

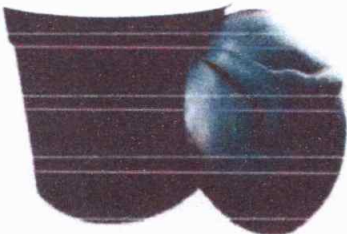
 NIT.800012638-2	GESTION DOCUMENTAL		 HATO COROZAL ALTO Y SOSTENIBLE
	SECRETARIA DE PLANEACIÓN Y POLÍTICA SECTORIAL		
	FICHA		
	Código: PA-GD-P05	Versión: 02	
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17.

FICHA TÉCNICA

 NIT.800012638-2	GESTION DOCUMENTAL		 HATO COROZAL ALTO Y SOSTENIBLE
	SECRETARIA DE PLANEACIÓN Y POLÍTICA SECTORIAL		
	FICHAS TÉCNICAS		
	Código: PA-GD-P05	Versión: 02	
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17. FICHAS TÉCNICAS

ITEM	27	IMAGEN
DENOMINACIÓN DE BIEN O SERVICIO	TANQUES	
DENOMINACIÓN TÉCNICA DEL BIEN O SERVICIO	Tanque de plástico	
GRUPO/CLASE/FAMILIA A LA QUE PERTENECE EL PRODUCTO	20142904	
UNIDAD DE MEDIDA	UNIDAD	
CANTIDAD	1	
DESCRIPCIÓN GENERAL	Tanque de 5.000 Litros, con conexión y distribución PVC de 2" y 1"	

SUMINISTRO DE INSUMOS PARA REALIZAR SISTEMA DE SUCCION Y ALMACENAMIENTO PARA LA CAPTACION Y CONDUCCION

REFERENCIA (CAPACIDADES)	MEDIDAS en (pulg.)				Almacenamiento y suministro segundo
	A	B	C	D	
60 Lts	47	62	38	50	50
105 Lts	42	62	60	72	50
210 Lts	55	76	76	85	40
250 Lts	56	62	78	91	40
480 Lts	74	98	84	95	30
500 Lts	80	106	84	99	30
820 Lts	88	119	111	125	25
1.000 Lts	99	130	111	127	25
2.000 Lts	121	161	151	168	15
2.500 Lts	130	167	167	181	15
3.000 Lts	127	182	177	191	10
4.000 Lts	167	206	184	200	7
5.000 Lts	172	221	197	213	5
10.000 Lts	216	268	265	281	4

A: Diámetro Base B: Diámetro Superior C: Altura sin Tapa D: Altura Con Tapa

Adaptadores



ADAPTADORES STANDAR

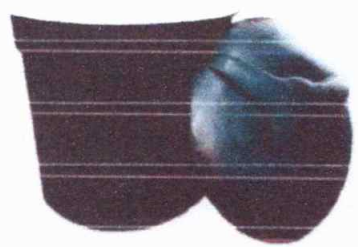


ADAPTADORES ESPECIALES



 NIT.800012638-2	GESTION DOCUMENTAL		 HATO COROZAL ALTO Y SOSTENIBLE
	SECRETARIA DE PLANEACIÓN Y POLÍTICA SECTORIAL		
	FICHAS TECNICAS		
	Código: PA-GD-P05	Versión: 02	Fecha: 21/01/2022 Página 2 de 4

SUMINISTRO DE INSUMOS PARA REALIZAR SISTEMA DE TRATAMIENTO DE AGUA Y ALMACEMANIENTO DE AGUA LIMPIA

ITEM	1	IMAGEN
DENOMINACIÓN DE BIEN O SERVICIO	TANQUES	
DENOMINACIÓN TÉCNICA DEL BIEN O SERVICIO	Tanque de plástico	
GRUPO/CLASE/FAMILIA A LA QUE PERTENECE EL PRODUCTO	20142904	
UNIDAD DE MEDIDA	UNIDAD	
CANTIDAD	1	
DESCRIPCIÓN GENERAL	Tanque de 2.000 Litros, con conexión y distribución PVC de 1 ½" y 1"	

