

***Applies To: Model 210, 2" through 6", Hydraulic Set-Stop Valves and
200 Series Valve Packages*****1. Valve Temperature and Pressure Limits**

The 150 ANSI flanged valve temperature range is -20°F to 100°F @ 285 PSI maximum working pressure for valve material ASTM A 216 WCB per ASME B16.5. The maximum working pressure is reduced at temperatures above 100°F per ASME B16.5. The temperature range of the valve elastomers are in the table below.

Valve Elastomer	Temperature Range
LS (Low Swell) Buna	-20°F to 200°F (-28°C to 93°C)
Buna-N	-20°F to 200°F (-28°C to 93°C)
Viton	-20°F to 350°F (-28°C to 177°C)

2. Low Temperature Applications

For colder climate applications use Elastomer Group 1 and replace Buna-LS (Low Swell) diaphragm with Buna-N diaphragm for improved consistent response of the valve. The elastomers must be compatible with the liquid product in all cases.

3. LPG Applications

Use Elastomer Group 2.

4. 200 Series Valve Pilot Elastomers

The control pilots used with 200 series valves will have the base elastomer of the valve; i.e., Low Swell Buna valve will have Buna-N pilot elastomers or Viton-A valve will have Viton-A pilot elastomers.

Elastomer Selection by Product

PRODUCT:	Elastomer GROUP 1	Elastomer GROUP 2	Elastomer GROUP 3	Elastomer GROUP 4
Valve Diaphragm	Buna-LS (Low Swell)	Buna-LS (Low Swell)	Buna-LS (Low Swell)	Viton-A
Retainer O-Ring (Seat)	Buna-LS	Buna-LS	Buna-LS	Viton-A
Static O-Rings	Buna-N	Buna-N	Buna-N	Viton-A
Solenoids	Viton-F	Buna-N	Chemraz	Viton-F

PRODUCT:	GROUP 1	GROUP 2	GROUP 3	GROUP 4
Diesel Fuels				
– Low Sulfur Diesel ¹				■
– Ultra Low Sulfur Diesel ¹				■
– Biodiesel-Neat and Blends				■
– Sulfur Based Diesel	■		■	■
ETBE-Neat	■		■	■
Ethanol-Neat and Blends	■		■	
Fuel Oils	■		■	■
Jet Fuels	■		■	■
Kerosene	■		■	■
Leaded Gasoline	■		■	■
LPG		■		
Lube Oils	■		■	■
Methanol-Neat	■		■	
MTBE-Neat			■	
Raffinate	■		■	■
Unleaded Gasoline Blends:				
– MTBE-All Blends	■		■	■
– MTBE-All Blends	■		■	■
– Methanol-All Blends	■		■	■
Unleaded Gasoline Straight	■		■	■

¹ LSD and ULSD elastomers may incur increased wear if lubricity additive is not present before flowing through the valve.

Revisions included in AB03003 Issue/Rev. 1.1 (7/09):
Ethanol all blends removed from Elastomer Selection by Product table - Page 2.

The specifications contained herein are subject to change without notice and any user of said specifications should verify from the manufacturer that the specifications are currently in effect. Otherwise, the manufacturer assumes no responsibility for the use of specifications which may have been changed and are no longer in effect.

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