

# Safety Relief Valve Series 205



## PRODUCT INFORMATION

**Serving the Gas Industry  
Worldwide**



## SAFETY RELIEF VALVE SERIES 205

### Introduction

- The Series 205 is a diaphragm operated, spring loaded High Pressure Relief Valve, with single valve/orifice and lever actuation.
- Use with confidence on natural and manufactured gases of non-aggressive nature, including Nitrogen, Carbon Dioxide, Propane, Butane etc.

### Application

- A dependable means of protecting regulator downstream systems, storage vessels and other items of plant against overpressure by relieving the excess gas to a safe area.

### Size Range

Available in the following screwed sizes to BS 21 (Rc).

Inlet	Outlet
1/2"	1/2"
3/4 "	3/4 "
1"	1"

### Service Conditions

Maximum Inlet Pressure	25 Barg (362 psig)
Relief Pressure Range	0.55 - 11.3 Barg (8 - 165 psig)
Temperature Range	-20°C to + 60°C

### Features

- Internally or externally pressure impulsed (ICL/ECL)
- Wide operational relief pressure range.
- Precise and positive operation.
- Robust construction.

### MATERIALS OF CONSTRUCTION

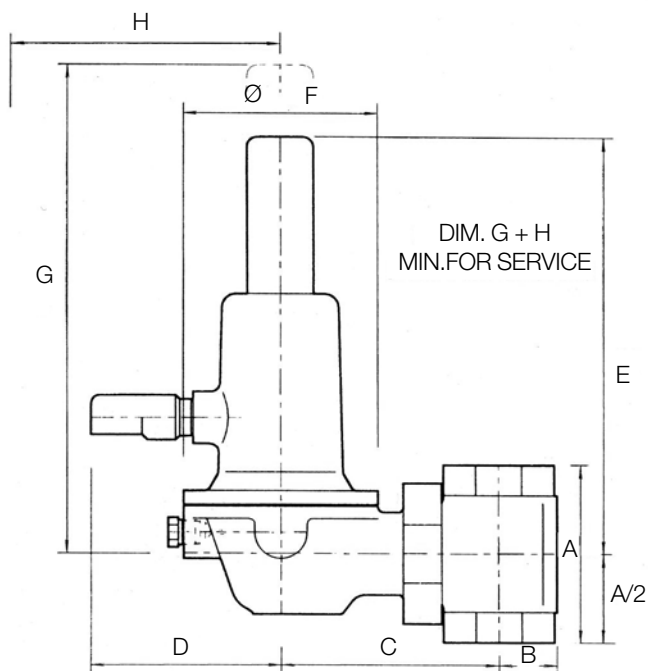
Body, Lower Diaphragm Casing, Spring Housing	Ductile Iron to BS EN 1563 Grade EN-GJS-400-18
Diaphragm Carrier, Valve Head	Aluminium: BS 4300/5 FC1
Orifice, Valve Stem, Valve Bush	Brass: BS2874 CZ121
Diaphragm, 'O' Rings	Nitrile & Viton
Main Spring	Carbon Steel: BS 5216

### SPRING SELECTION

Pressure Relief Valve		Spring Number	Spring Colour
barg	psig		
0.55 - 0.83	8 - 12	261	Yellow
0.69 - 1.72	10 - 25	262	Aluminium
1.58 - 4.14	20 - 60	263	White
3.78 - 6.89	55 - 100	264	Tan
6.20 - 11.3	90 - 165	265	Grey

