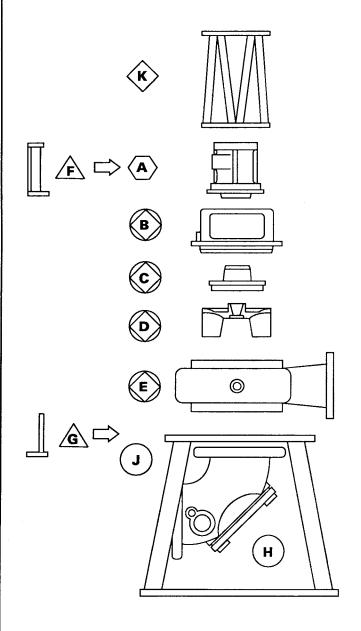
INTERCHANGEABILITY



Non-Clog pumps are designed for maximum interchangeability. All models are available in all 6 sizes, offering a model and size precisely fitted to the installation requirements over a wide range of capacities. The 6 sizes are divided into 3 "Power Frames". Within a given power frame, all parts are interchangeable except for the liquid end and supports. The chart illustrates the degree of interchageability achieved with the standard nonclog vortex pumps.

•	^
Model 663A Only	
Models 662A 663A & 664A	Č
Models 662A, 663A, & 664A Models 661A, 662A, & 663A Models 661A, 662A, 663A, & 664A	····· ≻
Manufactor COAA COOA COOA 9 COAA	····· >
WIOGEIS 66 1A, 662A, 663A, & 664A	····· C
	Qty
A. Barray France	
A - Power Frames	
B - Brackets	5
C - Stuffing Boxes	3
D - Impellers	
E - Casings	6
F - Mounting Feet (Rear)	
G - Mounting Feet (Front)	
H - Elbows	
J - Bases	
K - Motor Supports	

Model 661A Only

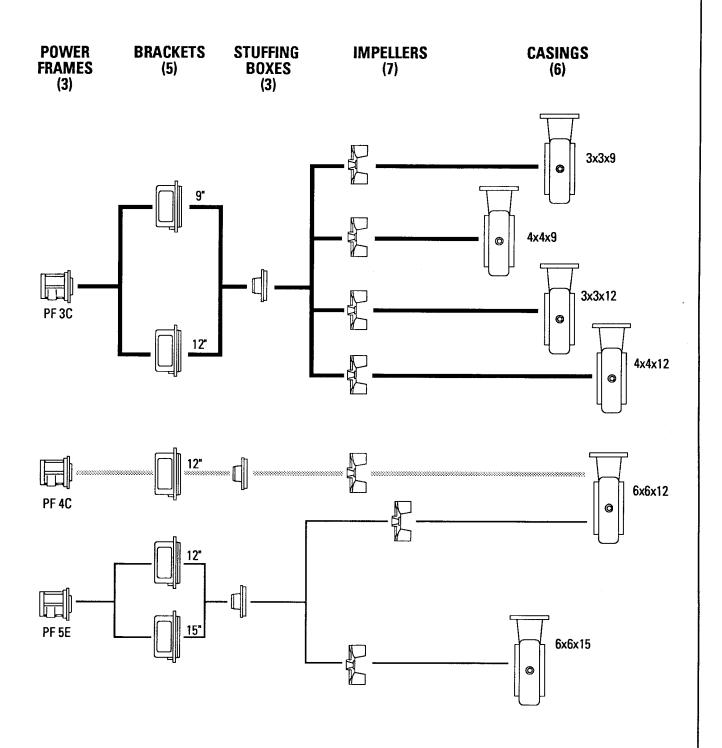
POWER FRAME SELECTION

	PUMP		RPM						
	SIZE	ш	1750	1150	875	700			
\bigcirc	3x3x9	FRAME	3C	3C	3C				
Ŏ	4x4x9	Æ	3C	3C	3C				
\bigcirc	3x3x12		3C	3C	3C				
\bigcirc	4x4x12	POWER	3C	3C	3C				
\bigcirc	6x6x12	ୁ ଅ	5E	4C	4C				
	6x6x15			5E	5E	5E			

SECTION 660 PAGE 74 - DATED JUNE 1991

AURORA 660A SERIES ENGINEERING DATA

INTERCHANGEABILITY





AURORA MODEL 660 PUMP ____ SECTION 660 PAGE 165 SPLIT PACKING BOX OPTION

DATED NOVEMBER 1988

POWER FRAMES 4 & 5 ONLY



Split packing boxes separate vertically through the packing insert to simplify packing replacement and shaft sleeve inspection. The insert halves are dowled, register aligned and gasketed to prevent leakage. Only six bolts need be removed to expose all of the packing and lantern ring. Remove two more bolts and the remaining packing box insert half can be removed.

