



Culligan_® Heavy Duty Industrial Filters

apartments assisted living facilities cafeterias casinos corporate campuses educational facilities food service government grocery health clubs hotel/hospitality institutions laundry manufacturing facilities theme parks travel centers vehicle wash



Culligan's Hi-Flo_® 50 Industrial Filters

Standard Features

- Single, Duplex, Triplex, or Quad Configurations
- Regeneration initiation by choice of time clock, meter or differential pressure switch.
- Carbon Filters For reduction of organics (flow rates up to 96gpm), or chlorine (flow rates up to 157gpm).
- Depth Filters Flow rates up to 392gpm.
- Iron and Sulpher Removal Flow rates up to 100gpm
- Side-Mounted Control Valve Guided perimeter designed diaphragm valves are smooth operating and free of water hammer. All valve parts are easily accessible in the multiport design for ease of service.
- Corrosion resistant tanks Made of low carbon steel with epoxy interior lining and finish coat painted exterior.



Culligan's Hi-Flo_® 50 Industrial Filters

Applications and Benefits

- Pretreatment For water softeners, reverse osmosis and deionization systems.
- Boilers Turbidity reduction, minimize sludge blowdown.
- Drinking Water Turbidity reduction, chlorine reduction, improves taste and clarity.
- Food And Beverage Superior taste.
- Industrial Processes reduces particulate matter.
- Vehicle Wash Turbidity reduction.

Options

- Skid Mounted—fully pre-piped and wired systems for single point field utility connection of inlet, outlet, drain and power supply.
- Patented Progressive Flow Culligan's MVP[™] Control can monitor flow demands bringing additional softening tanks on-line or offline as flows increase or decrease.
- Flow Measuring Devices—are available for volume based regeneration initiation.
- Differential Pressure Switch
- Gauge Packages—pressure gauges provided for mounting at the inlet and outlet connection.

Warranty

Culligan's *Hi-Flo* 50 water softeners are backed by a limited 1-year warranty against defects in material, workmanship and corrosion. In addition, softener tanks are warranted for a period of 5 years.*

* See printed warranty for details. Culligan will provide a copy of the warranty upon request.

System Specifications

	in cationo
Pressure:	30–100 psig 210–690 kPa
Power:	120 Volts /60hz 220 Volts /50hz
Temperature:	40–120°F 4 - 49°C

• ASME Code Tanks

				Water	Quality				
		Supe	erior*	Hig	gh**	Utili	ty***	Backwash	Valve
	Model	Flow Rate (GPM)	Pressure Loss (PSI)	Flow Rate (GPM)	Pressure Loss (PSI)	Flow Rate (GPM)	Pressure Loss (PSI)	Flow Rate (GPM)	Size (inches)
ters	HD-483	126	5	190	10	252	16	188	3
Depth Filters	HD-544	159	5	240	8	318	11	210	4
Dept	HD-604	196	4	300	10	392	17	270	4
lters	HR-4825	50 ¹	2 ¹	75	6	100 ²	10 ²	136	2 ¹ / ₂
Carbon Filters	HR-543	64 ¹	4 ¹	95	8	127 ²	13 ²	160	3
Carb	HR-603	96 ¹	4 ¹	118	2	157 ²	5 ²	210	3
ters	HG-4825	65 ³	4 ³					160	2 ¹ / ₂
Iron Filters	HG-5425	80 ³	6 ³					210	21/2
Iro	HG-6025	100 ³	4 ³					240	21/2

Superior - Best quality water with lowest pressure loss. Recommended for influent suspended solid loads up to and greater than 300 ppm.

High – Very good quality water with increased pressure loss. Recommended for influent suspended solid loads less than 300 ppm.

tility – Satisfactory quality water with greatest pressure loss. Shorter on line time between backwashing. Recommended for influent suspended solid loads less than 150 ppm.

¹ For Sediment and organic removal use the flow rates from the superior water quality column. ² For chlorine removal only, use the flow rates from the utility water quality column.

³ Iron Filter Flow Rates and Pressure Loss are recommended maximums for proper system operation

All pressure drop figures are based on new filter media and a water temperature of 60°F. Depth filters are capable of 10 micron effluent water quality, whereas all other filter types are capable of 40 micron effluent water quality.

"Hey Culligan Man!"

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www.culligan.com

1-800-CULLIGAN

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Hi-Flo_® 50

Automatic Depth Filters For Sediment Reduction

Specifications and Operating Data

		Service Flow Rates ¹						
Single Tank	Superior Quality	High Quality	Utility Quality	Back- wash Flow ²	Pipe Size	Media Qty	Filter Tank Size	Approx. Ship. Weight
	gpm @ psi drop	gpm @ psi drop	gpm @ psi drop	gpm	in.	lbs	in	lb
Models	m³/hr @ kPa drop	m ³ /hr @ kPa drop	m ³ /hr @ kPa drop	m³/hr	in.	kg	mm	kg
HD-483	126 @ 5	190 @ 10	252 @ 16	188	3	4280	48 x 60	7000
	28.6 @ 34.5	43.1 @ 68.9	57.2 @ 110	42.7	3	1941	1,219 x 1,524	3175
HD-544	159 @ 5	240 @ 8	318 @ 11	210	4	5500	54 x 60	8800
	36.1 @ 34.5	54.5 @ 55.2	72.2 @ 75.8	47.7	4	2495	1,372 x 1,524	3992
HD-604	196 @ 4	300 @ 10	392 @ 17	270	4	6930	60 x 60	10800
	44.5 @ 27.6	68.1 @ 68.9	89 @ 117	61.3	4	3143	1,524 x 1,524	4899

¹ Service flow rates are based on:

Superior (10 gpm/ft² - 24 m³/hr/m²) - Best quality effluent at specified flow. Lowest pressure loss. Recommended for suspended solids loads up to and greater than 300 ppm.

High (15 gpm/ft² - 37 m³/hr/m²) - Very good quality effluent at specified flow. Increased pressure loss. Recommended for suspended solids loads < 300 ppm.

Utility (20 gpm/ft² - 49 m³/hr/m²) - Satisfactory quality effluent at specified flow. Greatest pressure loss. Recommended for suspended solids loads of < 150 ppm.

² Backwash flow rates are based on 12-14 gpm/ft² (29-34 m³/hr/m²) using 50° F (10° C) water. A different backwash rate may be required depending upon water temperature.

NOTE: Operational, maintenance and replacement requirements are essential for this product to perform as advertised. Specifications shown are for single models. Also available in multiple tank configurations.



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Hi-Flo_® 50

Automatic Cullar_® Filters For Dechlorination and Organic Adsorption

Specifications and Operating Data

	Service F	low Rates					
Single Tank	Taste, Odor & Organic Removal ¹	Dechlorination ²	Back-wash Flow ³	Pipe Size	Media Qty	Filter Tank Size	Approx. Ship. Weight
	gpm @ psi drop	gpm @ psi drop	gpm	in.	ft³	in	lb
Models	m³/hr @ kPa drop	m³/hr @ kPa drop	m³/hr	in.	m³	mm	kg
HR-4825	50 @ 2	100 @ 10	136	2.5	32	48 x 60	5200
	11.4 @ 13.8	22.7 @ 68.9	30.9	2.5	0.906	1,219 x 1,524	2359
HR-543	64 @ 4	127 @ 13	160	3	40	54 x 60	6500
	14.5 @ 27.6	28.8 @ 89.6	36.3	3	1.133	1,372 x 1,524	2948
HR-603	78 @ 4	157 @ 5	210	3	48	60 x 60	8000
	17.7 @ 27.6	35.6 @ 34.5	47.7	3	1.359	1,524 x 1,524	3629

¹ Service flow rates for taste, odor & organic removal are based on 5 gpm/ft² (12 m³/hr/m²).

² Service flow rates for dechlorination are based on 10 gpm/ft² (24 m³/hr/m²).

³ Backwash flow rates are based on 10 gpm/ft² (24 m³/hr/m²) using 50° F (10° C) water. A different backwash rate may be required depending upon water temperature or the type of carbon used.

NOTE: Operational, maintenance and replacement requirements are essential for this product to perform as advertised. Specifications shown are for single models. Also available in multiple tank configurations.



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Cullígan

Softeners

- Hi-Flo_® 2E
- CSM
- *Hi-Flo*_® 55E
- Hi-Flo_® 50

Filters

- *Hi-Flo*_® 2*E*
- Hi-Flo_® 42
- CSM
- Hi-Flo_® 55E
- Hi-Flo_® 50

Introducing the Culligan® MVP Electronic Controller

Multifunctional

- Sequences the regeneration process of water softeners or filtration systems
- Can be used as a simple timer or more complex system integrator

Versatile

- Patented Progressive Flow** feature permits
 smaller systems to provide greater flow rates and treatment capacities
- Will adapt to many types of water softeners, filters or dealkalizers
- As many as 6 controls may be linked together, allowing for simple, future expansion
- ✓ Operates on 24 VAC

Programmable

- Time based regeneration schedule can be interval of days or hours or specific day of week
- Programmable trip point allows multiple units to be brought online or offline as flow demand increases or decreases
- Two auxilliary outputs and one input can be programmed to be active or deactive at any point of the regeneration process.

Trust The Water Experts®



Culligan® MVP Designed With The Ease of 24-volt Operation.

Time of Day —

Displays time in 12 hour (AM/PM) or 24 hour formats.

corporate campuses educational facilities food service grocery hotel/hospitality laundry vehicle wash

EEPROM Saves programmed and statistical functions.

One-Touch Program Update-Update multiple controls through the touch of a button on the primary control.

