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98 EP Direct Acting Pressure Reducing Valve



Ross Technology Park 75 102st Street, Troy, NY 12181 TEL 518.274.0961 - www.ROSSVALVE.com



SUBMITTAL NOTES

PR	OJ	EC	Т:	

Ross Model 98EP - Direct Acting Pressure Reducing Valve

Size: _____ inch / mm

Every Ross Valve shall be hydrostatically tested for body integrity and tight seating at the factory prior to shipment. Field operating conditions are simulated, and adjustments are made for proper operation. In order to design and test each valve under operating conditions similar to those in the field, please complete / confirm the following:

- Inlet (supply) pressure _____ psi
- Outlet (downstream) pressure _____ psi

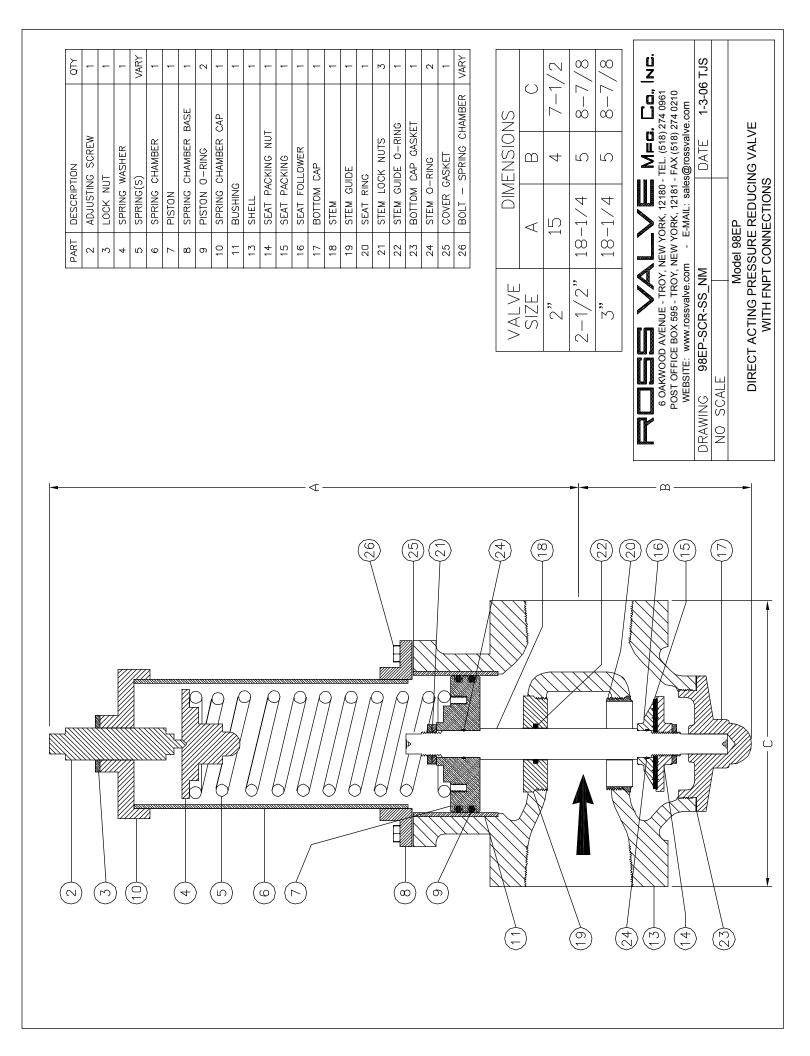
The Ross Globe Body Style Valve can be installed in any position. In order to properly design the valve, please confirm the physical layout of the installation. (** Designates standard valve orientation.)

