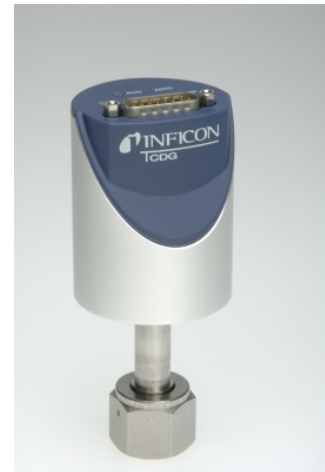


CDG025D X3 Torr based other ranges

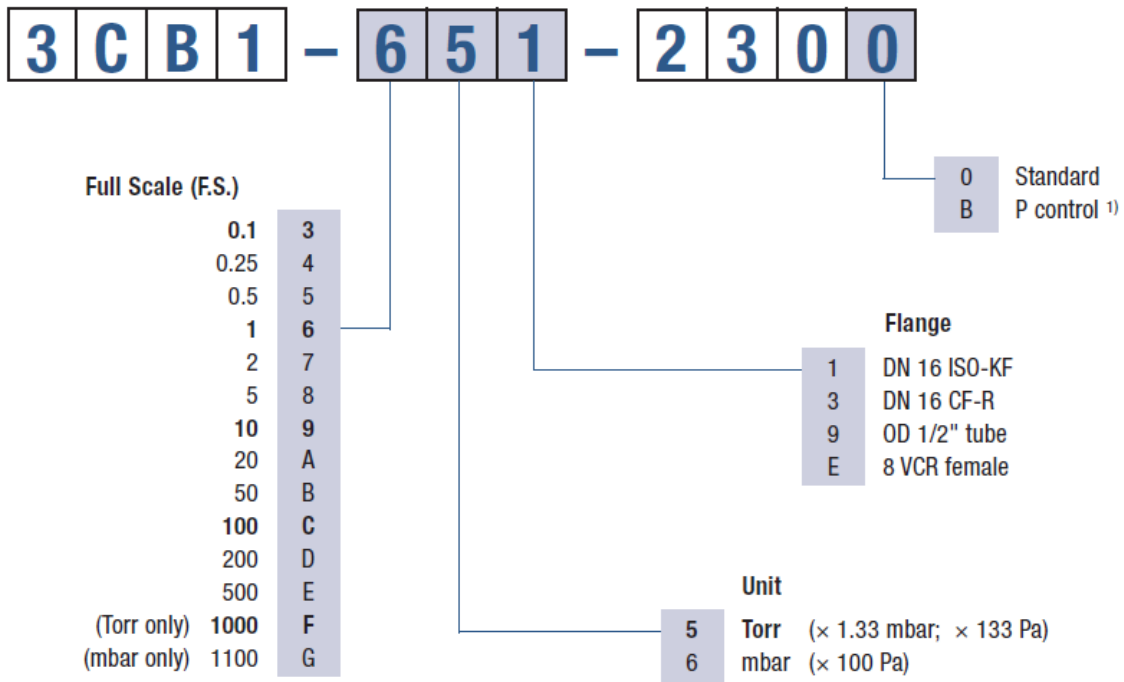
The INFICON SKY CDG025D Capacitance Diaphragm Gauge line of highly accurate temperature compensated manometers is designed for stable performance in harsh manufacturing tool environments. Advanced digital electronics improve gauge performance and offer easy handling features such as one pushbutton zero function and setpoint adjustment. The corrosion resistant ultra pure ceramic sensor provides excellent zero stability with a long life expectancy of several million pressure cycles, including atmospheric bursts. A unique sensor shielding (patent pending) protects the gauge from process contamination. A robust mechanical design and digital electronics improve EMC compatibility, long term stability and temperature compensation. The CDG025D sets new standards for fast stability after power on and fast recovery from atmospheric pressure exposure.



BENEFITS

- Full scale ranges from 100 mTorr ... 1000 Torr
- Fast stability after power on
- Fast recovery from atmospheric pressure
- Corrosion resistant ceramic sensor
- Excellent long term signal stability
- Temperature compensated
- One pushbutton zero function
- Wide range power supply
- 2 setpoints
- RS232 interface
- Clean room compliant

ORDERING INFORMATION



¹⁾ Optimised signal filter setting for pressure control.

bold = standard products

Other flange types and full scale ranges (F.S.) on request.

