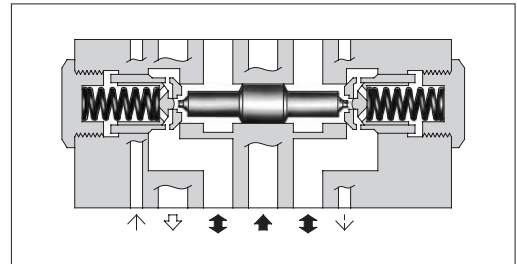


Pilot Operated Check Modular Valves

Specifications

Model Numbers	Max. Operating Pressure MPa (PSI)	Max. Flow L/min (U.S.GPM)
MPA-10*-**-30/3090 MPB-10*-**-30/3090 MPW-10*-**-30/3090	25 (3630)	800 (211)



Model Number Designation

F-	MPA	-10	S	-2	-X	-30	*
Special Seals	Series Number	Valve Size	Port Tapping Feature of Pilot-Drain Port ★ ¹	Cracking Pressure MPa (PSI)	Pilot-Drain ★ ² Connection	Design Number	Design Standard
F: Special Seals for Phosphate Ester Type Fluids (Omit if not required)	MPA : Pilot Operated Check Valve for A-Line MPB : Pilot Operated Check Valve for B-Line MPW : Pilot Operated Check Valve for A&B-Lines	10	None : Taper Thread S : Straight Thread (Applicable only for Japanese Std. "JIS")	2 : 0.2 (29) 4 : 0.4 (58)	None : Internal Pilot-Internal Drain X : External Pilot-External Drain Y : External Pilot-Internal Drain	30	Refer to ★ ³

★¹. This item applies only to External Pilot or External Drain Type.

★². Only "None: Internal Pilot-Internal Drain Type" is available for MPW (for "A&B-Lines").

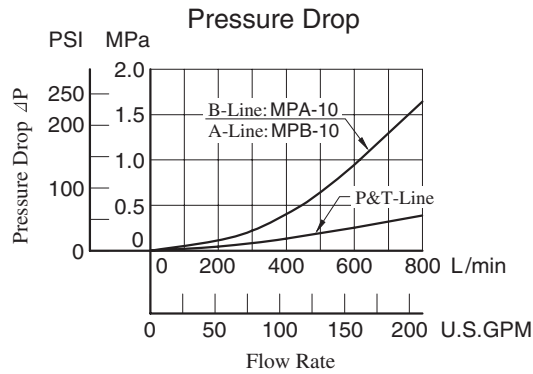
★³. Design Standards: None Japanese Standard "JIS" and European Design Standard
90 N. American Design Standard

Graphic Symbols

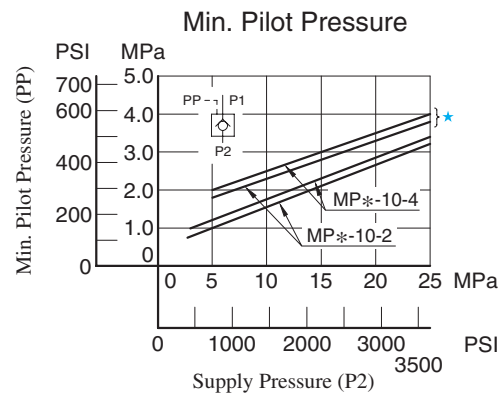
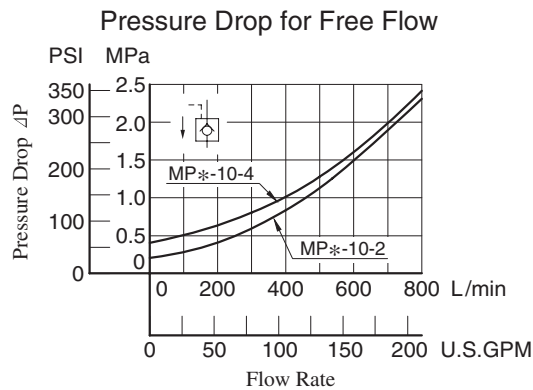
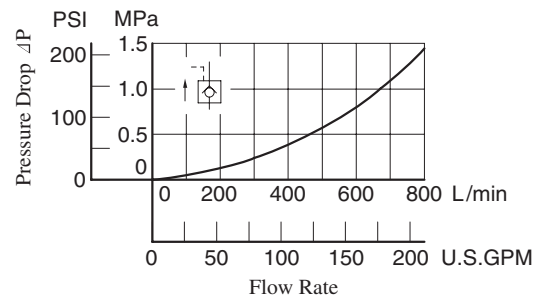
Pilot-Drain type Model No.	Internal Pilot- Internal Drain Type	Exnternal Pilot- External Drain Type	External Pilot- Internal Drain Type
MPA-10	 MPA-10-*	 MPA-10*-*-X	 MPA-10*-*-Y
MPB-10	 MPB-10-*	 MPB-10*-*-X	 MPB-10*-*-Y
MPW-10	 MPW-10-*	—	—

