

BODY TYPE

Specially Designed Station Assemblies
To Customer Requirements
• Contact for more Info.



Type 274 w/ Threaded Body



Type 274 w/ Flanged Body



Type 274/290 OPCO
w/ Flanged Body

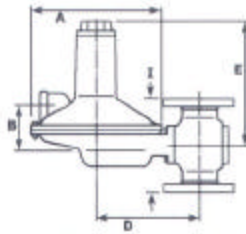


Type 274/309 UPCO/OPCO
w/ Flanged Body

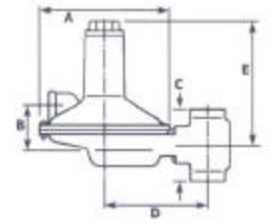


Type 274/309 UPCO/OPCO
pilot loaded PFM approved

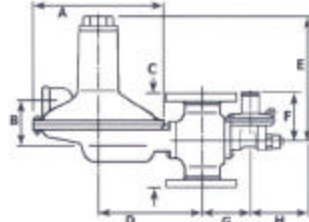
DIMENSIONAL DRAWINGS



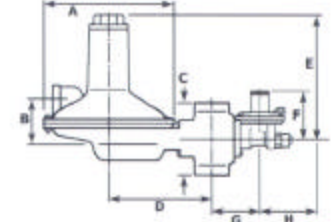
Type 274 w/ Flanged Body



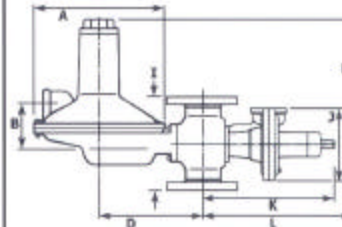
Type 274 w/ Threaded Body



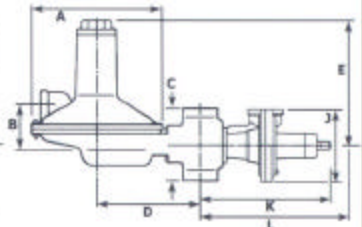
Type 274/290 /OPCO
w/ Flanged Body



Type 274/290 OPCO
w/ Threaded Body



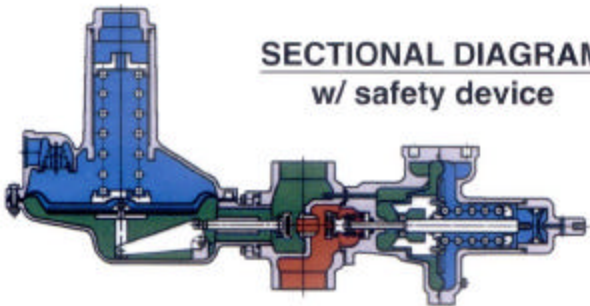
Type 274/309 UPCO/OPCO
w/ Flanged Body



Type 274/309 UPCO/OPCO
w/ Threaded Body

A	B	C	D	E	F	G	H	I	J	K	L
11"	3 1/2"	5 3/4"	8 1/8"	10"	3 1/2"	4"	6 1/2"	7 1/2"	4 1/4"	8 1/2"	12"

**SECTIONAL DIAGRAM
w/ safety device**



CHRYSSAFIDIS

Bryan Donkin RMG
Canada Limited



A Member of the RMG Group of Companies

Serving the Gas Industry WORLDWIDE



Technical Data


CHRYSSAFIDIS

Introduction

- Specifically designed for safe, accurate pressure reduction for gas services to commercial and industrial applications
- High pressure direct acting, diaphragm operated regulator
- Also available in PFM approved version (pilot loaded regulator)
- Certified to Canadian Standard CAN/ CGA 6.18
- Certified to American Standard B109.4

Applications

- Flow capacity up to 24000 scfh or 700 scmh
- Use in confidence with any non-corrosive natural and manufactured gaseous media
- Also available in P.F.M. approved version (pilot loaded)

Body Connections

- Available with BSP or NPT threads
- Available in ASA or PN standards

- Threaded Version
Inlet - 1.25", 1.5", 2"
Outlet - 1.25", 1.5", 2"

- Flanged Body
Inlet - 2" (DN50)
Outlet - 2" (DN50)

Spring Selection

Spring	Outlet Pressure Range	
	w.c.	mbar
960	6" - 14"	15- 35
961	12" - 22"	30 - 56
962	20" - 40"	50 - 100
963	1 - 3 psig	70 - 210
964	2 - 6 psig	140 - 420

