ZeroE
XOMOX®



COMPREHENSIVE PORTFOLIO
TA-Luft 2021 CERTIFIED
LEADING THE WAY IN FUGITIVE EMISSIONS COMPLIANCE

XOMOX® BELLOWS SEALED SLEEVED PLUG VALVES

SERIES ZeroE™

ZeroE™ is the first and only bellows sealed sleeved plug valve technology available on the market that delivers true zero stem emissions for critical toxic media applications while simplifying automation and reducing lifecycle costs.

ZERO STEM EMISSIONS

XOMOX® newly patented bellows technology provides true zero stem emissions for toxic, volatile and harmful media, engineered for RELIABLE PERFORMANCE BEYOND 10,000 CYCLES.

UP TO 80% LOWER AUTOMATION COST

ZeroE™ leverages standard Sleeved Plug Valve torque requirements, allowing the utilization of compact 90° rotary actuators, significantly REDUCING ACTUATOR SIZE, COST AND COMPLEXITY.

UP TO 3X MORE FLOW

New base valve technology increases flow rates in comparison to conventional Bellows Sealed Globe Valves, eliminating existing bottlenecks or enabling new installations to be designed ONE NOMINAL VALVE SIZE SMALLER.

CRANE

www.cranecpe.com

XOMOX® Bellows Sealed Sleeved Plug Valves Design Features

INDEPENDENT PLUG ADJUSTMENT. PROTECTED PACKING. Prevents premature packing wear, keeping the packing as a true emergency sealing.

SPRING-LOADED PACKING. INDEPENDENT EMISSION PROTECTION. Packing independently meets TA-Luft 2021 and ISO 15848:2017, AH CO3 SSA0.

BELLOWS MONITORING. GREATER PROCESS VISIBILITY. An optional digital or analog pressure sensor enables remote monitoring of bellow condition from the control room.

HERMETIC BELLOWS BARRIER. ZERO STEM EMISSIONS. The bellow forms a fully sealed hermetic barrier, preventing process media from escaping to the atmosphere.

360° SLEEVE. BUBBLE-TIGHT SHUTOFF. The sleeve provides the necessary soft sealing element around the plug for reliable, bubble-tight shutoff.

STANDARDIZED ACTUATION. FEWER ACTUATOR VARIANTS. ZeroE™ shares the torque requirements of other SPVs, enabling reuse of existing actuators on ISO 5211 mounting.

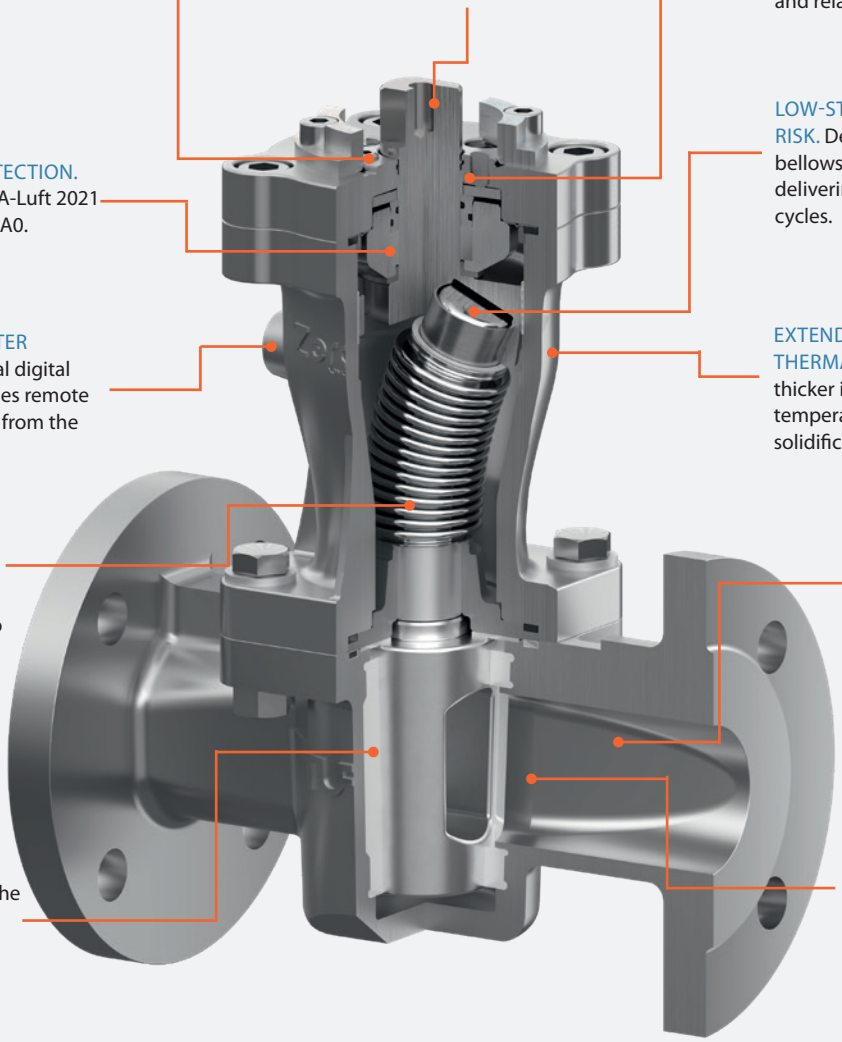
EXTERNAL INGRESS PROTECTION. LESS CORROSION RISK. Viton® rings prevent ingress into the packing chamber, reducing corrosion risk, particularly in Cl_2 and related services.

LOW-STRESS BELLOWS DESIGN. NO RISK. Decoupled shaft and patented bellows mechanism minimize stress while delivering 10,000 guaranteed operating cycles.

EXTENDED BONNET. BETTER THERMAL CONTROL. Accommodates thicker insulation to maintain process temperature and prevent premature solidification of polymerizing media.

UP TO 3× MORE FLOW. SMALLER PIPEWORK. The straight flow path helps to relieve bottlenecks or enables pipelines one nominal size smaller.

90° ACTUATION. LOWER COST AND LESS SPACE. Differential pressure independent operation and 90° actuation enable smaller and more economical actuator solutions.



Standard	Pressure Class	DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300
		Inch	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"	10"	12"
DIN	PN 10		•	•	•	•	•	•	•	•	•	•	•	-	-	-
	PN 16		•	•	•	•	•	•	•	•	•	•	•	-	-	-
	PN 25		•	•	•	•	•	•	•	•	•	•	•	-	-	-
	PN 40		•	•	•	•	•	•	•	•	•	•	•	-	-	-
ANSI	Class 150		•	•	•	•	•	•	•	•	•	•	•	-	-	-
	Class 300		•	•	•	•	•	•	•	•	•	•	•	-	-	-

ZeroE™ will be available in face to face dimensions of Sleeve Plug Valve, Ball Valves, and Bellows Sealed Globe Valves, as per ASME B16.10 and EN 558

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