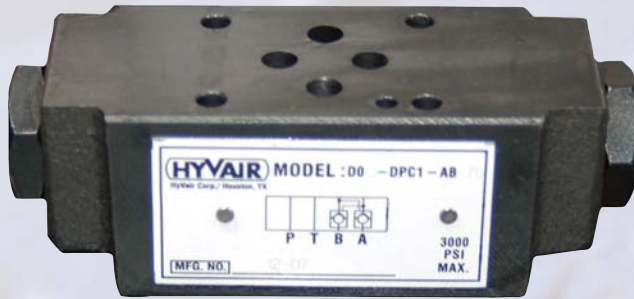




INDUSTRIAL FLUID POWER COMPONENTS  
AND SYSTEMS

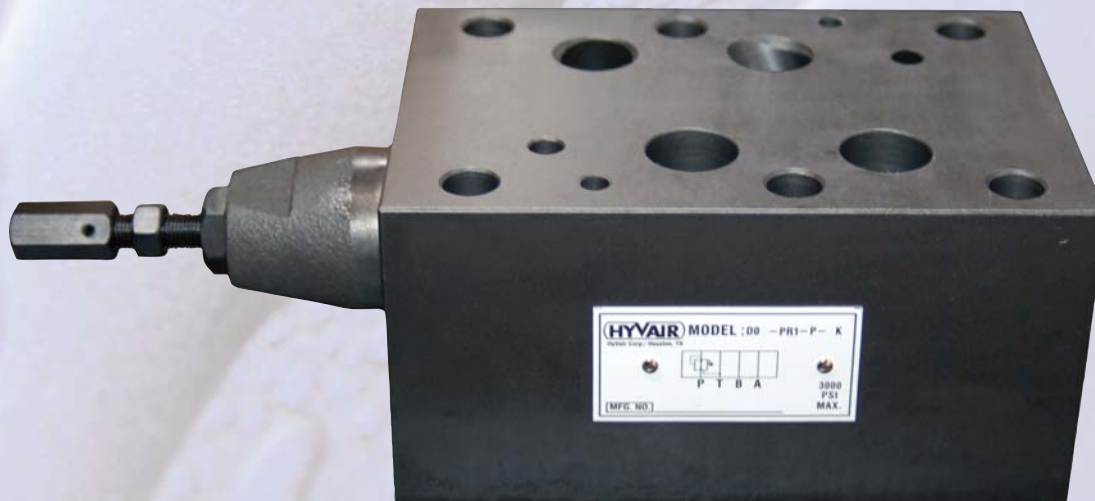
# D03, D05 & D08 SERIES

## Modular/ Stackable Valves



D03-DPC1-AB70

D05-SQ1-B-1K



D08-PR1-P-3K

## Features

- Rugged Steel Body Designs:** Designed for high cycle and quick response applications
- Uniform Height:** Valve body thickness is the same for each series and provides a clean, neat uniform appearance. This also reduces the number of bolt kits.
- Better Performance:** Modular valving eliminates leaky connections, reduces plumbing costs and places controls together.
- Space Savings:** Manifold mounted control circuits greatly reduce space requirements from conventional line mounted valves.
- Adjustment:** Hand knobs with locknuts provided standard- tools are not required for adjustments.

D08-DPC1-AB



D05-POR1-PT

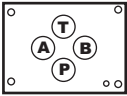
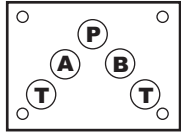
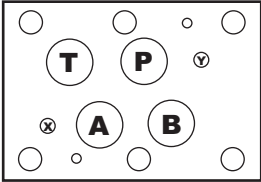
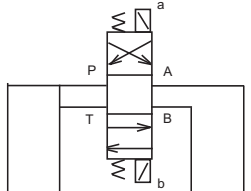















