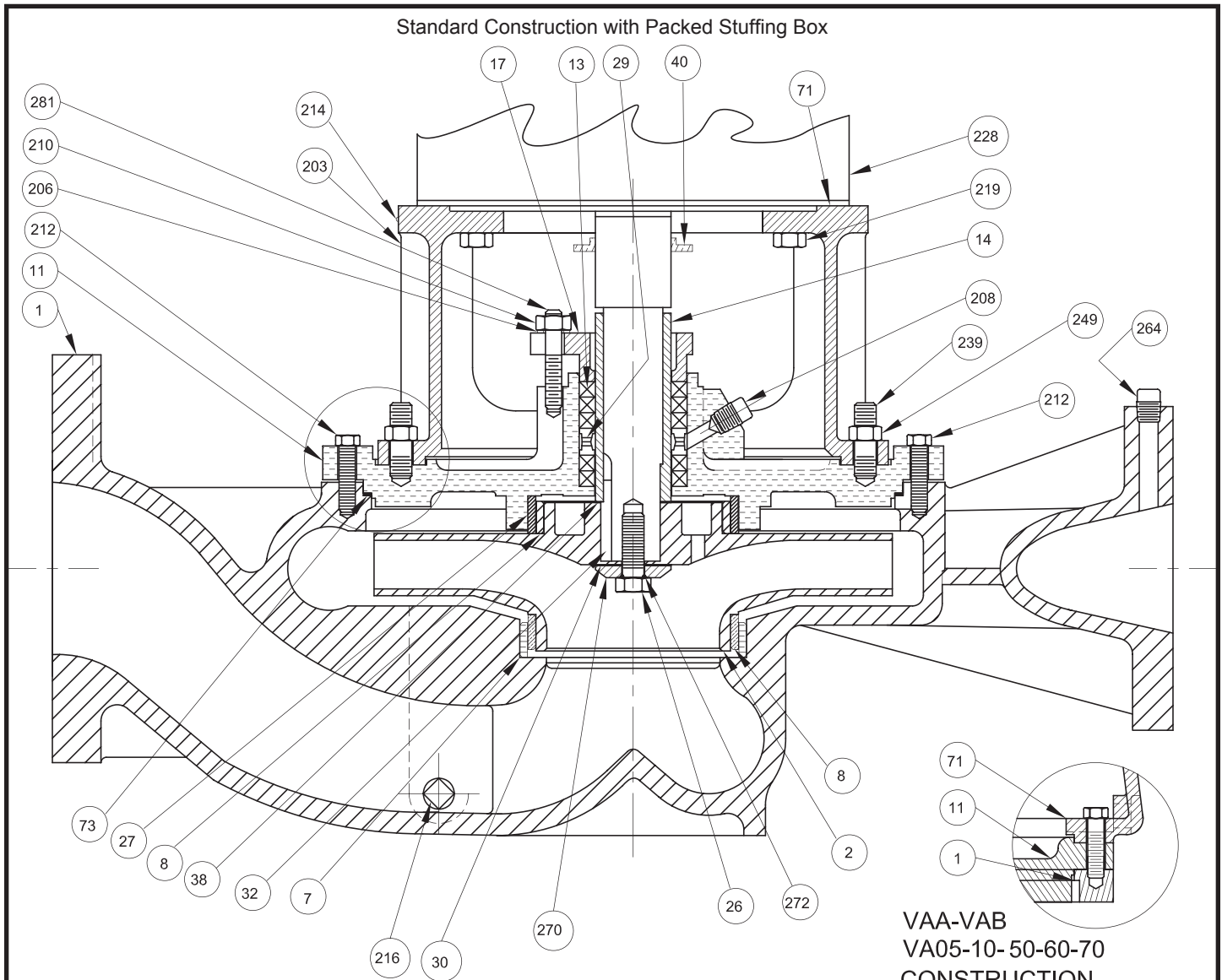


### Repair Parts



VAA-VAB  
VA05-10- 50-60-70  
CONSTRUCTION



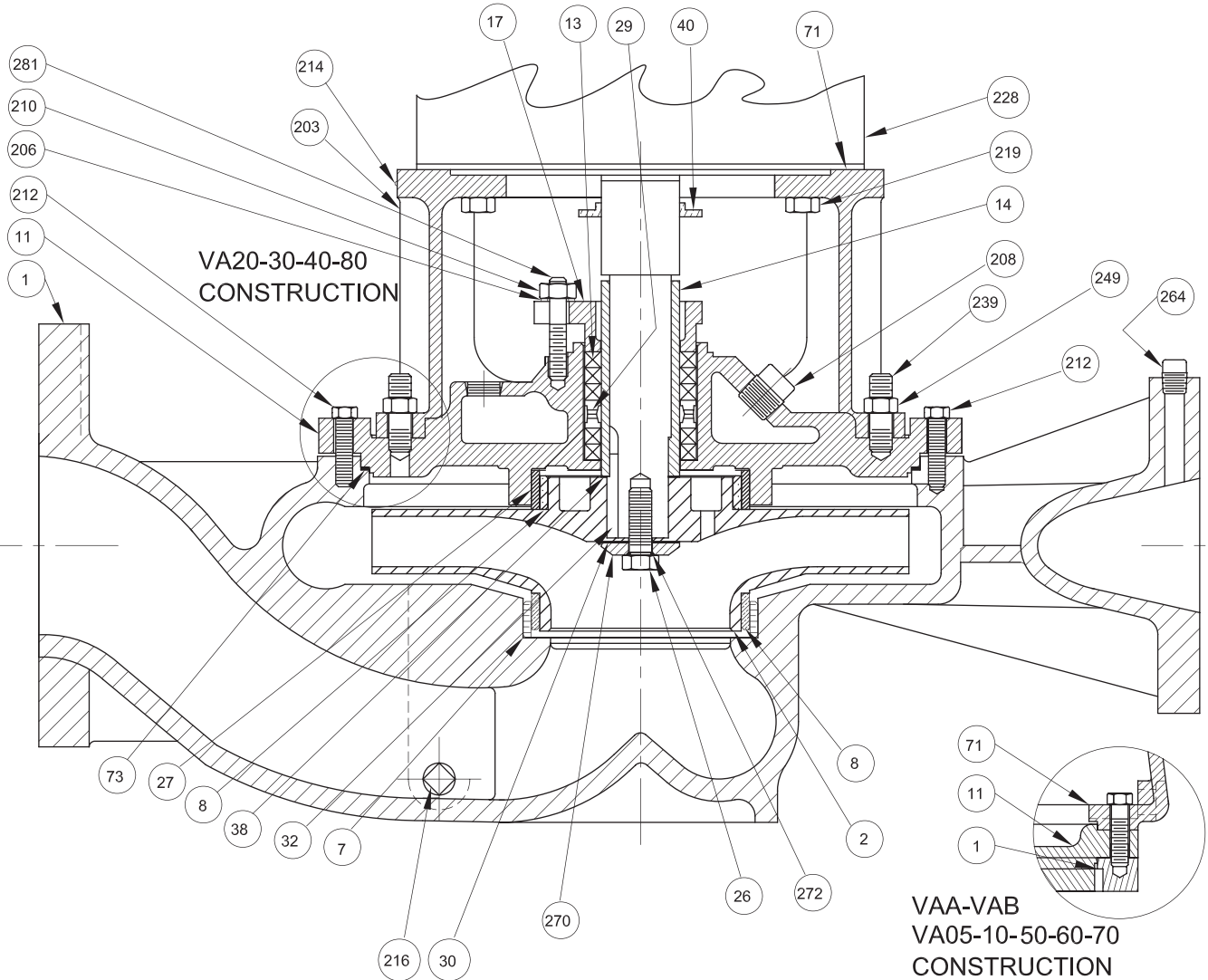
**WARNING:**  
CANCER AND REPRODUCTIVE HARM -  
WWW.P65WARNINGS.CA.GOV

Item No.	Name of Part	Item No.	Name of Part	Item No.	Name of Part
1	Casing	* 30	Impeller Washer Gasket	214	Drive Screw
2	Impeller	32	Impeller Key	216	Pipe Plug
* 7	Casing Wear Ring	* 38	Shaft Gasket	219	Cap Screw
* 8	Impeller Wear Rings (Opt.)	40	Deflector	228	Motor
11	Packing Box Cover	71	Adapter	239	Stud
* 13	Packing	* 73	Casing Gasket	249	Hex Nut
* 14	Shaft Sleeve	203	Nameplate	264	Pipe Plug
17	Split Gland	206	Split Gland Clip	270	Impeller Washer
* 26	Impeller Screw	208	Pipe Plug (2)	272	Impeller Screw O-Ring
* 27	Packing Box Wear Ring	210	Hex Nut	281	Gland Stud
29	Lantern Ring	212	Cap Screw	287	Jack Screw

