



Wear Ring Replacement Table

(Waterous Centrifugal Fire Pumps)

PUMP MODEL	ORIGINAL IMPELLER		ORIGINAL WEAR RING		NEW UNDERSIZE WEAR RING PART NO.	REWORK DIAMETER OF IMPELLER HUB
	PART NO.	HUB DIA.	PART NO.	INSIDE DIA.		
CA, CA-1, CA-1A, CA-1B	7309-F	4.623/4.621	5753	4.634/4.636	50832-25 50832-50 50832-75	4.598/4.595 4.573/4.570 4.548/4.545
CA-3	30036-RA, FA	3.7460/3.7455	6031 (2)	3.7520/3.7545	6031-25 6031-50 6031-75	3.720/3.718 3.695/3.693 3.670/3.668
CA-4 HCA-4 HPCA-4	7014 (1) 7015 (1)	3.7460/3.7445	5026 (2)	3.7520/3.7545	50377-25 50377-50 50377-75	3.720/3.718 3.695/3.693 3.670/3.668
	30036-RA, FA	3.7460/3.7455	6031 (2) (wear rings with center bearing)	3.7520/3.7545	6031-25 6031-50 6031-75	3.720/3.718 3.695/3.693 3.670/3.668
	7207-F (1) 7208-F (1)	4.3125/4.3110	5110 (2)	N/A	50390-25 50390-50 50390-75	4.288/4.285 4.263/4.260 4.238/4.235
	7207-F (1) 7208-F (1)	4.3125/4.3110	50037	4.321/4.323	50392-25 50392-50 50392-75	4.288/4.285 4.263/4.260 4.238/4.235
	7395-F (1) 7396-F (1)	3.7430/3.7415	50038	3.752/3.754	50391-25 50391-50 50391-75	3.717/3.714 3.692/3.689 3.667/3.664
	7441 (1) 7442 (1)	2.492/2.491	5706	2.506/2.507	No undersize wear ring	
CA-5 HPCA-5	7425-F (1) 7426-F (1)	4.3750/4.3735	5921	4.384/4.386	50442-25 50442-50 50442-75	4.351/4.348 4.326/4.328 4.301/4.298
	7372-L 7373-R (1)	2.485/2.483	5706	2.506/2.507	No undersize wear ring	
CD-1 CD-1000 CD-1250	7104-2F (1) 7105-2F (1)	4.620/4.618	5563-1F	4.628/4.630	50440-25 50440-50 50440-75	4.595/4.592 4.570/4.567 4.545/4.542
	7104-1F (1) 7105-1F (1)	4.620/4.618	5788 (wear rings with center bearing)	4.628/4.630	5788-25 5788-50 5788-75	4.595/4.592 4.570/4.567 4.545/4.542
	30248-58L 30248-58R	4.8085/4.8075	5563-2F	4.818/4.820	50441-25 50441-50 50441-75	4.784/4.781 4.759/4.756 4.734/4.731
CD-3	7214-F (1) 7215-F (1)	4.8085/4.8075	5563-2F	4.818/4.820	50441-25 50441-50 50441-75	4.784/4.781 4.759/4.756 4.734/4.731
	70114 70115	4.921/4.920	5563-3F	4.930/4.932	51255-25 51255-50 51255-75	4.896/4.893 4.871/4.868 4.846/4.843

See page 9 for notes.

WEAR RING REPLACEMENT TABLE

(Waterous Centrifugal Fire Pumps)

