 6 = 290 GPM

IMPELLERS AND INTERMEDIATE BEARINGS LAYOUT

Number of Stages	Number of Bearings	1SV Number of Impellers in Location					Number of Bearings	2SV Number of Impellers in Location					Number of Bearings	3SV Number of Impellers in Location				Number of Bearings	4SV Number of Impellers in Location				
		A	B	C	D	E		A	B	C	D	E		A	B	C	D		A	B	C	D	
2	1	1	1				1	1	1				1	1	1				1	1	1		
3	1	1	2				1	1	2				1	1	2				1	1	1		
4	1	2	2				1	2	2				1	2	2				1	1	1		
5	1	2	3				1	2	3				1	2	3				1	1	1		
6	1	2	4				1	2	4				1	2	4				1	1	1		
7	1	2	5				1	2	5				1	2	5				1	1	1		
8	1	2	6				1	2	6				2	2	3	3			2	2	3	3	
9	2	2	4	3			2	2	4	3			2	2	4	3							
10													2	2	4	4			2	2	4	4	
11	2	2	5	4			2	2	5	4			2	2	5	4							
12	2	2	5	5									2	2	5	5			2	2	5	5	
13	2	2	6	5			2	2	6	5			3	2	3	4	4						
14	2	2	6	6			2	6	6	6			3	2	4	4	4		3	2	4	4	4
15	2	2	7	6			2	2	7	6								3	2	4	4	4	5
16	2	2	7	7			2	2	7	7			3	2	4	5	5						
18	3	2	5	6	5		3	2	5	6	5												
20	3	2	6	6	6		3	2	6	6	6												
22	4	7	5	5	5	5	4	2	5	5	5	5											
24	4	2	6	6	5	5	4	2	6	6	5	5											

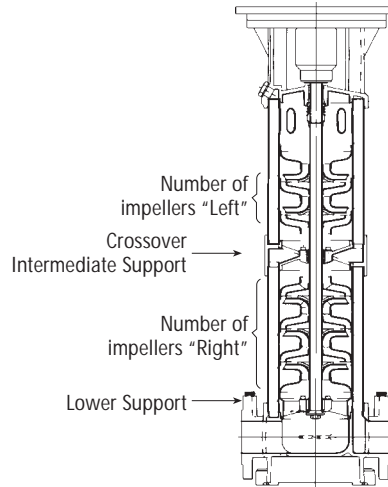


The chart on this page is used to locate the correct bearing position(s) on the impeller stack of the SSV series pumps. To use this chart:

1. Locate the number of stages in the left hand column of the above chart which corresponds to the pump you are working on.
2. Follow the selected row across to the pump size (1SV etc).
3. Under the "A" location, you will find the number of impellers on the bottom of the stack which come before the first bearing.
4. Under the "B" location, you will find the number of impellers which go above the first bearing and below the second bearing (if there is one).
5. Under the "C" location, you will find the number of impellers which go above the second bearing and below the third bearing (if there is one).
6. Under the "D" location, you will find the number of impellers which go above the third bearing.
6. Under the "E" location, you will find the number of impellers which go above the third bearing.

5SV AND 6SV WITH CROSSOVER

Number of Stages	Number of Impellers	
	Above Crossover (Left Hand)	Below Crossover (Right Hand)
5	2	3
6	2	4
7	3	4
8	3	5
9	4	5
10	4	6
11	5	6
12	5	7