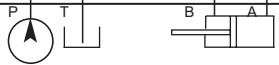


D03-FC1-AB-MO

## Specifications

Size	D03	D05	D08
<b>Mounting Surfaces: General Patterns</b>			
<b>Mounting Surface</b>	NFPA T3.5.1.MR1-D03	T3.5.1.MR1-D05	T3.5.1.MR1-D08
	ISO ISO 4401-03	ISO 4401-05	ISO 4401-08
<b>Nominal Flow Rates*</b>	5 gpm (19 lpm)	12 gpm (45 lpm)	50 gpm (190 lpm) 35 gpm (130 lpm) for PR1 & DPC1
<b>Maximum Pressure</b>	3000 psi (210 bar)		
<b>Operating Conditions</b>	Working Temperature	40- 160° F (5- 70°C)	
	Operating Viscosity	80- 300 SUS (17- 65 cSt)	
	Max. Start-up Viscosity	1500 SUS (315 cSt)	
	Filtration	25 micron or less, (ISO 18/15)	
	Recommended Fluids	Petroleum Based Fluids- ISO VG32-68, Most Vegetable Oils	

## Common Models

 <p><b>D03 Series</b></p>	 <p><b>D05 Series</b></p>	 <p><b>D08 Series</b></p>	<p><b>Function</b></p>	
D03-PR1-B-*K	D05-PR1-B-*K	N/A	Pressure Reducing B Port	
D03-SPC1-B-70	D05-SPC1-B-70	N/A	Single Pilot Check B Port	
D03-SPC1-A-70	D05-SPC1-A-70	N/A	Single Pilot Check A Port	
D03-DPC1-AB-70	D05-DPC1-AB-70	D08-DPC1-AB-70	Double Pilot Check A & B Ports	
D03-POR1-ABBA-*K	D05-POR1-ABBA-*K	N/A	Double P.O. Relief B to A & A to b (Cross Port)	
D03-SQ1-B-*K	D05-SQ1-B-*K	N/A	Sequence Valve B Port	
D03-SQ1-A-*K	D05-SQ1-A-*K	N/A	Sequence Valve A Port	
D03-POR1-BT-*K	D05-POR1-BT-*K	N/A	Pilot Operated Relief B to T Port	
D03-POR1-AT-*K	D05-POR1-AT-*K	N/A	Pilot Operated Relief A to T Port	
D03-POR1-ATBT-*K	D05-POR1-ATBT-*K	N/A	Double P.O. Relief A to T & B to T	
D03-FC1-AB-MO	D05-FC1-AB-MO	D08-FC1-AB-MO	Meter Out Flow Control A & B Ports	
D03-N1-P	D05-N1-P	D08-NC1-P (w/ Check)	Needle Valve P Port	
D03-PR1-P-*K (6 gpm max.)	D05-PR1-P-*K (12 gpm max.)	D08-PR1-P-*K	Pressure Reducing P Port	
D03-C1-P-7	D05-C1-P-7	D08-NC1-P (w/needle valve)	Check Valve P Port	
D03-POR1-PT-*K	D05-POR1-PT-*K	D08-POR1-PT-*K	Pilot Operated Relief P to T Port	
SD03- MD03-	SD05- MD05-	SD08- MD08-	Subplate/ Manifold	

\*= 1K (120-1000 psi) or -3K (500-3000 psi) adjustment

## Ordering Information

**D03 - PR 1 - P - 1K - H**

Size	Function	Design Code	Location/ Flow Path	Function
D03	<b>C</b> = Check		<b>A</b> = A port	<b>omit</b> = Not Applicable
D05	<b>CB</b> = Counter Balance		<b>B</b> = B port	<b>7</b> = 7 psi cracking
D08	<b>DPC</b> = Double Pilot Check		<b>AB</b> = A and B	<b>70</b> = 70 psi cracking
	<b>DR</b> = Direct Acting Relief		<b>P</b> = P port	<b>.5K</b> = Adj. 50-500
	<b>EFC</b> = Elect-Prop. Flow Control		<b>T</b> = T port	<b>1K</b> = Adj. 120-1000
	<b>FC</b> = Flow Control		<b>PT</b> = P to T port	<b>3K</b> = Adj. 500-3000
	<b>N</b> = Needle Valve		<b>AT</b> = A to T port	<b>MI</b> = Meter in
	<b>NC</b> = Needle w/ Check		<b>BT</b> = B to T port	<b>MO</b> = Meter out
	<b>PCFC</b> = Press Comp F. C.		<b>ATBT</b> = A to T and B to T port	
	<b>POR</b> = Pilot Operated Relief		<b>ABBA</b> = A to B and B to A	
	<b>PR</b> = Press Reducing			
	<b>SQ</b> = Sequence			
	<b>SPC</b> = Single Pilot Check			

D03-N1-P

Hex Adjuster:

(Hex size) 9/16" U.S.  
14 mm Metric



Shown with optional hex adjustment.