Lock/Unlock

Allows the control to be easily locked out from inadvertent program changes or abuse.



Screen Blanking

Allows the screen to go blank once programming is complete (After 5 minutes of no keypad activity).

Power Source

Electrical power required for the control is 24-volt 50/60 Hz AC current. A plug-in transformer (120v/24v) is provided.

Program Beeper

Emits an audible beep when key pads are depressed to help identify valid (short beep) or invalid (3 short beeps) key pad touches. Can be enabled or disabled as desired.

Multi-Unit Communication Input/Output (RS485)

The communication input/output feature routinely recognizes when another controller within a multiple controller system is in a regeneration sequence, prohibiting the chance of multiple units

Additional MVP Features

- **Battery Backup** The optional battery backup will maintain the time of day for a minimum of 4 weeks using a 3.6V 1/2AA-lithium type battery as supplied by Culligan.
- **Regeneration Start Delay** A user determined number of hours (up to 9) can be input for the purpose of increasing time between multiple regeneration initiations.
- Auxillary Input capable of accepting a remote signal from a dry contact device such as an operator push-button for the purpose of initiating the regeneration sequence.
- Segmented Brine Draw/Rinse Cycle Brine Reclaim Capability - allows the user to configure the system for brine reclaim with a minimum of additional valves and/or other types of hardware.

"Hey Culligan Man!"



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MVP Controller * Aqua-Sensor: Patent # US 5,699,272

** Progressive Flow: Patent # US 5,060,167 , # US 5,351,199

Check for compliance with state and local laws and regulations. Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system. Systems certified for cyst reduction may be used on disinfected waters that may contain filterable cysts.

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Limited WARRANTY

Culligan[®] Hi-Flo[®] 2 and 2e Series, Hi-Flo[®] 52 series, Hi-Flo[®] 42 Series, Hi-Flo[®] 55e Series, CSM Series and Hi-Flo[®] 50 Series

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

For a period of ONE YEAR	The entire conditioner.
For a period of TWO YEARS	The control valve internal parts. The brine valve and its component parts. The salt storage container internal components.
For a period of FIVE YEARS	The control valve body, excluding internal parts. The fiberglass wound container(s), if so equipped*. The salt storage container(s), if so equipped. The epoxy-lined steel conditioner tank(s), if so equipped.
For a period of TWELVE YEARS	The conditioner tank, if it contains a plastic liner.

* 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. This warranty will not apply if the unit has been modified, repaired or altered by someone not authorized by Culligan.

If a part described above is found 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.

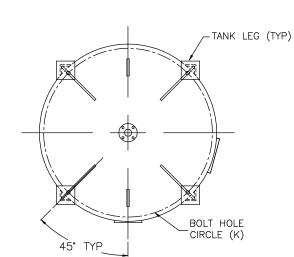
We are not responsible for damage caused by accident, fire, flood, freezing, Act of God, misuse, misapplication, neglect, oxidizing agents (such as chlorine, ozone, chloramines and other related components), alteration, installation or operation contrary to our printed instructions, or by the use of accessories or components which do not meet Culligan specifications, is not covered by this warranty. Refer to the specifications section in the Installation and Operating manual for application parameters.

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 a manufacturer, we do not know the characteristics of your water supply or the purpose for which you are purchasing this product. 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 this product 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 with a nonpotable water source or a water source which does not meet the conditions for use described in the installation and operation manual(s) that accompany the equipment. 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, INDIRECT, INCIDENTAL, CONSEQUENTIAL, SPECIAL, GENERAL, OR OTHER DAMAGES.

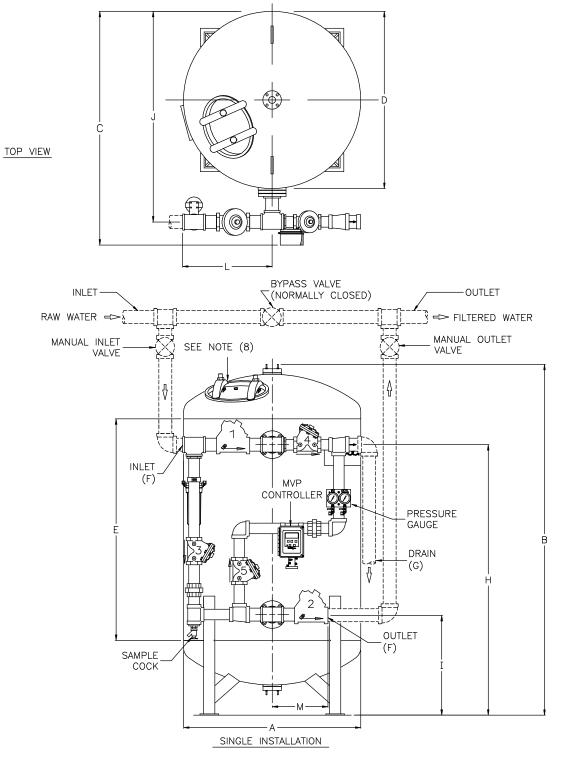
Some states do not allow the exclusion of implied warranties or limitations on how long an implied warranty lasts, so the above limitation may not apply to you. Similarly, some states do not allow the exclusion of incidental or consequential damages, so the above limitation or exclusion may not apply 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

- (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) ACCESS OPENINGS SHOWN ON TANK ARE FOR REFERENCE ONLY. QUANTITY, TYPE AND PLACEMENT ARE DEPENDENT ON TANK SIZE.



					DIM	ENSIONS (INCH	ES)									
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	WIDTH	HEIGHT	DEPIH	DIA.	SHELL	PIPE SIZES	SIZE	INLET	OUTLET	INLET/OUTLET	CIRCLE	OFFSEI	OFFSEI	FLOW	FLOW	
MODEL	A	В	С	D	E	F	G	Н	Ι	J	К	L	М	gpm @ DP	gpm @ DP	gp
HD-483	49	93	65	48	60	3.0	3.0	73	27	57	45.7	24	15	126 @ 5	190 @ 10	25



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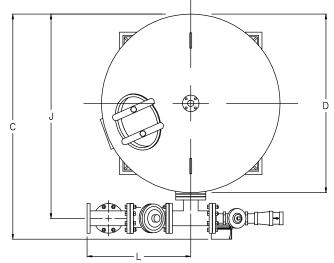
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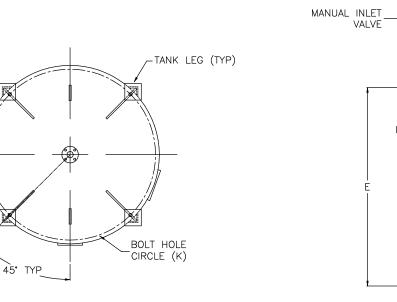
						DIM	ENSIONS (INCH	ES)									
NOTES:		WIDTH	HEIGHT	DEPTH			INLET/OUTLET PIPE SIZES	DRAIN SIZE			BACK TO INLET/OUTLET			OUTLET OFFSET		HIGH QUALITY FLOW	
(1) ITEMS SHOWN IN BROKEN LINES TO BE FURNISHED BY OTHERS.	MODEL	A	В	С	D	E	F	G	Н	I	J	К	L	М	gpm @ DP	gpm @ DP	gp
(2) ALL DIMENSIONS ARE \pm 1 INCH (25mm) AND SUBJECT	HD-544	55	96	72	54	60	4.0	3.0	75	29	62	51.7	32	18	159 @ 5	240 @ 8	31
TO CHANGE WITHOUT NOTICE. (3) UNIONS SHOULD BE LOCATED ON INLET AND OUTLET CONNECTIONS OF CONTROL VALVE TO FACILITATE SERVICING.	HD-604	61	98	78	60	60	4.0	3.0	76	30	68	57.63	32	18	196 @ 4	300 @ 10	39
(4) THE USE OF DISSIMILAR METALS IN A PIPING SYSTEM IS NOT RECOMMENDED, WHERE DISSIMILAR METALS MUST BE CONNECTED							•	•		_			-				

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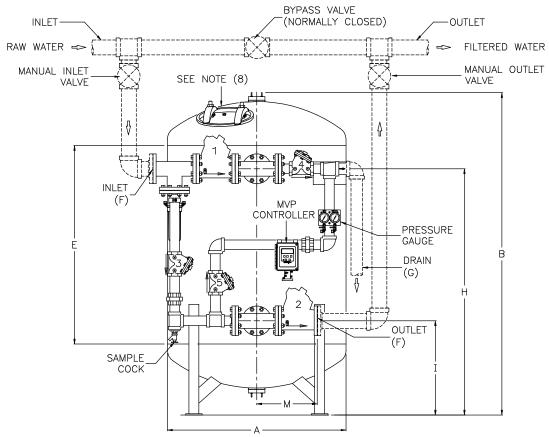
- (5) AN ELECTRICAL OUTLET SHOULD BE PROVIDED WITHIN FIVE FEET OF THE EQUIPMENT LOCATION.
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TOP VIEW





