



Culligan。 Automatic Water Softeners

assisted living facilities cafeterias casinos educational facilities food service grocery hotel/hospitality institutions laundry corporate campuses theme parks vehicle wash



Hi-Flo_® 3 Automatic Water Softener

Culligan Hi-Flo_® 3 Water Softener Standard Features

- Corrosion Resistant Tanks-made from fiberglassreinforced polyester. Additional reinforcement from continuous fiberglass overwrap. Underdrain design maximizes softener's capacity, reduces pressure loss.
- Softening Media—High quality resin provides stability and uniform size for top performance and long life.
- Choice of Cycle Controllers—Regeneration cycle may be initiated by timeclock any or every day of the week. Optional meter starts cycle after preset volume of water has been softened.
- Positive Motor-Driven Regeneration Valve–Motor driven piston is reliable under severe water conditions, resists dirt, iron, turbidity.
- Automatic Brine Control—Automatically measures the correct amount of brine. A single turn of dial sets correct amount dosage and capacity.
- Dubl-Safe[™] Brine System—Positive overfill protection. Automatic refill control is backed up by shutoff float valve to minimize chance of overflow.



The Culligan Hi-Flo. 3 Automatic Water Softener

Applications and Benefits

- RO/DI Pretreatment
- Apartment buildings, assisted living facilities and hotels—Quality water for laundry, dishwashers, boilers.
- Office buildings—For heating plant pretreatment, tenant convenience, general housekeeping.

Options

 Regeneration Flexibility—There are several choices for regenerating a Hi-Flo® 3 water softener to meet your requirements. The simple, economical choice is timeclock operation for both single and duplex units. If water usage varies, meter operation is available to signal regeneration immediately or delay regeneration until a pre-set time. Duplex meter operated units may be operated in parallel or on an alternating basis, depending upon your needs.

- Restaurants—For dishwashing, cleaning material savings, scale reduction.
- Car washes—Quality results, detergent and water heating savings, scale reduction.
- Light industry—For process and make-up water, boiler and cooling system pretreatment, general housekeeping.

Warranty

 $Culligan_{\odot}$ Hi-Flo $_{\odot}$ 3 water softeners are backed by a limited 1-year warranty against defects in materials, workmanship, and corrosion. The plastic conditioner tank has a 5-year warranty. See printed warranty for details.*

Some localities have corrosive water. A softener cannot correct this condition, so its printed warranty disclaims liability for corrosion of plumbing lines, fixtures, or water-using equipment. If you suspect corrosion, your independently operated Culligan dealer has equipment to control the problem.

*Culligan will provide a copy of warranties upon request.

System Specifications

| Pressure: | 30–120 psig |
|--------------|---------------------------|
| | 210–830 kPa |
| Vacuum: | None ¹ |
| Temperature: | 40-100°F |
| | 4 - 38°C |
| Electrical: | 120V, 60 HZ |
| Turbidity: | 5 NTU, max. ² |
| Chlorine: | 1 mg/L, max. ² |
| Iron: | 5 mg/L |

¹Tank warranty is void if subject to vacuum ²See media specification for details

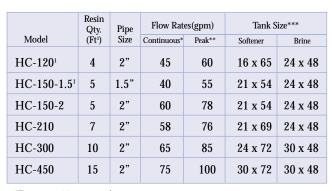
The contaminants or other substances removed or reduced by this water treatment device are not necessarily in your water.

"Hey Culligan Man!"



www.culligan.com

1-800-CULLIGAN © 2003 Culligan International Company Printed in USA (5/03) MOORE PART NO. 46956



*Flow rate at a 15 psi pressure loss.

Flow rate at a 25 psi pressure loss. *Dimensions are diameter by tank height.

 Models noted are only available as single systems. Refer to Softminder Twin Plus systems if duplex operation is required.



