



INDUSTRIAL FLUID POWER COMPONENTS
AND SYSTEMS

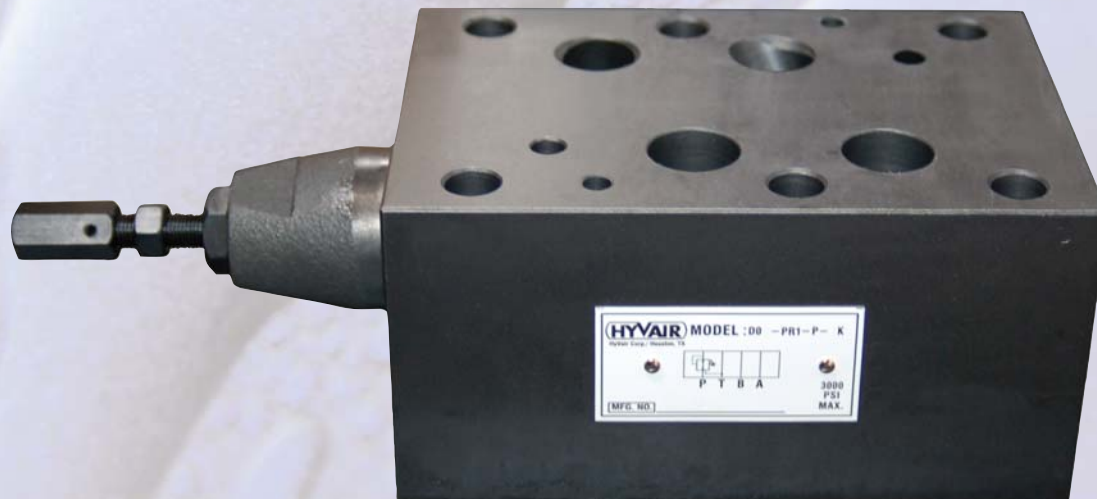
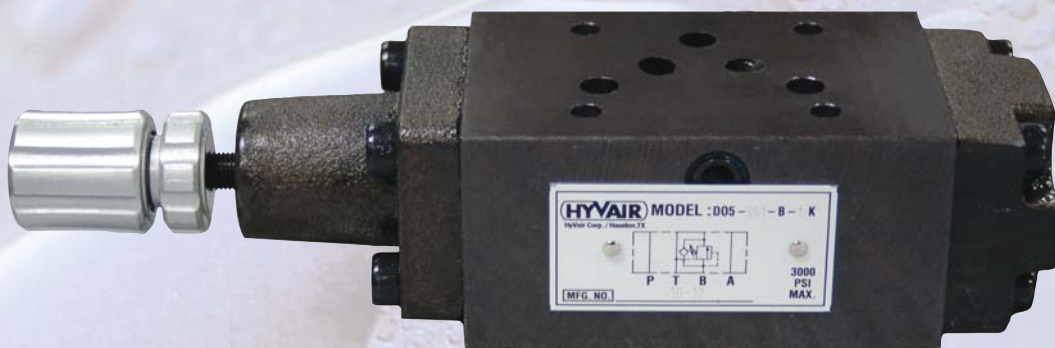
D03, D05 & D08 SERIES

Modular/ Stackable Valves



D03-DPC1-AB70

D05-SQ1-B-1K



D08-PR1-P-3K



D03, D05 & D08 Series

Modular/ Stackable Valves

Features

1. **Rugged Steel Body Designs:** Designed for high cycle and quick response applications
2. **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.
3. **Better Performance:** Modular valving eliminates leaky connections, reduces plumbing costs and places controls together.
4. **Space Savings:** Manifold mounted control circuits greatly reduce space requirements from conventional line mounted valves.
5. **Adjustment:** Hand knobs with locknuts provided standard- tools are not required for adjustments.