REFERENCIA CAPACIDAD	MEDIDAS (en cm)				Almacenamiento y servicio
	A	B	C	D	
60 Lts	47	62	38	50	50
105 Lts	42	62	60	72	50
210 Lts	55	76	76	85	40
250 Lts	56	82	78	91	40
410 Lts	74	98	84	95	30
500 Lts	80	106	84	99	30
820 Lts	86	119	111	125	25
1.000 Lts	99	130	111	127	25
2.000 Lts	121	161	124	168	15
2.500 Lts	130	167	167	181	15
3.000 Lts	127	182	177	191	10
4.000 Lts	167	208	184	200	7
5.000 Lts	172	221	197	213	5
10.000 Lts	208	268	265	281	4

A: Diámetro Base B: Diámetro Superior C: Altura sin Tapa D: Altura Con Tapa

ADAPTADORES



ADAPTADORES STANDAR



ADAPTADORES ESPECIALES



 NIT.800012638-2	GESTION DOCUMENTAL		 HATO COROZAL ALTO Y SOSTENIBLE
	SECRETARIA DE PLANEACIÓN Y POLÍTICA SECTORIAL		
	FICHAS TECNICAS		
	Código: PA-GD-P05	Versión: 02	
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ITEM	I	IMAGEN
DENOMINACIÓN DE BIEN O SERVICIO	TANQUES	
DENOMINACIÓN TÉCNICA DEL BIEN O SERVICIO	Tanque de fibra de vidrio	
GRUPO/CLASE/FAMILIA A LA QUE PERTENECE EL PRODUCTO	20142902	
UNIDAD DE MEDIDA	UNIDAD	
CANTIDAD	4	
DESCRIPCIÓN GENERAL	1). Filtros para Resina Catódica Ø10" (62,00 litros, 50-70 psi); 2) Filtro para Floculador Ø10" (60,00 litros, 50 - 70 PSI), 3). Filtro para de Zeolita Ø10" (60,00 litros, 50- 70 PSI), 4). Filtros para Desodorizado de Carbón Activado Ø10" (60,0 litros, 50 – 70 psi). En PRFV (Polietileno reforzado con fibra de vidrio).	

Tanque polyglass 10"x54" con válvula manual



VALVULA MANUAL de 3 vias o Multiválvula.
Para una sencilla operación Manual, diseñada para aplicaciones de entrada y salida y retrolavado.
Rosca en la base: 2.5 pulgadas
Entrada y salida: 1 pulgada
Medidas: 149 x 127 x 180 mm
Incluye las 2 canastillas (Difusores)

El tanque ideal para aplicaciones residenciales y comerciales de suavizamiento de agua y filtros.
Estructural Poly Glass, provee largo tiempo de servicio continuo para suavizamiento y filtración de agua.

Estos tanques ofrecen una duración sin comparación y una excelente resistencia química.
Estos tanques cumplen con todos los estándares de Calidad y de Seguridad.

TANQUE: 10 x 54 pulgadas
Diametro: 10 pulgadas - 25 cm
Medida 135 cm de alto
Medida con base 138 cm
Entrada Roscada o abertura Superior : 2.5 pulgadas
Capacidad: 16.4 galones - 62 litros por minuto
Capacidad en Pies cúbicos: 2.2
Carcasa interior con Revestimiento de polietileno de alta densidad continuo y de una pieza.
Resistencia a los productos químicos.
Presión operativa máxima: 150 Psi.
Temperatura Operativa máxima: 120 grados f.
Parametros de Diseño:
Factor de seguridad: 4:1
Explosión minima: 600 Psi.

Capacidad de flujo de agua : 8 GPM en filtros de arena y 6 GPM en filtro de carbón.

Poly Glass™ Vessels

El tanque ideal para aplicaciones residenciales y comerciales de suavizamiento de agua y filtros.

Structural Poly Glass™ pressure vessels, provee largo tiempo de servicio continuo para suavizamiento y filtración de agua.

Estos tanques de diametro chico contienen hasta 49 galones of agua y ofrecen una duracion sin comparacion mas una resistencia química unica. Todos los 6"-13" PG's estan respaldados por una garantia de 10-year. Todos 14"-16"

Poly Glass vessels estan respaldados por una garantia exclusiva de 60-meses.



Material de construccion

Fornio interior:
Polietileno

Vea la pagina proxima:
para opciones.

