

MODULAR VALVES

NFPA/ ISO STANDARDS - STACKABLE



NFPA SIZE: D03, D05 & D08



Modular Valves

FEATURES

- ✓ **Rugged Steel Body Design:** 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.

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		

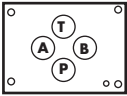
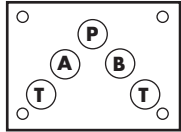
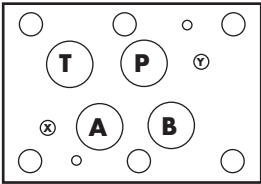
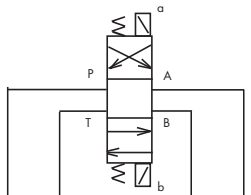















MODULAR VALVES

NFPA/ ISO STANDARDS - STACKABLE



NFPA SIZE: D03, D05 & D08

Common Models

 <p>D03 Series</p>	 <p>D05 Series</p>	 <p>D08 Series</p>	<p>Function</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- <small>⇒ See subplates and MD03_ multiple valve manifolds</small>	SD05- <small>⇒ See subplates and MD05_ multiple valve manifolds</small>	SD08- <small>⇒ See subplates and MD08_ multiple valve manifolds</small>	Subplate/ Manifold	

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



ORDERING INFORMATION



MODULAR VALVE PART NUMBERING SYSTEM:

D03-PR 1 -P-1K-H

Ex.: D03 size pressure reducing valve (series 1), "P" port, adj. 120-1000 psi.

Size	Code	Function
D03	C	Check
D05	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

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

Code	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
(No Knob)

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

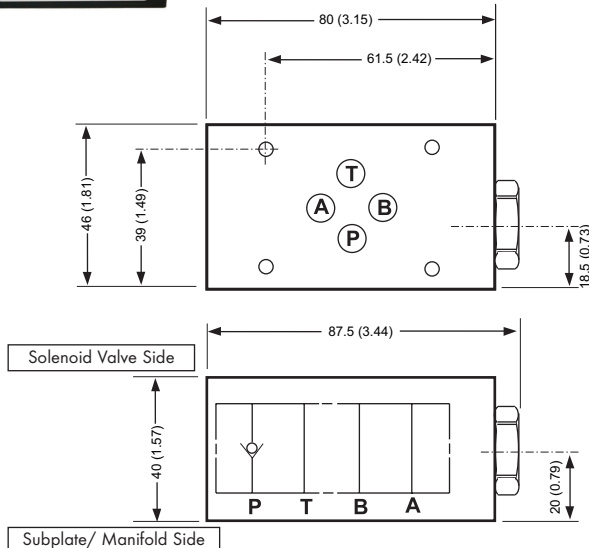
Shown with optional hex adjustment.

