HYVAIR

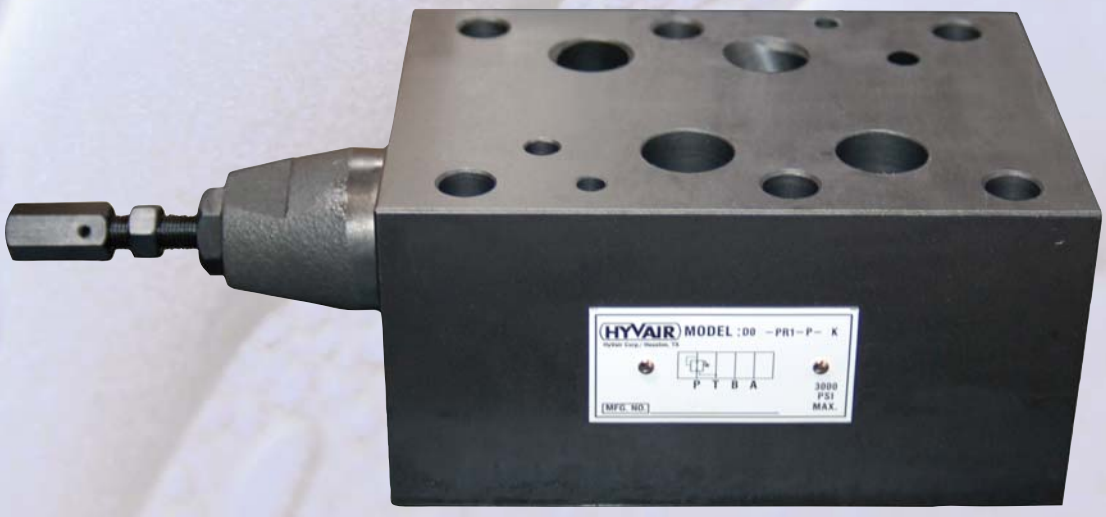
INDUSTRIAL FLUID POWER COMPONENTS AND SYSTEMS

D03, D05 & D08 SERIES

Modular/ Stackable Valves

D03-DPC1-AB70

D05-SQ1-B-1K



D08-PR1-P-3K

31341 Friendship Drive, Magnolia, TX 77355 • Tel.: 281-259-7768 Fax: 281-259-7249 • www.hyvair.com

D03, D05 & D08 Series

Modular/ Stackable Valves

Features

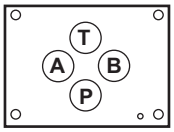
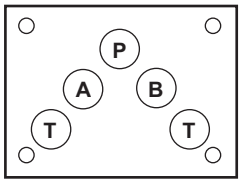
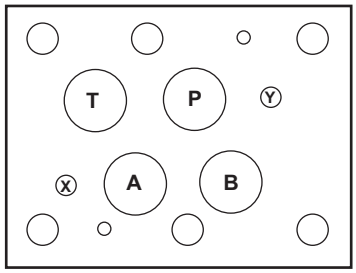
1. **Rugged Steel Body Designs:** Designed for high cycle and quick response applications
2. **Uniform Height:** Valve body thickness is the same for each series and provides a clean, neat uniform appearance. This also reduces the number of bolt kits.
3. **Better Performance:** Modular valving eliminates 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		

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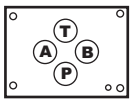
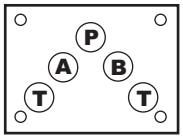
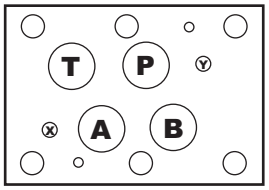
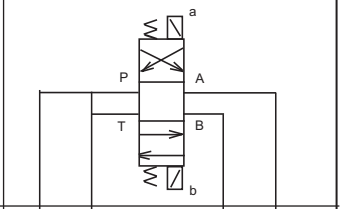
Common Models

 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-MD03- ⇨ See subplates and multiple valve manifolds	SD05-MD05- ⇨ See subplates and multiple valve manifolds	SD08-MD08- ⇨ See subplates and multiple valve manifolds	Subplate/ Manifold	