Parametros de Operacion

Presion Maxima de operacion:
150 psi

Temperatura Maxima de operacion:
120 °F

Parametros de Diseno – Pentair

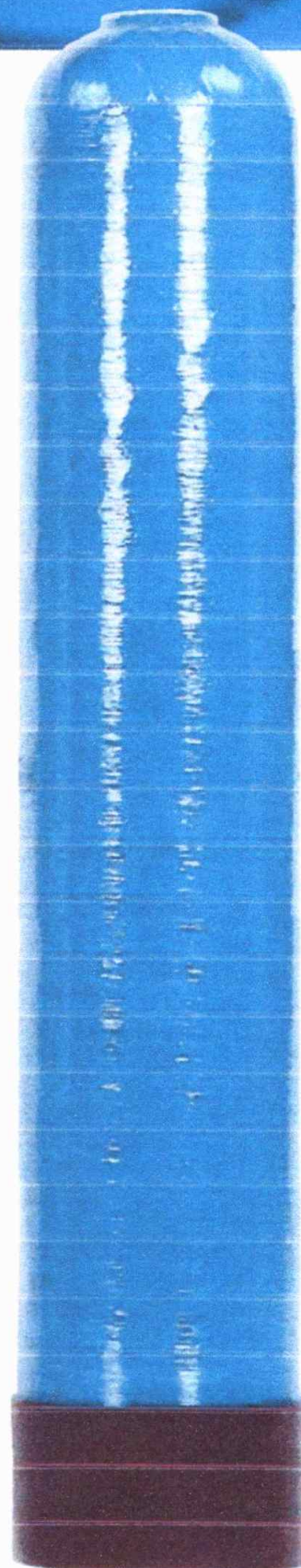
Factor de Seguridad:
4:1 (Minimum burst at 600 psi)

Prueba de Ciclos:
250,000 ciclos sin goteo

Parametros de Diseno – NSF

Factor de Seguridad:
4:1 (Minimum burst at 600 psi)