BOTTOM VIEW

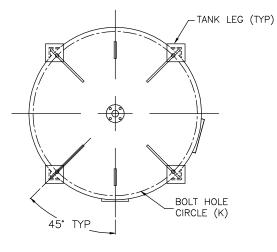


SINGLE INSTALLATION

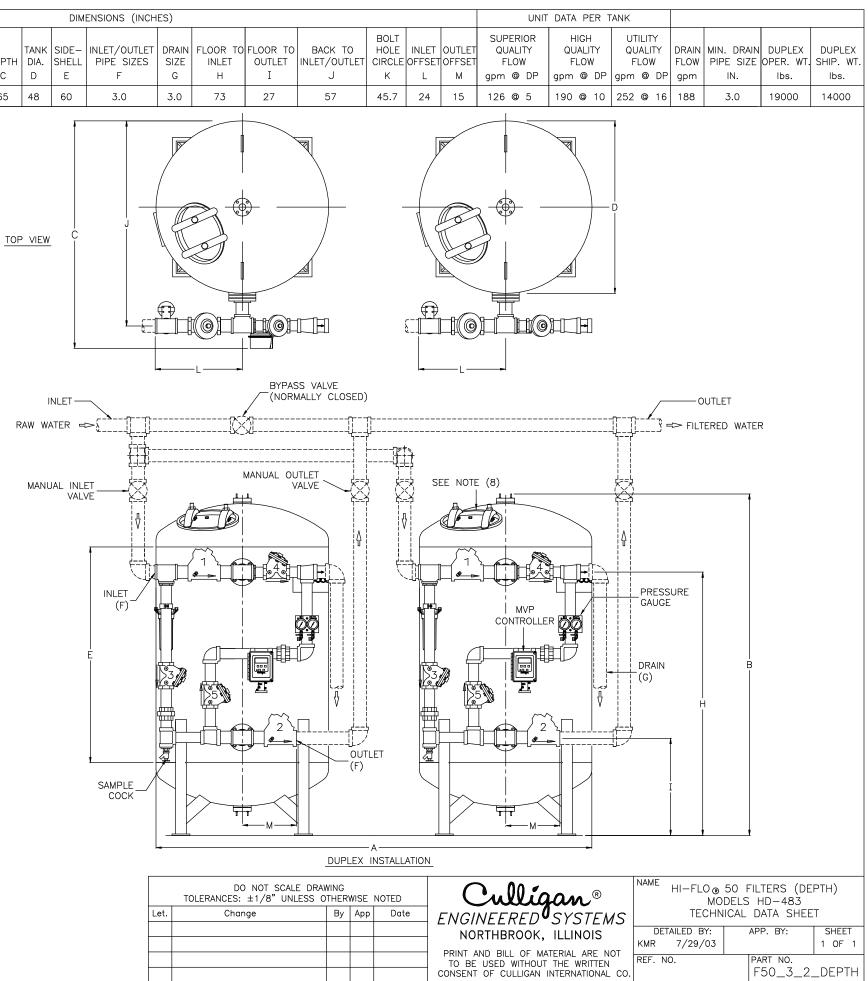
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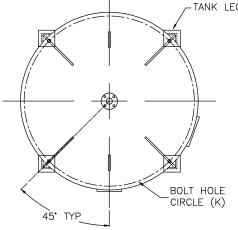


					DIM	ENSIONS (INCH	ES)							UNIT DATA PER			
	WIDTH	HEIGHT	DEPTH		SIDE- SHELL	INLET/OUTLET PIPE SIZES	DRAIN SIZE G	FLOOR TO INLET		BACK TO INLET/OUTLET	BOLT HOLE CIRCLE		OUTLET OFFSET M		HIGH QUALITY FLOW gpm @ DP		
MODEL	A	В	C			Г	G		1	5	n	L	IVI	gpin @ DF	gpm @ DF		
HD-483	110	93	65	48	60	3.0	3.0	73	27	57	45.7	24	15	126 @ 5	190 @ 10		



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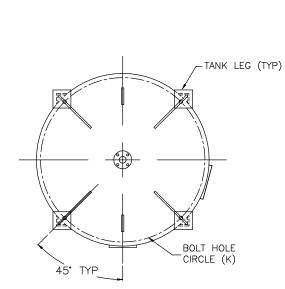
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(2) ALL DIMENSIONS ARE \pm 1 INCH (25mm) AND SUBJECT	HD-544	122	96	72	54	60	4.0	3.0	75	29	62	51.7	32	18	159 @ 5	240 @ 8	3 318	@ 11 210	3.0	24000	17600
TO CHANGE WITHOUT NOTICE. (3) UNIONS SHOULD BE LOCATED ON INLET AND OUTLET CONNECTIONS OF CONTROL VALVE TO FACILITATE SERVICING.	HD-604	134	98	78	60	60	4.0	3.0	76	30	68	57.63	32	18	196 @ 4	300 @ 1	10 392	@ 17 270	4.0	30000	21600
(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.					Î	Ī				R		/				A					
(5) AN ELECTRICAL OUTLET SHOULD BE PROVIDED WITHIN FIVE FEET OF THE EQUIPMENT LOCATION.								≥ –	÷					₹ —€) —		D				
(6) ALLOW A MINIMUM OF 24 INCHES ABOVE SOFTENER FOR FILLING.					 C	j 			Ŷ			1	To								
(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 OR CONFORM TO LOCAL SANITATION CODES.	PIPE		top vi	<u>EW</u>						A		ľ									
(8) ACCESS OPENINGS SHOWN ON TANK ARE FOR REFERENCE ONLY. QUANTITY, TYPE AND PLACEMENT ARE DEPENDENT ON TANK SIZE.										OH H											
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							L				DUPLEX INSTA	ALLATION									
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														PRIN	IT AND BILL	OOK, ILLINO	RE NOT	KMR 7/2 REF. NO.	9/03	PART NO.	1 OF 1
														CONS	BE USED W	ITHOUT THE WRI					2_DEPTH



DUPLEX	INSTALLATION

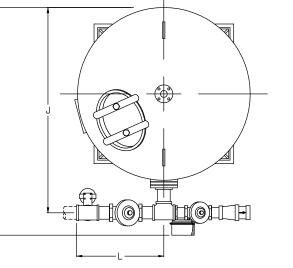
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- (1) ITEMS SHOWN IN BROKEN LINES TO BE FURNISHED BY OTHERS.
- (2) ALL DIMENSIONS ARE \pm 1 INCH (25mm) AND SUBJECT TO CHANGE WITHOUT NOTICE.
- (3) UNIONS SHOULD BE LOCATED ON INLET AND OUTLET CONNECTIONS OF CONTROL VALVE TO FACILITATE SERVICING.
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BOTTOM VIEW

		DIMENSIONS (INCHES)														
MODEL	WIDTH	HEIGHT	DEPTH C		SIDE- SHELL E	INLET/OUTLET PIPE SIZES F	DRAIN SIZE G	FLOOR TO INLET H			BOLT HOLE CIRCLE K		OUTLET OFFSET M		HIGH QUALIT FLOW gpm @	
HD-483	171	93	65	48	60	3.0	3.0	73	27	57	45.7	24	15	126 @ 5	190 @ ·	

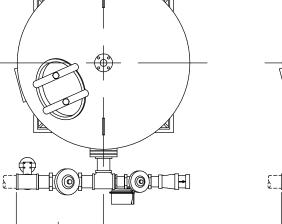


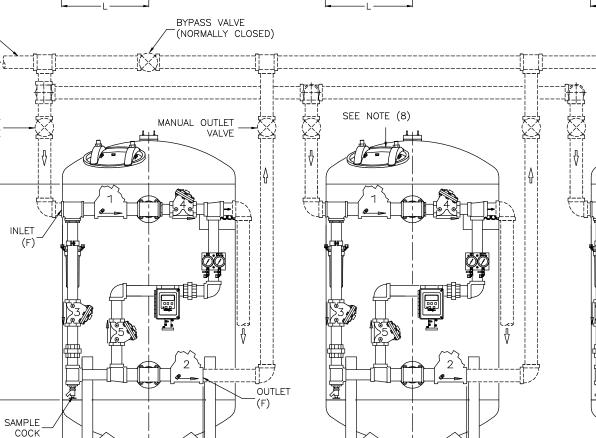
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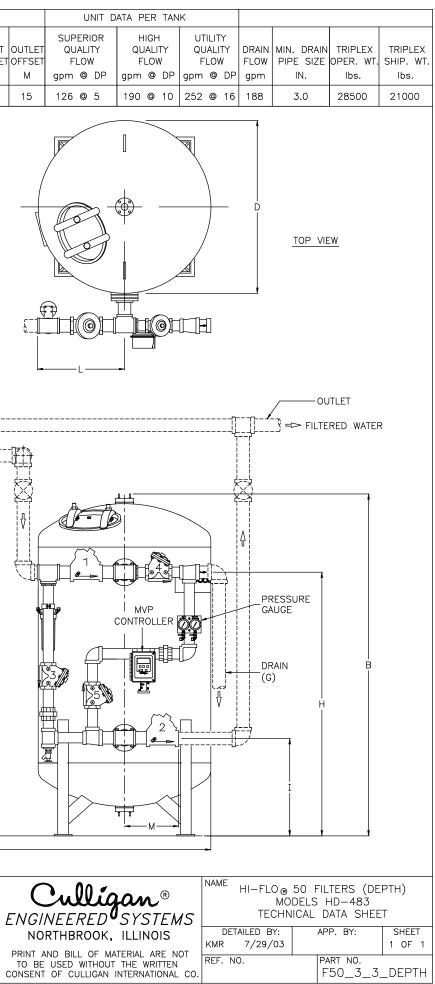
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TRIPLEX INSTALLATION

