



# **PATRIOT**

## **PHD-FC SERIES**

### **FLOW CONTROL VALVE**



**Driven by Innovation**  
**Power Precision Performance**  
734-479-9641 [patriothyd.com](http://patriothyd.com)





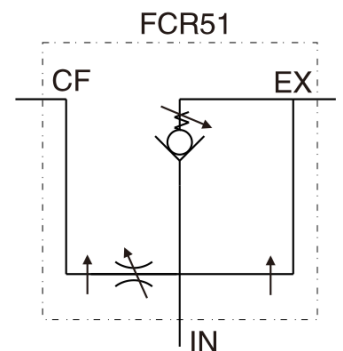
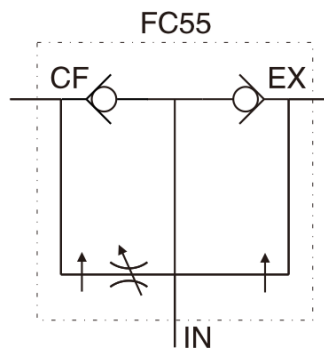
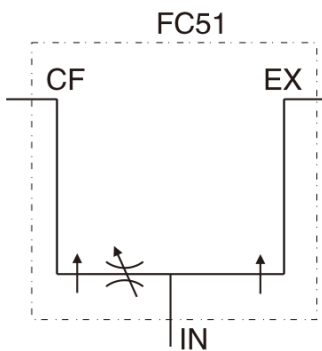
## PHD-FC Features

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Diamond honed spool bore provides consistent spool fit with low leakage. Every PHD-FC is tested for shutoff, max, flow, and pressure compensation. Standard 3-port allows for pressure compensated flow out of two ports. Standard thread compensator plugs to eliminate external leakage from the compensator bore. External seals on rotary spool prevents contamination from locking the spool.

## PHD-FC Spool options

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## PHD-FC Model Code

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PHD-FC - - -

**Modular Pilot Check Valve**

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### *Relief Valve Options*

- Omit - No relief
  - R - Ball spring relief (1500PSI)
  - B - High-lift ball spring relief (1500PSI)
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### *Port Size*

- 3/8 - 3/8" NPT (8GPM - 30LPM)
  - 1/2 - 1/2" NPT (16GPM - 61LPM)
  - 3/4 - 3/4" NPT (30GPM - 114LPM)
  - 6 - #6 SAE 9/16"-18 (8GPM - 30LPM)
  - 8 - #8 SAE 3/4"-16 (8GPM - 30LPM)
  - 10 - #10 SAE 7/8"-14 (16GPM - 60LPM)
  - 12 - #12 SAE 1 1/16"-12 (30GPM - 114LPM)
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### *Flow Setting*

- 37 - 0-8GPM
  - 50 - 0-16GPM
  - 75 - 0-30GPM
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### *2 or 3 Ports*

- 2P - 2 Port
  - Omit - 3 Port
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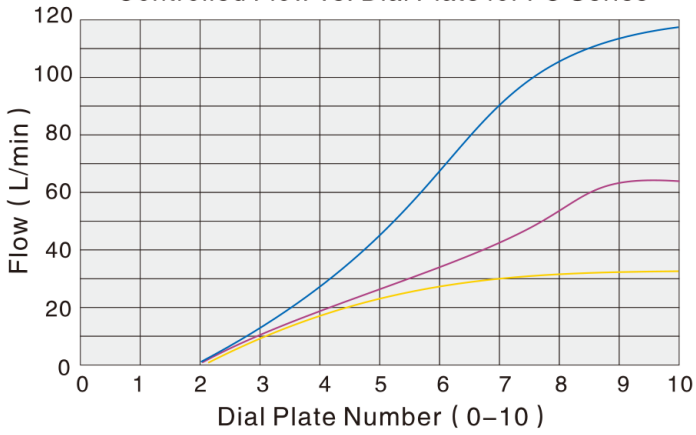


# PHD-FC Performance

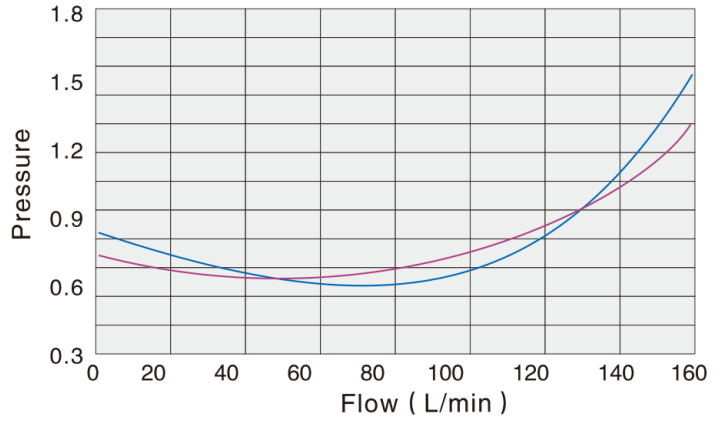
- FC51-3/4
- FC51-1/2
- FC51-3/8

- Excess flow
- Controlled flow

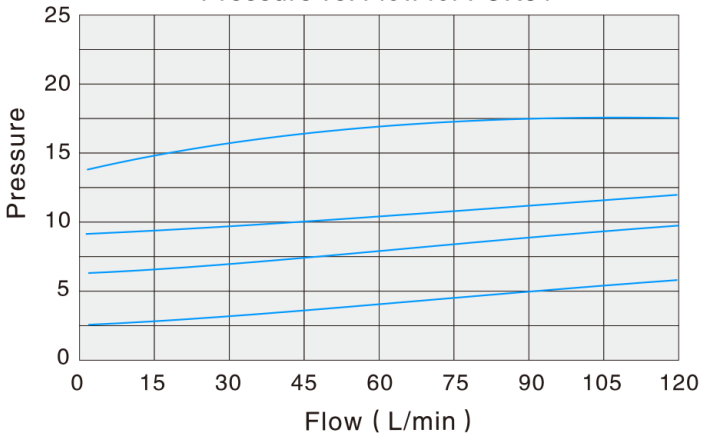
Controlled Flow vs. Dial Plate for FC Series



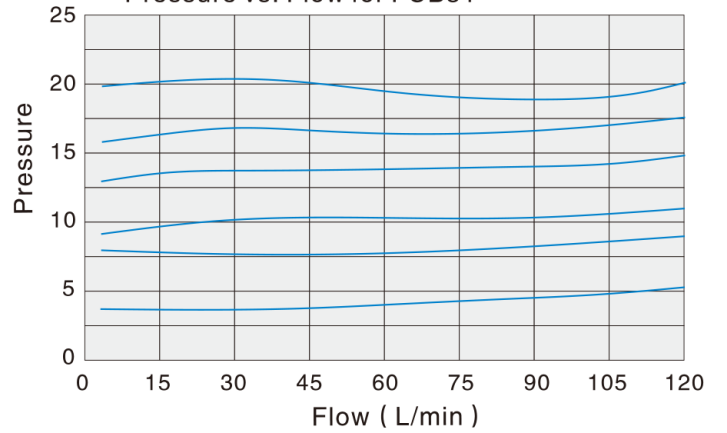
Pressure Drop vs. Flow for FC Series



Pressure vs. Flow for FCR51



Pressure vs. Flow for FCB51





# PHD-MP Dimensions