Prueba de Ciclos:
100,000 ciclos sin goteo



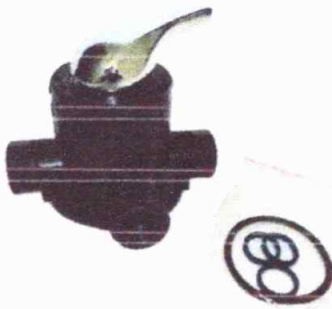
Poly Glass

Especificaciones

Part No.	Size (Inches)	System Connection	Height w/ Base Inches / mm	Height w/o Base Inches / mm	Capacity Gallons / Liters	Cubic Feet	Colors	Minimum Order Quantity
30109	06 x 13	2.5" Threaded	13.2 / 335	12.6 / 320	1.1 / 4.2	0.15	AL, BL, NA	See Factory
30127	06 x 18	2.5" Threaded	18.6 / 472	18.0 / 457	1.8 / 6.8	0.24	All	None
30151	06 x 35	2.5" Threaded	35.8 / 909	35.2 / 894	3.8 / 14.4	0.51	All	None
30190	07 x 35	2.5" Threaded	35.6 / 904	35.3 / 897	5.2 / 19.7	0.7	AL, BL, NA	See Factory
30213	07 x 44	2.5" Threaded	43.7 / 1110	43.4 / 1102	6.7 / 25.4	0.9	AL, BL, NA	See Factory
31835	08 x 18	2.5" Threaded	18.8 / 478	18.5 / 470	3.28 / 12.0	-	AL, NA	See Factory
30244	08 x 35	2.5" Threaded	35.6 / 904	35.3 / 897	6.6 / 25.0	0.88	All	None
30284	08 x 40	2.5" Threaded	40.2 / 1021	39.9 / 1013	7.8 / 29.5	1.04	All	None
30305	08 x 44	2.5" Threaded	44.4 / 1128	44.1 / 1120	8.7 / 32.9	1.16	All	None
30317	09 x 18	2.5" Threaded	18.6 / 472	18.0 / 457	3.9 / 14.8	0.52	AL, BL, NA	See Factory
30347	09 x 35	2.5" Threaded	35.6 / 904	35.3 / 897	8.3 / 31.4	1.11	All	None
30360	09 x 40	2.5" Threaded	40.2 / 1021	39.9 / 1013	9.5 / 31.4	1.27	All	None
30383	09 x 48	2.5" Threaded	48.2 / 1224	47.9 / 1217	11.8 / 44.7	1.58	All	None
30460	10 x 35	2.5" Threaded	35.6 / 904	35.3 / 897	10.2 / 38.6	1.36	All	None
30491	10 x 40	2.5" Threaded	40.3 / 1024	40.1 / 1018	11.5 / 43.5	1.54	All	None
30523	10 x 44	2.5" Threaded	44.6 / 1133	44.4 / 1128	13.1 / 49.6	1.75	All	None
30546	10 x 47	2.5" Threaded	47.4 / 1204	46.9 / 1191	15.1 / 57.0	2.02	All	None
30579	10 x 54	2.5" Threaded	54.8 / 1392	54.6 / 1387	16.4 / 62.0	2.19	All	None
32045	10 x 54	2.5" Threaded 1.25 TDH	54.8 / 1392	54.6 / 1387	16.4 / 62.0	2.19	All	None
30615	12 x 42	2.5" Threaded	42.8 / 1087	42.2 / 1072	19.1 / 72.0	2.55	AL, NA	See Factory
30617	12 x 42	4.5" Threaded (BTRS)	42.8 / 1087	42.2 / 1072	19.1 / 72.0	2.55	AL, NA	See Factory
30646	12 x 48	2.5" Threaded	48.8 / 1240	48.4 / 1229	20.6 / 78.0	2.75	All	None
30666	12 x 52	2.5" Threaded	52.9 / 1344	52.4 / 1331	22.2 / 84.0	2.97	All	None
30669	12 x 52	4.0" Threaded	52.9 / 1344	52.4 / 1331	22.2 / 84.0	2.97	AL, BL, NA	See Factory
32127	12 x 52	4.5" Threaded (BTRS)	52.9 / 1344	52.4 / 1331	22.2 / 84.0	2.97	AL, NA	See Factory
30721	13 x 54	2.5" Threaded	54.6 / 1387	53.9 / 1369	27.5 / 104.0	3.68	All	None
30724	13 x 54	4.0" Threaded	54.6 / 1387	53.9 / 1369	27.5 / 104.0	3.68	AL, BL, NA	See Factory
31389	14 x 47	2.5" Threaded	46.5 / 1181	46.0 / 1168	27.5 / 104.0	3.68	AL, NA	See Factory
30745	14 x 47	4.0" Threaded	46.5 / 1181	46.0 / 1168	27.5 / 104.0	3.68	AL, NA	See Factory
32086	14 x 47	4.5" Threaded (BTRS)	46.5 / 1181	46.0 / 1168	27.5 / 104.0	3.68	AL, NA	See Factory
30783	14 x 65	2.5" Threaded	64.6 / 1641	64.3 / 1633	40.6 / 154.0	5.43	AL, BL, NA	See Factory
30785	14 x 65	4.0" Threaded	64.6 / 1641	64.3 / 1633	40.6 / 154.0	5.43	All	None
31627	16 x 65	2.5" Threaded	64.6 / 1641	64.3 / 1633	49.0 / 185.0	6.55	AL, BL, NA	See Factory
30912	16 x 65	4.0" Threaded	64.6 / 1641	64.3 / 1633	49.0 / 185.0	6.55	All	None

Color Options: AL - Almond BL - Blue BK - Black GR - Gray NA - Natural

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ITEM	1	IMAGEN
DENOMINACIÓN DE BIEN O SERVICIO	VALVULA	
DENOMINACIÓN TÉCNICA DEL BIEN O SERVICIO	Válvula de control (Manual 3 Posicione)s	
GRUPO/CLASE/FAMILIA A LA QUE PERTENECE EL PRODUCTO	40141609	
UNIDAD DE MEDIDA	UNIDAD	
CANTIDAD	4	
DESCRIPCIÓN GENERAL	1). Válvula manual de 3 posiciones Filtros para Resina Catódica Ø10" (62,00 litros, 50-70 psi); 2) Válvula manual de 3 posiciones Filtro para Floculador Ø10" (60,00 litros, 50 - 70 PSI), 3). Válvula manual de 3 posiciones Filtro para de Zeolita Ø10" (60,00 litros, 50- 70 PSI), 4). Válvula manual de 3 posiciones Filtros para Desodorizado de Carbón Activado Ø10" (60,0 litros, 50 – 70 psi). En PRFV (Polietileno reforzado con fibra de vidrio).	