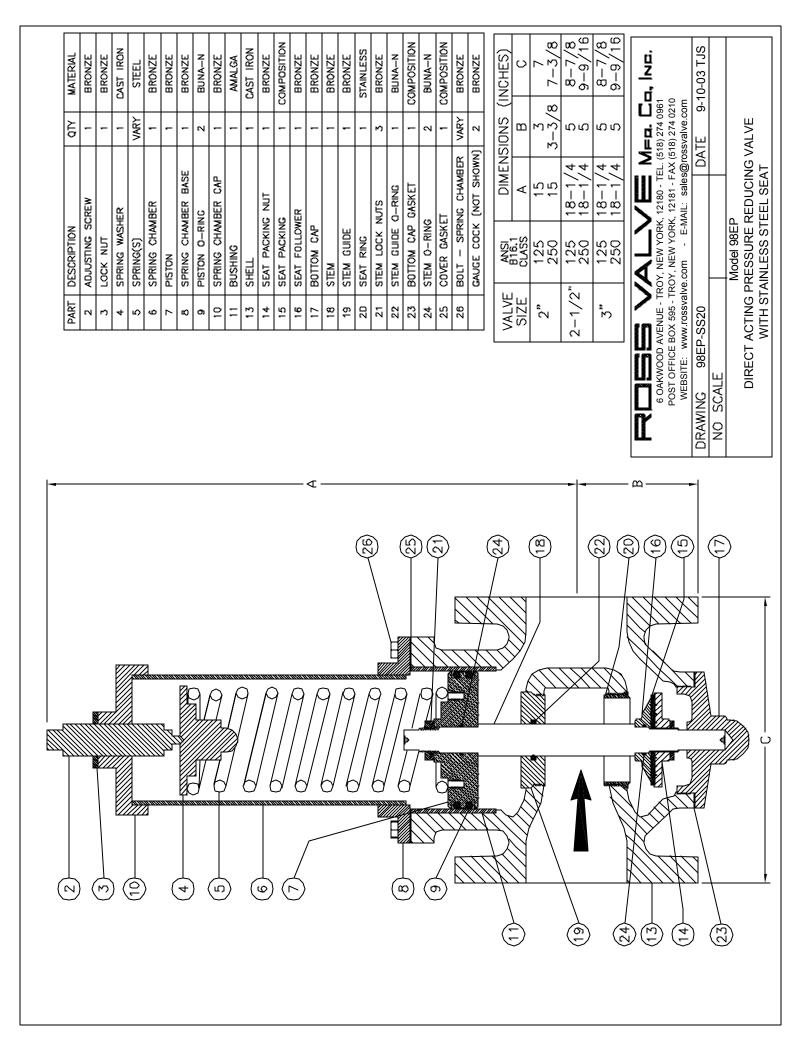
Valve inlet & outlet (flow	v):	[]] Hori	zontal **	or	[] Vertical
Valve piston axis :	[] Vertical **	or	[] Horizontal		[] Horizontal

The valve shall be furnished with:

- ANSI B16.1 Class 250 cast iron body, with:
 - [] FNPT threaded ends [] Class 125 flanges [] Class 250 flanges
- Internal metal parts Bronze construction with Stainless Steel Seat Ring (part #20)
- Tapped ports with gauge cocks on inlet & outlet (gauges by others)
- PAINTING: Ferrous surfaces of valve shall be coated with ANSI/NSF Standard 61 Certified Epoxy (Tnemec Series N140F)
 - Meets the performance requirements of AWWA D102 Inside System No. 1.
 - Operation & Maintenance Manual (shipped with the valve).
 - [] Other (Code / D escription) / _____ / _____
 (Please list any additional features that are required. A representative may need to contact you for any relevant operating data.)

The valve will be constructed with materials and options stated on this notes page & cut view drawing & quote only, any changes or adders will be reviewed by Ross Valve Mfg. Co., Inc. with possible additional charges to quoted valve pricing. All information following the cut view drawing is for general information. Any special submittal requirements will be an additional charge to purchaser. The Ross Valve Mfg. Co., Inc. reserves the right to modify valve construction which will result in equal or superior performance to existing designs. These modifications may be made at any time and at the sole discretion of the manufacturer.





