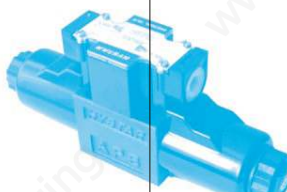
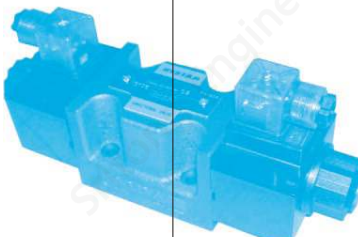
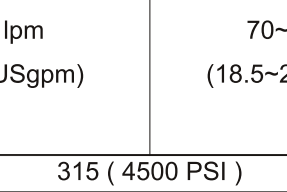
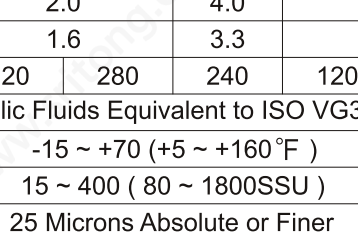


MODEL NO SPECIFICATIONS (DSG-01/03 Solenoid Operated Directional Valves)

A

Spool Type & Graphic Symbols		Rated Flow Capacity -Maximum Flow Capacity											
SYMBOLS	MODEL NO	DSG (X) - 01 (1/8")						DSG - 03 (3/8")					
		AC		RAC		DC		AC		RAC		DC	
		A1	A2	R1	R2	D1	D2	A1	A2	R1	R2	D1	D2
	DSG-2B2-**												
	DSG-2B3-**												
	DSG-2B8-**												
	DSG-2D2-**												
	DSG-2D3-**												
	DSG-3C2-**												
	DSG-3C3-**												
	DSG-3C4-**												
	DSG-3C40-**												
	DSG-3C7-**												
	DSG-3C9-**												
	DSG-3C10-**												
	DSG-3C11-**												
	DSG-3C12-**												
	DSG-3C5-**												
	DSG-3C6-**												
	DSG-3C60-**												
Max. Operating Pressure (P.A.B) (bar)		315 (4500 PSI)											
Max. Operating Pressure 3C5/3C6 Types (bar)		250 (3600 PSI)											
Permissible Back Pressure (T) (bar)		160 (2300 PSI)											
Weight (Kgs)	Double Solenoid	1.9	2.0		4.0		4.8						
	Single Solenoid	1.5	1.6		3.3		3.8						
Switching Frequency (times/min)		280	120	280	240	120	240						
Hydraulic Fluids		Use Hydraulic Fluids Equivalent to ISO VG32 or VG46											
Operating Temperature Range Recommended (°C)		-15 ~ +70 (+5 ~ +160°F)											
Operating Viscosity (cSt)		15 ~ 400 (80 ~ 1800SSU)											
Filtration		25 Microns Absolute or Finer											

DSGX series mini. type solenoid valves.

Max. pressure (P.A.B) : 200bar (2900PSI), 3C5/3C6 spool types : 160bar (2300PSI).

Permissible Back Pressure (T) : 100bar (1430PSI)

Weight : Double Solenoid : 1.6kgs., Single Solenoid : 1.1kgs



LIST OF SPOOL FUNCTIONS (DSG-01/03)

A

SPRING OFFSET 2 POSITION	GRAPHIC SYMBOLS (STANDARD)	SPRING CENTERED 3 POSITION	GRAPHIC SYMBOLS (STANDARD)	NO SPRING DETENTED 2 POSITION	GRAPHIC SYMBOLS (STANDARD)
2A2		3C2		2D2	
2A3		3C3		2D3	
2A14		3C4		2D4	
2A2L		3C40		2D40	
2A3L		3C5		2D7	
2A14L		3C6		2D2A	
2B2		3C60		2D3A	
2B3		3C7		2D4A	
2B8		3C8		2D40A	
2B29		3C9		2D5A	
2B2L		3C10		2D60A	
2B3L		3C11		2D7A	
2B8L		3C12		2D9A	
2B29L		3C25		2D10A	
		3C29		2D11A	
		3C48		2D12A	
		3C94			

LIST OF SPECIAL TWO POSITION VALVES (DSG-01/03)