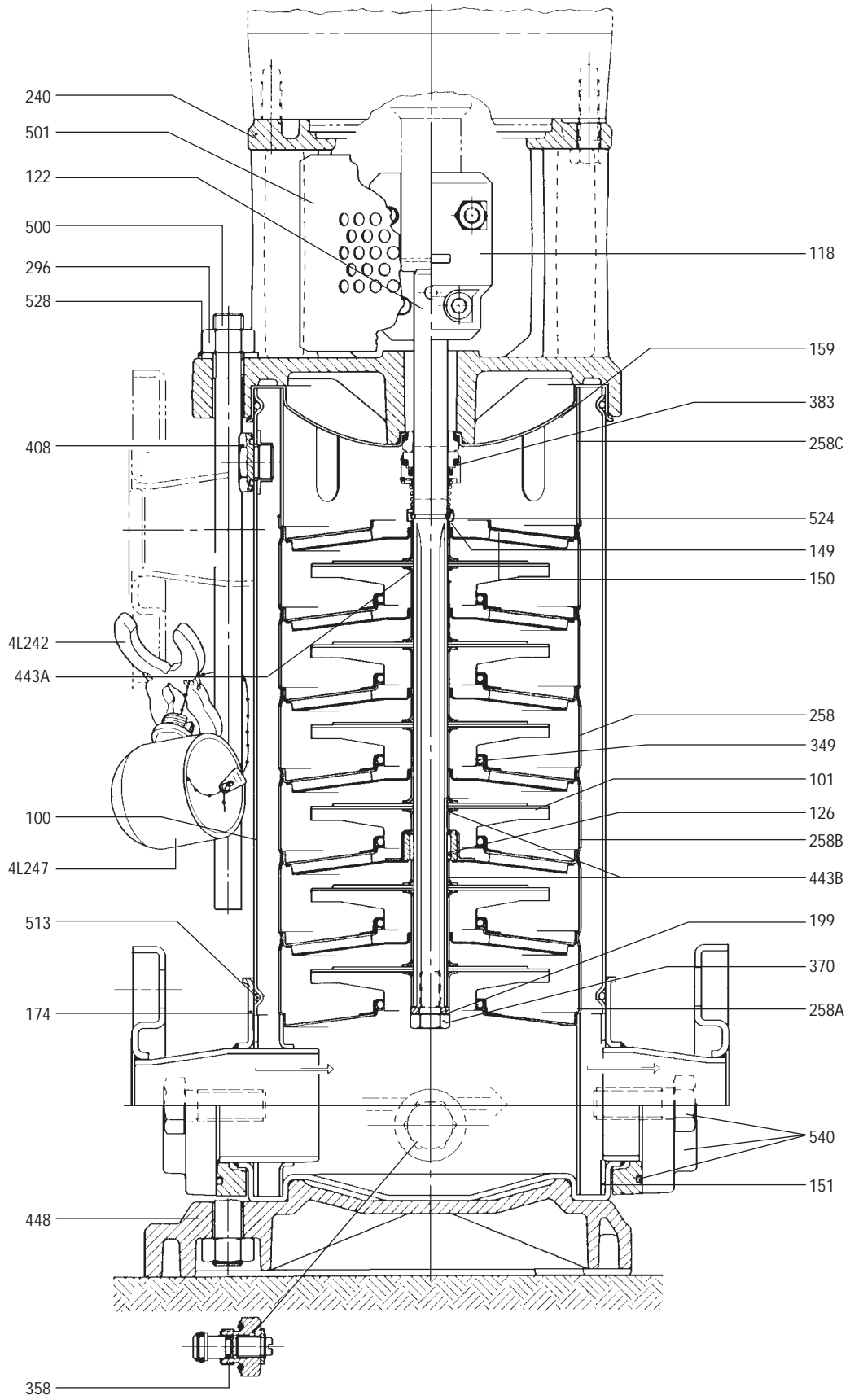


COUPLING TABLE

Item No.	Pump Size			Number of Stages																				
				2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	18	20	22	24		
118	1SV	60 Hz	TEFC													4L189								
			ODP	4L188											4L188			4L189						
		50 Hz	TEFC														4L188							
			ODP	4L188											4L188			4L189						
	2SV	60 Hz	TEFC													4L189			4L189					
			ODP	4L188											4L189			4L189						
		50 Hz	TEFC																					
			ODP	4L188											4L188		4L189			4L189				
	3SV	60 Hz	TEFC											4L193										
			ODP	4L190				4L191						4L192										
		50 Hz	TEFC													4L192		4L192						
			ODP															4L192	4L193					
	4SV	60 Hz	TEFC																					
			ODP																					
		50 Hz	TEFC		4L191								4L193											
			ODP		4L191				4L192			4L193			4L193		4L193							
	5SV	60 Hz	TEFC																					
			ODP																					
		50 Hz	TEFC																					
			ODP		4L312					4L313		4L314												
	6SV	60 Hz	TEFC																					
			ODP																					
		50 Hz	TEFC																					
			ODP		4L312		4L313			4L314														