PUMP MODEL	ORIGINAL IMPELLER		ORIGINAL WEAR RING		NEW UNDERSIZE WEAR RING PART NO.	REWORK DIAMETER OF IMPELLER HUB
	PART NO.	HUB DIA.	PART NO.	INSIDE DIA.		
CD-4	7920 7921	6.121/6.120	50399	6.130/6.132	50399-25 50399-50 50399-75	6.096/6.094 6.071/6.096 6.046/6.044
	70151 70152 70151-T (1) (3) 70152-T (1) (3)	6.500/6.499 & 6.440/6.439	50683	6.509/6.511 & 6.449/6.451	50683-25 <hr/> 50683-50	6.415/6.413 & 6.475/6.473 <hr/> 6.390/6.388 & 6.450/6.448
CE-2000	30264-L (1) 30264-R (1)	6.121/6.120	20177 (2)	N/A	50399-25 50399-50 50399-75	6.096/6.094 6.071/6.069 6.046/6.044
CF-1, DCF-1 (Aluminum Body)	30248-58LCA (1) 30248-58RCA (1)	4.8085/4.8075	5563NI-2F (2)	4.8165/4.8195	No undersize wear rings	
	7104-3FCA (1) 7105-3FCA (1)	4.620/4.618	5563NI-1F (2)	4.628/4.630		
CF-1, DCF-1 (Iron or Bronze Body)	30248-58L 30248-58R	4.8085/4.8075	5563-2F	4.818/4.820	50441-25 50441-50 50441-75	4.784/4.781 4.759/4.756 4.734/4.731
	7104-1F (1) 7104-1F (1)	4.620/4.618	5563-1F	4.628/4.630	50440-25 50440-50 50440-75	4.595/4.592 4.570/4.567 4.545/4.542
CF-3	7309-F	4.623/4.621	No wear rings			
CG E400	7309F 70690	4.623/4.621	61269	4.631/4.633	61269-25 61269-50 61269-75	4.598/4.596 4.573/4.571 4.548/4.546
	70423 (1) 70689 (1)	5.5015/5.4995	61029	5.511/5.512	61029-25 61029-50 61029-75	5.476/5.474 5.451/5.449 5.426/5.424
	70423-T (3) 70689-T (1) (3)	5.5015/5.4965				
	71887 71899	5.500/5.498	62363 62364	5.517/5.519	62363-25 62364-25 <hr/> 62363-50 62364-50	5.475/5.473 <hr/> 5.450/5.448
71887-T (3) 71899-T (1) (3)	5.500 (max.)	62363-75 62364-75				
CH-1	8657 (1)	8.250/8.249	60938 (2)	N/A	No undersize wear rings	
CH-2, CH-2A (Iron or Bronze Body)	70469 (1) 70640 (1)	5.5015/5.4995	61029	5.511/5.512	61029-25 61029-50 61029-75	5.476/5.474 5.451/5.449 5.426/5.424
CH-2, CH-2A (Aluminum Body)	70469-CA (1) 70640-CA (1)	5.5015/5.4995	61029-CA (2)	5.511/5.512	61029-25CA 61029-50CA 61029-75CA	5.476/5.474 5.451/5.449 5.426/5.424
CH-3	80075-CA	5.4990/5.4970 5.4950/5.4930	60879-CA	5.508/5.509	60879-25CA 60879-50CA 60879-75CA	5.474/5.472 5.449/5.447 5.424/5.422
CHD-4 CHK-4	80075	5.4990/5.4970 5.4950/5.4930	60879	5.508/5.509	60879-25 60879-50 60879-75	5.474/5.472 5.449/5.447 5.424/5.422

See page 9 for notes.

WEAR RING REPLACEMENT TABLE

(Waterous Centrifugal Fire Pumps)

