

DATE: 4/11/2017

INVITATION TO BID
THIS IS NOT AN ORDER

Page: 4

BID NO.: 50-00119494

JEFFERSON PARISH

PURCHASING DEPARTMENT
P.O. BOX 9
GRETN, LA. 70054-0009
504-364-2678

VENDOR:

BUYER: DREAMEY

As per LSA-RS 47:301 et seq., all governmental bodies are excluded from payment of sales taxes to any Louisiana taxing body. Quotations shall be based on F.O.B. Agency warehouse or jobsite, anywhere within the Parish as designated by the Purchasing Department.

JEFFERSON PARISH reserves the right to cancel all or any part of an order if not shipped promptly. No charges will be allowed for parking or cartage unless specified in quotation. The order must not be filled at a higher price than quoted. JEFFERSON PARISH reserves the right to cancel at any time and for any reason by issuing a THIRTY (30) day written notice to the contractor.

JEFFERSON PARISH is expecting all products to be new and all work is to be done in a workman-like manner, according to standard practices. Any deviations or alterations from the specifications must be indicated and backup documentation supplied with your quotation.

DELIVERY: FOB JEFFERSON PARISH

INDICATE DELIVERY DATE ON EQUIPMENT AND SUPPLIES

12-17 days

INDICATE STARTING TIME (IN DAYS) FOR CONSTRUCTION WORK

INDICATE COMPLETION TIME (IN DAYS) FOR CONSTRUCTION WORK

In the event that addenda are issued with this bid, bidders MUST acknowledge all addenda on the bid form. Bidder must acknowledge receipt of an addendum on the bid form as indicated. Failure to acknowledge any addendum on the bid form will result in bid rejection.

Acknowledge Receipt of Addenda: NUMBER: _____
NUMBER: _____
NUMBER: _____
NUMBER: _____

LOUISIANA CONTRACTOR'S LICENSE NO.: (if applicable) _____

*** ALL BIDDERS MUST COMPLETE SECTION BELOW ***	
FIRM NAME: <u>CIMSLO</u>	
SIGNATURE: (Must be signed here)	TITLE: <u>SALES</u>
PRINT OR TYPE NAME: <u>JEFF DEVERUE</u>	
ADDRESS: <u>1840 LKA RD.</u>	
CITY, STATE: <u>METairie, LA</u>	ZIP: <u>70001</u>
TELEPHONE: <u>504 835-7315</u>	FAX: <u>504 832-0820</u>
EMAIL ADDRESS: <u>JEFF@CIMSLOINC.COM</u>	

TOTAL PRICE OF ALL BID ITEMS: \$ 19720.00

DATE: 4/11/2017

INVITATION TO BID FROM JEFFERSON PARISH - continued

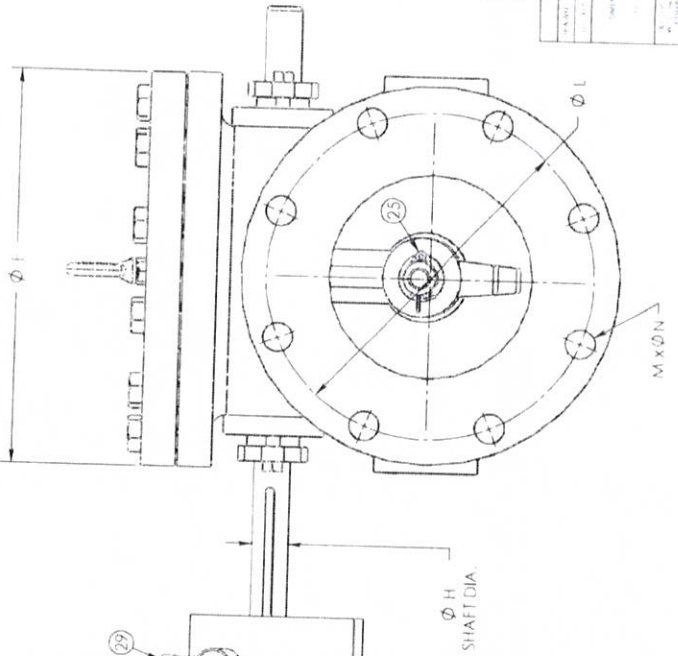
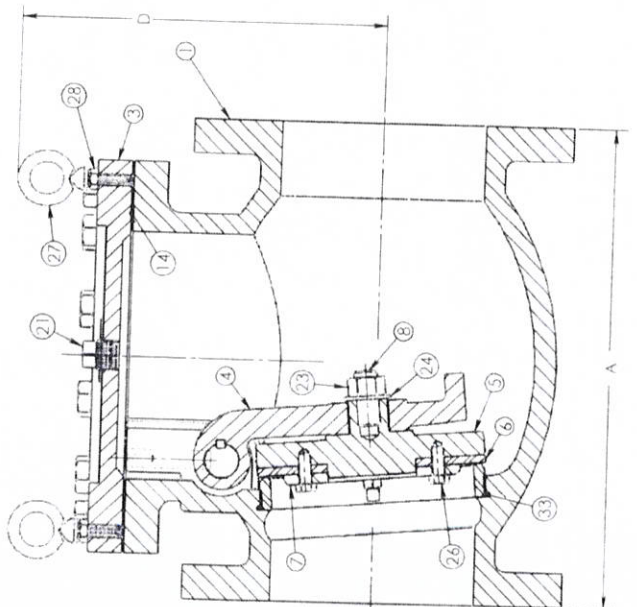
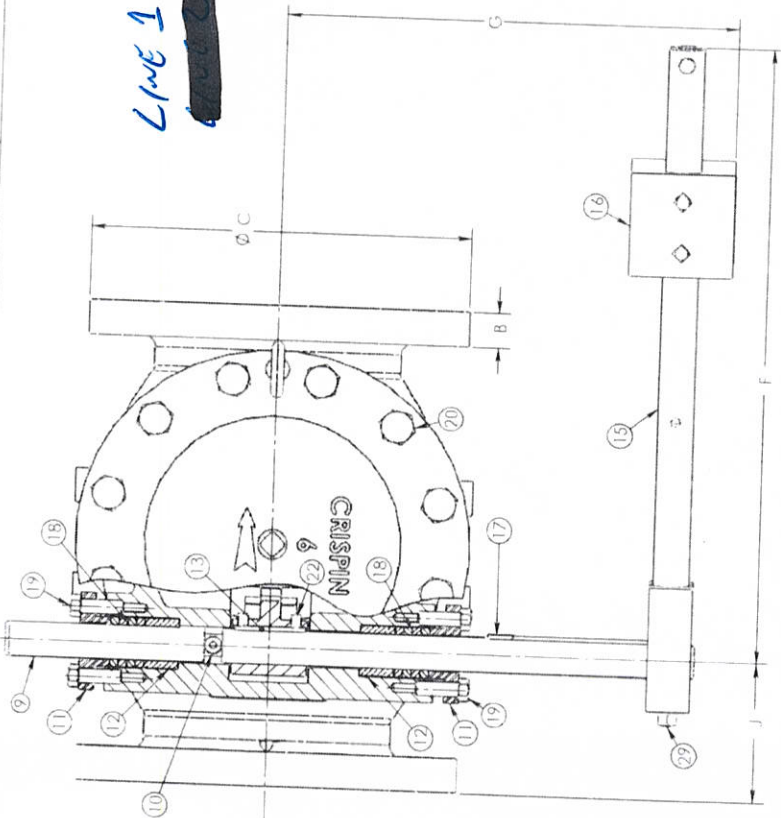
Page: 5