COUPLING PIN SUPPLIED WITH COUPLING COMPLETE AND SHAFT ASSEMBLY

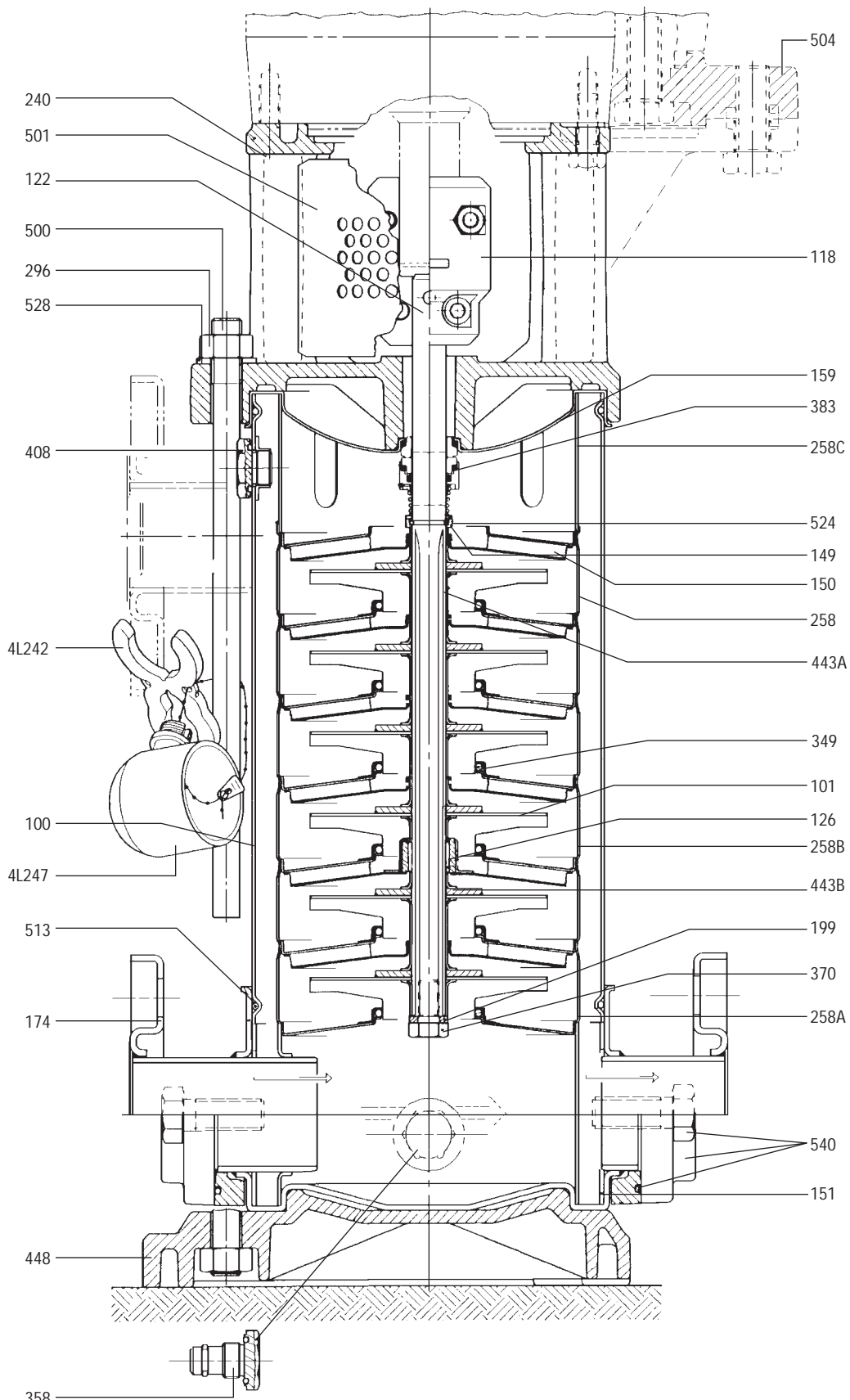
Size	Pin Repair Part Number
1SV	4L170
2SV	
3SV	4L171
4SV	
5SV	4L283
6SV	



