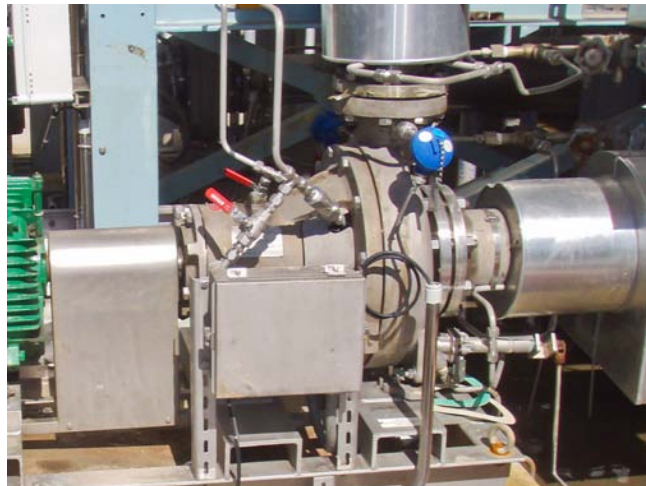




Wilfley pump with thermowells, vibration monitor, steam jacketed case

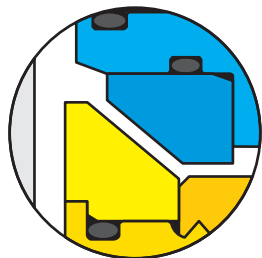


Wilfley pump with thermowells and crust breaker valve

70 years of proven reliability in Ammonium Nitrate production

Wilfley's original patented expeller and leadership in hydrodynamic sealing technology have eliminated the long standing problems of mechanical seal failures and product dilution associated with Ammonium Nitrate production and use.

