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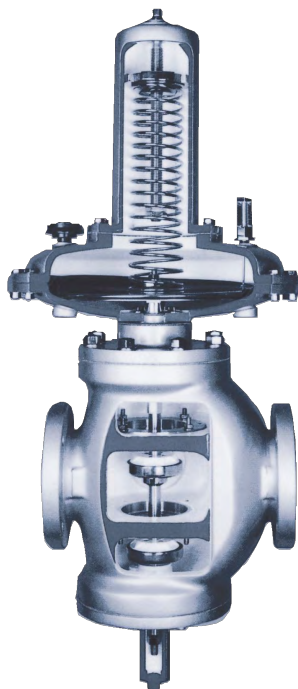
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# РЕГУЛЯТОРЫ ДАВЛЕНИЯ

## Технические характеристики

### на HON 800 Maxflo





## GAS PRESSURE REGULATOR SERIES 800 MAXFLO™ (402)

Introduction, Application, Features, Technical Data

### Introduction

- The Series 800 Maxflo™/RMG 402 is a pilot operated gas pressure regulator. Utilisation of integral/external pilots ensure a constant outlet pressure independent of flow rate and inlet pressure variations.
- Use with confidence on natural and manufactured gases of non-aggressive nature, including Nitrogen, Carbon Dioxide, Propane and Butane.

### Application

- Designed for use on gas pressure reduction services for municipal distribution, industrial and power station control systems

### Features

- Wide operational pressure range
- Pilot operated for accurate control
- In Line Servicing
- Completely independent operation of regulator and safety cut-off valve
- Regulator can be fitted with an integral Over Pressure (OPCO) or Under/Over Pressure (UPCO/OPCO) Safety Cut-Off valve. These devices protect the downstream system in the event that a dangerous gas pressure condition develops.
- Optional trip indicator to show open/closed condition (safety cut-off valve)
- Optional noise reduction

SIZE RANGE			
Ductile Iron Body (800)		Cast Steel Body (402)	
Inlet	Outlet	Inlet	Outlet
-	-	25	25
DN50	DN 50	50	50
-	-	50	100
DN 80	DN 80	80	80
-	-	80	150
DN 100	DN 100	100	100
-	-	100	200
Flanges to: PN16, PN25 BS EN 1092-2 ANSI 150		Flanges to: PN16, PN25 PN40, BS EN 1092-2 ANSI 150, ANSI 300*	

SERVICE CONDITIONS	
Maximum Inlet Pressure: (dependent on body material and pilot)	Up to 50 barg (725 psig)
Outlet Pressure Range: (dependent on pilot)	0.02 to 40 barg (0.29 to 580 psig)
Minimum Differential Pressure:	0.5 barg (7.25 psig)
Temperature Range:	-20°C to +60°C

\* Note: RMG 402 Steel Body Version supplied for Class 300 (50 barg) applications

CONTROL CLASSIFICATIONS			
Pilot Type	Outlet Pressure Range (Pa)	Control	Closing
	barg	Accuracy (RG)	Accuracy (SG)
RMG 620	0.02 - 0.03	10*/20	30*/50
	>0.03 - 0.10	5*/10	20*/30
	>0.10 - 0.50	5*/10	10*/20
	>0.5 - 2.5	5	10
RMG 630	0.3 - 0.5	20	30
	>0.5 - 1	10	20
	>1 - 5	2.5	10
	>5 - 90	1	5
RMG 640a	0.3 - 1	20*/30	30*/50
	>1 - 3	20	30
	>3 - 5	10	20
	>5	2.5	10

Note: Alternative pilots may be used to suite specific applications and accuracy requirements. Accuracy classes in accordance with DVGW Certificate 96/395/4301/778

\* Better accuracy and lock-up classes apply if Inlet Pressure Variation < 8 barg