	DO NOT SCALE DRAV TOLERANCES: ±1/8" UNLESS O		WISE	NOTED	
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						DIM	ENSIONS (INCH	ES)							UNIT	DATA PER TA
NOTES: (1) ITEMS SHOWN IN BROKEN LINES TO BE FURNISHED	MODEL	WIDTH A	HEIGHT	DEPTH C			INLET/OUTLET PIPE SIZES F	DRAIN SIZE G	FLOOR TO INLET H		BACK TO INLET/OUTLET J			OUTLET OFFSET M	SUPERIOR QUALITY FLOW gpm @ DP	HIGH QUALITY FLOW gpm @ DP
BY OTHERS. (2) ALL DIMENSIONS ARE ± 1 INCH (25mm) AND SUBJECT	HD-544	189	96	72	54	60	4.0	3.0	75	29	62	51.7	32	18	159 @ 5	240 @ 8
TO CHANGE WITHOUT NOTICE. (3) UNIONS SHOULD BE LOCATED ON INLET AND OUTLET CONNECTIONS OF CONTROL VALVE TO FACILITATE SERVICING.	HD-604	207	98	78	60	60	4.0	3.0	76	30	68	57.63	32	18	196 @ 4	300 @ 10
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(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.	 C	j I			J.	4			4		↓ Ψ					
(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 F OR CONFORM TO LOCAL SANITATION CODES.	PIPE		Ĺ									A	/			
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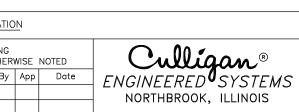
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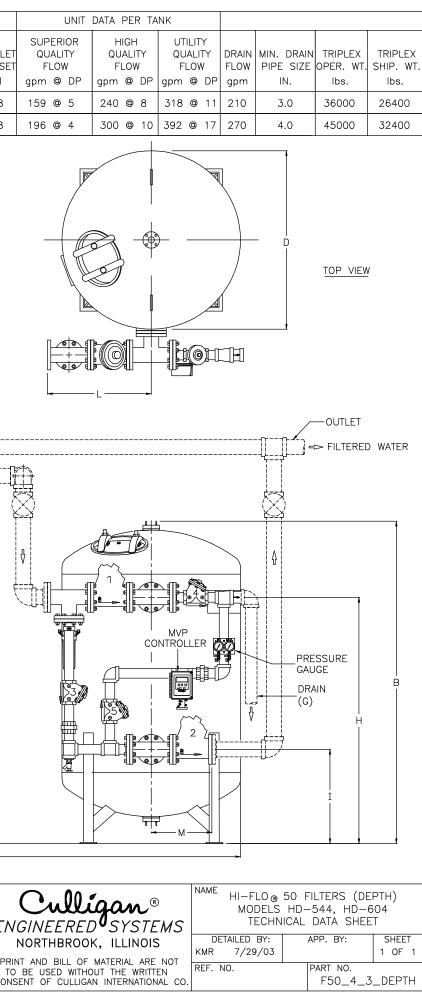
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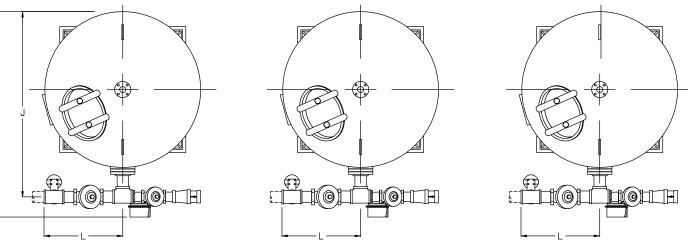
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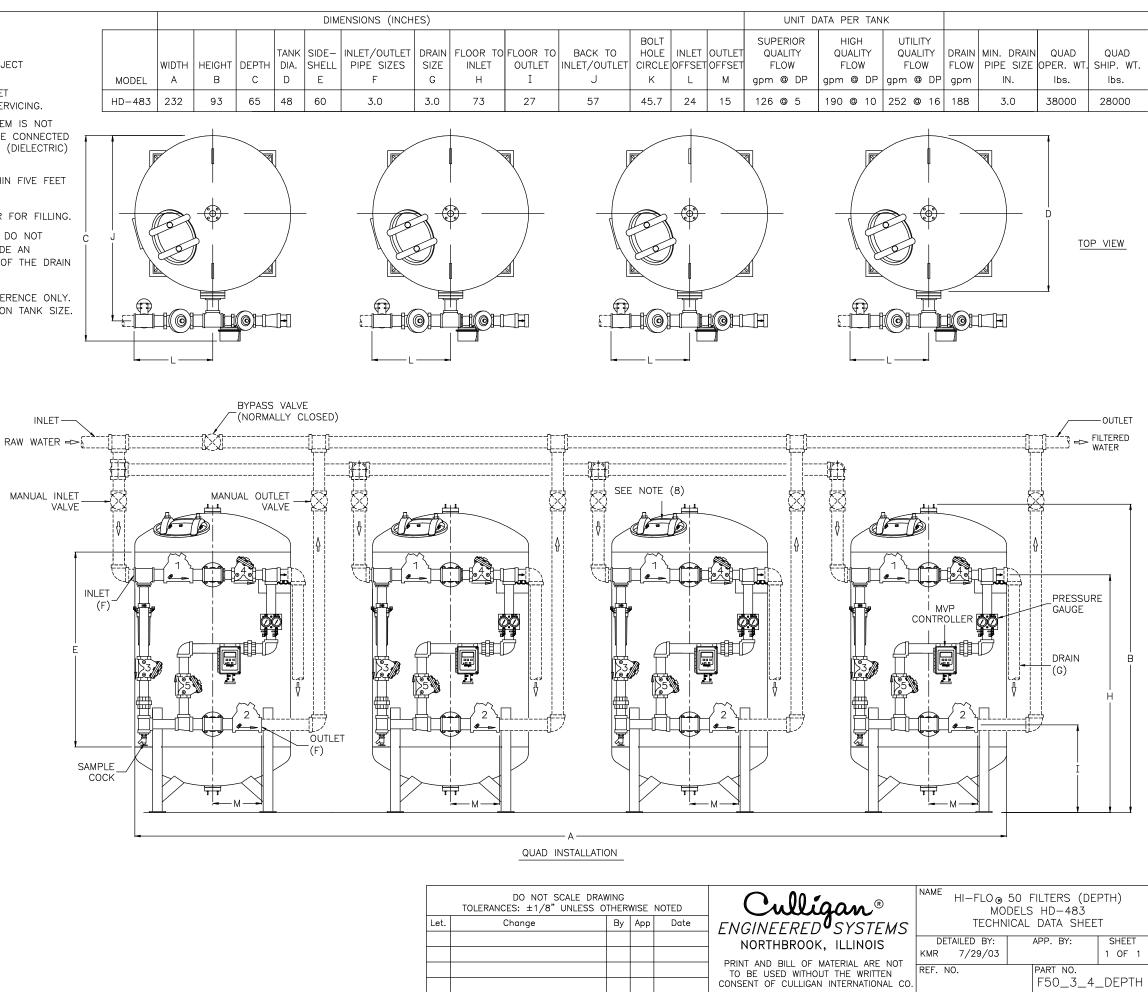




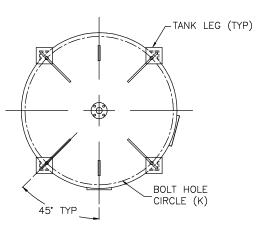
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					DIM	ENSIONS (INCH	ES)							UNIT DATA PER TAN		
	WIDTH	HEIGHT			SIDE-	INLET/OUTLET PIPE SIZES	DRAIN SIZE	FLOOR TO		BACK TO	BOLT HOLE				HIGH QUALITY FLOW	
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HD-483	232	93	65	48	60	3.0	3.0	73	27	57	45.7	24	15	126 @ 5	190 © 10	





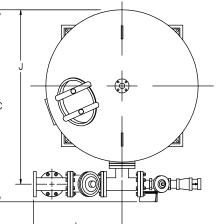
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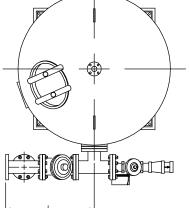