\* Recommended spare parts

## Repair Parts

Optional Construction with Water Jacketed Stuffing Box



VA20-30-40-80  
CONSTRUCTION

VAA-VAB  
VA05-10-50-60-70  
CONSTRUCTION



**WARNING:**

CANCER AND REPRODUCTIVE HARM -  
WWW.P65WARNINGS.CA.GOV

Item No.	Name of Part	Item No.	Name of Part	Item No.	Name of Part
1	Casing	* 30	Impeller Washer Gasket	216	Pipe Plug
2	Impeller	32	Impeller Key	219	Cap Screw
* 7	Casing Wear Ring	* 38	Sleeve Gasket	228	Motor
* 8	Impeller Wear Rings (Opt.)	40	Deflector	239	Stud
11	Packing Box Cover	71	Adapter	249	Hex Nut
* 13	Packing	* 73	Casing Gasket	264	Pipe Plug
* 14	Shaft Sleeve	203	Nameplate	270	Impeller Washer
17	Split Gland	206	Split Gland Clip	* 272	Impeller Screw O-Ring
* 26	Impeller Screw	208	Pipe Plug (2)	281	Gland Stud
* 27	Packing Box Wear Ring	210	Hex Nut	287	Jack Screw
29	Lantern Ring	212	Cap Screw	297	Pipe Plug (2)
		214	Drive Screw	298	Thread Protector (2)

\* Recommended spare parts

**Repair Parts**

Item	Please Order By the Part No.  Name and Description	VAA-E 1½ x 1 x 6		VAB-E 3 x 1½ x 6		VA10-E 3 x 2 x 7¼	
		Part No.	Drawing No.	Part No.	Drawing No.	Part No.	Drawing No.
1	Casing with Plugs Cast Iron #8 Bronze 316 SS	0072434 0072435 0072436	41417 41417 41417	0072437 0072438 0072439	41418 41418 41418	0072443 0072444 0072445	41419 41419 41419
2	Impeller - ¾" Bore - Frame 143TC thru 215TCZ and 143JP thru 184JP Cast Iron #8 Bronze 316 SS	0066862 0066880 0066874	27521 27521 27521	0066898 0066916 0066910	27522 27522 27522	0066970 0066982 0066978	27253 27223 27523
	Impeller - ¾" Bore Frame 143TC thru 215TCZ and 143JP thru 184JP - with 2 wearing rings (optional) Cast Iron #8 Bronze 316 SS	0072467 0072468 0072469	27521 27521 27521	0072470 0072471 0072472	27522 27522 27522	0072476 0072477 0072478	27523 27523 27523
* 7	Casing Wear Ring Cast Iron #5 Bronze 316 SS	0068042 0068046 0068038	119086 119086 119086	0068090 0068094 0068086	119090 119090 119090	0068090 0068094 0068086	119090 119090 119090
* 8	Impeller Wearing Ring (Top) Cast Iron #8 Bronze 316 SS	0068054 0068058 0068050	119087 119087 119087	0068054 0068058 0068050	119087 119087 119087	0068078 0068082 0068074	119089 119089 119089
	Impeller Wear Ring (Bottom) Cast Iron #8 Bronze 316 SS	0068030 0068034 0068026	119085 119085 119085	0068078 0068082 0068074	119089 119089 119089	0068078 0068082 0068074	119089 119089 119089
11	Packing Box Cover - Standard Cast Iron Ductile Iron 316 SS	0072398 0072399 0072400	33565 33565 33565	0072398 0072399 0072400	33565 33565 33565	0072401 0072402 0072403	33812 33812 33812
	Packing Box Cover (Water Jacketed) Cast Iron Ductile Iron 316 SS	0072416 0072417 0072418	33566 33566 33566	0072416 0072417 0072418	33566 33566 33566	0072419 0072420 0072421	33814 33814 33814
	NOTE: All Packing Box Cover Assemblies include Plugs, Studs, and Nuts.						
* 13	Stuff. Box Packing Rings (5 Req'd) GAR 8913 JC1335 Pure Teflon Fibre Semi-Metallic - B110	0030713 0057153 0063453 0084298	- - - -	0030713 0057153 0063453 0084298	- - - -	0030713 0057153 0063453 0084298	- - - -
* 14	Shaft Sleeve 440C SS - Hardened 316 SS	0068198 0068197	119131 119131	0068198 0068197	119131 119131	0068198 0068197	119131 119131
17	Split Stuff. Box Gland 4140 Steel 316 SS	0057000 0057009	118075 118075	0057000 0057009	118075 118075	0057000 0057009	118075 118075
* 26	Impeller Screw - ¾" x 1" long 316 SS	0053313	-	0053313	-	0053313	-
* 27	Casing Wearing Ring Cast Iron #5 Bronze 316 SS	0068066 0068070 0068062	119088 119088 119088	0068066 0068070 0068062	119088 119088 119088	0068144 0068148 0068140	119079 119079 119079
29	Lantern Ring - Teflon (half - 2 Req'd)	0076639	119511	0076639	119511	0076639	119511
* 30	Impeller Washer Gasket - Teflon	0068362	116040	0068362	116040	0068362	116040
32	Impeller key - Steel	0068336	119150	0068336	119150	0068336	119150
* 38	Shaft Gasket - Teflon	0068369	113335	0068369	113335	0068369	113335
40	Deflector - Neoprene	0000707	18195	0000707	18195	0000707	18195
71	See Parts Page 82 - Adapter						
* 73	Casing Gasket - Durabla	0088146	118654	0088146	118654	0088147	118655

\* Recommended spare parts



# Parts for Fig. 3182

Industrial Section 38  
Bulletin 95

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## Repair Parts

Item	Please Order By the Part No.  Name and Description	VAA-E 1½ x 1 x 6		VAB-E 3 x 1½ x 6		VA10-E 3 x 2 x 7¼	
		Part No.	Drawing No.	Part No.	Drawing No.	Part No.	Drawing No.
206 212	Split Gland Clip - 316 SS (2 Req'd.) Cap Screws - ½" x 1½" long - for Items 1 - 11 - 71 Steel (8 Req'd.) 304 SS (8 Req'd.)	0047657	117918	0047657	117918	0047657	117918
		0055242	-	0055242	-	0055242	-
		0058790	-	0058790	-	0058790	-
219 270 * 272	See price page 3182-8 Impeller Washer - 316 SS Impeller Screw - O-Ring Teflon Coated - Buna-N	0068340	119153	0068340	119153	0068340	119153
		0068366	111279	0068366	111279	0068366	111279
282 * 284 287	Washer - 316 SS (2 Req'd.) Stuffing Gland Ring - GAR 8913 Jack Screw Steel (2 Req'd.) 304 SS (8 Req'd.)	0057233 0057231	110496 -	0057233 0057231	110496 -	0057233 0057231	110496 -
		0000402	¾" x 1¼"	0000402	¾" x 1¼"	0000434	½" x 1½"
		0030908	¾" x 1¼"	0030908	¾" x 1¼"	0058791	½" x 1½"

For Pumps Fitted with Mechanical Seal  
Standard Inside Seals, O-Ring or Clamped Stationary Seats

