Diversco

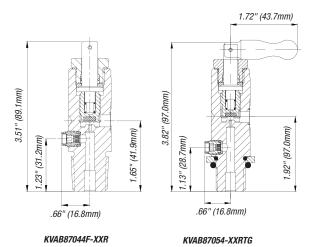
SHERWOOD VALVE COMPRESSED GAS PRODUCTS

Medical Valves

KVAB Series

Post Medical Valves





Post-type medical valves for "F" and "D" type cylinders and used for all CCA-860 yokes.

Key Features & Benefits

- Inert PTFE packing provides leak-free stem seal, long cycle life and resistance to corrosion
- Secondary 0-ring helps to provide a secure seal under vacuum purging and low-pressure operation
- Strong, durable body is made from extruded brass rod and coated with a protective chrome finish
- · Chamber design protects threads and stem from damage
- Exceptional machining finishes for low-torque sealing and long packing life
- Durable lower plug is made of tough naval brass and coated with PTFE for lubricity
- Copper sealing gasket provides permanent, leak-resistant bonnet seal
- Pressure Relief Device is an integrated assembly to ensure proper assembly and to resist tampering
- Designed for use with all yokes made to CGA 860 drawing specifications
- · Available in wrench or toggle type
- Nominal stroke is 1.5 turns, full flow at 1/3 turn
- Cleaned for oxygen service and oil free per CGA G-4.1
- For Date Code Tables, see pages 67-68

Design Specifications					
	English	Metric			
Maximum Working Pressure	3000 PSI	207 Bar			
Burst Pressure	12,000 PSI	827 Bar			
Operating Temperature Range	-50° F → +149° F	-45° C → +65° C			
Storage Temperature Range	-65° F → +155° F	-54° C → +68° C			
Leak Rate Internal/External	1x10 ⁻³ cc/sec.	1x10 ⁻³ Bar mL/sec.			
Cv Flow Factor	Standard: .102				
Minimum Cycle Life	5000 Cycles				
Opening Torque	8–10 inlbs	1–1.1 N-m			
Closing Torque	8–10 inlbs	1–1.1 N-m			
Bonnet Torque	25-30 ftlbs.	33.9-40.6 N-m			
PRD Torque	50–65 inlbs.	5.6-7.3 N-m			

Standards Conformance				
CGA V-9	Standard for Compressed Gas Cylinder Valves			
CGA S1.1	Standard for Pressure Relief Devices			
CGA V-1	Compressed Gas Cylinder Valve Outlet and Inlet Specifications			
A-A-59860	US General Services Administration Standards for Gas Cylinder Valves			



SHERWOOD VALVE COMPRESSED GAS PRODUCTS

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Post Medical Valves

Materials of Construction					
Sherwood Part Number	Part Description	Materials of Construction			
N/A	Body	Brass C36000, Chrome Plated			
6519	Packing Washer	Copper			
6503SH					
Bonnet		Brass C36000, Nickel Plated			
Stem	Bonnet & Stem Assembly	Brass C36000, Nickel Plated			
Packing	Dolliet & Stelli Assembly	PTFE			
0-Ring		Viton®			
Backup Ring		PTFE			
6527SH	Spring	316 Stainless Steel			
6507A-17N					
Plug	Seat Assembly	Leaded Naval Brass C48500, PTFE Coated			
Seat Insert		Nylon, Zytel 101			
1-K655B-2	Flange Ring	Brass C36000, Nickel Plated			
G908H	Flange 0-Ring	Viton®			
6513MFA-XXKIT (25 pieces)	Safety Assembly	165° Eutectic Alloy			
6513MFB-XXKIT (25 pieces)	Jaiety Assembly	103 Lutectic Alloy			
9-K655B-2					
Plug	Pressure Relief Device	Brass C36000, Nickel Plated			
Disc	Trossure Helier Device	Nickel			
Gasket		Nylon, Zytel 101			
9-4000-60-XX KIT					
Plug	Pressure Relief Device	Brass C36000, Nickel Plated			
Disc	Fressure neller Device	Nickel			
Gasket		Nylon, Zytel 101			
1-KTS-1C	Toggle	Diecast Aluminum, Chrome Plated			
J250608B (old style)	Toggle Pin	303 Stainless Steel			
J33-09308SS (new style)	Toggle Pin	303 Stainless Steel			

Inlet O-Ring for Straight Threaded KVAB Series Medical Valves						
Sherwood Inlet Size Material Part Number						
G210J	.750-16 UNF	Viton				
G210T	.750-16 UNF	PTFE				

Lubricants

KVAB valves require no lubrication on any internal component except for the stem 0-ring and the copper gasket. The lubrication used on these parts MUST be oxygen compatible. Sherwood recommends the use of Christo-Lube, Fluorolube® GR362, Krytox® 240AB or an equivalent lubricant.



SHERWOOD VALVE COMPRESSED GAS PRODUCTS

Medical Valves

KVAB Series

Post Medical Valves

For further information, see Data Code Tables on page 67-68.