1SV AND 2SV

Item No.	Part Name	Number of Stages																						
		2	3	4	5	6	7	8	9	11	12	13	14	15	16	18	20	22	24					
240	Motor adapter	See motor adapter chart page 13																						
501	Coupling guard - old snap in	4L182																						
	Coupling guard - new with screws	4L450																						
122	Shaft assembly includes items 149,199,370,524 and coupling pin	Type A	4L206	4L207	4L208	4L209	4L210	4L211	4L212	4L213	4L214	4L215	4L215	4L216	4L216	4L217								
		Type B	4L206	4L207	4L208	4L209	4L210	4L211	4L212	4L213	4L214	4L215	4L215	4L216	4L216	4L217	4L431	4L432	4L433	4L434				
		Type C				4L209	4L210	4L211	4L212	4L213	4L214	4L215	4L215	4L216	4L216	4L217								
		Type D	4L218	4L219	4L220	4L221	4L222	4L223	4L224	4L225	4L226	4L227	4L227	4L228	4L228	4L272	4L435	4L436	4L437	4L438				
126	Shaft sleeve	4L180																						
100	Casing with fill plug	Type A	1L344	1L345	1L346	1L347	1L348	1L349	1L350	1L351	1L387	1L353	1L353	1L354	1L354	1L367								
		Type B	1L344	1L345	1L346	1L347	1L348	1L349	1L350	1L351	1L387	1L353	1L353	1L354	1L354	1L367	1L355	1L504	1L505	1L506				
		Type C				1L368	1L369	1L370	1L371	1L372	1L373	1L374	1L374	1L375	1L375	1L352								
		Type D	1L356	1L357	1L358	1L359	1L360	1L361	1L362	1L363	1L364	1L365	1L365	1L366	1L366	1L390	1L507	1L508	1L509	1L510				
151	Casing spacer	Type A	4L172																					
		Type B	4L172																					
		Type C				4L172																		
		Type D	4L250																					
513	O-ring casing	5L93 Viton			5L88 EPR																			
174	Pump body includes item 151	Type A	1L338																					
		Type B	1L340																					
		Type C				1L342																		
		Type D	1L388																					
		Victaulic	1L500																					
448	Base plate	Type A	1L379																					
		Type B	1L380																					
		Type C				1L380																		
		Type D	1L380																					
159	Seal housing	Type A	1L377																					
		Type B	1L377																					
		Type C				1L377																		
		Type D	1L416																					
383	Mechanical seal with washer	See optional seal table on page 1																						
524	Split ring	4L245																						
149	Split ring cover	4L243																						
258C	Final spacer	Type A	4L174																					
		Type B	4L174																					
		Type C				4L174																		
		Type D	4L248																					
150	Final diffuser	Type A	3L26																					
		Type B	3L26																					
		Type C				3L26																		
		Type D	3L28																					
258A	1st stage bowl with impeller Viton O-ring	Type A	7L354																					
		Type B	7L354																					
		Type C				7L354																		
		Type D	7L363																					
258B	Bowl with bushing and impeller Viton O-ring	Type A	7L351																					
		Type B	7L351																					
		Type C				7L351																		
		Type D	7L360																					
258	Bowl with impeller Viton O-ring	Type A				7L348																		
		Type B				7L348																		
		Type C				7L348																		
		Type D				7L357																		
349	O-ring impeller	5L90 Viton			5L83 EPR																			
101	Impeller	1SV = 2L160			2SV = 2L170																			
443A	Impeller spacer	4L177																						
443B	Impeller spacer (intermediate)	4L176																						
199	Impeller fixing washer	13L105																						
370	Impeller fixing screw	13L95																						
500	Tie rod with nuts and washers	4L230	4L231	4L232	4L233	4L234	4L235	4L236	4L237	4L238	4L239	4L239	4L240	4L240	4L273	4L322	4L323	4L324	4L325					
296	Nut tie rod	13L98																						
528	Washer tie rod	13L100																						
540	Oval flange assembly	Type A	1SV = 4L185			2SV = 4L186																		
118	Coupling complete	See coupling table on page 3																						
408	Filling plug with O-ring	6L19 Viton			6L25 EPR																			
358	Drain plug with O-ring	6L17 Viton			6L23 EPR																			
—	Motor assembly shim	4L242																						
—	Filling funnel	4L247																						

NOTE: Stages 18-24 are available in 50 Hz only.



