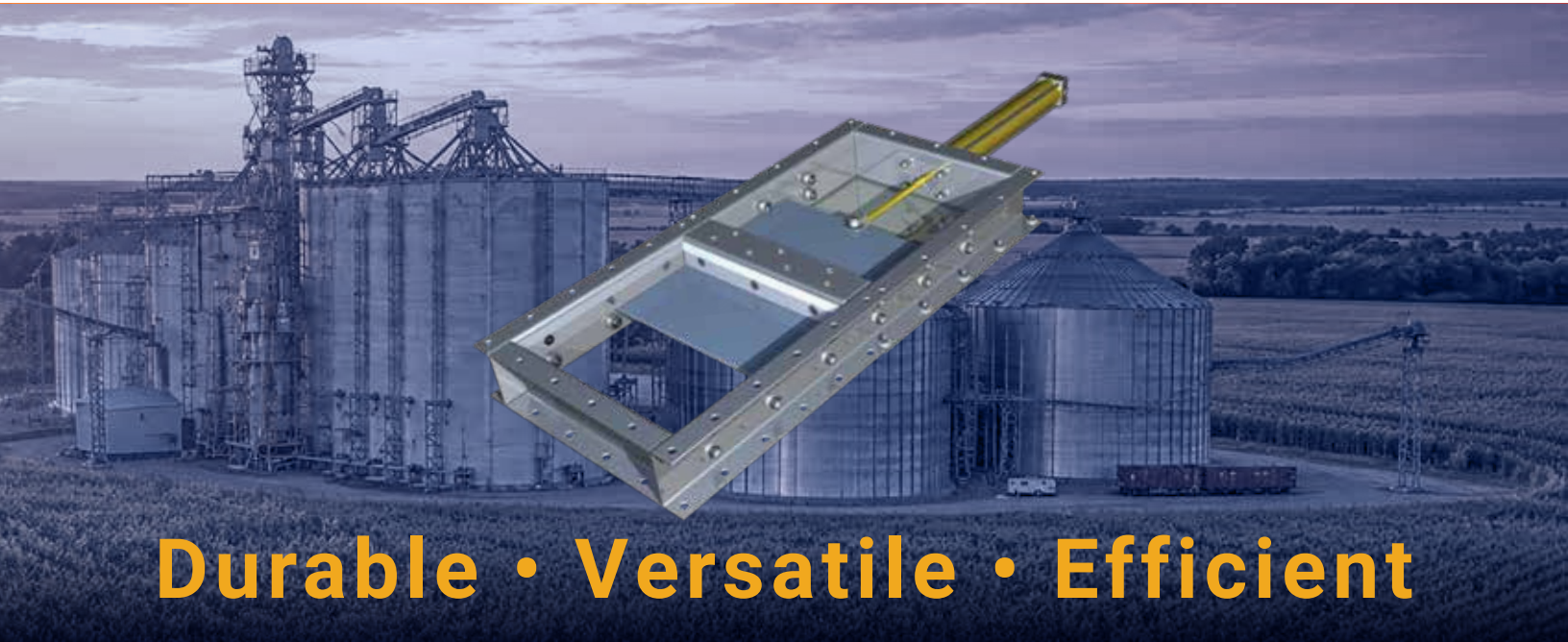




Conveying Solutions

Pneumatic Slide Gates



Durable • Versatile • Efficient



Cost Effective

Robust design for long service life



CEMA Standard

Fits all CEMA inlet/discharge configurations



Readily Available

Quick shipment to exceed customer requirements

KWS Pneumatic Slide Gates

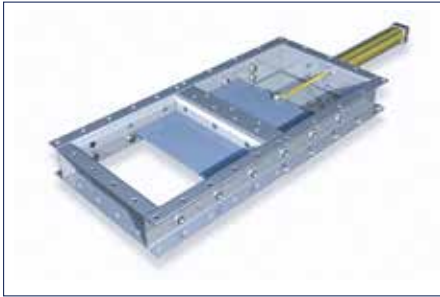
KWS pneumatic slide gates are used in a wide variety of bulk material handling applications. Slide gates can be installed on the bottom of screw conveyors at intermediate discharge locations to divert flow to another location, below silos to stop flow to downstream equipment, or as emergency shut-off gates to stop material surges.

Pneumatic cylinders actuate the slide plate open and closed. Typically, plant air pressure of approximately 80-psig is all that is required for power. The slide plate is supported by bronze-bushed rollers on the bottom and ½-inch thick UHMW slide plate retainers on the top. The rollers require no grease and provide years of maintenance free service. Replacement parts are low cost, in stock, and available for overnight delivery.