SPECIFICATIONS

Type		200 Torr	20 Torr
F.S. (Full Scale)	Torr	200	20
F.S. (Full Scale)	Pa	26,664	2,666
F.S. (Full Scale)	mbar	267	26.7
Temperature effect			
on zero	percent FS/°C		0.005
Temperature effect			
on span	% of reading / °C		0.01
Accuracy (1)	% of reading	0.2	0.2
Temperature effect			
on zero	percent FS/°C	0.005	
Temperature effect			
on span	% of reading / °C	0.01	
Resolution	percent FS	0.003	0.003
Pressure, max.	kPa (absolute)	260	260
Response time (2)	ms	30	30
Lowest reading	percent FS	0.01	0.01
Lowest suggested reading	percent FS	0.05	0.05
Lowest suggested control pressure	percent FS	0.5	0.5
Temperature			
Operation (ambient)	°C	+5 ... +50	+5 ... +50
Bakeout at flange (3)	°C	≤110	≤110
Storage	°C	-40 ... +65	-40 ... +65
Supply voltage	V (dc)	+14 ... +30	+14 ... +30
Power consumption	W	≤1	≤1
Output signal (analog)	V (dc)	0 ... +10	0 ... +10
Degree of protection		IP 30	IP 30
Standards		EN 61000-6-2, EN 61000-6-3, EN 61000-6-2, EN 61000-6-3, EN 61010, UL 61010-1, CSA 22.2 No.61010-1, RoHS	EN 61000-6-2, EN 61000-6-3, EN 61010, UL 61010-1, CSA 22.2 No.61010-1, RoHS
Electrical connection		D-Sub, 15-pin, male	D-Sub, 15-pin, male
Setpoint (SP1,SP2)			
Relay contact	V (dc)	30	30
Setpoint (SP1,SP2)			
Relay contact	A (dc)	≤0.5	≤0.5

SPECIFICATIONS

Type		200 Torr	20 Torr
Setpoint (SP1,SP2)			
Hysteresis	percent FS	1	1
Materials exposed to vacuum		Aluminum oxide ceramic (Al ₂ O ₃), stainless steel (AISI 316L ⁽⁴⁾)	Aluminum oxide ceramic (Al ₂ O ₃), stainless steel (AISI 316L ⁽⁴⁾)
Internal volume			
I. volume 1/2" tube	cm ³ (in. ³)	3.6 (0.22)	3.6 (0.22)
I. volume DN 16 ISO KF	cm ³ (in. ³)	3.6 (0.22)	3.6 (0.22)
I. volume DN 16 CF-R	cm ³ (in. ³)	3.6 (0.22)	3.6 (0.22)
I. volume 8 VCR®	cm ³ (in. ³)	3.6 (0.22)	3.6 (0.22)
Weight			
Weight 1/2" tube	g	310	310
Weight DN 16 ISO KF	g	330	330
Weight DN 16 CF-R	g	350	350
Weight 8 VCR®	g	370	370

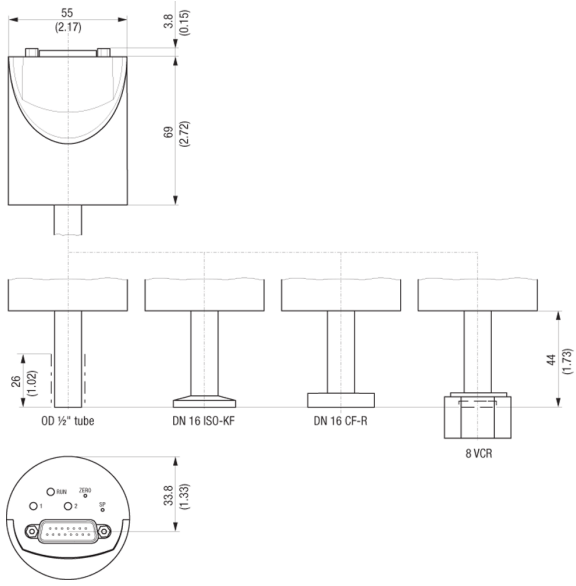
(1) Non-linearity, hysteresis, repeatability at 25°C ambient operating temperature without temperature effects after 2 hours operating.

(2) Increase 10 ... 90 percent F.S.

(3) Non operation

(4) 18% Cr, 10% Ni, 3% Mo, 69% Fe

DIMENSIONS



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Due to our continuing program of product improvements, specifications are subject to change without notice. RateWatcher is a trademark of INFICON. All other trademarks are the property of their respective owners.

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