(Factory Accelerated) **Pota-Pox[™] Plus** SERIES N140F

	PRODUCT PROFILE							
®	GENERIC DESCRIPTION COMMON USAGE COLORS SPECIAL QUALIFICATIONS	wide range of temper concrete tanks, reser F1211 Fast Cure Re 39BL Fast Cure Del Note: Epoxies chall miscatalyzation or t application and init Certified by NSF In	vater coating which eratures (down to 3 voirs, pipes, valves, d, F1255 Fast Cure ft Blue, 35GR Fast with extended ex ne use of heaters th al stages of curing ternational in acc	5°F or 2°C). For use of pumps and equipme Beige, 11WH Fast C	on the interior and e ent in potable water Cure White, 15BL F .ack of ventilation, de and carbon mor g to occur. NSF Std. 61. Ambi	service. ast Cure Tank White, incomplete mixing, noxide during ent air cured Series		
TNEMEC	PERFORMANCE CRITERIA	pipes ten (10) inches (25 cm) in diameter or greater and valves two (2) inches (5 cm) in diameter or greater. Conforms to AWWA D 102 Inside Systems No. 1 and No. 2 . Contact your Tnemec representative for systems and additional information. Extensive test data available. Contact your Tnemec representative for specific test results.						
\frown	COATING SYSTEM							
Certified to ANSI/NSF 61	PRIMERS Topcoats	applicable topcoat of an intermediate coar applies when using time limit is exceed	40F , 66, N69, 73, N14 Jata sheets for addi t of Series 73 or 10 Endura-Shield top ed, Series N140F n	0, 161, 175, 180, 70 tional information. N 075 is required. Note icoats: Series 73, 175 hust be uniformly sc ng with Series 180, th	lote: When topcoat e: The following ma b, 1074 or 1075, six arified or recoated	ing with Series 700, aximum recoat time ty (60) days. If this		
	SURFACE PREPARA	ATION						
	STEEL			E 2 Near-White Blast IACE 3 Commercial E				
	PRIMED STEEL	Immersion Service: Scarify the Series N140F, 20 or FC20 prime coat surface by abrasive-blasting with fine abrasive before topcoating if it has been exterior exposed for 60 days or longer and N140F is the specified topcoat.						
	CAST/DUCTILE IRON CONCRETE	Contact Tnemec Technical Services. Allow new concrete to cure 28 days. For optimum results and/or immersion service, abrasive blast referencing SSPC-SP13/NACE 6 Surface Preparation of Concrete and Tnemec's Surface Preparation and Application Guide. Fill all holes, pits, voids and cracks with 63-1500 Filler and Surfacer.						
	ALL SURFACES	Must be clean, dry a	and free of oil, grea	ase and other contam	ninants.			
	TECHNICAL DATA							
	VOLUME SOLIDS*	68.0 ± 2.0% (mixed)					
	RECOMMENDED DFT	3.0 to 8.0 mils (75 to	205 microns) per o	coat. Note: Number o od and exposure. Co		ess requirements will representative.		
	CURING TIME AT 5 MILS DFT	Temperature	To Handle	To Recoat	Immersion			
		75°F (24°C)	4 hours	5 hours	7 days	-		
		65°F (18°C) 55°F (13°C)	7-8 hours 12-14 hours	9-11 hours 16-20 hours	8 days 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			
		Note: For valve app applications allow 3	blications allow 14 80 days cure at 75°F	rature, air movement days cure at 75°F (2 F (24°C) prior to imn	4°C) prior to imme nersion.	n thickness. rsion. For pipe		
	VOLATILE ORGANIC COMPOUNDS*	2.29	hinned bs/gallon rams/litre)	2.71	ined 10% Ibs/gallon grams/litre)			
	THEORETICAL COVERAGE*			crons). See APPLICA	TION for coverage	e rates.		
	NUMBER OF COMPONENTS	Two: Part A and Pa						
	PACKAGING			79L) cans — Order ii	n multiples of 2.			
	NET WEIGHT PER GALLON* Storage temperature	application.	C) ation properties, m	Maximum 110°F (aterial temperature s	should be above 60	^{9°} F (16°C) prior to		
	TEMPERATURE RESISTANCE	(Dry) Continuous 2	50°F (121°C)	Intermittent 275°	F (135°C)			
				without notice. The online catalog r Tnemec representative for currer				

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TECHNICAL DATA continued

SHELF LIFE	24 months at recommend	ed storage temperature.
FLASH POINT - SETA	Part A: 82°F (28°C)	Part B: 80°F (27°C)
HEALTH & SAFETY	•	emical ingredients which are considered hazardous. Read container label ety Data Sheet for important health and safety information prior to the use f the reach of children.

