

safety shut-off valve



- designed to safeguard gas distribution systems, normally installed upstream of the regulator with the external control line piped to the downstream of the regulator, closing automatically in the event of an overpressure condition
- for natural gas and all non-corrosive gaseous media
- fully enclosed colour coded valve position indicator
- integral push-button type pressure equalising valve
- manual reset
- low pressure loss

max. service pressure:
16 bar (dependant upon body material)

adjustable spring ranges:
series 305 LP: 0.025 to 0.750 bar
series 305 MP: 0.300 to 2.750 bar
series 305 IP: 2.5 to 6 bar

sizes:
R 2" and
DN 50, DN 80, DN 100, DN 150, DN 200

temperature range:
-20°C to +60°C

shut-off response pressure ranges			
model	spring number	colour	shut-off response range in bar
series 305 LP	1200	silver	0.025 to 0.050
	495	orange	0.045 to 0.125
	835	blue	0.112 to 0.250
	839	grey	0.235 to 0.350
	1054	red/white	0.280 to 0.550
	1059	red/yellow	0.500 to 0.750
series 305 MP	495	orange	0.300 to 0.400
	835	blue	0.360 to 0.900
	839	grey	0.800 to 1.350
	1054	red/white	1.120 to 2.250
	1059	red/yellow	1.950 to 2.750
series 305 IP	1077	yellow	2.5 to 3.3
	1078	green	3.1 to 4.0
	1079	white	3.8 to 5.0
	1080	red	4.8 to 6.0

dimensions and weights						
size	2"	DN 50	DN 80	DN 100	DN 150	DN 200
face-to-face in mm	225	230	276	292	381	457
weight in kg	16	21	29	33	75	108

safety shut-off valve



- ❑ designed to safeguard gas distribution systems, normally installed upstream of the regulator with the external control line piped to the downstream of the regulator, closing automatically in the event of an overpressure condition
- ❑ for natural gas and all non-corrosive gaseous media
- ❑ accurate and dependable action
- ❑ integral push-button type pressure equalising valve
- ❑ manual reset
- ❑ low pressure loss, completely self-acting, no external power supply required

max. service pressure:

19 bar

(dependant upon body material and size)

series 303:

sizes DN 150 & DN 200 - 16 bar

sizes DN 250 & DN 300 - 7 bar

series 303SB:

sizes DN 150 & DN 200 - 19 bar

adjustable spring ranges:

series 303LP - 0.025 to 0.480 bar

series 303MP - 0.420 to 4.5 bar

sizes:

DN 150, DN 200, DN 250, DN 300

temperature range:

-20°C to +60°C

Safety Shut-Off Devices**BD-RMG 303 MK5 & 303SB MK5**

Products of the Bryan Donkin RMG Gas Controls Ltd.

shut-off response pressure ranges			
model	spring number	colour	shut-off response range in bar
series 305 LP	879	grey	0.037 to 0.170
	880	brown	0.160 to 0.480
series 305 MP	756	silver	0.420 to 0.550
	757	orange	0.540 to 0.760
	758	yellow	0.750 to 0.970
	759	black	0.950 to 1.250
	760	white	1.230 to 1.600
	761	light green	1.580 to 2.000
	762	pink	1.970 to 2.630
	763	light blue	2.600 to 3.460
	764	gold	3.430 to 4.500

dimensions and weights				
size	DN 150	DN 200	DN 250	DN 300
face-to-face (mm)	381	457	533	610
weight in kg				
LP (SB LP)	76 (87)	111 (128)	158 (181)	214 (243)
MP (SB MP)	80 (91)	118 (135)	167 (190)	228 (257)

solenoid-operated safety shut-off valve



- designed to safeguard gas distribution systems, normally installed upstream of the regulator closing automatically in the event of temporary interruption of the power supply to the solenoid
- for natural gas and all non-corrosive gaseous media
- accurate and dependable action
- integral push-button type pressure equalising valve
- manual reset
- low pressure loss
- flameproof

max. service pressure:

16 bar

(dependant upon body material and size)

series 304:

16 bar

sizes:

DN 50 & DN 80 DN 100, DN 150, DN 200

series 304:

7 bar

sizes:

DN 250 & DN 300

solenoid:

24 V DC

current rating:

3.65 Amps

power consumption:

88 Watts

sizes:

DN 50, DN80, DN 100, 150, DN 200,
DN 250, DN 300

temperature range:

-20°C to +60°C

dimensions and weights

size	2"	DN 50	DN 80	DN 100	DN 150	DN 200	DN 250	DN 300
face-to-face (mm)	225	230	276	292	178	210	241	279
weight in kg	23	28	36	40	866	130	185	250

integral safety shut-off valve



- ❑ designed to be incorporated as an integral safety cut-off valve on all body sizes of the following regulators:
 - series 240/241
 - series 270
 - series 204
- ❑ for natural gas and all non-corrosive gaseous media
- ❑ automatic operation by an overpressure- (OPCO) or over- and underpressure condition (UPCO/OPCO)
- ❑ positive shut-off without an external power supply
- ❑ manual reset
- ❑ easy maintenance
- ❑ rapid response to pressure load changes

max. valve chamber pressure: 11 bar

available in 4 models:

- series 309 LP

OPCO	0.035 to 0.600 bar
UPCO/OPCO: UPCO	0.040 to 0.055 bar
OPCO	0.010 to 0.030 bar

- series 309 MP1

OPCO	0.055 to 0.600 bar
UPCO/OPCO: UPCO	0.050 to 0.150 bar
OPCO	0.055 to 0.600 bar

- series 309 MP2

OPCO	0.500 to 2.960 bar
UPCO/OPCO: UPCO	0.050 to 0.150 bar
OPCO	0.500 to 2.900 bar

- series 309 MP4

OPCO	2.000 to 4.000 bar
UPCO/OPCO: UPCO	0.050 to 0.150 bar
OPCO	2.000 to 4.000 bar

temperature range: -20°C to +60°C

dimensions and weights				
model	309 LP	309 MP1	309 MP2	309 MP4
face-to-face (mm)	110	110	110	110
weight in kg	0.60	1.9	2.0	2.2

adjustable pressure ranges				
model	spring number	colour	overpressure range in bar	underpressure range in bar
309 LP OPCO	861	brown	0.035 to 0.090	-
	1103	gold	0.080 to 0.130	-
	1104	purple	0.120 to 0.250	-
	1254	red	0.340 to 0.500	-
	1255	green	0.450 to 0.600	-
309 LP UPCO/OPCO	1109	grey	0.040 to 0.055	-
	1110	green	0.050 to 0.110	-
	1111	silver	0.110 to 0.200	-
	1140	silver/red	0.150 to 0.250	-
	1138	blue/green	-	0.010 to 0.030
309 MP1 OPCO	1158	white	0.055 to 0.100	-
	1159	gold	0.100 to 0.140	-
	1160	purple	0.130 to 0.250	-
	1130	white/yellow	0.250 to 0.400	-
	1131	white/green	0.330 to 0.600	-
309 MP1 UPCO/OPCO	1158	white	0.055 to 0.100	-
	1159	gold	0.100 to 0.140	-
	1160	purple	0.130 to 0.250	-
	1130	white/yellow	0.250 to 0.400	-
	1131	white/green	0.330 to 0.600	-
	1104	purple	-	0.050 to 0.150
309 MP2 OPCO	1132	white/blue	0.5 to 0.8	-
	1133	white/red	0.7 to 1.1	-
	1134	white/grey	1.0 to 1.8	-
	1135	white/brown	1.5 to 2.9	-
309 MP2 UPCO/OPCO	1132	white/blue	0.5 to 0.8	-
	1133	white/red	0.7 to 1.1	-
	1134	white/grey	1.0 to 1.8	-
	1135	white/brown	1.5 to 2.9	-
	1104	purple	-	0.050 to 0.150
309 MP4 OPCO	1192	white/purple	2.0 to 4.0	-
309 MP4 UPCO/OPCO	1192	white/purple	2.0 to 4.0	-
	1104	purple	-	0.050 to 0.150

NOTE:

- The minimum overpressure cut-off setting (OPCO) should be 0.035 bar or 10% above the regulator setting, whichever is the higher.
If an internal relief valve is fitted to the regulator, the minimum setting should be increased to 0.07 bar.
- The minimum differential pressure between overpressure (OPCO) and underpressure (UPCO) setting is 0.045 bar on the 309 LP / 309 MP1, and 0.085 bar on the 309 MP2 / 309 MP4.
If an internal relief valve is fitted, add 0.035 bar to minimum differential.

integral safety shut-off valve

- designed to be incorporated as an integral safety cut-off valve on all body sizes of the following regulators:
 - series 204
 - series 275
 - series 276
- for natural gas and all non-corrosive gaseous media
- automatic operation by an overpressure condition (OPCO)
- positive shut-off without an external power supply
- manual reset
- easy maintenance
- rapid response to pressure load changes

max. valve chamber pressure:
70 bar

available in 3 models:

- series 315 LP OPCO - 0.05 to 0.35 bar
- series 315 MP OPCO - 0.35 to 4 bar
- series 315 HP OPCO - 3.0 to 14 bar

temperature range:
-20°C to +60°C

adjustable pressure ranges			
model	spring number	colour	overpressure range in bar
305 LP	861	brown	0.035 to 0.090
	1103	gold	0.080 to 0.130
	1104	purple	0.120 to 0.250
	1105	black	0.200 to 0.350
305 MP	1131	white/green	0.350 to 0.550
	1132	white/blue	0.500 to 0.800
	1133	white/red	0.700 to 1.100
	1134	white/grey	1.0 to 1.8
	1135	white/brown	1.5 to 2.9
	1192	white/purple	2.0 to 4.0
315 HP	1192	white/purple	3.0 to 4.0
	1197	blue	4.0 to 14.0

* Minimum OPCO setting - 0.035 bar or 10% above regulator setting, whichever is the higher.

dimensions and weights			
	315 LP	315 MP	315 HP
face-to-face in mm	265	290	290
weight in kg	5	5	5