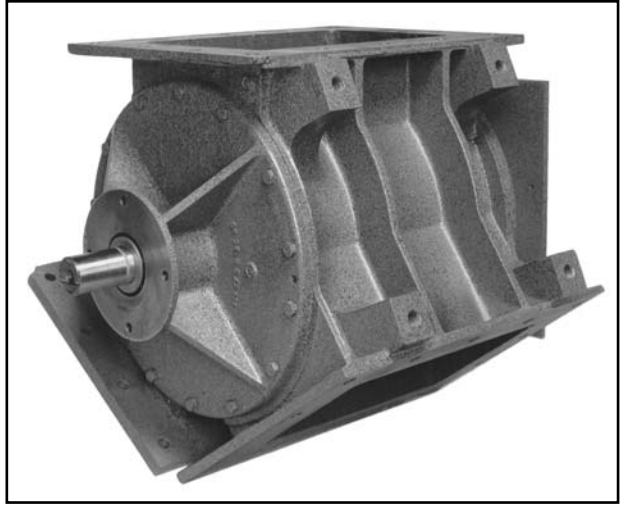


TWO-WAY GRAVITY DIVERTER GATE

APPLICATION:

The FLSmidth gravity diverter gate provides leak-resistant diversion of bulk materials to either of two delivery points. It has a center rotating vane assembly machined for a close fit to the cast housing, and is used primarily where leakage must be minimized.



SPECIFICATION:

General

The diverter gate offers high operating efficiency and long life. Body, end plates, and gate are rugged castings, fully ribbed to ensure dimensional stability. The body and diverter gate are machined to close tolerances to prevent leakage and ensure smooth operation. Bearings are of the non-lubricating type. Lip-type shaft seals provide gas-tight performance.

Materials of construction

This product is available in either Class 50 cast iron, 319 aluminum, or 304 stainless steel. Bearings are Oilite® bronze, and lip seals are nitrile. Other seal materials are available.

Temperature limitation Standard gates are suitable for material temperature up to 225° F (107°C). Special seals accommodate higher operating temperatures.

Operation

Manual

Hand-operated gates include a manual operating lever with locking pin.

Air operated

The air-operated diverter gate includes an actuator and an air control valve with two separate speed controls. The operator is factory lubricated and sealed, requiring no further lubrication under normal operating conditions. The air operator is direct connected with totally enclosed rack and pinion. The air control valve has manual override capability. The actuator and control valve is furnished complete with all interconnecting piping. The control voltage for the solenoids is 120 V 60Hz. 50 to 80 PSIG (3.5 to 5.6 Kg/cm²) clean plant air is required.