BID NO.: 50-00119494

SEALED BID

ITEM NUMBER	QUANTITY	U/M	DESCRIPTION OF ARTICLES	UNIT PRICE QUOTED	TOTALS
			ONE TIME PURCHASE.		
1	8.00	EA	0001 - Valve, check, 4 inch, 13 inch face to face, flanged, lever and weight, IBBM, bronze disc facing, epoxy coated, stainless steel nuts and bolts, domestic, American Flow no. C504A4H0703PRPR (0621680)	885 ⁰⁰	7080 ⁰⁰
2	4.00	EA	0002 - Valve, check, 6 inch, 17-1/2 inch face to face, flanged, lever and weight, and weight, IBBM, bronze disc facing, epoxy coated, stainless steel nuts and bolts, domestic, Golden Anderson figure no. 220 (0621730)	1275 ⁰⁰	5100 ⁰⁰
3	6.00	EA	0003 - Valve, check, wafer, 6 in, ductile iron body, external spring and lever, stainless steel hardware, 2-3/4 in face to face, ANSI class 150, ANSI B16.1, Enduro-Bond, KF Eagle series 18 no. 7394-126K419191 (0621930)	840 ⁰⁰	5040 ⁰⁰
4	4.00	EA	0004 - Valve, plug, 6 inch x 10-1/2 inch face to face, flanged, eccentric, cast iron body, solid ductile iron plug with nitrile elastomer coating, 100 percent port, nickel seat, Milliken no. 601N1FP-AG, with above ground gear operator with handwheel and operating nut. (0625020)	625 ⁰⁰	2500 ⁰⁰

LINE 1



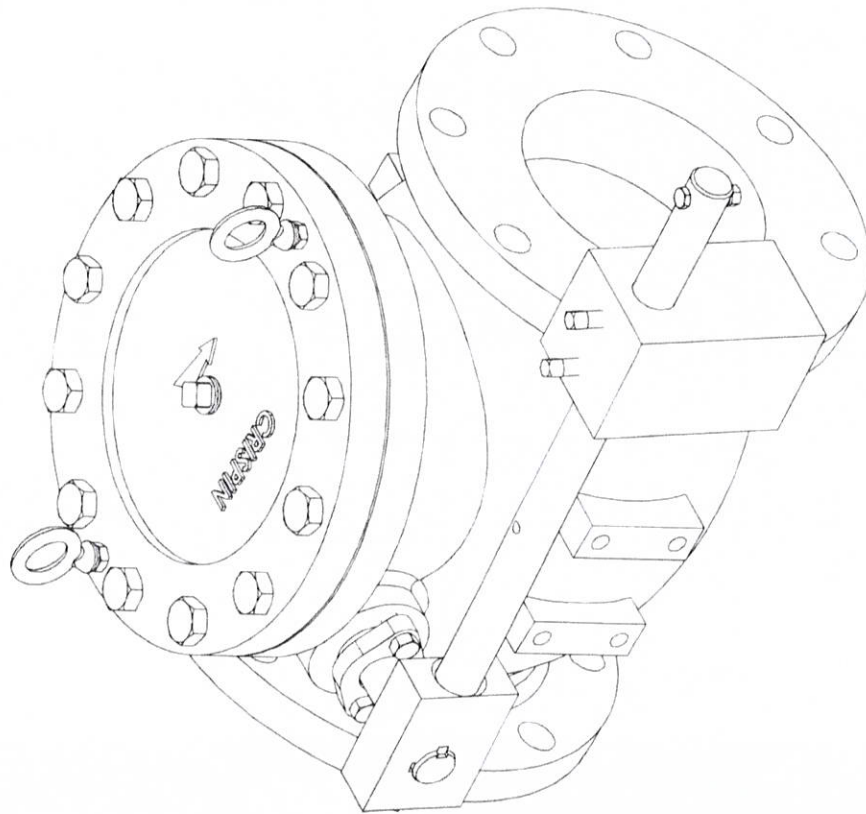
SWL Series Dimensions (Lever Weight)

SIZE	MODEL NO.	A	B	Ø C	D	Ø E	F	G	Ø H	J	Ø L	M x Ø N	WT. (LB)
3"	SWL31-LW	9.50	.75	7.50	8.20	7.31	12.00	8.79	.75	3.00	6.00	4 x .75	71
4"	SWL41-LW	11.50	.94	9.00	9.00	8.06	12.00	10.42	.87	3.75	7.50	8 x .75	121
6"	SWL61-LW	15.50	1.12	13.50	12.50	13.19	18.00	15.10	1.25	5.75	11.75	8 x .88	188
8"	SWL81-LW	19.50	1.19	16.00	14.94	16.50	18.00	17.04	1.25	7.25	14.25	12 x 1.00	370
10"	SWL101-LW	24.50	1.25	19.00	16.63	18.25	18.00	20.66	1.50	7.75	17.00	12 x 1.00	650
12"	SWL121-LW	27.50	1.38	21.00	18.94	21.50	24.75	24.41	2.00	8.50	18.75	12 x 1.12	858
14"	SWL141-LW	31.00	1.44	23.50	21.83	24.50	24.75	25.91	2.00	10.00	21.25	16 x 1.12	1007
16"	SWL161-LW	36.00	1.56	25.00	22.80	27.25	30.75	28.91	2.00	11.00	22.75	16 x 1.25	1360
18"	SWL181-LW	40.00	1.69	27.50	24.82	29.25	30.75	30.91	2.00	10.00	25.00	20 x 1.25	1823
20"	SWL201-LW	48.00	1.88	32.00	28.88	33.50	36.68	34.50	2.75	12.00	29.50	20 x 1.38	2240
24"	SWL241-LW	60.00	2.18	38.75	35.63	41.75	37.06	39.41	3.12	15.00	36.00	28 x 1.38	3535
30"	SWL301-LW	63.00	2.44	46.00	40.31	48.50	44.00	43.91	3.50	13.50	42.75	32 x 1.62	5906
36"	SWL361-LW												8345

* INCLUDED IN COST IS 2/EA FILLER FLANGES & 2/EA FLANGE PAKES 4/BOOTS & 6SKT TO MEET OLD STYLE LAY LENGTH. ASSEMBLED.