Dimensional Data

Series D03-C1-P
Check Valve

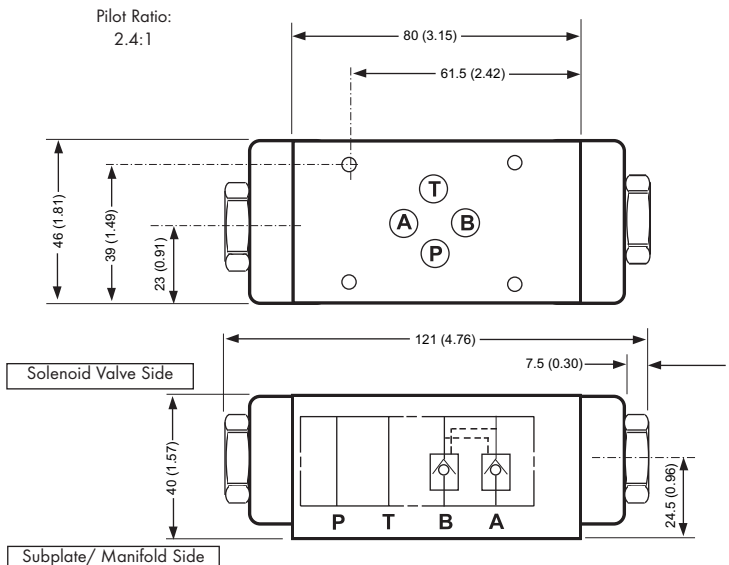


Units: mm/ (Inch)
Weight: 2.9 lbs/ 1.15 kgs



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

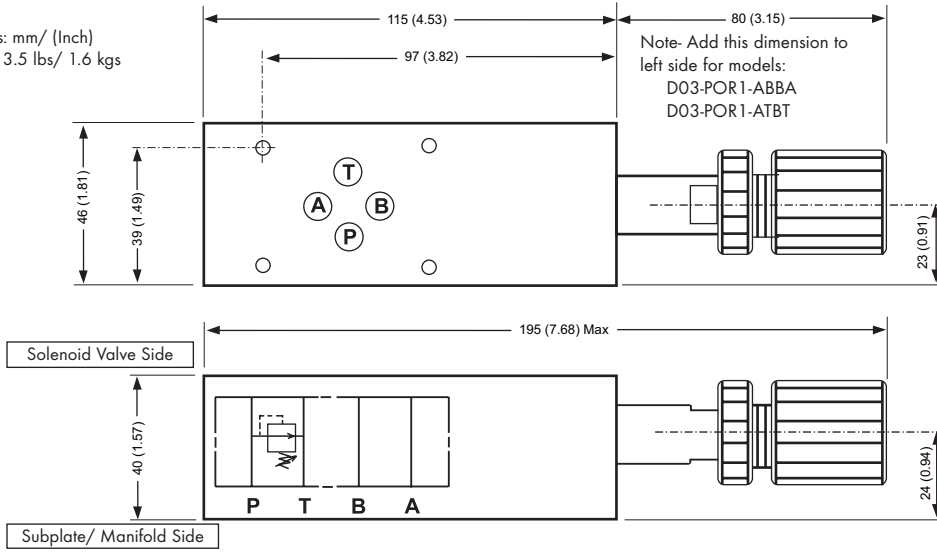
Units: mm/ (Inch)
Weight: 2.9 lbs/ 1.3 kgs



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

Dimensional Data

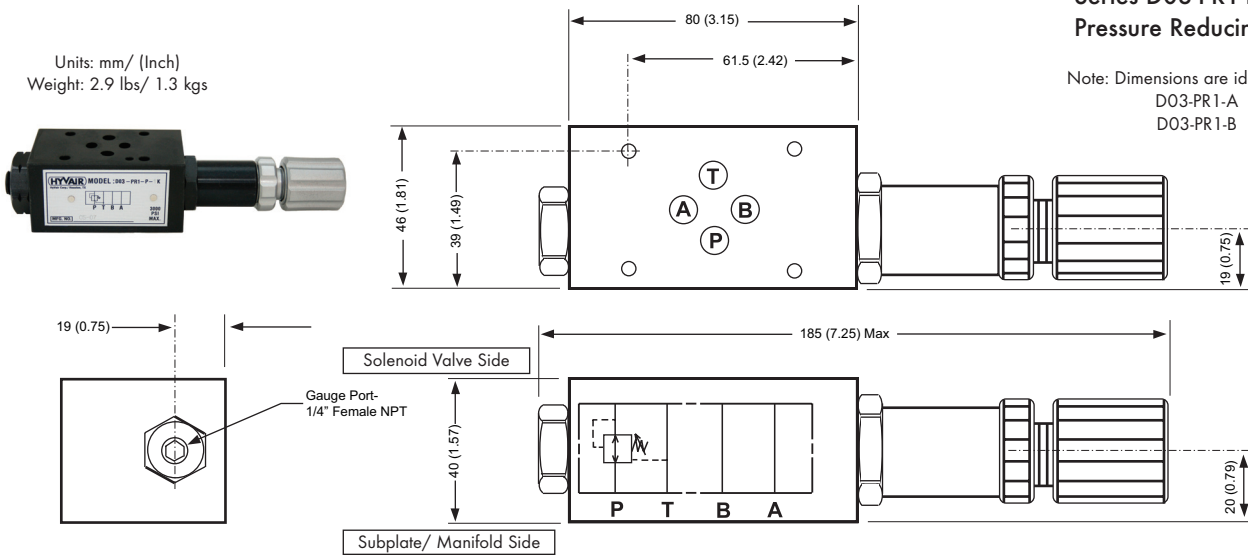
Units: mm/ (Inch)
Weight: 3.5 lbs/ 1.6 kgs