### John Crane Single Seals

Type 1 - O-Ring Mounted		Type 9 - O-Ring Mounted		Type 9 - Clamped	
Seal Code	Part No.	Seal Code	Part No.	Seal Code	Part No.
BF171	0078880	QXF171	0060650	QF171	0060644
BF1C1	0078879	QXF1C1	0060651	QF1C1	0060645
BF191	0078881	QXF191	0060652	QF191	0060646
XF171	0081430	-	-	-	-
XF1C1	0080372	-	-	-	-

### John Crane Double Seals - O-Ring Mounted

BF2C1	0045935	QXF171	0076957	-	-
BF191	0060702	QXF1C1	0076958	-	NA
-	-	QXF191	0076959	-	-

### Seal Gland - For O-Ring Mounted Stationary Seat

Description	For Type 1 Seal			For Type 9 Seal		
	Standard Part No.	Cooling Part No.	Quench Part No.	Standard Part No.	Cooling Part No.	Quench Part No.
Ductile Iron	0064932	0064932	0064847	0064932	0064932	0064847
Alloy 20	0065185	0065185	0064843	0065185	0065185	0064843

\* Seal Gland Gasket - Part No. 0066339  
Throttle Bushing - Bronze - Part No. 0064816; Carbon - Part No. 0064817

### Seal Gland - For Clamped Stationary Seat

Description	For Type 1 Seal		
	Plain Part No.	Cooling Part No.	Quench Part No.
Ductile Iron	0066169	0064836	0064839
Alloy 20	0066167	0064834	0064837

Throttle Bushing - Bronze - Part No. 0064819; Carbon - Part No. 0064820

#### NOTE:

All packing assembly parts are for pumps with packed stuffing box.  
For information and prices on Mechanical Seals, refer to Price pages 3180.  
Pump Serial Number must be furnished when ordering repair parts.  
For Durametallc Seals - See Price Page 3180.

\* Recommended spare parts

SECTION 95  
PAGE 78  
DATE 7/08

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**Repair Parts**

Item	Please Order By the Part No.  Name and Description	VA05-E 2 x 1 x 9½		VA50-E 3 x 1½ x 9½		VA60-E 3 x 2 x 9½	
		Part No.	Drawing No.	Part No.	Drawing No.	Part No.	Drawing No.
1	Casing with Plugs Cast Iron #8 Bronze 316 SS	0072440 0072441 0072442	41420 41420 41420	0072455 0072456 0072457	41421 41421 41421	0072458 0072459 0072460	41422 41422 41422
2	Impeller - 7/8" Bore - Frame 143TC thru 215TC and 143JP thru 184JP Cast Iron #8 Bronze 316 SS	0067031 0067043 0067039	27525 27525 27525	0067091 0067103 0067099	27527 27527 27527	0067151 0067163 0067159	27529 27529 27529
	Impeller - with two Wearing Rings (optional) 7/8" Bore - Frame 143TC thru 215TC and 143JP thru 184JP Cast Iron #8 Bronze 316 SS	0072473 0072474 0072475	27525 27525 27525	0072485 0072486 0072487	27527 27527 27527	0072488 0072489 0072490	27529 27529 27529
* 7	Casing Wear Ring Cast iron #5 Bronze 316 SS	0068114 0068118 0068110	119092 119092 119092	0068114 0068118 0068110	119092 119092 119092	0068172 0068180 0068176	119094 119094 119094
* 8	Impeller Wearing Ring (Top) Cast Iron #8 Bronze 316 SS	0068124 0068126 0068122	119093 119093 119093	0068124 0068126 0068122	119093 119093 119093	0068124 0068126 0068122	119093 119093 119093
	Impeller Wear Ring (Bottom) Cast Iron #8 Bronze 316 SS	0068102 0068106 0068098	119091 119091 119091	0068102 0068106 0068098	119091 119091 119091	0068124 0068126 0068122	119093 119093 119093
11	Packing Box Cover - Standard Cast Iron Ductile Iron 316 SS	0072401 0072402 0072403	33812 33812 33812	0072401 0072402 0072403	33812 33812 33812	0072401 0072402 0072403	33812 33812 33812
	Packing Box Cover (Water Jacketed) Cast Iron Ductile Iron 316 SS	0072419 0072420 0072421	33814 33814 33814	0072419 0072420 0072421	33814 33814 33814	0072419 0072420 0072421	33814 33814 33814
	NOTE: All Packing Box Cover Assemblies include Plugs, Studs, and Nuts.						
* 13	Stuff. Box Packing Rings (5 Req'd) GAR 8913 JC1335 Pure Teflon Fibre Semi-Metallic - B110	0030713 0057153 0063453 0084298	- - - -	0030713 0057153 0063453 0084298	- - - -	0030713 0057153 0063453 0084298	- - - -
* 14	Shaft Sleeve 440C SS - Hardened 316 SS	0058198 0058197	119131 119131	0058198 0058197	119131 119131	0058198 0058197	119131 119131
17	Split Stuff. Box Gland 4140 Steel 316 SS	0057000 0057009	118075 118075	0057000 0057009	118075 118075	0057000 0057009	118075 118075
* 26	Impeller Screw - 3/8" x 1" long 316 SS	0053313	-	0053313	-	0053313	-
* 27	Packing Box Wearing Ring Cast Iron #5 Bronze 316 SS	0068178 0068180 0068176	119094 119094 119094	0068178 0068180 0068176	119094 119094 119094	0068178 0068180 0068176	119094 119094 119094
29	Lantern Ring - Teflon (half - 2 Req'd)	0076639	119511	0076639	119511	0076639	119511
* 30	Impeller Washer Gasket - Teflon	0055362	116040	0055362	116040	0055362	116040
32	Impeller key - Steel	0058336	119150	0058336	119150	0058336	119150
* 38	Shaft Gasket - Teflon	0068369	113335	0068369	113335	0068369	113335
40	Deflector - Neoprene	0000707	18195	0000707	18195	0000707	18195
71	See Page 82 - Adapter						

\* Recommended spare parts



# Parts for Fig. 3182

Industrial Section 38  
Bulletin 95

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## Repair Parts

Item	Please Order By the Part No.  Name and Description	VA05-E 2 x 1 x 9½		VA50-E 3 x 1½ x 9½		VA60-E 3 x 2 x 9½	
		Part No.	Drawing No.	Part No.	Drawing No.	Part No.	Drawing No.
73	Casing Gasket - Durabla	0088148	118656	0088148	118656	0088148	118656
206 212	Split Gland Clip - 316 SS (2 Req'd.) Cap Screws - ½" x 1½" long - for Items 1 - 11 - 71	0047657	117918	0047657	117918	0047657	117918
	Steel (8 Req'd.)	0055242	-	0055242	-	0055242	-
	304 SS (8 Req'd.)	0058790	-	0058790	-	0058790	-
219 270 * 272	See price page 3182-8 Impeller Washer - 316 SS Impeller Screw - O-Ring Teflon Coated - Buna-N	0068340	119153	0068340	119153	0068340	119153
		0068366	111279	0068366	111279	0068366	111279
282 * 284 287	Washer - 316 SS (2 Req'd.) Stuffing Gland Ring - GAR 8913 Jack Screw	0057233 0057231	110496 -	0057233 0057231	110496 -	0057233 0057231	110496 -
	Steel (2 Req'd.)	0000434	½" x 1½"	0000434	½" x 1½"	0000434	½" x 1½"
	304 SS (2 Req'd.)	0058791	½" x 1½"	0058791	½" x 1½"	0058791	½" x 1½"

For Pumps Fitted with Mechanical Seal  
Standard Inside Seals, O-Ring or Clamped Stationary Seats