NOTES:
1. 250 PSIG MAX. WORKING PRESSURE
2. 500 PSIG HYDROSTATIC TEST PRESSURE

CRISPIN VALVES			
3" THRU 36" CLASS 125/150 SWING CHECK VALVE w/ LEVER & WEIGHT	SIZE	WT.	UNIT
	3"	71	1
	4"	121	1
	6"	188	1
	8"	370	1
	10"	650	1
	12"	858	1
	14"	1007	1
	16"	1360	1
	18"	1823	1
	20"	2240	1
	24"	3535	1
	30"	5906	1
	36"	8345	1



PARTS LIST		
ITEM	DESCRIPTION	MATERIAL
1	BODY	DUCTILE IRON A536 Gr 65-45-12
2	BODY SEAT	ASTM A351 Gr CF8M
3	COVER	DUCTILE IRON A536 Gr 65-45-12
4	DISC ARM	DUCTILE IRON A536 Gr 65-45-12
5	DISC	DUCTILE IRON A536 Gr 65-45-12
6	DISC SEAT	D2000 BUNA N RUBBER 70 DUROMETER
7	SEAT RETAINER	ASTI 304
8	STUD	18-8 STAINLESS STEEL
9	PIVOT SHAFT	A276 TYPE 304
10	PIVOT SHAFT PIN	BEARING BRONZE ALLOY 932 [SAE 660]
11	PACKING GLAND	CARBON STEEL
12	PIVOT SHAFT BUSHING	BEARING BRONZE ALLOY 932 [SAE 660]
13	INNER PIVOT SHAFT KEY	316 SS
14	COVER GASKET	KLINGERSIL C-4401
15	LEVER WELDMENT	CARBON STEEL
16	LEVER WEIGHT	ASTM A36
17	OUTER PIVOT SHAFT KEY	316 SS
18	PACKING	PTFE IMPREGNATED INTERLOCK BRAID
19	HEX HD CAP SCREW	18-8 STAINLESS STEEL
20	HEX HD CAP SCREW	STEEL, GR 5, ZINC PLTD
21	PIPE PLUG, SQ HD	CARBON STEEL
22	SOC SET SCREW, CUP PT.	18-8 STAINLESS STEEL
23	STD HEX HD NUT	18-8 STAINLESS STEEL
24	FLAT WASHER	18-8 STAINLESS STEEL
25	COITER PIN	18-8 STAINLESS STEEL
26	HEX HD CAP SCREW	18-8 STAINLESS STEEL
27	EYEBOLT	STEEL, ZINC PLATED
28	HEX HEAD JAM NUT	STEEL, ZINC PLATED
29	SQ HD SET SCREW	CARBON STEEL
30	HEX HD CAP SCREW	STEEL, GR 5, ZINC PLTD
31	STD HEX HEAD NUT	STEEL, ZINC PLATED
32	LOCK WASHER	STEEL, ZINC PLATED
33	O-RING	BUNA N DUROMETER 70

CRISPIN VALVES		
DATE	REV	TITLE
3/1/10	1	3" THRU 36" CLASS 125/150 SWING CHECK VALVE W/ LEVER WEIGHT
3/1/10	2	3" THRU 36" CLASS 125/150 SWING CHECK VALVE W/ LEVER WEIGHT
3/1/10	3	3" THRU 36" CLASS 125/150 SWING CHECK VALVE W/ LEVER WEIGHT
3/1/10	4	3" THRU 36" CLASS 125/150 SWING CHECK VALVE W/ LEVER WEIGHT
3/1/10	5	3" THRU 36" CLASS 125/150 SWING CHECK VALVE W/ LEVER WEIGHT
3/1/10	6	3" THRU 36" CLASS 125/150 SWING CHECK VALVE W/ LEVER WEIGHT
3/1/10	7	3" THRU 36" CLASS 125/150 SWING CHECK VALVE W/ LEVER WEIGHT
3/1/10	8	3" THRU 36" CLASS 125/150 SWING CHECK VALVE W/ LEVER WEIGHT
3/1/10	9	3" THRU 36" CLASS 125/150 SWING CHECK VALVE W/ LEVER WEIGHT
3/1/10	10	3" THRU 36" CLASS 125/150 SWING CHECK VALVE W/ LEVER WEIGHT
3/1/10	11	3" THRU 36" CLASS 125/150 SWING CHECK VALVE W/ LEVER WEIGHT
3/1/10	12	3" THRU 36" CLASS 125/150 SWING CHECK VALVE W/ LEVER WEIGHT
3/1/10	13	3" THRU 36" CLASS 125/150 SWING CHECK VALVE W/ LEVER WEIGHT
3/1/10	14	3" THRU 36" CLASS 125/150 SWING CHECK VALVE W/ LEVER WEIGHT
3/1/10	15	3" THRU 36" CLASS 125/150 SWING CHECK VALVE W/ LEVER WEIGHT
3/1/10	16	3" THRU 36" CLASS 125/150 SWING CHECK VALVE W/ LEVER WEIGHT
3/1/10	17	3" THRU 36" CLASS 125/150 SWING CHECK VALVE W/ LEVER WEIGHT
3/1/10	18	3" THRU 36" CLASS 125/150 SWING CHECK VALVE W/ LEVER WEIGHT
3/1/10	19	3" THRU 36" CLASS 125/150 SWING CHECK VALVE W/ LEVER WEIGHT
3/1/10	20	3" THRU 36" CLASS 125/150 SWING CHECK VALVE W/ LEVER WEIGHT
3/1/10	21	3" THRU 36" CLASS 125/150 SWING CHECK VALVE W/ LEVER WEIGHT
3/1/10	22	3" THRU 36" CLASS 125/150 SWING CHECK VALVE W/ LEVER WEIGHT
3/1/10	23	3" THRU 36" CLASS 125/150 SWING CHECK VALVE W/ LEVER WEIGHT
3/1/10	24	3" THRU 36" CLASS 125/150 SWING CHECK VALVE W/ LEVER WEIGHT
3/1/10	25	3" THRU 36" CLASS 125/150 SWING CHECK VALVE W/ LEVER WEIGHT
3/1/10	26	3" THRU 36" CLASS 125/150 SWING CHECK VALVE W/ LEVER WEIGHT
3/1/10	27	3" THRU 36" CLASS 125/150 SWING CHECK VALVE W/ LEVER WEIGHT
3/1/10	28	3" THRU 36" CLASS 125/150 SWING CHECK VALVE W/ LEVER WEIGHT
3/1/10	29	3" THRU 36" CLASS 125/150 SWING CHECK VALVE W/ LEVER WEIGHT
3/1/10	30	3" THRU 36" CLASS 125/150 SWING CHECK VALVE W/ LEVER WEIGHT
3/1/10	31	3" THRU 36" CLASS 125/150 SWING CHECK VALVE W/ LEVER WEIGHT
3/1/10	32	3" THRU 36" CLASS 125/150 SWING CHECK VALVE W/ LEVER WEIGHT
3/1/10	33	3" THRU 36" CLASS 125/150 SWING CHECK VALVE W/ LEVER WEIGHT