PUMP MODEL	ORIGINAL IMPELLER		ORIGINAL WEAR RING		NEW UNDERSIZE WEAR RING PART NO.	REWORK DIAMETER OF IMPELLER HUB
	PART NO.	HUB DIA.	PART NO.	INSIDE DIA.		
CJ CJD	70948 70949 70948-T (1) (3) 70949-T (1) (3)	5.5015/5.4965	60879	5.508/5.509	60879-25 60879-50 60879-75	5.476/5.473 5.451/5.448 5.426/5.423
	71050 (1) 71051 (1)	6.121/6.119	50399	6.130/6.132	50399-25 50399-50 50399-75	6.096/6.093 6.071/6.068 6.046/6.043
	71050-T (3) 71051-T (1) (3)	6.121/6.116				
	71052 (1) 71053 (1)	6.121/6.119				
	71052-T (1) (3) 71053-T (1) (3)	6.121/6.116				
	71091 71092	6.121/6.119	50399	6.130/6.132	50399-25 50399-50 50399-75	6.096/6.093 6.071/6.068 6.046/6.043
71091-T (3) 71092-T (3)	6.121/6.116					
71649-1 71650-1	A-6.375/6.373 B-6.425/6.423	62119-1	A-6.384/6.386 B-6.442/6.444	62119-1-25	A-6.350/6.348 B-6.409/6.407	
71649-1T (3) 71650-1T (3)	A-6.375 max. B-6.434 max.			62119-1-50	A-6.325/6.323 B-6.384/6.382	
				62119-1-75	A-6.300/6.298 B-6.359/6.357	
CL	70980 70981	4.623/4.621	5753	4.634/4.636	50832-25 50832-50 50832-75	4.598/4.595 4.573/4.570 4.548/4.545
			61642	4.634/4.636	61642-25 61642-50 61642-75	4.598/4.595 4.573/4.570 4.548/4.545
	71459	4.623/4.621	5753	4.634/4.636	50832-25 50832-50 50832-75	4.598/4.595 4.573/4.570 4.548/4.545
CM Prior to 3/1/94)	70328 70329 70418 70419	4.3125/4.3105	61009	4.3215/4.3235	61009-25 61009-50 61009-75	4.287/4.284 4.262/4.259 4.237/4.234
	71047 (1) 70269 (1) 70270 (1)	5.501/5.500	60879	5.508/5.509	60879-25 60879-50 60879-75	5.476/5.473 5.451/5.448 5.426/5.423
70269-T (3) 70270-T (3) 70948 70949 70948-T (1) (3) 70949-T (1) (3)	5.5015/5.4965					

See page 9 for notes.

WEAR RING REPLACEMENT TABLE

(Waterous Centrifugal Fire Pumps)

PUMP MODEL	ORIGINAL IMPELLER		ORIGINAL WEAR RING		NEW UNDERSIZE WEAR RING PART NO.	REWORK DIAMETER OF IMPELLER HUB
	PART NO.	HUB DIA.	PART NO.	INSIDE DIA.		
CM (Prior to 3/1/94) (continued)	71390 (1) 71391 (1)	6.121/6.119				
	71390-T (1) (3) 71391-T (1) (3)	6.121/6.116	61824	6.130/6.132	61824-25 61824-50 61824-75	6.096/6.094 6.071/6.069 6.046/6.044
	71439 (1) 71440 (1) 71439-T (1) (3) 71440-T (1) (3)	6.121/6.119 6.121/6.116				
	71402-T (1) (3) 71403-T (1) (3)	A-6.121/6.116 B-6.171/6.166	61826	A-6.130/6.132 B-6.188/6.190	61826-25 61826-50 61826-75	A-6.096/6.091 B-6.146/6.141 A-6.071/6.066 B-6.121/6.116 A-6.046/6.041 B-6.096/6.091
	71477 (1) 71478 (1) 71477-T (1) (3) 71478-T (1) (3)	5.501/5.500 5.5015/5.4965	71476	5.508/5.509	71476-25 71476-50 71476-75	5.476/5.473 5.451/5.448 5.426/5.423
	71537 71538 71537-T (3) 71538-T (3)	5.501/5.500 5.5015/5.4965	71476 (Iron Bodies) 62344 (Bronze Bodies)	5.508/5.509 5.508/5.512	71476-25 71476-50 71476-75 62344-25 62344-50 63244-75	5.476/5.473 5.451/5.448 5.426/5.423 5.476/5.473 5.451/5.448 5.426/5.423
	71643 71644 71660 71661 71643-T (3) 71644-T (3) 71660-T (1) (3) 71661-T (3)	5.501/5.500 5.5015 max.	60879	5.508/5.509	60879-25 60879-50 60879-75	5.476/5.473 5.451/5.448 5.426/5.423
	71796 71797 71796-T (3) 71797-T (3)	5.501/5.498 5.5015 max.	71798 (Iron Bodies) 62343 (Bronze Bodies)	5.508/5.512 5.508/5.512	71798-25 71798-50 71798-75 62343-25 62343-50 63243-75	5.476/5.473 5.451/5.448 5.426/5.423 5.476/5.473 5.451/5.448 5.426/5.423
	71649-T (3) 71650-T (3)	A-6.375 max. B-6.432 max.	62119	A-6.384/6.386 B-6.442/6.444	62119-25 62119-50 62119-75	A-6.350/6.348 B-6.409/6.407 A-6.325/6.323 B-6.384/6.382 A-6.300/6.298 B-6.359/6.357