Durametallic Single Seals						
Seal Code	Type RO			Type ROTT		
	O-Ring Mounted Part No.	Clamped Part No.		O-Ring Mounted Part No.	Clamped Part No.	
EX5	0060750	0060738		0060762	0060744	
EY5	0060748	0060736		0060760	0060742	
E55	0060749	0060737		0060761	0060743	
Durametallic Double Seals - O-Ring Mounted						
Seal Code	Type CRO	Type RO		Type ROTT		
EX5	0060798	0060804		0060810		
EY5	0060796	0060802		0060808		
E55	0060797	0060803		0060809		
Seal Gland - For O-Ring Mounted Stationary Seat						
Description	Type RO & CRO Seal			Type ROTT Seal		
Seal Gland Type	Standard Part No.	Cooling Part No.	Quench Part No.	Standard Part No.	Cooling Part No.	Quench Part No.
Ductile Iron	0064932	0064932	0064847	0065296	0066295	0066301
Alloy 20	0065185	0055185	0064843	0065299	0065298	0066303
Seal Gland Gasket - Part No. 0066339 Throttle Bushing - Bronze - Part No. 0064816; Carbon - Part No. 0064817						
Seal Gland - For Clamped Insert						
Description	Type RO & ROTT Seal					
Seal Gland Type	Plain Part No.	Cooling Part No.	Quench Part No.			
Ductile Iron	0066166	0064827	0064830			
Alloy 20	0066164	0064825	0064828			
Throttle Bushing - Bronze - Part No. 0064819; Carbon - Part No. 0064820						

NOTE:  
All packing assembly parts are for pumps with packed stuffing box.  
For information and prices on Mechanical Seals, refer to Price pages 3180.  
Pump Serial Number must be furnished when ordering repair parts.  
John Crane Seals, see Parts Page 3182.  
\* Recommended spare parts

SECTION 95  
PAGE 80  
DATE 7/08

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**Repair Parts**

Item	Please Order By the Part No.  Name and Description	VA70-E 4 x 3 x 9½		VA20-E 3 x 1½ x 12		VA30-E 3 x 2 x 12	
		Part No.	Drawing No.	Part No.	Drawing No.	Part No.	Drawing No.
1	Casing with Plugs Cast Iron Ductile Iron 316 SS	0072461 0072462 0072463	41423 41423 41423	0072446 0072447 0072448	41424 41424 41424	0072449 0072450 0072451	41425 41425 41425
2	Impeller - ⅝" Bore - Frame 143TC thru 215TC and 143JP thru 184JP Cast Iron #8 Bronze 316 SS	0067235 0067247 0067243	27532 27532 27532	0067319 0067331 0067327	27535 27535 27535	0067379 0067391 0067387	27537 27537 27537
	Impeller - with two Wearing Rings (optional) ⅝" Bore - Frame 143TC thru 215TC and 143JP thru 184JP Cast Iron #8 Bronze 316 SS	0072491 0072492 0072493	27532 27532 27532	0072479 0072480 0072481	27535 27535 27535	0072482 0072483 0072484	27537 27537 27537
* 7	Casing Wear Ring Cast iron #5 Bronze 316 SS	0068156 0068160 0068152	119096 119096 119096	0068114 0068118 0068110	119092 119092 119092	0068114 0068118 0068110	119092 119092 119092
* 8	Impeller Wearing Ring (Top) Cast Iron #8 Bronze 316 SS	0068124 0068126 0068122	119093 119093 119093	0068124 0068126 0068122	119093 119093 119093	0068124 0068126 0068122	119093 119093 119093
	Impeller Wear Ring (Bottom) Cast Iron #8 Bronze 316 SS	0068132 0068136 0068128	119095 119095 119095	0068102 0068106 0068098	119091 119091 119091	0068102 0068106 0068098	119091 119091 119091
11	Packing Box Cover - Standard Cast Iron Ductile Iron 316 SS	0072401 0072402 0072403	33812 33812 33812	0072404 0072405 0072406	33816 33816 33816	0072404 0072405 0072406	33816 33816 33816
	Packing Box Cover (Water Jacketed) Cast Iron Ductile Iron 316 SS	0072419 0072420 0072421	33814 33814 33814	0072422 0072423 0072424	33818 33818 33818	0072422 0072423 0072424	33818 33818 33818
	NOTE: All Packing Box Cover Assemblies include Plugs, Studs, and Nuts.						
* 13	Stuff. Box Packing Rings (5 Req'd) GAR 8913 JC1335 Pure Teflon Fibre Semi-Metallic - B110	0030713 0057153 0063453 0084298	- - - -	0030713 0057153 0063453 0084298	- - - -	0030713 0057153 0063453 0084298	- - - -
* 14	Shaft Sleeve 440C SS - Hardened 316 SS	0068198 0068197	119131 119131	0068198 0068197	119131 119131	0068198 0068197	119131 119131
17	Split Stuff. Box Gland 4140 Steel 316 SS	0057000 0057009	118075 118075	0057000 0057009	118075 118075	0057000 0057009	118075 118075
* 26	Impeller Screw - ⅜" x 1" long 316 SS	0053313	-	0053313	-	0053313	-
* 27	Packing Box Wearing Ring Cast Iron #5 Bronze 316 SS	0068178 0068180 0068176	119094 119094 119094	0068178 0068180 0068176	119094 119094 119094	0068178 0068180 0068176	119094 119094 119094
29	Lantern Ring - Teflon (half - 2 Req'd)	0076639	119511	0076639	119511	0076639	119511
* 30	Impeller Washer Gasket - Teflon	0068362	116040	0068362	116040	0068362	116040
32	Impeller key - Steel	0068336	119150	0068336	119150	0068336	119150
* 38	Shaft Gasket - Teflon	0068369	113335	0068369	113335	0068369	113335
40	Deflector - Neoprene	0000707	18195	0000707	18195	0000707	18195
71	See Page 82 - Adapters						
* 73	Casing Gasket - Durabla	0088148	118656	0088149	118657	0088149	118657

\* Recommended spare parts



# Parts for Fig. 3182

Industrial Section 38  
Bulletin 95

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## Repair Parts

Item	Please Order By the Part No.  Name and Description	VA70-E 4 x 3 x 9½		VA20-E 3 x 1½ x 12		VA30-E 3 x 2 x 12	
		Part No.	Drawing No.	Part No.	Drawing No.	Part No.	Drawing No.
206 212	Split Gland Clip - 316 SS (2 Req'd.) Cap Screws - ½" x 1½" long - for Items 1 - 11 - 71 Steel (8 Req'd.) 304 SS (8 Req'd.)	0047657	117918	0047657	117918	0047657	117918
		0055242	-	0055242	-	0055242	-
		0058790	-	0058790	-	0058790	-
270 * 272	Impeller Washer - 316 SS Impeller Screw - O-Ring Teflon Coated - Buna-N	0068340	119153	0068340	119153	0068340	119153
		0068366	111279	0068366	111279	0068366	111279
282 * 284 287	Washer - 316 SS (2 Req'd.) Stuffing Gland Ring - GAR 8913 Jack Screw Steel (8 Req'd.) 304 SS (8 Req'd.)	0057233 0057231	110496 -	0057233 0057231	110496 -	0057233 0057231	110496 -
		0000434	½" x 1½"	0000434	½" x 1½"	0000434	½" x 1½"
		0058791	½" x 1½"	0058791	½" x 1½"	0058791	½" x 1½"

**Fig. 3182 Motor Adapter  
Sizes AA and AB**

Item No.	Frame Size	Register AK	Part No.	Material	Drawing No.
71	143TC - 145TC	4½	0067990	C.I.	33819
	143JP - 184JP	4½	0067990		33819
	182TC-215TC	8½	0067996		33820
All Sizes except AA and AB					
71	143TC-145TC	4½	0068002	C.I.	33821
	143JP-184JP	4½	0068002		33821
	182TC-215TC	8½	0068008		33822
<b>Cap Screws for Item 71 (4 Req'd)</b>					
<b>Sizes AA and AB</b>					
Item No.	Frame Size	Register AK	Part No.	Material	Size
219	143TC-145TC	4½	0000397	Steel	¾" x 1"
	143JP-184JP	4½	0000397	Steel	¾" x 1"
	182TC-215TC	8½	0000431	Steel	½" x 1"
All Sizes except AA and AB					
219	143TC-145TC	4½	0000397	Steel	¾" x 1"
	143JP-184JP	4½	0000397	Steel	¾" x 1"
	182TC-215TC	8½	0000431	Steel	½" x 1"