Value Added Services

- Meter Set Assemblies designed specific to customer requirements
- Manifold Assemblies and meter preset
- Regulation training
- On site consultation
- Inventory Management
- Custom Machining
- Application Review & Product Recommendation
- Station design and assembly available specifically designed to meet customer requirements

Features

- Light weight construction
- Body and vent positions available in any orientation
- Optional External Control Line (ECL) version
- Wide Inlet pressure range
- Large capacity range
- Ease of maintenance (spare kit and additional springs available)
- Ambient temperature -40°C to 60°C
- **Maximum inlet pressure 150 psig (10 bar)**

Options

- P - Type - no internal relief capacity
 LR - Type - limited capacity internal relief
 R - Type - full capacity internal relief
 SD - Type - (safety diaphragm) W/ OPCO
- No internal relief with secondary diaphragm protection. Incorporated with integral over-pressure cut-off safety device.
 - Approved for indoor installations with no required vent line.
 - W/ OPCO - incorporated w/ integral over - pressure cut-off safety device
 - W/ UPCO/ OPCO - incorporated w/ integral under and over pressure cut-off safety device

Materials of Construction

Body	Cast Iron
Diaphragm Casings	Die Cast Aluminum
Diaphragm	Buna N Rubber
Valve Seat	Buna N Rubber
Diaphragm Plates	Steel
Orifice	Brass
Fasteners	Steel
Vent Screen	Stainless Steel
Top Cap	Aluminum

Weights

- 1.25" (32mm), 1.5" (40mm) screwed - 8.2 kg
- 2" (50mm) screwed - 8.15 kg
- 2" (50mm) flanged - 12.75 kg
- w/ OPCO - add 0.5 kg
- w/UPCO/OPCO - add 1 kg

Actual performance values for fig.274'R stated in nm³/h (sg=0.6)

SPRING NO. AND OUTLET PRESSURE	INLET PRESSURE		ORIFICE SIZE					
			0.1"wc	0.25"wc	½"wc	1"wc increase	1½"wc	2"wc
	mbar	psig	5 mm	7.5 mm	10 mm	15 mm	20 mm	30 mm
Spring No. 960	70	1						44
15 - 35 mbar	140	2	12	26	37	53	60	80
6-14"wc	345	5	21	42	62	84	106	142
	690	10	28	58	95	135	365	319
Set Point	1 bar	15	37	73	124	310	402	402
25 mbar	2	30	52	119	256	402	402	
10" wc	3	45	66	188	402	402	402	
	4	60	84	234	402	402	402	
Droop	5	75	99	265	402	402		
5 mbar	7	100						
2" wc	8,6	125	214	402	402			
Spring No. 961	70	1						40
30 - 56 mbar	140	2	11	23	27	46	58	75
12-22"wc	345	5	22	38	47	66	80	137
	690	10	29	53	77	110	329	338
Set Point	1 bar	15	35	80	95	139	383	420
46 mbar	2	30	51	110	228	456	602	
18" wc	3	45	68	146	319	584		
	4	60	84	228	383	456		
Droop	5	75	99	274	456			
10 mbar	7	100						
4" wc	8,6	125	146	402	383			
Spring No. 962	140	2		0				69
50 to 100 mbar	345	5	17	35	47	62	75	137
20-40"wc	690	10	27	49	69	91	124	142
	1 bar	15	35	62	84	117	146	420
Set Point	2	30	57	95	142	365	511	
76 mbar	3	45	68	139	301	639	602	
30" wc	4	60	84	237	365	675	694	
Droop	5	75	100	274	465			
15 mbar	7	100						
6" wc	8,6	125	183	420	639			
Spring No. 963	345	5	15	29	37	55	66	91
70 - 210 mbar	690	10	27	47	51	73	77	117
1-3 psig	1 bar	15	33	58	66	111	110	319
Set Point	2	30	51	99	110	237	319	
152 mbar	3	45	66	124	146	402	584	
60" wc	4	60	82	146	329	584	621	
Droop	5	75	99	256	420	584		
30 mbar	7	100						
12" wc	8,6	125	135	402	566	730		
Spring No. 964	690	10	18	40	46	62	80	95
140 to 420 mbar	1 bar	15	26	55	57	78	99	124
2-6 psig	2	30	49	77	91	131	219	329
Set Point	3	45	64	106	124	201	292	
310 mbar	4	60	77	128	164	310	420	
4.4 psig	5	75	91	192	219	429	566	
Droop 0.8 psig	7	100						
56 mbar	8,6	125	120	310	402	675		