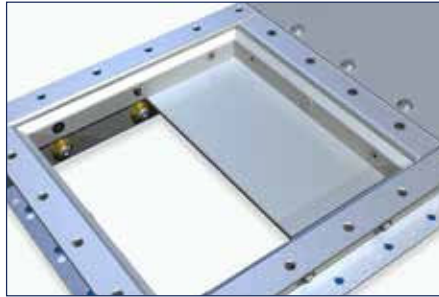


From initial site visit to final commissioning, KWS provides **solutions** that **improve reliability, reduce downtime, and maximize performance.**

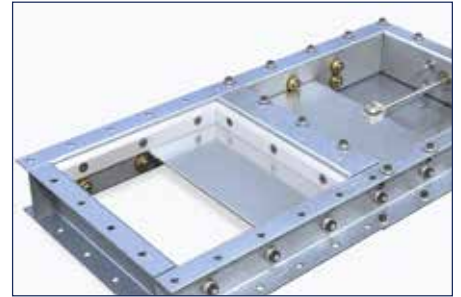
Pneumatic Slide Gates



All Welded Construction



Heavy Duty Slide Plate



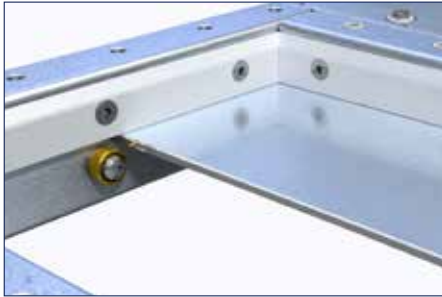
Low Friction Rollers

Features

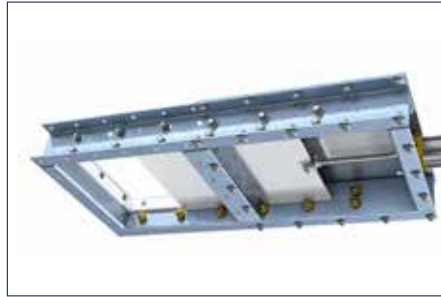
- **All Welded Construction** – Slide gate frames are one weldment to provide maximum rigidity for heavy industrial applications.
- **Heavy Duty Slide Plate** – Slide plates are made to withstand bulk material head load. The pneumatic cylinder is directly attached to the slide plate for a compact and economical design.
- **Low Friction Rollers** – Stainless steel rollers with graphite-impregnated bronze bushings provide smooth operation. Rollers are totally maintenance-free and self-lubricating.
- **UHMW Retainers** – ½-inch thick UHMW slide plate retainers are held in place with countersunk bolts and are beveled to divert product flow through and protect the rollers below.

Benefits

- **Long Service Life** – Built to withstand demanding industrial applications and eliminate the need for premature replacement.
- **Compact Design** – Designed to fit in almost any space with minimal overall height. Modular design allows for the integration of solenoids, filter/regulators, and position switches
- **Reduced Maintenance** – Self-lubricating rollers and UHMW retainers provide smooth, reliable operation with less routine maintenance and downtime.
- **Versatile and Rugged** – Designed for multiple applications to improve process flow and simplify plant layout.



UHMW Retainers



Compact Design



Versatile and Rugged

Design Standards

KWS pneumatic slide gates operate most effectively when supplied with 80 psi of clean and dry air. Minimum open and closing force is shown in the table below.

KWS also designs electrically and hydraulically actuated slide gates when a higher open and closing force is required. Applications for silo discharge slide gates can be engineered to meet your specific application. Please contact the KWS sales and engineering staff with any of your unique slide gate applications today.