**NOTE:**

All packing assembly parts are for pumps with packed stuffing box.  
For information and prices on Mechanical Seals, refer to Price pages 3180.  
Pump Serial Number must be furnished when ordering repair parts.  
\* Recommended spare parts

SECTION 95  
PAGE 82  
DATE 7/08



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**Repair Parts**

Item	Please Order By the Part No.  Name and Description	VA10-E 3 x 2 x 7½		VA05-E 2 x 1 x 9½		VA50-E 3 x 1½ x 9½	
		Part No.	Drawing No.	Part No.	Drawing No.	Part No.	Drawing No.
1	Casing with Plugs Cast Iron Ductile Iron 316 SS	0072443 0072444 0072445	41419 41419 41419	0072440 0072441 0072442	41420 41420 41420	0072455 0072456 0072457	41421 41421 41421
2	Impeller - 1¼" Bore - Frame 254TC thru 326TC and 213JP thru 326JP Cast Iron #8 Bronze 316 SS	0066934 0066952 0066946	27524 27524 27524	0066995 0067013 0067007	27526 27526 27526	0067055 0067073 0067067	27528 27528 27528
	Impeller - with two Wearing Rings (optional) 1¼" Bore - Frame 254TC thru 326TC and 213JP thru 326JP Cast Iron #8 Bronze 316 SS	0072497 0072498 0072499	27524 27524 27524	0072494 0072495 0072496	27526 27526 27526	0072509 0072510 0072511	27528 27528 27528
* 7	Casing Wear Ring Cast iron #5 Bronze 316 SS	0068090 0068094 0068086	119090 119090 119090	0068114 0068118 0068110	119092 119092 119092	0068114 0068118 0068110	119092 119092 119092
* 8	Impeller Wearing Ring (Top) Cast Iron #8 Bronze 316 SS	0068078 0068082 0068074	119089 119089 119089	0068124 0068126 0068122	119093 119093 119093	0068124 0068126 0068122	119093 119093 119093
	Impeller Wear Ring (Bottom) Cast Iron #8 Bronze 316 SS	0068078 0068082 0068074	119089 119089 119089	0068102 0068106 0068098	119091 119091 119091	0068102 0068106 0068098	119091 119091 119091
11	Packing Box Cover - Standard Cast Iron Ductile Iron 316 SS	0072407 0072408 0072409	33563 33563 33563	0072407 0072408 0072409	33563 33563 33563	0072407 0072408 0072409	33563 33563 33563
	Packing Box Cover (Water Jacketed) Cast Iron Ductile Iron 316 SS	0072425 0072426 0072427	33564 33564 33564	0072425 0072426 0072427	33564 33564 33564	0072425 0072426 0072427	33564 33564 33564
	NOTE: All Packing Box Cover Assemblies include Plugs, Studs, and Nuts.						
* 13	Stuff. Box Packing Rings (5 Req'd) GAR 8913 JC1335 Pure Teflon Fibre Semi-Metallic - B110	0035045 0057155 0063454 0084299	- - - -	0035045 0057155 0063454 0084299	- - - -	0035045 0057155 0063454 0084299	- - - -
* 14	Shaft Sleeve 440C SS - Hardened 316 SS	0057319 0057318	118768 118768	0057319 0057318	118768 118768	0057319 0057318	118768 118768
17	Split Stuff. Box Gland Cast Iron Carp. 20	0043731 0057045	117913 117913	0043731 0057045	117913 117913	0043731 0057045	117913 117913
* 26	Impeller Screw - ¾" x 1" long 316 SS	0053315	-	0053315	-	0053315	-
* 27	Casing Wearing Ring Cast Iron #5 Bronze 316 SS	0068144 0068148 0068140	119079 119079 119079	0068178 0068180 0068176	119094 119094 119094	0068178 0068180 0068176	119094 119094 119094
29	Lantern Ring - Teflon (half - 2 Req'd)	0076642	119511	0076642	119511	0076642	119511
* 30	Impeller Washer Gasket - Teflon	0068363	116040	0068363	116040	0068363	116040
32	Impeller key - Steel	0068337	119151	0068337	119151	0068337	119151
* 38	Shaft Gasket - Teflon	0068367	119156	0068367	119156	0068367	119156
40	Deflector - Neoprene	0000712	18195	0000712	18195	0000712	18195
71	See Parts Page 88 - Adapters						
* 73	Casing Gasket - Durabla	0088147	118655	0088148	118656	0088148	118656

\* Recommended spare parts



**Repair Parts**

Item	Please Order By the Part No.  Name and Description	VA10-E 3 x 2 x 7½		VA05-E 2 x 1 x 9½		VA50-E 3 x 1½ x 9½	
		Part No.	Drawing No.	Part No.	Drawing No.	Part No.	Drawing No.
206 212	Split Gland Clip - 316 SS (2 Req'd.) Cap Screws - ½" x 1½" long - for Items 1 - 11 - 71 Steel (8 Req'd.) 304 SS (8 Req'd.)	0047657	117918	0047657	117918	0047657	117918
		0055242 0058790	- -	0055242 0058790	- -	0055242 0058790	- -
219 270 * 272	See parts page 3182-92 Impeller Washer - 316 SS Impeller Screw - O-Ring Teflon Coated - Buna-N	0068347	119154	0068347	119154	0068347	119154
		0068365	111279	0068365	111279	0068365	111279
282 * 284 287	Washer - 316 SS (2 Req'd.) Stuffing Gland Ring - GAR 8913 Jack Screw Steel (2 Req'd.) 304 SS (2 Req'd.)	0057233 0057232	110496 -	0057233 0057232	110496 -	0057233 0057232	110496 -
		0000434 0058791	- -	0000434 0058791	- -	0000434 0058791	- -

For Pumps Fitted with Mechanical Seal  
Standard Inside Seals, O-Ring or Clamped Stationary Seats

**John Crane Single Seals**

Type 1 - O-Ring Mounted		Type 9 - O-Ring Mounted		Type 9 - Clamped	
Seal Code	Part No.	Seal Code	Part No.	Seal Code	Part No.
BF171	0078883	QXF171	0060653	QF171	0060647
BF1C1	0078882	QXF1C1	0060654	QF1C1	0060648
BF191	0078884	QXF191	0060655	QF191	0060649
XF171	0081431	-	-	-	-
XF1C1	0080373	-	-	-	-

**John Crane Double Seals - O-Ring Mounted**

BF2C1	0045936	QXF171	0076960	-	NA
BF191	0060703	QXF1C1	0076961	-	NA
-	-	QXF191	0076962	-	NA

**Seal Gland - For O-Ring Mounted Stationary Seat**

Description	For Type 1 Seal			For Type 9 Seal		
	Standard Part No.	Cooling Part No.	Quench Part No.	Standard Part No.	Cooling Part No.	Quench Part No.
Ductile Iron	0064930	0064930	0064873	0064930	0064930	0064873
Alloy 20	0065181	0065181	0064869	0065181	0065181	0064869

\* Seal Gland Gasket - Part No. 0066338  
Throttle Bushing - Bronze - Part No. 0062271; Carbon - Part No. 0063724

**Seal Gland - For Clamped Stationary Seat**

Description	For Type 1 Seal		
	Plain Part No.	Cooling Part No.	Quench Part No.
Ductile Iron	0066178	0064862	0064865
Alloy 20	0066176	0064860	0064863

Throttle Bushing - Bronze - Part No. 0062271; Carbon - Part No. 0063724

**NOTE:**

All packing assembly parts are for pumps with packed stuffing box.  
For information and prices on Mechanical Seals, refer to Price pages 3180.  
Pump Serial Number must be furnished when ordering repair parts.  
For Durametallc Seals - See PartsPage 90.