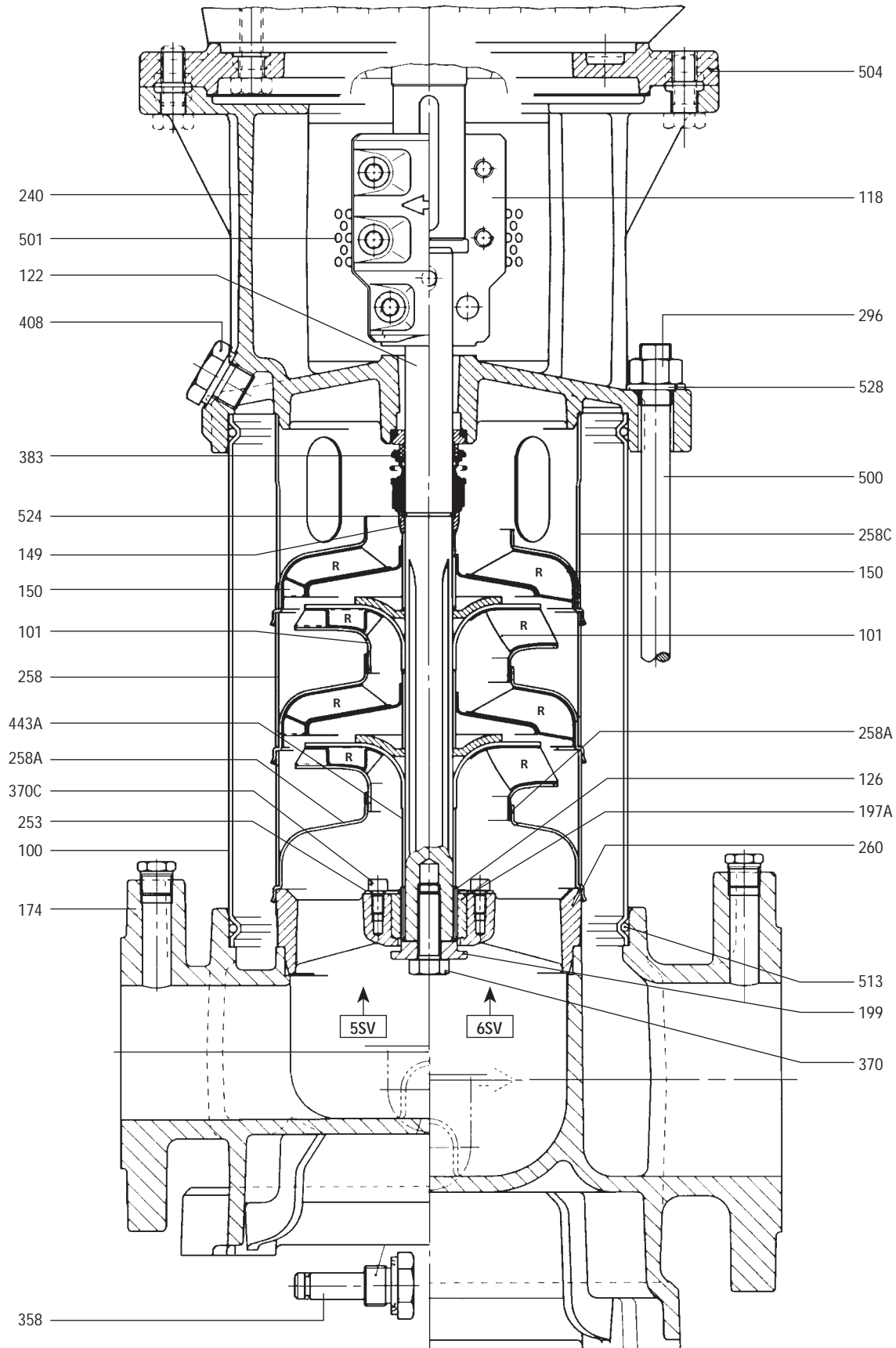
157 Stage spacer is not shown.
Used on 6, 9 and 12 stage units.

