

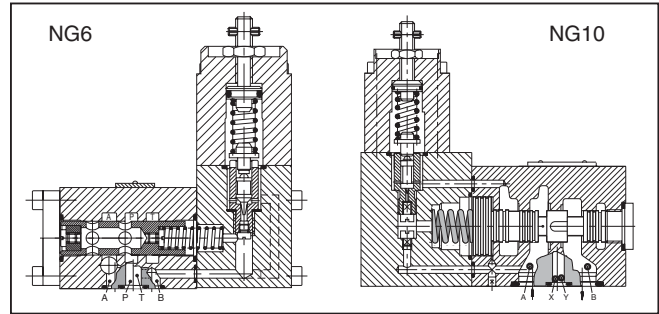
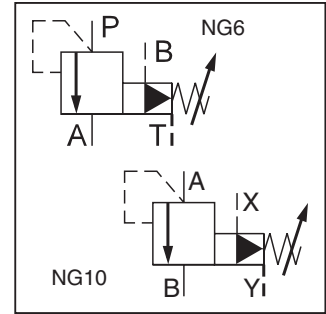
### General Description

Series VBY pilot operated sequence valves consist of a pilot with manual adjustment and a main part with spool execution. The valve has an external drain.

This valve can also be used as a pressure relief valve. Please observe hydraulic connection.

### Features

- Manifold mounting acc. to ISO 5781.
- Type VBY with external drain.
- Main stage spool type valve.
- Pilot stage seated type valve.
- 4 pressure ranges.
- 2 adjustment modes
  - Screw with hexagon socket
  - DIN knob



### Specifications

Size	NG6	NG10
Mounting Pattern	ISO 5781	
Mounting Position	As desired	
Ambient Temperature	-20°C to +80°C (-4°F to +176°F)	
Operating Pressure, Ports External Drain Port Pressure	P, A, B up to 315 Bar (4568 PSI) T up to 100 Bar (1450 PSI)	A, B, X up to 315 Bar (4568 PSI) Y up to 100 Bar (1450 PSI)
Pressure Range	64, 160, 210, 315 Bar (928, 2320, 3045, 4568 PSI)	
Pressure Fluid Temperature	-20°C to +70°C (-4°F to +158°F)	
Viscosity Range Recommended Permitted	30 to 50 cSt / mm <sup>2</sup> /s (139 to 232 SSU) 20 to 380 cSt / mm <sup>2</sup> /s (93 to 1761 SSU)	
Filtration	ISO 4406 (1999), 18/16/13	
Pilot Oil Flow	approx. 500 cm <sup>3</sup> /min	approx. 1000 cm <sup>3</sup> /min

### Ordering Information

**VBY**

Pressure Relief Valve

□

Pressure Range

□

Adjustment

□

Size

□

Seal

□

Design Series

NOTE:  
Not required when ordering.

Code	Description
064	64 Bar (928 PSI)
160	160 Bar (2320 PSI)
210	210 Bar (3045 PSI)
315	315 Bar (4568 PSI)

Code	Description
A	Adjustment Screw with Hexagon Socket
H	Turning Knob with Cylinder Lock