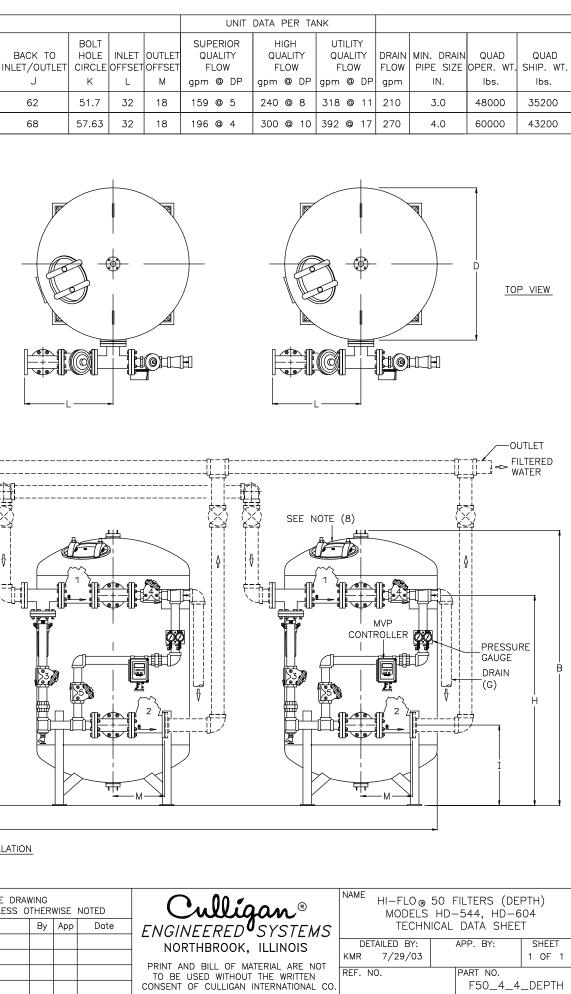
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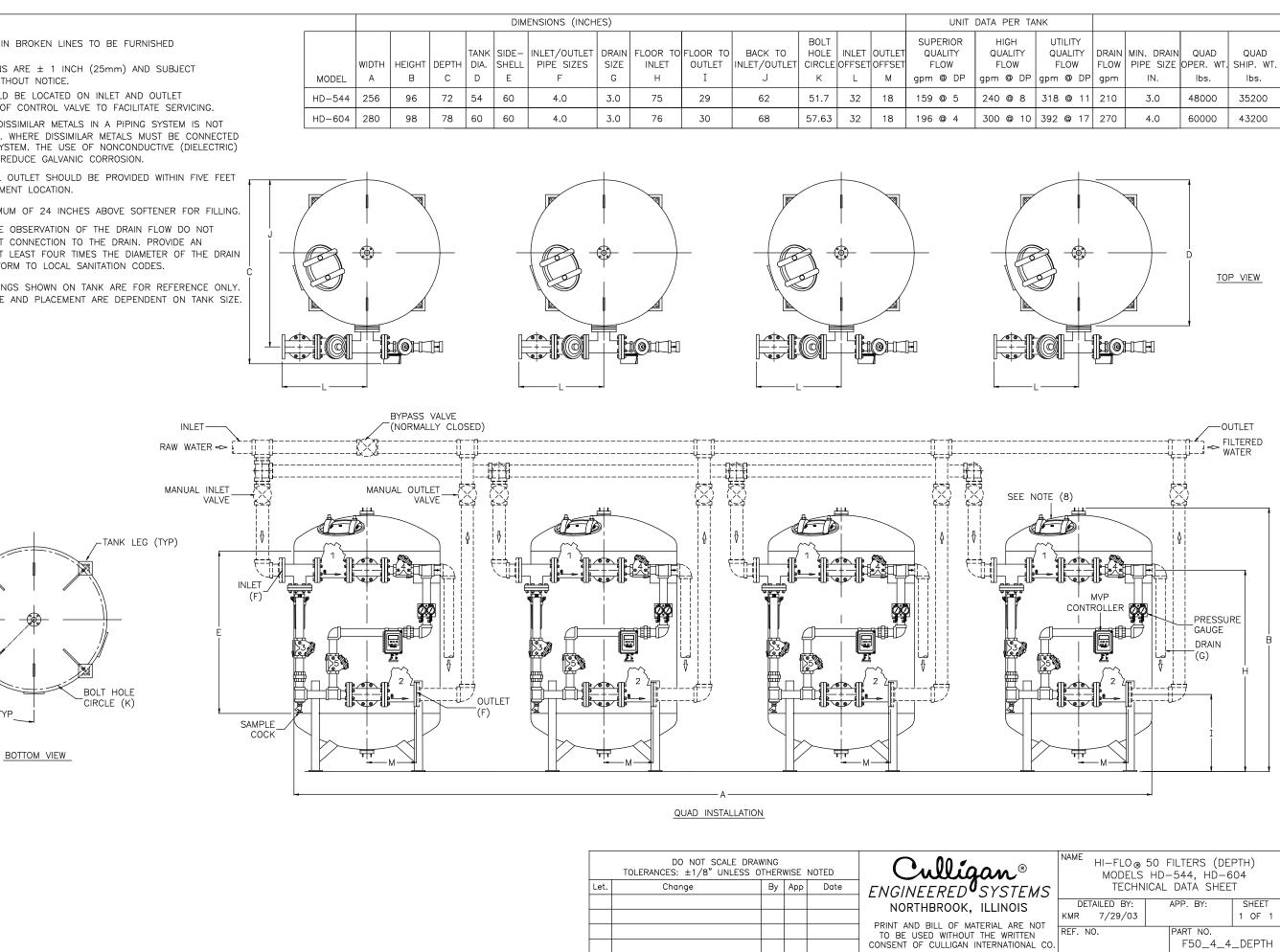
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		DIMENSIONS (INCHES)														
MODEL	WIDTH	HEIGHT	DEPTH		SIDE- SHELL	INLET/OUTLET PIPE SIZES	DRAIN SIZE G	FLOOR TO INLET H		BACK TO INLET/OUTLET	BOLT HOLE CIRCLE K		OUTLET OFFSET M		HIGH QUALIT FLOW gpm @	
MODEL	A	D	L C	U	E	Г	G		1	J	n	L	IVI	gpm @ DF	gpm @	
HD-544	256	96	72	54	60	4.0	3.0	75	29	62	51.7	32	18	159 @ 5	240 🕲 -	
HD-604	280	98	78	60	60	4.0	3.0	76	30	68	57.63	32	18	196 @ 4	300 @	





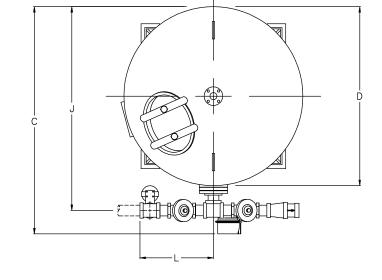




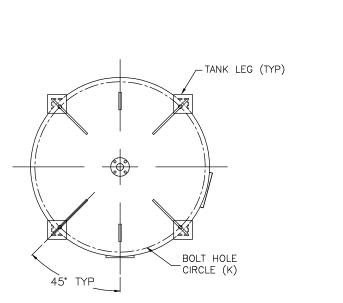
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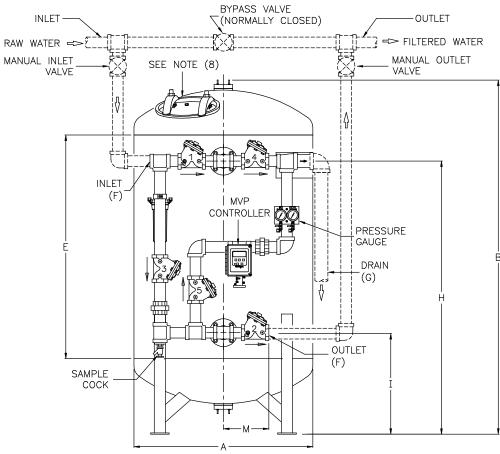
		DIMENSIONS (INCHES)													
											BOLT			SUPERIOR	HIGH
				TANK	SIDE-	INLET/OUTLET	DRAIN	FLOOR TO	FLOOR TO	BACK TO	HOLE	INLET	OUTLET	QUALITY	QUALITY
	WIDTH	HEIGHT	DEPTH	DIA.	SHELL	PIPE SIZES	SIZE	INLET	OUTLET	INLET/OUTLET	CIRCLE	OFFSET	OFFSET	FLOW	FLOW
MODEL	А	В	С	D	E	F	G	Н	I	J	к	L	М	gpm © DP	gpm © DF
HR-4825	49	93	64	48	60	2.5	3.0	73	27	57	45.7	20	12	50 @ 2	75 @ 6



TOP VIEW



BOTTOM VIEW



SINGLE INSTALLATION

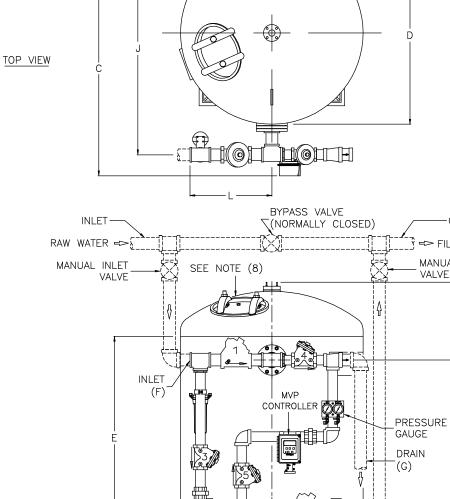
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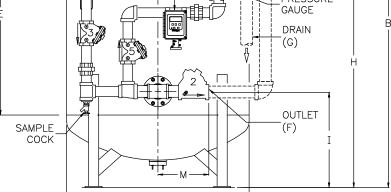
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						DIM	ENSIONS (INCH	IES)													
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NOTES:							INLET/OUTLET		FLOOR TO			HOLE IN			QUALITY	QUALITY			MIN. DRAIN		
		WIDTH	HEIGHT	DEPTH	DIA.	SHELL	PIPE SIZES	SIZE	INLET	OUTLET	INLET/OUTLET	CIRCLE OF	FSET	OFFSET	FLOW	FLOW	FLOW	FLOW	PIPE SIZE	OPER. WT.	SHIP. WT.
(1) ITEMS SHOWN IN BROKEN LINES TO BE FURNISHED BY OTHERS.	MODEL	A	В	С	D	E	F	G	н	I	J	К	L	М	gpm @ DP	gpm @ DP	gpm @ DP	gpm	IN.	lbs.	lbs.
(2) ALL DIMENSIONS ARE ± 1 INCH (25mm) AND SUBJECT	HR-543	55	96	70	54	60	3.0	3.0	75	29	62	51.7	24	15	64 @ 4	95 @ 8	127 @ 13	160	3.0	9900	6500
TO CHANGE WITHOUT NOTICE. (3) UNIONS SHOULD BE LOCATED ON INLET AND OUTLET	HR-603	61	98	76	60	60	3.0	3.0	76	30	68	57.63	24	15	78 @ 4	118 @ 2	157 © 5	210	3.0	12200	8000
CONNECTIONS OF CONTROL VALVE TO FACILITATE SERVICING.																					

