

HITACHI

FlowLogic™

Flow Pressure Controllers

150-5500 cfm



Hitachi Global Air Power

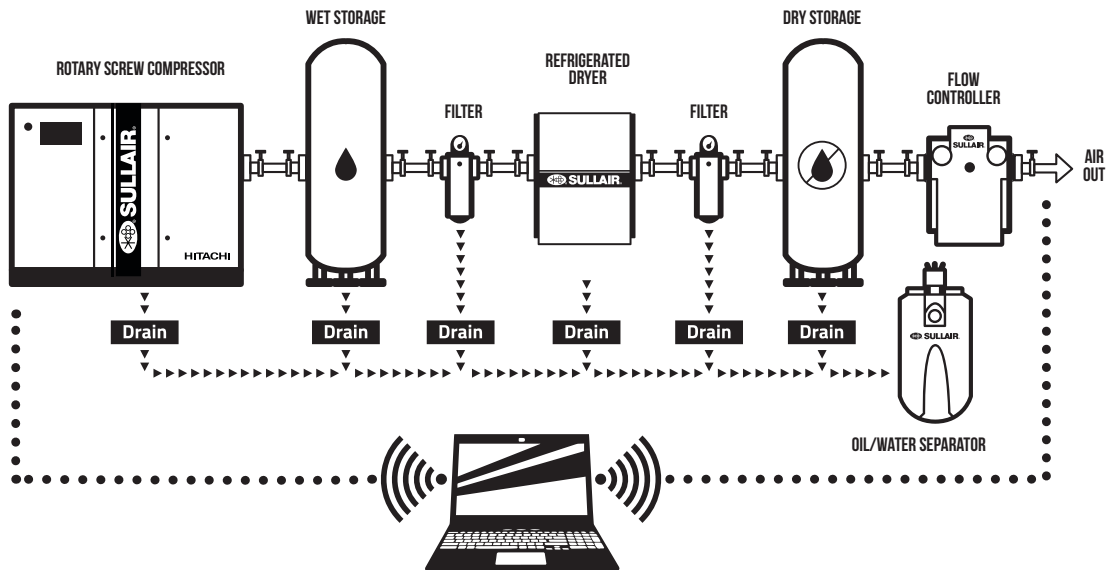
HOW FlowLogic™ CONTROLLERS WORK

Most plant air systems have sufficient compressed air capacity but can't distribute it efficiently during peak demand. Many systems increase the pressure to compensate which leads to significant energy waste as well as extra wear and tear on the air compressor.

FlowLogic Controllers are engineered to stabilize air pressure throughout the compressor system which helps optimize compressed air usage.

When demand is low, the controller sends the compressed air to be stored wherever capacity is available.

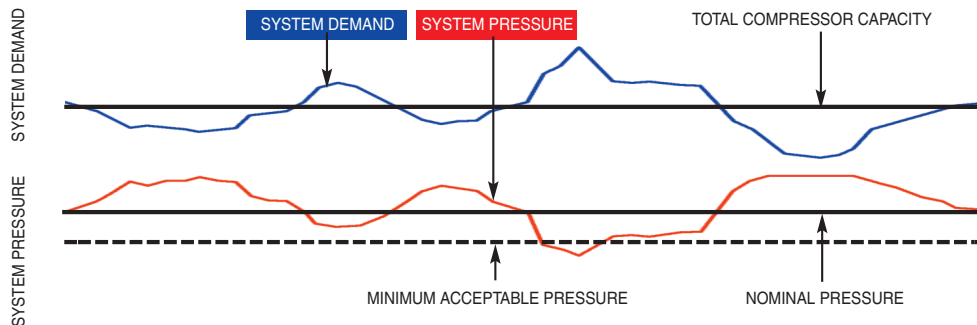
Once demand increases, the controller releases the stored air directly to where it is needed.



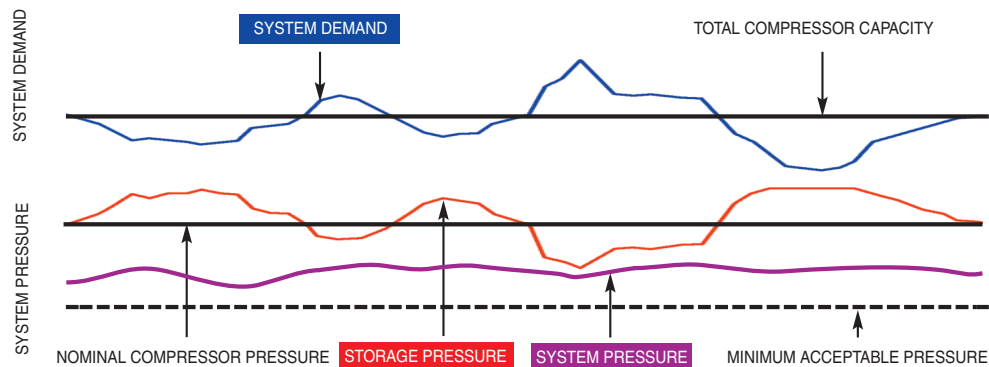
Example:

An air-using operation needing 50 cfm for 5 seconds, requires 125 hp of online compressor. Releasing 50 cfm from storage and replenishing storage in less than two minutes requires the equivalent of a 7.5 hp compressor.

