



November, 2009

Series 40 Heavy Duty Regulators

Distributors:

Introducing the new Heavy Duty, High Flow, Series 40 Regulator line-up.

The new Series 40 regulators have been designed and built to outperform any similar sized regulator on the market. Series 40 Regulators are constructed with greatly improved design features. The new design provides a family look to complement the Series 30 regulator line-up. Series 40 regulators provide the highest gas flow in their class. Single stage models are available for high pressure as well as liquid cylinders. There are also single gauge models available for manifold station applications.

The number one cause of regulator failure is debris on the high pressure seating surface. The new Series 40 regulator is constructed with a super-fine 15 micron, nickel plated bronze filter which encapsulates the high pressure seat. This filter protects the seating surface from contamination by external debris that may enter the regulator during operation. This in turn will reduce failures and dramatically extend the regulator's service life. Series 40 regulators are constructed with a durable yet sensitive, stainless steel diaphragm for long dependable service life in most any environment.

These new designs are capable of much higher gas flows than the current Smith 1500 series regulator models. Some models are capable of producing flows of over **16,000** SCFH, up to 25% higher than comparable competitor's heavy duty regulators. They also provide extremely accurate outlet pressure of approximately $\pm 2\%$ of the actual gauge reading (center of scale). Decay/Rise is also very low at only .4 PSIG outlet rise per 100 PSIG tank pressure decay, helping maintain consistent and highly accurate outlet pressures and flows. This design eliminates the need for diaphragm replacement in the event of over-pressurization. The stainless steel diaphragm is suitable for use with liquid (cryogenic) gases.

The Series 40 design will replace all 1500 Series regulator models in January of 2010. Cross reference information is on the back of this page and is available on Smith's web site home page smithequipment.com under Technical & Safety Info.

Series 40 Regulators are  Listed and covered by a 3 year limited warranty.

Cylinder regulators are available for acetylene, LP, oxygen, inert and CO₂ gases.

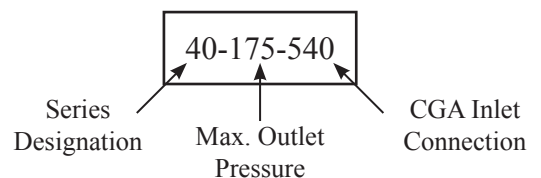
Station/manifold regulators are available for acetylene, LP and oxygen.

Series 40 Regulators will be available January 1, 2010. The current 1500 Series will be available while supplies last through February 2010. The 1500 Series regulators will be replaced with Series 40 regulators in all cutting and welding outfits on January 1, 2010. Pricing for the current 1500 Series and the new Series 40 Regulator will be comparable. Details will be available in the new 2010 master catalog which will be shipped to you in December.

Applications:

- Pressure Regulation, Single Stage
 - Oxy-Fuel Cutting, Welding & Heating
 - High Flows
 - Cryogenics
 - Higher Pressures
 - Manifold Gas Feed
 - Manifold Station Drops

Part Number Interpretation:



If you have any questions regarding this product, please contact Bruce Buhler 605-882-8241.

Bruce A. Buhler
Product Manager

**Smith Regulator Cross Reference
1500 Series to Series 40**

Gas / Type	Model Numbers	
	1500 Series	Series 40
Oxygen-Cylinder	HB1540A-540	40-175-540
Oxygen-Cylinder	HB1540A-540S	40-175-540S
Oxygen-Cylinder	High Pressure Oxygen	40-275-540
Acetylene-Cylinder	HB1520B-300	40-15-300
Acetylene-Cylinder	HB1520B-300S	40-15-300S
Acetylene-Cylinder	HB1521B-510	40-15-510
Acetylene-Cylinder	HB1521B-510S	40-15-510S
LP-Cylinder	HB1522B-510	40-50-510
Inert-Cylinder	HB1530-580	40-275-580
Acetylene/Manifold	HB1579A	46-15
Oxygen/Manifold	HB1575A	46-175
Carbon Dioxide-Cylinder	HB1533-320	40-50-320
LP/Manifold	HB1580A	46-50

(S) at end of part No. designates that regulator comes with Hard Hat gauge protector installed on regulator.

Note: **HB190** Hard Hat™ gauge guard fits all Series 40 dual gauge regulators.



November 10, 2009

“American Classic” Outfits by Smith Equipment

Dear Customer,

In March of last year Smith Equipment introduced a limited range of Oxy / Fuel Cutting, Heating and Brazing outfits featuring our popular MC and SC series cutting equipment. We call these new outfits our “American Classic” series and why not? Smith has been producing the highest quality Oxy / Fuel equipment right here in America’s heartland since 1917.

Based on your positive response we are now proud to announce the expansion of our American Classic product family. Many new American Classic kits will include torch mount flashback arrestors and all new Smith “Series 40” heavy duty regulators featuring our tried and true “Sure Seat” filtered valve seat technology. The new American Classic line will be available in January and will be featured in our new catalog which you will receive in December.

American Classic Series



Display Carton Outfits

Toolbox Outfits



Torch Combo Kits

(See back for details)

Look for more exciting new products from Smith Equipment in coming months and thanks for your continued support.

Best regards,

Joe Beving

Sales Manager
Smith Equipment Co.