The completely exposed packing and sleeve area coupled with the extra large access openings in the pump adapter provides the ultimate in packing accessibility.

Five (5) die-molded, diagonally split, packing rings complete with lantern ring line the stuffing box. The general service packing consists of graphited fiber.

The stuffing box length, bore, sleeve diameters and lantern ring width conform with the recommended standard of the Mechanical Packing Association (MPA).

A tapped opening is provided for lubricating the stuffing box. Lubrication is accomplished by adding grease directly into the lantern ring cavity through a grease fitting or by connecting a by-pass line between the pump discharge and the stuffing box. Automatic grease seals as well as other flushing options are also available.

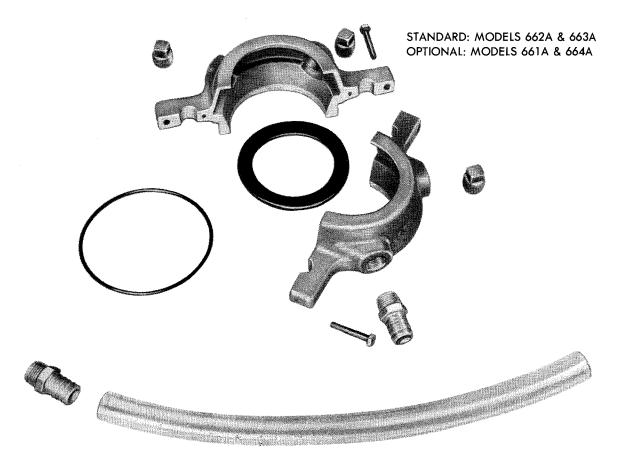
The standard 450 minimum brinnel hardened stainless steel shaft sleeve extends through the entire length of the box and gland and is provided with a snap ring. This snap ring design allows the sleeve and the completely assembled packing box to be removed intact. Reassembly can be accomplished in the same manner. Assemble the complete stuffing box at the convenience of the work bench, install and adjust the packing for proper lubrication leakage (5-10 drops per minute after run-in).



SECTION 660 PAGE 166
DATED NOVEMBER 1988

PAGE 166 — AURORA MODEL 660 PUMP ER 1988 LEAKAGE ACCUMULATOR

POWER FRAMES 4 & 5 ONLY



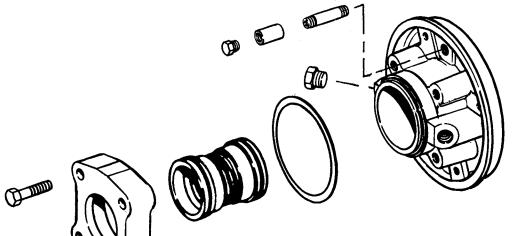
The leakage accumulator gland (sprayless, dripless packing gland) is designed and constructed to prevent the collection of packing leakage in the pump bracket of a vertical or horizontally mounted pump. The leakage accumulator gland has a volute shape with two symetrical halves. This gland encloses the water slinger preventing any spray from escaping and contaminating the area. The leakage is efficiently directed to a drain connection.

The two gland halves are doweled, bolted together, and sealed at the parting line with a soft liquid sealant. An "O" ring seal between the gland and packing box prevents any leakage in this area. One of the pipe tap ports on the side of the gland is fitted with a hose connector and a clear plastic section of hose, to both drain off and allow visual inspection of the leakage. The remaining ports have pipe plugs, but may be used for maintenance purposes to flush & drain debris from the accumulator.