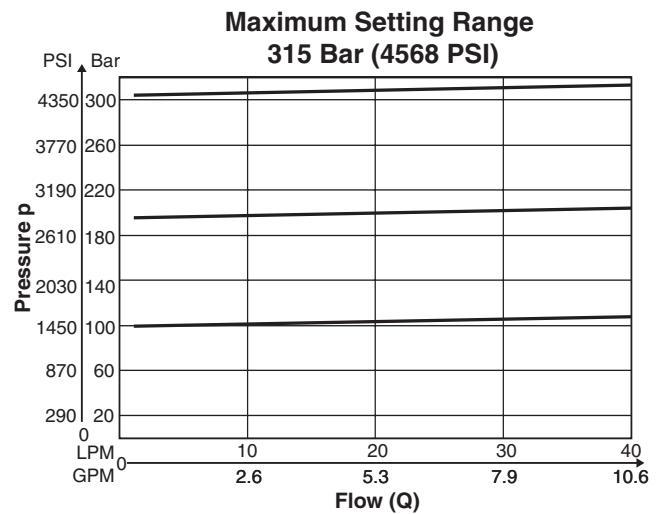
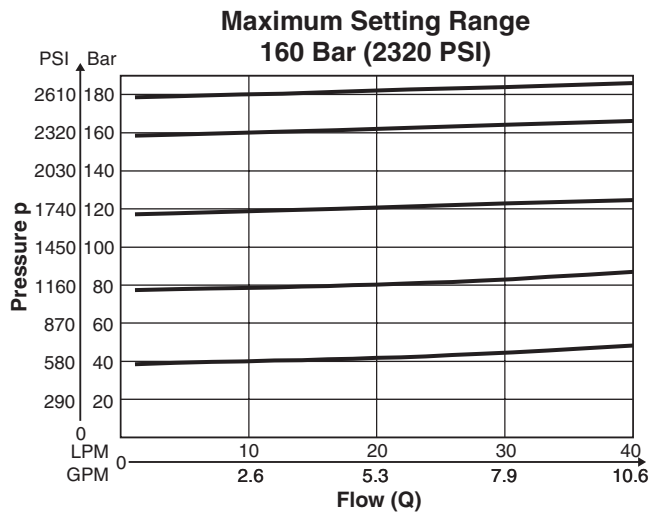
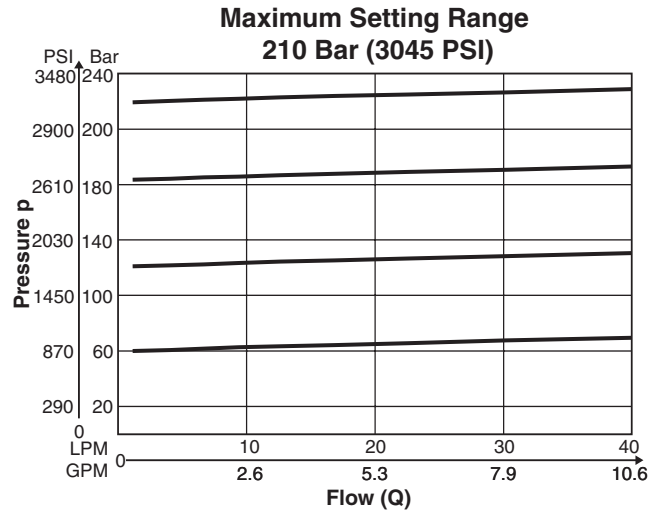
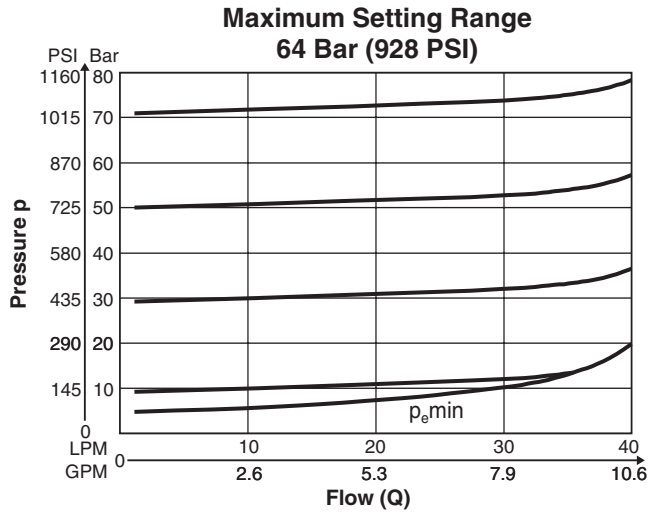
Code	Description
06	NG6
10	NG10

