SUBMITTAL

v.4

Manufacturer: Itron
(formerly Actaris / Schlumberger)
Model: B531

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

As Submitted	
Capacity	
Droop	
Build-up	

Options Designations:

	N: denotes No Internal Relief

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

	MR: denotes closed throat monitor construction w/R

Other designations include MN, DN, DR, IMR, IMN, IMRV. Consult full brochure for details

Specifications:

	Spring Color	Adj. Range
	Brown	4.5 – 5.25" w.c.
	Dark Green	5.0 – 6.75" w.c.
	Light Green	5.5 – 7.5" w.c.
	Black	7.0 – 10.0" w.c.
	Blue	8.0 – 11.0" w.c.
	Silver	11.0 – 15.0"w.c.
	Red/gray	0.75 – 1.1 PSIG
	Red/blue	1.1 – 1.5 PSIG
	Yellow	1.3 – 2.0 PSIG
	White	1.75 – 2.5 PSIG

	Orifice	MAOP "w.c. delivery	MAOP PSIG delivery
	1/8"	125	300
	1/8" IM	125	300
	3/16"	125	300
	3/16" IM	125	300
	1/4"	125	300
	1/4" IM	60	300
	5/16"	75	150
	5/16" IM	60	150
	3/8"	60	150
	1/2"	30	100

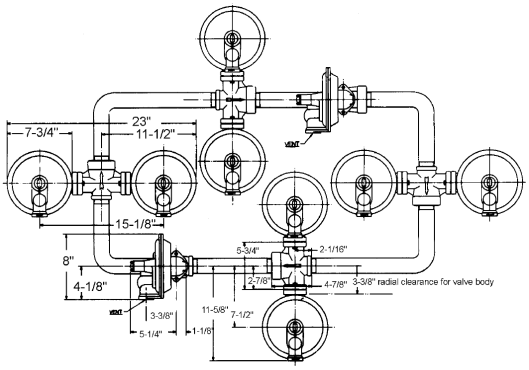
	Connections*	
	Inlet	**Outlet**
	3/4"	3/4"
	3/4"	1 1/4"
	1"	1-1/2"
	1"	2"
	1-1/4"	1-1/4"
	1-1/4"	1-1/2"
	1-1/4"	1-1/2"
	1-1/4"	2"

* NPT unless noted

Assembly:

Valve Body	High Tensile Strength Cast Iron
Orifice:	Brass
Valve Seat:	Buna-N or Silicone
Valve Stem:	Anodized aluminum
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:



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 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 1-1/4" Regulator, with 1/4" orifice. Smaller orifices may have less capacity, but will handle higher inlet pressures (see MAOP above). Outlet pipe size* and length may also reduce flow. Consult complete product bulletin for capacities and relief curves of other configurations.

	Capacity as a Function of Inlet Pressure & Set Point in SCFH				
Set Point	**14" w.c.**	**1 PSIG**	**2 PSIG**	**5 PSIG**	**10 PSIG**
7" w.c.	310	605	830	1460	2220
14" w.c.		620	920	1480	2240
1 PSIG			630	780	1120

Capacities expressed for 0.6 s.g. nat. gas,

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