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

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Ordering Information

D03 - PR 1 - P - 1K - H

Size
D03
D05
D08

Function
C = Check
CB = Counter Balance
DPC = Double Pilot Check
DR = Direct Acting Relief
EFC = Elect-Prop. Flow Control
FC = Flow Control
N = Needle Valve
NC = Needle w/ Check
PCFC = Press Comp F. C.
POR = Pilot Operated Relief
PR = Press Reducing
SQ = Sequence
SPC = Single Pilot Check

Design Code

Location/ Flow Path
A = A port
B = B port
AB = A and B
P = P port
T = T port
PT = P to T port
AT = A to T port
BT = B to T port
ATBT = A to T and B to T port
ABBA = A to B and B to A

Function
omit = Not Applicable
7 = 7 psi cracking
70 = 70 psi cracking
.5K = Adj. 50-500
1K = Adj. 120-1000
3K = Adj. 500-3000
MI = Meter in
MO = Meter out

Hex Adjuster:

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

D03-N1-P

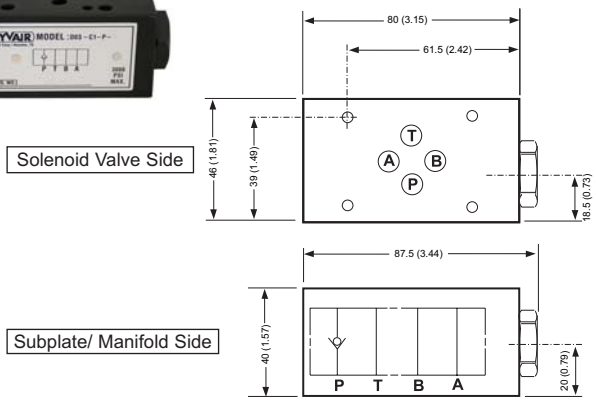
Shown with optional hex adjustment.

Hex Adjuster (No Knob)

Dimensional Data

Series D03-C1-P
Check Valve

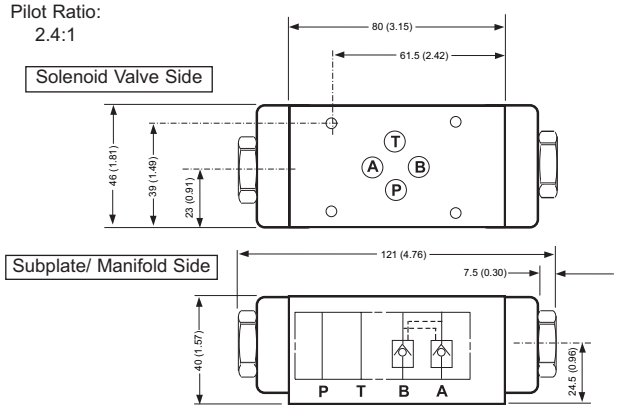
Units: mm/ (Inch)
Weight: 2.9 lbs/ 1.15 kgs



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

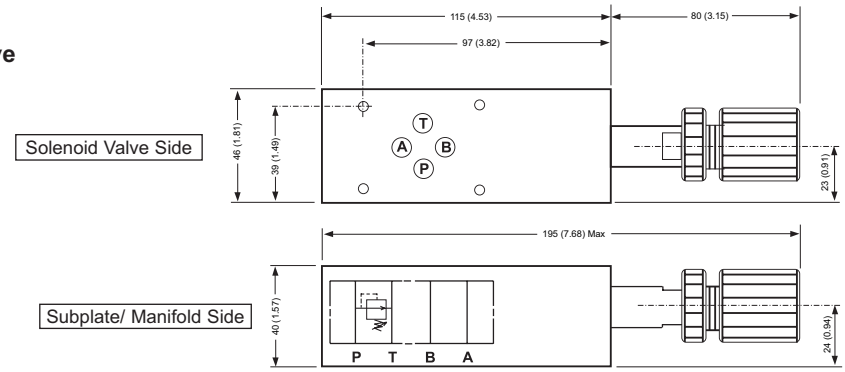


Note: Dimensions are identical for D03-SPC1 (Single Pilot Check)- subtract left or right hex end cap.

