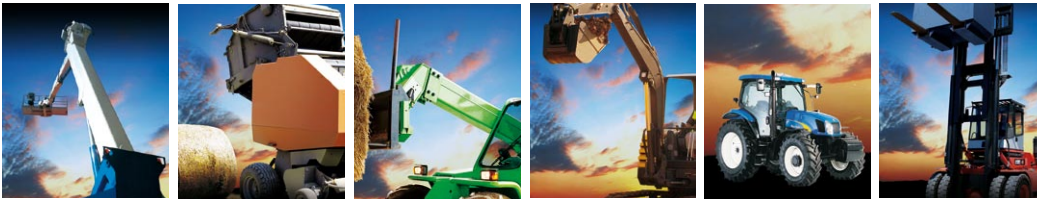


NEW

# PPX series

Pressure compensated  
flow control valves



**A simple and flexible solution  
for different applications**



# PPX series Pressure compensated flow control valves

Walvoil is pleased to present the new pressure compensated flow control valves PP08X, PP10X, PP12X and PP16X. Thanks to the reduced dimensions these valves are indicated for many applications: agriculture, earth moving machines and industrial vehicles.

## Working conditions

This catalogue shows technical specifications and diagrams measured with mineral oil of 46 cSt viscosity at 40° (104°F) temperature.

		PP08X	PP10X	PP12X	PP16X
Nominal flow	Inlet flow (port 1)	20 l/min 5.3 US gpm	50 l/min 13.2 US gpm	90 l/min 23.8 US gpm	150 l/min 39.6 US gpm
	Priority flow (port 3)	15 l/min 3.9 US gpm	30 l/min 7.9 US gpm	60 l/min 15.8 US gpm	100 l/min 41.7 US gpm
Nominal pressure (max.)		315 bar - 4600 psi			
Oil leakage	at 210 bar 3050 psi	80 cm <sup>3</sup> /min 4.9 in <sup>3</sup> /min	150 cm <sup>3</sup> /min 9.2 in <sup>3</sup> /min	250 cm <sup>3</sup> /min 15.3 in <sup>3</sup> /min	250 cm <sup>3</sup> /min 15.3 in <sup>3</sup> /min
Fluid		Mineral based oil			
Viscosity		10-200 cSt			
Max. level of contamination		18/16/13 ISO 4406			
Fluid temperature	NBR seals	from -20°C (-4°F) to 80°C (176°F)			
	FPM seals	from -20°C (-4°F) to 100°C (212°F)			
Environmental temp. for working conditions		from -20°C (-4°F) to 50°C (122°F)			
Cavity		SAE8/3	SAE10/3	SAE12/3	SAE16/3
Nominal voltages		12 VDC - 24 VDC ± 10%			
Max. operating current		1,25 A/12 VDC - 0,63 A/24 VDC			
Power Rating		15 W			
Advised frequency Dither		150 Hz			
Coil insulation		IEC85-EN60730		class F	
Weather protection	IEC 60529	IP65 with DIN connector			IP67 with DEUTSCH connector
	IEC 60529	IP65 with DIN connector			IP67 with DEUTSCH connector

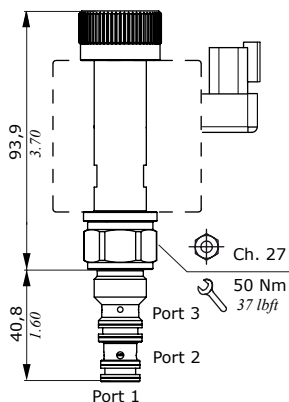
Note - for different conditions please contact Sales Dpt.



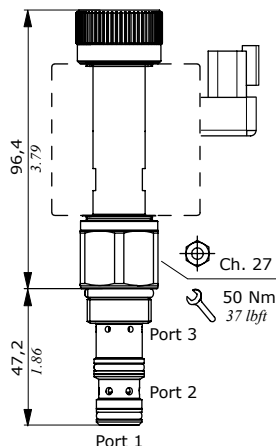
- 3 way proportional flow regulator, pressure compensated (spool type solenoid valves)
- Improved performances
- Reduced dimensions