\* Recommended spare parts

**Repair Parts**

Item	Please Order By the Part No.  Name and Description	VA60-E 3 x 2 x 9½		VA70-E 4 x 3 x 9½		VA20-E 3 x 1½ x 12	
		Part No.	Drawing No.	Part No.	Drawing No.	Part No.	Drawing No.
1	Casing with Plugs Cast Iron Ductile Iron 316 SS	0072458 0072459 0072460	41422 41422 41422	0072461 0072462 0072463	41423 41423 41423	0072446 0072447 0072448	41424 41424 41424
2	Impeller - 1¼" Bore - Frame 254TC thru 326TC and 213JP thru 326JP Cast Iron #8 Bronze 316 SS	0067115 0067133 0067127	27530 27530 27530	0067199 0067217 0067211	27533 27533 27533	0067283 0067301 0067295	27536 27536 27536
	Impeller - with two Wearing Rings (optional) 1¼" Bore - Frame 254TC thru 326TC and 213JP thru 326JP Cast Iron #8 Bronze 316 SS	0072512 0072513 0072514	27530 27530 27530	0072515 0072516 0072517	27533 27533 27533	0072500 0072501 0072502	27536 27536 27536
* 7	Casing Wear Ring Cast iron #5 Bronze 316 SS	0068178 0068180 0068176	119094 119094 119094	0068156 0068160 0068152	119096 119096 119096	0068114 0068118 0068110	119092 119092 119092
* 8	Impeller Wearing Ring (Top) Cast Iron #8 Bronze 316 SS	0068124 0068126 0068122	119093 119093 119093	0068124 0068126 0068122	119093 119093 119093	0068124 0068126 0068122	119093 119093 119093
	Impeller Wear Ring (Bottom) Cast Iron #8 Bronze 316 SS	0068124 0068126 0068122	119093 119093 119093	0068132 0068136 0068128	119095 119095 119095	0068102 0068106 0068098	119091 119091 119091
11	Packing Box Cover - Standard Cast Iron Ductile Iron 316 SS	0072407 0072408 0072409	33563 33563 33563	0072407 0072408 0072409	33563 33563 33563	0072410 0072411 0072412	33600 33600 33600
	Packing Box Cover (Water Jacketed) Cast Iron Ductile Iron 316 SS	0072425 0072426 0072427	33564 33564 33564	0072425 0072426 0072427	33564 33564 33564	0072428 0072429 0072430	33601 33601 33601
	NOTE: All Packing Box Cover Assemblies include Plugs, Studs, and Nuts.						
* 13	Stuff. Box Packing Rings (5 Req'd) GAR 8913 JC1335 Pure Teflon Fibre Semi-Metallic - B110	0035045 0057155 0063454 0084299	- - - -	0035045 0057155 0063454 0084299	- - - -	0035045 0057155 0063454 0084299	- - - -
* 14	Shaft Sleeve - Long - New Style 440C SS - Hardened 316 SS	0057319 0057318	118768 118768	0057319 0057318	118768 118768	0057319 0057318	118768 118768
17	Split Stuff. Box Gland Cast Iron Carp. 20	0043731 0057045	117913 117913	0043731 0057045	117913 117913	0043731 0057045	117913 117913
* 26	Impeller Screw - ¾" x 1" long 316 SS	0053315	-	0053315	-	0053315	-
* 27	Packing Box Wearing Ring Cast Iron #5 Bronze 316 SS	0068178 0068180 0068176	119094 119094 119094	0068178 0068180 0068176	119094 119094 119094	0068178 0068180 0068176	119094 119094 119094
29	Lantern Ring - Teflon (half - 2 Req'd)	0076642	119511	0076642	119511	0076642	119511
* 30	Impeller Washer Gasket - Teflon	0068363	116040	0068363	116040	0068363	116040
32	Impeller key - Steel	0068337	119151	0068337	119151	0068337	119151
* 38	Shaft Gasket - Teflon	0068367	119156	0068367	119156	0068367	119156
40	Deflector - Neoprene	0000712	18195	0000712	18195	0000712	18195
71	See Parts Page 88 - Adapter						
* 73	Casing Gasket - Durabla	0088148	118656	0088148	118656	0088149	118657

\* Recommended spare parts



**PUMPS & SYSTEMS**

**SECTION 95**  
**PAGE 85**  
**DATE 7/08**

# Parts for Fig. 3185

Industrial Section 38  
Bulletin 95

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## Repair Parts

Item	Please Order By the Part No.  Name and Description	VA60-E 3 x 2 x 9½		VA70-E 4 x 3 x 9½		VA20-E 3 x 1½ x 12	
		Part No.	Drawing No.	Part No.	Drawing No.	Part No.	Drawing No.
206	Split Gland Clip - 316 SS (2 Req'd.) Cap Screws - ½" x 1½" long - for Items 1 - 11 - 71 Steel (8 Req'd.) 304 SS (8 Req'd.)	0047657	117918	0047657	117918	0047657	117918
212		0055242	-	0055242	-	0055242	-
		0058790	-	0058790	-	0058790	-
219	See parts page 3182-92						
270	Impeller Washer - 316 SS	0068347	119154	0068347	119154	0068347	119154
* 272	Impeller Screw - O-Ring Teflon Coated - Buna-N	0068365	111279	0068365	111279	0068365	111279
282	Washer - 316 SS (2 Req'd.)	0057233	110496	0057233	110496	0057233	110496
* 284	Stuffing Gland Ring - GAR 8913	0057232	-	0057232	-	0057232	-
287	Jack Screw Steel (2 Req'd.) 304 SS (2 Req'd.)	0000434	-	0000434	-	0000434	-
		0058791	-	0058791	-	0058791	-

For Pumps Fitted with Mechanical Seal  
Standard Inside Seals, O-Ring or Clamped Stationary Seats

### Durametallic Single Seals

Seal Code	Type RO		Type ROTT	
	O-Ring Mounted Part No.	Clamped Part No.	O-Ring Mounted Part No.	Clamped Part No.
EX5	0060753	0060741	0060765	0060747
EY5	0060751	0060739	0060763	0060745
E55	0060752	0060740	0060764	0060746

### Durametallic Double Seals - O-Ring Mounted

Seal Code	Type CRO	Type RO	Type ROTT
EX5	0060801	0060807	0060813
EY5	0060799	0060805	0060811
E55	0060800	0060806	0060812

### Seal Gland - For O-Ring Mounted Stationary Seat

Description	Type RO & CRO Seal			Type ROTT Seal		
	Standard Part No.	Cooling Part No.	Quench Part No.	Standard Part No.	Cooling Part No.	Quench Part No.
Ductile Iron	0064930	0064930	0064873	0065292	0065292	0066274
Alloy 20	0065181	0061581	0064869	0065295	0065295	0066276

Seal Gland Gasket - Part No. 0066338

Throttle Bushing - Bronze - Part No. 0062271; Carbon - Part No. 0063274

### Seal Gland - For Clamped Stationary Seat

Description	Type RO & ROTT Seal		
	Plain Part No.	Cooling Part No.	Quench Part No.
Ductile Iron	0066175	0064851	0064854
Alloy 20	0066173	0064849	0064852

Throttle Bushing - Bronze - Part No. 0064822; Carbon - Part No. 0064823

#### NOTE:

All packing assembly parts are for pumps with packed stuffing box.  
For information and prices on Mechanical Seals, refer to Price pages 3180.  
Pump Serial Number must be furnished when ordering repair parts.  
John Crane Seals, see Parts Page 3188.