Series D03-POR1-PT
Pilot Operated Relief Valve

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

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



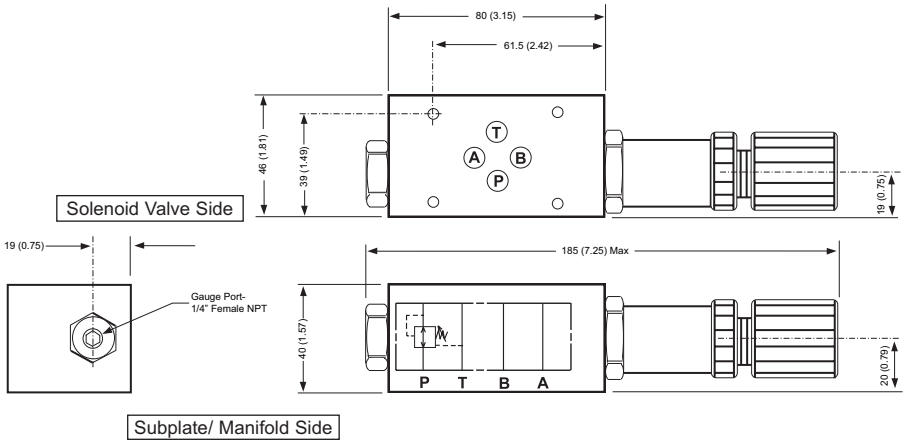
Note- Add this dimension to left side for models:
D03-POR1-ABBA
D03-POR1-ATBT

Dimensional Data

Series D03-PR1-P
Pressure Reducing Valve

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

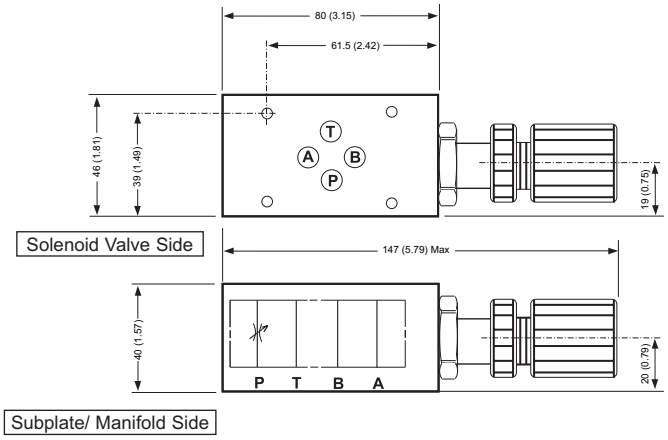
Units: mm/ (Inch)
Weight: 2.9 lbs/ 1.3 kgs



Series D03-N1-P
Needle Valve

Shown with standard hand knob.

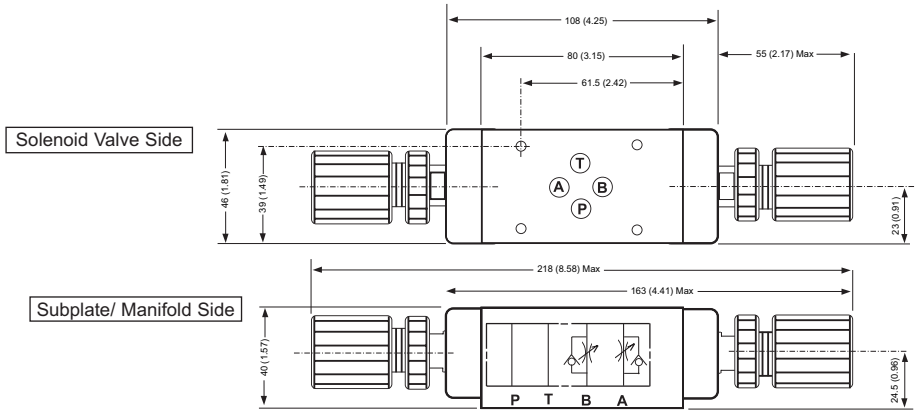
Units: mm/ (Inch)
Weight: 2.42 lbs/ 1.1 kgs



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

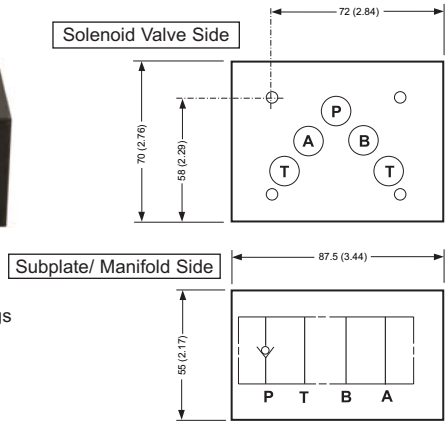


Note: Dimensions are identical for single flow control valve- subtract left or right adjusting knob dimension.

