

# Bell Hydromatics

Pilot Operated

DHG-10



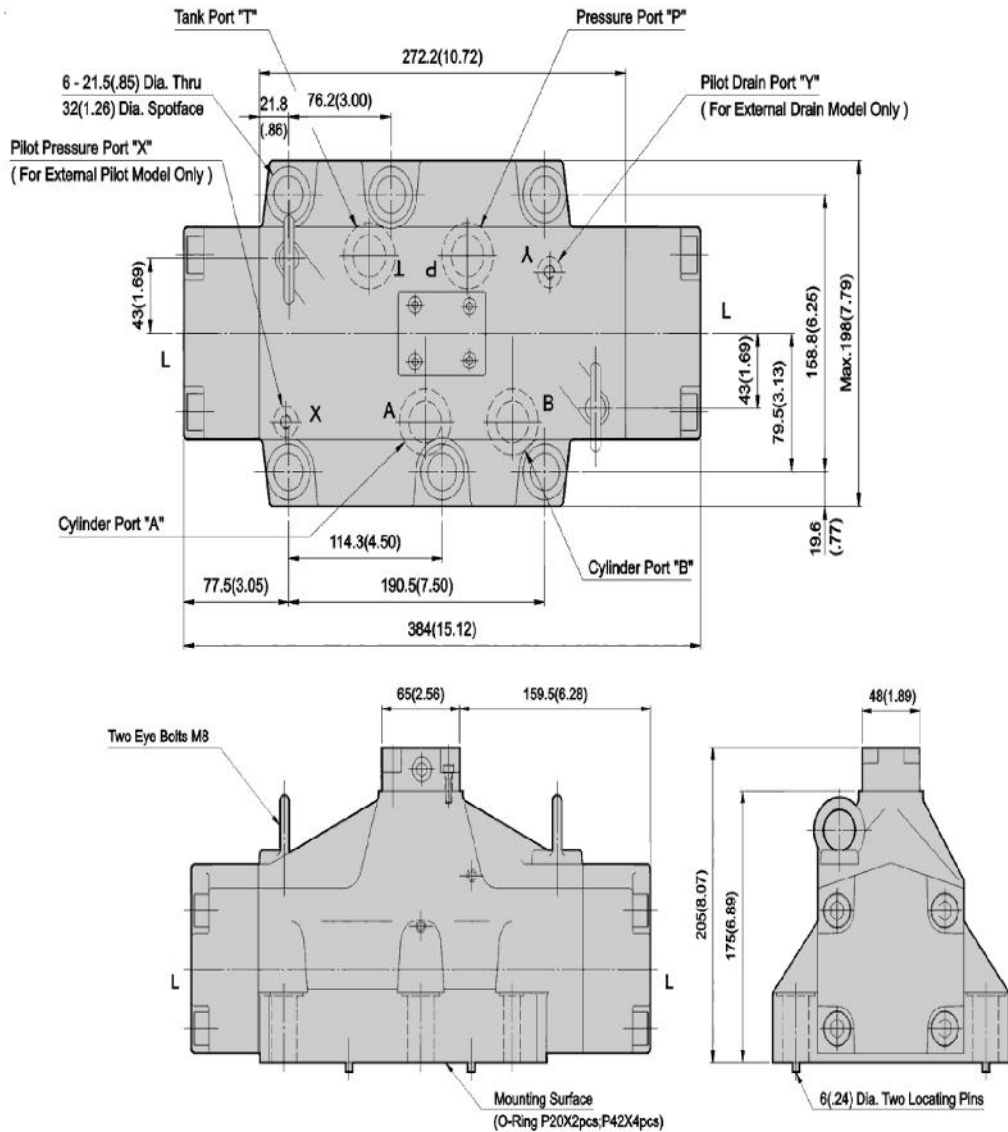
## Features:

- High Flow rate upto 1100 lpm (291 USgpm)
- Maximum Operating pressure upto 315 bar (4500 PSI)
- Long service life with average durability of 50 million spool shifts.