A

SPRING OFFSET 2 POSITION	GRAPHIC SYMBOLS		SPRING OFFSET 2 POSITION	GRAPHIC SYMBOLS	
	STANDARD	(ALTERNATED)		STANDARD	(ALTERNATED)
2B2A(L)			2B2B(L)		
2B3A(L)			2B3B(L)		
2B4A(L)			2B4B(L)		
2B40A(L)			2B40B(L)		
2B5A(L)			2B5B(L)		
2B6A(L)			2B6B(L)		
2B60A(L)			2B60B(L)		
2B7A(L)			2B7B(L)		
2B8A(L)			2B8B(L)		
2B9A(L)			2B9B(L)		
2B10A(L)			2B10B(L)		
2B11A(L)			2B11B(L)		
2B12A(L)			2B12B		
2B25A(L)			2B25B(L)		
2B29A(L)			2B29B(L)		
2B48A(L)			2B48B(L)		

NOTE : Standard Model No. + L = Alternate Model.
For example, 2B2A is Standard Model, 2B2AL is Alternate Model.

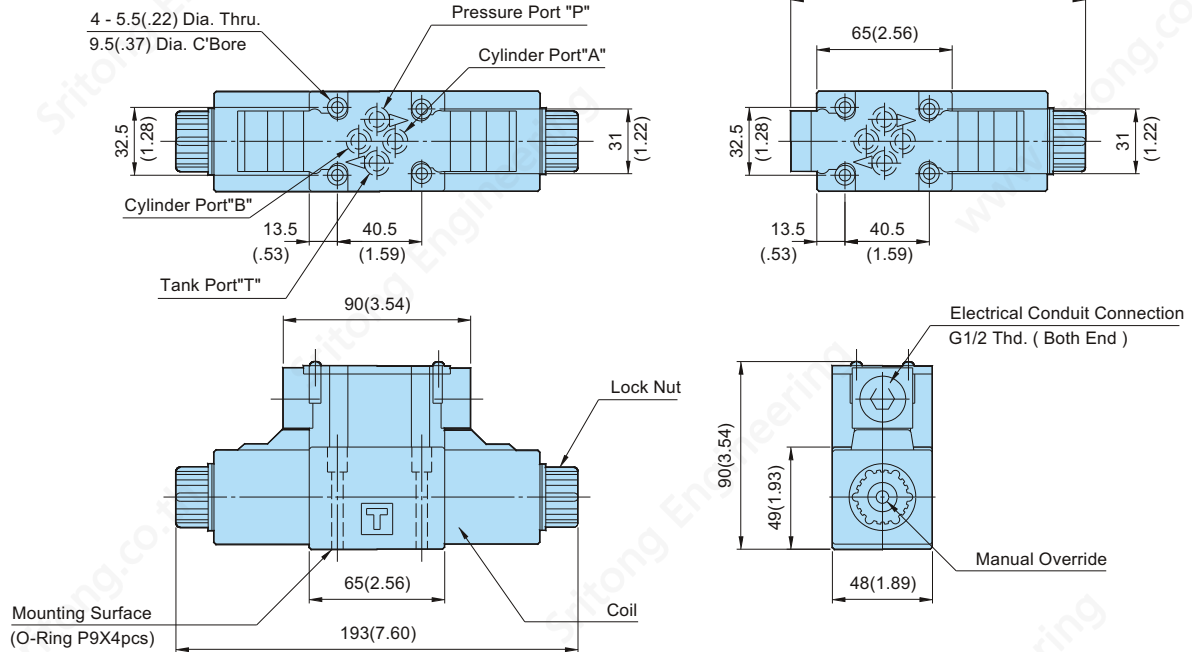
DIMENSIONS

MILLIMETERS(INCHES)