Series D03-POR1-PT Pilot Operated Relief Valve

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

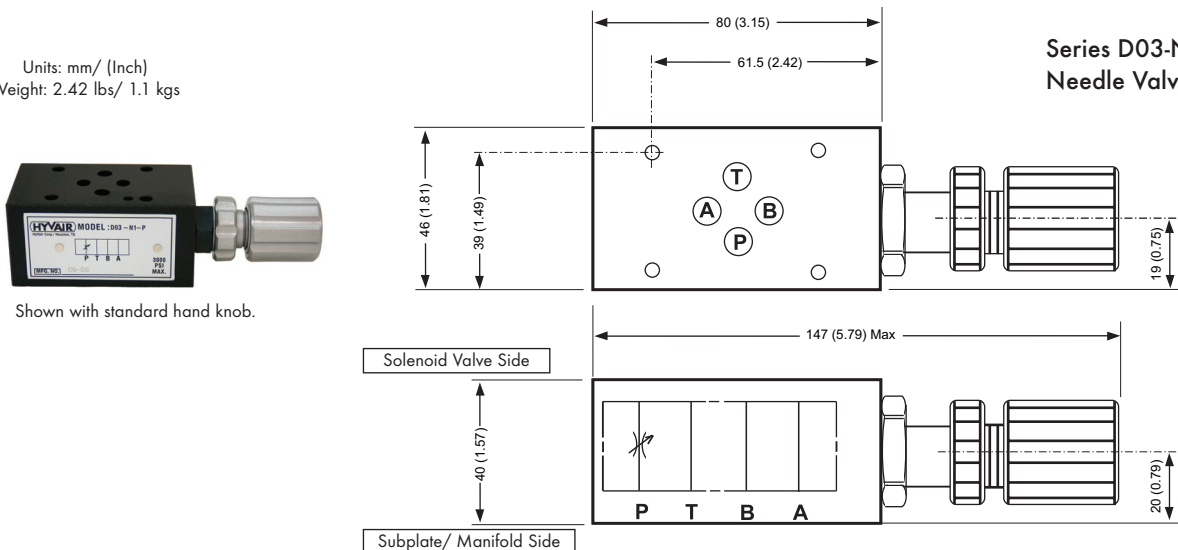
Units: mm/ (Inch)
Weight: 2.9 lbs/ 1.3 kgs



Series D03-PR1-P Pressure Reducing Valve

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

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

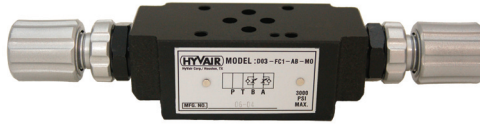


Series D03-N1-P Needle Valve

Shown with standard hand knob.