American Classic Outfits (Available January, 2010)

Stock No.	Description	Fuel Gas	Torch	Cutting Tip	Hg Tip	Welding Tip	Regulators	Flash Arrestors	Accessories
16205	Torch Combo Kit, MD, Classic	Acetylene	WH100/MC509	MC12-0, 1, 2	MT603	MW203	None	None	None
16206	Torch Combo Kit, HD, Classic	Acetylene	WH200A/SC209	SC12-1, 2, 3	ST602	SW203	None	None	None
16280	Torch Combo Kit, HD Classic	Acetylene	WH200A/SC209	SC12-0, 1	None	None	None	Torch Mount	None
16281	Torch Combo Kit, MD, Classic	Acetylene	WH100/MC509	MC12-0, 1	None	None	None	Torch Mount	None
HB-30510	Outfit, HD, Classic, Display Carton	Acetylene	WH200A/SC209	SC12-1, 2	ST602	SW205	Series 30 (CGA-540/510)	Torch Mount	Tip Cleaner
HB-40300	Outfit, HD, Classic, Display Carton	Acetylene	WH200A/SC209	SC12-1, 2	ST602	SW205	Series 40 (CGA-540/300)	Torch Mount	Tip Cleaner
HB-40510	Outfit, HD, Classic, Display Carton	Acetylene	WH200A/SC209	SC12-1, 2	ST602	SW205	Series 40 (CGA-540/510)	Torch Mount	Tip Cleaner
HBA-40300	Outfit, HD, Classic, Display Carton	Acetylene	WH200A/SC209	SC12-1, 2	ST602	SW205	Series 40 (CGA-540/300)	Torch Mount	Hose, Striker, Goggles, Tip Cleaner
HBA-40510	Outfit, HD, Classic, Display Carton	Acetylene	WH200A/SC209	SC12-1, 2	ST602	SW205	Series 40 (CGA-540/510)	Torch Mount	Hose, Striker, Goggles, Tip Cleaner
HTA-30300	Outfit, HD, Classic, Toolbox	Acetylene	WH200A/SC209	SC12-1, 2	ST602	SW205	Series 30 (CGA-540/300)	Torch Mount	Hose, Striker, Goggles, Tip Cleaner
HTA-30510	Outfit, HD, Classic, Toolbox	Acetylene	WH200A/SC209	SC12-1, 2	ST602	SW205	Series 30 (CGA-540/510)	Torch Mount	Hose, Striker, Goggles, Tip Cleaner
HTAS-30300	Outfit, HD, Cutting Only, Classic, Toolbox	Acetylene	SC229	SC12-1, 2	None	None	Series 30 (CGA-540/300)	Torch Mount	Hose, Striker, Goggles, Tip Cleaner
HTAS-30510	Outfit, HD, Cutting Only, Classic, Toolbox	Acetylene	SC229	SC12-1, 2	None	None	Series 30 (CGA-540/510)	Torch Mount	Hose, Striker, Goggles, Tip Cleaner
MB-30510	Outfit, MD, Classic, Display Carton	Acetylene	WH100/MC509	MC12-0, 1	MT603	MW205	Series 30 (CGA-540/510)	Torch Mount	Tip Cleaner
MBA-30300	Outfit, MD, Classic, Display Carton	Acetylene	WH100/MC509	MC12-0, 1	MT603	MW205	Series 30 (CGA-540/300)	Torch Mount	Hose, Striker, Goggles, Tip Cleaner
MBA-30510	Outfit, MD, Classic, Display Carton	Acetylene	WH100/MC509	MC12-0, 1	MT603	MW205	Series 30 (CGA-540/510)	Torch Mount	Hose, Striker, Goggles, Tip Cleaner
MC-300T	Outfit, MD, Classic, Toolbox	Acetylene	WH100/MC509	MC12-1	MT603	MW205	Series 30 (CGA-540/300)	None	Hose, Striker, Goggles,
MC-510T	Outfit, MD, Classic, Toolbox	Acetylene	WH100/MC509	MC12-1	MT603	MW205	Series 30 (CGA-540/510)	None	Hose, Striker, Goggles,
MTA-30300	Outfit, MD, Classic, Toolbox	Acetylene	WH100/MC509	MC12-0, 1	MT603	MW205	Series 30 (CGA-540/300)	Torch Mount	Hose, Striker, Goggles, Tip Cleaner
MTA-30510	Outfit, MD, Classic, Toolbox	Acetylene	WH100/MC509	MC12-0, 1	MT603	MW205	Series 30 (CGA-540/510)	Torch Mount	Hose, Striker, Goggles, Tip Cleaner
SC-300T	Outfit, HD, Classic, Toolbox	Acetylene	WH200A/SC209	SC12-1	ST602	SW205	Series 30 (CGA-540/300)	None	Hose, Striker, Goggles,
SC-510T	Outfit, HD, Classic, Toolbox	Acetylene	WH200A/SC209	SC12-1	ST602	SW205	Series 30 (CGA-540/510)	None	Hose, Striker, Goggles,
XHBS-40510	XHD, Cutting Only, Gas-Axe, Carton	Acetylene	SC929	SC12-1	None	None	Series 40 (CGA-540/510)	Torch Mount	None
XHTAS-30510	XHD, Cutting Only, Gas-Axe, Toolbox	Acetylene	SC929	SC12-1, 2	None	None	Series 30 (CGA-540/510)	Torch Mount	Hose, Striker, Goggles, Tip Cleaner