AURORA MODEL 660 PUMP ____ SECTION 660 PAGE 167 **OPTIONS**

DATED NOVEMBER 1988



STANDARD: MODEL 664A

OPTIONAL: MODELS 661A, 662A & 663A

Double mechanical seals are recommended for gritty or abrasive applications. Seal faces are protected by clear water under pressure, injected directly into the seal cavity. Pressure in the seal box must be fifteen (15) lbs. higher than the operating pressure at the stuffing box of the pump. This forces the inner sealing faces closed and provides both faces with a film of clear sealant. If this is not done, a brasive particles may be forced under the sealing faces hastening wear. Even when the pump is not running, a pressure differential, or at least equal pressure in the seal box, is desirable. The sealant circulation for most pumping operations may be dead ended in the stuffing box. Pressures over 30 psi or RPM of 1200 max. require constant circulation to prevent overheating.

The seal box is designed for the compressed seal length and does not require any adjustments. The seal housing is extra large to provide excellent circulation of clear sealing liquid. The housing also has two tapped openings 180° apart for the flushing connections.

The standard shaft sleeve design is provided with a snap ring which allows the sleeve and the completely assembled seal box to be removed intact. Reassembly can be accomplished in the same manner. Assemble the complete seal box at the convenience of the work bench and install.



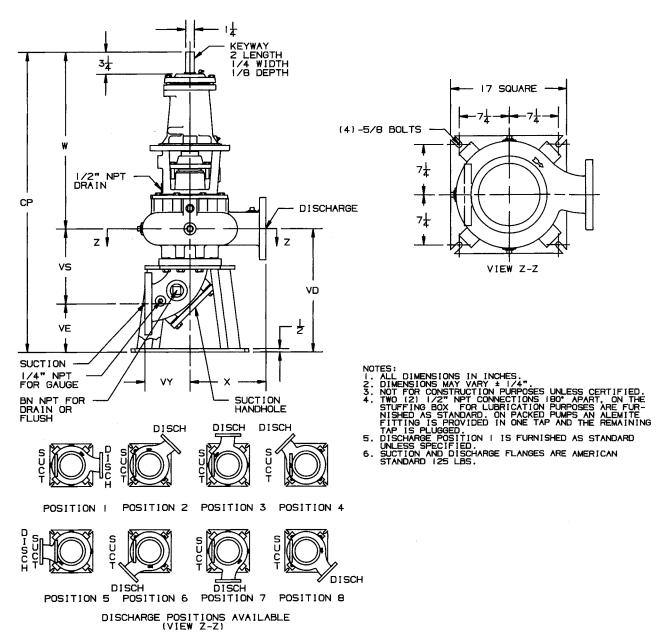
SLEEVES

Shaft sleeves, machined to close tolerances are optionally available in either bronze, 316 stainless steel, or monel.



AURORA MODEL 662A PUMP ____ SECTION 660 PAGE 203 3" & 4" PUMPS

DATED NOVEMBER 1988 **SUPERSEDES PAGE 203** DATED JUNE 1983

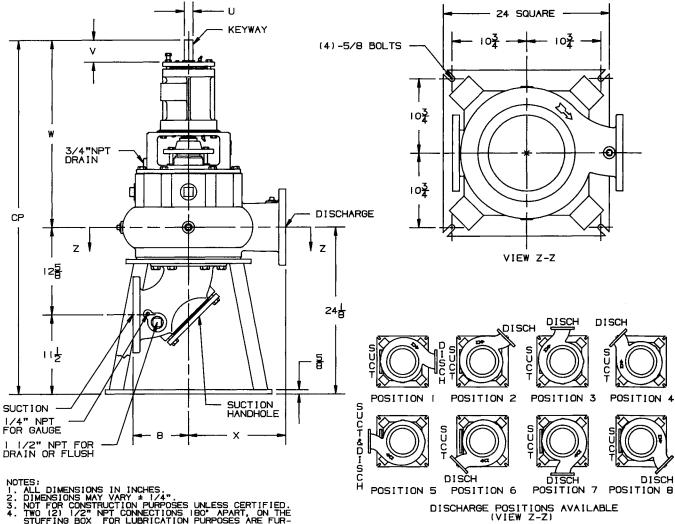


NOTE: PUMP SIZES $3\times3\times9$ AND $3\times3\times12$ DISCHARGE POSITIONS AVAILABLE ONLY IN 1, 3, 5, AND 7.