D08-DPC1-AB



D05-POR1-PT

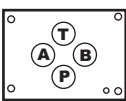
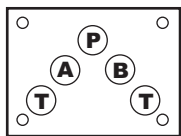
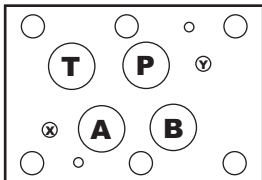
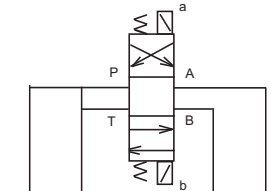


D03-FC1-AB-MO

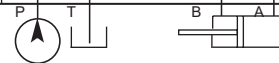
Specifications

Size	D03	D05	D08
Mounting Surfaces: General Patterns			
Mounting Surface	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
Nominal Flow Rates*	5 gpm (19 lpm)	12 gpm (45 lpm)	50 gpm (190 lpm) 35 gpm (130 lpm) for PR1 & DPC1
Maximum Pressure	3000 psi (210 bar)		
Operating Conditions	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

 D03 Series	 D05 Series	 D08 Series	Function	
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	MeterOut 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- ⇨ See subplates and multiple valve manifolds MD03-	SD05- ⇨ See subplates and multiple valve manifolds MD05-	SD08- ⇨ See subplates and multiple valve manifolds 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	C = Check		A = A port	omit = Not Applicable
D05	CB = Counter Balance		B = B port	7 = 7 psi cracking
D08	DPC = Double Pilot Check		AB = A and B	70 = 70 psi cracking
	DR = Direct Acting Relief		P = P port	.5K = Adj. 50-500
	EFC = Elect-Prop. Flow Control		T = T port	1K = Adj. 120-1000
	FC = Flow Control		PT = P to T port	3K = Adj. 500-3000
	N = Needle Valve		AT = A to T port	MI = Meter in
	NC = Needle w/ Check		BT = B to T port	MO = Meter out
	PCFC = Press Comp F. C.		ATBT = A to T and B to T port	
	POR = Pilot Operated Relief		ABBA = A to B and B to A	
	PR = Press Reducing			
	SQ = Sequence			
	SPC = 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)

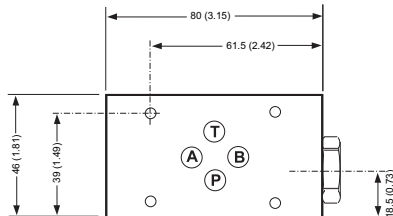
Dimensional Data

Series D03-C1-P Check Valve

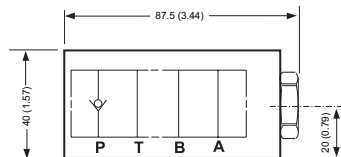


Units: mm/ (Inch)
Weight: 2.9 lbs/ 1.15 kgs

Solenoid Valve Side



Subplate/ Manifold Side

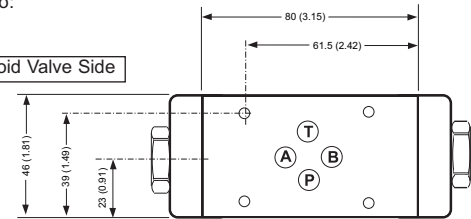


Series D03-DPC1-AB-70 Double Pilot Operated Check Valve

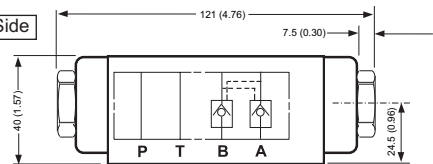
Units: mm/ (Inch)
Weight: 2.9 lbs/ 1.3 kgs

Pilot Ratio:
2.4:1

Solenoid Valve Side



Subplate/ Manifold Side

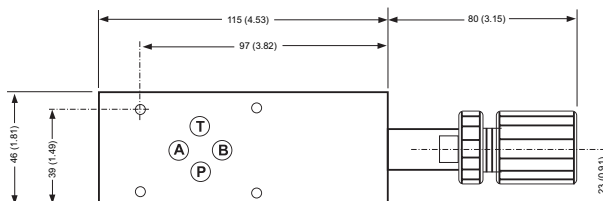


Note: Dimensions are identical for D03-SPC1 (Single Pilot Check)-
subtract left or right hex end cap.