Valvula manual de 3 posiciones para tanque de polyglass



Valvula manual multipuerto para sistemas de tratamiento de agua 3 posiciones entrada salida y retrolavado (Drenaje)

VALVULA MANUAL de 3 vías o Multivalvula para una sencilla operación manual diseñada para aplicaciones de entrada y salida y retrolavado

Referencia: F56A
Rosca en la base: 2.5 pulgadas macho
Entrada y salida: 1 pulgada
Drenaje: 1 pulgada
Medidas: 149 x 180 mm alto
Diámetro: 127 mm
Peso: 850 gramos

CONDICIONES DE USO
Temperatura del agua 5°C - 50°C
Presión: 0.15 Mpa - 0.5 Mpa
Calidad del agua - turbiedad: 20 FTU

MONTAJE: Para el sellado de los tanques de polyglass que son ideales para la instalación ablandadores y de filtros de agua residenciales y comerciales con medios filtrantes como:

FILTROS DE ARENA, FILTROS DE CARBÓN ACTIVADO
FILTROS MULTIMEDIO (ARENA, CARBÓN ACTIVADO, ANTRACITA), FILTRO BIRU PARA HIERRO

Incluye: Canastilla superior e inferior (Difusores)
Empaques: O ring de la base y 5 O ring de 1 pulgada

56A Manual Filter Valve

This manual is intended as a guide for the service and application of the valve only. This product should be installed by a plumbing professional. This unit is designed to be installed on microbiologically safe water supplies.

Warranty of this product extends to manufacturing defects. Misapplication of this product may result in failure to properly condition the water or damage to the product.

This valve complies with the China Standard for Hygienic Safety Evaluation of Equipment and Protective Materials in Drinking Water. This shows that the valve is compatible with drinking water.

Controller Mode: Manual

Working Condition: Suited Pressure: 15 - 90 psi

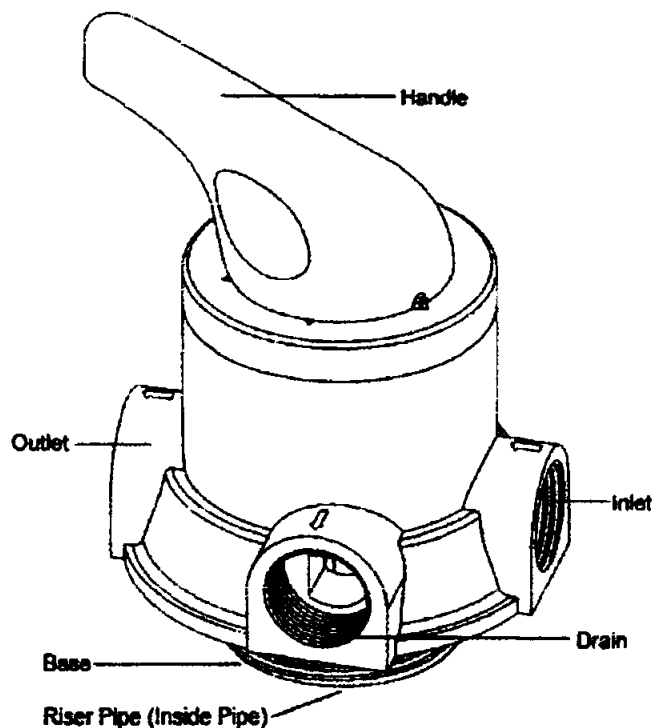
Suited Water Temperature: 34 - 110°F (2 - 43°C)

Name	Quantity
2 1/2" Base Seals	1
1" Washer	3

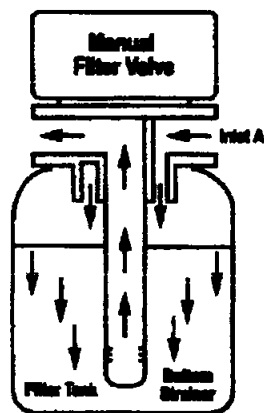
Inlet/Outlet	Drain	Base	Riser Pipe	Service Flow @ 15 psi drip	Brine Wash Flow @ 25 psi drop
1" F	1" F	2 1/2" - 8 NPSM	1.05" OD	14 gpm	18 gpm

