

# HIGH TEMP BACK FLUSHABLE GAS OR LIQUID FINE PARTICULATE SIMPLEX/DUPLEX SYSTEM

**SERIES 371 & 372**  
**Back Flushable Fine Particulate Filter Systems utilizing the "RGFHT" Elements**  
**Patent Pending**



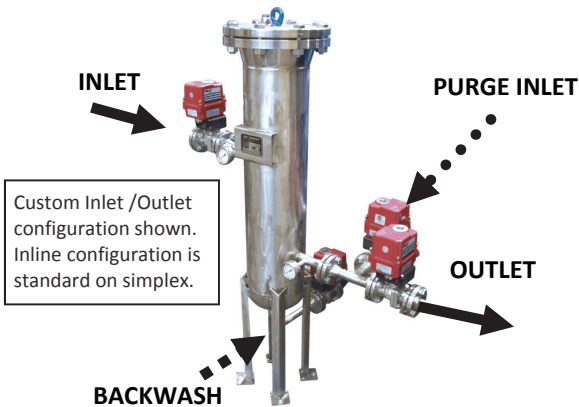
**APPLICATIONS**

- Gasification Systems (IGCC, BIOMASS, etc)
- Pyrolysis, Combustion, and Catalytic processes
- Municipal Solid Waste Incineration
- Hot Water Filtration

**DESIGN INFORMATION**

- Vessels of Carbon Steel , Stainless Steel, or other materials .
- Pressure ranges ANSI 150#, 300#, 600#, 900#, 1500# or 2500#
- Resilient Back-flushable Cleaning System utilizing; Air, Gas, Water
- Optional Control Panel (Cleaning initiated by Timer with DP Over-ride)
- Optional Manual Change-over valves (Automatic Valves shown)
- Safety Interlocks to reduce the opportunity of pressurizing an open vessel

**SERIES 371: SIMPLEX DESIGN**

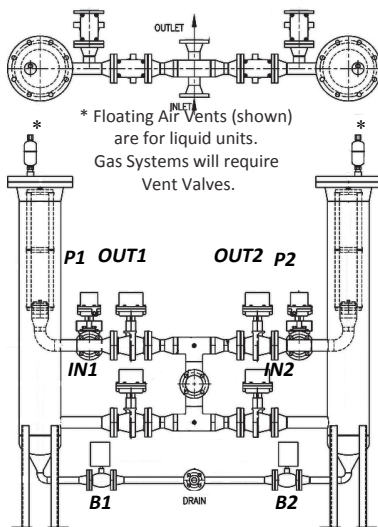


**STANDARD SIMPLEX VALVE ACTUATION SEQUENCE <sup>1)</sup>**

VALVE DESCRIPTION	STANDARD OPERATION	CLEANING CYCLE
INLET	<b>OPEN</b>	CLOSED
OUTLET	<b>OPEN</b>	CLOSED
BACKWASH / BLOWDOWN	<b>CLOSED</b>	OPEN
PURGE	<b>CLOSED</b>	OPEN

1) DEPENDANT ON MEDIA TYPE AND APPLICATION PARAMETERS. OTHER VALVES MAY BE NECESSARY. PLEASE CONSULT THE FACTORY FOR MORE DETAILED INFORMATION.

**SERIES 372: DUPLEX DESIGN**



**STANDARD DUPLEX VALVE ACTUATION SEQUENCE <sup>2)</sup>**

VALVE DESCRIPTION	STANDARD OPERATION (VESSEL 1 FILTERING)	CLEANING CYCLE (VESSEL 1 CLEANING)	POST CLEAN (PENDING SWITCH)
INLET (IN1)	<b>OPEN</b>	CLOSED	CLOSED
OUTLET (OUT1)	<b>OPEN</b>	CLOSED	CLOSED
BACKWASH / BLOWDOWN (B1)	<b>CLOSED</b>	OPEN	CLOSED
PURGE (P1)	<b>CLOSED</b>	OPEN	CLOSED
INLET (IN2)	<b>CLOSED</b>	OPEN	OPEN
OUTLET (OUT2)	<b>CLOSED</b>	OPEN	OPEN
BACKWASH / BLOWDOWN (B2)	<b>CLOSED</b>	CLOSED	CLOSED
PURGE (P2)	<b>CLOSED</b>	CLOSED	CLOSED

2) DEPENDANT ON MEDIA TYPE AND APPLICATION PARAMETERS. OTHER VALVES MAY BE NECESSARY. PLEASE CONSULT THE FACTORY FOR MORE DETAILED INFORMATION.

Notes: Vessel Material, Connections, Available Options, and Dimensions are customizable.. Option availability is subject to change without notice. Consult the TM Sales Department or your local sales representative for more information.