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HI-FLO_® 3

FULLY AUTOMATIC WATER SOFTENERS

SPECIFICATIONS AND **O**PERATING **D**ATA

| Single Tank | Exchange @ Salt | Capacity ¹ Dosage | Se | rvice Flo | ow Rate | es ² | | | | | |
|----------------|--------------------|---------------------------------|-------|----------------|---------|-----------------|--------------|-----|-------------|--------------|-----------------|
| | | | Pe | | | Continuous | | | Softener | Brine | Approx. |
| | Minimum | Maximum | Flow | Press. Drop | Flow | Press. Drop | Pipe Size | | | Tank Size | Ship. Weight |
| | gr @ lb | gr @ lb | gpm | psi | gpm | psi | in | ft³ | in | in | lb |
| Model | g @ kg | g @ kg | m³/hr | kPa | m³/hr | kPa | in | L | mm | mm | kg |
| HC-150 | 100,000/30 | 150,000/75 | 78 | 25 | 60 | 15 | 2 | 5 | 21 x 54 | 24 x 48 | 540 |
| | 6,480/14 | 9,720/34 | 17.7 | 172 | 13.6 | 103 | 2 | 142 | 530 x 1,370 | 610 x 1,200 | 460 |
| HC-210 | 140,000/42 | 210,000/105 | 76 | 25 | 58 | 15 | 2 | 7 | 21 x 69 | 24 x 48 | 640 |
| | 9,070/19 | 13,600/48 | 17.2 | 172 | 13.2 | 103 | 2 | 198 | 530 x 1,750 | 610 x 1,200 | 290 |
| HC-300 | 200,000/60 | 300,000/150 | 85 | 25 | 65 | 15 | 2 | 10 | 24 x 72 | 30 x 48 | 865 |
| | 12,960/27 | 19,400/68 | 19.3 | 172 | 14.7 | 103 | 2 | 284 | 410 x 1,830 | 760 x 1,200 | 395 |
| HC-450 | 300,000/90 | 450,000/225 | 100 | 25 | 75 | 15 | 2 | 15 | 30 x 72 | 30 x 48 | 1,250 |
| | 19,440/41 | 29,160/102 | 22.7 | 172 | 17.0 | 103 | 2 | 426 | 760 x 1,830 | 760 x 1,200 | 570 |

1 Exchange capacities based on treating water containing 10 grains per gallon (171 mg/L) of hardness (expressed as calcium carbonate), free of color, oil, turbidity and at a service flow rates not exceeding 20 gpm per square foot (49 m³/m²/min) of bed area. These are nominal capacities and will vary with influent water characteristics, temperature, pressure and other factors.

2 Operation of a softener at peak flow rate for extended periods of time may result in a slight reduction of softening capacity. This is due to premature hardness breakthrough.

NOTE: Operational, maintenance and replacement requirements are essential for this product to perform as advertised.

Specifications are shown for single models. Duplex models have two softener tanks and one brine tank system.



Commercial Systems © 2000 Culligan 1-800-CULLIGAN www.culligan.com Printed in USA 4/00 DCO 992587 SL-0074



Cullígan.

LIMITED WARRANTY

SOFT-MINDER, TWIN PLUS/HI-FLO, 3 WATER SOFTENERS

You have just purchased one of the finest water conditioners made. As an expression of our confidence in Culligan products, your water conditioner is warranted to the original end-user, when installed in accordance with Culligan International Company specifications, against defects in material and workmanship from the date of original installation, as follows:

| For a period of ONE YEAR | The entire unit |
|--|--|
| For a period of THREE YEARS | The control valve body, but excluding its internal parts |
| For a period of FIVE YEARS | The fiberglass-reinforced conditioner tank* |
| For a period of FIVE YEARS | The conditioner tank if it has an epoxy-phenolic coated interior |
| For the LIFETIME of the original consumer purchaser | The Tripl-Hull _{TM} conditioner tank. |

*The tank must be protected by a vacuum breaker device as described in the unit's operating manual. Damage to the tank caused by vacuum is not covered by this warranty. The unit must be used in operating conditions that conform to Culligan's recommended design guidelines.

If a part described above becomes defective, within the specified period, you should notify your independently-operated Culligan dealer and arrange a time during normal business hours for the dealer to inspect the water conditioner on your premises. Any part found defective within the terms of this warranty will be repaired or replaced by the dealer. You pay only freight from our factory and local dealer charges.