POTA-POX® PLUS SERIES N140F

PRODUCT PROFILE

GENERIC DESCRIPTION	Polyamidoamine Epoxy
COMMON USAGE	Innovative potable water coating which offers high-build edge protection and allows for application at a wide range of temperatures (down to 35°F or 2°C). For use on the interior and exterior of steel or concrete tanks, reservoirs, pipes, valves, pumps and equipment in potable water service.
COLORS	1211 Red, 1255 Beige, 00WH Tnemec White, 15BL Tank White, 39BL Delft Blue, 35GR Black. Note: Epoxies chalk with extended exposure to sunlight. Lack of ventilation, incomplete mixing, miscatalyzation or the use of heaters that emit carbon dioxide and carbon monoxide during application and initial stages of curing may cause yellowing to occur.
SPECIAL QUALIFICATIONS	Certified by NSF International in accordance with NSF/ANSI Std. 61 . Ambient air cured Series N140F is qualified for use on tanks and reservoirs of 1,000 gallons (3,785 L) capacity or greater, pipes 18 inches (46 cm) in diameter or greater and valves four (4) inches (10 cm) in diameter or greater. Series N140F is certified by NSF International in accordance with NSF/ANSI Std. 50 for pools and other recreational water facilities. Conforms to AWWA D 102 Inside Systems No. 1 and No. 2 . Contact your Tnemec representative for systems and additional information. A two-coat system at 4.0-6.0 dry mils (100-150 dry microns) per coat passes the performance requirements of MIL-PRF-4556F for fuel storage. Reference the "Search Listings" section of the NSF website at www.nsf.org for details on the maximum allowable DFT.
PERFORMANCE CRITERIA	Extensive test data available. Contact your Tnemec representative for specific test results.

COATING SYSTEM

SURFACER/FILLER/PATCHER	215, 217, 218
PRIMERS	Self-priming, 22, 91-H ₂ O, 94-H ₂ O, L140, L140F, N140, V140, V141
TOPCOATS	Interior: Series 22, FC22, L140, L140F, N140, N140F, V140, V140F, V141, 406 Exterior: Series 27, 66, L69, L69F, N69, N69F, V69, V69F, 72, 73, L140, L140F, N140, N140F, V140, V140F, 156, 157, 161, 175, 180, 181, 446, 740, 750, 1028, 1029, 1074, 1074U, 1075, 1075U, 1077, 1078, 1080, 1081. Refer to COLORS on applicable topcoat data sheets for additional information. Note: The following recoat times apply for Series N140F. Immersion Service—Surface must be scarified by blasting with fine abrasive after 30 days. Atmospheric Service—After 30 days, scarification or an epoxy tie-coat is required. When topcoating with Series 740 or 750, recoat time for N140F is 14 days. Contact your Tnemec representative for specific recommendations.

SURFACE PREPARATION

PRIMED STEEL	Immersion Service: Scarify the epoxy prime coat surface by abrasive blasting with fine abrasive before topcoating if it has been exterior exposed for 30 days or longer and N140F is the specified topcoat.
STEEL	Immersion Service: SSPC-SP10/NACE 2 Near-White Blast Cleaning with a minimum angular anchor profile of 1.5 mils. Non-Immersion Service: SSPC-SP6/NACE 3 Commercial Blast Cleaning with a minimum angular anchor profile of 1.5 mils.
CAST/DUCTILE IRON	Contact your Tnemec Representative or Tnemec Technical Services.
CONCRETE	Allow new concrete to cure 28 days. For optimum results and/or immersion service, abrasive blast referencing SSPC-SP13/NACE 6, ICRI-CSP 2-1 Surface Preparation of Concrete and Tnemec's Surface Preparation and Application Guide. Fill all holes, pits, voids and cracks with 215 or 218.
ALL SURFACES	Must be clean, dry and free of oil, grease and other contaminants.

TECHNICAL DATA

VOLUME SOLIDS	68.0 ± 2.0% (mixed) †																								
RECOMMENDED DFT	2.0 to 10.0 mils (50 to 225 microns) per coat. Note: MIL-PRF-4556F applications require two coats at 4.0-6.0 mils (100-150 microns) per coat. Otherwise, the number of coats and thickness requirements will vary with substrate, application method and exposure. Contact your Tnemec representative.																								
CURING TIME AT 5 MILS DFT	<table><tr><th>Temperature</th><th>To Handle</th><th>To Recoat</th><th>Immersion</th></tr><tr><td>75°F (24°C)</td><td>4 hours</td><td>5 hours</td><td>7 days</td></tr><tr><td>65°F (18°C)</td><td>7-8 hours</td><td>9-11 hours</td><td>8 days</td></tr><tr><td>55°F (13°C)</td><td>12-14 hours</td><td>16-20 hours</td><td>9-10 days</td></tr><tr><td>45°F (7°C)</td><td>18-22 hours</td><td>28-32 hours</td><td>12-13 days</td></tr><tr><td>35°F (2°C)</td><td>28-32 hours</td><td>46-50 hours</td><td>16-18 days</td></tr></table> <p>Curing time varies with surface temperature, air movement, humidity and film thickness. Note: For valve applications allow 14 days cure at 75°F (24°C) prior to immersion. For pipe applications allow 30 days cure at 75°F (24°C) prior to immersion. Ventilation: When used in enclosed areas, provide adequate ventilation during application and cure. Note: Refer to product listings on www.nsf.org for specific potable water return to service information.</p>	Temperature	To Handle	To Recoat	Immersion	75°F (24°C)	4 hours	5 hours	7 days	65°F (18°C)	7-8 hours	9-11 hours	8 days	55°F (13°C)	12-14 hours	16-20 hours	9-10 days	45°F (7°C)	18-22 hours	28-32 hours	12-13 days	35°F (2°C)	28-32 hours	46-50 hours	16-18 days
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VOLATILE ORGANIC COMPOUNDS	Unthinned: 2.3 lbs/gallon (273 grams/litre) Thinned 5% (#60): 2.5 lbs/gallon (299 grams/litre) Thinned 10% (#4): 2.7 lbs/gallon (323 grams/litre) †																								
HAPS	Unthinned: 2.3 lbs/gal solids Thinned 5% (#60): 2.3 lbs/gal solids Thinned 10% (#4): 3.1 lbs/gal solids																								
THEORETICAL COVERAGE	1.094 mil sq ft/gal (26.8 m ² /L at 25 microns). See APPLICATION for coverage rates. †																								
NUMBER OF COMPONENTS	Two: Part A (amine) and Part B (epoxy) — One (Part A) to one (Part B) by volume.																								
PACKAGING	5 gallon (18.9L) pails and 1 gallon (3.79L) cans — Order in multiples of 2.																								

POTA-POX® PLUS | SERIES N140F

NET WEIGHT PER GALLON	12.68 ± 0.25 lbs (5.75 ± 1.1 kg) (mixed) †
STORAGE TEMPERATURE	Minimum 20°F (-7°C) Maximum 110°F (43°C) For optimum application properties, material temperature should be above 60°F (16°C) prior to application.
TEMPERATURE RESISTANCE	(Dry) Continuous 250°F (121°C) Intermittent 275°F (135°C)
SHELF LIFE	Part A: 24 months; Part B: 12 months at recommended storage temperature.
FLASH POINT - SETA	Part A: 82°F (28°C) Part B: 80°F (27°C)
HEALTH & SAFETY	Paint products contain chemical ingredients which are considered hazardous. Read container label warning and Material Safety Data Sheet for important health and safety information prior to the use of this product. Keep out of the reach of children.