See page 9 for notes.

WEAR RING REPLACEMENT TABLE
(Waterous Centrifugal Fire Pumps)

PUMP MODEL	ORIGINAL IMPELLER		ORIGINAL WEAR RING		NEW UNDERSIZE WEAR RING PART NO.	REWORK DIAMETER OF IMPELLER HUB
	PART NO.	HUB DIA.	PART NO.	INSIDE DIA.		
CMH (High pressure impeller)	7372-L (1) 7373-R (1) 71671 71672 71405 (1) 71670	2.485/2.483	5706	2.506/2.507	No undersize wear ring	
CM (After 3/1/94)	71537 71538	5.500 min.	72472	5.508/5.512	72472-25 72472-50 72472-75	5.476/5.473 5.451/5.448 5.426/5.423
	71537-T 71538-T	5.494 min.				
	71796 71797	5.498 min.	72403	5.508/5.512	72403-25 72403-50 72403-75	5.476/5.473 5.451/5.448 5.426/5.423
71796-T 71797-T	5.494 min.					
CMU (After 3/1/94)	71649-T 71650-T	A - 6.375 B - 6.432	72407	A-6.384/6.386 B-6.442/6.444	72407-25 <hr/> 72407-50 <hr/> 72407-75	A - 6.350/6.348 B - 6.407/6.405 <hr/> A - 6.325/6.323 B - 6.382/6.380 <hr/> A - 6.300/6.298 B - 6.357/6.355
CP-1	70224 70481	1.9930/1.9910	50716	2.005/2.007	50716-25	1.968/1.966
	70603 70604	2.874/2.872	61436 61444	2.885/2.887	61436-25 61444-25	2.849/2.847
	61437 (1) 61438 (1) 72244 72245	2.875/2.874			61436-50 61444-50	2.824/2.822
		61436-75 61444-75			2.799/2.797	
CP-2, CP-2L	70476 (1) 70485	3.745/3.743	No wear rings			
	70476-AL (1) 70485-AL (1)	3.741/3.739				
	70823 70824 70966 70967	3.748/3.747	61363	3.758/3.760	61363-25 61363-50 61363-75	3.723/3.721 3.698/3.696 3.673/3.671

See page 9 for notes.

WEAR RING REPLACEMENT TABLE

(Waterous Centrifugal Fire Pumps)