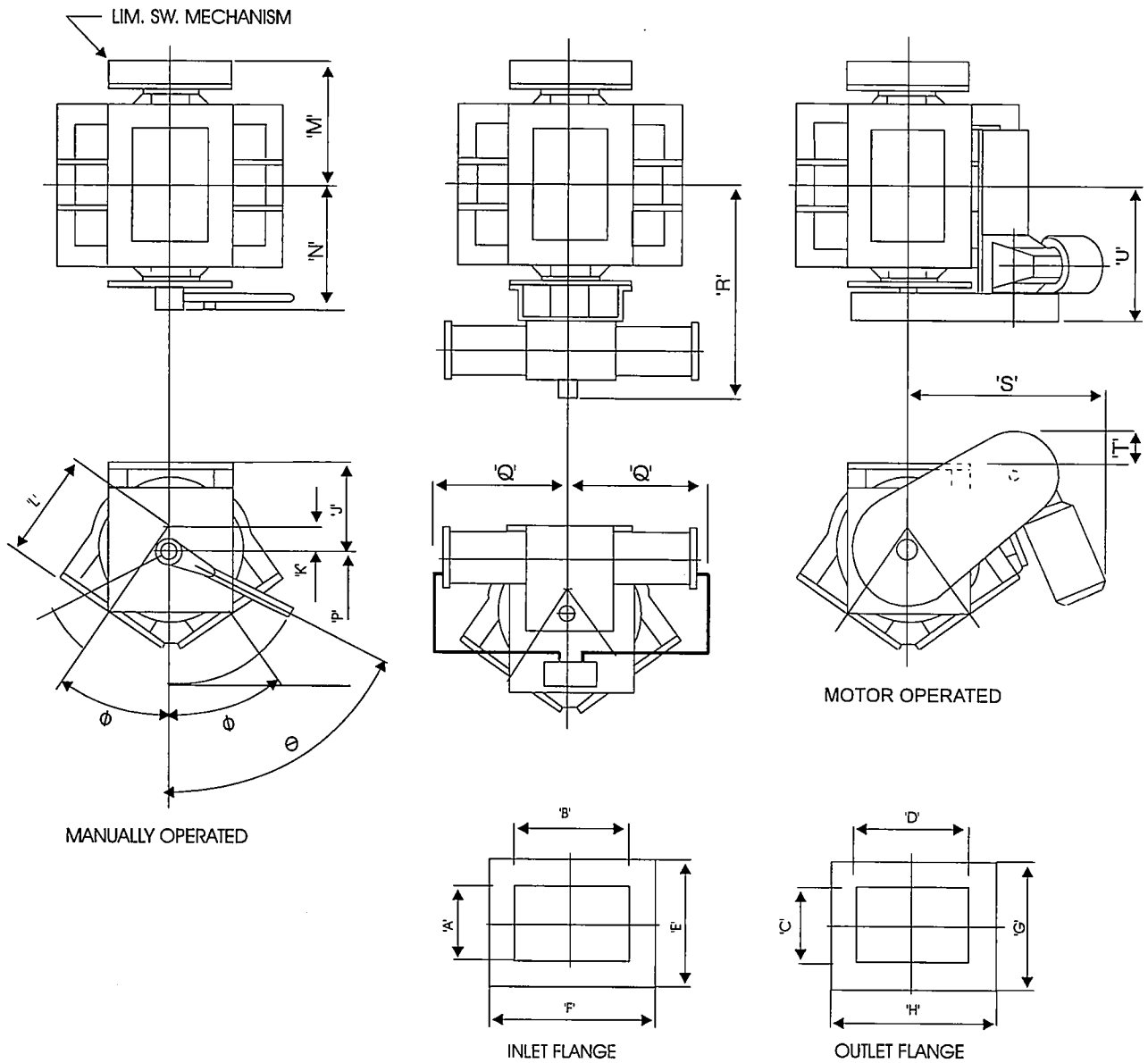
Motor operated

Electric-motor-operated gates are of a chain and sprocket design. They are furnished with a 1/4 hp right-angle TENV gearmotor with uni-brake. 230/460-volt, 3-phase, 60 Hz. operation is standard.

Special Order Options

- a. All gates are furnished with two limit switches for direction control and position indication. These switches can be provided in NEMA 4, 7 and 9.
- b. Explosion-proof motor and uni-brake, and solenoid valves can be provided.
- c. Guards are available for all models and modes of operation.

TWO-WAY GRAVITY DIVERTER GATE



SIZE	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U	\ominus	ϕ
5 x 5	5	5	5	5	9 1/8	9 1/8	9 1/8	9 1/8	5 11/16	3	9 1/2	13 3/16	9 1/2	14	11 9/16	19 3/16	20 1/4	3/4	10	63°	30°
5 x 10	5	10	5	10	9 1/8	14 1/8	9 1/8	14 1/8	5 11/16	3	9 1/2	12 3/16	12	14	11 9/16	21 11/16	20 1/4	3/4	12 1/2	63°	30°
8 x 12	8	12	8	12	13	17	13	17	9	2 7/16	11	13	13	18	12	24 3/16	22	3 1/2	14	63°	35°
10 x 16	16	16	10	16	21	21	15	21	11	3 5/16	15 1/4	18 1/8	18 1/8	18	12 3/4	29 1/2	22 3/8	6	19	62°	30°