APPLICATION

COVERAGE RATES

	Dry Mils (Microns)	Wet Mils (Microns)	Sq Ft/Gal (m²/Gal)
Suggested	6.0 (150)	9.0 (230)	182 (16.9)
Minimum	2.0 (50)	3.0 (75)	545 (50.7)
Maximum	10.0 (225)	15.0 (375)	109 (10.1)

Note: Roller or brush application requires two or more coats to obtain recommended film thickness. Allow for overspray and surface irregularities. Wet film thickness is rounded to the nearest 0.5 mil or 5 microns. Application of coating below minimum or above maximum recommended dry film thicknesses may adversely affect coating performance. Reference the "Search Listings" section of the NSF website at www.nsf.org for details on the maximum allowable DFL. †

MIXING

1. Start with equal amounts of both Parts A & B.
2. Using a power mixer, separately stir Parts A & B.
3. Add Part A to Part B under agitation, stir until thoroughly mixed.
4. Both components should be above 50°F (10°C) prior to mixing. For application to surfaces between 35°F to 50°F (2°C to 10°C), allow mixed material to stand thirty (30) minutes and restir before using. For optimum application properties, blended components should be above 40°F (4°C).

THINNING

N140F: Use No. 4 or No. 60 Thinner. For air spray, thin up to 10% or 3/4 pint (380 mL) per gallon with No. 4 Thinner or thin up to 5% or 1/4 pint (190 mL) per gallon with No. 60 Thinner. For airless spray, roller or brush, thin up to 5% or 1/4 pint (190 mL) per gallon. **Caution: Series N140F NSF certification is based on thinning with No. 4 or No. 60 Thinner for tanks and only No. 60 Thinner for pipe and valves.** Use of any other thinner voids NSF/ANSI Std. 61 certification. V140F: Use No. 4 Thinner. **Caution: Series V140F NSF certification is based on thinning with No. 4 Thinner only.** Use of any other thinner voids NSF/ANSI Std. 61 certification. **Note:** When using Series V140F, a maximum of 4.5% of No. 4 Thinner may be used to comply with VOC regulations.

POT LIFE

2 hours at 50°F (10°C) 1 hour at 75°F (24°C) 30 minutes at 100°F (38°C)

SPRAY LIFE

30 minutes at 75°F (24°C)

APPLICATION EQUIPMENT

Note: Spray application after listed times will adversely affect ability to achieve recommended dry film thickness.

Air Spray

Gun	Fluid Tip	Air Cap	Air Hose ID	Mat'l Hose ID	Atomizing Pressure	Pot Pressure
DeVilbiss JGA	E	705 or 704	5/16" or 3/8" (7.9 or 9.5 mm)	3/8" or 1/2" (9.5 or 12.7 mm)	75-100 psi (5.2-6.9 bar)	10-20 psi (0.7-1.4 bar)

Low temperatures or longer hoses require higher pot pressure.

Airless Spray

Tip Orifice	Atomizing Pressure	Mat'l Hose ID	Manifold Filter
0.015"-0.019" (380-485 microns)	3000-4800 psi (207-330 bar)	1/4" or 3/8" (6.4 or 9.5 mm)	60 mesh (250 microns)

Use appropriate tip/atomizing pressure for equipment, applicator technique and weather conditions.

Roller: Use 3/8" or 1/2" (9.5 mm to 12.7 mm) synthetic woven nap roller cover. Use longer nap to obtain penetration on rough or porous surfaces.

Brush: Recommended for small areas only. Use high quality natural or synthetic bristle brushes.

SURFACE TEMPERATURE

Minimum 35°F (2°C) Maximum 135°F (57°C)

The surface should be dry and at least 5°F (3°C) above the dew point. Coating won't cure below minimum surface temperature.

CLEANUP

Flush and clean all equipment immediately after use with the recommended thinner or MEK.

† Values may vary with color.

WARRANTY & LIMITATION OF SELLER'S LIABILITY: Tnemec Company, Inc. warrants only that its coatings represented herein meet the formulation standards of Tnemec Company, Inc. THE WARRANTY DESCRIBED IN THE ABOVE PARAGRAPH SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. The buyer's sole and exclusive remedy against Tnemec Company, Inc. shall be for replacement of the product in the event a defective condition of the product should be found to exist and the exclusive remedy shall not have failed its essential purpose as long as Tnemec is willing to provide comparable replacement product to the buyer. NO OTHER REMEDY INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, ENVIRONMENTAL INJURIES OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS SHALL BE AVAILABLE TO THE BUYER. Technical and application information herein is provided for the purpose of establishing a general profile of the coating and proper coating application procedures. Test performance results were obtained in a controlled environment and Tnemec Company makes no claim that these tests or any other tests, accurately represent all environments. As application, environmental and design factors can vary significantly, due care should be exercised in the selection and use of the coating.

Tnemec Company Incorporated 6800 Corporate Drive Kansas City, Missouri 64120-1372 1-800-TNEMEC1 Fax: 1-816-483-3969 www.tnemec.com

Heavy Duty AWWA C508

LEVER AND WEIGHT SWING CHECK VALVES

Straight Through, Single- or Double Increasing

Line 2

FIGURE 220 STRAIGHT THROUGH

SIZE (Inlet and Outlet)	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
A	12	13	17-1/2	18	23	28	33	36	40	40	48
B	7	8-1/2	9	12	14	16	22	23	24	24	28
C	5	5	6	9	9	11	13	14	18	18	20
D	10	11	12	14	15	17	20	24	28	28	34
E	5	5	7	8	9	11	14	16	18	18	21
WGT	100	150	230	310	480	970	1480	1800	1400	2800	6000

Dimensions in inches, weight in pounds. Consult factory for larger sizes.

FIGURE 221 SINGLE-INCREASING

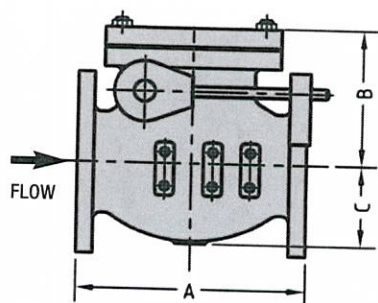
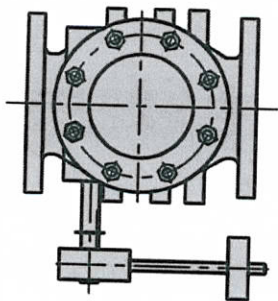
SIZE (Inlet x Outlet)	3" X 4"	4" X 6"	6" X 8"	8" X 10"	10" X 12"
A	12	13	17-1/2	18	23
B	7	8-1/2	9	12	14
C	5	5	6	9	9
D	10	11	12	14	15
E	5	5	7	8	9
WGT	120	175	250	350	525

Dimensions in inches, weight in pounds. Inlet is nominal size of valve.