We are not responsible for damage caused by accident, fire, flood, freezing, Act of God, misuse, misapplication, neglect, alteration, installation or operation contrary to our printed instructions, or by the use of accessories or components which do not meet Culligan specifications, all of which are not covered by this warranty.

Our product performance specifications are furnished with each water conditioning unit. TO THE EXTENT PERMITTED BY LAW, CULLIGAN DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING, WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE; TO THE EXTENT REQUIRED BY LAW, ANY SUCH IMPLIED WARRANTIES ARE LIMITED IN DURATION TO THE ONE-YEAR PERIOD SPECIFIED ABOVE FOR THE ENTIRE CONDITIONER. As manufacturer, we do not know the characteristics of your water supply or the purpose for which you are purchasing a water conditioner. The quality of water supplies may vary seasonally or over a period of time, and your water usage rate may vary as well. Water characteristics can also differ considerably if your water conditioner is moved to a new location. For these reasons, we assume no liability for the determination of the proper equipment necessary to meet your requirements, and we do not authorize others to assume such obligations for us. Further, we assume no liability and extend no warranties, express or implied, for the use of this product on a non-potable water source. OUR OBLIGATIONS UNDER THIS WARRANTY ARE LIMITED TO THE REPAIR OR REPLACEMENT OF THE FAILED PARTS OF THE WATER CONDITIONER, AND WE ASSUME NO LIABILITY WHATSOEVER FOR DIRECT, INCIDENTAL, CONSEQUENTIAL, SPECIAL, GENERAL, OR OTHER DAMAGES.

CONSUMERS:

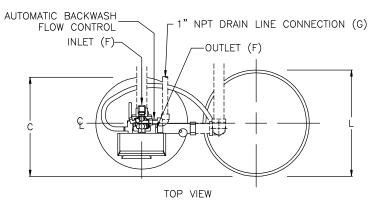
Some states do not allow the exclusion of implied warranties or limitations on how long an implied warranty lasts, so the above exclusion may not apply to you. Similarly, some states do not allow the exclusion of incidental or consequential damages, so the above exclusion or limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

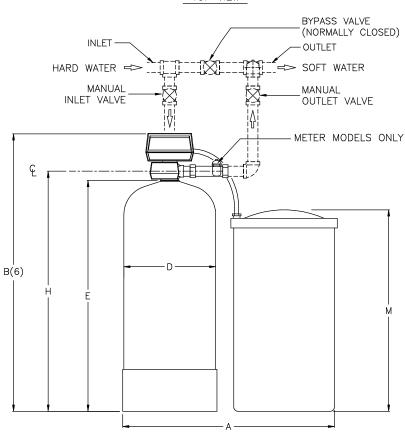
Consult your telephone directory for your local independently-operated Culligan dealer, or write Culligan International Company, for warranty and service information.

CULLIGAN INTERNATIONAL COMPANY One Culligan Parkway Northbrook, Illinois 60062

- NOTES:
- (1) ITEMS SHOWN IN BROKEN LINES TO BE FURNISHED BY OTHERS.
- (2) ALL DIMENSIONS ARE \pm 1 INCH (25mm) AND SUBJECT TO CHANGE WITHOUT NOTICE.
- (3) UNIONS SHOULD BE LOCATED ON INLET AND OUTLET CONNECTIONS OF CONTROL VALVE TO FACILITATE SERVICING.
- (4) THE USE OF DISSIMILAR METALS IN A PIPING SYSTEM IS NOT RECOMMENDED. WHERE DISSIMILAR METALS MUST BE CONNECTED IN A WATER SYSTEM. THE USE OF NONCONDUCTIVE (DIELECTRIC) FITTINGS MAY REDUCE GALVANIC CORROSION.
- (5) AN ELECTRICAL OUTLET SHOULD BE PROVIDED WITHIN FIVE FEET OF THE EQUIPMENT LOCATION.
- (6) ALLOW A MINIMUM OF 24 INCHES ABOVE SOFTENER FOR FILLING.
- (7) TO PERMIT THE OBSERVATION OF THE DRAIN FLOW DO NOT MAKE A DIRECT CONNECTION TO THE DRAIN. PROVIDE AN AIR GAP OF AT LEAST FOUR TIMES THE DIAMETER OF THE DRAIN PIPE OR CONFORM TO LOCAL SANITATION CODES.
- (8) WHEN USING A WATER METER, THERE MUST BE A MINIMUM AMOUNT OF STRAIGHT PIPE BEFORE AND AFTER THE SENSOR. REFER TO THE INSTALLATION INSTRUCTIONS FOR DETAILS.
- (9) SYSTEM USES FRP TANKS WHICH MUST NOT BE SUBJECTED TO VACUUM. INSTALL SIPHON BREAK ON DRAIN LINE. INSTALL VACUUM BREAKER ON INLET PIPING IF THE SERVICE LINE IS SUBJECT TO A VACCUM.