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SINGLE INSTALLATION

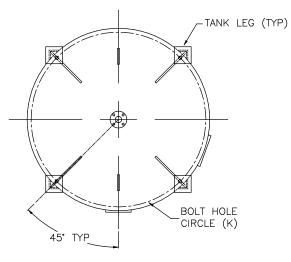
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-OUTLET

⇒ FILTERED WATER

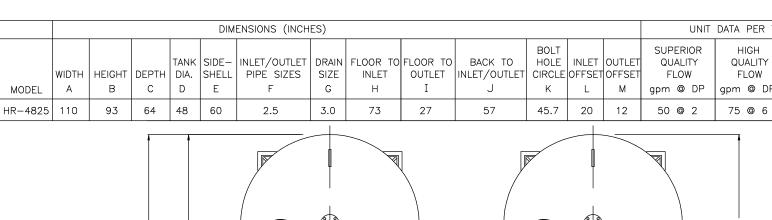
MANUAL OUTLET

VALVE



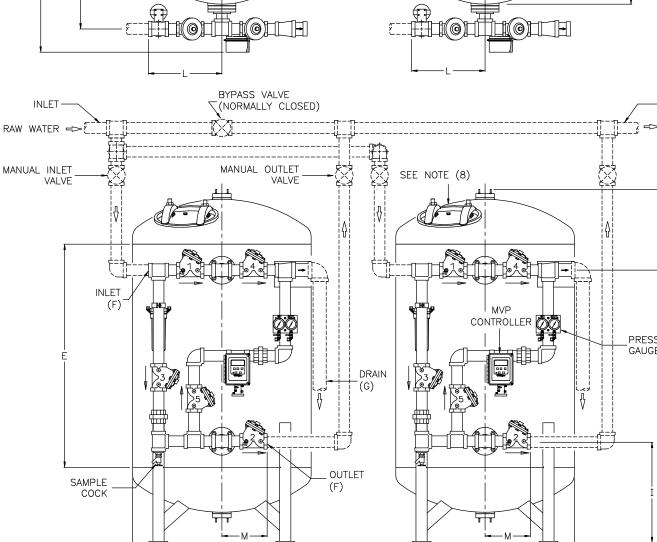
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LLINOIS RIAL ARE NOT	DETAILED BY: KMR 12/03/03	APP. BY:	SHEET 1 OF 1
HE WRITTEN ERNATIONAL CO.	REF. NO.	PART NO. F50_3_1_	_CARBON

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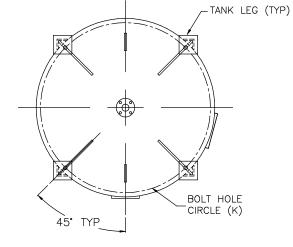
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DUPLEX INSTALLATION

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					PRINT AND BILL OF MATERIAL AF TO BE USED WITHOUT THE WRI CONSENT OF CULLIGAN INTERNATION



UNIT	DATA PER TA	ANK					
SUPERIOR QUALITY FLOW	HIGH QUALITY FLOW	QU. Fl	ILITY ALITY _OW	DRAIN FLOW		OPER. WT.	
gpm @ DP	gpm @ DP		@ DP	gpm	IN.	Ibs.	lbs.
50 @ 2	75 @ 6	100	@ 10	136	3.0	15600	10400
		?E	ET D WAT	ER			
				I			
Cullí GINEERED	gan [®]	MC	NAME		0 _® 50 FIL MODELS I ECHNICAL I	HR-4825	
<i>>INEERED</i> IORTHBROOK	, ILLINOIS	IVI J		TAILED	BY: Al	PP. BY:	SHEET
T AND BILL OF N	IATERIAL ARE		KMR	7/16			1 OF 1
BE USED WITHOU INT OF CULLIGAN	JT THE WRITTE	N	REF. I	NU.		ART NO. 50_25_2	_CARBON
			I				

					DIM	ENSIONS (INCH	ES)			UNI	t data per	TANK								
	WIDTH	HEIGHT	DEPTH			INLET/OUTLET PIPE SIZES	DRAIN SIZE	FLOOR TO INLET		BACK TO INLET/OUTLET	BOLT HOLE CIRCLE			SUPERIOR QUALITY FLOW	HIGH QUALITY FLOW			MIN. DRAIN PIPE SIZE		DUPLEX SHIP. WT.
MODEL	A	В	С	D	E	F	G	Н	Ι	J	К	L	М	gpm @ DP	gpm @ DP	gpm @ DP	gpm	IN.	lbs.	lbs.
HR-543	122	96	70	54	60	3.0	3.0	75	29	62	51.7	24	15	64 @ 4	95 @ 8	127 @ 13	160	3.0	19800	13000
HR-603	134	98	76	60	60	3.0	3.0	76	30	68	57.63	24	15	78 @ 4	118 @ 2	157 © 5	210	3.0	24400	16000

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

(1) ITEMS SHOWN IN BROKEN LINES TO BE FURNISHED

(2) ALL DIMENSIONS ARE ± 1 INCH (25mm) AND SUBJECT

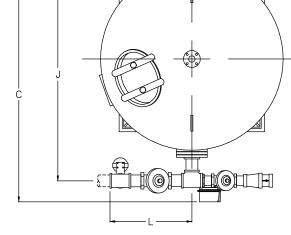
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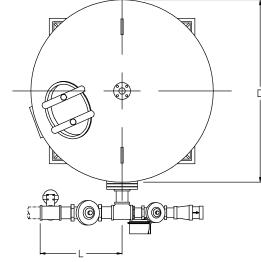
BY OTHERS.

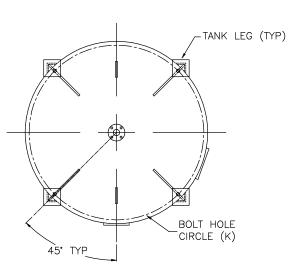
TO CHANGE WITHOUT NOTICE.

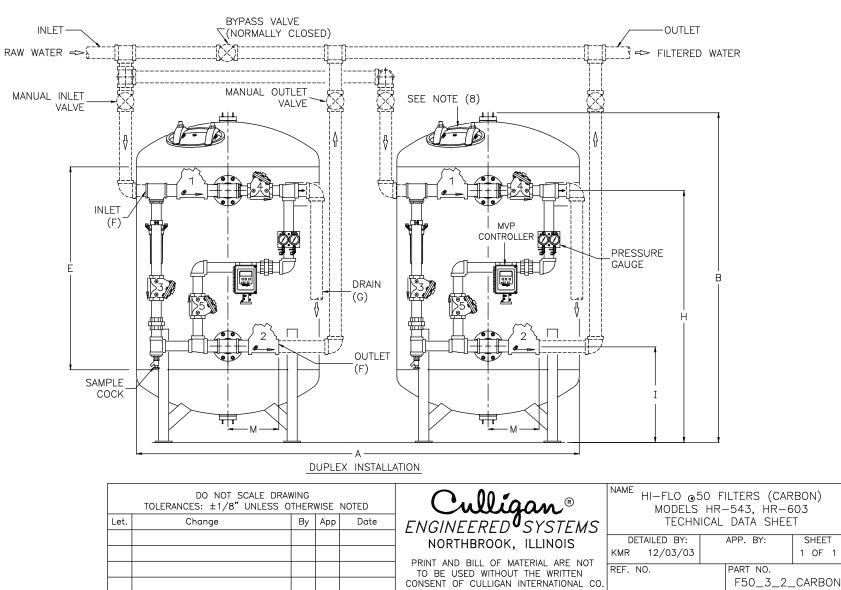
- (4) THE USE OF DISSIMILAR METALS IN A PIPING SYSTEM IS NOT RECOMMENDED. WHERE DISSIMILAR METALS MUST BE CONNECTED IN A WATER SYSTEM. THE USE OF NONCONDUCTIVE (DIELECTRIC) FITTINGS MAY REDUCE GALVANIC CORROSION.
- (5) AN ELECTRICAL OUTLET SHOULD BE PROVIDED WITHIN FIVE FEET OF THE EQUIPMENT LOCATION.
- (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) ACCESS OPENINGS SHOWN ON TANK ARE FOR REFERENCE ONLY. QUANTITY, TYPE AND PLACEMENT ARE DEPENDENT ON TANK SIZE.

TOP VIEW



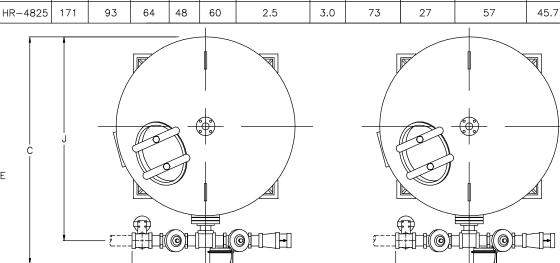






Culligo ENGINEERED S	NOTED	WISE		DO NOT SCALE DRA TOLERANCES: ±1/8" UNLESS (
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PRINT AND BILL OF MATEI TO BE USED WITHOUT TH					
CONSENT OF CULLIGAN INT					

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BYPASS VALVE

DIMENSIONS (INCHES)

PIPE SIZES

F

INLET/OUTLET DRAIN FLOOR TO FLOOR TO

INLET

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OUTLET

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SIZE

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FANK SIDE-

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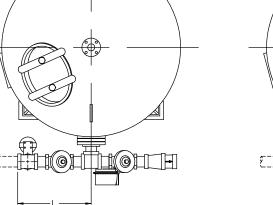
С