Code	Description
N	Nitrile
V	Fluorocarbon

**Weight:**  
 VBY\*06 2.4 kg (5.29 lbs.)  
 VBY\*10 4.5 kg (9.92 lbs.)

**VBY\*06**

p/Q measured at t = 50°C (122°F) and v = 36mm<sup>2</sup>/s

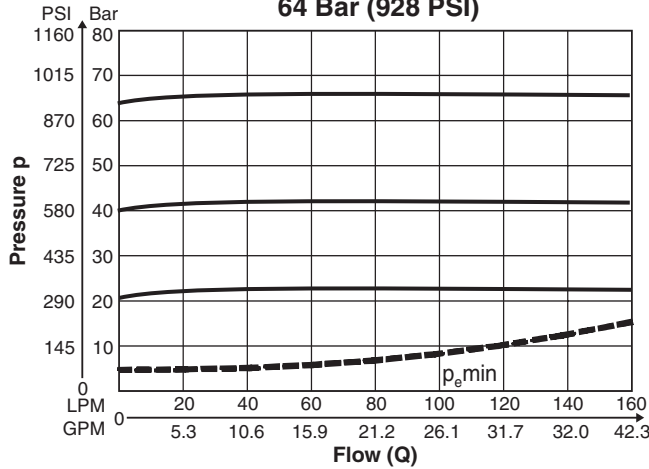


**VBY\*10**

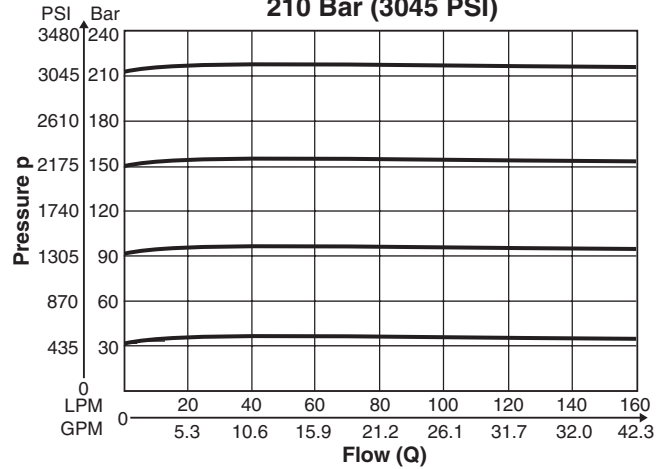
p/Q measured at  $t = 50^{\circ}\text{C}$  ( $122^{\circ}\text{F}$ ) and  $v = 36\text{mm}^2/\text{s}$

**D**

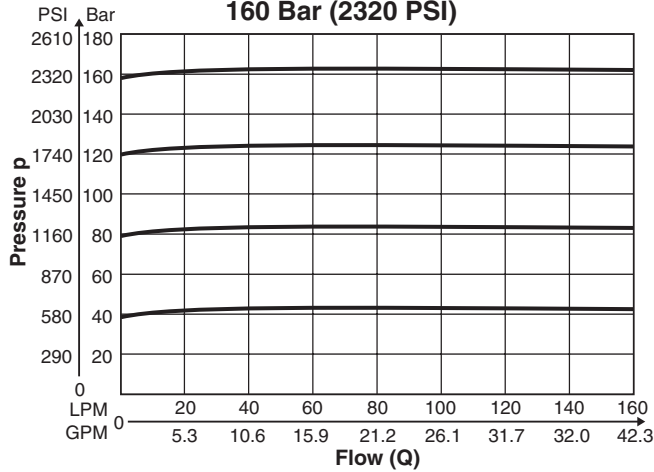
**Maximum Setting Range  
 64 Bar (928 PSI)**



