## **ORG SERIES**

# Automatic Self-Cleaning Water Saving Filters 1½" to 10"



### **CONSERVES RINSE WATER!**

Uses UP TO 90% Less Water than Conventional Self-Cleaning Filters

Low Cost • Reliable • Flexible • Simplistic Design

The ORG Series units from Orival Inc. are designed to provide efficient, reliable filtration while reducing the amount of backwash water required. Thanks to its efficient rinse system, the ORG uses approximately 90% less than conventional self-cleaning filters. This low consumption makes it the ideal unit for a wide variety of applications.

The filters are available in line sizes from  $1\frac{1}{2}$ " to 10" inlet and outlet to handle flow rates up to 1760 GPM for a single unit. The stainless steel fine screen is available in a variety of sizes to suit any application.

Orival manufactures a wide variety of filtration systems, from 10 GPM to 12,000 GPM, available in stainless steel, carbon steel & special construction.

#### **Applications**

- Cooling Water
- Drinking Water
- Intake Water
- Reclaim & Effluent Water
- Well Water
- · Waste Water
- Agricultural & Turf Irrigation
- · H.V.A.C. & Cooling Towers
- · Pump Seal Protection
- Fire Sprinkler
- I.E. & RO Protection
- Nozzle Protection
- Heat Exchanger Protection
- · Air Compressor Protection
- Rain Harvesting
- · Storm Water Reuse

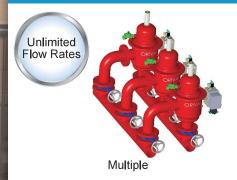
#### **Features**

- Organic & Inorganic Suspended Solids Removal
- Hydraulically Operated & Electronically Controlled
- Single or Multiple Filter Manifold Systems
- Stainless Steel & Powder Coated Carbon Steel or Custom Construction
- · Efficient Water Saving Design
- Low & High Pressure Operation
- Simplistic Design No Special Tools for Filter Element Removal
- Few Moving Parts Low Mechanical Maintenance

#### Screen Selection Guide

		Woven PVC Support	Sintered Multilayer	Wedgewire			
	een erns		9000000 1399334 939934 139934 139934				
	een tures	15-5000 Mic	1-5000 Mic	25-2500 Mic			
	en n Area	40%	60%	30%			
	raulic se D.P.	300 psi	300 psi	450 psi			
Temp	Rating	150°F	300°F	750°F			
Mat	erial	St/St 316L	St/St 316L	St/St 316L			
	ional erial	Super Duplex	κ, SMO 254, M	onel & Others			
	rous Iids	Poor	Poor	Excellent			

#### Installations





No Bypass Valve



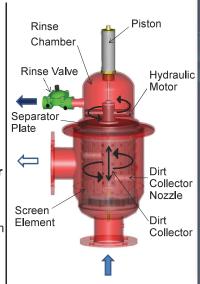
With Bypass Valve



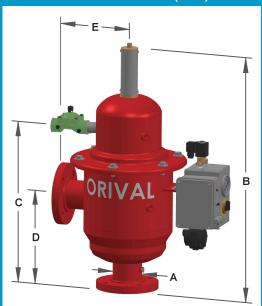
(201) 568-3311 Fax (201) 568-1916 www.orival.com filters@orival.com

#### How It Works

- Raw water enters the inlet of the filter to the inside of the Screen Element collecting suspended solids forming a filter cake.
- As the filter cake grows thicker it causes a pressure drop, when reaching a 7 psi differential the Rinse Controller (not shown) triggers a rinse cycle
- The Rinse Valve opens creating a vacuum force at the Dirt Collector Nozzles removing the filter cake.
- Water passing through the Dirt Collector to the Hydraulic Motor causes the entire assembly to rotate.
- As the Dirt Collector assembly rotates, the Piston strokes in an upward direction at the same time.
- The cleaning cycle lasts for 8 16 seconds without interruption of flow through the filter.



#### Filter Dimensions (inch)



Tec	hnica	Data	Add "-S " for Stainless Steel Construction )
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Model	Max Flow	Open Screen Area (in²)		Rinse Valve	Dry Weight	А	В	С	D	Е
Wiodel	(gpm)	Woven	Sintered	(inch)	(lbs)					
ORG/B-015-LE	65	64	96	1	53	1½ NPT	20.10	13.60	7.50	7.10
ORG/B-020-LE	110	64	96	1	55	2 NPT	20.10	13.60	7.50	7.10
ORG/B-030-LE	175	120	180	1	80	3	28.40	18.50	10.20	8.20
ORG/B-040-LS	350	120	180	1	92	4	28.40	18.50	10.20	8.20
ORG-040-LE	350	466	700	11/2	140	4	55.40	38.70	21.30	12.50
ORG-060-LS	660	466	700	11/2	145	6	55.40	38.70	21.30	12.50
ORG-060-LE	660	648	972	1½	167	6	63.20	46.70	27.40	12.50
ORG-060-LX	1320	810	1215	2	255	6	69.70	56.10	27.60	12.50
ORG-080-LS	1320	648	972	11/2	172	8	63.20	46.70	27.40	12.50
ORG-080-LE	1320	810	1215	2	265	8	69.70	56.10	27.60	12.50
ORG-100-LS	1760	648	972	11/2	211	10	63.20	46.70	27.40	30.70
ORG-100-LE	1760	810	1215	2	300	10	69.70	56.10	27.60	12.50

Specifications	Standard	Optional					
Inlet / Outlet Connections	Thread, Flanged, Victaulic	Any Standard					
Material of Construction	Carbon Steel or Stainless Steel	Super Duplex, SMO 254, Monel & Others					
Operating Pressure	30 psi (min); 150 psi (max)	12 psi (min); 1000 psi (max)					
Operating Temperature	No min.; 150° F max.	No min.; 212° F max.					
Rinse Valve	Hydraulic	Electric Ball Valve					
Control Power	110 / 220 Vac (0.5 A); 6 - 12 Vdc	Hydraulic					

Filtration Degrees																	
Visible to the naked eye.									<b>&gt;</b>								
Micron	5	10	15	25	30	40	50	80	100	120	150	200	400	800	1000	1500	3000
Mesh*	3000	1500	1000	600	500	400	250	200	150	120	100	80	40	20	16	10	5
inches*	.0002	.0004	.0006	.0010	.0012	.0016	.002	.003	.004	.005	.006	.008	.016	.032	.04	.06	.12
Physical Size																	
* Approximate and for reference only																	

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