

# High Flow 3" Bypass Valve for Plant Applications



**ME840-24/100**



## **Application:**

Specifically designed for plant systems where maximum bypass flow is necessary to protect the pump from rapid pressure changes or over pressurization. Perfectly suited for 4" base mount pumps or larger pump applications.

## **Features:**

- All ductile iron body and bonnet
- All stainless steel wetted internal components
- Bonnet / seat positioned at 35° angle for maximum product flow
- Downstream bleed port to boost product flow during bypass
- Two 1/4" FNTP plugged pressure ports
- Heavy duty protective stem cap
- Durable powder coat finish
- Factory set at 100 PSI

Part No.	Description	Standard Spring Range
<b>ME840-24-100</b>	3" FNPT High Flow Bypass Valve	76-100 PSI
Parts and Accessories		
Part No.	Description	
<b>ME840-24K</b>	3" Complete Bypass Repair Kit - Less Spring	
<b>ME840-24SRK</b>	3" Bypass Seal Repair Kit	
<b>ME840-24-105-100</b>	3" Bypass Valve Spring 0-100 PSI	
<b>ME840-24-105-200</b>	3" Bypass Valve Spring 100-200 PSI	

## ***Flow Range***

Minimum and Maximum Flow Rating* - GPM (Water) @			
Part No.	Pressure	Min. Flow (GPM/Water)	Max. Flow (GPM/Water)
<b>ME840-24-100</b>	125	451	1,038



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# High Flow Bypass Valves for Dispensing Applications

## Application:

Intended for use in small cylinder filling applications as a bypass and primer valve for turbine style dispensing pumps. These bypass valves have a special “check ball” mechanism that helps eliminate vapor from liquid while keeping the pump flooded and properly primed. The priming and vapor elimination feature reduces pump wear and promotes seal longevity.

## Features:

- All ductile iron body and bonnet
- Large range of set pressure springs
- Two 1/4" FNPT plugged auxiliary pressure ports
- Stainless steel main valve poppet
- Heavy duty protective stem cap
- Available in 3/4" & 1" FNPT versions
- Factory set at 125 PSI
- Durable powder coat finish
- Single threaded bonnet
- Drop-in replacement with industry standard envelope.



**ME840-6/150**

Part No.	Description	Standard Spring Range
<b>ME840-6-150</b>	3/4" FNPT High Flow Bypass Valve	50-150 PSI
<b>ME840-8-150</b>	1" FNPT High Flow Bypass Valve	50-150 PSI
Parts & Accessories		
Part No.	Description	
<b>ME840-6K</b>	3/4" - 1" Complete Bypass Repair Kit - Less Spring	
<b>ME840-6SRK</b>	3/4" - 1" Bypass Seal Repair Kit	
<b>ME840-8-108-60</b>	3/4" - 1" Bypass Valve Spring 25-60 PSI	
<b>ME840-8-108-150</b>	3/4" - 1" Bypass Valve Spring 50-150 PSI	
<b>ME840-8-108-225</b>	3/4" - 1" Bypass Valve Spring 100-225 PSI	
<b>ME870-24-06</b>	3/4" - 1" Bypass Valve Replacement Bonnet O-Ring	

## 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
<b>ME840-6-150</b>	30	58	94	97	109	129
<b>ME840-8-150</b>	75	111	170	164	182	211



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# 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
- Available 1-1/4" through 2" NPT and socket weld flange ends
- 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



**ME840-16/125**

Part #	Description	Standard Spring Range
<b>ME840-10-125</b>	1-1/4" FNPT High Flow Bypass Valve	91-125 PSI
<b>ME841-10-125</b>	1-1/4" Socket Weld High Flow Bypass Valve	91-125 PSI
<b>ME840-12-125</b>	1-1/2" FNPT High Flow Bypass Valve	91-125 PSI
<b>ME841-12-125</b>	1-1/2" Socket Weld High Flow Bypass Valve	91-125 PSI
<b>ME840-16-125</b>	2" FNPT High Flow Bypass Valve	91-125 PSI
<b>ME841-16-125</b>	2" Socket Weld High Flow Bypass Valve	91-125 PSI
<b>ME840-125</b>	1-1/4" - 2" Universal High Flow Bypass w/o Flanges	91-125 PSI



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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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