A

DSG-01-AC

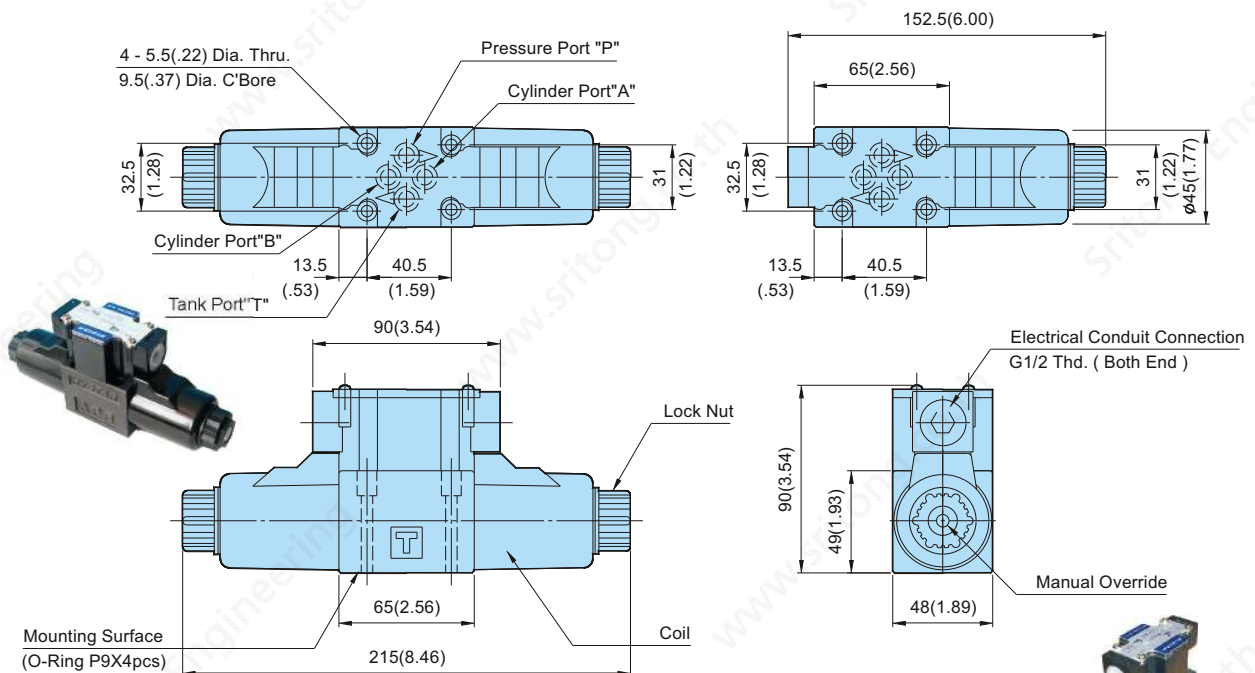
MOUNTING SURFACE: DSG-01-CETOP3
ISO 03-NFPAD03



Attachment Name	Description	Tightening Torque	Code
Soc. Hd. Cap Screw	M5 X45LgX4pcs	5-7 Nm	30
Soc. Hd. Cap Screw	10-24UNCX1-3/4"LgX4pcs	43-60 in.lbs	3090

DSG-01-DC/RAC

MOUNTING SURFACE: DSG-01-CETOP3
ISO 03-NFPAD03



Attachment Name	Description	Tightening Torque	Code
Soc. Hd. Cap Screw	M5 X45LgX4pcs	5-7 Nm	30
Soc. Hd. Cap Screw	10-24UNCX1-3/4"LgX4pcs	43-60 in.lbs	3090