Ordering Information						
Sherwood Part Number	Gas Service	Safety	CGA Outlet	Pin Indexing Hole Numbers	Inlet Thread Size	
KVAB87044F-XX KVAB87054-XX	Oxygen	CG-4	870	Pins #2 and #5	½"-14 NGT .750-16 UNF-2A	
KVAB88044F-XX KVAB88054-XX	Oxygen and Carbon Dioxide Mixtures	CG-4	880	Pins #2 and #6	½"-14 NGT .750-16 UNF-2A	
KVAB89044F-XX KVAB89054-XX	Oxygen and Helium Mixtures	CG-4	890	Pins #2 and #4	½"-14 NGT .750-16 UNF-2A	
KVAB91041-XX KVAB91051-XX	Nitrous Oxide	CG-1	910	Pins #3 and #5	½"-14 NGT .750-16 UNF-2A	
KVAB93044F-XX KVAB93054-XX	Helium	CG-4	930	Pins #4 and #6	½"-14 NGT .750-16 UNF-2A	
KVAB94041-XX KVAB94051-XX	Carbon Dioxide	CG-1	940	Pins #1 and #6	½"-14 NGT .750-16 UNF-2A	
KVAB95044F-XX KVAB95054-XX	Air	CG-4	950	Pins #1 and #5	½"-14 NGT .750-16 UNF-2A	
KVAB96044F-XX KVAB96054-XX	Nitrogen	CG-4	960	Pins #1 and #4	½"-14 NGT .750-16 UNF-2A	
KVAB96541-XX KVAB96554-XX	Nitrous Oxide and Oxygen Mixtures	CG-1 CG-4	965	Pin #7	½"-14 NGT .750-16 UNF-2A	
KVAB97344-XX KVAB97354-XX	Medical Gas Mixtures	CG-4	973	Pins #11 and #24	½"-14 NGT .750-16 UNF-2A	

OPTIONS

- All valves are supplied with rupture discs rated for 2015 PSI Working Pressure cylinders. Rupture discs rated for other Working Pressures available on request.
- To order 1/8"–27 NPT modified gauge port, add "G" to end of Part Number (e.g. KVAB87054-32G).
- To order rugged diecast aluminum toggle lever, add "TG" to end of Part Number (e.g. KVAB87054-32 becomes KVAB87054-32TG).
- To order PTFE inlet O-ring, add "R" to end of Part Number (e.g. KVAB87054-32 becomes KVAB87054-32R). THIS OPTION ONLY AVAILABLE ON .750–16 UNF-2A INLET VALVES. XX = PRD Safety

Key Replacement Parts							
	re Relief Device ood Part Number			Color-Coded Ring	Disc Rupture Range PSI @ 160° F		
CG-1 No Fuse Metal	CG-4 165° F Fuse Metal	-XX	Cylinder Working Pressure	to Designate Pressure (6513 MFX only)	Min.	Max.	
Pressure Relief Devi	Pressure Relief Devices*						
9-4000-60-28	6513MFA-28	-28	1800 PSI	Orange	2700	3000	
9-4000-60-32	6513MFB-32	-32	2015 PSI	None	3025	3360	
9-4000-60-48	6513MFA-48	-48	3000 PSI	Black	4500	5000	

^{*} Available in Pressure Relief Device Kits (see below).

Pressure Relief Device Kits			
Sherwood Part Number	Description		
6513MFA-28KIT	25 PRD Assemblies		
6513MFB-32KIT	25 PRD Assemblies		
6513MFA-48KIT	25 PRD Assemblies		



TL-KTS-C Tool for Insertion/Crimping to replace KVAB toggle 1-KTS-1C and toggle pin J33-09308SS

SHERWOOD VALVE COMPRESSED GAS PRODUCTS

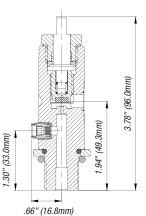
Medical Valves

KVMB Series

Post Medical Valves for Use in Magnetic Resonance Imaging (MRI) Environments







KVMB87054-XXR

Key Features & Benefits

- Special construction process significantly reduces magnetic attraction
- Meets all known tests for MRI-conditional components used in conjunction with a magnetic resonance imager for Level 3 Tesla requirements
- · Clearly identified for hospital settings
- · ASTM standard F 2503-05 marking
- Inert PTFE packing provides leak-free stem seal and resistance to corrosion
- Secondary 0-ring helps to provide a secure seal under vacuum purging and low-pressure operation
- Strong, durable body is made from extruded brass rod and coated with a protective chrome finish
- · Chamber design protects threads and stem from damage
- Exceptional machining finishes for low-torque sealing and long packing life
- Durable lower plug is made of tough naval brass and coated with PTFE for lubricity
- Copper sealing gasket provides permanent, leak-resistant bonnet seal
- Pressure Relief Device (PRD) is a single unit to ensure proper assembly and to resist tampering
- For use with all yokes made to CGA 860 drawing specifications
- Available in wrench, toggle or handwheel type
- Nominal stroke is 1.5 turns, full flow at ⅓ turn
- Cleaned for oxygen service and oil free per CGA G-4.1
- For Date Code Tables, see pages 67-68
- · Refer to KVAB Series for more design specifications

Ordering Information						
Sherwood Part Number	Gas Service	Safety	CGA Outlet	Pin Indexing Hole Numbers	Inlet Thread Size	
KVMB95054-XX	Air	CG4	950	Pins #1 and #5	.750-16 UNF-2A	
KVMB91051-XX	Nitrous Oxide	CG1	910	Pins #3 and #5	.750-16 UNF-2A	
KVMB87054-XX	Oxygen	CG4	870	Pins #2 and #5	.750-16 UNF-2A	

OPTIONS

- To order rugged diecast aluminum toggle lever, add "TG" to end of Part Number (e.g. KVMB87054-32R) becomes (KVMB87054-32RTG).
- To order PTFE inlet 0-ring, add "R" to end of Part Number (e.g. KVMB87054-32 becomes KVMB87054-32R). THIS OPTION ONLY AVAILABLE ON .750–16 UNF-2A INLET VALVES. XX= PRD Safety