Warning/Cautions:

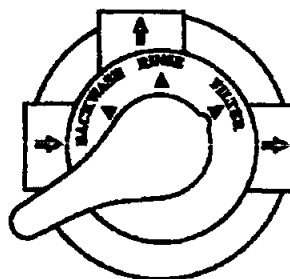
- The drain should not be hard plumbed into the sewer. Leave a small amount of space between them to avoid waste water being drawn back into the water treatment equipment.
- Do not carry the tank by the valve handle. This could cause injury or damage to the product.
- Only turn the handle within the range of the Backwash, Rinse, and Filter positions.
- Turn the handle to the triangle symbol underneath the Backwash, Rinse, or Filter positions as needed.



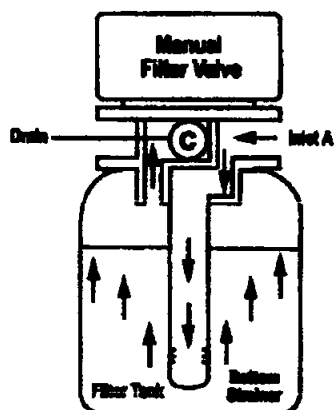
56A Manual Filter Valve



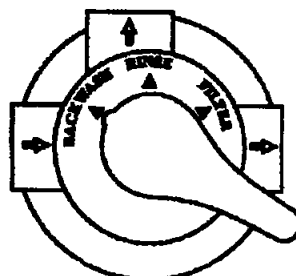
Filter Flow Diagram



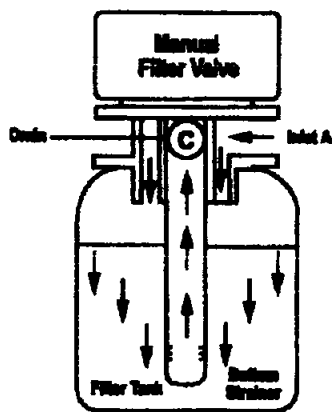
Filter Position



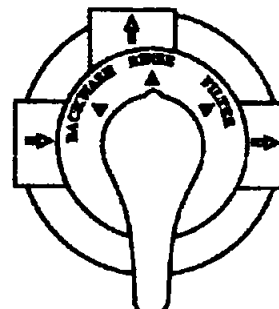
Backwash Flow Diagram



Backwash Position

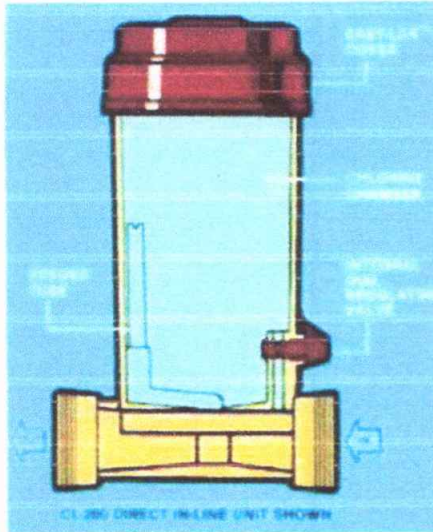


Rinse Flow Diagram



Rinse Position

THE CHLORINE MACHINES HAYWARD AUTOMATIC CHLORINE FEEDERS



The easy, economical and professional way to chlorinate your pool - automatically. Hayward's efficient, corrosion proof automatic feeders install easily on new or existing pools or spas and hold up to 9 lbs. of large or small Tri-Chlor slow dissolving tablets or sticks - enough to provide a three week supply of chlorine sanitizer for large pools and longer for smaller pools. The easy to use integral dial control valve lets you accurately adjust the rate of chlorination needed to keep your pool sparkling pure and inviting.

HAYWARD AUTOMATIC PRESSURE STYLE CHLORINE FEEDERS FEATURES:

EASY-LOK COVER ASSEMBLY has thread-assist mechanism to provide dependable sealing plus convenient access for adding tablets or sticks.

CHLORINE CHAMBER has extra large capacity. CL100ABG series feeders hold up to 4.2 lbs. of Tri-Chlor tabs, while the larger CL200 & CL220 series has a 9 lb. capacity to meet the requirements of all sizes and types of pools. Corrosion proof, versatile design accommodates large or small slow-dissolve tablets or sticks.