"DSG" DIRECTIONAL VALVES

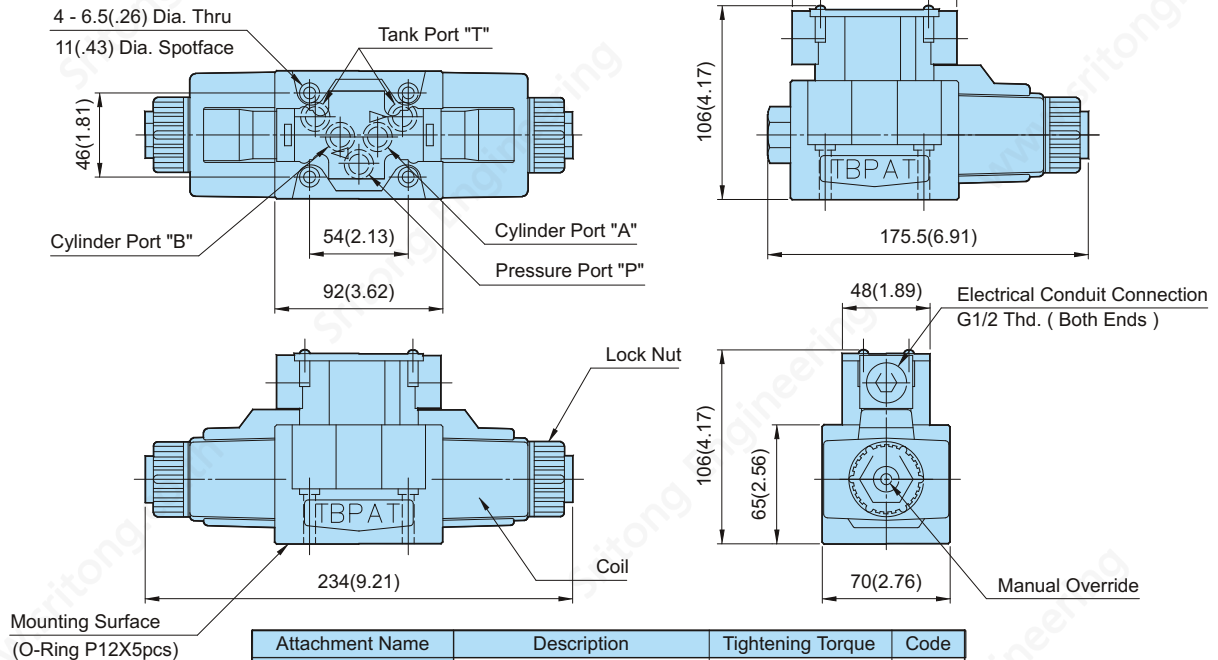
DIMENSIONS

MILLIMETERS(INCHES)

A

DSG-03-AC

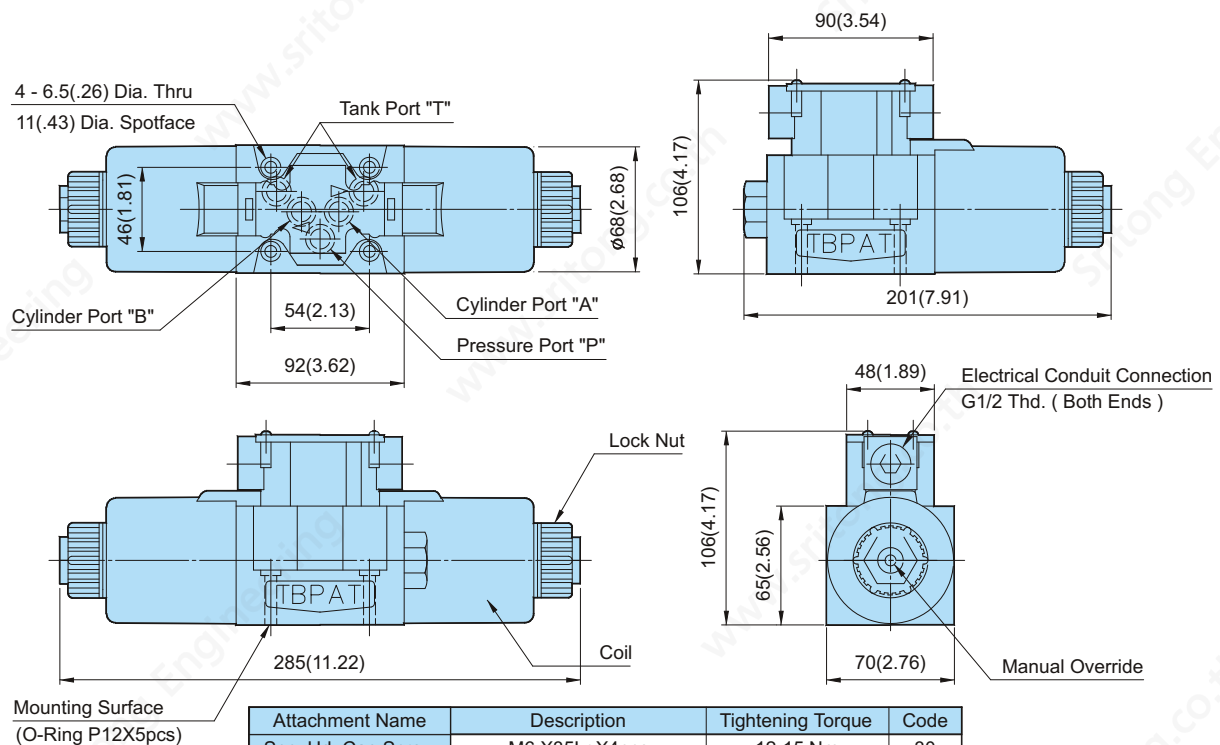
MOUNTING SURFACE:DSG-03-CETOP5
ISO 05-NFPAD05



Attachment Name	Description	Tightening Torque	Code
Soc. Hd. Cap Screw	M6 X35LgX4pcs	12-15 Nm	30
Soc. Hd. Cap Screw	1/4-20UNCX1-1/2"LgX4pcs	105-130 in.lbs	3090