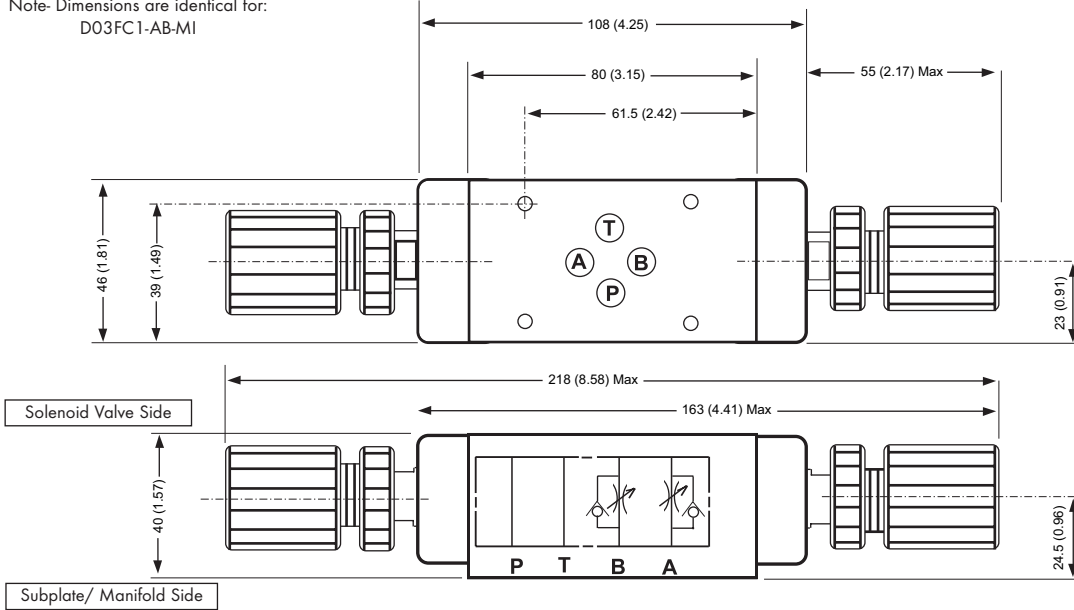
Dimensional Data

Series D03-FC1-AB-MO
Flow Control



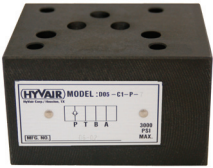
Units: mm/ (Inch)
Weight: 2.8 lbs/ 1.25 kgs

Note- Dimensions are identical for:
D03FC1-AB-MI

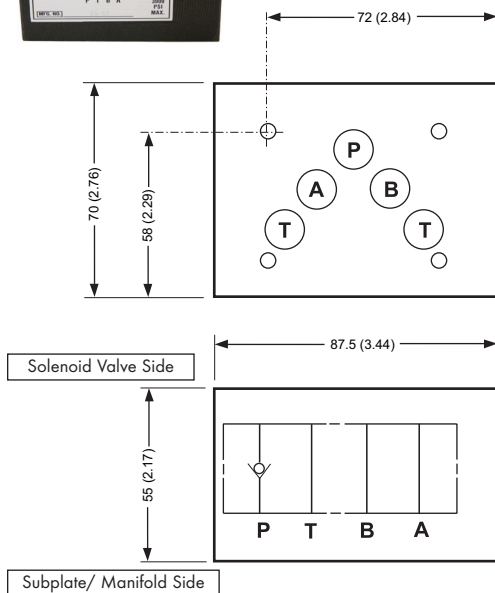


Note: Dimensions are identical for single flow control valve- subtract left or right adjusting knob dimension.

Series D05-C1-P
Check Valve



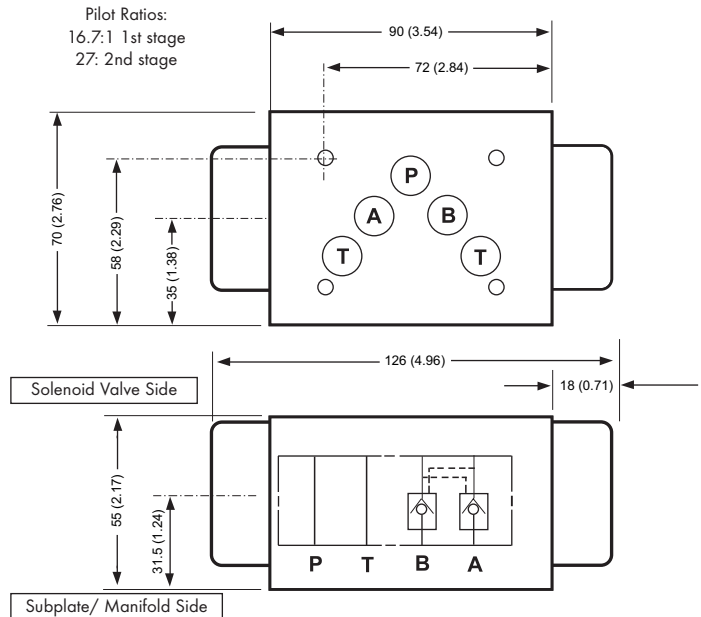
Units: mm/ (Inch)
Weight: 5.28 lbs/ 2.4 kgs