## GAS PRESSURE REGULATOR SERIES 800 MAXFLO™ (402)

### Pilot & Safety Cut-Off Valve Selection

PILOT SELECTION					
Pilot Type	Max. Inlet Pressure	Set Point Spring			Outlet Pressure Range
		No.	Colour	Wire dia. (mm)	barg
RMG 620 (integral)	25 barg* (362.5 psig)	2	Blue	3.6	0.02 - 0.15
		3	Yellow	5.6	0.1 - 0.5
		4	Brown	6.3	0.2 - 1
		5	Red	7.0	0.5 - 2
		6	Green	8.7	1 - 4
RMG 630 (integral)	50 barg* (725 psig)	1	Blue	3.6	0.5 - 2
		2	Black	4.5	1 - 5
		3	Grey	5	2 - 10
		4	Brown	6.3	5 - 20
		5	Red	7	10 - 40
Load limiting stage			Green	5.0	5 - 15 (above outlet pressure)
Series 600	25 barg (362 psig)	See Series 600 table below			

### Application Notes

- RMG 620 Integral Pilot – for use when low outlet pressures are required (0.02 to 1 barg/0.29 to 2.9 psig)
- RMG 630 Separate 2-Stage Pilot – for use at higher (above 1 barg/14.5 psig) outlet pressures when inlet pressure variations can be greater than 15 barg (217.5 psig)
- RMG 640a Separate Single Stage Pilot – for use at higher (above 1 barg/14.5 psig) outlet pressures when inlet pressure variations are less than 15 barg (217.5 psig)

SAFETY CUT-OFF VALVE					
Model	Type	Spring		Cut-Off Range	
		Number	Colour	barg	psig
MP1	OPCO	1158	White	0.055 - 0.09	0.8 - 1.3
		1159	Gold	0.08 - 0.14	1.16 - 2.03
		1160	Purple	0.13 - 0.25	1.89 - 3.63
		1130	White/Yellow	0.25 - 0.4	3.63 - 5.8
		1131	White/Green	0.33 - 0.6	4.79 - 8.7
MP2	OPCO	1132	White/Blue	0.5 - 0.68	7.2 - 11.6
		1133	White/Red	0.7 - 1.1	10.1 - 16
		1134	White/Grey	1 - 1.8	14.5 - 26.1
		1135	White/Brown	1.5 - 2.9	21.7 - 42
MP4	OPCO	1192	White/Purple	2 - 4	29 - 58
MP5	OPCO	1192	White/Purple	Nested	43.5 - 87
		1132	White/Blue	3.0 - 6.0	
MP1	UPCO	1104	Purple	0.05 - 0.15	0.72 - 2.2
MP2		Black	0.10 - 0.30	1.4 - 4.3	
MP4		Green	0.25 - 0.70	3.6 - 10.1	
MP5		Black/White	0.64 - 1.6	9.2 - 23.2	
HP	OPCO	1197	Blue	3 - 14	43.5 - 203
		1104	Purple	0.055 - 0.4	0.8 - 1.3
	UPCO	1105	Black	0.45 - 0.82	6.5 - 11.9
		1255	Green	0.60 - 1.80	8.7 - 26.1
		1028	Black/White	2.0 - 3.5	29 - 50.7

\*Higher trip ranges are available utilising the RMG range of safety cut-off valves - contact BD-RMG for details

SINGLE STAGE PILOT - SERIES 600			
Pilot Type	Range barg	Spring Number	Colour/Wire Diameter
600 LP	0.015 to 0.14	1047	Blue
	0.025 to 0.2	TX002	3.7mm
	0.15 to 0.5	TX003	Lt Blue/4.5mm
600 MP	0.14 to 0.35	1047	Blue
	0.35 to 2.0	TX002	3.7mm
	2.0 to 4.0	TX003	Lt Blue/4.5mm
600 HP	0.7 to 4.0	TX002	3.7mm
	4.0 to 8.0	TX003	Lt Blue/4.5mm