Typical Performance Characteristics

Hydraulic Fluid: Viscosity 35 mm²/s (164 SSU), Specific Gravity 0.850



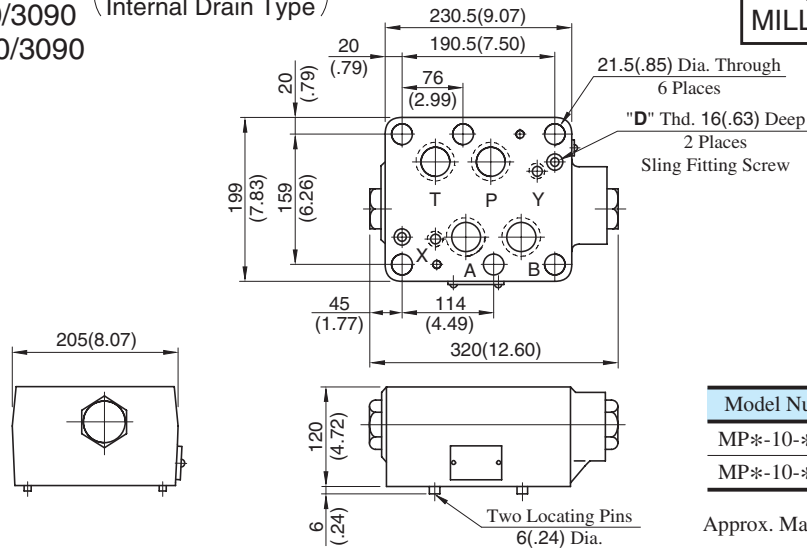
Pressure Drop for Reversed Controlled Flow



★ In case of 500 L/min (132 U.S.GPM) or more.

MPA-10-*-30/3090 (Internal Pilot-
MPB-10-*-30/3090 Internal Drain Type)
MPW-10-*-30/3090

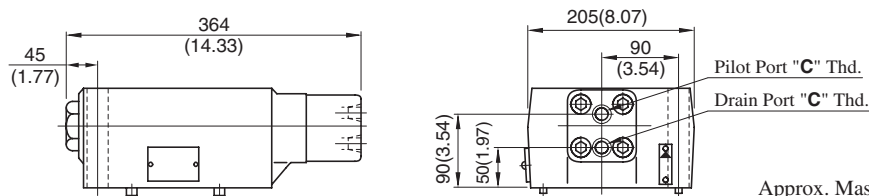
**DIMENSIONS IN
MILLIMETRES (INCHES)**



Model Numbers	"D" Thd.
MP*-10-*-30	M8
MP*-10-*-3090	5/16-18 UNC

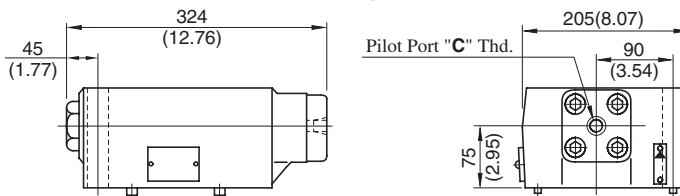
Approx. Mass.....36.5 kg (80.5 lbs.)

MPA-10-*-X-30/3090 (External Pilot-
External Drain Type)



Approx. Mass.....38 kg (83.8 lbs.)

MPA-10-*-Y-30/3090 (External Pilot-
Internal Drain Type)

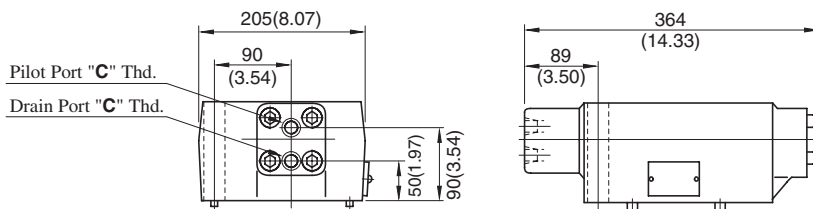


Model Numbers	Thread Size "C" Thd.
MPA-10-*-30	Rc 3/8 = 3/8 BSP. Tr
MPA-10-*-3090	3/8 NPT
MPA-10S-*-30	G 3/8

Approx. Mass.....36.5 kg (80.5 lbs.)