FIGURE 222 DOUBLE-INCREASING

SIZE (Inlet x Outlet)	4" X 8"	6" X 10"	8" X 12"
A	13-1/2	18-7/8	22-1/4
B	8-1/2	9	12
C	5	6	9
D	11	12	14
E	5	7	8
WGT	180	270	390

Dimensions in inches, weight in pounds. Inlet is nominal size of valve.

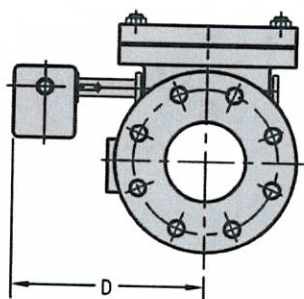


LEVER and WEIGHT FIGURE NUMBERS				
	Straight Through		Single-Increasing	Double-Increasing
Flanges per ANSI B16.1	316 Stainless Steel Body Seat*	Bronze Body Seat**	316 Stainless Steel Body Seat	316 Stainless Steel Body Seat
Class 125	220-DS	220-D	221-DS	222-DS
Class 250	220-US	220-U	221-US	222-US

* Standard 3" to 12", ** Standard 14" to 24"

For Metal-to-Metal Seating, Suffix "M," e.g., Figure 220-DM, Figure 222-USM

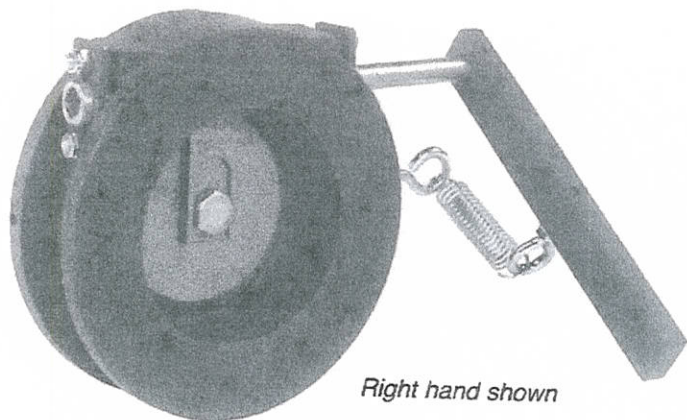
For Vertical Installation, Suffix "A," e.g., Figure 220-DAM, Figure 222-UASM



NOTE:

Standard position of lever and weight is on right side facing inlet. Opposite side can be provided upon order or position can be changed in the field.

Milliken Wafer Check Valve Figure 700



Right hand shown

- Narrow Face-to-Face
- Heavy Duty Cast Iron Body
- 316 Stainless Steel Internals
- Spring Assisted Closure
- Reversible Spring Arm Assembly
- Elastomer Seat in Body
- Unobstructed Round Port
- Disc Position Indicator
- Manual Override Lever
- Economical Alternative

SCOPE OF THE LINE: WAFER CHECK VALVE

SPECIAL: STAINLESS STEEL HARDWARE

Sizes

3" - 12"

Body

The compact wafer body is constructed of ASTM A-126 Class B cast iron. This short face-to-face dimension means less space is required than with traditional flanged swing check valves.

Seat

Numerous "O" ring seat materials are available. Positive retention of the seat is accomplished by the dovetail groove machined in the valve body. This groove reduces the possibility of the "O" ring being displaced from the body while allowing removal and replacement during maintenance.

Packing

Split rings of PTFE packing are employed to prevent leakage through the shaft, and can be adjusted when necessary.

Shaft / Bushings

The one piece 316 stainless steel shaft is supported by two (2) bronze bushings to insure proper alignment of the disc and seat. The design allows the shaft/arm to be field changed to either left or right hand positions.

Disc

A corrosion resistant 316 stainless steel disc is used to reduce the chance of disc failure. Precision machining of the mating surface provides uniform contact between the disc and seat.

Disc Arm

Continuing the concept of 316 stainless steel internals the disc arm is manufactured of 316 stainless steel. The arm is attached to the disc and shaft by use of stainless steel fasteners.

Spring / Arm Assembly

The spring arm assembly provides both positive indication of the disc position as well as serving as a manual override for use in back flushing the system. The spring allows the valve to operate properly even if installed in a vertical line. The spring also permits a predetermined line pressure to be reached prior to the valve opening. Optional weight is available.

Flow

Round unobstructed ports translate to higher flow capabilities than are possible with other types of wafer check valves.

General

Check valve shall be of the short face-to-face type with external spring to ensure tight shutoff. The pressure rating shall be 200 psi.

Valve Bodies

Valve bodies shall be of ASTM A-126 Class B cast iron. Disc and disc arm shall be of ASTM A-743 Grade CF8M stainless steel.

Valve Shaft

The valve shaft shall be manufactured of ASTM A-276 Grade 316 stainless steel and supported by two (2) SAE 660 bronze bearings. Shaft sealing shall be accomplished by multiple rings of braided PTFE Teflon rings. Packing shall be utilized on each side of the valve.

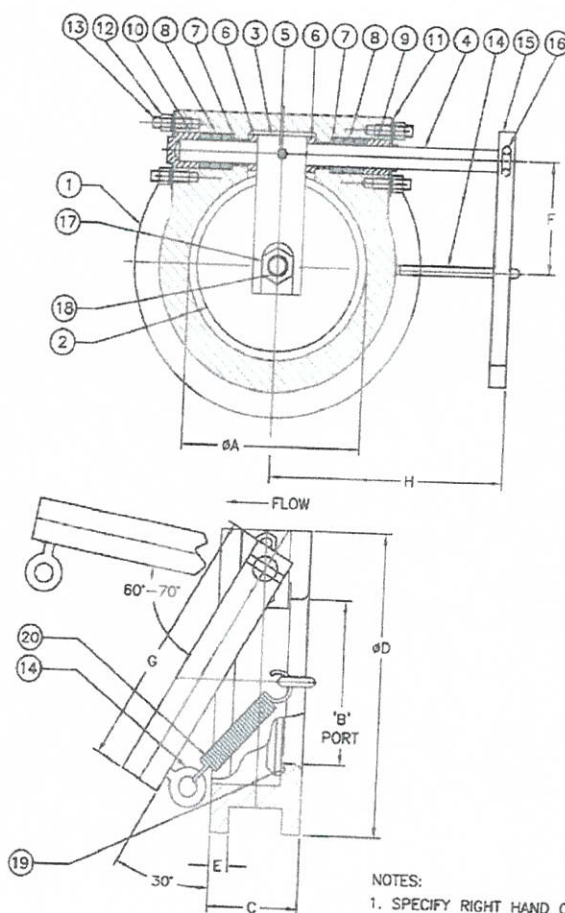
Arm Assembly

The design of the valve shall be such that spring/arm assembly can be field changed from right to left. The closure spring shall be manufactured of ASTM A-228 spring steel. The spring arm shall be constructed of carbon steel ASTM A-36 and designed to provide disc position indication. The spring arm shall be capable of overriding the spring action for use as an override lever.

Valve Seat

The valve seat shall be of specified O-ring material and retained in a dovetail groove in the valve body.

