



# VTS 450 Series / Two Stage Heavy Duty

**UL** Listed  
Conforms to  
**CGA E-4**



**VTS 450**

## APPLICATION & USES

### VTS 450 Series

- Medium to high capacity gas service
- Precise and constant outlet pressure
- Two stage design
- Manifold models available. See page 19, Section A

**Dimensions:** 8" W x 8" H x 7-3/8" D  
(20 cm x 20 cm x 19 cm)

**Weight:** ..... 7 lb. 6 oz. (3.67 kg)

## DESIGN/CONSTRUCTION

- Forged brass body and housing cap
- 2-1/2" gauges brass
- Stem type seat mechanism
- Diaphragm - 2", 3-1/4" (Stainless Steel)
- Delrin® cap bushing for smooth adjustments
- External self reseating relief valve  
Not designed to protect downstream apparatus  
(No relief valve is needed on VTS 460 and VTS 461 series regulators)
- Sintered inlet filter

## PERFORMANCE

Maximum Inlet .....3000 PSIG

Delivery Range .....See chart

## SPECIFICATIONS MATERIALS

Body .....Forged Brass  
Diaphragm..... Stainless Steel  
Housing Cap .....Forged Brass  
Inlet Filter.....Bronze

**NOTE:** Regulators will deliver at least the stated upper range and in some cases may exceed the stated upper range.

## SAMPLE ORDERING INFORMATION

Model No.	Delivery Range	CGA Inlet Connection
<b>VTS 450</b>	<b>D</b>	<b>540</b>

Gas Service	Model No.	Delivery Range (PSIG)	Part No.
Air, Oxygen, Inert Gas	VTS 450 A-580 <sup>04</sup>	2-15	0781-3907
	VTS 450 B-540	2-40	0781-3904
	VTS 450 B-580 <sup>04</sup>	2-40	0781-3908
	VTS 450 D-540	5-125	0781-3905
	VTS 450 D-580 <sup>04</sup>	5-125	0781-3909
	VTS 450 D-590 <sup>05</sup>	5-125	0781-3916
	VTS 450 E-346	10-200	0781-4014
	VTS 450 E-540	10-200	0781-3906
Methane, Hydrogen	VTS 452 B-350	2-40	0781-3959
	VTS 452 D-350	5-125	0781-3963
	VTS 452 E-350	10-200	0781-3964
CO <sub>2</sub> & N <sub>2</sub> O	VTS 453 D-320 <sup>04</sup>	5-125	0781-3974
Acetylene	VTS 460 A-300	2-15	0781-3983
	VTS 460 A-510	2-15	0781-3984
L.P. Gas	VTS 461 B-510	2-40	0781-3993
	VTS 461 D-510	5-125	0781-3994

### Delivery Range Key

**A** 2-15 PSIG, **B** 2-40 PSIG, **D** 5-125 PSIG, **E** 10-200 PSIG

### Outlet Connections: Cylinder Type

9/16" - 18 (M)

<sup>04</sup> = 5/8" - 18 (F) RH

<sup>05</sup> = 5/8" - 18 (F) LH

Flow Chart: Section A, Page 41