DIAL REGULATING VALVE is easy to use and lets you control and adjust the rate of feed for your pool's variable requirements and chlorine demand.

FEEDER TUBE provides controlled outlet flow of highly concentrated chlorinated water plus serves as an auto air relief to expel entrapped air from the chlorine chamber.

VERSATILITY for new or existing pools. Select either direct in-line or off-line unit to make installation easy for your pool or spa system.

Clack Birm® is a granular filter media commonly used for the reduction of iron and/or manganese from water supplies.

Birm®

ADVANTAGES

- Under the proper conditions, no chemicals to purchase for maintenance. Regeneration not required.
- Iron removal efficiency is extremely high.
- Negligible labor cost: only periodic backwashing required.
- Durable material with a long life and wide temperature range.
- Weighs only 35-40 lbs./cu. ft.

PHYSICAL PROPERTIES

- Color: Black
- Bulk Density: 35-40 lbs./cu. ft.
- Mesh Size: 10 x 40
- Specific Gravity: 2.0 gm/cc
- Effective Size: 0.48 mm
- Uniformity Coefficient: 2.7

CONDITIONS FOR OPERATION

- Alkalinity should be greater than two times the combined sulfate and chloride concentration.
- Maximum water temp: 100°F/38°C
- Water pH range: 6.8-9.0
- Dissolved Oxygen (D.O.) content must be equal to at least 15% of the iron (or iron and manganese) content.
- Bed depth: 30-36 in.
- Freeboard: 50% of bed depth (min.)
- Backwash rate: 10-12 gpm/sq. ft.
- Backwash Bed Expansion: 20-40% of bed depth (min.)
- Service flow rate: 3.5-5 gpm/sq. ft. intermittent flow rates and/or favorable local conditions may allow higher flow rates

INFLUENT AND BACKWASH LIMITATIONS

- Free chlorine concentration less than 0.5 ppm
- Hydrogen Sulfide should be removed prior to contact with Birm media
- Oil: None Present
- Polyphosphates: None present

Birm® is an efficient and economical media for the reduction of dissolved iron and manganese compounds from raw water supplies. It may be used in either gravity fed or pressurized water treatment systems. Birm acts as an insoluble catalyst to enhance the reaction between dissolved oxygen (D.O.) and the iron compounds. In ground waters the dissolved iron is usually in the ferrous bicarbonate state due to the excess of free carbon dioxide and is not filterable. Birm, acting as a catalyst between the oxygen and the soluble iron compounds, enhances the oxidation reaction of Fe^{++} to Fe^{+++} and produces ferric hydroxide which precipitates and may be easily filtered. The physical characteristics of Birm provide an excellent filter media which is easily cleaned by backwashing to remove the precipitant. Birm is not consumed in the iron removal operation and therefore offers a tremendous economic advantage over many other iron removal methods.

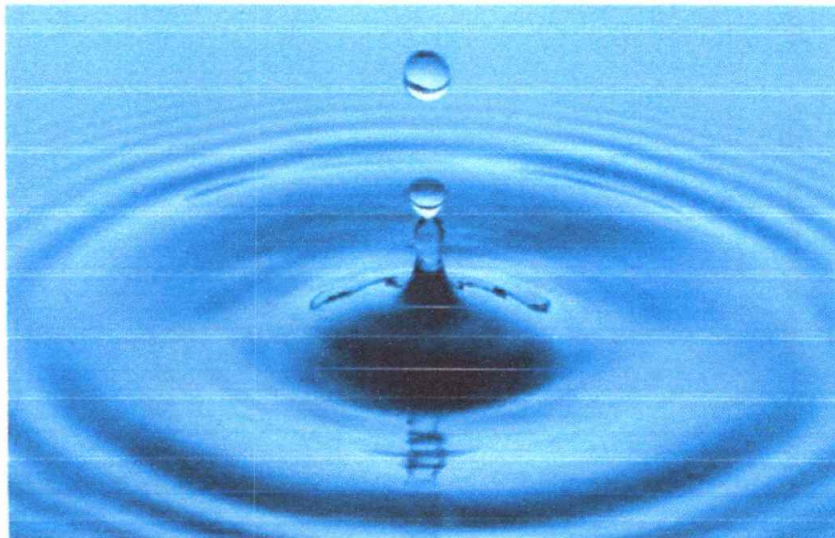
Other advantages of Birm include; long material life with relatively low attrition loss, a wide temperature performance range and extremely high removal efficiency. Negligible labor costs are involved because Birm does not require chemicals for regeneration, only periodic backwashing is required.