WIDTH | HEIGHT | DEPTH

В

А

MODEL



BOLT

BACK TO

J

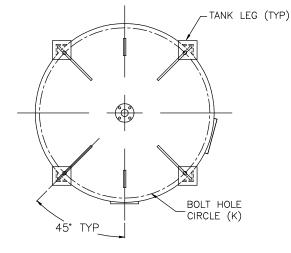
INLET/OUTLET

HOLE

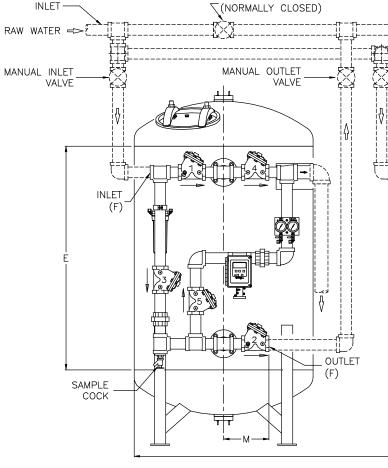
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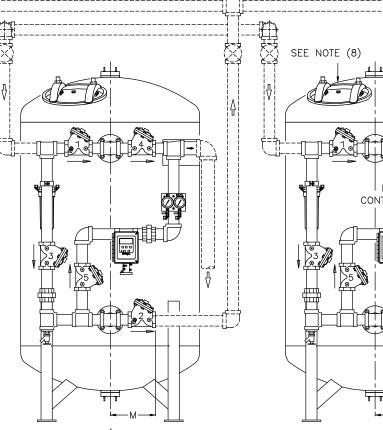
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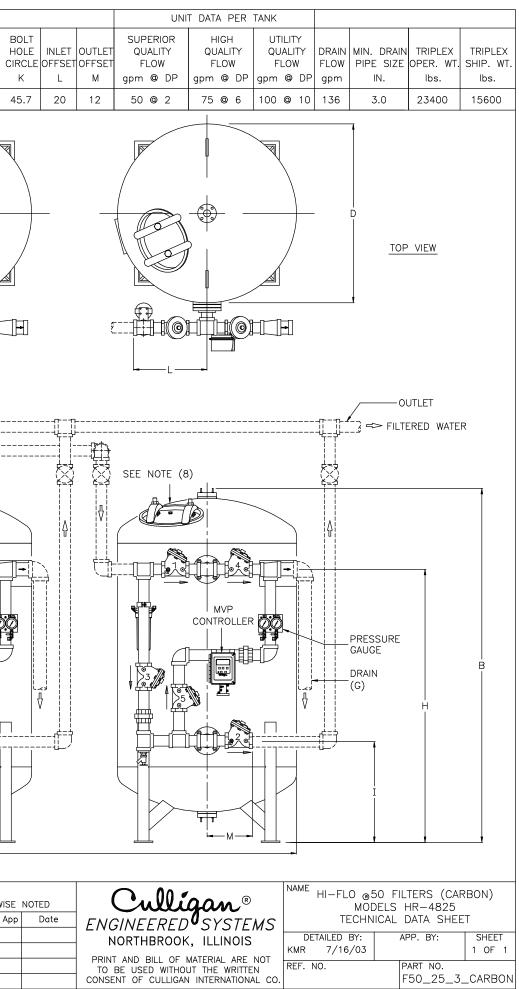
BOTTOM VIEW





TRIPLEX INSTALLATION

		DO NOT SCALE DRAW TOLERANCES: ±1/8" UNLESS O		WISE	NOTED	
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		DIMENSIONS (INCHES)										UNIT DATA PER TANK									
					τανικ	SIDE-	INLET/OUTLET		FLOOR TO	FLOOR TO	ВАСК ТО	BOLT HOLE	INLET	ομτι έτ	SUPERIOR HIGH UTILITY QUALITY QUALITY QUALITY		DRAIN		TRIPLEX	TRIPLEX	
	WID ⁻	тн н	HEIGHT			SHELL	PIPE SIZES	SIZE	INLET	1						FLOW		1	PIPE SIZE		
MODE	EL A		В	С	D	Е	F	G	Н	I	J	K	L	М	gpm @ DP	gpm @ DP	gpm @ DP	gpm	IN.	lbs.	lbs.
HR-5	43 189	9	96	70	54	60	3.0	3.0	75	29	62	51.7	24	15	64 @ 4	95 @ 8	127 @ 13	160	3.0	29700	19500
HR-6	03 20 ⁻	7	98	76	60	60	3.0	3.0	76	30	68	57.63	24	15	78 @ 4	118 @ 2	157 @ 5	210	3.0	36600	24000

(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

(1) ITEMS SHOWN IN BROKEN LINES TO BE FURNISHED

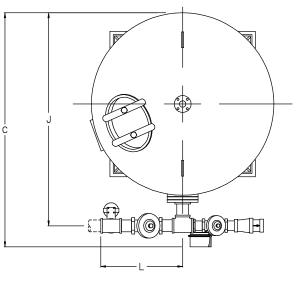
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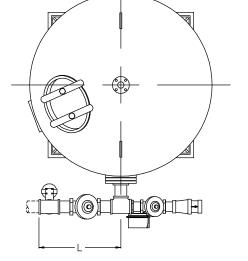
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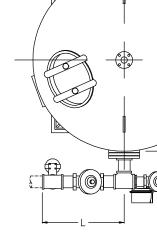
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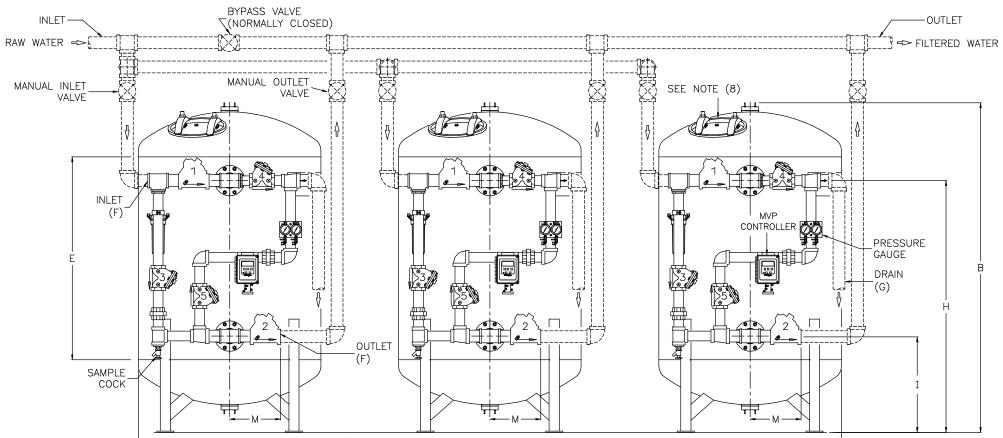
TO CHANGE WITHOUT NOTICE.

- 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) ACCESS OPENINGS SHOWN ON TANK ARE FOR REFERENCE ONLY. QUANTITY, TYPE AND PLACEMENT ARE DEPENDENT ON TANK SIZE.



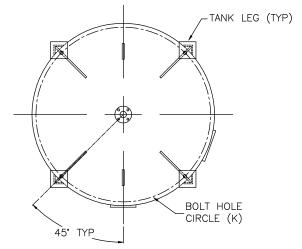




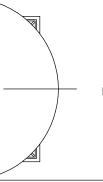


٠A TRIPLEX INSTALLATION

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BOTTOM VIEW

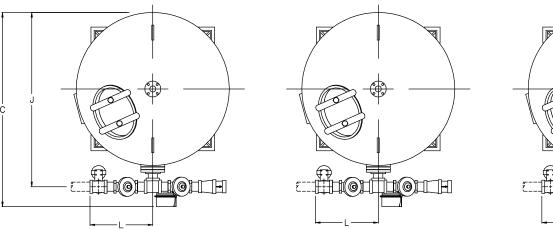


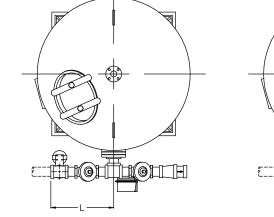
TOP VIEW

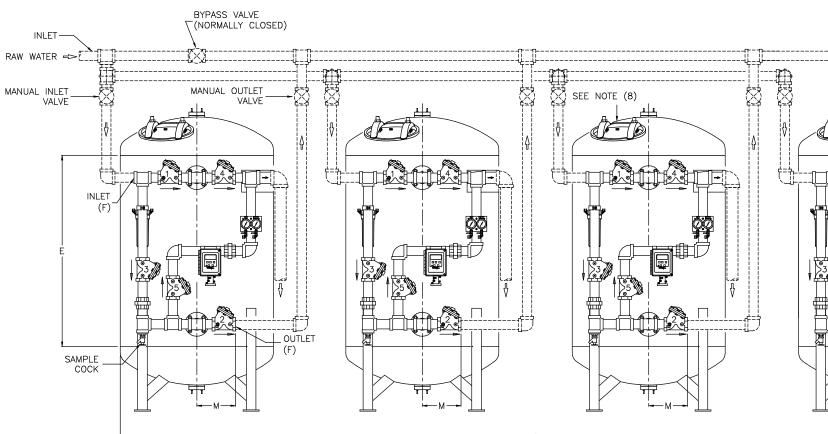


ہ ®	MODELS	HR-	ILTERS (CAR -543, HR-6	SO3 ⁽
STEMS	TECHN	ICAL	DATA SHEE	.1
NOIS	DETAILED BY:		APP. BY:	SHEET
ARE NOT	KMR 12/03/03			1 OF 1
WRITTEN	REF. NO.		PART NO.	
NATIONAL CO.			F50_3_3_	_CARBON