Hex Adjuster  
(No Knob)

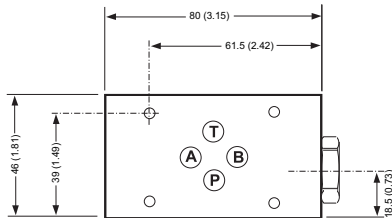
## Dimensional Data

### Series D03-C1-P Check Valve

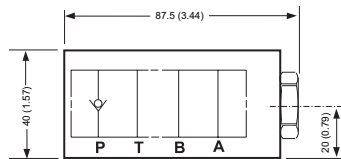


Units: mm/ (Inch)  
Weight: 2.9 lbs/ 1.15 kgs

Solenoid Valve Side



Subplate/ Manifold Side

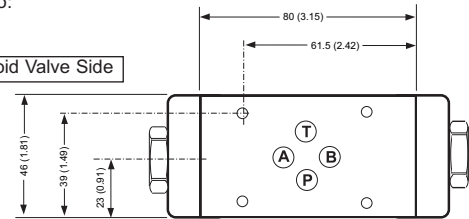


### Series D03-DPC1-AB-70 Double Pilot Operated Check Valve

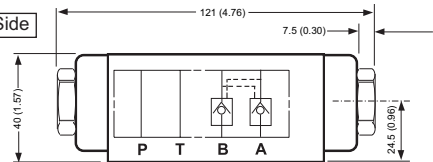
Units: mm/ (Inch)  
Weight: 2.9 lbs/ 1.3 kgs

Pilot Ratio:  
2.4:1

Solenoid Valve Side



Subplate/ Manifold Side

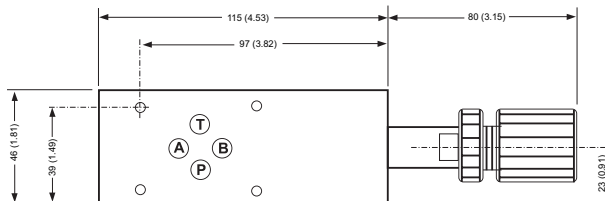


Note: Dimensions are identical for D03-SPC1 (Single Pilot Check)-  
subtract left or right hex end cap.

### Series D03-POR1-PT Pilot Operated Relief Valve

Note- Dimensions are identical for:  
D03-POR1-AT  
D03-POR1-BT

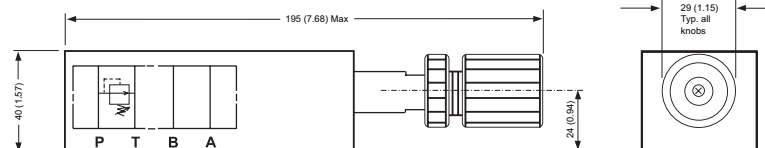
Solenoid Valve Side



Note- Add this dimension  
to left side for models:  
D03-POR1-ABBA  
D03-POR1-ATBT