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

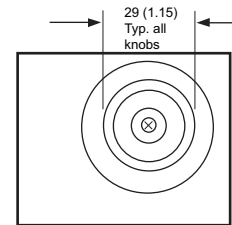
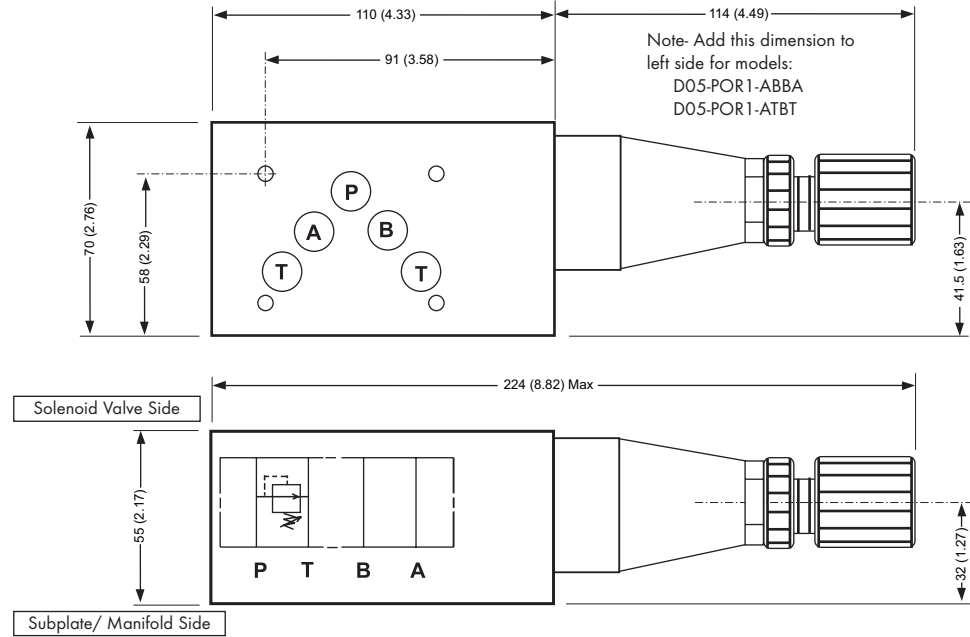


