Technical Information

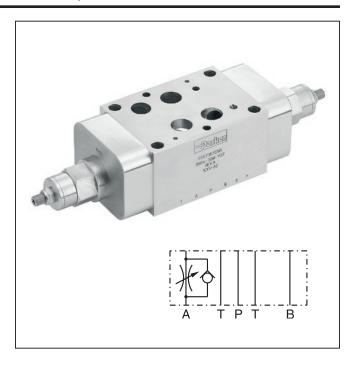
General Description

Series FC, FD throttle check valves are designed for maximum flow rates.

The throttle check function is located in ports A and B. Meter-in or meter-out functionality can be selected by model code.

Features

- High flow capacity.
- Various functional arrangements.
- Sizes:
 - FC05, FD05 NFPA D05 / NG10 / CETOP 5
 - FC05H, FD5H NFPA D05HE / NG10 / CETOP 5H
 - FC07, FD07 NFPA D07 / NG16 / CETOP 7
 - FC08, FD08 NFPA D08 / NG25 / CETOP 8



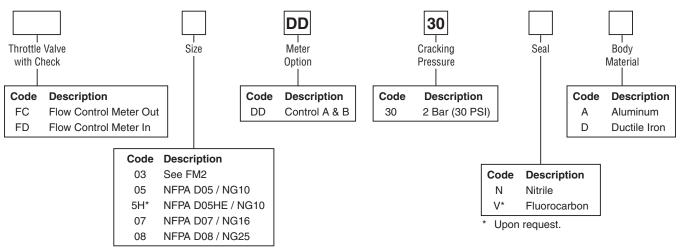
Specifications

General				
Size	D05 / NG10	D05HE / NG10	D07 / NG16	D08 / NG25
Mounting Position	Unrestricted			
Ambient Temperature Range	-20°C to +50°C (-4°F to +122°F)			
Hydraulic				
Maximum Operating Pressure	Aluminum Body – up to 207 Bar (3000 PSI); Ductile Iron Body – up to 345 Bar (5000 PSI)			
Nominal Flow	95 LPM (25 GPM)	95 LPM (25 GPM)	227 LPM (60 GPM)	454 LPM (120 GPM)
Leakage	< 5 DPM	< 5 DPM	< 5 DPM	< 5 DPM
Cracking Pressure	30 ± 0.2 Bar (3 PSI)			
Fluid Temperature	-20°C to +80°C (-4°F to +176°F)			
Viscosity Permitted Recommended	10 to 650 cSt / mm²/s (46 to 3013 SSU) 30 cSt / mm²/s (139 SSU)			
Filtration	ISO Class 4406 (1999) 18/16/13 (acc. NAS 1638: 7)			

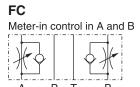
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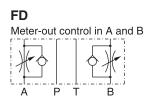


Ordering Information



^{*} Valve comes with D05HE (ISO) pattern seal plate (990-120-012). If D05H pattern is required, order seal plate kit 990-120-009.





Weight:

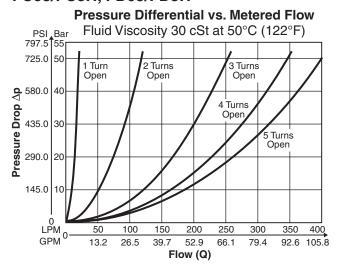
Size	FC**DD30NA, FD**DD30NA	FC**DD30ND, FD**DD30ND	
FC05, FC5H, FD05, FD5H	1.3 kg (2.9 lbs.)	2.6 kg (5.7 lbs.)	
FC07	3.4 kg (7.6 lbs.)	6.9 kg (15.3 lbs.)	
FC08	7.1 kg (15.7 lbs.)	14.7 kg (32.5 lbs.)	