DSG-03-DC/RAC

MOUNTING SURFACE:DSG-03-CETOP5
ISO 05-NFPAD05



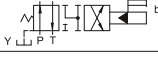
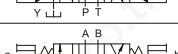
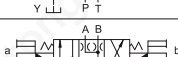
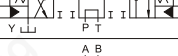
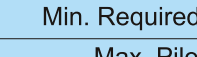
Attachment Name	Description	Tightening Torque	Code
Soc. Hd. Cap Screw	M6 X35LgX4pcs	12-15 Nm	30
Soc. Hd. Cap Screw	1/4-20UNCX1-1/2"LgX4pcs	105-130 in.lbs	3090



"DSHG" DIRECTIONAL VALVES

MODEL NO SPECIFICATIONS (Solenoid Controlled Pilot Operated Directional Valves)

A

Spool Type & Graphic Symbols		Rated Flow Capacity -Maximum Flow Capacity							
SYMBOLS	MODEL NO	DSHG-01	DSHG-03	DSHG-04	DSHG-06	DSHG-10			
	DSHG-2B2- **	~40 lpm (~10.6USgpm)	60~160 lpm (15.9~42.3USgpm)	135~300 lpm (35.7~79.3USgpm)	310~500 lpm (82~132USgpm)	570~1100 lpm (150~291USgpm)			
	DSHG-2B3- **								
	DSHG-2B4- **								
	DSHG-2N2- **								
	DSHG-2N3- **								
	DSHG-3C2- **								
	DSHG-3C3- **								
	DSHG-3C4- **								
	DSHG-3C40- **								
	DSHG-3C7- **								
	DSHG-3C9- **								
	DSHG-3C10- **								
	DSHG-3C11- **								
	DSHG-3C12- **								
	DSHG-3C5- **	~40 lpm (~10.6USgpm)	60~160 lpm (15.9~42.3USgpm)	245~280 lpm (64.8~74.5USgpm)	230~450 lpm (60.8~120USgpm)	570~950 lpm (150~250USgpm)			
	DSHG-3C6- **								
	DSHG-3C60- **								
Max. Operating Pressure (bar)		315 (4500 PSI)							
Min. Required Pilot Pressure (bar)		8 (114 PSI)							
Max. Pilot Pressure (bar)		250 (3600 PSI)							
Permissible Back Pressure (T) (bar) Ext. Drain		210 (3000 PSI)							
Permissible Back Pressure (T) (bar) Int. Drain		160 (2300 PSI)							
Weight (Kgs)	Double Solenoid	3.5	7.2	8.9	12.8	45.4			
	Single Solenoid	2.9	6.6	8.3	12.2	44.8			
Switching Frequency (times/min)		120	120	120	120	110			
Hydraulic Fluids		Use Hydraulic Fluids Equivalent to ISO VG32 or VG46							
Operating Temperature Range Recommended (°C)		-15 ~ +70 (+5 ~ +160°F)							
Operating Viscosity (cSt)		15 ~ 400 (80 ~ 1800SSU)							
Filtration		25 Microns Absolute or Finer							