Series D03-POR1-PT Pilot Operated Relief Valve

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

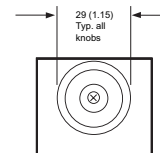
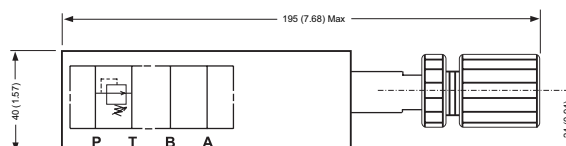
Solenoid Valve Side



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





D03, D05 & D08 Series Modular/ Stackable Valves

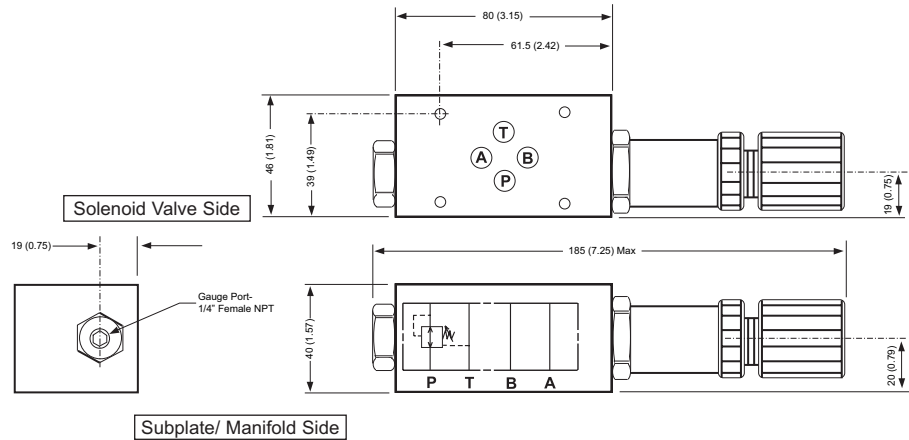
Dimensional Data

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

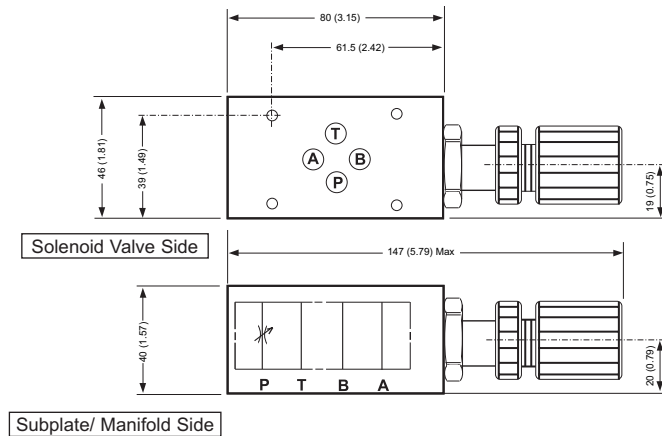


Series D03-N1-P Needle Valve



Shown with standard hand knob.