Compressed Air System Without FlowLogic Controller



Compressed Air System with FlowLogic Controller



FlowLogic™ FEATURES & BENEFITS

- Helps increase energy efficiency—controllers can pay for themselves in a little as six months with energy savings!
- Helps stabilize air pressure
- Helps reduce the impact of air leaks
- Helps reduce wear and tear on compressors which can lead to longer a lifecycle
- Helps reduce the number of compressors needed
- Compact integrated assembly
- Inlet and system pressure gauges
- Tamper resistant servo-pilot controls outlet pressure
- Multi-parallelled valve system helps provide instant response
- Removable dashboard
- Black anodized aluminum header tubes

Options

- 3-valve manual bypass
- Low pressure fail-safe with optional automatic bypass
- ModBus RTU communication
- Electronic Control
 - Pressure scheduling
 - Communications capability



SFLE Electric Control Panel



Robust Tubular Header Design



Re-locatable dashboard (standard feature)

Inlet pressure gauge

System pressure control

System pressure gauge

(The remote-control panel is standard for the SFL-2600 units and larger. It is available as an option for all other units.)



FLOWLOGIC™ SPECIFICATIONS

Nominal flow ratings	Based on 100 – 120 psi (6.9 – 8.3 bar) inlet pressure 100°F (38° C) inlet temperature 100°F (38° C) ambient temperature 5 psig (.3 bar) control pressure differential
Maximum inlet temperature	125° F (51.7° C)
Maximum inlet pressure	150 – 1750 cfm (4.2 – 49.6 m³/min): 200 psi (13.8 bar) 2600 – 5500 cfm (73.6 – 155.7 m³/min): 150 psi (10.3 bar)
Outlet pressure range	150 – 1750 cfm (4.2 – 49.6 m³/min): 50 – 195 psi (3.4 – 13.2 bar) 2600 – 5500 cfm (73.6 – 155.7 m³/min): 50 – 145 psi (3.4 – 10.0 bar)
Pressure Regulation	+/- 1% at rated flow and pressure

Model	Rated cfm at 100psi	Connection Size	Dimensions (in) W x H x D	Weight
SFL-150	150	1-1/2"MNPT	9 x 12 x 8.6	20
SFL-250	250	1-1/2"MNPT	9 x 12 x 8.6	20
SFL-500	500	2"MNPT	18.5CL x 29.5 x 11.75	50
SFL-750	750	3"MNPT	18.5CL x 30 x 12.75	70
SFL-1000	1000	3"MNPT	18.5CL x 30 x 12.75	110
SFL-1500	1500	3"MNPT	18.5CL x 30 x 12.75	125
SFL-1750	1750	4"MNPT	18.5CL x 30 x 12.75	125
SFL-2600	2600	4" Flange	30CL x 33 x 17.25	375
SFL-3500	3500	6" Flange	30CL x 33 x 18.25	375
SFL-5500	5500	6" Flange	30CL x 33 x 18.25	400

Model	Rated cfm at 100psi	Connection Size	Dimensions (in) W x H x D	Weight
SFL-150 w/Bypass	150	1-1/2"FNPT	34 x 17 x 8.6	65
SFL-250 w/Bypass	250	1-1/2" FNPT	34 x 17 x 8.6	65
SFL-500 w/Bypass	500	2"FNPT	24.5 x 44.25 x 12.75	107
SFL-750 w/Bypass	750	3"FNPT	24.5 x 44.25 x 12.75	127
SFL-1000 w/Bypass	1000	3"FNPT	24.5 x 44.25 x 12.75	167
SFL-1500 w/Bypass	1500	3"FNPT	24.5 x 44.25 x 12.75	182
SFL-1750 w/Bypass	1750	4" Victaulic	18.5CL x 51 x 12.25	205
SFL-2600 w/Bypass	2600	4" Flange	30CL x 57 x 17.25	575
SFL-3500 w/Bypass	3500	6" Flange	30CL x 51.5 x 18.25	575
SFL-5500 w/Bypass	5500	6" Flange	30CL x 51.5 x 18.25	600