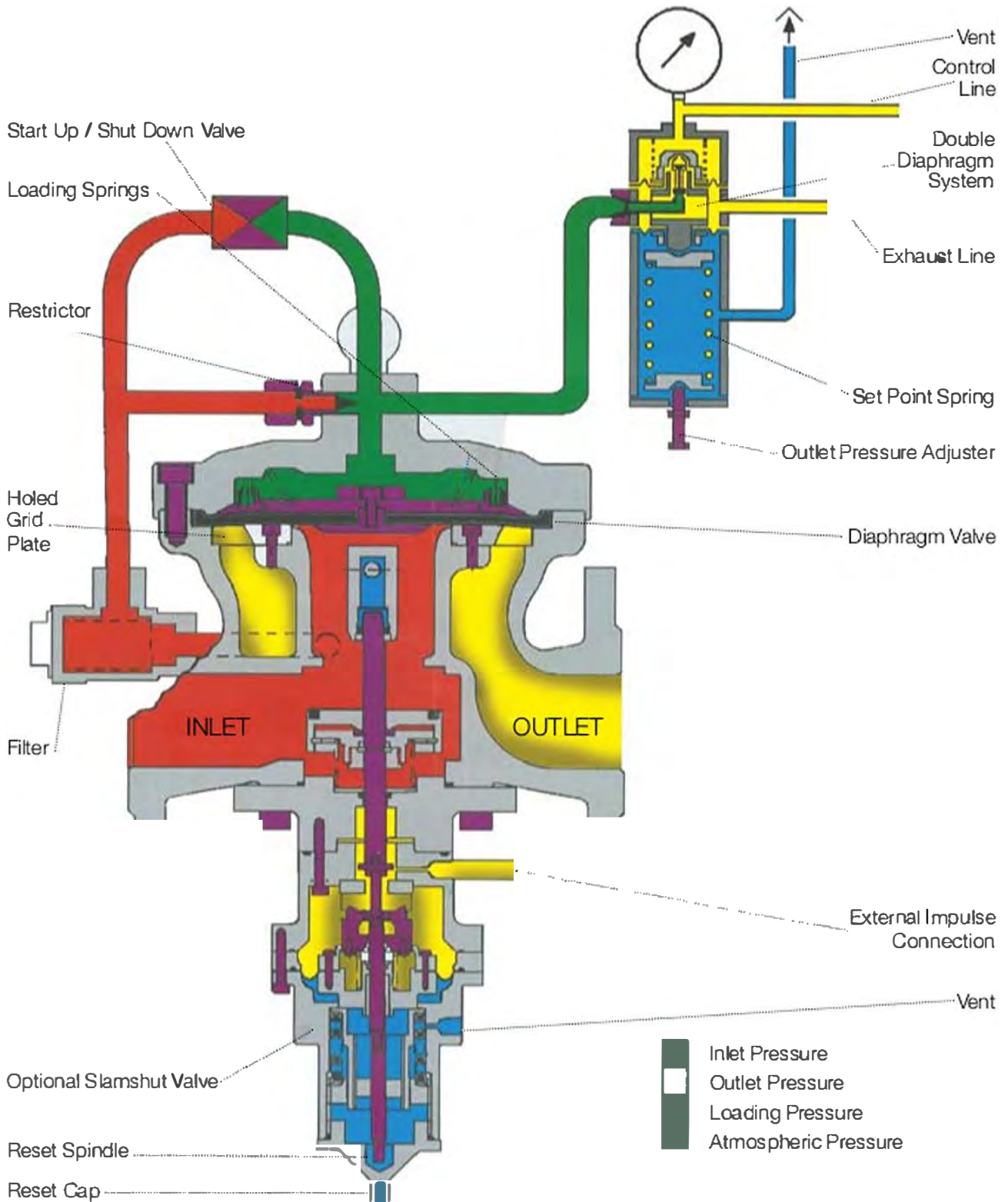
Note: It is recommended that the minimum OPCO setting is 35 mbarg (14" wg) or 10% above regulator set point, whichever is the higher.

A minimum differential pressure of 45 mbarg (18" wg) on the MP1 and 85 mbarg (34" wg) for the MP2, 4 and HP should be maintained between UPCO and OPCO setting.