PUMP MODEL	ORIGINAL IMPELLER		ORIGINAL WEAR RING		NEW UNDERSIZE WEAR RING PART NO.	REWORK DIAMETER OF IMPELLER HUB
	PART NO.	HUB DIA.	PART NO.	INSIDE DIA.		
CP-3	70603 70604	2.874/2.872	61191 (8/58 to 3/59)	2.885/2.887	61191-25 61191-50 61191-75	2.849/2.847 2.824/2.822 2.799/2.797
	70603 70604 (8/58 to 3/62)		61221 (3/59 to 10/61)	2.885/2.887	61221-25 61221-50 61221-75	
			61436 (From 10/61)	2.885/2.887	61436-25 61436-50 61436-75	
	70594 70595 (8/58 to 3/59)	3.745/3.743	No wear ring	N/A		
	70781 70782 (1) (12/59 to 3/60)	3.748/3.747	61363	3.758/3.760	61363-25 61363-50 61363-75	3.723/3.722 3.698/3.697 3.673/3.672
	70809 70810 (1) (3/60 to 10/61)					
70966 70967 70966-1 70967-1						
61437 (1) 61438 (1) 72244-1 72245-1	2.875/2.874	61436	2.885/2.887	61436-25 61436-50 61436-75	2.850/2.849 2.825/2.824 2.800/2.799	
CP-4	71076-A 71076-B	2.0600/2.0585 2.189/2.188	61578 (stepped hub)	2.066/2.067 2.195/2.196	61578-25 61578-15 (stepped hub)	2.035/2.034 2.164/2.163 2.045/2.044 2.174/2.173
	V1725 (1) V1742 (1) 71287 71288	2.056/2.057	No wear rings			
CR	81567 82203	7.501/7.499	72346	7.520/7.522	72346-25 72346-50	7.476/7.474 7.451/7.449
CRU	83118	8.575/8.572	73192	8.593/8.596	73192-25 73192-50 73192-75	8.550/8.547 8.525/8.522 8.500/8.497

See page 9 for notes.

WEAR RING REPLACEMENT TABLE

(Waterous Centrifugal Fire Pumps)

PUMP MODEL	ORIGINAL IMPELLER		ORIGINAL WEAR RING		NEW UNDERSIZE WEAR RING PART NO.	REWORK DIAMETER OF IMPELLER HUB
	PART NO.	HUB DIA.	PART NO.	INSIDE DIA.		
CS CSU (Prior to 3/1/94)	71610 (1) <hr/> 71610-T (3)	5.501/5.500 <hr/> 5.5015/5.4965	62058	5.508/5.509	62058-25 62058-50 62058-75	5.476/5.473 5.451/5.448 5.426/5.423
	71799 <hr/> 71799-T (3)	5.501/5.498 <hr/> 5.5015 max.	71800	5.508/5.512	71800-25 71800-50 71800-75	5.476/5.473 5.451/5.448 5.426/5.423
	71517 (1) 71517-T (1) (3) <hr/> 71548 (1) 71548-T (1) (3)	A-6.121/6.116 B-6.171/6.161 <hr/> A-6.121/6.116 B-6.171/6.161	61826	A-6.130/6.132 B-6.188/6.190	61826-25 <hr/> 61826-50 <hr/> 61826-75	A-6.096/6.091 B-6.146/6.141 <hr/> A-6.071/6.066 B-6.121/6.116 <hr/> A-6.046/6.041 B-6.096/6.091
	71651-T 71651-1T (3) 81416-T (1) (3)	A-6.375 max. B-6.432 max.	62119	A-6.384/6.386 B-6.442/6.444	62119-25 <hr/> 62119-50 <hr/> 62119-75	A-6.350/6.348 B-6.409/6.407 <hr/> A-6.325/6.323 B-6.384/6.382 <hr/> A-6.300/6.298 B-6.359/6.357
	81621-T (3)	A-6.375 max. B-6.434 max.	62119-1	A-6.384/6.386 B-6.442/6.444	62119-1-25 <hr/> 62119-1-50 <hr/> 62119-1-75	A-6.350/6.348 B-6.409/6.407 <hr/> A-6.325/6.323 B-6.384/6.382 <hr/> A-6.300/6.298 B-6.359/6.357
	81653-T (3) 81752-T 81882-T	A-6.375 max. B-6.434 max.	62843	A-6.384/6.386 B-6.442/6.444	62843-25 <hr/> 62843-50 <hr/> 62843-75	A-6.350/6.348 B-6.409/6.407 <hr/> A-6.325/6.323 B-6.384/6.382 <hr/> A-6.300/6.298 B-6.359/6.357
	81357-T (3)	5.313 max.	72087	5.320/5.325	72087-25 72087-50 72087-75	5.288/5.286 5.263/5.261 5.238/5.236
	CSH (High pressure impeller)	7372-L (1) 7373-R (1) 71671 71672 71405 (1) 71670	2.485/2.483	5706	2.506/2.507	No undersize wear ring
CS (After 3/1/94)	71799	5.498 min.	72409	5.508/5.512	72409-25	5.476/5.473
	71799-T	5.494 min.			72409-50	5.451/5.448
	81357	5.311 min.	72430	5.320/5.325	72409-75	5.426/5.423
	81357-T	5.307 min.			72430-25	5.288/5.286
					72430-50	5.263/5.261
					72430-75	5.238/5.236

