

SEGMENTED CONTROL VALVES
MODEL 920 KEYED SHAFT
AND 940 DIRECT MOUNT

FNW®

SUPERIOR PERFORMANCE, LONGER LIFE

The FNW Segmented Ball Valve is specifically engineered to provide tight control and long service life. Rugged construction allows for service in a wide range of applications, such as steam, paper stock, slurry, hot oil and hot gases, in a variety of industries, including chemical, fiber, pulp and paper, and pharmaceutical. Proper selection of construction materials will ensure resistance to corrosion and erosion.

The inherent V-shape of the segment provides for much tighter control than standard ball valves. The segmented style of ball has the advantage of a free flow path for the fluid to keep Cv's as high as possible. It also means there is less surface area in contact between the ball and the seat, so torques remain low.

The direct mount option of the Model 940 means bracket sets are not required, thereby reducing overall cost and size of the valve assembly.

MODEL 920: KEYED SHAFT; MODEL 940: DIRECT MOUNT

KEY FEATURES

MODEL 920 - KEYED SHAFT: 1" through 12", Class 150 and 300

MODEL 940 - DIRECT MOUNT: 1" through 8", Class 150 and 300

Additional sizes and pressure classes are available on request.

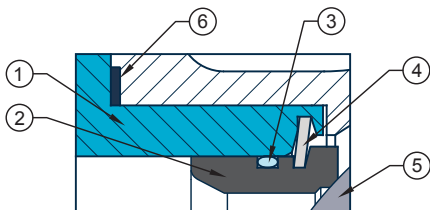
- ISA face to face
- Multiple seat options
- Bolted retainer for ease of repair
- Standard hard chrome plated ball
- Flanged or wafer options
- Live loaded adjustable packing
- Splined shaft
- Low torque
- Low profile mounting option

SEAT OPTIONS

Seat Type B

Standard Metal Seat
Temp Range -20°F to 392°F

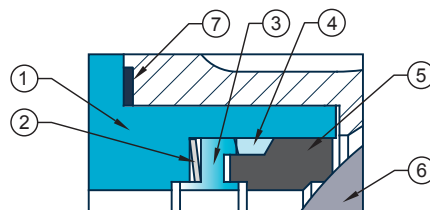
No	Name	Standard Material
1	Retainer	WCB/CF8M
2	Seat	316SS + Stellite
3	O-Ring	Aflas®
4	Seat Spring	17-7PH/X750
5	Ball	CF8M w/Chrome
6	Retainer Gasket	316SS+Graphite



Seat Type C

High Temperature Metal Seat
Temp Range -20°F to 797°F

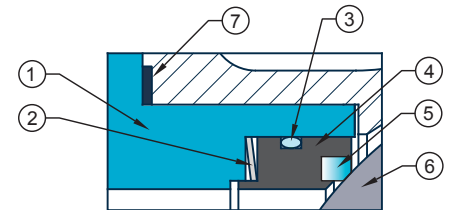
No	Name	Standard Material
1	Retainer	WCB/CF8M
2	Seat Spring	17-7PH/X750
3	Back-Up Ring	316SS
4	Graphite Ring	Graphite
5	Metal Seat	316SS w/Stellite 6
6	Ball	CF8M w/Chrome
7	Retainer Gasket	316SS+Graphite



Seat Type D

Soft Seat
Temp Range -20°F to 302°F

No	Name	Standard Material
1	Retainer	WCB/CF8M
2	Seat Spring	17-7PH/X750
3	O-Ring	Aflas®
4	Back-Up Ring	316SS
5	Seat	Devlon®
6	Ball	CF8M w/Chrome
7	Retainer Gasket	316SS+Graphite



Type B and C metal seated valves comply with ANSI/FCI 70.2 Class IV Shutoff.

Class V is available.

Type D soft seats comply with ANSI/FCI 70.2 Class VI Shutoff.

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OPTIONS

Materials of Construction

A wide variety of material options for valve body and segment. Contact your FNW representative for assistance in selecting the correct material for long valve life.