# GAS PRESSURE REGULATOR SERIES 800 MAXFLO™ (402)

## Sectional Arrangement

### Series 800 (402) with RMG 640a Pilot

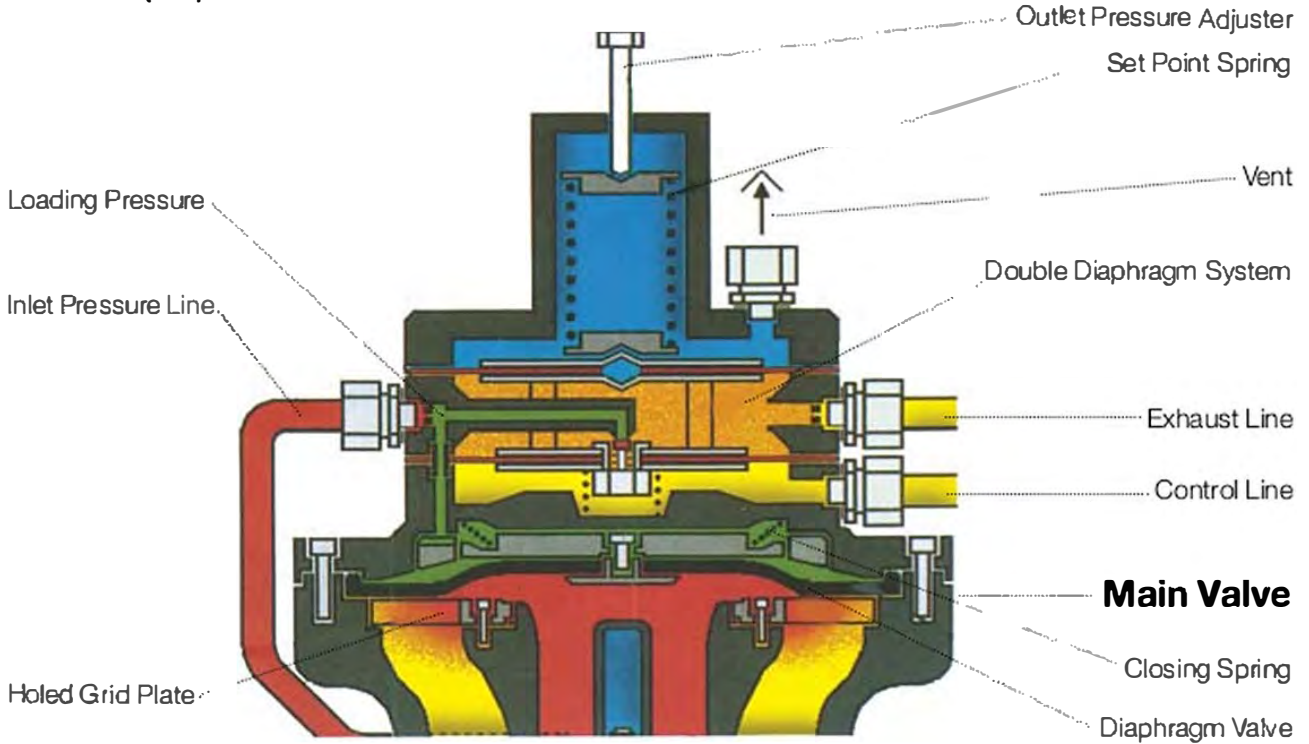




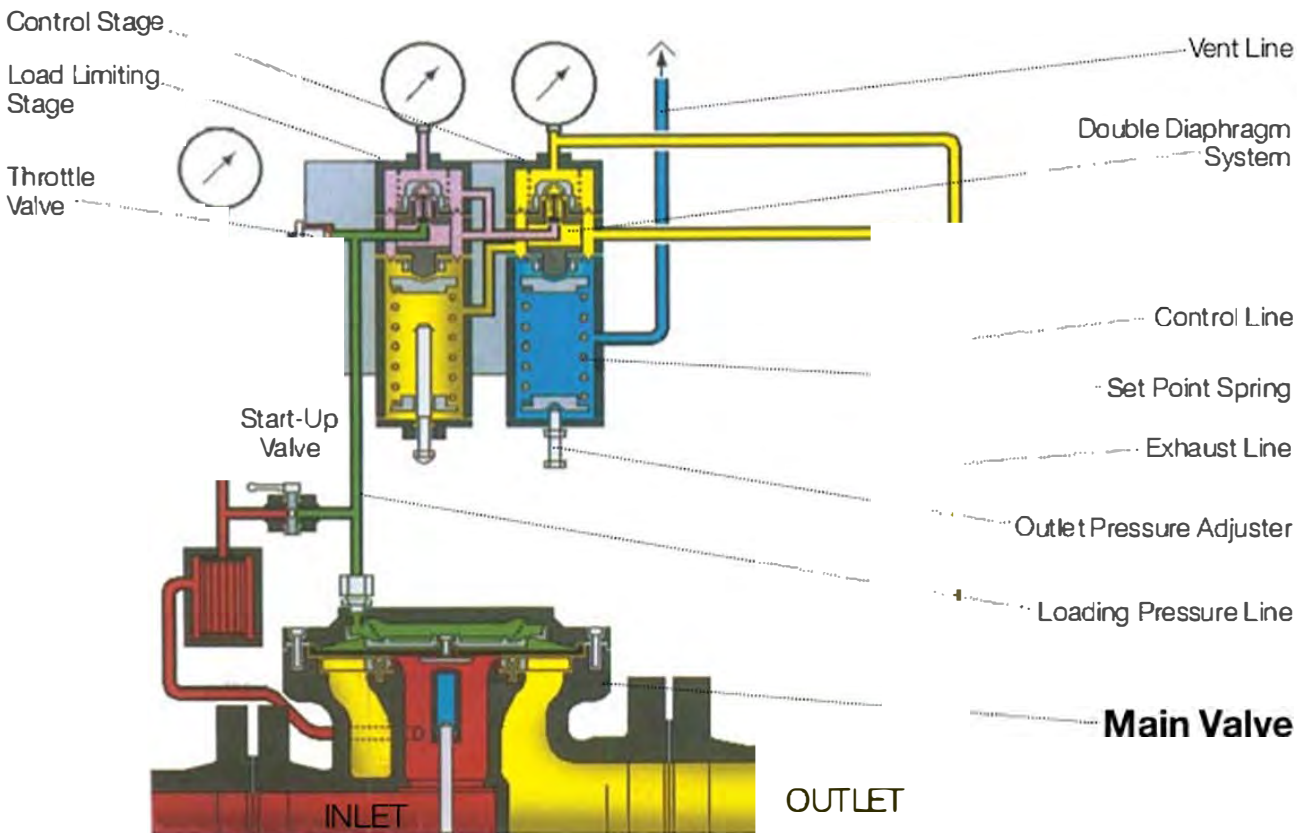
# GAS PRESSURE REGULATOR SERIES 800 MAXFLO™ (402)

Sectional Arrangement