3SV AND 4SV

Item No.	Part Name	Number of Stages																
		2	3	4	5	6	7	8	9	10	11	12	13	14	16			
240	Motor adapter	See motor adapter chart page 13																
504	Adapting flange (motor mounting)	See motor adapter chart page 13																
501	Coupling guard - old snap in	4L184			3SV = 4L184			4SV = 4L183			4L183							
	Coupling guard - new with screws	4L451			3SV = 4L451			4SV = 4L452			4L452							
122	Shaft assembly includes items 149,199,370,524 and coupling pin	Type A	4L254	4L255	4L256	4L257	4L258	4L258	4L259	4L260	4L260	4L261	4L262	4L262	4L439	4L440		
		Type B	4L254	4L255	4L256	4L257	4L258	4L258	4L259	4L260	4L260	4L261	4L262	4L262				
		Type C				4L256	4L257	4L258	4L258	4L259	4L260	4L260	4L261	4L262	4L262			
		Type D	4L263	4L264	4L265	4L266	4L267	4L267	4L268	4L269	4L269	4L270	4L271	4L271	4L441	4L442		
126	Shaft sleeve	4L181																
100	Casing with fill plug	Type A	1L391	1L392	1L393	1L394	1L395	1L395	1L396	1L397	1L397	1L398						
		Type B	1L391	1L392	1L393	1L394	1L395	1L395	1L396	1L397	1L397	1L398	1L399	1L399	1L515	1L516		
		Type C				1L409	1L410	1L411	1L411	1L412	1L413	1L413	1L414	1L415	1L415			
		Type D	1L400	1L401	1L402	1L403	1L404	1L404	1L405	1L406	1L406	1L407	1L408	1L408	1L517	1L518		
151	Casing spacer	Type A	4L173															
		Type B	4L173															
		Type C				4L173												
		Type D	4L251															
513	O-ring casing	5L94 Viton			5L89 EPR													
174	Pump body includes item 151	Type A	1L339															
		Type B	1L341															
		Type C				1L343												
		Type D	1L389															
		Victaulic	1L501															
448	Base plate	Type A	1L381															
		Type B	1L382															
		Type C				1L382												
		Type D	1L382															
159	Seal housing	Type A	1L378															
		Type B	1L378															
		Type C				1L378												
		Type D	1L417															
383	Mechanical seal with washer	See optional seal table on page 1																
524	Split ring	4L246																
149	Split ring cover	4L244																
258C	Final spacer	Type A	4L175															
		Type B	4L175															
		Type C				4L175												
		Type D	4L249															
150	Final diffuser	Type A	3L27															
		Type B	3L27															
		Type C				3L27												
		Type D	3L29															
258A	1st stage bowl with impeller Viton O-ring	Type A	7L355															
		Type B				3SV = 7L355			4SV = 7L356									
		Type C				3SV = 7L355			4SV = 7L356									
		Type D	3SV = 7L364			4SV = 7L365												
258B	Bowl with bushing and impeller Viton O-ring	Type A	7L352															
		Type B	3SV = 7L352			4SV = 7L353												
		Type C				3SV = 7L352			4SV = 7L353									
		Type D	3SV = 7L361			4SV = 7L362												
258	Bowl with impeller Viton O-ring	Type A	7L349															
		Type B				3SV = 7L349			4SV = 7L350									
		Type C				3SV = 7L349			4SV = 7L350									
		Type D				3SV = 7L358			4SV = 7L359									
158D	Final Diffuser Flange						4L200				4L200							
157	Stage spacer						4L252				4L252							
101	Impeller	3SV = 2L180			4SV = 2L190													
443A	Impeller spacer	4L178																
443B	Impeller spacer (intermediate stage)	4L179																
199	Impeller fixing washer	13L106																
370	Impeller fixing screw	13L96																
349	O-ring impeller	3SV = 5L91 Viton			3SV = 5L84 EPR			4SV = 5L92 Viton			4SV = 5L85 EPR							
500	Tie rod with nuts and washer	4L274	4L275	4L276	4L277	4L278	4L279	4L279	4L280	4L280	4L281	4L282	4L282	4L326	4L327			
296	Nut tie rod	13L99																
528	Washer tie rod	13L101																
540	Oval flange assembly 3SV Type A only	4L187																
118	Coupling complete	See coupling table on page 3																
408	Fill plug with O-ring	6L19 Viton			6L25 EPR													
358	Drain plug with O-ring	6L18 Viton			6L24 EPR													
—	Motor assembly shim	4L242																
—	Filling funnel	4L247																

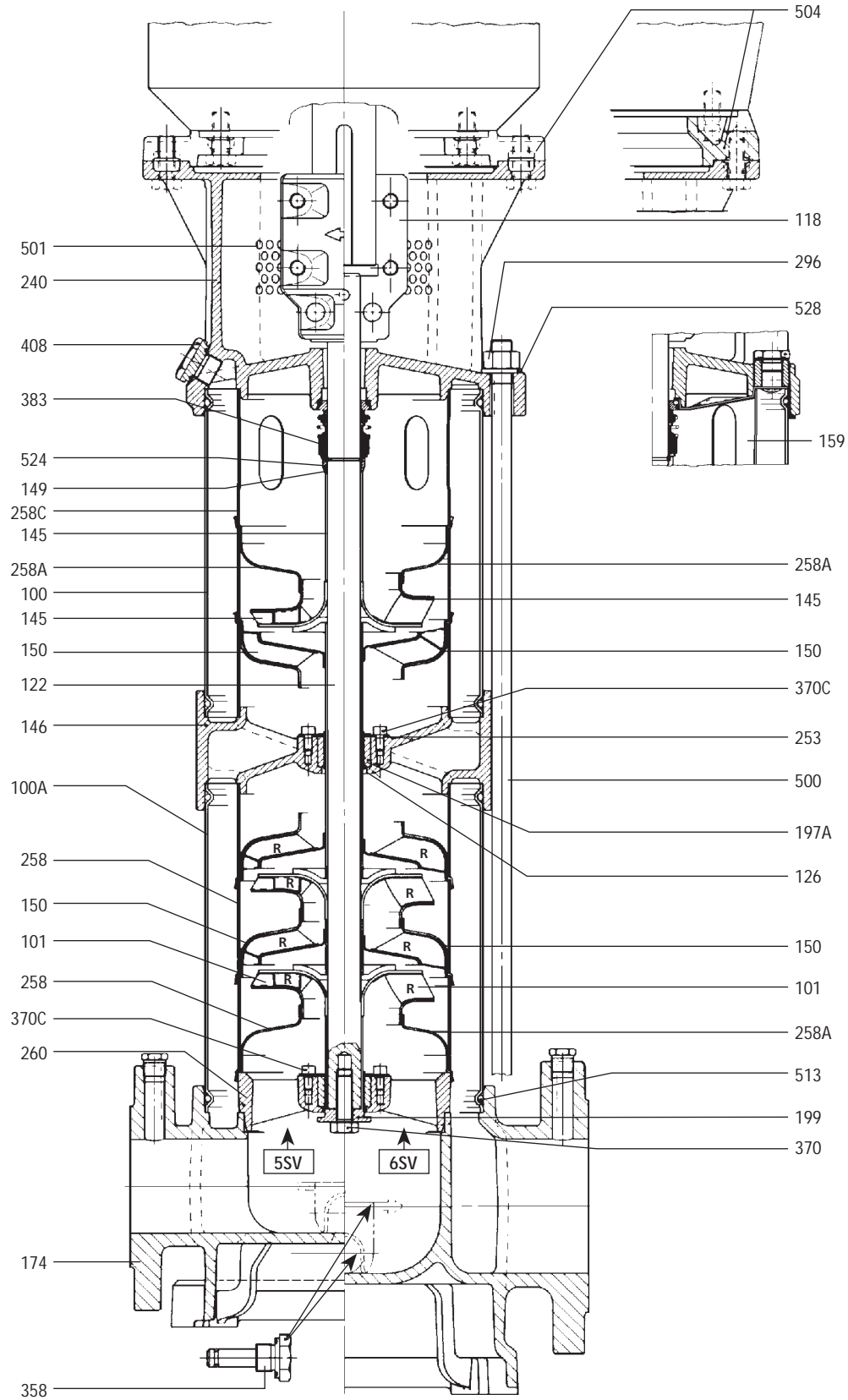
NOTE: Stages 12-16 are available in 50 Hz only.