Units: mm/ (Inch)  
Weight: 3.5 lbs/ 1.6 kgs

Subplate/ Manifold Side



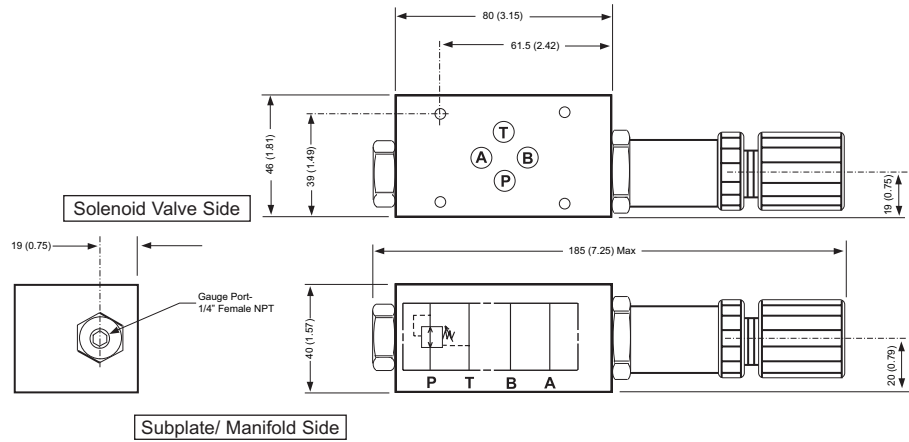
### Dimensional Data

#### Series D03-PR1-P Pressure Reducing Valve

Note- Dimensions are identical for:  
D03-PR1-A  
D03-PR1-B



Units: mm/ (Inch)  
Weight: 2.9 lbs/ 1.3 kgs

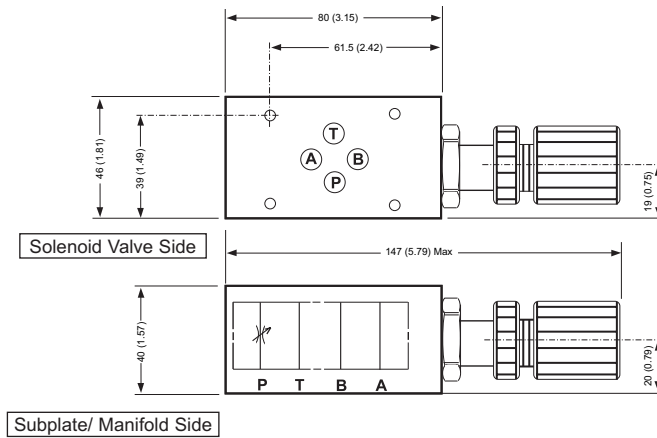


#### Series D03-N1-P Needle Valve



Shown with standard hand knob.

Units: mm/ (Inch)  
Weight: 2.42 lbs/ 1.1 kgs

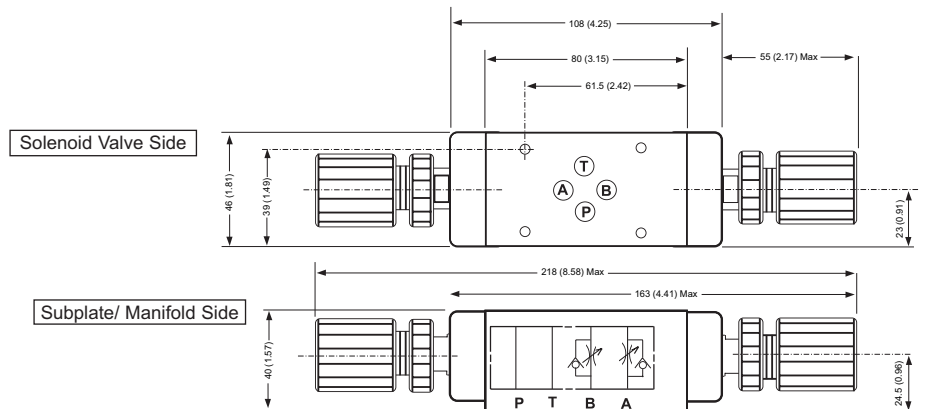


#### Series D03-FC1-AB-MO Flow Control

Note- Dimensions are identical for:  
D03-FC1-AB-MI



Units: mm/ (Inch)  
Weight: 2.8 lbs/ 1.25 kgs



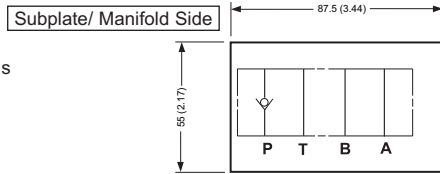
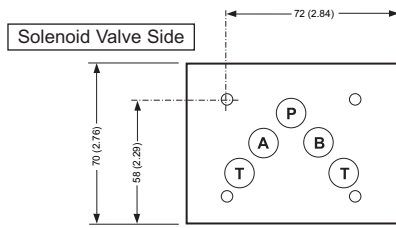
Note: Dimensions are identical for single flow control valve- subtract left or right adjusting knob dimension.