Non-Contacting Seal Faces



0.020" (0.5mm)
seal face opening

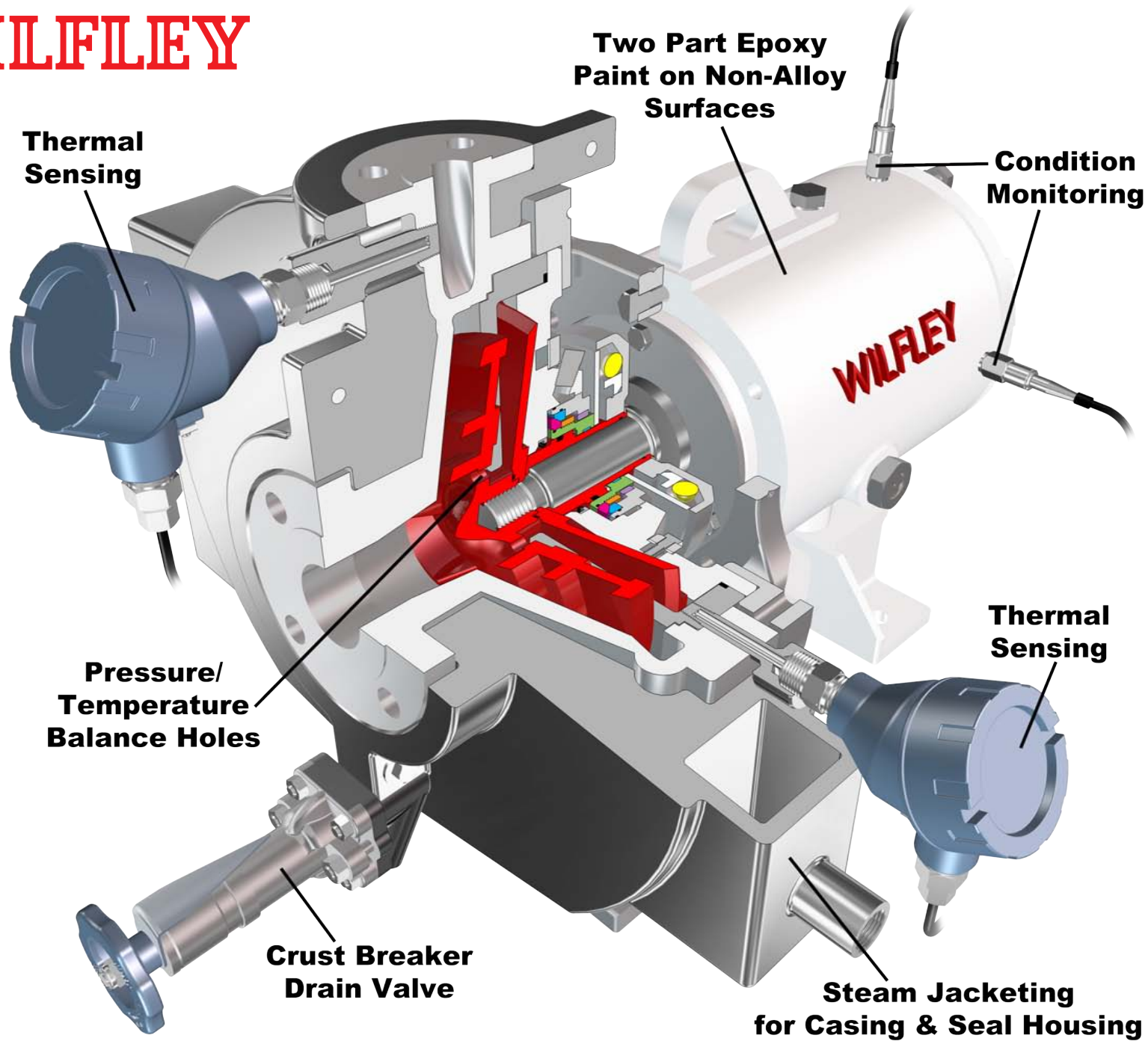
Features

- Proven static seal
- No rubbing parts during operation
- Multiple ports for flushing and draining
- 304L SS or 316L SS wet end parts

Options

- Optimized thermowell placement
- Duplex SS frame adapter
- High Strength Alloy Shaft
- Crust breaker valve on casing drain
- Full steam jacketing
- Automated clean out panels
- Condition monitoring

WILFLEY



WILFLEY

A.R. Wilfley & Sons, Inc.

7350 E. Progress Place, Englewood, Colorado, 80111, U.S.A.
 Tel: (303) 779-1777 / 1-800-525-9930 / Fax: (303) 779-1277 / www.wilfley.com
 EIN: 84-0353820

Serial number: A703032
 Date: 13-Jul-2015

GENEVA NITROGEN LLC
 1165 NORTH 1600 WEST

VINEYARD, UT 84057
 USA
 3512A

Customer pump number: P1405/P1406
 Description: 3A7 PUMP-3X1.5-13 (A20-13)
 Purchase order number: P05150
 Wilfley order number: 136861
 Purchase order date: 12/01/2011
 Ship date: 05/29/2012

Pump info	Conditions	Motor info	Solution info	
Matl: LOW CARBON 304L	Temp (F): 250	Frame: 286TC	Sol: AMMONIUM NITRATE	87
CPL: SS OMEGA	Spgr: 1.40	HP: 30	Sol:	
Speed: 1750	TDH (ft): 140	Speed: 1800	Sol:	
Intake: 3.000	M.I.H. (ft): 25	Cycle:	%SOLIDS: 0	
Dschg: 1.500	Flow GPM: 200	Encl: SE		
Gov wt: 0	NPSHa (Ft) .00	Drive		
Impeller: 12.75	NPSHr (Ft) .00	ARW sup: Y		

DUPLICATE TO A7 03033
 TAG # P1405

Bill of material listing for assembly number N731513 304L

Item #	Drawing #	Description	Material	Qty used
1	A2835 304L	Casing, TW, 150#; 3x1.5-13	LOW CARBON 304L	1
1A	HCS10036 6S	Hex Hd Cap Screw 5/8 X 2-1/4	316 STAINLESS	12
2	A2841	Jacket-For Casing 3 x 1.5-13		1
3	A0209F GYL	Case Gasket	GYLON	1
4	AG3301 CI	Case Foot-Left	CAST IRON	1
5	AG3302 CI	Case Foot-Right	CAST IRON	1
14	A0205F 304L	Impeller, Std (3 x 1.5 - 13)	LOW CARBON 304L	1
15	A0210FA 304L	Plate, Casing - 13"	LOW CARBON 304L	1
17	A2259-05 AB	Expeller, OPTI, No Groove, 12"	LOW CARBON 304L	1
18	ARP124 V/T	O'Ring, Shaft Sleeve	VTN ENCAPSULATED TFN	1
19	ARP129 V/T	O'Ring, Expeller	VTN ENCAPSULATED TFN	1
20	ARP134 V/T	O'Ring, Shaft	VTN ENCAPSULATED TFN	1
23	A2233-01H958	Ring, Stationary Seal		1
24A	ARP129 V/T	O'Ring, Expeller	VTN ENCAPSULATED TFN	1
24B	SLRPM420 T29	Slide Ring	TURCON 29	1
24C	SHCS04012C S	Capscrew 1/4-20 UNC x 3/4 18-8		4
24D	A0786 316S	Drive Screw Sleeve	316 STAINLESS	4
24J	A3034-02 AB	Rotary Seal Sleeve Drylock II	LOW CARBON 304	1
26	A1958-01 AB	Seal Cartridge	LOW CARBON 304	1
26H	A1960-01 RTN	Bushing, Throttle		1
26J	ARP047 KLRZ	O'Ring, Inboard Lock Ring	KALREZ	1
29	NP08064 316S	Pipe Nipple 1/2 X 4	316 STAINLESS	1
30	A2619-03 AB	Asy, Seal Hsg, 13", No Lip, ExpD, SJ	LOW CARBON 304	1
30A	ARP381 V/T	O'Ring, Seal Housing	VTN ENCAPSULATED TFN	1
30B	ARP046 KLRZ	O'Ring, Stationary Seal Ring	KALREZ	1
30H	PLG08 304L	Pipe Plug - 1/2"	LOW CARBON 304L	2
30S	A2939 6S	Posi-Lock	316 STAINLESS	1
30T	HCS04008 6S	Hex Hd Cap Screw 1/4 X 1/2	316 STAINLESS	1
31A	LSTJ4-02 6S3	Lip Seal, Hi Pres, 2.63", 316S/T3	316 STAINLESS	1
34	A1984-01 CD4	Drylock Ball Housing	CD4 MCU	1