| | | | | | DIM | ENSIONS (INCH | ES) | | - | | | UNIT DAT | A PER TANK | | | | | |
|------------|------------|----------------|------------|-------------------|---------------------|---------------------------------|--------------------|------------------------|----|------------------------------|--|------------------------------------|--|------|----|--------------------------------|------|------------------------------|
| MODEL | WIDTH A | HEIGHT B(6) | DEPTH C | TANK DIA. D | TANK HEIGHT E | INLET/OUTLET PIPE SIZES F | DRAIN SIZE G | FLOOR TO INLET H | | BRINE TANK HEIGHT M | MAX. CAPACITY KGR @ SALT DOSAGE | RESIN VOLUME ft ³ | CONTINUOUS FLOW gpm @ 15 psi drop | FLOW | | MIN. DRAIN PIPE SIZE IN. | | SIMPLEX SHIP. WT. Ibs. |
| HC-120 | 45 | 76 | 21 | 16 | 65 | 2.0 | 1.0 | 67.2 | 24 | 48 | 120 @ 60 | 4 | 45 | 60 | 7 | 1.0 | 1895 | 475 |
| HC-150-1.5 | 50 | 66 | 24 | 21 | 55 | 1.5 | 1.0 | 57.2 | 24 | 48 | 150 @ 75 | 5 | 40 | 55 | 12 | 1.0 | 1960 | 540 |
| HC-150 | 50 | 66 | 24 | 21 | 55 | 2.0 | 1.0 | 57.2 | 24 | 48 | 150 @ 75 | 5 | 60 | 78 | 12 | 1.0 | 1960 | 540 |
| HC-210 | 50 | 82 | 24 | 21 | 71 | 2.0 | 1.0 | 73.2 | 24 | 48 | 210 @ 105 | 7 | 58 | 76 | 8 | 1.0 | 2070 | 640 |
| HC-300 | 60 | 84 | 28.50 | 24 | 73 | 2.0 | 1.0 | 75.2 | 30 | 48 | 300 @ 150 | 10 | 60 | 85 | 15 | 1.25 | 2580 | 865 |
| HC-450 | 65 | 92 | 31.50 | 30 | 81 | 2.0 | 1.0 | 83 | 30 | 48 | 450 @ 225 | 15 | 75 | 100 | 25 | 1.5 | 3300 | 1250 |





SINGLE INSTALLATION

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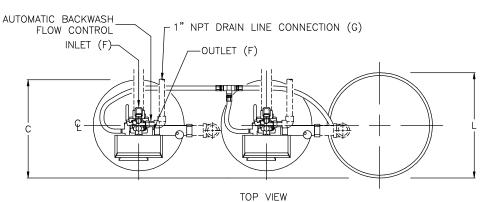
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| WRITTEN NATIONAL CO. | REF. NO | Э. | | part no. S3_ | _1 |
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| NOTES: | | | | | | | | |
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| (1) ITEMS SHOWN IN BROKEN LINES TO BE FURNISHED | | | | | | | | |
| BY OTHERS. | MODEL | | | | | | | |
| (2) ALL DIMENSIONS ARE \pm 1 INCH (25mm) AND SUBJECT | | _ | | | | | | |
| TO CHANGE WITHOUT NOTICE. | HC-150 | | | | | | | |
| (3) UNIONS SHOULD BE LOCATED ON INLET AND OUTLET | 110 210 | | | | | | | |

(3) UNIONS SHOULD BE LOCATED ON INLET AND OUTLE CONNECTIONS OF CONTROL VALVE TO FACILITATE SERVICING.