ITEM	QTY.	COMPONENT	MATERIAL/SPEC.
20	1	SPRING	STAINLESS STEEL
19	1	O-RING SEAT	AS SPECIFIED
18	1	THREADED ROD	316 S.S.
17	1	NUT	316 S.S.
16	1	SPRING PIN	STEEL
15	1	SPRING ARM	STEEL ASTM A36
14	2	EYEBOLT	STAINLESS STEEL
13	4	THREADED ROD	STAINLESS STEEL
12	4	NUT	STAINLESS STEEL
11	2	PLATE	STEEL ASTM A36
10	1	BLIND GLAND	BRONZE SAE 660
9	1	PACKING GLAND	BRONZE SAE 660
8	AR	PACKING	P.T.F.E.
7	2	WASHER	BRONZE SAE 660
6	2	BUSHING	BRONZE SAE 660
5	1	S.H. CAP SCREW	316 S.S.
4	1	SHAFT	316 S.S.
3	1	DISC ARM	ASTM A-743 CF8M
2	1	DISC	ASTM A-743 CF8M
1	1	BODY	A126 CL.B IRON
ITEM	QTY.	COMPONENT	MATERIAL/SPEC.



NOTES:

1. SPECIFY RIGHT HAND OR LEFT HAND WHEN ORDERING.
2. RIGHT HAND SHOWN.

SIZE	A	B	C	D	E	F	G	H	WT. LB.
3	2.63	2.06	3.75	5.25	0.50	2.13	3.75	5.00	18
4	3.63	3.03	2.25	6.88	0.44	2.13	7.00	6.00	13
6	5.44	4.75	2.75	8.75	0.56	3.25	7.25	7.13	27
8	7.25	6.44	2.88	11.00	0.63	4.00	8.75	8.06	42
10	8.50	7.63	3.13	13.13	0.88	4.88	11.25	9.50	63
12	10.44	9.50	3.50	16.13	0.88	5.88	13.25	13.88	96



POTA-POX® PLUS SERIES N140F

PRODUCT PROFILE

GENERIC DESCRIPTION	Polyamidoamine Epoxy
COMMON USAGE	Innovative potable water coating which offers high-build edge protection and allows for application at a wide range of temperatures (down to 35°F or 2°C). For use on the interior and exterior of steel or concrete tanks, reservoirs, pipes, valves, pumps and equipment in potable water service.
COLORS	1211 Red, 1255 Beige, 00WH Tnemec White, 15BL Tank White, 39BL Delft Blue, 35GR Black. Note: Epoxies chalk with extended exposure to sunlight. Lack of ventilation, incomplete mixing, miscatalyzation or the use of heaters that emit carbon dioxide and carbon monoxide during application and initial stages of curing may cause yellowing to occur.
SPECIAL QUALIFICATIONS	Certified by NSF International in accordance with NSF/ANSI Std. 61 . Ambient air cured Series N140F is qualified for use on tanks and reservoirs of 1,000 gallons (3,785 L) capacity or greater, pipes 18 inches (46 cm) in diameter or greater and valves four (4) inches (10 cm) in diameter or greater. Series N140F is certified by NSF International in accordance with NSF/ANSI Std. 50 for pools and other recreational water facilities. Conforms to AWWA D 102 Inside Systems No. 1 and No. 2 . Contact your Tnemec representative for systems and additional information. A two-coat system at 4.0-6.0 dry mils (100-150 dry microns) per coat passes the performance requirements of MIL-PRF-4556F for fuel storage. Reference the "Search Listings" section of the NSF website at www.nsf.org for details on the maximum allowable DFT.
PERFORMANCE CRITERIA	Extensive test data available. Contact your Tnemec representative for specific test results.

COATING SYSTEM

SURFACER/FILLER/PATCHER	215, 217, 218
PRIMERS	Self-priming, 22, 91-H ₂ O, 94-H ₂ O, L140, L140F, N140, V140, 141
TOPCOATS	Interior: Series 22, FC22, L140, L140F, N140, N140F, V140, V140F, 141, 406 Exterior: Series 27, 66, L69, L69F, N69, N69F, V69, V69F, 72, 73, L140, L140F, N140, N140F, V140, V140F, 156, 157, 161, 175, 180, 181, 446, 740, 750, 1028, 1029, 1074, 1074U, 1075, 1075U, 1077, 1078, 1080, 1081. Refer to COLORS on applicable topcoat data sheets for additional information. Note: The following recoat times apply for Series N140F. Immersion Service: Surface must be scarified by blasting with fine abrasive after 30 days. Atmospheric Service: After 30 days, scarification or an epoxy tie-coat is required. When topcoating with Series 740 or 750, recoat time for N140F is 14 days. Contact your Tnemec representative for specific recommendations.

SURFACE PREPARATION

PRIMED STEEL	Immersion Service: Scarify the epoxy prime coat surface by abrasive blasting with fine abrasive before topcoating if it has been exterior exposed for 30 days or longer and N140F is the specified topcoat.
STEEL	Immersion Service: SSPC-SP10/NACE 2 Near-White Blast Cleaning with a minimum angular anchor profile of 1.5 mils. Non-Immersion Service: SSPC-SP6/NACE 3 Commercial Blast Cleaning with a minimum angular anchor profile of 1.5 mils.
CAST/DUCTILE IRON	Contact your Tnemec Representative or Tnemec Technical Services.
CONCRETE	Allow new concrete to cure 28 days. For optimum results and/or immersion service, abrasive blast referencing SSPC-SP13/NACE 6, ICRI-CSP 2-4 Surface Preparation of Concrete and Tnemec's Surface Preparation and Application Guide. Fill all holes, pits, voids and cracks with 215 or 218.
ALL SURFACES	Must be clean, dry and free of oil, grease and other contaminants.