Dimensional Data

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

Series D05-POR1-PT Pilot Operated Relief Valve

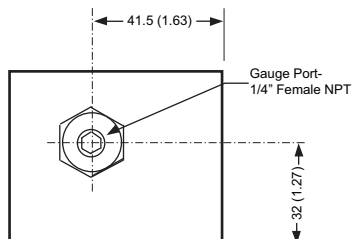
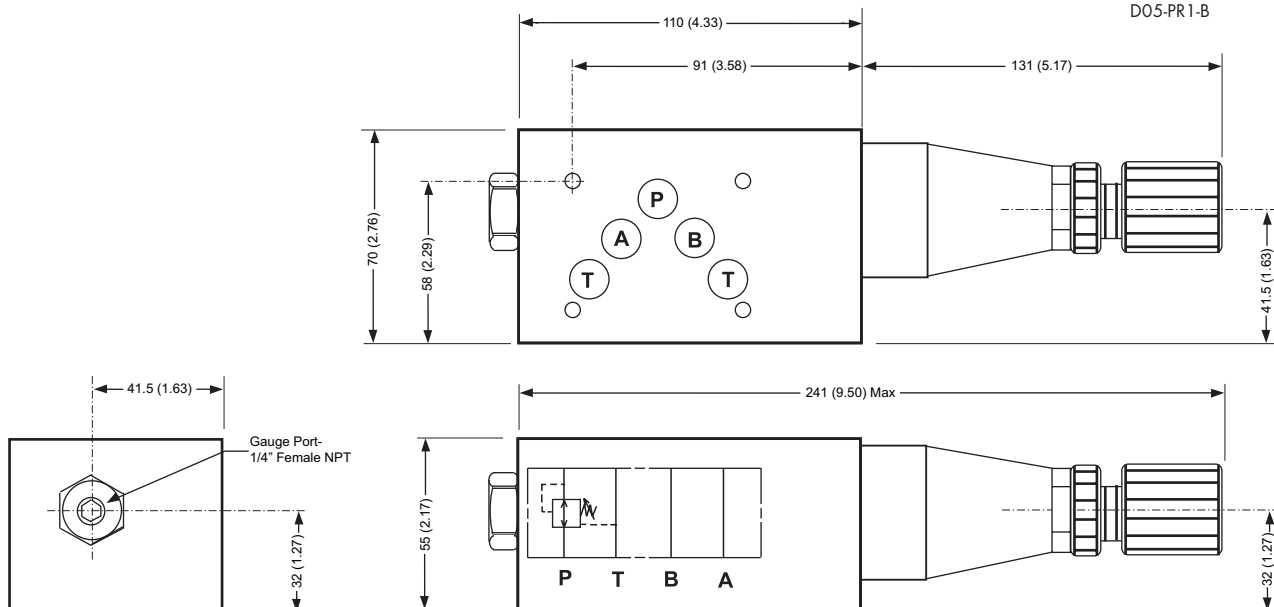
Note- Dimensions are identical for:
D05-POR1-AT
D05-POR1-BT



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

Series D05-PR1-P Pressure Reducing Valve

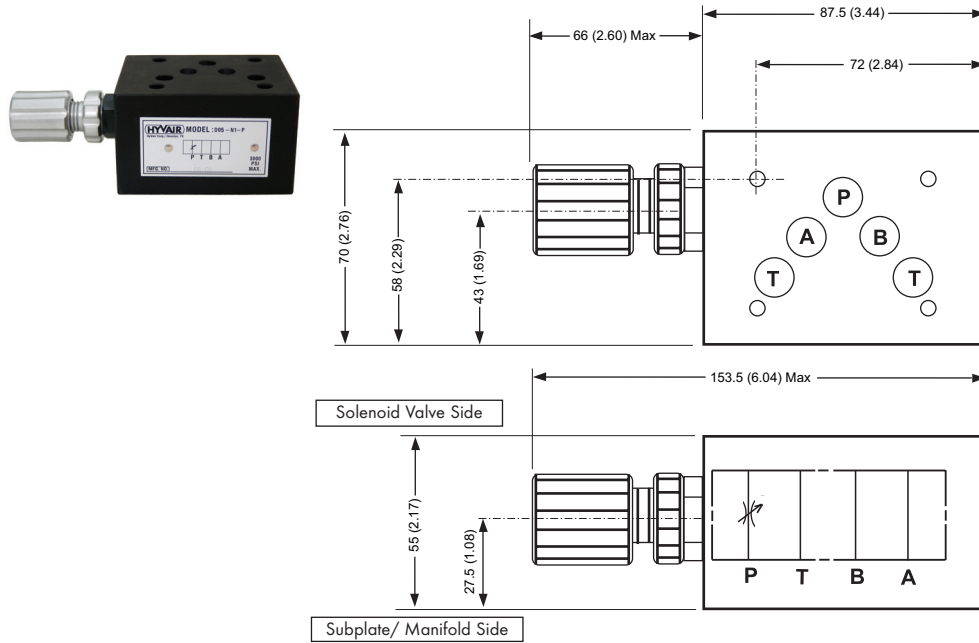
Note: Dimensions are identical for:
D05-PR1-A
D05-PR1-B