**Technical Specifications**

Spool Type & Graphic Symbols		DHG – 10 (1-1/4")	
Symbols	Model Number	Rated Flow Capacity	Maximum Flow Capacity
	DHG-10-2B2-**	570 lpm (150 USgpm)	1100 lpm (291 USgpm)
	DHG-10-2B3-**		
	DHG-10-2N2-**		
	DHG-10-2N3-**		
	DHG-10-3C2-**		
	DHG-10-3C3-**		
	DHG-10-3C4-**		
	DHG-10-3C40- **		
	DHG-10-3C7-**		
	DHG-10-3C9-**		
	DHG-10-3C10- **		
	DHG-10-3C11- **		
	DhG-10-3C12- **		
	DHG-10-3C5-**	570 lpm (150 USgpm)	950 lpm (250 USgpm)
	DHG-10-3C6-**		
	DHG-10-3C60- **		
<b>Max. Operating Pressure (P.A.B) (bar)</b>		315 (4500 PSI)	
<b>Min. Required Pilot Pressure</b>		10 (143 PSI)	
<b>Max. Pilot Pressure</b>		250 (3600 PSI)	
<b>Max. T-Line Back Pressure (T) (bar)</b>		210 (3000 PSI)	
<b>Weight (Kgs)</b>		43.8(96.6 lbs)	
<b>Hydraulic Fluids</b>		Use Hydraulic Fluids Equivalent to ISO VG32 or VG46	
<b>Operating Temperature Range (°C)</b>		-15 ~ +70 (+5 ~ +160 °F)	
<b>Operating Viscosity (cSt)</b>		15 ~ 400 (80 ~ 1800 SSU)	
<b>Filtration</b>		25 Microns Absolute or Finer	

## Dimensions

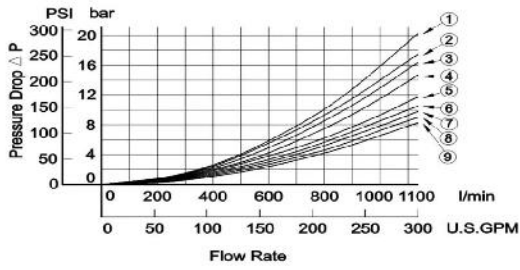


Attachment Name	Description	Tightening Torque	Code
Soc. Hd. Cap Screw	M20X75LgX6pcs	473-585 Nm	30
Soc. Hd. Cap Screw	3/4-10UNCX3"LgX6pcs	4106-5078 in.lbs	3090

## Ordering Code

DHG	3C2	N	10	D1	36	*P*D
Series No.	Spool Type	Electrical Conduit Type	Valve Size	Coil Voltage	Design No.	Pilot and Drain Connection
DHG	Spring centered 3 Position (3C94, 3C60, 3C6, 3C3 etc.)	N: DIN connector with light.	06 : 1-1/4" (NFPA-D10)	D1: DC12V D2: DC24V	36: with DIN 912 bolts	*P -> Pilot Plug (1/16, 1/8, 1/4) *D -> Drain Plug (1/16, 1/8, 1/4)
	Spring Offset 2 Position (2B2, 2B3, 2B8, 2B29 etc.)			D3: DC36V D4: DC48V		1P1D: Internal Pilot, Internal Drain
	Spring Detented 2 Position (2D2, 2D3 etc.)			D5: DC60V D6: DC72V		1P2D: Internal Pilot, External Drain
	For complete list see Spool Types tab below			D14.5: DC14.5v		2P1D: External Pilot, Internal Drain
				D28: DC28V		2P2D: External Pilot, External Drain

