

# MODELS 106-EF-8837BX / 206-EF-8837BX EXCESS FLOW (BURST CONTROL) VALVE

## KEY FEATURES

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



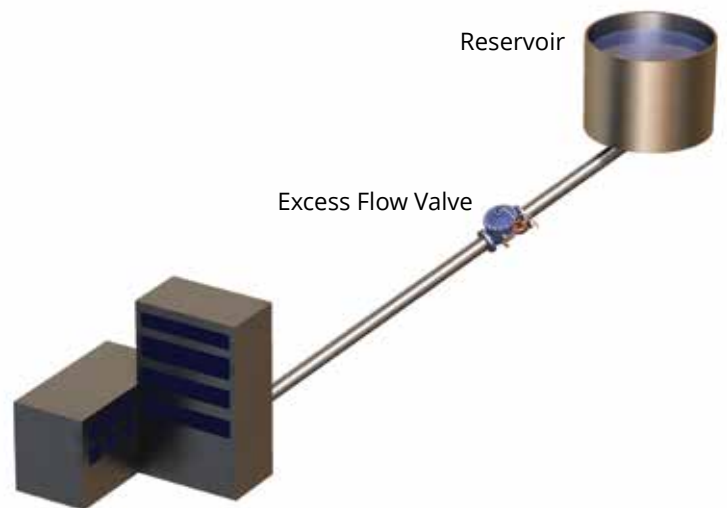
## PRODUCT OVERVIEW

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.

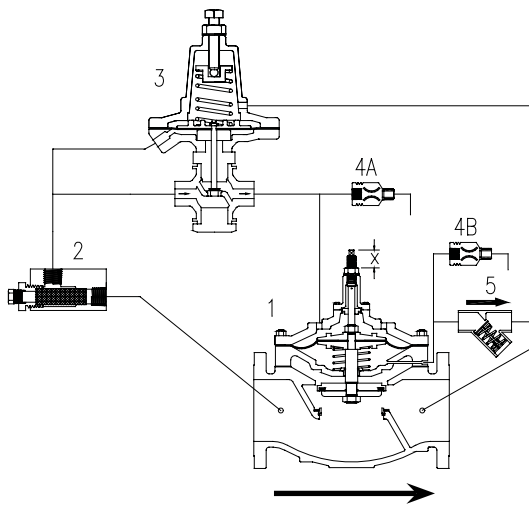
## TYPICAL APPLICATION



# MODELS 106-EF-8837BX / 206-EF-8837BX EXCESS FLOW (BURST CONTROL) VALVE

## SCHEMATIC DRAWING

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. Check Valve



Schematic A-8837BX

## 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.

## ORDERING INSTRUCTIONS

Refer to page 244 for the order form and ordering instructions.

Additionally, include the following information for this product:

Tripping flow

# MODELS 106-EF-8837BX / 206-EF-8837BX EXCESS FLOW (BURST CONTROL) VALVE

| 106-EF                   | <b>Flow Capacity</b><br>(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                   | <b>Flow Capacity</b><br>(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    |