## SAFETY RELIEF VALVE SERIES 205

Dimensions and Performance Data



Size	A	B	C	D	E	F	G	H	WT		
All Sizes	mm	102	35	127	108	256	111	280	153	Kg	7

3

PERFORMANCE DATA											
Spring Number	Spring Colour	Set Point		Valve Capacity (SG 0.6)							
		Barg	Psig	SM <sup>3</sup> /hr				SCFH			
261	Yellow	0.70	10.0	3	75	123	200	106	2647	4324	7060
262	Aluminium	0.83	12.0	10	33	160	240	353	1165	5648	8742
		1.40	20.0	33	130	255	355	1165	4589	9001	12531
263	White	1.72	25.0	20	78	258	395	706	2753	9107	13943
		2.40	35.0	45	135	350	538	1588	4765	12355	18991
		3.45	50.0	80	250	475	765	2824	8825	16767	27004
264	Tan	4.0	58.0	77	179	520	528	2718	6319	18356	18638
		5.5	80.0	107	330	524	900	3777	11649	18497	31770
		7.0	101.5	152	440	850	1100	5366	15532	30005	38830
265	Grey	6.5	94.0	80	165	540	1075	2824	5824	19062	37947
		9.0	130.5	132	350	1025	1366	4660	12355	36182	48220
		11.0	159.5	225	580	1350	1450	7924	20474	47655	51185
Overpressure				10%	20%	50%	100%	10%	20%	50%	100%

Use interpolation to calculate capacity for different overpressure conditions

\* 1" x 1" valve with 12.7mm orifice (Std)

- Valve capacity based on:
- Natural Gas 0.6 SG at 1.013 bar A and 15°C.
- Free discharge to atmosphere through 1.5M of straight pipe of equal bore to the valve outlet.
- Inlet gauge 5d from valve inlet connection.

Types of Gases: The capacities shown in the tables are given in terms of natural gas SG 0.6. For all other gases multiply by the following correction factor:

$$\sqrt{\frac{0.6}{\text{SG of gas handled}}}$$

### **For More Information**

To learn more about RMG's advanced gas solutions, contact your RMG account manager or visit [www.rmg.com](http://www.rmg.com)

### **GERMANY**

#### **Honeywell Process Solutions**

RMG Regel + Messtechnik GmbH  
Osterholzstrasse 45  
34123 Kassel, Germany  
Tel: +49 (0)561 5007-0  
Fax: +49 (0)561 5007-107

#### **Honeywell Process Solutions**

RMG Messtechnik GmbH  
Otto-Hahn-Strasse 5  
35510 Butzbach, Germany  
Tel: +49 (0)6033 897-0  
Fax: +49 (0)6033 897-130

#### **Honeywell Process Solutions**

RMG Gaselan Regel + Messtechnik GmbH  
Julius-Pintsch-Ring 3  
15517 Fürstenwalde, Germany  
Tel: +49 (0)3361 356-60  
Fax: +49 (0)3361 356-836

#### **Honeywell Process Solutions**

WÄGA Wärme-Gastechnik GmbH  
Osterholzstrasse 45  
34123 Kassel, Germany  
Tel: +49 (0)561 5007-0  
Fax: +49 (0)561 5007-207

### **POLAND**

Honeywell Process Solutions  
Gazomet Sp. z o.o.  
ul. Sarnowska 2  
63-900 Rawicz, Poland  
Tel: +48 (0)65 5462401  
Fax: +48 (0)65 5462408

### **ENGLAND**

#### **Honeywell Process Solutions**

Bryan Donkin RMG Gas Controls Ltd.  
Enterprise Drive, Holmewood  
Chesterfield S42 5UZ, England  
Tel: +44 (0)1246 501-501  
Fax: +44 (0)1246 501-500

### **CANADA**

#### **Honeywell Process Solutions**

Bryan Donkin RMG Canada Ltd.  
50 Clarke Street South, Woodstock  
Ontario N4S 0A8, Canada  
Tel: +1 (0)519 5398531  
Fax: +1 (0)519 5373339

### **USA**

#### **Honeywell Process Solutions**

Mercury Instruments LLC  
3940 Virginia Avenue  
Cincinnati, Ohio 45227, USA  
Tel: +1 (0)513 272-1111  
Fax: +1 (0)513 272-0211

### **TURKEY**

#### **Honeywell Process Solutions**

RMG GAZ KONT. SIS. ITH. IHR. LTD. STI.  
Birlik Sanayi Sitesi, 6.  
Cd. 62. Sokak No: 7-8-9-10  
TR - Sasmaz / Ankara, Turkey  
Tel: +90 (0)312 27810-80  
Fax: +90 (0)312 27828-23