- (4) THE USE OF DISSIMILAR METALS IN A PIPING SYSTEM IS NOT RECOMMENDED. WHERE DISSIMILAR METALS MUST BE CONNECTED IN A WATER SYSTEM. THE USE OF NONCONDUCTIVE (DIELECTRIC) FITTINGS MAY REDUCE GALVANIC CORROSION.
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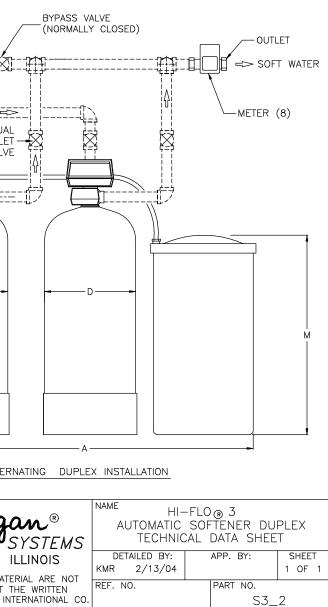
| | | | | | DIM | ENSIONS (INCH | ES) | | | UNIT DATA PER TANK | | | | | | | | |
|--------|-------|--------|-------|----|----------------|----------------------------|---------------|-------------------|------|-------------------------|--------------------------------|-----------------|--------------------------------|----------|-----|-------------------------|------|---------------------|
| | WIDTH | HEIGHT | DEPTH | | TANK HEIGHT | INLET/OUTLET PIPE SIZES | DRAIN SIZE | FLOOR TO INLET | TANK | BRINE TANK HEIGHT | MAX. CAPACITY KGR @ SALT | RESIN VOLUME | CONTINUOUS FLOW gpm @ 15 | FLOW | | MIN. DRAIN PIPE SIZE | | DUPLEX SHIP. WT. |
| MODEL | A | B(6) | С | D | E | F | G | Н | L | М | DOSAGE | ft ³ | psi drop | psi drop | gpm | IN. | lbs. | lbs. |
| HC-150 | 82 | 66 | 24 | 21 | 55 | 2.0 | 1.0 | 57.2 | 24 | 48 | 150 @ 75 | 5 | 60 | 78 | 12 | 1.0 | 2865 | 1030 |
| HC-210 | 82 | 82 | 24 | 21 | 71 | 2.0 | 1.0 | 73.2 | 24 | 48 | 210 @ 105 | 7 | 58 | 76 | 8 | 1.0 | 3085 | 1230 |
| HC-300 | 93 | 84 | 28.50 | 24 | 73 | 2.0 | 1.0 | 75.2 | 30 | 48 | 300 @ 150 | 10 | 60 | 85 | 15 | 1.25 | 3575 | 1664 |
| HC-450 | 104 | 92 | 31.50 | 30 | 81 | 2.0 | 1.0 | 83 | 30 | 48 | 450 @ 225 | 15 | 75 | 100 | 25 | 1.5 | 4950 | 2435 |



BYPASS VALVE (NORMALLY CLOSED) INLET -INLET -- OUTLET 1215- $-\frac{1}{4}$ -775 -- IX--_ SOFT WATER HARD WATER ⇐> HARD WATER ≓>> 4+4 \Rightarrow Ł=3 MANUAL MANUAL MANUAL MANUAL 阂 阂 OUTLET OUTLET · INLET VALVE INLET VALVE K) VALVE VALVE METER MODELS ONLY ç E B(6) B(6) — A -