## Series 800 (402) with RMG 620 Pilot



## Series 800 (402) with RMG 630 Pilot





## GAS PRESSURE REGULATOR SERIES 800 MAXFLO™ (402)

### Materials of Construction

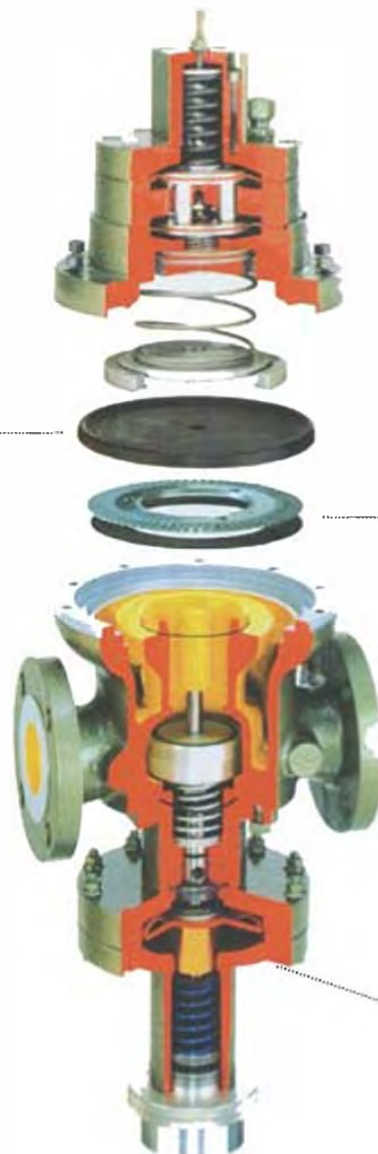
REGULATOR	
Body	Ductile Iron - Series 800 Cast Steel - RMG 402
Valve	Aluminium
Diaphragm	Nitrile
Top Cover	Ductile Iron or Cast Steel
Seals	Nitrile