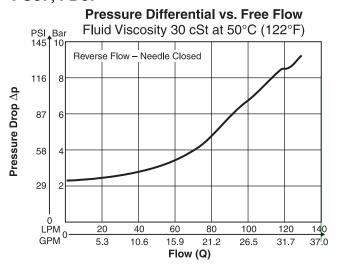
FC05/FC5H, FD05/FD5H

Pressure Differential vs. Free Flow Fluid Viscosity 30 cSt at 50°C (122°F) PSI Bar 507.5 35 Reverse Flow - Needle Closed 435.0 30 d 362.5 25 25 290.0 20 217.5 15 145.0 10 72.5 LPM 100 200 300 400 500 26.5 52.9 79.4 105.8 132.3 Flow (Q)

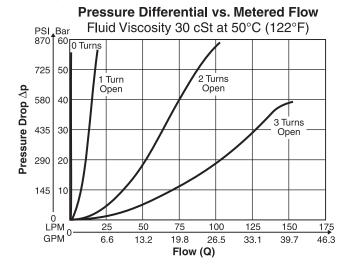
FC05/FC5H, FD05/FD5H



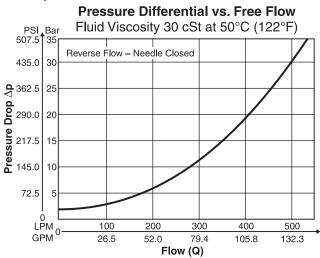
FC07, FD07



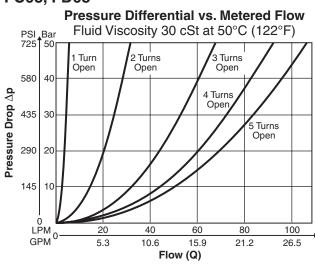
FC07, FD07



FC08, FD08



FC08, FD08

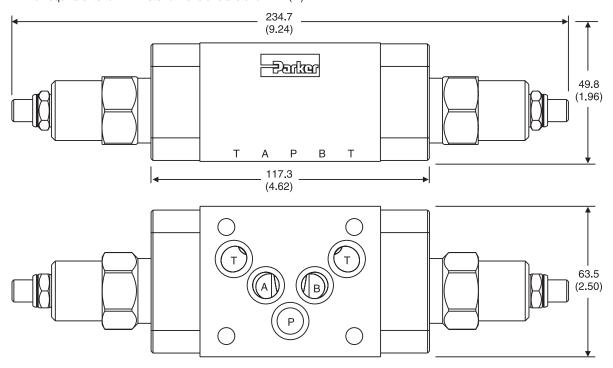




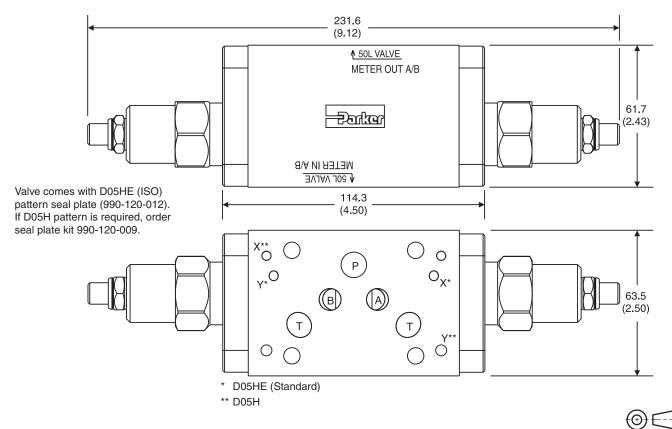


Dimensions

FC05DD — Inch equivalents for millimeter dimensions are shown in (**)



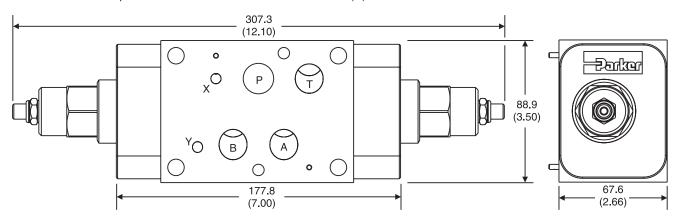
FC5HDD - Inch equivalents for millimeter dimensions are shown in (**)