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

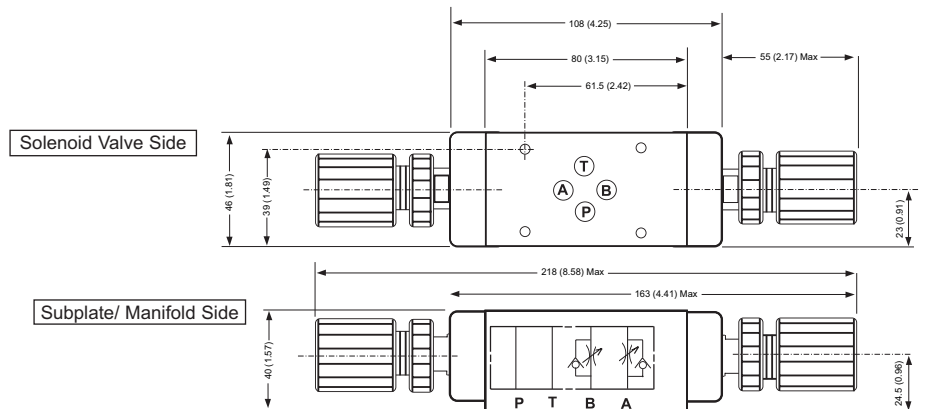


Series D03-FC1-AB-MO Flow Control

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



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



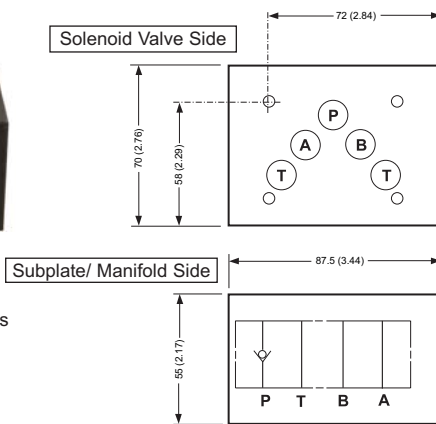
Note: Dimensions are identical for single flow control valve- subtract left or right adjusting knob dimension.

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

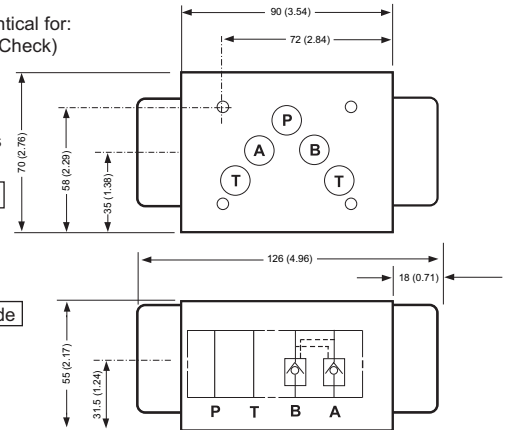
Note- Dimensions are identical for:
D05-SPC1 (Single Pilot Check)