PILOT	
Body	Ductile Iron or Cast Steel
Diaphragm	Nitrile Reinforced
Seals	Nitrile

SAFETY CUT-OFF VALVE	
Body	Steel
Housings: MP1/2/4	Aluminium
HP	Steel
Diaphragms: MP 1/2/4	Nitrile
HP	Epichlorhydrin Reinforced
Seals	Nitrile

### Ease of Maintenance

Reduced down Time with easy exchange of diaphragm - without removing the body from the pipeline



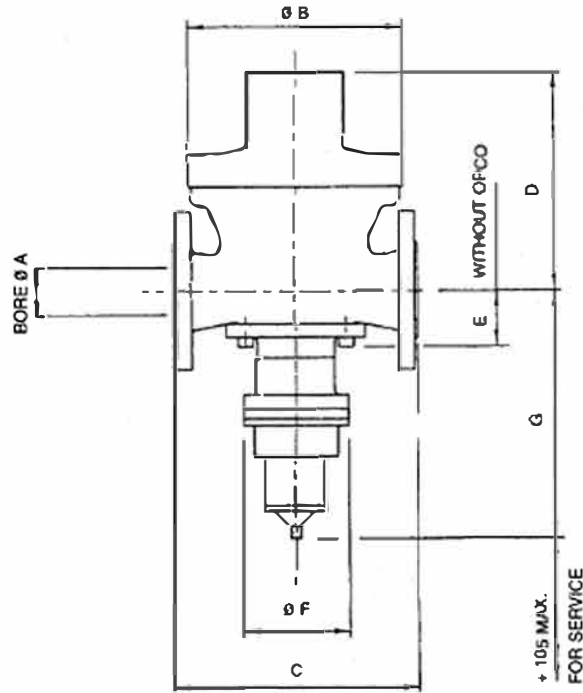
Optional noise reducing ring

Optional safety cut-off valve - cartridge type construction



## GAS PRESSURE REGULATOR SERIES 800 MAXFLO™ (402)

### Dimensions and Weights



DIMENSIONS AND WEIGHTS							
A	B	C		D		E	F
		PN16, PN25 ANSI 150	ANSI 300	RMG 620	RMG 630/640a		
DN 25 (DI)	190	184	-	360	370	105	110
DN 50 (DI)	230	254	-	360	370	105	110
DN 80 (DI)	375	298	-	450	560	105	110
DN 100 (DI)	375	352	-	450	580	105	110
DN 50 (CS)	230	-	267	420	400	105	110
DN 80 (CS)	375	-	318	500	620	105	110
DN100 (CS)	375	-	368	520	630	105	110
DN 50/100 (CS)	230	310	310	370	600	105	110
DN 80/150 (CS)	375	400	400	500	620	105	110
DN 100/200 (CS)	375	430	430	500	630	105	110

DIMENSIONS AND WEIGHTS						
A	G			Weight Kg (with OPKO)		
	MP 1	MP2/4	HP	MP1	MP2/4	HP
DN 25 (DI)	-	-	-	30	30	33
DN 50 (DI)	280	290	310	36	36	39
DN 80 (DI)	305	315	330	81	81	84
DN 100 (DI)	305	315	330	86	86	89
DN 50 (CS)	300	310	330	53	53	56
DN 80 (CS)	305	315	330	98	98	101
DN 100 (CS)	305	315	330	113	113	116
DN 50/100 (CS)	280	290	310	-	-	-
DN 80/150 (CS)	305	315	330	-	-	-
DN 100/200 (CS)	DN 100/200	315	330	-	-	-

All dimensions in mm

DI = Ductile Iron Body

CS = Cast Steel Body

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