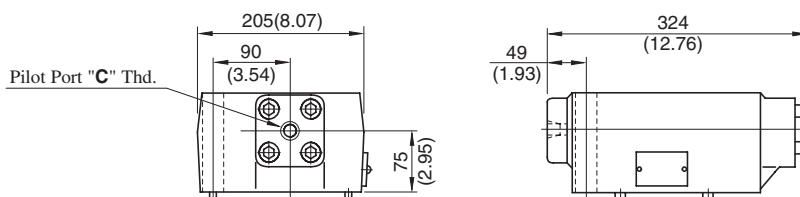
• For other dimensions, refer to "Internal pilot-Internal drain type" drawing above.

MPB-10-*-X-30/3090 (External Pilot-
External Drain Type)



Approx. Mass.....38 kg (83.8 lbs.)

MPB-10-*-Y-30/3090 (External Pilot-
Internal Drain Type)



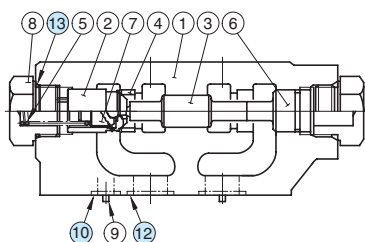
Model Numbers	Thread Size "C" Thd.
MPB-10-*-30	Rc 3/8 = 3/8 BSP. Tr
MPB-10-*-3090	3/8 NPT
MPB-10S-*-30	G 3/8

Approx. Mass.....36.5 kg (80.5 lbs.)

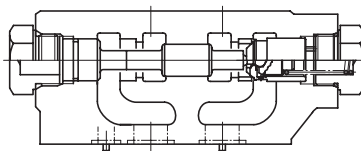
• For other dimensions, refer to "Internal pilot-Internal drain type" drawing above.

Spare Parts List

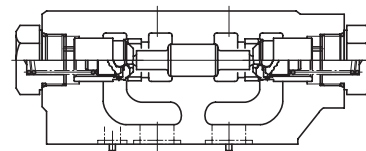
Internal Pilot- Internal Drain Type



MPA-10*-30/3090

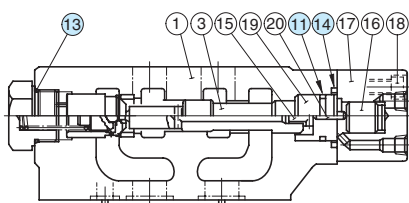


MPB-10*-30/3090

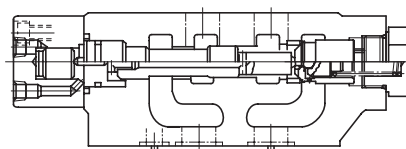


MPW-10*-30/3090

External Pilot- External Drain Type

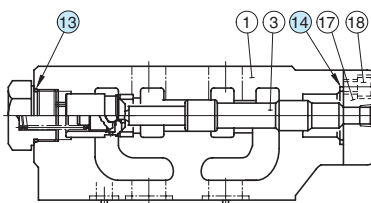


MPA-10*-X-30/3090

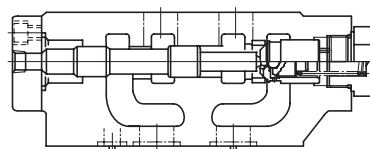


MPB-10*-X-30/3090

External Pilot- Internal Drain Type



MPA-10*-Y-30/3090



MPB-10*-Y-30/3090

List of Seals

Item	Name of Parts	Part Numbers	Quantity		
			Internal Pilot- Internal Drain	External Pilot- External Drain	External Pilot- Internal Drain
10	O-Ring	SO-NB-P16	2	2	2
11	O-Ring	SO-NB-P34	—	1	—
12	O-Ring	SO-NB-P40	4	4	4
13	O-Ring	SO-NB-P44	2	1	1
14	O-Ring	SO-NB-P46	—	1	1

Note: When ordering seals, please specify the seal kit number from the table right.

List of Seal Kits

Valve Model Numbers	Seal Kit Numbers
MPA-10*-	KS-MPA-10-10
MPB-10*-	
MPW-10*-	
MPA-10*-X-	KS-MPA-10-X-10
MPB-10*-X-	
MPA-10*-Y-	KS-MPA-10-Y-10
MPB-10*-Y-	