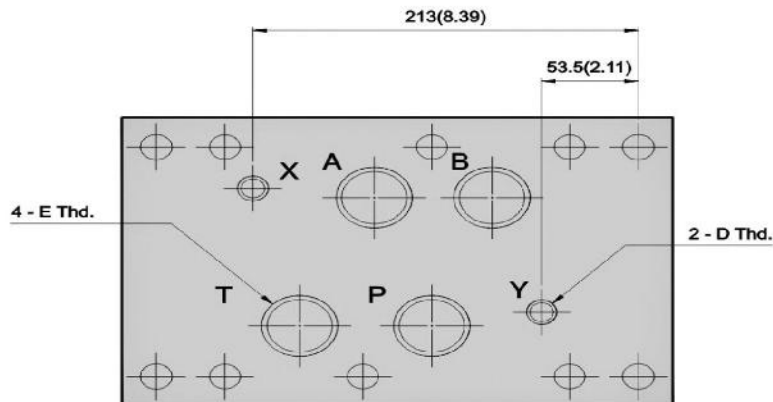
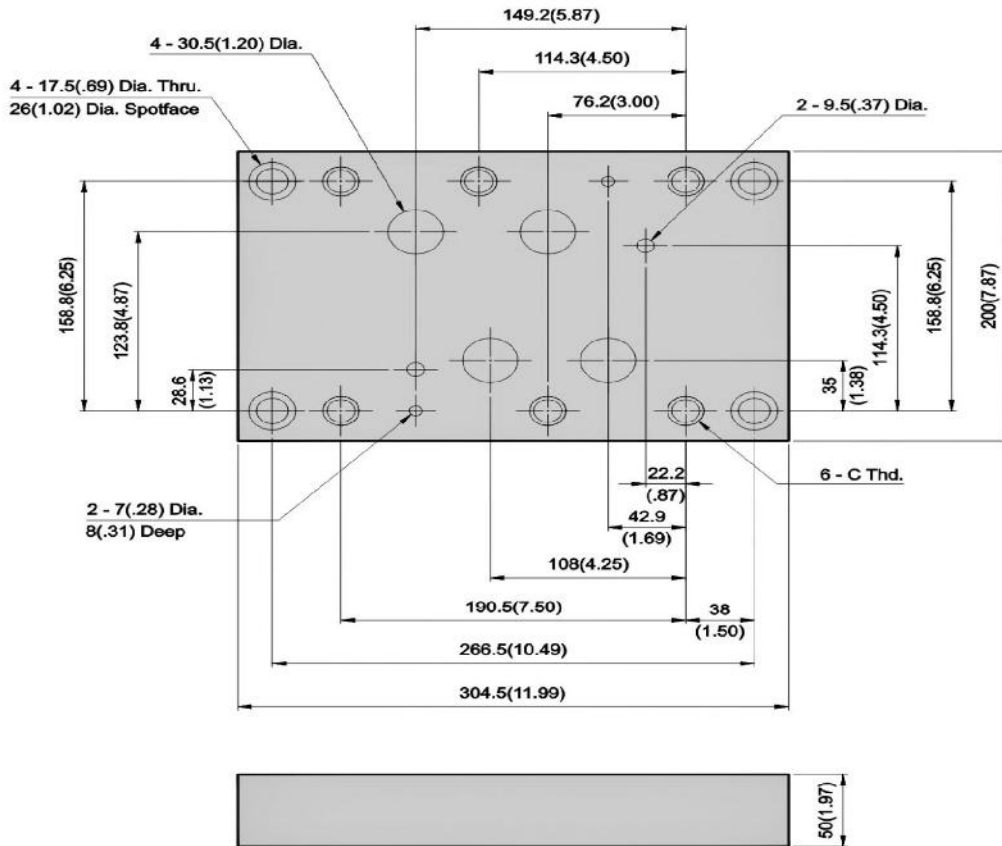
## Performance Graph



Series	Spool Type	Pressure Drop Curve Number				
		P→A	B→T	P→B	A→T	P→T
DSHG-10 DSHG-10-S	3C2	9 (8)	6 (3)	9 (8)	8 (4)	—
	3C3	7	6	7	7	5
	3C4	9 (8)	6 (5)	9 (8)	6 (6)	—
	3C40	9	6	9	8	—
	3C5	9	6	8	6	1
	3C6	5	3	5	4	2
	3C60	8 (8)	5 (4)	8 (8)	5 (4)	3 (2)
	3C7	7	6	7	7	—
	3C9	7	6	7	8	—
	3C10	9	6	9	8	—
	3C11	9	6	8	7	—
	3C12	9	7	9	6	—

Graphs based on fluid viscosity of 35 cSt ( 162 SSU).  
Notes : ( ) curve No. is for shock-less type.

## Sub Plate



CODE	C Thd.	D Thd.	E Thd.
M10-10-**-30	M20XP2.5	PT1/4	PT1-1/4
M10-10-**-3090	3/4-10UNC	NPT1/4	NPT1-1/4