5SV AND 6SV WITHOUT CROSSOVER



5SV AND 6SV WITHOUT CROSSOVER

Item No.	Part Name	Number of Stages			
		2	3	4	
240	Motor adapter	See motor adapter chart page 13			
504	Adapting flange (motor mounting)				
501	Coupling guard - old snap in	4L289			
	Coupling guard - new with screws	4L453			
122	Shaft assembly includes items 149, 199, 370, 524 and coupling pin	Type B	4L290	4L291	4L292
		Type C	4L297	4L298	4L299
126	Shaft sleeve	4L287			
100	Casing upper	Type B	1L424	1L425	1L426
		Type D	1L430	1L431	1L432
513	O-ring casing	5L42 Viton	5L95 EPR		
174	Pump body	5SV Type B	1L418		1L419
		5SV Type D	1L421		
		6SV Type B	1L420		
		6SV Type D	1L423		
197A	Bushing	7L366			
253	Bearing retainer	4L319			
370C	Bearing fixing screw	13L65			
260	Lower support	Type B	4L318		
		Type D	4L317		
159	Seal housing (Type D only)	1L436			
383	Mechanical seal with washer	See optional seal table on page 1			
524	Split ring	4L311			
149	Split ring cover	4L288			
258	Final spacer	4L285			
258	Stage spacer	4L286			
150	Right hand diffuser	5SV	3L30		
		6SV	3L31		
258A	1st stage bowl	5SV	7L367		
		6SV	7L368		
101	Impeller right hand	5SV	2L240		
		6SV	2L260		
443A	Impeller spacer	4L284			
199	Impeller fixing washer	13L112			
370	Impeller fixing screw	13L109			
500	Tie rod with nuts and washer	4L304	4L305	4L306	
296	Nut tie rod	13L110			
528	Washer tie rod	13L111			
118	Coupling complete	See coupling chart on page 3			
408	Fill plug with o-ring	Type B	6L22 Viton	6L28 EPR	
		Type D	6L19 Viton	6L25 EPR	
358	Drain plug with o-ring	Type B	6L21 Viton	6L27 EPR	
		Type D	6L21 Viton	6L27 EPR	
—	Motor assembly shim	4L242			
—	Filling funnel	4L247			