DISCH SUCT CASE BORE	POWER	BN	VY	w	×	CP	VD	VE	vs
3×3×9	3C	1	6 1/2	25 1/2	10	41 7/8	15 3/8	6 3/4	9 5/8
3x3x12	3C	1	6 1/2	25 5/8	13	42	16 3/8	6 3/4	9 5/8
4×4×9	3C	1 1/2	6 1/2	26 1/2	11	43 3/8	16 7/8	6 15/16	9 15/16
4x4x12	3C	1 1/2	6 1/2	26 5/8	13	43 1/2	16 7/8	6 15/16	9 15/16



SECTION 660 PAGE 204 ____ AURORA MODEL 662A PUMP __ 6" PUMPS



NOTES:
1. ALL DIMENSIONS IN INCHES.
2. DIMENSIONS MAY VARY ± 1/4".
3. NOT FOR CONSTRUCTION PURPOSES UNLESS CERTIFIED.
4. TWO 12) 1/2" NPT CONNECTIONS 180° APART, ON THE STUFFING BOX FOR LUBRICATION PURPOSES ARE FURNISHED AS STANDARD. ON PACKED PUMPS AN ALEMITE FITTING IS PROVIDED IN ONE TAP AND THE REMAINING TAP 1S PLUGGED.
5. DISCHARGE POSITION I IS FURNISHED AS STANDARD UNLESS SPECIFIED.
6. SUCTION AND DISCHARGE FLANGES ARE AMERICAN STANDARD 125 LBS.

FRAME					LENGTH	WIDTH	DEPTH
4C	-	1/4	3	3/16	2	1/4	1/8
5E	N	3/8	6	3/8	4	5/8	5/16

D1SCH SUCT CASE BORE	POWER FRAME	w		×	CP	
6x6x12	4C	27	1/8	14	51 1/4	
6x6x12	5E	38	1/8	14	62 1/4	
6x6x15	5E	38	1/8	16	62 1/4	

POWER

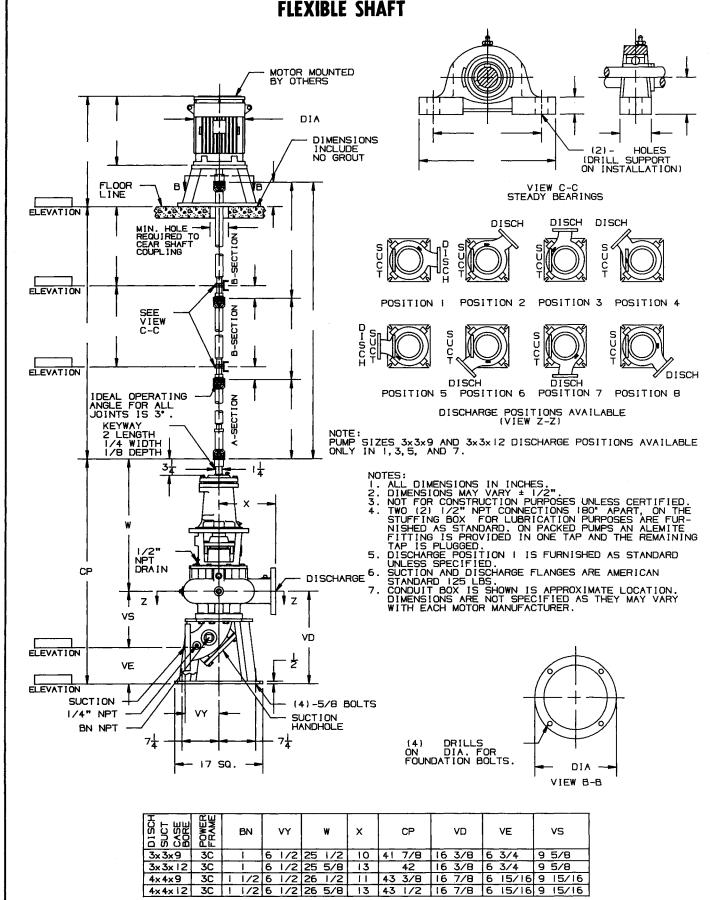
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KEYWAY

