

ROTAVAL

Keeping the World's Industries Solidly in control



'Fast-Clean' Rotary Valves

Inlet sizes 125mm-300mm
Capacities up to 47m³/hour



'Fast-Clean' Rotary Valves

RotaVal 'Fast-Clean' Rotary Valves bring new standards of safety, ease of use and reliability to applications with high cleanliness needs. The range offers users increased productivity through minimal down-time and greater reliability as a result of simple, safe disassembly procedures.

The explosion-proof design ensures safe use with hazardous materials. Bottom-mounted sliding rails ensure accurate alignment of the rotor to housing when being removed or replaced. A rotor-support saddle eliminates the need for manual lifting or special equipment under primary cleaning operations, enabling users to meet safe handling legislation.

RotaVal 'Fast-Clean' Rotary Valves are particularly suited to any application requiring frequent cleaning of internal components, whether for cleanliness or hygienic purposes. They will be of particular interest to the Dairy, Food and Pharmaceutical industries.



Operator Safety

- Minimal effort required to remove and replace rotor
- Minimal handling
- Simple rotor-support saddle aids handling
- Electrical and mechanical safety switches including integral single interlock which interacts with both end covers

Safety in use

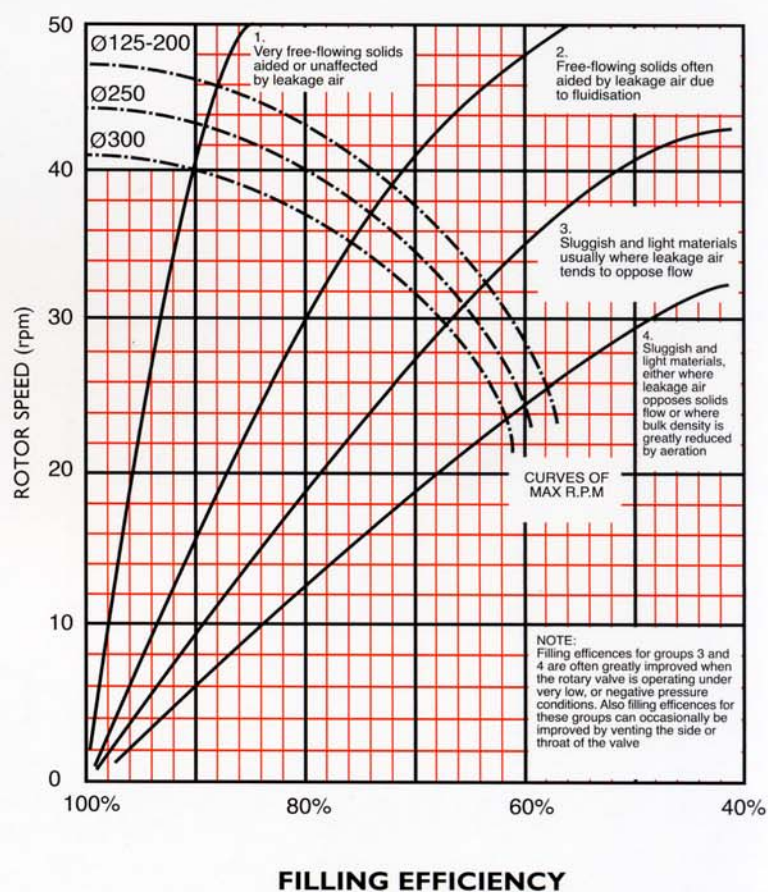
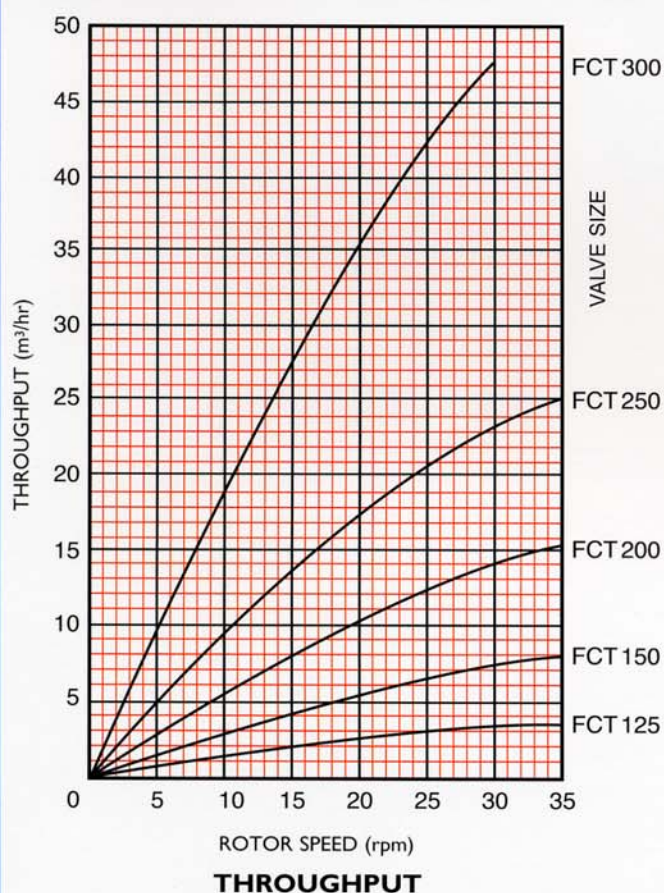
- Certified for explosion (10barg) & flame containment