APPLICATION

COVERAGE RATES*	Primer Intermediate / Topcoat								
		Dry N		et Mils	Sq Ft/		Dry Mils	Wet Mils	Sq Ft/Gal
		(Micro	ons) (M	icrons)	(m²/G		(Microns)	(Microns)	(m²/Gal)
	Suggested (1)	4.0 (1	00) 6.0	0 (150)	273 (2	5.4)	5.0 (125)	7.5 (190)	218 (20.3)
	Minimum		75) 4.	· /	364 (3		4.0 (100)	6.0 (150)	273 (25.4)
	Maximum	5.0 (1	25) 7.!	5 (190)	218 (2	.0.3)	6.0 (150)	9.0 (230)	182 (17.0)
MIXING	 (1) Note: Roller or brush application requires two or more coats to obtain recommended film thickness. Series N140F can be spray applied to an optional high-build film thickness range of 6.0 to 8.0 dry mils (150 to 205 dry microns) or 8.5 to 11.5 wet mils (215 to 290 wet microns). Allow for overspray and surface irregularities. 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. I. Start with equal amounts of both Parts A & B. Using a power mixer, separately stir Parts A & B. Add Part A to Part B under agitation, stir until thoroughly mixed. 								
POTLIFE	 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). 4. between 35°F (2°C) = 2 between 35°F (10°C) = 1 between 35°F (28°C) 								
	4 hours at 35°F (2°C) 2 hours at 77°F (25°C) 1 hour at 100°F (38°C)								
THINNING	Use No. 4 Thinner. For air spray, thin up to 10% or ¾ pint (380 mL) per gallon. For airless spray, roller or brush, thin up to 5% or ¼ pint (190 mL) per gallon. Caution: Series N140F NSF certification is based on thinning with No. 4 Thinner. Use of any other thinner voids ANSI/NSF Std. 61 certification.								
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.								
APPLICATION EQUIPMENT	Air Spray								
	Gun	Fluid Tip	Air Cap	Air Ho ID	ose	Ma	it'l Hose ID	Atomizing Pressure	Pot Pressure
	DeVilbiss MBC or JGA	E	765 or 78	5/16" or (7.9 or 9.			5" or 1/2" 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"	1800-3000 psi	1/4" or 3/8"	60 mesh			
(380-485 microns)	(124-207 bar)	(6.4 or 9.5 mm)	(250 microns)			

Use appropriate tip/atomizing pressure for equipment, applicator technique and weather conditions. Note: Application over inorganic zinc-rich primers: Apply a wet mist coat and allow tiny bubbles to form. When bubbles disappear in 1 to 2 minutes, apply a full wet coat at specified mil thickness. Roller: Roller application optional when environmental restrictions do not allow spraying. Use 3/8" or 1/2" (9.5 mm or 12.7 mm) synthetic nap covers.

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

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 Themec 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 Themec 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. FOR INDUSTRIAL USE ONLY.

prior to the use of

ROSS VALVE SUPPORT SERVICES

PROVIDES PERSONAL SERVICE IN EVERY PHASE OF DEVELOPMENT, INSTALLATION AND MAINTENANCE.

We are always available to provide answers to any questions. No sale is ever "final"

DEDICATED SUPPORT LINES

Sales engineers available Monday through Friday 7am to 5:00pm EST Phone to help with any questions — (518) 274-0961 Fax machine – (518) 274-0210 After Hours Support – (518) 279-4373 E-Mail – sales@rossvalve.com

TRAINING

Factory Training — Ross Valve believes that our customers should know as much as possible about our products. That is why we periodically host Customer Training seminars at our Ross Technology Park in Troy, NY. Here, our customers learn the workings of the valves, how to correctly maintain them, and how they are manufactured.

In addition, Ross representatives are often in the field giving product seminars for your convenience.

FIELD SERVICE

When a repair, upgrade, or modification is required for an existing Ross Valve, Factory Authorized Ross Service Technicians offer the best service available, including:

Technical assistance for start-up or continuing training.

Fully inventoried service vehicles to allow replacement of necessary parts.

Confined Space/OSHA trained with latest equipment

On-site / hands-on training for your staff.

Ability to return older valves to "like-new" condition.

YEARLY CONTRACTS AVAILIBLE

WARRANTY

All valves and materials are guaranteed free from defects for 1 year from the date shipped.

Ross Valves are economically rebuilt. Every internal part is replaceable through the top of the valve, without removing it from the line. All seals and internal packings are replaceable, which contributes to the valve's longevity.

Ross Valve stocks a wide variety of repair parts which can be received by the customer as early as the next day. Inhouse computer links track packages to ensure timely delivery.

Detailed historical record keeping gives us a full report of all maintenance or upgrades that have been made on each valve. This allows us to evaluate performance in the past and maximize performance in the future.







Automatic Control Valves & Pre-Packaged Vaults for Water & Wastewater www.rossvalve.com

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