TECHNICAL DATA

VOLUME SOLIDS	68.0 ± 2.0% (mixed) †																								
RECOMMENDED DFT	2.0 to 10.0 mils (50 to 225 microns) per coat. Note: MIL-PRF-4556F applications require two coats at 4.0-6.0 mils (100-150 microns) per coat. Otherwise, the number of coats and thickness requirements will vary with substrate, application method and exposure. Contact your Tnemec representative.																								
CURING TIME AT 5 MILS DFT	<table><tr><th>Temperature</th><th>To Handle</th><th>To Recoat</th><th>Immersion</th></tr><tr><td>75°F (24°C)</td><td>4 hours</td><td>5 hours</td><td>7 days</td></tr><tr><td>65°F (18°C)</td><td>7-8 hours</td><td>9-11 hours</td><td>8 days</td></tr><tr><td>55°F (13°C)</td><td>12-14 hours</td><td>16-20 hours</td><td>9-10 days</td></tr><tr><td>45°F (7°C)</td><td>18-22 hours</td><td>28-32 hours</td><td>12-13 days</td></tr><tr><td>35°F (2°C)</td><td>28-32 hours</td><td>40-50 hours</td><td>16-18 days</td></tr></table> <p>Curing time varies with surface temperature, air movement, humidity and film thickness. Note: For valve applications allow 14 days cure at 75°F (24°C) prior to immersion. For pipe applications allow 30 days cure at 75°F (24°C) prior to immersion. Ventilation: When used in enclosed areas, provide adequate ventilation during application and cure. Note: Refer to product listings on www.nsf.org for specific potable water return to service information.</p>	Temperature	To Handle	To Recoat	Immersion	75°F (24°C)	4 hours	5 hours	7 days	65°F (18°C)	7-8 hours	9-11 hours	8 days	55°F (13°C)	12-14 hours	16-20 hours	9-10 days	45°F (7°C)	18-22 hours	28-32 hours	12-13 days	35°F (2°C)	28-32 hours	40-50 hours	16-18 days
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35°F (2°C)	28-32 hours	40-50 hours	16-18 days																						
VOLATILE ORGANIC COMPOUNDS	Unthinned: 2.3 lbs/gallon (273 grams/litre) Thinned 5% (#60): 2.5 lbs/gallon (299 grams/litre) Thinned 10% (#4): 2.7 lbs/gallon (323 grams/litre) †																								
HAPS	Unthinned: 2.3 lbs/gal solids Thinned 5% (#60): 2.3 lbs/gal solids Thinned 10% (#4): 3.1 lbs/gal solids																								
THEORETICAL COVERAGE	1,094 mil sq ft/gal (26.8 m ² /L at 25 microns). See APPLICATION for coverage rates. †																								
NUMBER OF COMPONENTS	Two: Part A (amine) and Part B (epoxy) — One (Part A) to one (Part B) by volume.																								
PACKAGING	5 gallon (18.9L) pails and 1 gallon (3.79L) cans — Order in multiples of 2.																								

POTA-POX® PLUS | SERIES N140F

NET WEIGHT PER GALLON

12.68 ± 0.25 lbs (5.75 ± .11 kg) (mixed) †

STORAGE TEMPERATURE

Minimum 20°F (-7°C) Maximum 110°F (43°C)

For optimum application properties, material temperature should be above 60°F (16°C) prior to application.

TEMPERATURE RESISTANCE

(Dry) Continuous 250°F (121°C) Intermittent 275°F (135°C)

SHELF LIFE

Part A: 24 months; Part B: 12 months at recommended storage temperature.

FLASH POINT - SETA

Part A: 82°F (28°C) Part B: 80°F (27°C)

HEALTH & SAFETY

Paint products contain chemical ingredients which are considered hazardous. Read container label warning and Material Safety Data Sheet for important health and safety information prior to the use of this product.

Keep out of the reach of children.

APPLICATION

COVERAGE RATES

	Dry Mils (Microns)	Wet Mils (Microns)	Sq Ft/Gal (m²/Gal)
Suggested	6.0 (150)	9.0 (230)	182 (16.9)
Minimum	2.0 (50)	3.0 (75)	545 (50.7)
Maximum	10.0 (225)	15.0 (375)	109 (10.1)

Note: Roller or brush application requires two or more coats to obtain recommended film thickness. Allow for overspray and surface irregularities. Wet film thickness is rounded to the nearest 0.5 mil or 5 microns. Application of coating below minimum or above maximum recommended dry film thicknesses may adversely affect coating performance. Reference the "Search Listings" section of the NSF website at www.nsf.org for details on the maximum allowable DFT. †

MIXING

1. Start with equal amounts of both Parts A & B.
2. Using a power mixer, separately stir Parts A & B.
3. Add Part A to Part B under agitation, stir until thoroughly mixed.
4. Both components should be above 50°F (10°C) prior to mixing. For application to surfaces between 35°F to 50°F (2°C to 10°C), allow mixed material to stand thirty (30) minutes and restir before using. For optimum application properties, blended components should be above 40°F (4°C).

THINNING

N140F: Use No. 4 or No. 60 Thinner. For air spray, thin up to 10% or 3/4 pint (380 mL) per gallon with No. 4 Thinner or thin up to 5% or 1/4 pint (190 mL) per gallon with No. 60 Thinner. For airless spray, roller or brush, thin up to 5% or 1/4 pint (190 mL) per gallon. **Caution: Series N140F NSF certification is based on thinning with No. 4 or No. 60 Thinner for tanks and only No. 60 Thinner for pipe and valves.** Use of any other thinner voids NSF/ANSI Std. 61 certification. V140F: Use No. 4 Thinner. **Caution: Series V140F NSF certification is based on thinning with No. 4 Thinner only.** Use of any other thinner voids NSF/ANSI Std. 61 certification. **Note:** When using Series V140F, a maximum of 4.5% of No. 4 Thinner may be used to comply with VOC regulations.

POT LIFE

2 hours at 50°F (10°C) 1 hour at 75°F (24°C) 30 minutes at 100°F (38°C)

SPRAY LIFE

30 minutes at 75°F (24°C)

Note: Spray application after listed times will adversely affect ability to achieve recommended dry film thickness.

APPLICATION EQUIPMENT

Air Spray

Gun	Fluid Tip	Air Cap	Air Hose ID	Mat'l Hose ID	Atomizing Pressure	Pot Pressure
DeVilbiss JGA	E	765 or 704	5/16" or 3/8" (7.9 or 9.5 mm)	3/8" or 1/2" (9.5 or 12.7 mm)	75-100 psi (5.2-6.9 bar)	10-20 psi (0.7-1.4 bar)

Low temperatures or longer hoses require higher pot pressure.

Airless Spray

Tip Orifice	Atomizing Pressure	Mat'l Hose ID	Manifold Filter
0.015"-0.019" (380-485 microns)	3000-4800 psi (207-330 bar)	1/4" or 3/8" (6.4 or 9.5 mm)	60 mesh (250 microns)

Use appropriate tip/atomizing pressure for equipment, applicator technique and weather conditions.

Roller: Use 3/8" or 1/2" (9.5 mm to 12.7 mm) synthetic woven nap roller cover. Use longer nap to obtain penetration on rough or porous surfaces.

Brush: Recommended for small areas only. Use high quality natural or synthetic bristle brushes.

SURFACE TEMPERATURE

Minimum 35°F (2°C) Maximum 135°F (57°C)

The surface should be dry and at least 5°F (3°C) above the dew point. Coating won't cure below minimum surface temperature.

CLEANUP

Flush and clean all equipment immediately after use with the recommended thinner or MEK.

† Values may vary with color.

WARRANTY & LIMITATION OF SELLER'S LIABILITY: Tnemec Company, Inc. warrants only that its coatings represented herein meet the formulation standards of Tnemec Company, Inc. THE WARRANTY DESCRIBED IN THE ABOVE PARAGRAPH SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. The exclusive remedy shall not have failed its essential purpose as long as Tnemec is willing to provide a defective condition of the product should be found to exist and the LIMITED TO: INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, ENVIRONMENTAL INJURIES OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL DAMAGES. Test performance results were obtained in a controlled environment and Tnemec Company makes no claim that these tests or any other tests, accurately represent all environments. As application, environmental and design factors can vary significantly, due care should be exercised in the selection and use of the coating.

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