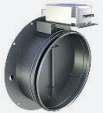
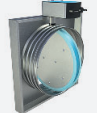


Fire Dampers

CE	Circular							Rectangular					Fire Valve
	Halton Exe Light Circular (ELC)	Halton FDI	Halton Exe Competent Circular (ECC)	Halton Exe Durable Circular (EDC)	Halton Exe Sturdy Circular (ESC)	Halton Exe Tough Circular (ETC)	Halton Exe Fold Circular (EFC) **	Halton FDS	Halton Exe Light Rectangular (ELR)	Halton FDT	Halton Exe Sturdy Rectangular (ESR)	Halton Exe Tough Rectangular (ETR)	Halton FDV
													
Size	100 - 500	100 - 630	100 - 400	100 - 200	160 - 630	800 - 1000	100 - 200	200x200 - 1500x800	200x200 - 1000x1000	200x200 - 2100x1000	200x200 - 1000x500	800x700 - 1500x800	100 - 200
Fire Resistance Classification	Classification standard EN 13501-3 Product standard EN 15650 Fire test standard EN 1366-2	E 120 (v _e h _o i<->o) S	EI 60 (v _e h _o i<->o) S	EI 60 (v _e h _o i<->o) S	EI 120 (v _e h _o i<->o) S	EI 120 (v _e h _o i<->o) S	EI 120 (v _e h _o i<->o) S EI 60 (v _e h _o i<->o) S	E 90 (v _e i<->o) E 60 (v _e h _o i<->o) S	E 120 (v _e h _o i<->o) S	EI 60 (v _e h _o i<->o) S	EI 120 (v _e h _o i<->o) S	EI 120 (v _e h _o i<->o) S	E 120 (v _e h _o i<->o) S
Installation Method *)													
Wall (v _w) - concrete, masonry or lightweight construction	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Ceiling/floor (h _c) - concrete or masonry	✓	✓	✓	✓	✓	✓	90 min. *)	✓	✓	✓	✓	✓	✓
Away from the wall (v _w) - concrete, masonry or lightweight construction	✓	-	-	45 min. *)	90 min. *)	90 min. *)	-	-	✓	-	90 min. *)	90 min. *)	-
Away from the ceiling/floor (h _c) - concrete or masonry	✓	-	-	90 min. *)	90 min. *)	90 min. *)	-	-	✓	-	90 min. *)	90 min. *)	-
Actuators (spring return)													
Belimo 24V or 230V (open/close)	-	-	✓	✓	✓	✓	-	-	-	✓	✓	✓	-
Siemens 24V or 230V (open/close)	✓	✓	-	-	-	-	-	-	✓	-	-	-	-
Siemens 24V (modulating, 0-10V)	✓	-	-	-	-	-	-	-	✓	-	-	-	-
Mechanical spring release (failsafe)	✓	✓	-	✓	✓	✓	✓	✓	-	✓	✓	✓	✓
Accessories													
Limit switch for mechanical spring release	✓	✓	-	✓	✓	✓	✓	✓	-	✓	✓	✓	-
Material Options													
Galvanised steel	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Stainless steel (AISI 316L)	✓	-	✓	✓	✓	✓	-	-	✓	-	✓	✓	-

Smoke Control Dampers

CE	Circular		Rectangular			
	Halton Sec Fit Circular (SFC)	Halton Sec Stable Circular (SSC)	Halton Sec Compact Rectangular (SCS)	Halton Sec Fit Rectangular (SFR)	Halton Sec Stable Rectangular (SSR)	Halton Sec Mighty Rectangular (SMR)
						
Size	100 - 630	200 - 630	200x200 - 1250x1000	200x200 - 1600x1000	200x200 - 1500x800	200x200 - 1600x1000
Fire Resistance Classification	Classification standard EN 13501-4 Product standard EN 12101-8 Fire test standard EN 1366-10	E ₆₀₀ 120 (v _{ed} i<->o) S 1500C ₁₀₀₀₀ MAsingle	EI 120 (v _{ew} h _{ow} i<->o) S 1500C ₁₀₀₀₀ AAmulti	E ₆₀₀ 120 (v _{ew} - h _{odw} - i<->o) S 1500C ₁₀₀₀₀ AAsingle E ₆₀₀ 120 (v _{ew} - h _{odw} - i<->o) S 1500C ₁₀₀₀₀ MAsingle	E ₆₀₀ 90 (v _{ed} i<->o) S 1000C ₃₀₀ AAsingle	EI 120 (v _{ed} v _{ew} h _{od} h _{ow} - i<->o) S 1000C ₁₀₀₀₀ C _{mod} AA or MAmulti EI 90 (v _{ew} h _{ow} - i<->o) S 1500C ₁₀₀₀₀ C _{mod} AAmulti
Installation Method *)						
Horizontal duct (V _d) - concrete, masonry or lightweight wall construction	✓	✓	✓	✓	✓	✓
Vertical duct (H _d) - concrete ceiling/floor	-	✓	✓	-	✓	✓
Compartment Applications						
Single compartment	✓	-	✓	✓	-	-
Multi compartment	-	✓	-	-	✓	✓
Activation System						
Automatically activated (AA)	-	✓	✓	✓	✓	✓
Manually activated (MA)	✓	-	✓	-	-	✓
Actuators (without spring return or fuse)						
Belimo 24V or 230V (open/close)	✓	✓	✓	✓	✓	✓
Schischek InMax (only for big sizes)	-	-	-	✓	-	✓
Material Options						
Galvanised steel	✓	✓	✓	✓	✓	-
Stainless steel (AISI 316L)	-	✓	✓	-	✓	-

Management systems for fire dampers

Halton Safe Management (HSM)	
	
Fire dampers, max.	200 pcs
Smoke detectors, max	200 pcs
User interface	Touch panel or Internet 3G

*) Check details from Installation Guide

**) Note! Own models for different fire classes.