Pneumatic Slide Gate Standard Construction

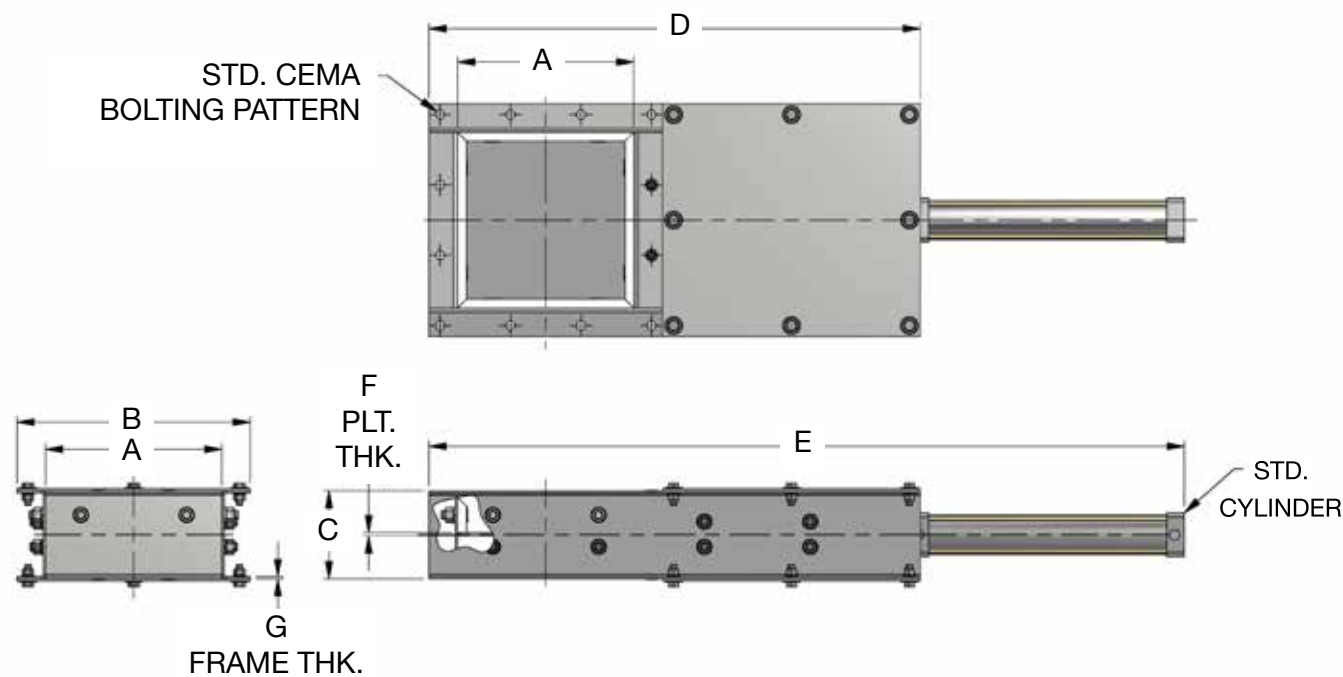
Gate Size	Inside Square Dims	Body Thickness	Blade Thickness	Cylinder Bore	Actuation Force
6"	7"	10 GA	3/16"	2"	230 lb
9"	10"	10 GA	3/16"	2"	230 lb
12"	13"	3/16"	1/4"	2"	230 lb
14"	15"	3/16"	1/4"	2"	230 lb
16"	17"	3/16"	3/8"	2 ½"	370 lb
18"	19"	3/16"	3/8"	2 ½"	370 lb
20"	21"	3/16"	3/8"	2 ½"	370 lb
24"	25"	3/16"	3/8"	2 ½"	370 lb
30"	31"	1/4"	3/8"	4"	950 lb
36"	37"	1/4"	1/2"	4"	950 lb

Open/close force is calculated using 80-PSIG air pressure.

Conveying Solutions

Pneumatic Slide Gates

Dimensional Standards



Dimension Chart (IN)

Conveyor Diameter	Part Number	A	B	C	D	E	F	G
6	PG610F	7"	10"	5"	1'-9"	2'-9"	3/16"	10 GA.
9	PG910F	10"	1'-1 1/4"	5"	2'-4"	3'-7"	3/16"	10 GA.
12	PG12316F	13"	1'-5 1/4"	5"	2'-11"	4'-3"	1/4"	3/16"
14	PG14316F	15"	1'-7 1/4"	5"	3'-3"	4'-10"	1/4"	3/16"
16	PG16316F	17"	1'-9 1/4"	5"	3'-7"	5'-4"	3/8"	3/16"
18	PG18316F	19"	2'-0 1/4"	5"	4'-0"	5'-10"	3/8"	3/16"
20	PG20316F	21"	2'-2 1/4"	5"	4'-4"	6'-6"	3/8"	3/16"
24	PG24316F	25"	2'-6 1/4"	5"	5'-0"	7'-4"	3/8"	3/16"
30	PG30250F	31"	3'-1 1/4"	6"	6'-2"	9'-0"	3/8"	1/4"
36	PG36250F	37"	3'-7 1/4"	6"	7'-2"	10'-8"	1/2"	1/4"



Planning a retrofit, replacement conveyor, or plant expansion?
Schedule a KWS Consultation Today.



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Conveying Solutions



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