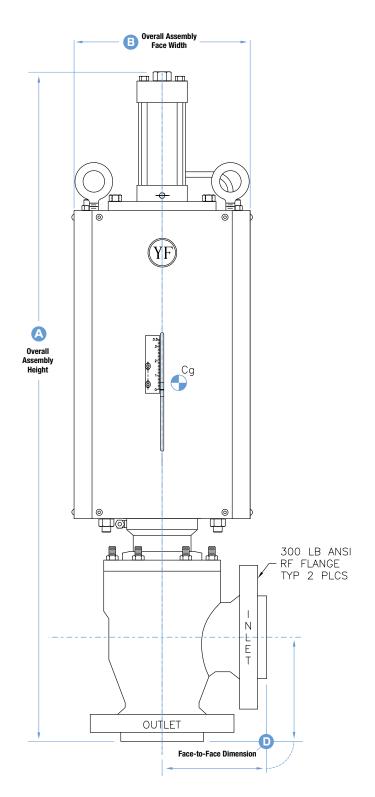


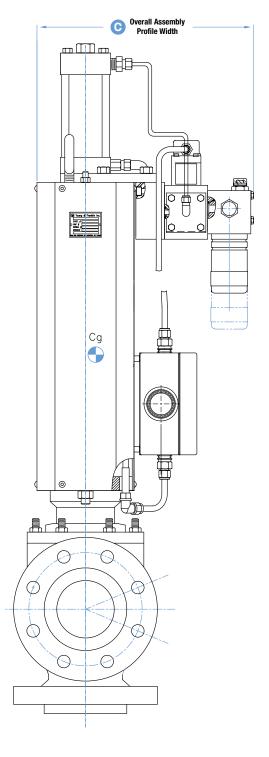
8580 Series Gas Control Valves



Hydraulically actuated choked-flow precision gas control valves

8580 Series Gas Control Valve Dimensions





Measurement Key	2" Valve	3" Valve	4" Valve	6" Valve	8" Valve
A Overall Assembly Height	42.56" (1081.02 mm)	44.38" (1127.25 mm)	44.94" (1141.48 mm)	47.94" (1217.68 mm)	54.76" (1390.90 mm)
Overall Assembly Face Width	12.25" (311.15 mm)				
Overall Assembly Profile Width	15.07" (382.78 mm)				
□ Face-to-Face Dimension	5.25" (133.4mm)	6.25" (158.8 mm)	7.25" (184.2 mm)	9.31" (236.47 mm)	11.19" (284.23 mm)

8580 Series GCV Technical Specifications

Line Size:	2" Valve	3" Valve	4" Valve	6" Valve	8" Valve			
Flow Characteristics	Linear	Linear	Linear	Linear	Linear			
Maximum Cg	1,200	2,900	4,300	6,600	13,000			
Hydraulic Pressure	1200 to 1700 psig							
Maximum Operating Pressure	1700 psig							
Proof Pressure	2800 psig							
Maximum Rod Seal Drain Pressure	10 psig							
Maximum Return Pressure	30 psig							
Trip Valve	Independent electric or hydraulic trip valve							
Trip Time	< 100 ms for up to 6" valve, < 200 ms for 8" or larger valve							
Trip Relay: Low Pressure	100 psi							
High Pressure Electric	1600 psi							
	125 VDC							
Feedback	0.7 to 3.5 Vrms LVDT feedback with 7.0 Vrms input							
RVDT feedback	Available for rotary valves; limit switch standard for aux/stop valves							
Servo Command	+/- 8 mA servo command; +/- 60 mA servo command options available							
Typical slew time	0.7 +/03 second; 0.200 second slew time available for some models							
Failsafe	Close							
Overboard leakage	Zero leakage, as shipped							
Failure Mode	Spring type to drive valve to safe position with loss of signal (Fail Close)							
Component Certifications	C € ⟨ II 3 G T3, Ex nA IIC T3 Gc CSA Class I, Division I and II, Groups B, C and D							

The Y&F 8580 Series Gas Control Valve Assemblies provide fast and reliable control of gas fuel flow to the combustion system of a large industrial or utility gas turbine.

The two-way valves provide variable flow control in applications requiring highly linear critical gas flow relative to valve stroke. The hydraulic actuator assemblies provide safe turbine fuel shutoff and reliable valve positioning. Control valve positioning is affected through a triple coil, two-stage servo valve that recieves a \pm -8 mA command. Position feedback is measured using two LVDT's.

Y&F 8580 Series Valves utilize a common design for 1" to 10" line size applications.

Contact Young & Franklin, Inc. (www.yf.com) for details.