\* Recommended spare parts

SECTION 95  
PAGE 86  
DATE 7/08

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**Repair Parts**

Item	Please Order By the Part No.  Name and Description	VA30-E 3 x 2 x 12		VA40-E 4 x 3 x 12		VA80-E 6 x 4 x 12	
		Part No.	Drawing No.	Part No.	Drawing No.	Part No.	Drawing No.
1	Casing with Plugs Cast Iron Ductile Iron 316 SS	0072449 0072450 0072451	41425 41425 41425	0072452 0072453 0072454	41426 41426 41426	0072464 0072465 0072466	41427 41427 41427
2	Impeller - 1¼" Bore - Frame 254TC thru 326TC and 213JP thru 326JP Cast Iron #8 Bronze 316 SS	0067343 0067361 0067355	27538 27538 27538	0067403 0067421 0067415	27539 27539 27539	0067438 0067456 0067450	27540 27540 27540
	Impeller - with two Wearing Rings (optional) 1¼" Bore - Frame 254TC thru 326TC and 213JP thru 326JP Cast Iron #8 Bronze 316 SS	0072503 0072504 0072505	27538 27538 27538	0072506 0072507 0072508	27539 27539 27539	0072518 0072519 0072520	27540 27540 27540
* 7	Casing Wear Ring Cast iron #5 Bronze 316 SS	0068114 0068118 0068110	119092 119092 119092	0068156 0068160 0068152	119096 119096 119096	0068186 0068190 0068182	119098 119098 119098
* 8	Impeller Wearing Ring (Top) Cast Iron #8 Bronze 316 SS	0068124 0068126 0068122	119093 119093 119093	0068124 0068126 0068122	119093 119093 119093	0068186 0068190 0068182	119098 119098 119098
	Impeller Wear Ring (Bottom) Cast Iron #8 Bronze 316 SS	0068102 0068106 0068098	119091 119091 119091	0068132 0068136 0068128	119095 119095 119095	0068168 0068172 0068164	119097 119097 119097
11	Packing Box Cover - Standard Cast Iron Ductile Iron 316 SS	0072410 0072411 0072412	33600 33600 33600	0072410 0072411 0072412	33600 33600 33600	0072410 0072411 0072412	33600 33600 33600
	Packing Box Cover (Water Jacketed) Cast Iron Ductile Iron 316 SS	0072428 0072429 0072430	33601 33601 33601	0072428 0072429 0072430	33601 33601 33601	0072428 0072429 0072430	33601 33601 33601
	NOTE: All Packing Box Cover Assemblies include Plugs, Studs, and Nuts.						
* 13	Stuff. Box Packing Rings (5 Req'd) GAR 8913 JC1335 Pure Teflon Fibre Semi-Metallic - B110	0035045 0057155 0063454 0084299	- - - -	0035045 0057155 0063454 0084299	- - - -	0035045 0057155 0063454 0084299	- - - -
* 14	Shaft Sleeve 440C SS - Hardened 316 SS	0057319 0057318	118768 118768	0057319 0057318	118768 118768	0057319 0057318	118768 118768
17	Split Stuff. Box Gland Cast Iron Carp. 20	0043731 0057045	117913 117913	0043731 0057045	117913 117913	0043731 0057045	117913 117913
* 26	Impeller Screw - ½" x 1½" long 316 SS	0053315	-	0053315	-	0053315	-
* 27	Packing Box Wearing Ring Cast Iron † #5 Bronze 316 SS	0068178 0068180 0068176	119094 119094 119094	0068178 0068180 0068176	119094 119094 119094	0068168 0068172 0068164	119097 119097 119097
29	Lantern Ring - Teflon (half - 2 Req'd)	0076642	119511	0076642	119511	0076642	119511
* 30	Impeller Washer Gasket - Teflon	0068363	116040	0068363	116040	0068363	116040
32	Impeller key - Steel	0068337	119151	0068337	119151	0068337	119151
* 38	Shaft Gasket - Teflon	0068367	119156	0068367	119156	0068367	119156
40	Deflector - Neoprene	0000712	18195	0000712	18195	0000712	18195
71	See Parts Page 88 - Adapter						
* 73	Casing Gasket - Durabla	0088149	118657	0088149	118657	0088149	118657

† Wearing ring for VA80-E 6 x 4 x 12 is #8 B2.

\* Recommended spare parts



# Parts for Fig. 3185

Industrial Section 38  
Bulletin 95

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## Repair Parts

Item	Please Order By the Part No.  Name and Description	VA30-E 3 x 2 x 12		VA40-E 4 x 3 x 12		VA80-E 6 x 4 x 12	
		Part No.	Drawing No.	Part No.	Drawing No.	Part No.	Drawing No.
206 212	Split Gland Clip - 316 SS (2 Req'd.) Cap Screws - 1/2" x 1 1/8" long - for Items 1 - 11 - 71 Steel (8 Req'd.) 304 SS (8 Req'd.)	0047657	117918	0047657	117918	0047657	117918
		0055242	-	0055242	-	0055242	-
		0058790	-	0058790	-	0058790	-
270 * 272	Impeller Washer - 316 SS Impeller Screw - O-Ring Teflon Coated - Buna-N	0068347	119154	0068347	119154	0068347	119154
		0068365	111279	0068365	111279	0068365	111279
282 * 284 287	Washer - 316 SS (2 Req'd.) Stuffing Gland Ring - GAR 8913 Jack Screw Steel (2 Req'd.) 304 SS (2 Req'd.)	0057233 0057232	110496 -	0057233 0057232	110496 -	0057233 0057232	110496 -
		0000434	-	0000434	-	0000434	-
		0058791	-	0058791	-	0058791	-

**Fig. 3185 Motor Adapter**  
All Sizes except AA and AB

Item No.	Frame Size	Register AK	Part No.	Material	Drawing No.
71	213JP-256JP	8 1/2	0045055	C.I.	33318
	254TC-256TC	8 1/2	0045055		33318
	284TC-286TC	10 1/2	0045095		33340
	284JP-326JP	12 1/2	0045097		33341
	324TC-326TC	12 1/2	0045097		33341

**Cap Screws for Item 71 (4 Req'd)**  
All Sizes except AA and AB

Item No.	Frame Size	Register AK	Part No.	Material	Size
219	213JP-256JP	8 1/2	0000431	Steel	1/2" x 1"
	254TC-256TC	8 1/2	0000431		1/2" x 1"
	284TC-286TC	10 1/2	0000431		1/2" x 1"
	284JP-326JP	12 1/2	0000451		5/8" x 1 3/8"
	324TC-326TC	12 1/2	0000451		5/8" x 1 3/8"

**NOTE:**

All packing assembly parts are for pumps with packed stuffing box.  
For information and prices on Mechanical Seals, refer to Price pages 3180.  
Pump Serial Number must be furnished when ordering repair parts.  
\* Recommended Spare Parts

SECTION 95  
PAGE 88  
DATE 7/08

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**Repair Parts**

Item	Please Order By the Part No.  Name and Description	VA60-E 3 x 2 x 9½		VA70-E 4 x 3 x 9½	
		Part No.	Drawing No.	Part No.	Drawing No.
1	Casing with Plugs Cast Iron Ductile Iron 316 SS	0072458 0072459 0072460	41422 41422 41422	0072461 0072462 0072463	41423 41423 41423
2	Impeller - 1½" Bore - Frame 364TC thru 365TC and 364JP thru 365JP Cast Iron #8 Bronze 316 SS	0067175 0067187 0067183	27531 27531 27531	0067259 0067271 0067267	27534 27534 27534
	Impeller - with two Wearing Rings (optional) 1½" Bore - Frame 364TC thru 365TC and 364JP thru 365JP Cast Iron #8 Bronze 316 SS	0072521 0072522 0072523	27531 27531 27531	0072524 0072525 0072526	27534 27534 27534
* 7	Casing Wear Ring Cast iron #5 Bronze 316 SS	0068178 0068180 0068176	119094 119094 119094	0068156 0068160 0068152	119096 119096 119096
* 8	Impeller Wearing Ring (Top) Cast Iron #8 Bronze 316 SS	0068124 0068126 0068122	119093 119093 119093	0068124 0068126 0068122	119093 119093 119093
	Impeller Wear Ring (Bottom) Cast Iron #8 Bronze 316 SS	0068124 0068126 0068122	119093 119093 119093	0068132 0068136 0068128	119095 119095 119095
11	Packing Box Cover - Standard Cast Iron Ductile Iron 316 SS	0072413 0072414 0072415	33813 33813 33813	0072413 0072414 0072415	33813 33813 33813
	Packing Box Cover (Water Jacketed) Cast Iron Ductile Iron 316 SS	0072431 0072432 0072433	33815 33815 33815	0072431 0072432 0072433	33815 33815 33815
	NOTE: All Packing Box Cover Assemblies include Plugs, Studs, and Nuts.				
* 13	Stuff. Box Packing Rings (5 Req'd) GAR 8913 JC1335 Pure Teflon Fibre Semi-Metallic - B110	0068472 0068473 0071816 -	- - - -	0068472 0068473 0071816 -	- - - -
* 14	Shaft Sleeve 440C SS - Hardened 316 SS	0068214 0068213	119132 119132	0068214 0068213	119132 119132
17	Split Stuff. Box Gland Cast Iron 316 SS	0044000 0068481	118085 118085	0044000 0068481	118085 118085
* 26	Impeller Screw - ¾" x 1" long 316 SS	0053315	-	0053315	-
* 27	Packing Box Wearing Ring Cast Iron #5 Bronze 316 SS	0068178 0068180 0068176	119094 119094 119094	0068178 0068180 0068176	119094 119094 119094
29	Lantern Ring - Teflon (half - 2 Req'd)	0076643	119511	0076643	119511
* 30	Impeller Washer Gasket - Teflon	0068364	116040	0068364	116040
32	Impeller key - Steel	0068338	119152	0068338	119152
* 38	Shaft Gasket - Teflon	0068368	119157	0068368	119157
40	Deflector - Neoprene	0000714	18195	0000714	18195
71	See Parts Page 90 - Adapter				
* 73	Casing Gasket - Durabla	0088148	118656	0088148	118656

