

SUBMITTAL for Nat. Gas v.1

Manufacturer: BelGAS

As Specified	
Capacity Required	
Inlet /Outlet Pres.	
Overpres. Limits	

As Submitted	
Capacity	
Droop	
Build-up	

Model: 627

Options Designations:

P: denotes No Internal Relief

R: denotes Internal Relief valve for over-pressure protection*

M: denotes closed throat monitor construction

Specifications:

Spring Color	Adj. Range	Part #
Yellow	5-20 PSIG	655-661-000
Green	15-40 PSIG	655-661-001
Blue	35-80 PSIG	655-661-002

Orifice	MAOP PSIG
3/32"	500
1/8"	500
3/16"	500
1/4"	500
3/8"	300
1/2"	100

Connections*	
Inlet	Outlet
3/4"	3/4"
1"	1"
2"	2"
2"FL	2"FL

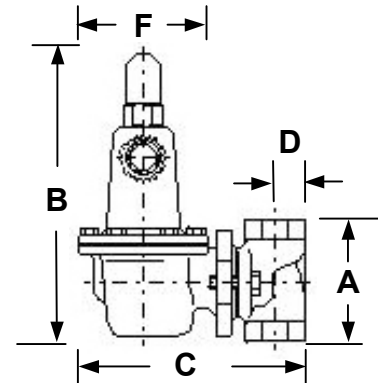
Version: "P" Non relief or "R" versions with larger orifices may need supplemental relief valve.

* NPT unless noted

Assembly:

Valve Body	Ductile Iron (opt: Steel)
Upper Diaph. Case	Aluminum (opt: Steel)
Orifice:	Aluminum (opt: Stainless)
Valve Seat:	Buna-N (opt: Nylon)
Valve Stem:	Stainless Steel 316
Lever:	Zinc & dichromate plated steel
Upper Diaphr Plate	Zinc & dichromate plated steel
Lower Diaph. Plate	Die cast aluminum
Diaphragm:	Buna N & nylon reinforcing mtl.
Diaphragm case:	Die cast aluminum
Vent Screen:	Stainless Steel

Dimensions:



	A	B	C	D	F	Weight
3/4" and 1" NPT	4.08"	9.54"	7.46"	1.00"	4.25"	5.3 lbs.
2" NPT	5.00"	10.06"	8.56"	1.69"	4.25"	8.8 lbs.
1" FL, ANSI 150	7.25"	11.5"	8.87"	2.12"	4.25"	18 lbs.
2" FL, ANSI 150	10.00"	12.88"	10.12"	3.00"	4.25"	25 lbs.

General Note on installation: The regulator comes with a 1" vent with a stainless steel vent screen. On outside installations, regulator should be oriented with the vent pointing down to keep water or ice from entering vent. If regulator is installed with vent pointing up or to the side, vent screen should be removed and a 1" elbow (or elbows) should be installed to position the vent correctly. If installed inside, vent must be piped to a safe outside location in accordance with NFPA 54/NFPA58 recommendations and/or local codes.

Typical Capacity.

Note: Capacity will change as a function of the orifice size, inlet pressure & outlet pressure setting. The capacity tables below are for a typical configuration: a 1" Regulator, with 1/2" orifice. Smaller orifices may have less capacity, but will handle higher inlet pressures (see MAOP above) and provide better overpressure protection. Larger orifices will provide more capacity but may require a supplemental relief valve to meet code. Outlet pipe size* and length may also reduce flow. Consult complete product bulletin for capacities and relief curves of other configurations.

1" 627 Capacity in BTU/hr. Nat Gas						
Inlet Pressure						
Set Point	10 PSIG	20 PSIG	25 PSIG	30 PSIG	60 PSIG	100 PSIG
5 PSIG	2,500,000	4,450,000	5,675,000	6,900,000	13,700,000	16,000,000
10 PSIG		4,410,000	5,625,000	6,840,000	13,700,000	16,000,000
20 PSIG			2,500,000	6,290,000	14,500,000	23,300,000

The 627 Conforms to UL144 and NFPA58

Capacities expressed for 0.63 s.g. Propane, 1" body, with 1/2" orifice, Note: 1 SCF Nat Gas = approx. 1000 BTU