Models 106-EF-8837BX / 206-EF-8837BX
Excess Flow (Burst Control) Valve

206-EF-8837BX Globe

KEY FEATURES

- Tight shut-off when flow exceeds a pre-determined amount
- Manual re-activation required after failure
- “Failure Signal” options available

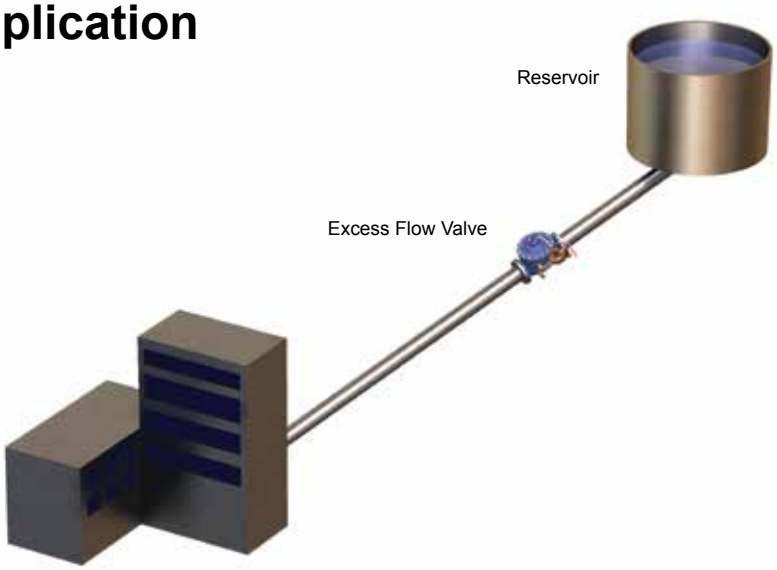
Product Overview

The 106-EF-8837BX and 206-EF-8837BX excess flow valves are based on the 106-PT and 206-PT Double Chamber main valves. The valve is designed to shut-off tightly when flow exceeds a pre-determined amount.

The 625-RPD pilot senses the pressure drop of the valve and closes the valve when the tripping flow is reached. Typical pressure drop at tripping is 5 psi / 0.35 bar.

Tripping flow is adjusted by limiting the valve opening with the X102 Stroke Limiter. 10 psi / 0.7 bar inlet pressure must be maintained at the valve inlet when the valve has tripped to prevent self re-setting. This valve closes fast and from a significant velocity. If the upstream pipe is longer than 2,000 ft / 600 m, closing speed control should be included. When tripped (closed), this valve has a continuous exhaust of about 1 GPM / 0.063 L/sec to drain.

Typical Application



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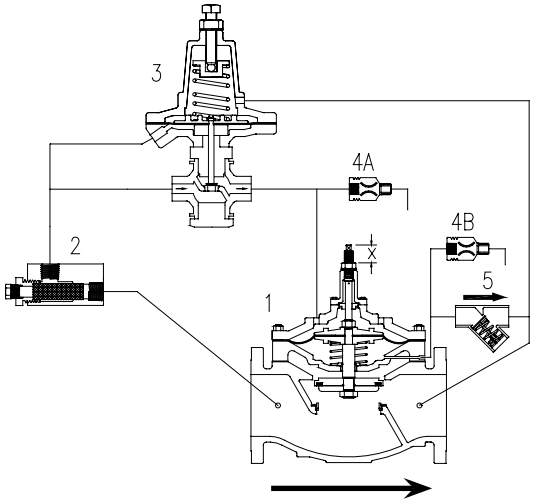
Schematic Drawing



Schematic A-8837BX

1. Model 106-PT-EF / 206-PT-EF Main Valve c/w X102 Stroke Limiter
2. Strainer
3. Model 625-RPD Normally Closed Pilot
4. Fixed Restriction - 1/16 in / 1.6 mm (4A, 4B)
5. ASCO Model V0122 Check Valve

Specifications

- The valve shall be Singer Model 106-EF-8837BX or 206-EF-8837BX, size "___", ANSI Class 150 (ANSI 300, ANSI flanges drilled to ISO PN 10 / 16 / 25 / 40) globe / angle style valve. Assembly shall be according to Schematic A-8837BX. Performance Requirements: The valve must trip consistently within 5 % of the nominal tripping flow and will consistently not trip at 90% of the nominal tripping flow.
- Refer to Main Valve section, see page 34, 106-PT or 206-PT for detailed information pertaining to valve sizes and materials, selection criteria and specifications.
- Refer to Pilot and Accessories section, see page 274, Model 625-RPD Normally Closed Pilot for detailed information pertaining to materials and specifications.

Selection Summary

1. Confirm that the application calls for a valve that closes and remains closed if the flow momentarily exceeds the set-point, regardless of what the cause of the high flow is.
2. Using sizing charts for fully open valves, select a valve size and model that has a higher flow at 5 psi / 0.345 bar pressure drop than any anticipated tripping flow. Consider both 106 and 206 style valves. Avoid over-sizing.
3. Remember that this valve closes fast and from a significant velocity. Closing Speed Control may be required.
4. A drain may be required in chamber due to continuous exhaust when valve has tripped.
5. Ensure that flange pressure rating exceeds maximum operating pressure.

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Ordering Instructions

Refer to page 293 for the order form and ordering instructions.

Additionally, include the following information for this product:

- Tripping flow

106-EF	Flow Capacity (See 106-PT in Main Valve section for other valve data)				
Size (inches)	3 in	4 in	6 in	8 in	10 in
Size (mm)	80 mm	100 mm	150 mm	200 mm	250 mm
Maximum tripping (USGPM)	250	440	1000	1700	2700
Maximum tripping (L/s)	16	28	63	107	170

206-EF	Flow Capacity (See 206-PT in Main Valve section for other valve data)					
Size (inches)	3 in	4 in	6 in	8 in	10 in	12 in
Size (mm)	80 mm	100 mm	150 mm	200 mm	250 mm	300 mm
Maximum tripping (USGPM)	135	320	560	1100	2200	3400
Maximum tripping (L/s)	9	20	35	69	139	215