DIMENSIONS (INCHES) BOLT (1) ITEMS SHOWN IN BROKEN LINES TO BE FURNISHED SUPERIOR BY OTHERS. TANK SIDE-INLET/OUTLET DRAIN FLOOR TO FLOOR TO BACK TO HOLE INLET OUTLE QUALITY WIDTH HEIGHT DEPTH DIA. SHELL PIPE SIZES SIZE INLET OUTLET INLET/OUTLET CIRCLE OFFSET OFFSE FLOW (2) ALL DIMENSIONS ARE ± 1 INCH (25mm) AND SUBJECT Е TO CHANGE WITHOUT NOTICE. MODEL Α В С D F G Н T Κ L М gpm @ DP (3) UNIONS SHOULD BE LOCATED ON INLET AND OUTLET HR-4825 232 93 64 48 60 2.5 3.0 73 27 57 45.7 20 12 50 @ 2 CONNECTIONS OF CONTROL VALVE TO FACILITATE SERVICING. (4) THE USE OF DISSIMILAR METALS IN A PIPING SYSTEM IS NOT







QUAD INSTALLATION

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			•										

- TANK LEG (TYP) BOLT HOLE CIRCLE (K) 45° TYP

RECOMMENDED. WHERE DISSIMILAR METALS MUST BE CONNECTED IN A WATER SYSTEM. THE USE OF NONCONDUCTIVE (DIELECTRIC)

(5) AN ELECTRICAL OUTLET SHOULD BE PROVIDED WITHIN FIVE FEET

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AIR GAP OF AT LEAST FOUR TIMES THE DIAMETER OF THE DRAIN PIPE

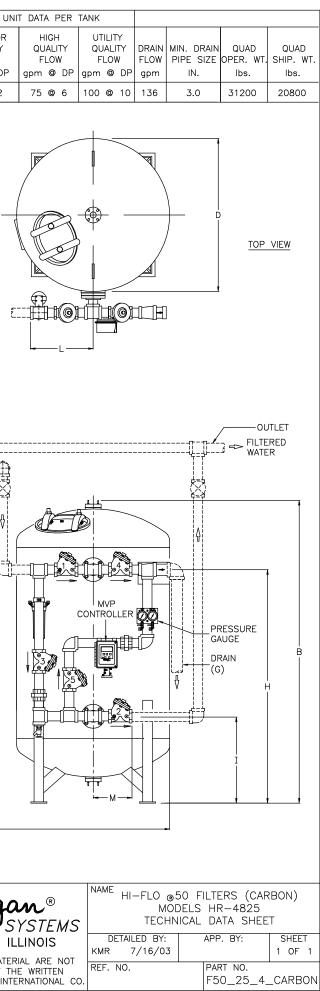
FITTINGS MAY REDUCE GALVANIC CORROSION.

OR CONFORM TO LOCAL SANITATION CODES.

OF THE EQUIPMENT LOCATION.

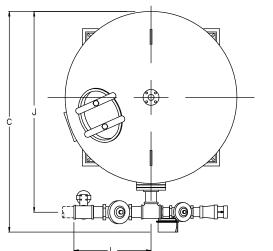
BOTTOM VIEW

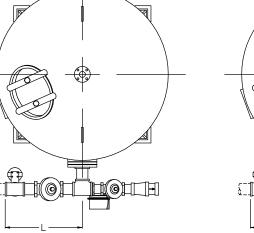
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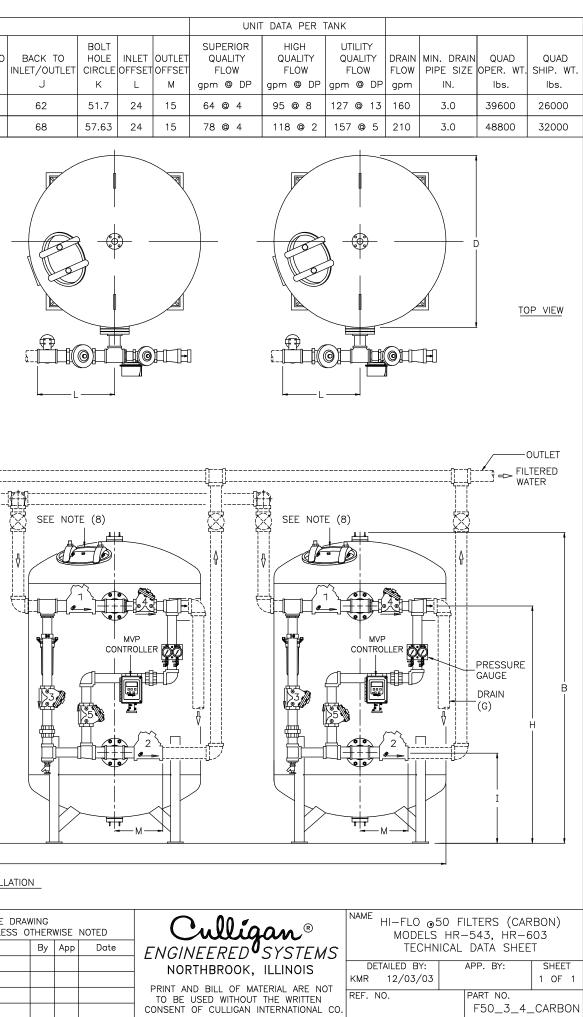


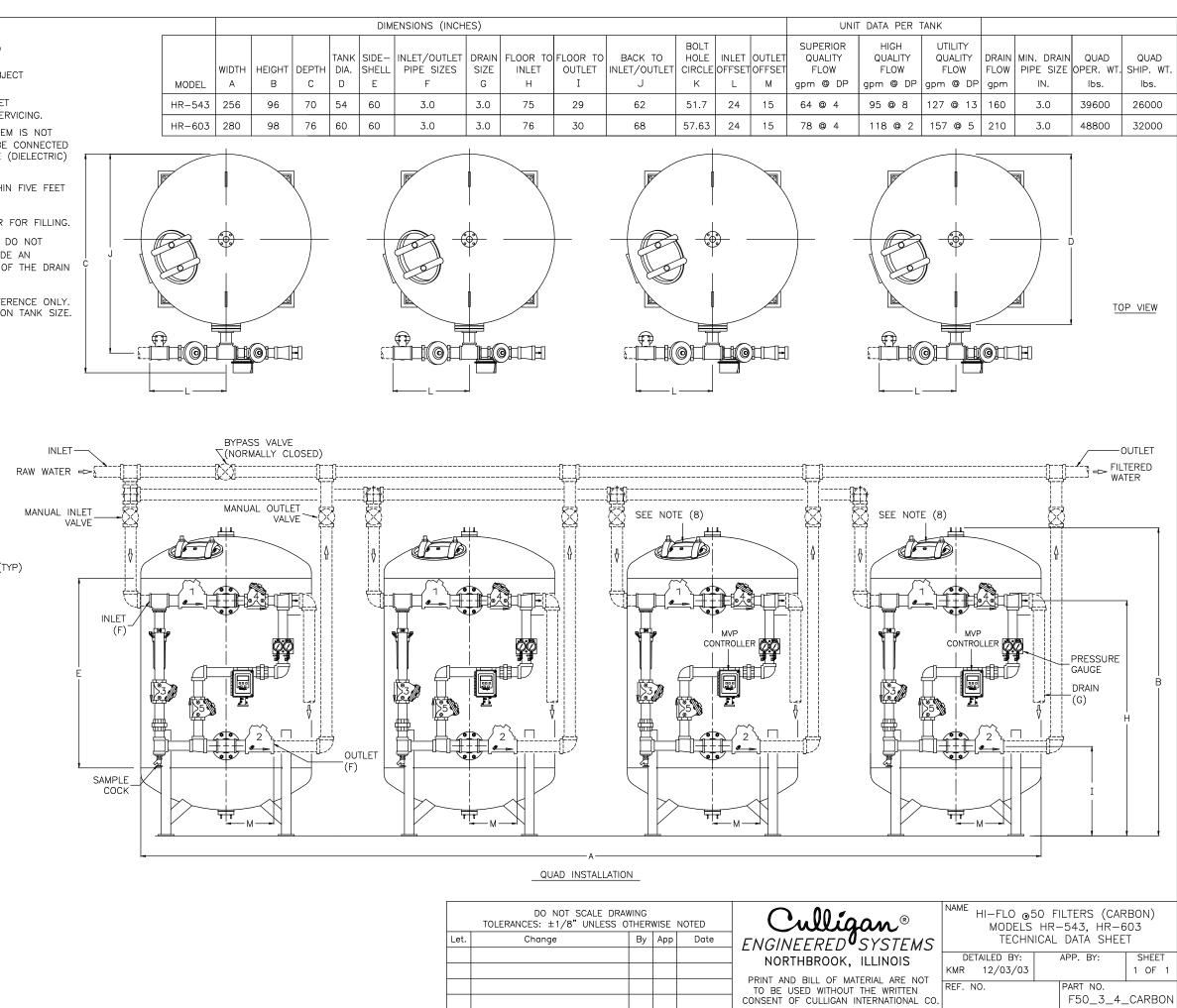
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	DIMENSIONS (INCHES)													UNIT DATA		
MODEL	WIDTH A	HEIGHT B	DEPTH C		SIDE- SHELL E	INLET/OUTLET PIPE SIZES F	DRAIN SIZE G	FLOOR TO INLET H					OUTLET OFFSET M		HIG QUAI FLC gpm @	
HR-543	256	96	70	54	60	3.0	3.0	75	29	62	51.7	24	15	64 @ 4	95 @	
HR-603	280	98	76	60	60	3.0	3.0	76	30	68	57.63	24	15	78 @ 4	118 (









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