Ease of use

- Reduced down-time for cleaning
- Factory-set running clearances (rotor to housing)
- No complex adjustments required by the operator
- Self-aligning rotor slides back into the housing without further adjustment
- Direct or indirect drive, no disturbance to the drive assembly necessary.
- Lower maintenance and higher reliability with direct drive option
- All surfaces can be cleaned effectively and efficiently sliding rails give greater flexibility by allowing both end covers to be removed thereby giving easier cleaning access
- Alternative hygienic constructions available suitable for use with biodegradable materials
- FDA-approved materials of construction
- Fully-machined internal surfaces
- Range of internal and external polished finishes available

Versatile access for cleaning



The throughput graph is for guidance only: it is based on moderately free-flowing products and assumes that leakage air does not oppose flow. A more accurate assessment can be calculated using the formula below and by referring to the filling efficiency graph.

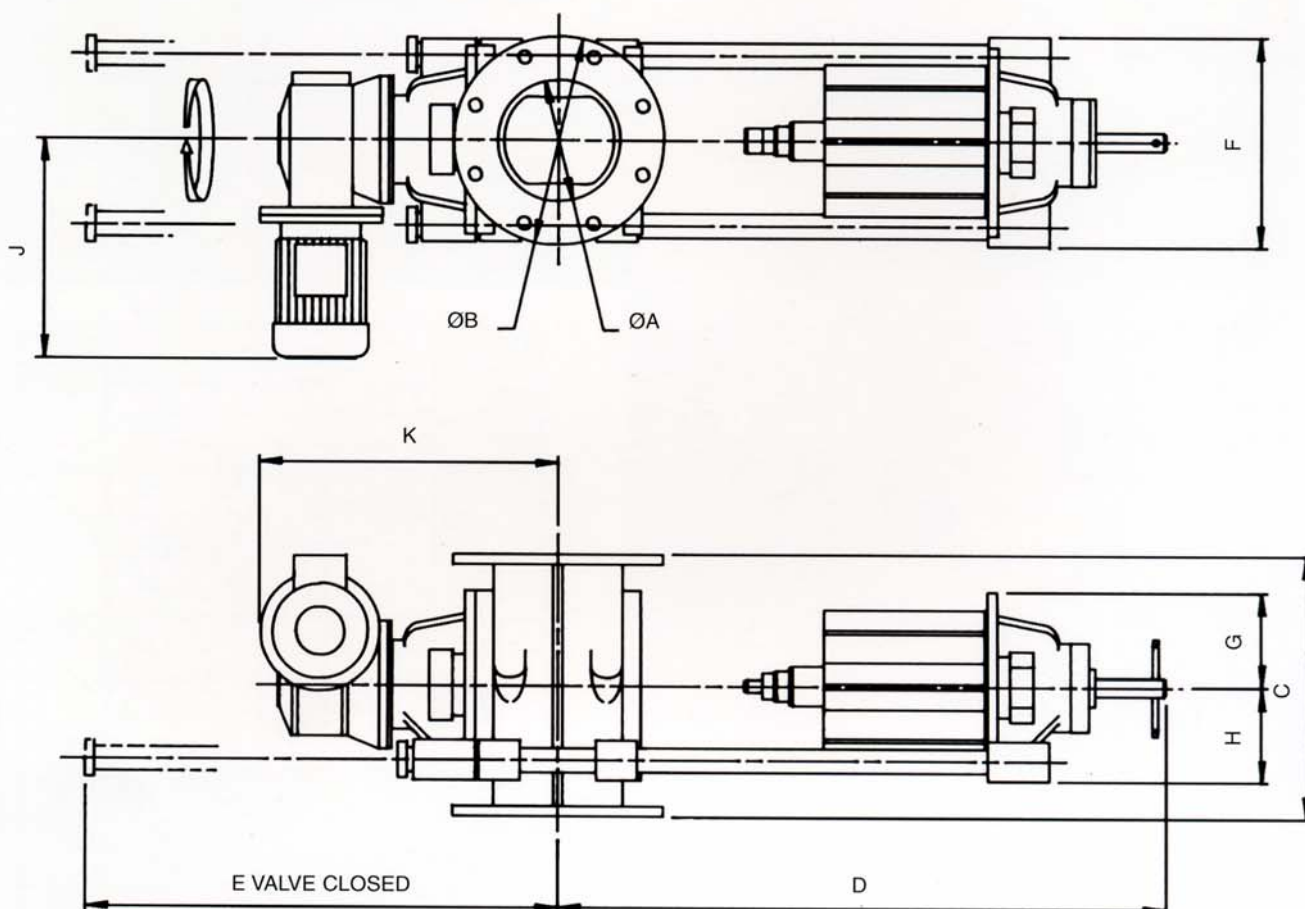
$$\text{Valve speed (rpm)} = \frac{\text{throughput (kg/hr)}}{\text{Bulk density of product (kg/m}^3\text{) } \times \text{ capacity (see Table) } \times \text{ filling efficiency}}$$

Valve size	FCT125	FCT150	FCT200	FCT250	FCT300
Capacity (m³/hr/rpm)	0.14	0.32	0.63	1.04	2.13

The assessment of filling efficiencies is a matter of judgement; our technical staff will be pleased to assist if required

Key Features

- Safe and easy cleaning of internal components and surfaces
- Construction features available to meet stringent hygiene requirements
- Range of rotor shaft seals available
- USDA (FDA-approved) materials of construction
- Explosion-proof and flame-containment design
- Close operating clearances for optimum efficiency
- Rotor and End Covers removable separately
- Direct (standard) or indirect drive systems



	A	B	C	D	E	F	G	H	J	K
FCT125	125	254	310	802	660	252	100	100	315	380
FCT150	150	280	360	860	700	304	125	125	352	425
FCT200	200	343	430	1170	1000	350	155	155	360	490
FCT250	250	406	490	1150	982	400	180	180	406	540
FCT300	300	483	600	1245	1050	464	200	200	459	596

This information is for guidance only- **USE ONLY CERTIFIED DRAWINGS FOR PLANNING-IN**

These valves must not be considered as load-bearing without prior consultation.

ROTAVAL

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