Dimensional Data

Series D05-C1-P
Check Valve

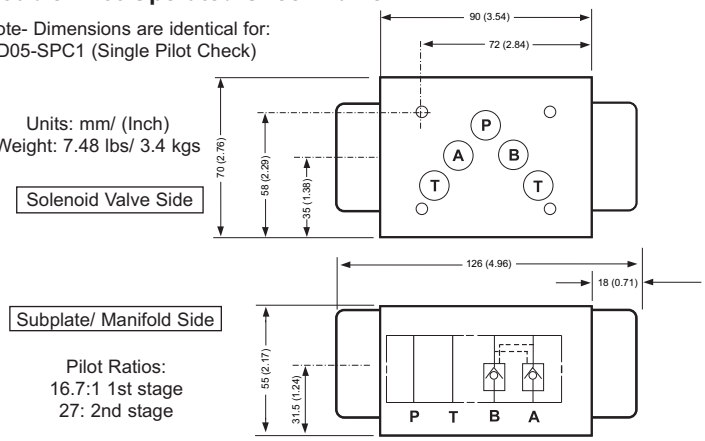
Units: mm/ (Inch)
Weight: 5.28 lbs/ 2.4 kgs



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

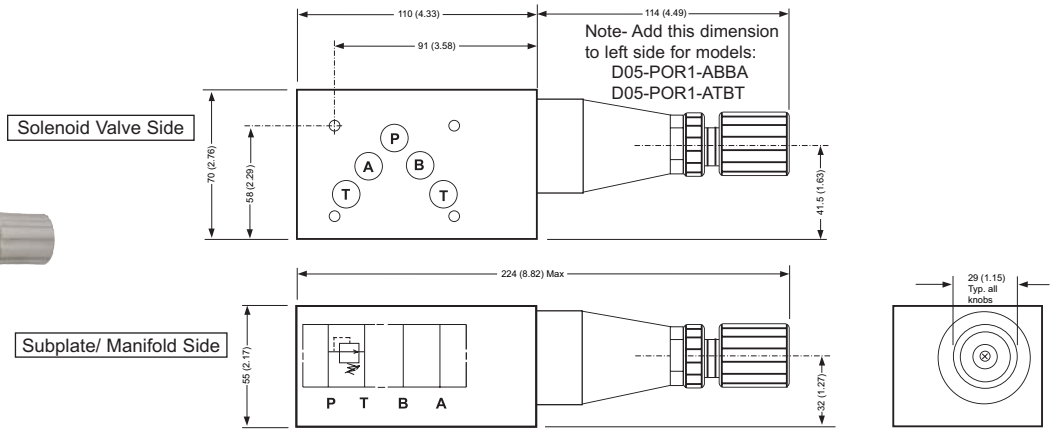


Pilot Ratios:
16.7:1 1st stage
27: 2nd stage

Series D05-POR1-PT
Pilot Operated Relief Valve

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

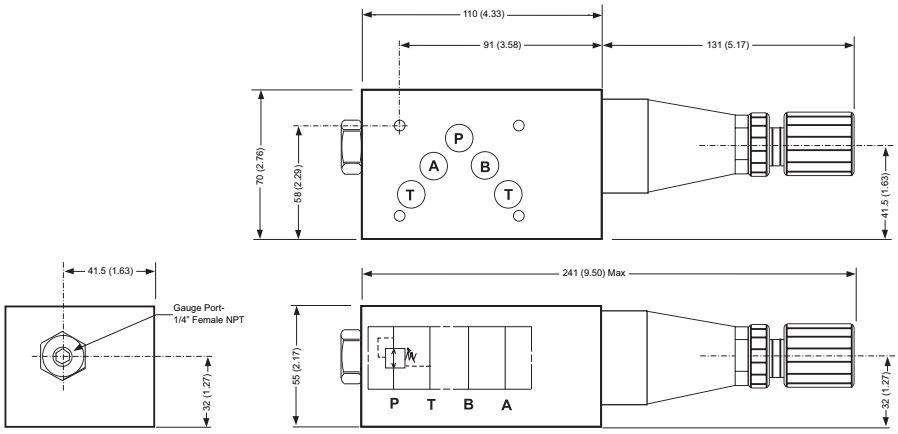
Units: mm/ (Inch)
Weight: 7.7 lbs/ 3.5 kgs