# D03, D05 & D08 Series Modular/ Stackable Valves

## Dimensional Data

### Series D05-C1-P Check Valve



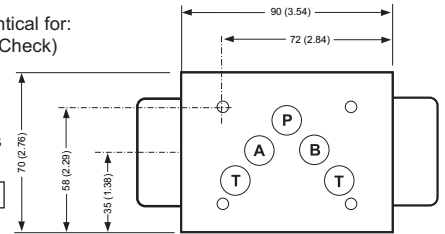
Units: mm/ (Inch)  
Weight: 5.28 lbs/ 2.4 kgs

### Series D05-DPC1-AB-70 Double Pilot Operated Check Valve

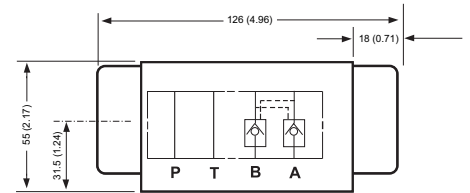
Note- Dimensions are identical for:  
D05-SPC1 (Single Pilot Check)

Units: mm/ (Inch)  
Weight: 7.48 lbs/ 3.4 kgs

Solenoid Valve Side



Subplate/ Manifold Side



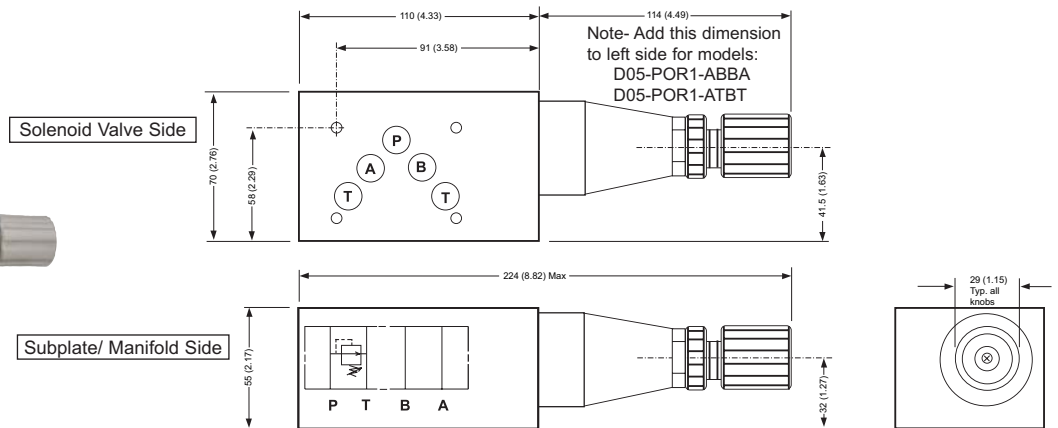
Pilot Ratios:  
16.7:1 1st stage  
27: 2nd stage

### Series D05-POR1-PT Pilot Operated Relief Valve

Note- Dimensions are identical for:  
D05-POR1-AT  
D05-POR1-BT



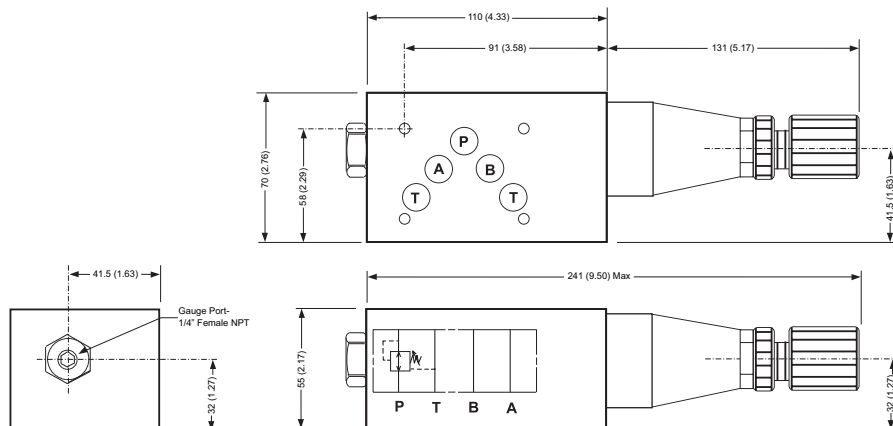
Units: mm/ (Inch)  
Weight: 7.7 lbs/ 3.5 kgs