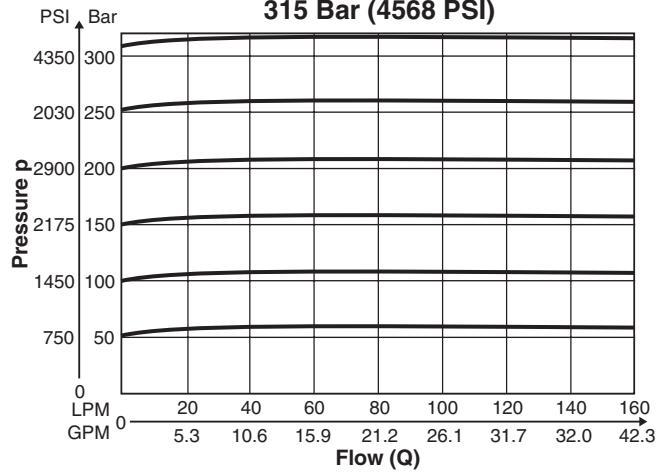
**Maximum Setting Range  
 210 Bar (3045 PSI)**



**Maximum Setting Range  
 160 Bar (2320 PSI)**

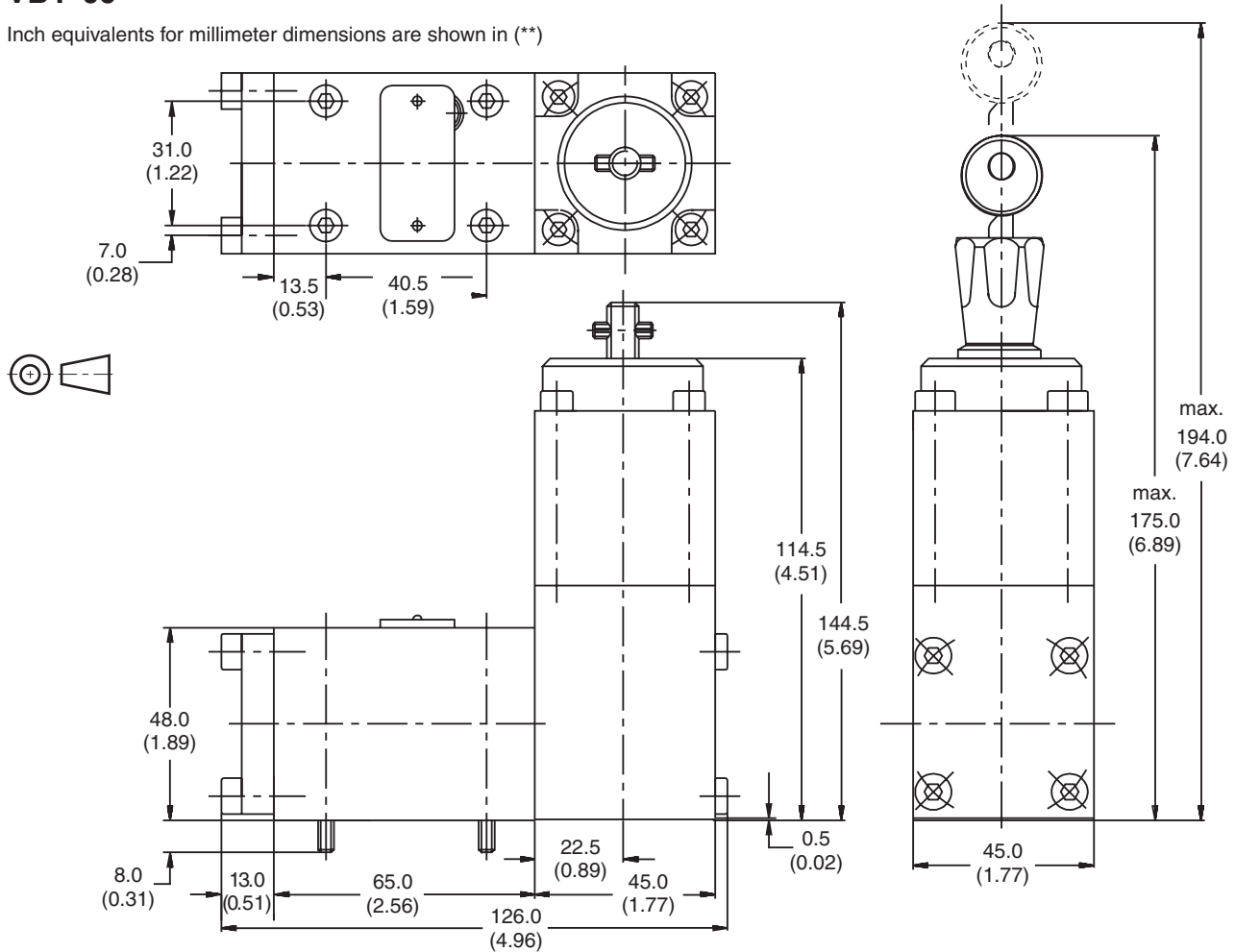





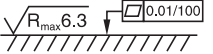
**Maximum Setting Range  
 315 Bar (4568 PSI)**



**VBY\*06**

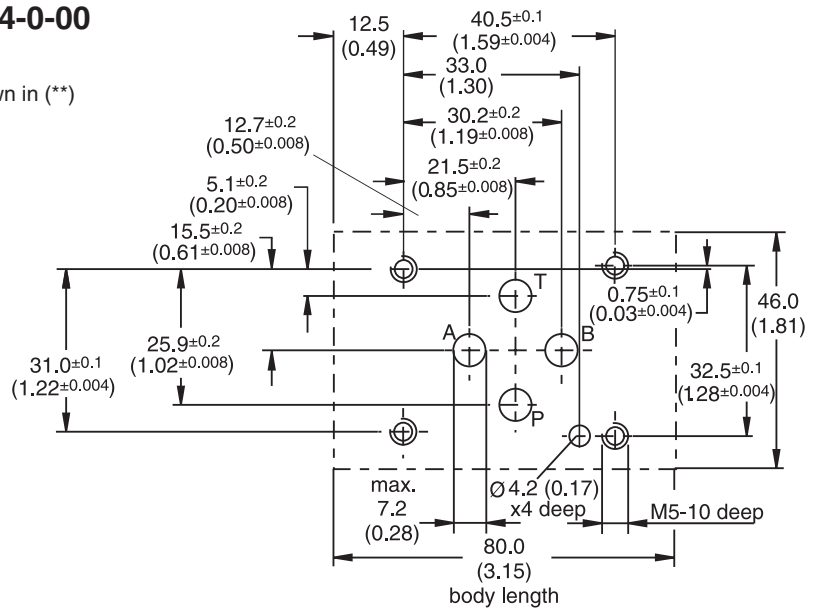
Inch equivalents for millimeter dimensions are shown in (\*\*)



<b>Surface Finish</b>	<b>Bolt Kit</b>  <b>DIN912 12.9</b>		<b>Seal Kit</b> 
	BK375 4x M5x30	7.5 Nm (5.5 lb.-ft.)	Nitrile: SK-VB/VM/VS Fluorocarbon: SK-VB/VM/VS V

**Mounting Pattern ISO 5781-03-04-0-00 (NFPA D03, CETOP 3, NG6)**

Inch equivalents for millimeter dimensions are shown in (\*\*)