Series D05-PR1-P
Pressure Reducing Valve

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

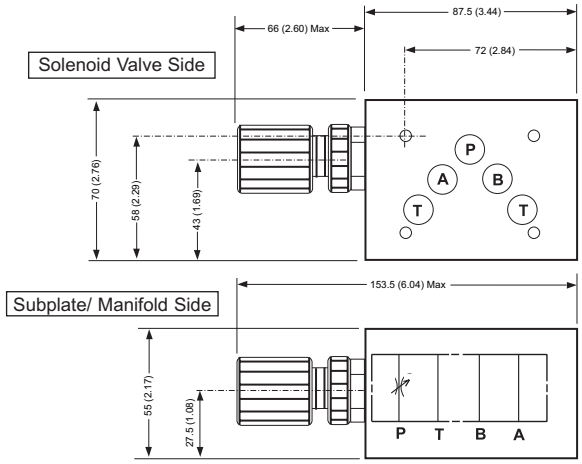
Units: mm/ (Inch)
Weight: 7.7 lbs/ 3.5 kgs



Dimensional Data

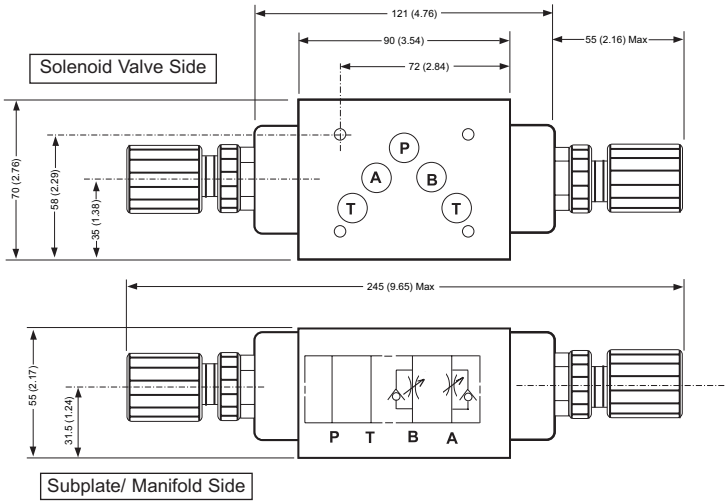
Series D05-N1-P
Needle Valve

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

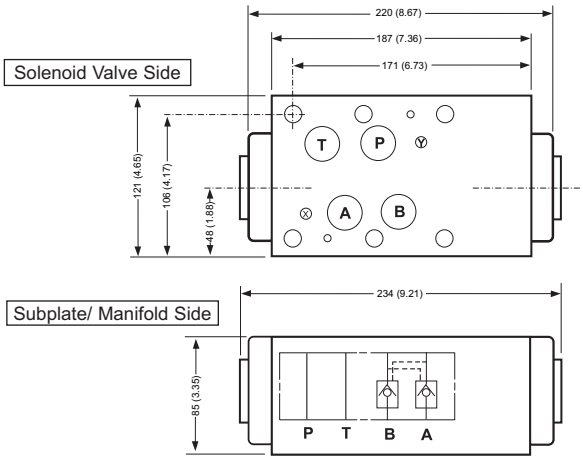


Note: Dimensions are identical for single flow control- subtract left or right adjusting knob dimension.