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

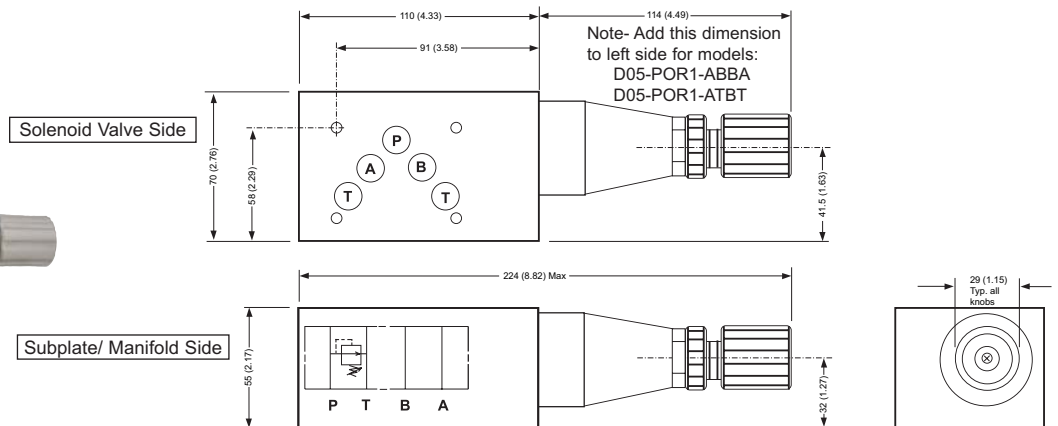


Series D05-POR1-PT Pilot Operated Relief Valve

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



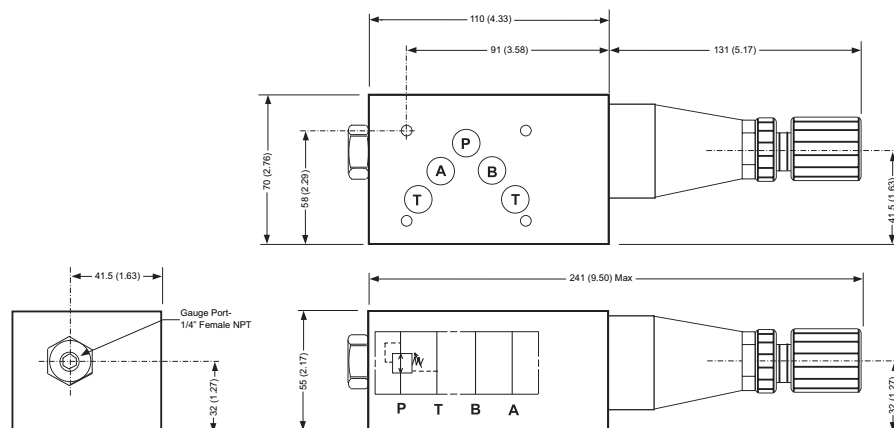
Units: mm/ (Inch)
Weight: 7.7 lbs/ 3.5 kgs



Series D05-PR1-P Pressure Reducing Valve

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

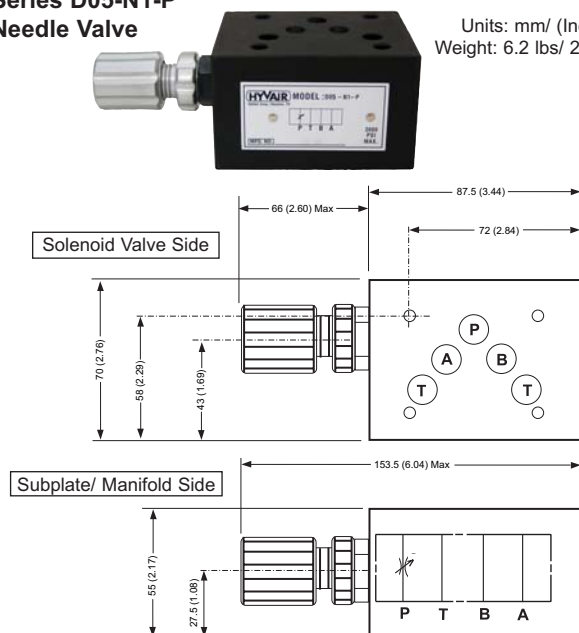
Units: mm/ (Inch)
Weight: 7.7 lbs/ 3.5 kgs