### Series D05-PR1-P Pressure Reducing Valve

Note- Dimensions are identical for:  
D05-PR1-A

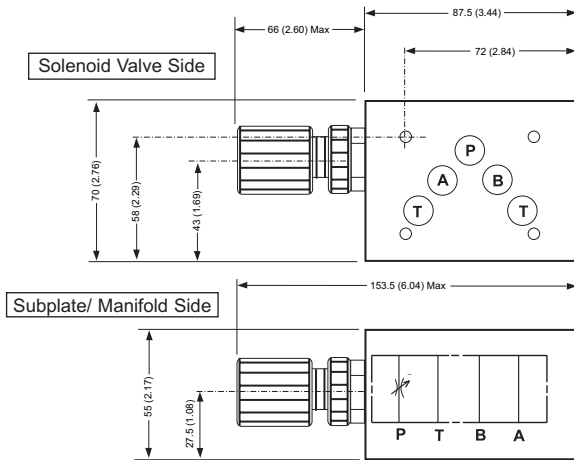
Units: mm/ (Inch)  
Weight: 7.7 lbs/ 3.5 kgs



### Dimensional Data

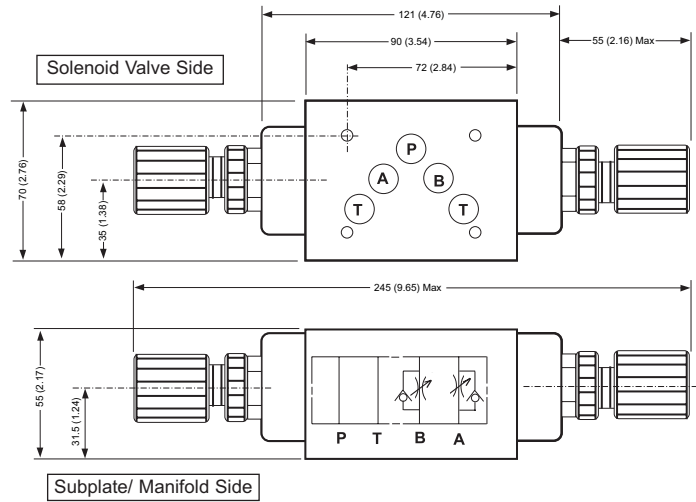
**Series D05-N1-P**  
Needle Valve

Units: mm/ (Inch)  
Weight: 6.2 lbs/ 2.8 kgs



**Series D05-FC1-AB-MO**  
Flow Control

Units: mm/ (Inch)  
Weight: 7.7 lbs/ 3.5 kgs

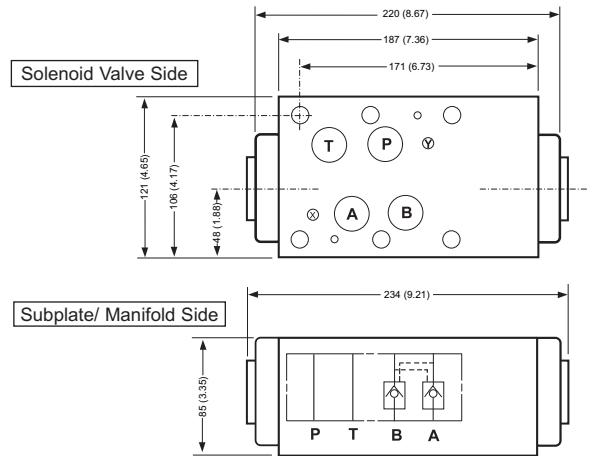


Note: Dimensions are identical for single flow control- subtract left or right adjusting knob dimension.

