

TECHNICAL INFORMATION

WALSEAL PLUG VALVES SEALANT

FUNCTION AND PROPERTIES OF WALSEAL SEALANTS

To assure thoroughly satisfactory service, WALWORTH Walseal Sealants should always be used with WALWORTH Plug Valves.

Function: The sealant minimizes friction during operation of the valve and protects seating surfaces from corrosion. Because the ports of valves are completely encircled with sealant grooves, leakage is prevented by the Walseal sealant.

Properties: Walseal sealants have the necessary properties to serve a variety of purposes.

1. Have lubricating value to allow the valve to turn easily.
2. Have sufficient body to resist dilution by line fluids and still assure tight sealing.
3. Are chemically inert in the fluids for which they are specified and have the ability to adhere to the metal of the finished seating surfaces to protect from corrosion.
4. Remains in a plastic state over a wide range of temperature conditions to act as a hydraulic medium, and provide for lubrication and corrosion protection.
5. Contain a minimum of Ingredients that might solidify from temperature or chemical reactions and clog the groove system.

2. **Color.-** Where discoloration of the line contents must be guarded against, select a white sealant. If available. In special cases consult a WALWORTH representative.
3. **Contamination -** Sealant for use with foodstuffs or pharmaceuticals must be non-toxic, taste and color-free and chemically inert.
4. **Temperature -** As a general rule, choose the sealant with the lowest maximum temperature rating. Such a sealant will usually have greater lubricating value at normal temperatures than one with a higher limit. This is important as it affects the ease of operation of the valve.
5. **Compromise -** If a sealant is required for a mixed service condition, a good practical rule is to select the sealant recommended to the predominating part of the pipe-line contents.
6. **Nitrating Acids -** It is dangerous to use certain sealants on nitrating acids. Please contact your WALWORTH representative for this application.

Proper sealant maintenance:

The amount of maintenance required depends upon the frequency of operation of the valve.

Regular maintenance: Preserves the seating surfaces and prevents leakage. Definite periodic service gives the best results. Any valve not regularly operated should be serviced at least every six months.

SELECTION AND MAINTENANCE OF WALSEAL SEALANT

How to select a sealant:

1. **Line Contents -** Select a sealant recommended for the particular service requirements.

Ordering Information:

1. State whether jumbo, stick or bulk sealant is desired.
2. For bulk sealant give Walseal number and container size.

STICK	STICK SIZE	AVAILABLE IN WALSEAL NO.
B (24/box)	318' X 1 1/2' (Box approx. 1.2 lb.)	10, 20, 40 and 60
C (24/box)	7/16' X 2 1/8' (Box approx. 1.2 lb.)	10, 20, 40 and 60
D (24/box)	1/2' X 2 1/4' (Box approx. 1.2 lb.)	10, 20, 40 and 60
G (24/box)	518' X 3 1/2' (Box approx. 1.2 lb.)	10, 20, 40 and 60
CARTRIDGE - (Box of 4 - 1 lb. each)		All TYPES
BULK		
J-Jumbo Jr. (6)	1 3/8' X 8 1/2' (Box approx. 3.2 lb.)	10, 20, 40 and 60
K-Jumbo (12)	1 1/2' X 10 1/2' (Box approx. 9.2 lb.)	10, 20,40 and 60
Gun Pack (Box-6 GP)		All TYPES
10 pound (5 quart can)		
40 pound (5 gallon can)		
400 pound (55 gallon drum)		

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WALSEAL PLUG VALVES SEALANT

WALSEAL #10

Temperature range from -20F to 500F Stick / -40F to 500F Bulk
Dark Gray

Service: General purpose sealant intended for use in natural gas and liquid petroleum services including crude distillates, combustible fuels such as gasoline, jet fuel, and heating oils. Used as assembly sealant in all WALWORTH plug valves unless otherwise specified.

Not intended for use in: Solvents (aromatic), strong acids and alkalies, and steam.

WALSEAL #20

Temperature range from OF to 650F Bulk / 30F to 690F Stick
Color red

Service: High temperature general purpose sealant for use in acids, alkalies, alcohols, amines, asphalt, aqueous solutions, fats, glycerine glycols, soap, steam, and water service having continuous exposure to temperatures above 400F.

Not intended for use in: Aromatic solvent light liquid hydrocarbons, nitrating acids.

WALSEAL #40

Temperature range from 1 OF to 350F Stick / -10F to 350F Bulk
Color light brown

Service: Specifically formulated for resistance to all octane gasolines, aviation and jet fuels, kerosene, fuel blending ingredients, and water. Approved for government use per MIL-G-6032.

Not intended for use in: Strong acids and alkalies.

WALSEAL #50

Temperature range from -50F to 300F
Color beige

Service: Low temperature general purpose sealant for use in services similar to Walseal #10. Recommended for continuous exposure to temperatures below 0°F.

Not intended for use in: Solvents (aromatic and chlorinated), strong acids and alkalies.

WALSEAL #60

Temperature range from 1 OF to 350F Stick / OF to 300F Bulk
Service: Suitable for water, acids, alkalies, alcohols, and amines. May be used in food or pharmaceutical applications if approved by user. Certified by the National Sanitary Foundation.

Not intended for use in: Hydrocarbon solvents.

Continued use of any sealant at either the low or high temperature limit is not recommended.

For more information concerning these sealants or recommendations for a particular service contact your WALWORTH representative.

WALWORTH VALVE FLUSH

For hard-to-operate valves

-20°F to 400°F

(-28°C) (204°C) **BLACK**

VALVE FLUSH is not a sealant; however, it is compatible with any lubricant or sealant. It contains molybdenum disulfide for added lubricity. VALVE FLUSH may be applied with conventional lubricating equipment.

VALVE FLUSH will work through any fitting that is not completely plugged. In other words, if VALVE FLUSH cannot be injected past the fitting, it will not free the valve. If the fitting is plugged, then it is recommended that fitting be removed and replaced with the appropriate WALWORTH fitting.

WALWORTH "VALVE FLUSH" JUMBO, JR. BAG 6/BX

WALWORTH "VALVE FLUSH" JUMBO, BAG 6/BX

WALWORTH "VALVE FLUSH" 1 CARTRIDGE 12/CTN

WALWORTH "VALVE FLUSH" 10LB. (5QT.) CAN.

WALWORTH "VALVE FLUSH" 20 LB. (3GAL.) PAIL

WALWORTH "VALVE FLUSH" 40 LB. (6GAL.) PAIL