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

Series D08-C1-P
Check Valve

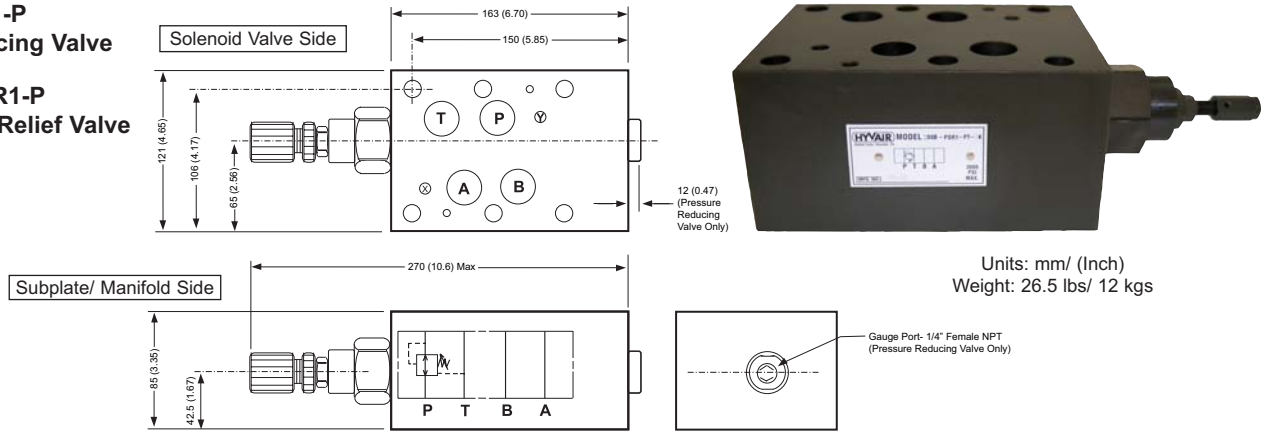
Units: mm/ (Inch)
Weight: 27.5 lbs/ 12.5 kgs



Dimensional Data

Series D08-PR1-P
Pressure Reducing Valve

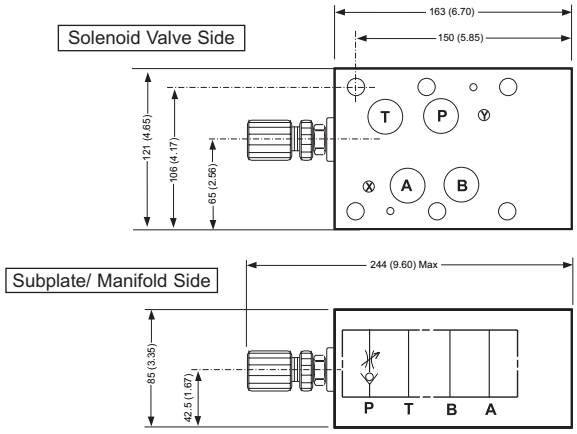
Series D08-POR1-P
Pilot Operated Relief Valve



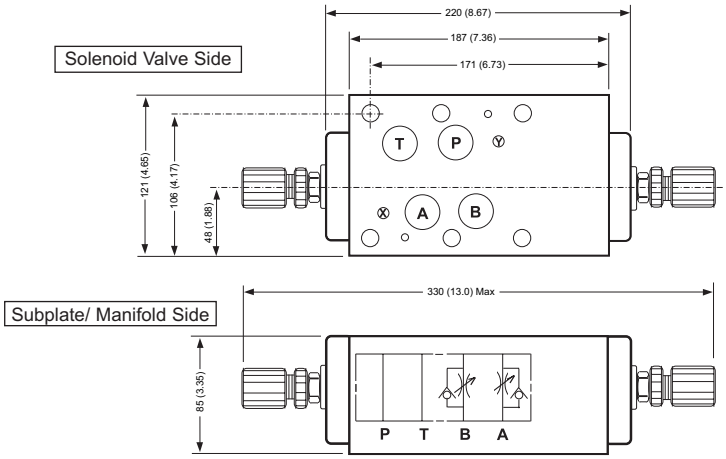
Units: mm/ (Inch)
Weight: 26.5 lbs/ 12 kgs

Series D08-NC1-P
Nedle 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.