See page 9 for notes.

WEAR RING REPLACEMENT TABLE

(Waterous Centrifugal Fire Pumps)

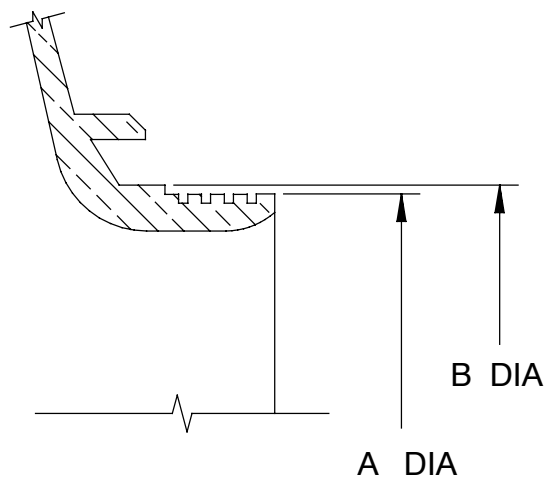
PUMP MODEL	ORIGINAL IMPELLER		ORIGINAL WEAR RING		NEW UNDERSIZE WEAR RING PART NO.	REWORK DIAMETER OF IMPELLER HUB	
	PART NO.	HUB DIA.	PART NO.	INSIDE DIA.			
CSU (After 3/1/94)	71651-T	A - 6.370 min. B - 6.426 min.	72474	A-6.384/6.386 B-6.442/6.444	72474-25	A - 6.350/6.348 B - 6.407/6.405	
					72474-50	A - 6.325/6.323 B - 6.382/6.380	
	81882-T	A - 6.367 min. B - 6.417 min.	72474	A-6.384/6.386 B-6.442/6.444	72474-25	A - 6.350/6.348 B - 6.400/6.398	
					72474-50	A - 6.325/6.323 B - 6.375/6.373	
CX	71830 71831	6.375/6.373	62298 62299	6.384/6.386	62298-25 62299-25	6.350/6.345	
					62298-50 62299-50	6.325/6.320	
	71830-T (3) 71831-T (3)	6.375 max.	62564	6.384/6.686	62298-75 62299-75	6.300/6.295	
	71831-T (3)	6.370 max.			62564-25 62564-50 62564-75	6.345/6.343 6.320/6.318 6.295/6.293	
	71888 71896	6.750/6.748	62420	6.766/6.768	62420-25 62420-50 62420-75	6.725/6.723 6.700/6.673 6.675/6.673	
	71888-T (3) 71896-T (3)	6.750 max.					
	CZ	81650 82204	6.030/6.028	62816	6.409/6.051	62816-25 62816-50 62816-75	6.005/6.003 5.980/5.978 5.955/5.953
						CZU	81797 82192
82574	7.151/7.149			7.126/7.124 7.101/7.099 7.076/7.074			
S100	82031 82031-T (3) 81967-T (3)	7.250 / 7.248	72836	7.266/7.268	72836-25 72836-50 72836-75	7.225 / 7.223 7.200 / 7.198 7.715 / 7.173	

See page 9 for notes.