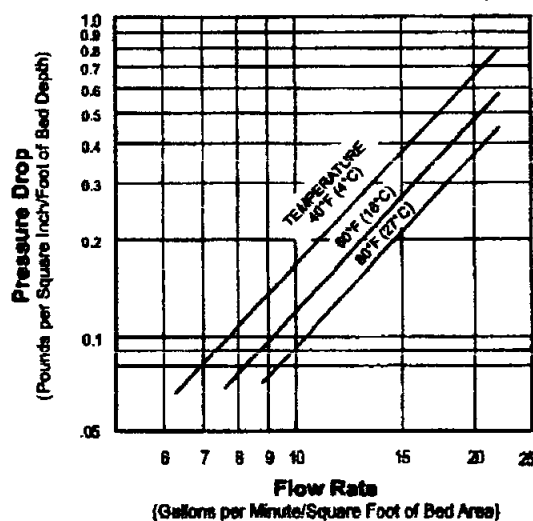
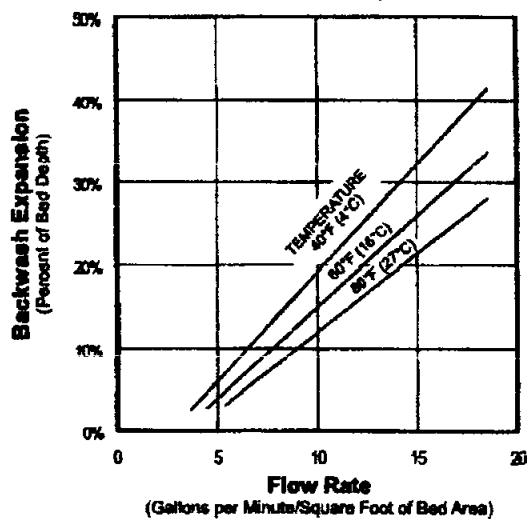
When using Birm for iron removal, it is necessary that the water contain no oil

or hydrogen sulfide, organic matter not to exceed 4-5 ppm, the D.O. content equal at least 15% of the iron content with a pH of 6.8 or more. If the influent water has a pH of less than 6.8, neutralizing additives such as Clack Corosex®, Calcite or soda ash may be used prior to the Birm filter to raise the pH. A water having a low D.O. level may be pretreated by aeration.

Additions of chemicals to influent or backwash water which contacts Birm media may inhibit iron or manganese removal or may break down or coat Birm media. Chlorination greatly reduces Birm's activity. High concentrations of chlorine compounds may deplete the catalytic coating. Polyphosphates are known to coat Birm and reduce Birm's ability to remove iron or manganese. Before adding any chemical to the influent or backwash water, the chemical's compatibility with Birm should be thoroughly tested.

Clack Birm may also be used for manganese reduction with the same dependability as iron removal. In these applications the water to be treated should have a pH of 8.0-9.0 for best results. If the water also contains iron, the pH should be below 8.5. High pH conditions may cause the formulation of colloidal iron which is very difficult to filter out. All other conditions remain the same for either manganese or iron removal.



Service Flow Pressure Drop**Backwash Bed Expansion**

Certified to NSF/ANSI Standard 61

ORDER INFORMATION

Part No.	Description	Cu. Ft./Bag	WL./Cu. Ft.*	Bags/Pallet	Weight/Pallet	Pallet Dimensions
A8006	Birm®	1	35-40 lbs.	40	1450-1650 lbs.	40" x 48" x 42"

*Weight per cubic foot is approximate.

Birm® is a federally registered trademark of Clack Corporation.

CALIFORNIA PROPOSITION 65 WARNING: This product contains crystalline silica which is known to the State of California to cause cancer and other substances which are known to the State of California to cause cancer, birth defects and reproductive harm.

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The filter medias listed in this brochure do not remove or kill bacteria. Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.

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