PARALLEL DUPLEX INSTALLATION

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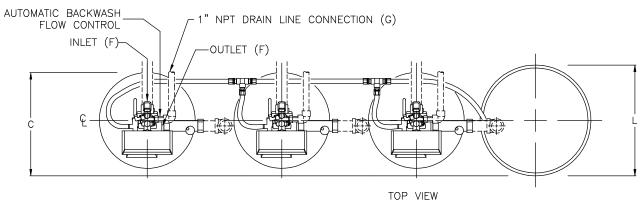
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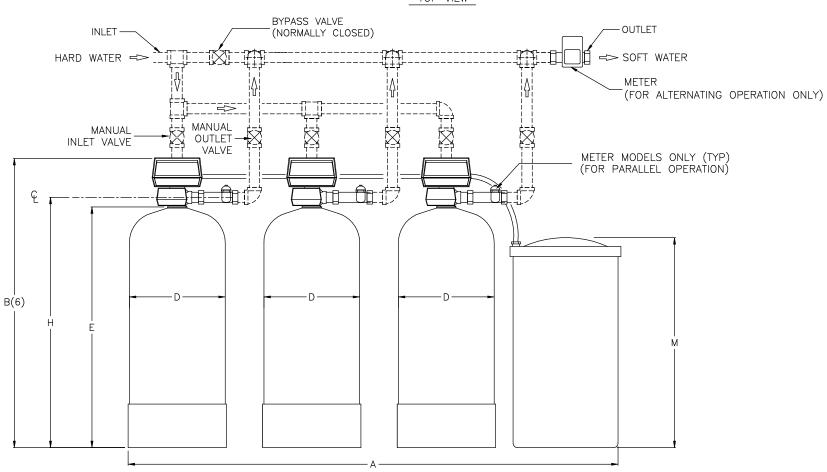
| (1) | ITEMS | SHOWN | IN | BROKEN | LINES | ТО | ΒE | FURNISHED |
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NOTES:

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| | | | | | DIM | ENSIONS (INCH | ES) | | | L | INIT DATA | PER TANK | | | | | | |
|--------|-------|--------|-------|--------------|----------------|----------------------------|---------------|-------------------|------|----|--------------------------------|-----------------|--------------------------------|----------|-----|-------------------------|------|----------------------|
| | WIDTH | HEIGHT | | TANK DIA. | TANK HEIGHT | INLET/OUTLET PIPE SIZES | DRAIN SIZE | FLOOR TO INLET | TANK | | MAX. CAPACITY KGR @ SALT | RESIN VOLUME | CONTINUOUS FLOW gpm @ 15 | FLOW | | MIN. DRAIN PIPE SIZE | | TRIPLEX SHIP. WT. |
| MODEL | A | B(6) | С | D | Е | F | G | Н | L | М | DOSAGE | ft ³ | psi drop | psi drop | gpm | IN. | lbs. | lbs. |
| HC-150 | 112 | 66 | 24 | 21 | 55 | 2.0 | 1.0 | 57.2 | 24 | 48 | 150 @ 75 | 5 | 60 | 78 | 12 | 1.0 | 3770 | 1520 |
| HC-210 | 112 | 82 | 24 | 21 | 71 | 2.0 | 1.0 | 73.2 | 24 | 48 | 210 @ 105 | 7 | 58 | 76 | 8 | 1.0 | 4100 | 1820 |
| HC-300 | 125 | 84 | 28.50 | 24 | 73 | 2.0 | 1.0 | 75.2 | 30 | 48 | 300 @ 150 | 10 | 60 | 85 | 15 | 1.25 | 4570 | 2463 |
| HC-450 | 143 | 92 | 31.50 | 30 | 81 | 2.0 | 1.0 | 83 | 30 | 48 | 450 @ 225 | 15 | 75 | 100 | 25 | 1.5 | 6600 | 3620 |





PARALLEL AND ALTERNATING TRIPLEX INSTALLATION

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| m® SYSTEMS | NAME HI-FLO® 3 AUTOMATIC SOFTENER TRIPLEX TECHNICAL DATA SHEET | | | | | | |
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| LLINOIS | DETAILED BY: KMR 2/13/04 | AF | PP. BY: | SHEET 1 OF 1 | | | |
| HE WRITTEN ERNATIONAL CO. | REF. NO. | P. | PART NO. S3_3 | | | | |
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