AURORA MODEL 662A PUMP _____ SECTION 660 PAGE 205 3" & 4"PUMPS

DATED NOVEMBER 1988

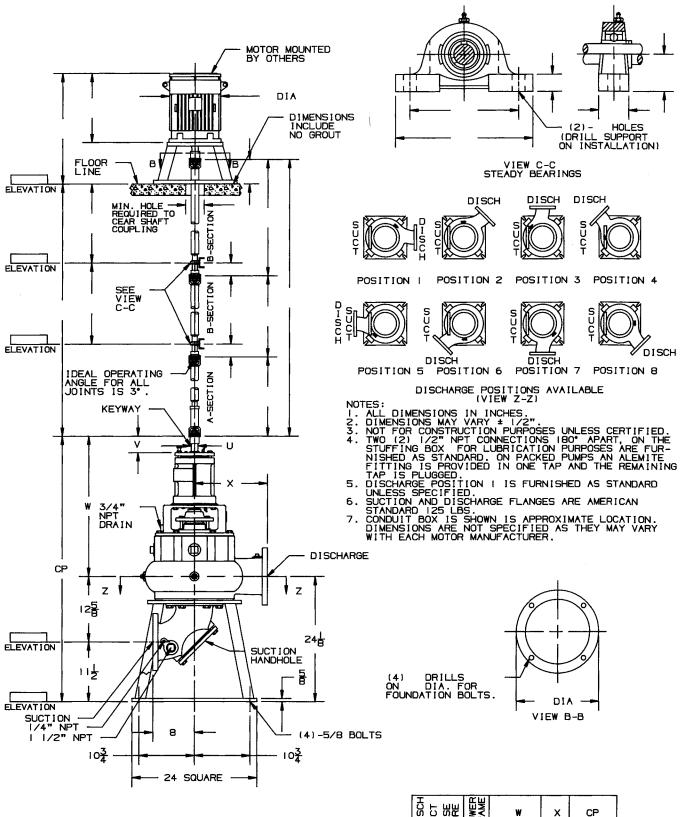


CID AURORA®

PENTAIR PUMP GROUP

DATED NOVEMBER 1988

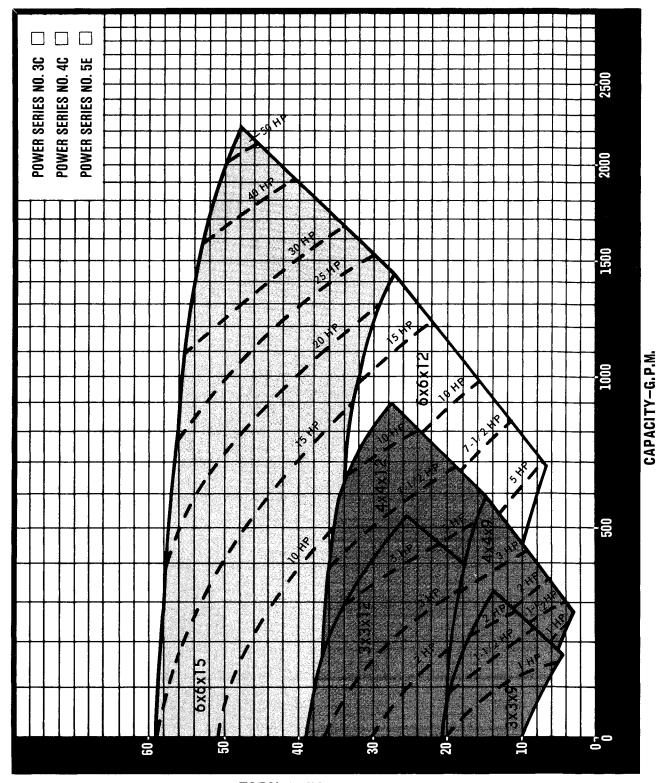
SECTION 660 PAGE 206 ____ AURORA MODEL 662A PUMP ___ 6" PUMPS FLEXIBLE SHAFT



POWER	U	V	KEYWAY		
FRAME			LENGTH	WIDTH	DEPTH
4C	1 1/4	3 3/16	2	1/4	1/8
5E	2 3/B	6 3/8	4	5/8	5/16

DISCH SUCT CASE BORE	POWEF	w		×	c	P
6x6x12	4C	27	178	14	51	1/4
6x6x12	5E	38	1/8	14	62	1/4
6x6x15	5E	38	1/8	16	62	1/4





TOTAL DYNAMIC HEAD-FEET