Dimensional Data

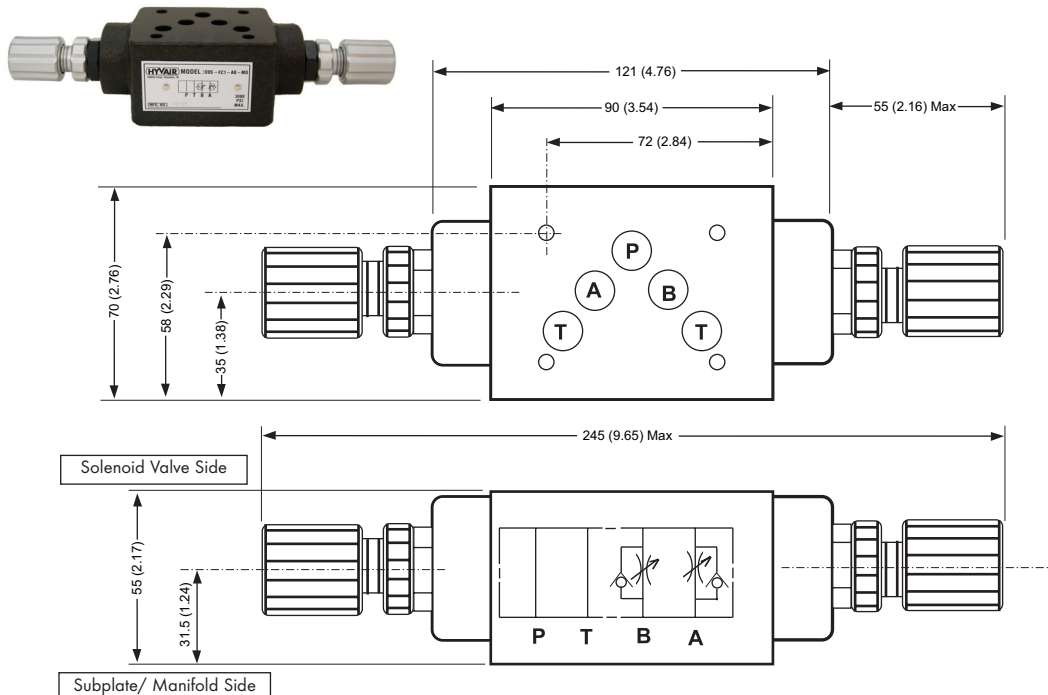
Series D05-N1-P
Needle Valve

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

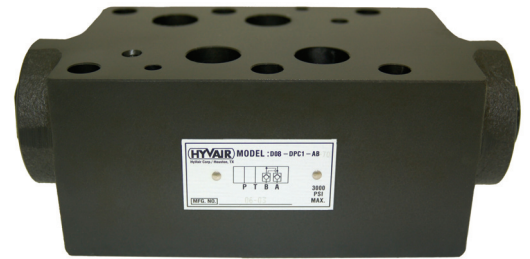
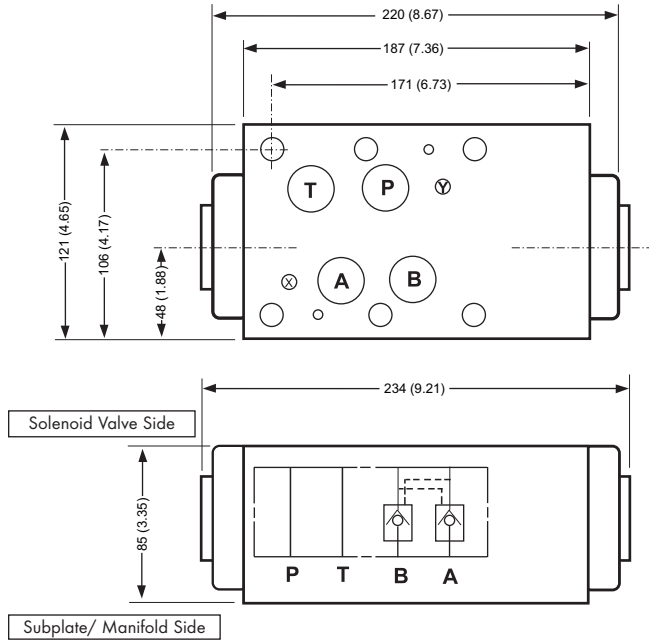


Note: Dimensions are identical for single flow control- subtract left or right adjusting knob dimension.