(Continued on next page)

Bill of material listing for assembly number N731513 304L

Item #	Drawing #	Description	Material	Qty used
34A	RRHME400 18	Retaining Ring, Ext. Med Duty	18-8 STAINLESS	1
34B	RP01506 302S	Spring Pin	302 STAINLESS	1
34C	SQ02010 302S	Key, 1/8" X 1/8" X 5/8"	302 STAINLESS	1
39	A2077-01 AB	Shaft Sleeve	LOW CARBON 304	1
39A	RSHME243 18	Retaining Ring,Ext,Med Duty	18-8 STAINLESS	1
40	A0245F TFN	Retainer, Ball	TEFLON	1
40A	BALL10 316S	Ball (.625 Dia)	316 STAINLESS	6
42	SPG002-11 6S	Spring, Drylock	316 STAINLESS	1
43	A1965-01 CD4	Actuator Plate	CD4 MCU	1
61	A0495A 316S	"C" Frame	316 STAINLESS	1
61A	PLG08 316S	Pipe Plug - 1/2"	316 STAINLESS	1
61B	400-80	Oil Drain Plug - 1/2"		1
62	A0213F WMS	Shaft, Heavy Duty	MILD STEEL	1
62A	BRG312M	Bearing, Inboard		1
62B	BRG5312	Bearing, Outboard - Steel Cage		1
62C	BH-12	Locknut-Rear Bearing		1
62D	SQ04026 MS	Key, SQ 1/4 X 1-5/8	MILD STEEL	1
67	A0341-5 303S	Bearing Oil Seal, Inboard	303 STAINLESS	1
72	A0215F DI	Bearing Carrier, Std Duty	DUCTILE IRON	1
72A	ARP260 V/T	O'Ring, Bearing Carrier	VTN ENCAPSULATED TFN	1
72B	HJN10 316S	Hex Hd Jam Nut - 5/8	316 STAINLESS	3
73	BSHMI500 ZP	Beveled Snap Ring, Int, Med		1
75	HCS10024 6S	Hex Hd Cap Screw 5/8 X 1-1/2	316 STAINLESS	6
76	A0341-6 303S	Bearing Oil Seal, Outboard	303 STAINLESS	1
79	AG3043	Window Sight Glass		1
91	A1728 316L	Subbase (258)C-FACE	LOW CARBON 316	1
91G	SP001	Motor Shim Kit (4 Req)		4
92	A1026FA 316S	Guard Assy Fr 3 (143T-447TS)	316 STAINLESS	1
94	A0248FD MS	Guard, Frame- Seal & Exp Flush	MILD STEEL	1
94A	HCS05008 316	Hex Hd Cap Screw 5/16 x 1/2	316 STAINLESS	2
94B	FW05 6S	Plain Washer - 5/16	316 STAINLESS	2
100	WS10031CE SS	Serial Number Plate	STAINLESS STEEL	1
101	WS10005	Rotation Plate		1

CD4 DRYLOCK II BALL HOUSING
 UPDATED TO DRYLOCK II ONE-PIECE ROTARY SEAL
 SLEEVE - JM - 8/18/14
 31A CHANGED FROM LSTJ1-02 H25 TO LSTJ4-02 6S3 7/15

Pump info

Matl:
 CPL:
 Speed: 0
 Intake: .000
 Dschg: .000
 Gov wt: 0
 Impeller:

Conditions

Temp (F):
 Spgr: .00
 TDH (ft): 0
 M.I.H. (ft): 0
 Flow GPM: 0
 NPSHa (Ft) .00
 NPSHr (Ft) .00

Motor info

Frame:
 HP:
 Speed:
 Cycle:
 Encl:
 Drive
 ARW sup:

Solution info

Sol:
 Sol:
 Sol:
 %SOLIDS: 0

Bill of material listing for assembly number N731513 304L

Item #	Drawing #	Description	Material	Qty used
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