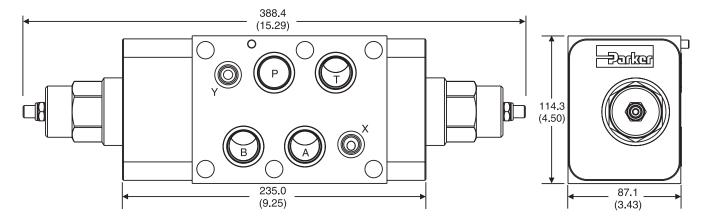


Dimensions

FC07DD — Inch equivalents for millimeter dimensions are shown in (**)



FC08DD - Inch equivalents for millimeter dimensions are shown in (**)

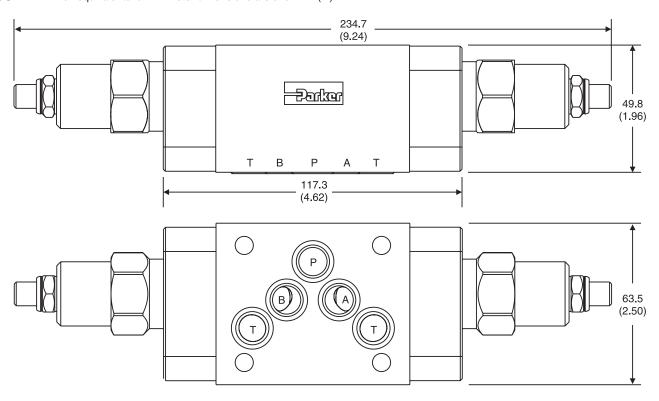




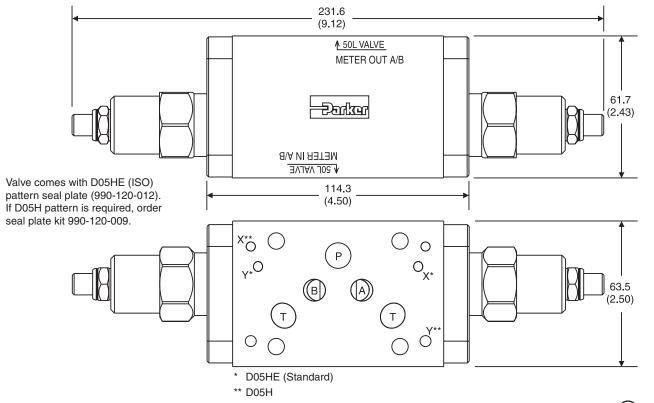


Dimensions

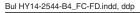
FD05DD - Inch equivalents for millimeter dimensions are shown in (**)



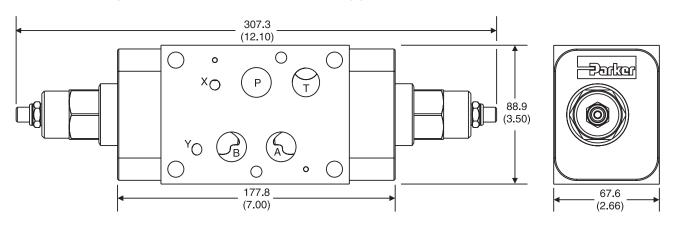
FD5HDD — Inch equivalents for millimeter dimensions are shown in (**)



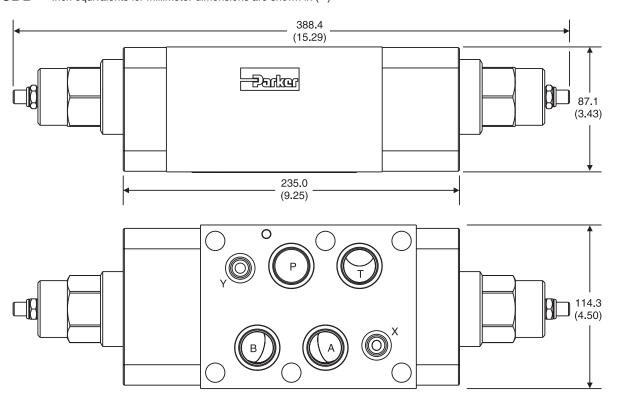




FD07DD — Inch equivalents for millimeter dimensions are shown in (**)



FD08DD - Inch equivalents for millimeter dimensions are shown in (**)







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