Dimensional Data

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

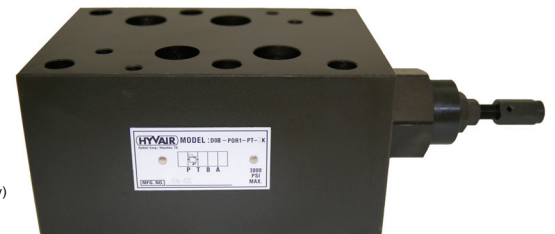
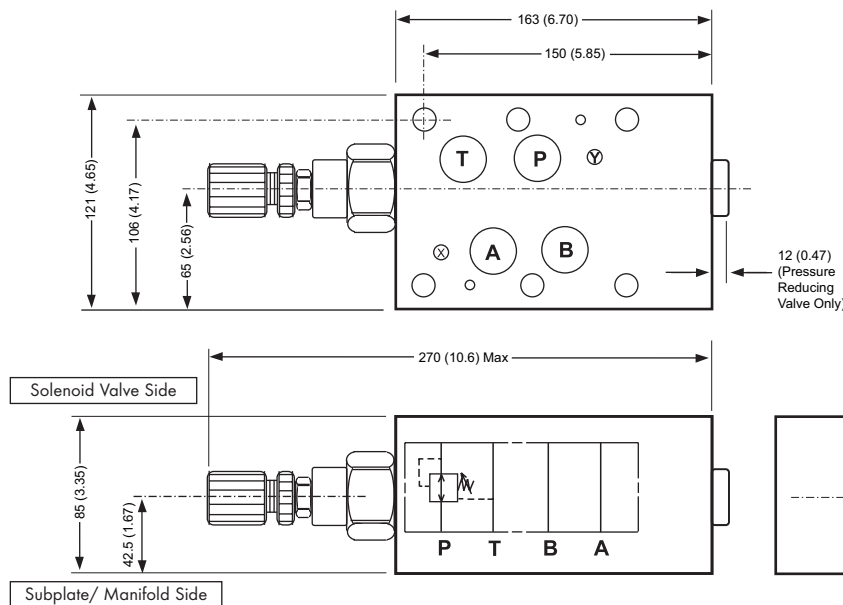
Series D08-C1-P
Check Valve



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

Series D08-PR1-P
Pressure Reducing Valve

Series D08-POR1-P
Pilot Operated Relief Valve



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

MODULAR VALVES

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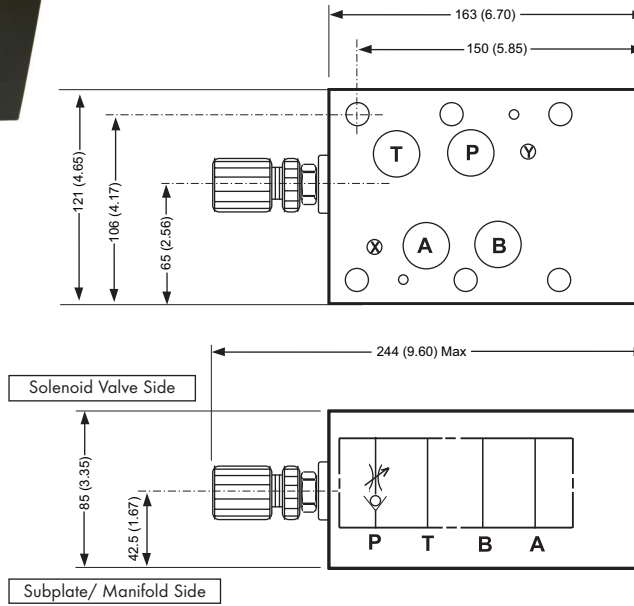


NFPA SIZE: DO8

Dimensional Data

Series D08-NC1-P
Needle Valve w/ Check

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



Series D08-FC1-AB-MO
Flow Control

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

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

