

D1G Pilot-Domeload

Hybrid Regulator



The D1G Pilot-Domeload Hybrid Regulator is the second generation of the D1 Regulator, which combined both the dome and pilot regulator into a single unit. The new D1G offers an updated look, improved performance and new features in a lighter, more compact package.

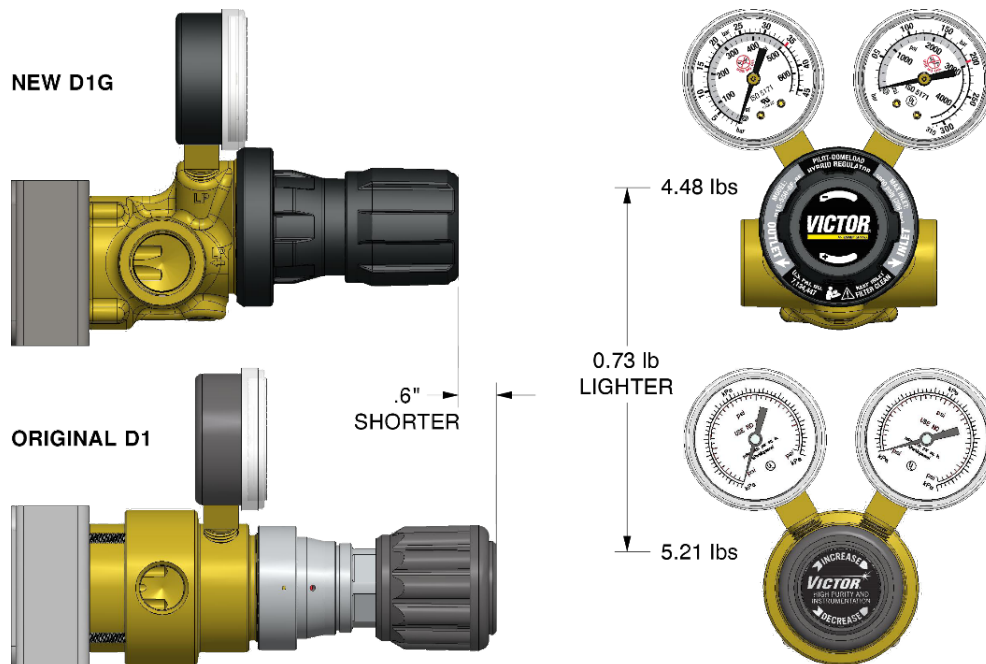
Engineered to deliver constant output pressure supporting very high flow demand.

- Larger 3/4" NPT Inlet and Outlet ports
- Lighter, more compact design for maximum versatility
- Large, replaceable 50 micron inlet filter for enhanced protection of internal components
- 30,000+ SCFH flow capacity
- Includes mounting bracket

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Industry

- Laser
- Industrial applications requiring large gas supplies such as cylinder bundles, tube trailers and gas transports



Specifications / Technical Data	
Maximum inlet	3000 psig
Outlet pressure	50 – 550 psig
Inlet & Outlet Connection	¾" -14 NPT (F)
Standards Compliance	CGA E-4
Operating Temperature Range	0° F to 140° F
Outlet Pressure Rise	1.0 psig per 100 psig Decay
Flow Coefficient (Cv)	1.02

Materials of Construction	
Body	Brass UNS 37700 (CDA377) per ASTM B-124 (Ref. HPb59-1 per GB/T 4423)
Bonnet	Die Casting Alloy No. 5, Conforming to ISO 301:1981 ZnAl4Cu1
Dome Cap	Brass CDA 360 (UNS C36000)
Pilot Diaphragm	Neoprene w/Nylon Fabric Reinforcement
Dome Piston	Brass CDA 360 (UNS C36000)
Nozzles/Seat Holders (Pilot & Dome)	Brass CDA 360 (UNS C36000)
Seat Stems (Pilot & Dome)	Stainless Steel Type 303
Seats	Dome Seat Viton®, Pilot Seat Urethane
Seals/Piston O-Ring	Viton®
Dome Seat Backup Ring	Teflon®
Inlet Filter	50 Micron Sintered Bronze, Electroless Nickel Plated
Seat Return Springs	Stainless Steel Type 302
Pressure Adjusting Spring	Music Wire per ASTM A228
Adjusting Knob	High Impact ABS (Acrylonitrile Butadiene Styrene)
Mounting Bracket	Stainless Steel Type 304

Ordering Information	
Description	Part Number
D1G-550-12F-12F	0782-4420
D1G-550-580-12F with CGA 580 (inert gas) inlet	0782-4421
D1G-550-540-12F with CGA 540 (oxygen) inlet	0782-4422
D1G-550-590-12F with CGA 590 (industrial air) inlet	0782-4423

Ordering Information – Wear and Spare Parts	
Description	Part Number
Gauge, Low Pressure (Working Pressure 550 psig / 35 bar)	1435-0089RP
Gauge, Hi Pressure (Working pressure 3000 psig / 206 bar)	1435-0078RP
Replacement Inlet Filter (Includes Snap Ring)	0790-0295RP



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