## Dimensions

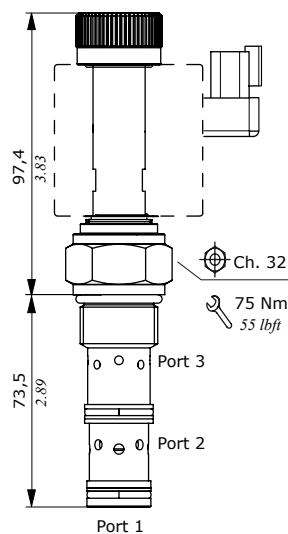
### PP08X



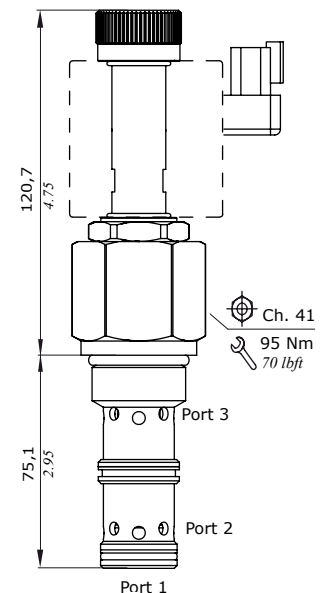
### PP10X



### PP12X



### PP16X

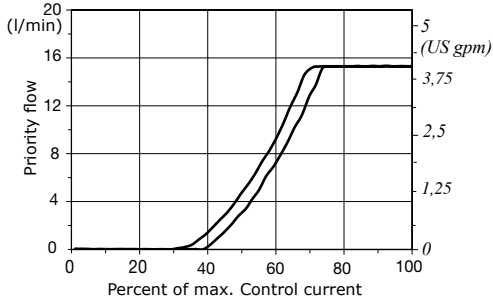


## Performance data

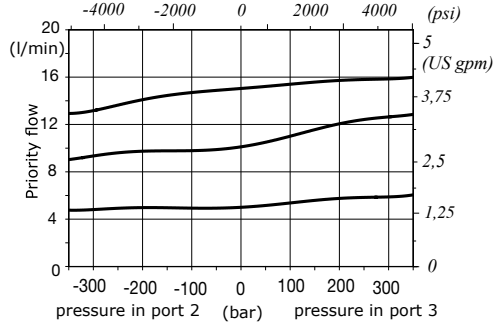
### PP08X

#### Flow regulating diagram

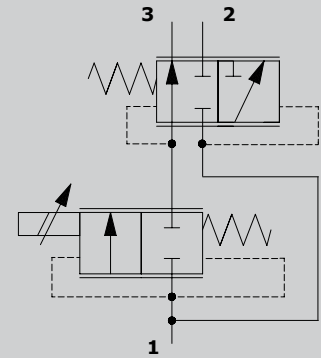
$Q_{in}$  = priority flow +30%



#### Flow pressure diagram from port 2 ⇒ port 3



## Hydraulic circuit

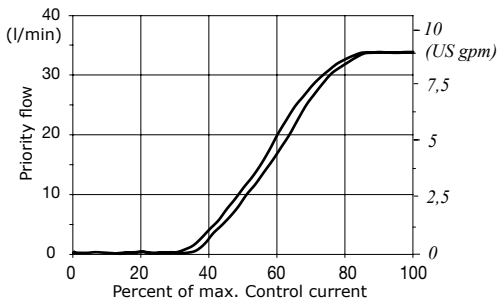


<b>Port 1</b>	Inlet flow
<b>Port 2</b>	Excess flow
<b>Port 3</b>	Priority flow

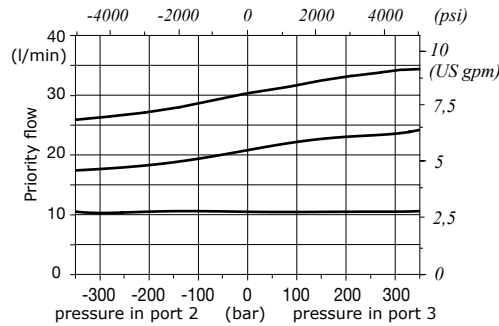
### PP10X

#### Flow regulating diagram

$Q_{in}$  = priority flow +5%



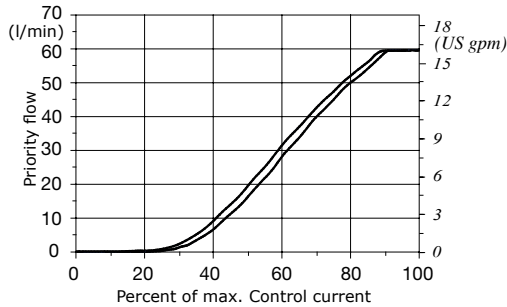
#### Flow pressure diagram from port 2 ⇒ port 3



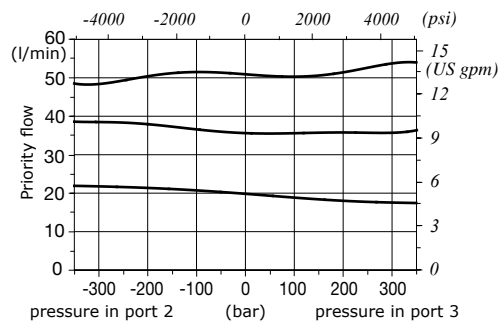
### PP12X

#### Flow regulating diagram

$Q_{in}$  = priority flow +15%



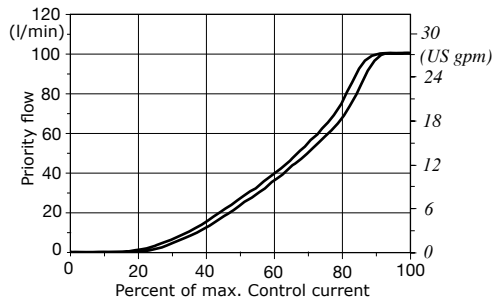
#### Flow pressure diagram from port 2 ⇒ port 3



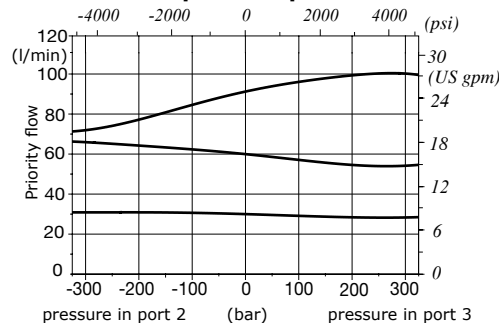
### PP16X

#### Flow regulating diagram

$Q_{in}$  = priority flow +10%



#### Flow pressure diagram from port 2 ⇒ port 3



## Features

The coils are available with 12VDC or 24 VDC, both with connector DIN and connector DEUTSCH.

In addition to the standard configuration without emergency, we can offer the control with screw emergency and with handknob emergency.

## Description composition