Dimensional Data

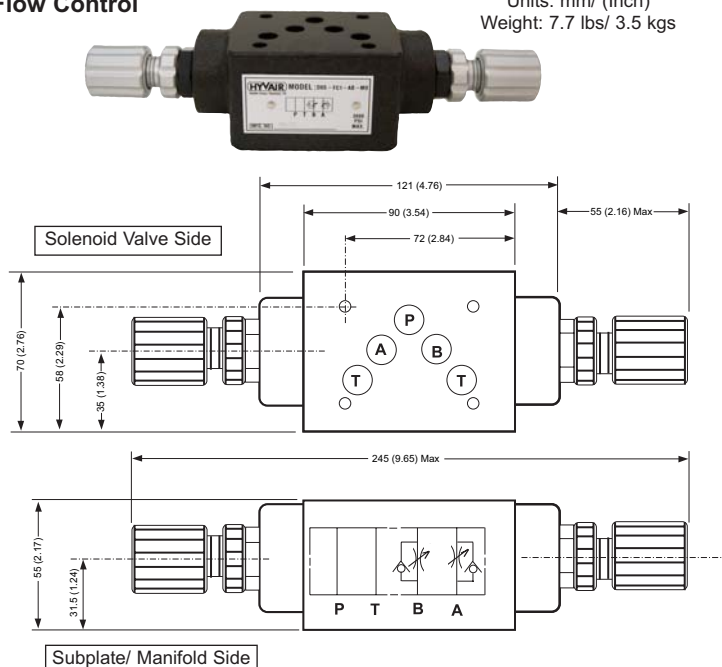
Series D05-N1-P Needle Valve

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

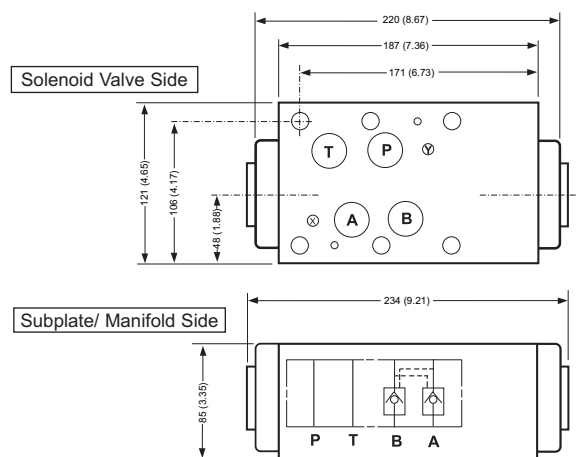


Note: Dimensions are identical for single flow control- subtract left or right adjusting knob dimension.

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



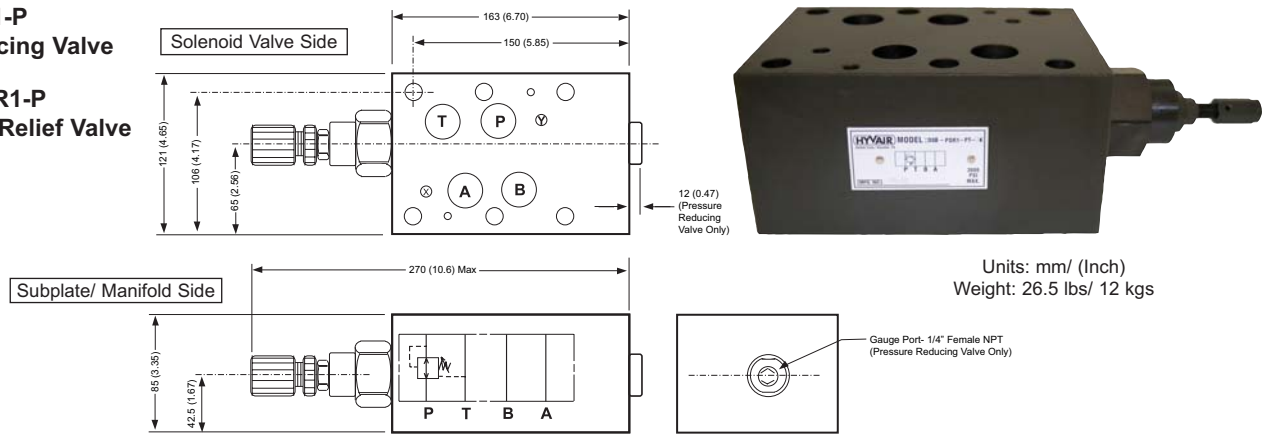


D03, D05 & D08 Series Modular/ Stackable Valves

Dimensional Data

Series D08-PR1-P Pressure Reducing Valve

Series D08-POR1-P Pilot Operated Relief Valve

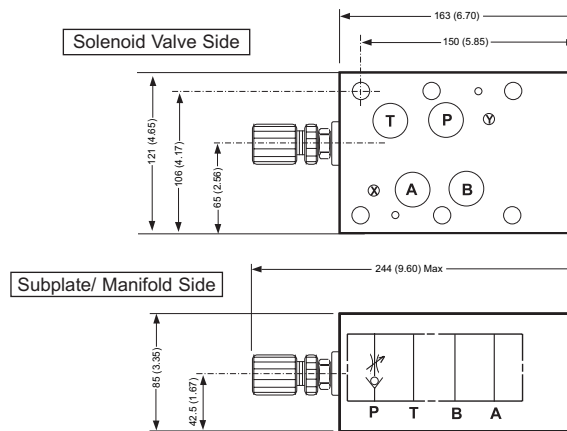


Units: mm/ (Inch)
Weight: 26.5 lbs/ 12 kgs

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.