"DSHG" DIRECTIONAL VALVES

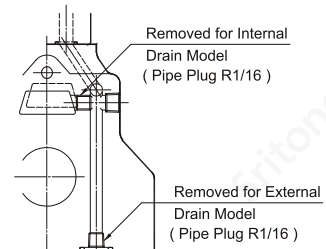
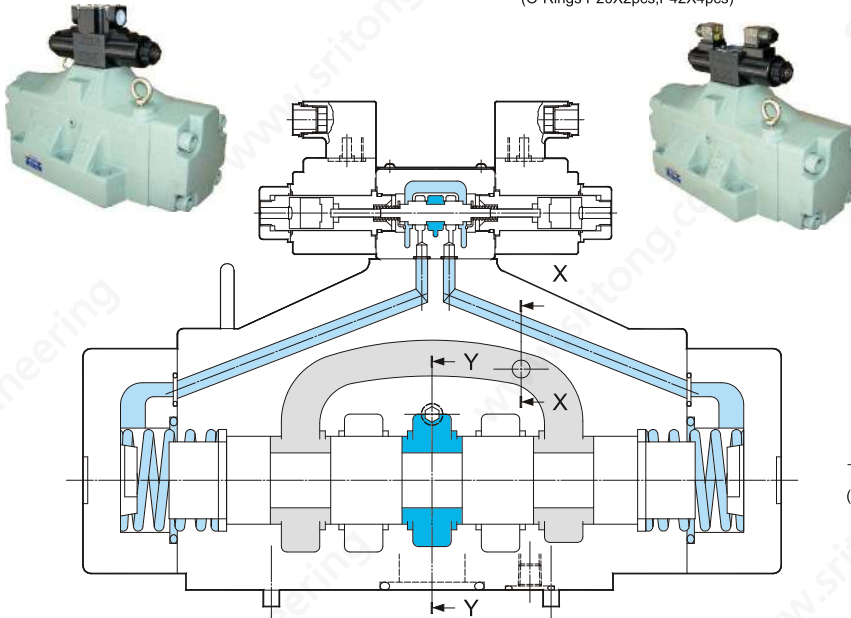
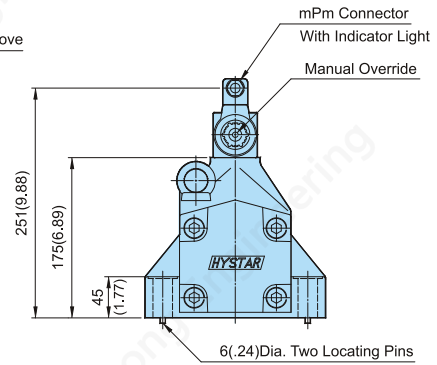
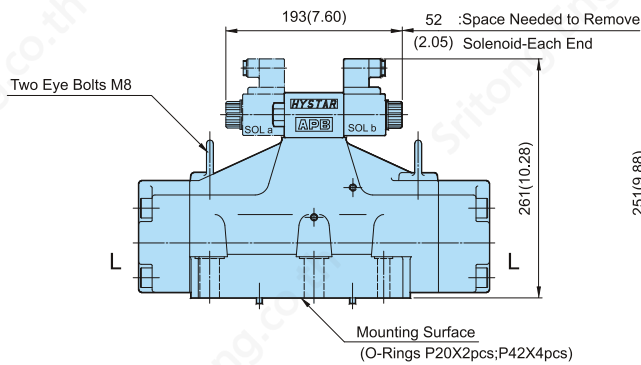
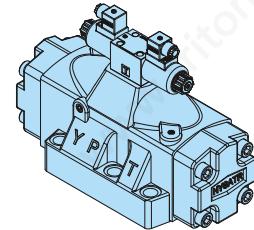
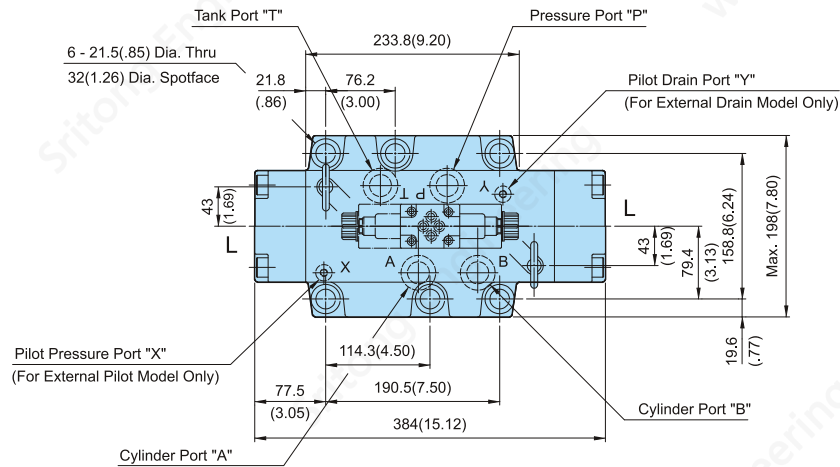
DIMENSIONS

MILLIMETERS(INCHES)

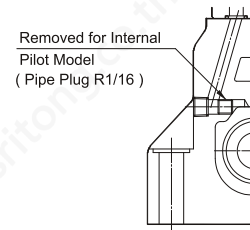
A

10(1-1/4")(S)DSHG-***-10

MOUNTING SURFACE: DSHG-10-CETOP10
ISO 10-NFPAD10



Section X-X



Section Y-Y

Attachment Name	Description	Tightening Torque	Code
Soc. Hd. Cap Screw	M20X75LgX6pcs	473-585 Nm	30
Soc. Hd. Cap Screw	3/4-10UNCX3"Lg X6pcs	4106-5078 in.lbs	3090