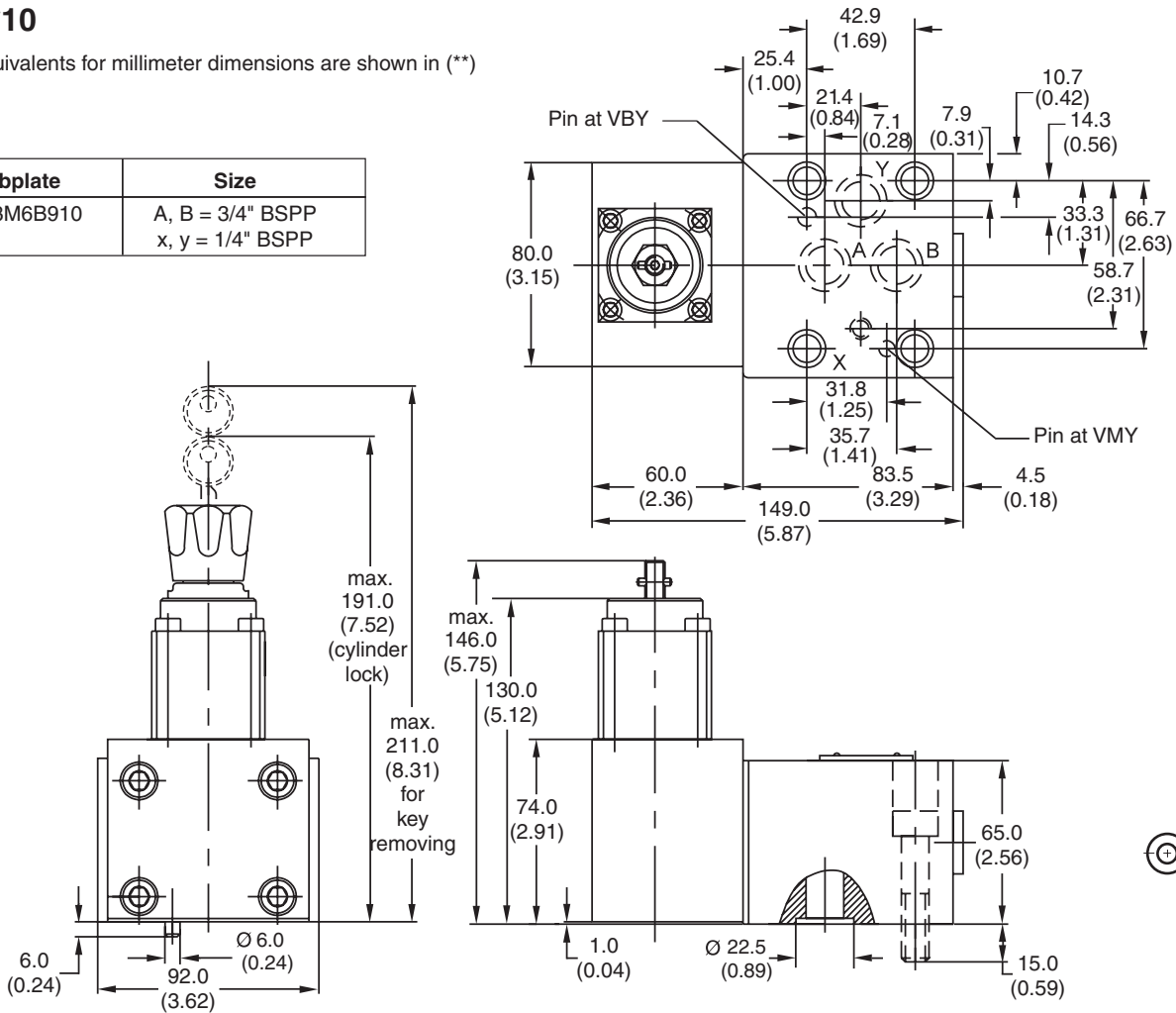





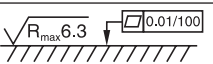
VBY.indd, dd

**VBY\*10**

Inch equivalents for millimeter dimensions are shown in (\*\*)

Subplate	Size
SPP3M6B910	A, B = 3/4" BSPP x, y = 1/4" BSPP



Surface Finish	Bolt Kit  DIN912 12.9	 65 Nm (47.9 lb.-ft.)	Seal  Kit
	BK389 4x M10x50		Nitrile: SK-VB/VM-A10 Fluorocarbon: SK-VB/VM-A10V

**Mounting Pattern ISO 5781-06-07-0-00**

Inch equivalents for millimeter dimensions are shown in (\*\*)