5SV AND 6SV WITH CROSSOVER

Item No.	Part Name	Number of Stages									
		5	6	7	8	9	10	11	12		
240	Motor adapter	See motor adapter chart page 13									
504	Adapting flange (motor mounting)										
501	Coupling guard - old snap in	4L289									
	Coupling guard - new with screws	4L453									
122	Shaft assembly includes items 149, 199, 370, 524 and coupling pin	Type B	4L293	4L294	4L295	4L296	4L345	4L346	4L347	4L348	
		Type D	4L300	4L301	4L302	4L303	4L349	4L350	4L351	4L352	
126	Shaft sleeve	4L287									
100	Casing upper	Type B	1L427	1L427	1L428	1L428	1L429	1L429	1L521	1L521	
		Type D	1L433	1L433	1L434	1L434	1L435	1L435	1L523	1L523	
	Casing lower	Type B	1L427	1L428	1L428	1L429	1L429	1L521	1L521	1L522	
		Type D	1L433	1L434	1L434	1L435	1L435	1L523	1L523	1L524	
146	Intermediate support	Type B	4L315								
		Type D	4L316								
513	O-ring casing	5L42 Viton	5L95 EPR								
174	Pump body	5SV Type B	1L419								
		5SV Type D	1L422								
		6SV Type B	1L420	1L419							
		6SV Type D	1L423	1L422							
197A	Bushing	7L366									
253	Bearing retainer	4L319									
370C	Bearing fixing screw	13L65									
260	Lower support	Type B	4L318								
		Type D	4L317								
159	Seal housing (Type D only)	1L436									
383	Mechanical seal with washer	See optional seal table on page 1									
524	Split ring	4L311									
149	Split ring cover	4L288									
258	Final spacer	4L285									
258	Stage spacer	4L286									
150	Right hand diffuser	5SV	3L30								
		6SV	3L31								
	Left hand diffuser	5SV	3L32								
		6SV	3L33								
258A	1st stage bowl	5SV	7L367								
		6SV	7L368								
101	Impeller right hand	5SV	2L240								
		6SV	2L260								
145	Impeller left hand	5SV	2L250								
		6SV	2L270								
443A	Impeller spacer	4L284									
199	Impeller fixing washer	13L112									
370	Impeller fixing screw	13L109									
500	Tie rod with nuts and washer	4L307	4L308	4L309	4L310	4L328	4L329	4L330	4L331		
296	Nut tie rod	13L110									
528	Washer tie rod	13L111									
118	coupling complete	See coupling chart on page 3									
408	Fill plug with o-ring	Type B	6L22 Viton	6L28 EPR							
		Type D	6L19 Viton	6L25 EPR							
358	Drain plug with o-ring	Type B	6L21 Viton	6L27 EPR							
		Type D	6L21 Viton	6L27 EPR							
—	Motor assembly shim	4L242									
—	Filling funnel	4L247									

NOTE: Stages 9-12 are available in 5SV 50 Hz only.

OPTIONAL VICTAULIC MATING COMPONENTS

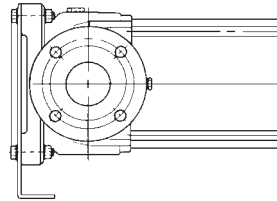
Size	Victaulic Coupling	Victaulic Threaded Coupling
1SV	4L194	4L196
2SV		
3SV	4L195	4L197
4SV		
5SV	Not Available	
6SV		

REPLACEMENT O-RING FOR OVAL FLANGE ASSEMBLY

Size	O-Ring Repair Part Number
1SV	4L170
2SV	
3SV	4L171
4SV	

OPTIONAL HORIZONTAL MOUNTING FOOT

Size	Inlet Location	Part Number
1SV	When inlet flange is horizontal	9L92
1SV	When inlet flange is vertical	9L93
2SV	When inlet flange is horizontal	9L92
2SV	When inlet flange is vertical	9L93
3SV	When inlet flange is horizontal	9L90
3SV	When inlet flange is vertical	9L91
3SV	When inlet flange is horizontal	9L90
3SV	When inlet flange is vertical	9L91
5SV	When inlet flange is horizontal	9L91
6SV	When inlet flange is horizontal	9L91



MOTOR ADAPTER AND ADAPTER RINGS TABLE

PUMP	ODP-TEFC	ODP-TEFC	ODP-TEFC	ODP	ODP	TEFC	ODP	TEFC	ODP	TEFC	TEFC	ODP	TEFC	ODP	TEFC	ODP				
	56C	184TCH	184TC	213TC	215TC		254TC		256TC		284TC					286TC				
	HP 0.5 to 3	HP 5 to 7.5	HP 5 to 7.5	HP 10	HP 15	HP 10	HP 20	HP 15	HP 25	HP 20	HP 25	HP 30	HP 30	HP 40	HP 40	HP 50				
1SV	Motor Adapter 1L383		Motor Adapter 1K327																	
2SV																				
3SV	Motor Adapter 1L384		Motor Adapter 1K328	Adapter Flange 1L386																
4SV				Motor Adapter 1L385																
5SV				Adapter Flange 1L386					Adapter Flange 1L439											
6SV				Motor Adapter Iron = 1L437 Stainless = 1L438					Horizontal Mounted Iron = 1L525 Stainless = 1L526					Motor Adapter Iron = 1L437 Stainless = 1L438					Horizontal Mounted Iron = 1L525 Stainless = 1L526	

