

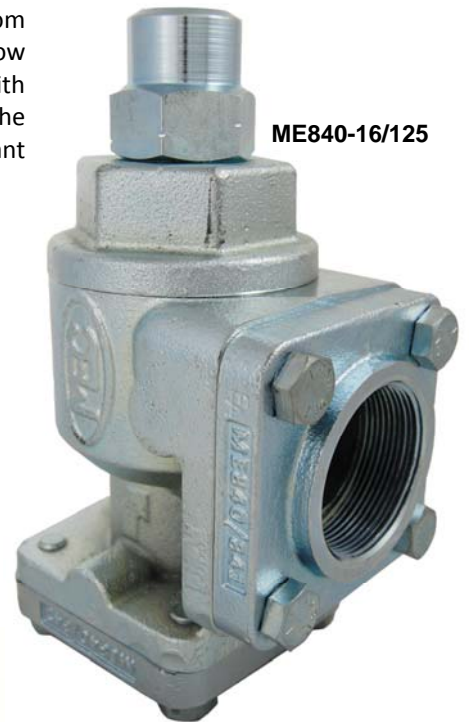
High Flow Bypass Valves For Bobtail Truck / Plant Applications

Application:

These bypass valves are specifically designed to protect truck and plant pumps from damage due to excessive pressure while providing the industry's best bypass flow rates across a full range of set pressures. They feature wide open flow channels with an orifice weep hole chamber to prevent the valve from slamming open / closed. The weep hole chamber also helps to prevent valve seat chatter by allowing constant pressure communication both upstream and downstream of the seat.

Features:

- All ductile iron body and bonnet
- All stainless steel wetted components
- Wide open flow channels for industry best flow rates
- Orifice weep hole to maintain constant pressure above and below valve seat
- Large range of set pressure springs
- Weldable steel NPT and socket weld flanges
- Zinc dichromate finish for maximum corrosion resistance
- Available with or without flanges assembled
- Flanges available 1-1/4" through 2" NPT and socket weld construction
- Universal 4 bolt, flanged body configuration
- Two 1/4" FNPT plugged auxiliary pressure ports
- Heavy duty protective stem cap
- Industry standard size envelope for drop-in replacement
- Factory set at 125 PSI



Part #	Description	Standard Spring Range
ME840-10-125	1-1/4" FNPT High Flow Bypass Valve	90-125 PSI
ME841-10-125	1-1/4" Socket Weld High Flow Bypass Valve	90-125 PSI
ME840-12-125	1-1/2" FNPT High Flow Bypass Valve	90-125 PSI
ME841-12-125	1-1/2" Socket Weld High Flow Bypass Valve	90-125 PSI
ME840-16-125	2" FNPT High Flow Bypass Valve	90-125 PSI
ME840C-16-125	2" FNPT Classic Flow Bypass Valve	90-125 PSI
ME841-16-125	2" Socket Weld High Flow Bypass Valve	90-125 PSI
ME840-125	1-1/4" - 2" Universal High Flow Bypass w/o Flanges	90-125 PSI

*Alternate spring ranges available.



ME840-16-104
Standard Poppet



ME840-16-104
Classic Poppet

*Designed to create higher differential pressure and increases poppet travel in low flow applications such as bobtails

Universal Flange Kits	
Part #	Description
ME840-10F	1-1/4" FNPT 4 Bolt Flange Adapter Plate w/ Bolts & O-Ring
ME841-10F	1-1/4" Socket Weld 4 Bolt Flange Adapter Plate w/ Bolts & O-Ring
ME840-12F	1-1/2" FNPT 4 Bolt Flange Adapter Plate w/ Bolts & O-Ring
ME841-12F	1-1/2" Socket Weld 4 Bolt Flange Adapter Plate w/ Bolts & O-Ring
ME840-16F	2" FNPT 4 Bolt Flange Adapter Plate w/ Bolts & O-Ring
ME841-16F	2" Socket Weld 4 Bolt Flange Adapter Plate w/ Bolts & O-Ring
MEP840-10	1-1/4" FNPT 4 Bolt 90° Flange Adapter Elbow w/ Bolts & O-Ring
MEP841-10	1-1/4" Socket Weld 4 Bolt 90° Flange Adapter Elbow w/ Bolts & O-Ring
MEP840-12	1-1/2" FNPT 4 Bolt 90° Flange Adapter Elbow w/ Bolts & O-Ring
MEP841-12	1-1/2" Socket Weld 4 Bolt 90° Flange Adapter Elbow w/ Bolts & O-Ring
MEP840-16	2" FNPT 4 Bolt 90° Flange Adapter Elbow w/ Bolts & O-Ring
MEP841-16	2" Socket Weld 4 Bolt 90° Flange Adapter Elbow w/ Bolts & O-Ring
Parts & Accessories	
Part #	Description
ME840K	1-1/4" - 2" Complete Bypass Repair Kit - Less Spring
ME840SRK	1-1/4" - 2" Bypass Seal Repair Kit
ME840-16-108-40	1-1/4" - 2" Bypass Valve Spring 20-40 PSI
ME840-16-108-70	1-1/4" - 2" Bypass Valve Spring 41-70 PSI
ME840-16-108-90	1-1/4" - 2" Bypass Valve Spring 71-90 PSI
ME840-16-108-125	1-1/4" - 2" Bypass Valve Spring 91-125 PSI
ME840-16-108-150	1-1/4" - 2" Bypass Valve Spring 126-150 PSI
ME868-16-05	1-1/4" - 2" Universal 4 Bolt Flange O-Ring
ME840-16-109	1-1/4" - 2" Universal Bonnet O-Ring
ME840-16-110	1-1/4" - 2" Universal Spring Guide O-Ring
ME840-16-104	1-1/4" - 2" Universal Valve Poppet - Stainless Steel

Flow Range

Minimum and Maximum Flow Rating* - GPM (Water) @						
Part No.	Min. Flow (GPM/Water)			Max. Flow (GPM/Water)		
	125 PSI	150 PSI	200 PSI	125 PSI	150 PSI	200 PSI
ME840-10 Series	152	186	226	277	319	379
ME840-12 Series	180	199	230	333	372	434
ME840-16 Series	181	201	232	356	399	465



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