**Series D08-DPC1-AB-70**  
Double Pilot Operated Check Valve

**Series D08-C1-P**  
Check Valve

Units: mm/ (Inch)  
Weight: 27.5 lbs/ 12.5 kgs



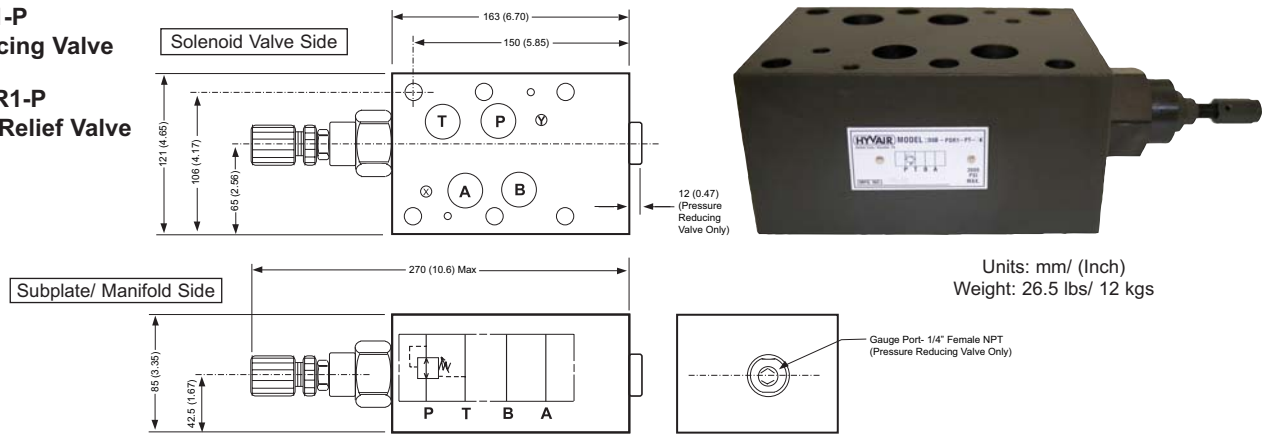


# D03, D05 & D08 Series Modular/ Stackable Valves

## Dimensional Data

**Series D08-PR1-P  
Pressure Reducing Valve**

**Series D08-POR1-P  
Pilot Operated Relief Valve**

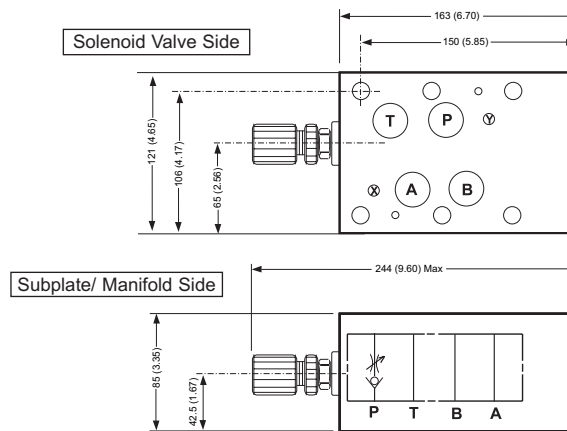


Units: mm/ (Inch)  
Weight: 26.5 lbs/ 12 kgs

**Series D08-NC1-P  
Needle Valve w/ Check**



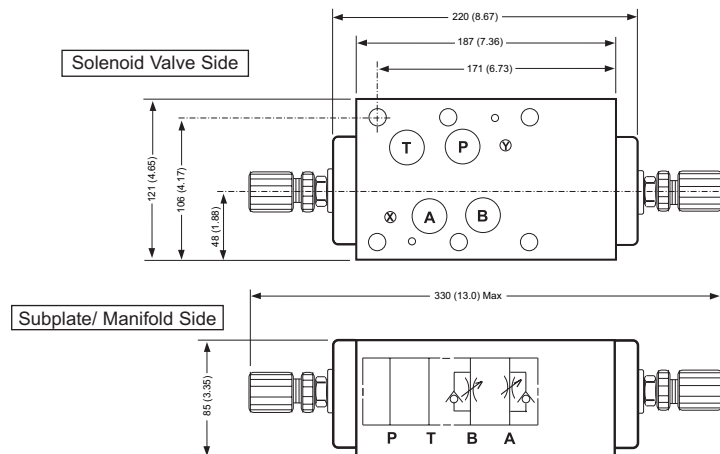
Units: mm/ (Inch)  
Weight: 24.2 lbs/ 11 kgs



**Series D08-FC1-AB-MO  
Flow Control**



Units: mm/ (Inch)  
Weight: 24.4 lbs/ 12.2 kgs



Note: Dimensions are identical for single flow control or needle valve- subtract left or right adjusting knob dimension.