WEAR RING REPLACEMENT TABLE
(Waterous Centrifugal Fire Pumps)

NOTES

1. These impellers are no longer available. Contact Waterous Company for replacement
2. These standard wear rings are no longer available. Contact Waterous Company for availability of undersize wear rings.
3. Clearance may be restored by replacing original wear rings. Contact Waterous Company if necessary to rework.



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REWORK DIAMETER OF IMPELLER HUB
CJ, CM & CS SERIES PUMPS

WEAR RING REPLACEMENT TABLE

(Waterous Centrifugal Fire Pumps)

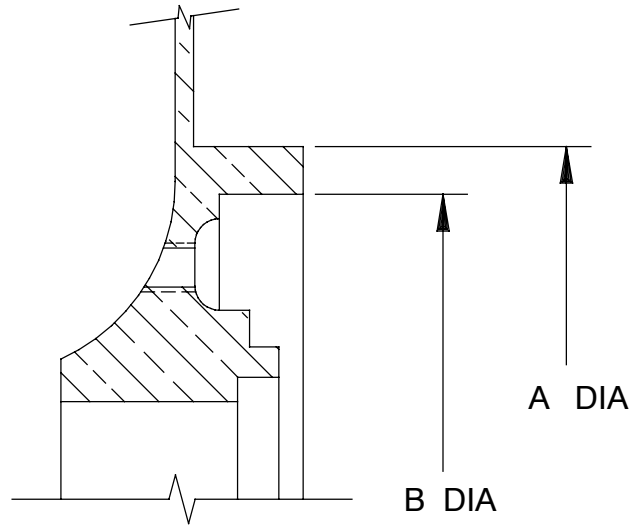
PUMP MODEL	ORIGINAL IMPELLER		ORIGINAL WEAR RING		NEW UNDERSIZE WEAR RING PART NO.	REWORK DIAMETER OF IMPELLER HUB
	PART NO.	HUB DIA.	PART NO.	INSIDE DIA.		
Floto	61973	Internal bushing - no wear ring used				
	71316	No wear ring used				
PB10 PB11 PB13 P100 E500	71710 (1)	A-4.491/4.490 B-3.999/4.000	62221	A-4.508/4.508 B-3.983/3.982	62221-25 <hr/> 62221-50	A-4.466/4.465 B-4.024/4.025 <hr/> A-4.441/4.440 B-4.049/4.050
	71724 71894 72397	A-3.616/3.615 B-3.124/3.125	62220	A-3.632/3.633 B-3.108/3.107	62220-25 <hr/> 62220-50	A-3.591/3.590 B-3.149/3.150 <hr/> A-3.566/3.565 B-3.174/3.175
	71889 82381	2.277/2.279	62314 63196	2.292/2.294	No undersize wear rings	
PB18 P200	71894 71954 72397	A-3.616/3.615 B-3.124/3.125	62220	A-3.632/3.633 B-3.108/3.107	62220-25 <hr/> 62220-50	A-3.591/3.590 B-3.149/3.150 <hr/> A-3.566/3.565 B-3.174/3.175
	71889	2.277/2.279	62314	2.292/2.294	No undersize wear rings	
SV45 E200 E500	71819	4.623/4.621	5753	4.634/4.636	50832-25 50832-50 50832-75	4.598/4.595 4.573/4.570 4.548/4.545
	61438 72245	2.875/2.874	61436/61444	2.885/2.887	61436-25 61444-25 <hr/> 61436-50 61444-50 <hr/> 61436-75 61444-75	2.849/2.847 <hr/> 2.824/2.822 <hr/> 2.799/2.797
	70966	3.748/3.747	61363	3.758/3.760	61363-25 61363-50 61363-75	3.723/3.721 3.698/3.696 3.673/3.671

See page 11 for notes.

WEAR RING REPLACEMENT TABLE
(Waterous Centrifugal Fire Pumps)

NOTES

1. These impellers are no longer available. Contact Waterous Company for replacement



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REWORK DIAMETER OF IMPELLER HUB
PB10, PB11, PB13, PB18, P100 & P200 PORTABLE PUMPS