\* Recommended spare parts



# Parts for Fig. 3186

Industrial Section 38  
Bulletin 95

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## Repair Parts

Item	Please Order By the Part No.  Name and Description	VA60-E 3 x 2 x 9½		VA70-E 4 x 3 x 9½	
		Part No.	Drawing No.	Part No.	Drawing No.
206 212	Split Gland Clip - 316 SS (2 Req'd.) Cap Screws - ½" x 1½" long - for Items 1 - 11 - 71 Steel (8 Req'd.) 304 SS (8 Req'd.)	0044046	118099	0044046	118099
		0055242	-	0055242	-
		0058790	-	0058790	-
270 * 272	Impeller Washer - 316 SS Impeller Screw - O-Ring Teflon Coated - Buna-N	0068354	119155	0068354	119155
		0068365	111279	0068365	111279
282 * 284 287	Washer - 316 SS (2 Req'd.) Stuffing Gland Ring - GAR 8913 Jack Screw Steel (2 Req'd.) 304 SS (2 Req'd.)	0057233 0068471	110496 -	0057233 0068471	110496 -
		0000434 0058791	- -	0000434 0058791	- -

**Fig. 3186 Motor Adapter**  
All Sizes except AA and AB

Item No.	Frame Size	Register AK	Part No.	Material	Drawing No.
71	364TC-365TC 364JP-365JP	12½ 12½	0045097 0045097	C.I.	33341 33341

**Cap Screws for Item 71 (4 Req'd)**  
All Sizes except AA and AB

Item No.	Frame Size	Register AK	Part No.	Material	Size
219	364TC-365TC 364JP-365JP	12½ 12½	0000451 0000451	Steel	5/8" x 1 3/8" 5/8" x 1 3/8"

**NOTE:**

All packing assembly parts are for pumps with packed stuffing box.  
For information and prices on Mechanical Seals, refer to Application Engineering.  
Pump Serial Number must be furnished when ordering repair parts.  
\* Recommended spare parts

SECTION 95  
PAGE 90  
DATE 7/08

**CRANE®**

A Crane Co. Company

**PUMPS & SYSTEMS**

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**Repair Parts**

**For Pumps Fitted with Mechanical Seal  
Standard Inside Seals, O-Ring or Clamped Stationary Seats**

John Crane Single Seals					
Type 1 - O-Ring Mounted		Type 9 - O-Ring Mounted		Type 9 - Clamped	
Seal Code	Part No.	Seal Code	Part No.	Seal Code	Part No.
BF171	0078886	QXF171	0072270	QF171	0072267
BF1C1	0078885	QXF1C1	0072271	QF1C1	0072268
BF191	0078887	QXF191	0072272	QF191	0072269
XF171	0081432	-	-	-	-
XF1C1	0080374	-	-	-	-

John Crane Double Seals - O-Ring Mounted					
Seal Code	Part No.	Seal Code	Part No.	Seal Code	Part No.
BF2C1	0045937	QXF171	0076963	N.A.	N.A.
BF191	0072277	QXF1C1	0076964		
-	-	QXF191	0076965		

For information and prices on Mechanical Seals, refer to Price Pages Section 38, page 7.

Seal Gland - For O-Ring Mounted Stationary Seat						
Description	For Type 1 Seal			For Type 9 Seal		
	Standard (1) Part No.	Cooling (2) Part No.	Quench (3) Part No.	Standard (1) Part No.	Cooling (2) Part No.	Quench (3) Part No.
Ductile Iron	0061573	0061573	0071229	0065173	0065173	0071729
Alloy 20	0061577	0061577	0071735	0065177	0065177	0071735

\* Seal Gland Gasket - Part No. 0071786  
Throttle Bushing - Bronze - Part No. 0071748; Carbon - Part No. 0071749

Seal Gland - For Clamped Stationary Seat			
Description	For Type 1 Seal		
	Plain (4) Part No.	Cooling (5) Part No.	Quench (6) Part No.
Ductile Iron	0068679	0068685	0068682
Alloy 20	0068681	0068687	0068684

Throttle Bushing - Bronze - Part No. 0071751; Carbon - Part No. 0071752

- (1) Includes 2 taps for flushing or lubricating seal.
  - (2) Includes 2 taps - may be used for cooling.
  - (3) Includes 4 taps for flushing, vent and drain. Requires throttle bushing with single seal.
  - (4) Plain Gland - no taps.
  - (5) Includes 2 taps for cooling, flush or lubrication.
- \* Recommended spare parts



**Repair Parts**

For Pumps Fitted with Mechanical Seal  
Standard Inside Seals, O-Ring or Clamped Stationary Seats

Durametallic Single Seals				
Seal Code	Type RO		Type ROTT	
	O-Ring Mounted Part No.	Clamped Part No.	O-Ring Mounted Part No.	Clamped Part No.
EX5	0072299	0072293	0072302	0072296
EY5	0072297	0072291	0072300	0072294
E55	0072298	0072292	0072301	0072295

Durametallic Double Seals - O-Ring Mounted				
Seal Code	Type CRO	Type RO	Type ROTT	
EX5	0072315	-	-	
EY5	0072313	-	-	
E55	0072314	-	-	

For information and prices on Mechanical Seals, refer to Price Pages Section 38, page7.

Seal Gland - For O-Ring Mounted Stationary Seat						
Description	Type RO & CRO Seal			Type ROTT Seal		
Seal Gland Type	Standard Part No.	Cooling Part No.	Quench Part No.	Standard Part No.	Cooling Part No.	Quench Part No.
Ductile Iron	0065173	0065173	0071729	0065300	0065300	0071730
Alloy 20	0065177	0065177	0071735	0065303	0065303	0071736

Seal Gland Gasket - Part No. 0071786  
Throttle Bushing - Bronze - Part No. 0071748; Carbon - Part No. 0071749

Seal Gland - For Clamped Stationary Seat						
Description	Type RO & ROTT Seal					
Seal Gland Type	Plain Part No.	Cooling Part No.	Quench Part No.			
Ductile Iron	0068641	0068647	0068650			
Alloy 20	0068645	0068649	0068652			

Throttle Bushing - Bronze - Part No. 0071751; Carbon - Part No. 0071752

- (1) Includes 2 taps for flushing or lubricating seal.
  - (2) Includes 2 taps - may be used for cooling.
  - (3) Includes 4 taps for flushing, vent and drain. Requires throttle bushing with single seal.
  - (4) Plain Gland - no taps.
  - (5) Includes 2 taps for cooling, flush or lubrication.
- \* Recommended Spare Parts