



8800 Series	Standard Materials of Construction		
Body	Cast Carbon Steel ASTM A216-WCC, Chrome Plated Bore		
Bonnet	Carbon Steel ASTM A36/A516 Gr. 70 Plate, or Cast Equivalent		
Lower Plate	Carbon Steel ASTM A36/A516 Gr. 70 Plate, or Cast Equivalent		
Plug	Ductile Iron ASTM A395 Gr. 60-40-18, Electroless Nickel Coated for valves 8 in. to 12 in. Larger sizes ASTM A216 WCB, Electroless Nickel Plated		
Stem	ASTM A564 Type 630 17-4 PH SS for valve sizes 8 in. to 12 in.		
Slips	Ductile Iron ASTM A395 60-40-18, Manganese Phosphate Coated		
Gland	ASTM A747 17-4 PH SS		
Gland Packing	Graphite		
Fasteners	ASTM A193-B7		
O-Rings & Slip Seals	Viton		
800 Series	Standard Materials of Construction		
Body	Cast Carbon Steel ASTM A216-WCC, Chrome Plated Bore		
Bonnet	Carbon Steel ASTM A36/A516 Gr. 70 Plate, or Cast Equivalent		
Lower Plate	Carbon Steel ASTM A36/A516 Gr. 70 Plate, or Cast Equivalent		
Plug	Cast Carbon Steel ASTM A216-WCB, Electroless Nickel Coated		
Stem	Cast Carbon Steel ASTM A216 WCB, Electroless Nickel Coated		
Slips	Ductile Iron ASTM A395 Gr.60-40-18, Manganese Phosphate Coated		
Gland	ASTM A36 Plate		
Gland Packing	Graphite		
Fasteners	ASTM A193 Gr. B7/2H		
O-Rings & Slip Seals	Viton		
200 Series	Standard Materials of Construction		
Body	Cast Carbon Steel ASTM A216-WCC, Chrome Plated Bore		
Bonnet	Carbon Steel - ASTM A105 Forged Steel, or Cast Equivalent		
Lower Plate	Carbon Steel - ASTM A105 Forged Steel, or Cast Equivalent		
Plug	Ductile Iron ASTM A536 GR 80-55-06, Electroless Nickel Coated		
Slips	Ductile Iron ASTM A536 GR 65-45-12, Manganese Phosphate Coated		
Gland	ASTM A216 WCC		
Gland Packing	Graphite		
Fasteners	ASTM A193 Gr. B7/2H		
O-Rings & Slip Seals	Viton		

Other materials available upon request. Material Test Reports (MTR's) are available on all pressure vessels components

ISO 9001 License.

API 6D Monogramable.

API 6FA (3rd Edition) Fire Safe Certified.

STD Carbon Steel Safety Bleed/DTR System

GENERAL TWIN SEAL STANDARD MATERIALS OF CONSTRUCTION

Valve Series	200	8800	800
Body	Cast Carbon Steel - ASTM A216 WCC (1)	Cast Carbon Steel - ASTM A216 WCC (1)	Cast Carbon Steel - ASTM A216 WCC (1)
Bonnet/Lower Plate	Carbon Steel - ASTM A105 Forged Steel (2)	Carbon Steel ASTM A36/A516 Gr. 70 plate (2)	Carbon Steel ASTM A36/A516 Gr. 70 plate (2)
Plug	Ductile Iron ASTM A536 Gr. 80-55-06 (3)	Ductile Iron ASTM A395 Gr. 60-40-18 (3) for valve sizes 8 in. to 12 in. Larger sizes ASTM A216 WCB (3)	Cast Carbon Steel ASTM A216 WCB (3)
Stem	Ductile Iron ASTM A536 Gr. 80-55-06 (3)	ASTM A564 Type 630 17-4 PH SS for valve sizes 8 in. to 12 in.	Cast Carbon Steel ASTM A216 WCB (3)
Slips	Ductile Iron ASTM A536 Gr. 65-45-12 Manganese Phosphate Coated	Ductile Iron ASTM A395 Gr. 60-40-18 Manganese Phosphate Coated	Ductile Iron ASTM A395 Gr. 60-40-18 Manganese Phosphate Coated
Gland	ASTM A216 WCC	ASTM A747 17-4 PH SS	ASTM A36 Plate
Gland Packing	Graphite	Graphite	Graphite
Body Fire Seals	Graphite	Graphite	Graphite
O-Rings & Slip Seals	See trim selection	See trim selection	See trim selection
Fasteners	ASTM A193 Gr. B7/2H	ASTM A193 B7	ASTM A193 Gr. B7/2H

Note: (1) Chrome Plated Bore. (2) Or cast equivalent. (3) Electroless Nickel Coated. Materials subject to change without notice.

Proper seal selection includes a myriad of considerations such as media, pressure class, valve type, differential pressure, low temperature, high temperature, seal type, etc. To that end we present our selection of slip seal materials and a brief list of considerations:

General Twin Seal Trim Selection

Fluoro Elastomers Slip Seal Materials			For more info ask for GVMPS
V	Viton	Our Standard Material Since 1958	3037
V9	Viton 90 Durometer	Standard HI P	3042
VFR	Fiber Reinforced Viton	Optional HI P	3033
VGF	Viton GF	Viton with Enhanced Chem. Resistance	3043
VGLT	Viton GFLT	Low Temp Viton GF	3044
VGLT9	Viton 90 Durometer GFLT	HI P Low Temp Viton GF	3059
Nitrile Elastomers Slip Seal Materials			
H	Nitrile	Our Original Standard Material	3048
H9	Nitrile 90 Durometer	HI P Nitrile	3049
LH	Low Temp Nitrile	Low Temp Nitrile	3050
H5	Modified Nitrile	Reformulate Gasoline Seal Material	3053
Specialty Slip Seal Materials			
C	Epichlorohydrin	Good Low Temp Material	3054
E	Ethylenepropylene	Ammonia but not Hydrocarbon	3057
UHS	Fluorosilicone	Good High and Low Temp	3032
RZL	Rezilon	HI P RFG	3034
AFL	AFLAS	Amines, exp. decomp., steam, 600°F	3045
GVX	VTR 6279	Ultra Chemical Resistant	3047
T	Teflon	Good for just about anything	3041

All specifications and materials are subject to change without notice.

GENERAL TWIN SEAL, GVM, REZILON, VFR, GVX, BEST VALVE BEST VALUE, WHEN LEAKS MATTER, SEAT AND RESEAT, HGO, GOSP, SAFETY BLEED, SAFETY BLOCK AND SAFETY CHECK, VITON and TEFLON are registered trademarks of their respective owners.