Cortex Hardening

Special CORTEX treatment is available to increase hardness of the body and/or ball. CORTEX resists abrasion and erosion and can reduce the amount of product buildup on the valve parts.

Low Flow Trim Option

For precise control at very low flow conditions, 1" and smaller valves are available with Low Flow trim. Specific shape varies based on valve size and specific flow characteristic requirements.



Low Flow Trim Option

AUTOMATION

FNW has the capability to provide fully automated segmented ball valve assemblies.

The Model 940 Direct Mount Valve is ideal for low profile and economical automation.

Pneumatic actuators, electric actuators, positioners, limit switches, gear operators—we can do it all. Let us know what you need, and we can provide it!

FEATURED: ASD Spring-Diaphragm Actuator

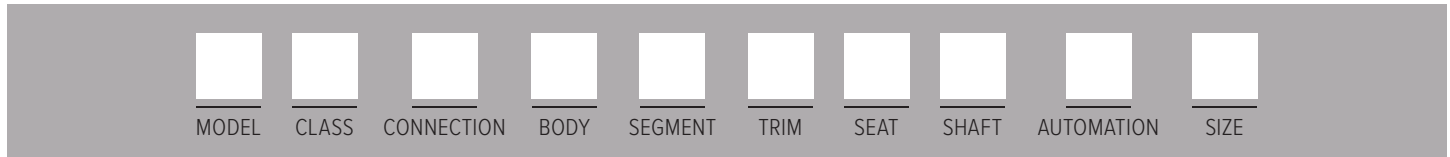
The ASD Spring-Diaphragm Actuator is specifically designed for quarter turn valve automation and is ideally suited for precise control. The actuator can either direct mount to the model 940 or to the bracket set of the 920 valve. For enhanced control and reduced hysteresis, we can provide a squeeze coupler that clamps to the square of the valve shaft for the tightest connection.

SEGMENTED CONTROL VALVES



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ORDER CODES



MODEL	PRESSURE CLASS	CONNECTION TYPE
920 = Segmented V-Ball Valve	A = Class 150, ISA F/F	F = Flanged ★
940 = Direct Mount Segmented V-Ball	B = Class 300, ISA F/F	W = Wafer - 150#/300# Dual Rated

BODY MATERIAL		SEGMENT MATERIAL	TRIM
C = WCB	7 = CG8M (317SS)	S = CF8M	S = Standard Cv Full Trim ★
CC = WCB with CORTEX	7C = CG8M with CORTEX	H = CF8M + Chrome ★	A = Abrasion Resistant for Slurry
S = CF8M (316SS) ★	L = LCB Low Temp Carbon Steel	7 = CG8M	6 = Reduced Cv Trim (60% of full)
SC = CF8M with CORTEX	6 = WC6 Alloy Steel	W = CF8M + Tungsten Carbide	4 = Reduced Cv Trim (40% of full)
4 = CF8 (304SS)	D = Duplex Stainless	T = Titanium	
4C = CF8 with CORTEX	T = Titanium Gr. 2	N = CF8M + Nickel Alloy	

SEAT MATERIAL	SHAFT MATERIAL	PACKING MATERIAL	AUTOMATION	VALVE SIZE	
D = Devlon Soft Seat	P = 17-4PH ★	P = TFM-1600 ★	B = Bare Shaft ★	G = 1"	10 = 10"
W = 316SS + Tungsten Carbide	6 = 316SS	G = Graphite	G = Gear Operator	J = 1-1/2"	12 = 12"
B = 316SS + Stellite ★	D = Duplex 2205			K = 2"	14 = 14"
P = PEEK Soft Seat	T = Titanium Gr. 4		Consult factory for automation options.	M = 3"	16 = 16"
N = 316SS + Nickel Alloy	X = XM-19			P = 4"	18 = 18"
C = 316SS + Stellite High Temp				U = 6"	20 = 20"
M = TFM Soft Seat				X = 8"	
T = Titanium					

★ Indicates standard stock materials of construction