

VIGIFLAP



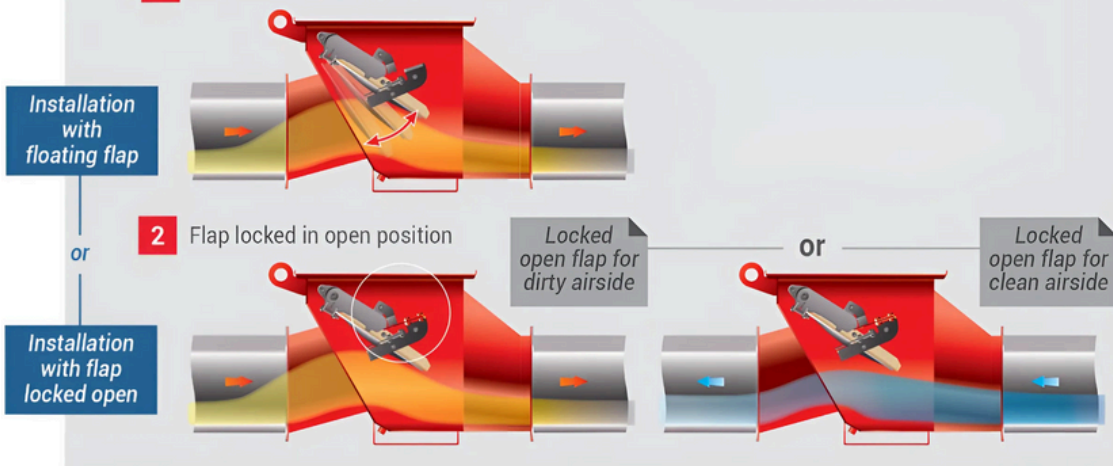
VIGIFLAP

The VIGIFLAP is a non-return valve crafted to thwart overpressure or flame transmission from a downstream explosion (e.g., dust collectors, filters, cyclones) within the piping system. Operated by a lever arm, it can be employed at both the inlet and outlet of the filter, effectively isolating the filter from any explosion or overpressure event. During an explosion, the valve automatically shuts and securely locks, impeding flame propagation. The flap can be manually unlocked for maintenance purposes.

PROCESS FLOW

FLOW POSITIONS :

- 1 Flap is held open by process flow



EXAMPLE DURING AN EXPLOSION EVENT

Explosion isolation is achieved by flap closure independent of being in free floating or locked open position



Manual locking mechanism reset is required

Kst max	≤250 bar.m/s	Pred max*	≤0,5 bar	Air flow speed	Clean air side: ≤30 m/s Dirty air side: ≤45 m/s	
Kst min	No limit	VIGIFLAP Resistance	2 bar	Working		
Pmax	10 bar 145 psi	Marque ATEX		Air flow range		
MIE	≥10mj	Atex inside	Zone 20(II 1D)	Working pressure		
MIT	≥400°C ≥752°F	Dust**	All dusts kinds	Working vacuum		
MESG	1,7mm 0,067inch	Dust concentration	No limit	Elbow quantity	No limit	
	DN (mm)	DN (inch)	Vessel Volume	Min Mouting Distance	Min Mouting Distance	Max Mouting Distance
VIGIFLAP ø	160	6"	0,70m³	4,0m	6,0m	17m
VIGIFLAP ø	160	6"	1,35m³	3,0m	5,0m	17m
VIGIFLAP ø	180	7"	0,70m³	4,0m	6,0m	17m
VIGIFLAP ø	180	7"	1,35m³	3,0m	5,0m	17m
VIGIFLAP ø	200	8"	1,35m³	4,6m	6,6m	17m
VIGIFLAP ø	250	10"	1,35m³	4,0m	6,0m	17m
VIGIFLAP ø	300	12"	2,90m³	4,6m	6,6m	17m
VIGIFLAP ø	350	14"	2,90m³	4,2m	6,2m	17m
VIGIFLAP ø	400	16"	4,50m³	5,2m	7,2m	17m
VIGIFLAP ø	450	18"	4,50m³	4,7m	6,7m	17m
VIGIFLAP ø	500	20"	6,05m³	5,8m	7,8m	17m
VIGIFLAP ø	550	22"	6,05m³	5,5m	7,5m	17m
VIGIFLAP ø	600	24"	7,65m³	7,2m	9,2m	17m
VIGIFLAP ø	650	26"	7,65m³	6,7m	8,7m	17m
VIGIFLAP ø	700	28"	7,65m³	6,4m	8,4m	17m
VIGIFLAP ø	750	30"	10,00m³	7,3m	9,3m	17m
VIGIFLAP ø	800	32"	10,00m³	6,9m	8,9m	17m