

# HEAVY DUTY VALVES & CONTROLS, MADE TO LAST.®



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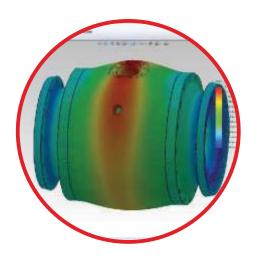
**FCX3 Inc.**, also known as **FCX3 USA Valves & Controls**, is a Valve, Controls & Technologies Manufacturer with headquarters in Houston, TX [U.S], with domestic and International branches that prides in providing the highest quality products, engineering and services.

Our mission and objective is to provide the highest quality engineered products at capital projects and/or MRO (Maintenance | Repair | Operations).

What makes FCX3 solutions unique, is our extensive knowledge in manufacturing the highest quality valves, automation, control, technological products, supply chain network, and our capabilities to supply tailor-made solutions to the needs of our customers. We support expansions of facilities, upgrades and/or maintenance programs (immediate | predictive | preventive stages) in order to provide safety, cost savings, supply chain solutions and process optimization to our customers.

We are a specialty valve and controls company that provides the **highest customer service**, with simplified distribution by combining tailor made solutions and we thrive on serving our customers and their projects.

We cover process applications in the oil & gas, mining, power generation, marine, food, aerospace & specialty industrial processes.



### Robust Valve Engineering solutions

Implemented with:

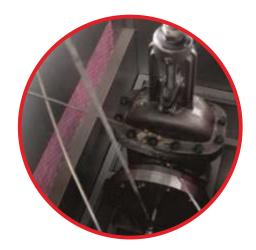
- · Advanced technologies
- · Highly engineered software
- · Testing equipements

Our Research & Development team research, test our newest materials, designs and valve innovations.



Technical team is dedicate to customize solutions to meet your specific applications:

- Top-entry ball valves: with in-line maintenance.
- Fully-welded ball valves: for underground service.
- Metal to metal seated ball valves: for high temperature service.
- Cryogenic ball valves: for low temperature service.
- Gate, Globe, Check, Butterfly Valves: Include wireless sensors to monitor valve position.
- Valve Automation Solutions: Customized solution for corrosive, abrasive and severe applications.





Our top objetive is to focus in our P3 Core standards: People, Products & Pricing.



Just in time and tailor made.



Heavy Duty Valves & Controls, made to last.®







At FCX3 Inc, our Quality management team thrives to continually improve our quality in our product. Our strict guidelines and productions plans are implemented from our first steps of design, manufacturing, assembling, testing, delivery, installation and commissioning of all our valves & controls solutions. At FCX3 Inc, as part of our process inspection and testing facilities we provide the following additional services:

- Amoco 54C Inspection
- Bevel & Worm Gear Installation
- Bore Buildups & Reductions in BWE Valves
- Bypass Fabrication
- Casting Upgrades
- Cleaning for Oxygen & Special Services
- Conversion of Bolted Bonnet to Welded Bonnet
- Cryogenic Valve Fabrication
- Cryogenic Valve Testing
- Dye Penetrant Inspection
- Elastomer Inserts in Discs & Seats
- Fabrication Work
- Flange Attachments
- Flange Facing
- Fugitive Emissions Testing
- Hardness Testing
- Hydrogen Service UpgradesHigh Temperature testing
- Live Loading of Packing
- Magnetic Particle Inspection
- NACE MR0175 Upgrades
- Outside Lever & Weight on Check Valves
- Packing & Gasket Changes
- Pressure Testing Per API 598 & API 6D
- Radiographic Inspection
- Ring Type Joint (RTJ) Conversions
- Trim Change- All Alloys & Base Materials
- X-Ray Radiography
- Valve Extension

All records of valve series numbers, testing procedures, inspection, operation information and results, are traceable and kept in our records.



# BALL VALVES

WWW.FCX3.COM



• Size Range:

• Pressure Ratings:

• Design Standard:

• End Connection:

• Main Material:

• Operation:

2"~48"

150~2500

ASME B16.34/API 6D

RF, RTJ, BW

Carbon, Stainless,

Duplex Steel

Lever, Gear,

Pneumatic Actuator



### **Features**

- ✓ Three Pieces Forged Steel Body
- ✓ Trunnion Mounted Ball, Full & Reduced Bore
- ✓ Anti-Static Device
- ✓ Blow-out Proof Stem Design
- ✓ Cavity Pressure Relief Seat
- ✓ Double Block & Bleed
- ✓ Fire Safe Design
- ✓ ISO 5211 Top Mounting Connection
- ✓ Lockable Design
- Mechanical Stop



# **Optional Features**

- SS304 Overlay On Seat Pocket Area
- Double Piston Effect Seats
- Combination Seats:

Upstream Single Piston Effect Downstream Double Piston Effect Seats

- Primary Metal to Metal Seal Secondary O-Ring Seal Seats
- Emergency Sealant Injection (Standard for 6" & Larger)
- Vent Valve (Standard for 6" & Larger)
- Lifting Lugs & Supporting Feet (Standard for 8" & Larger)



• Size Range:

• Pressure Ratings:

• Design Standard:

• End Connection:

• Main Material:

• Operation:

2"~40"

150~2500

ASME B16.34/API 6D

RF, RTJ, BW

Carbon, Stainless,

Lever, Gear,

Pneumatic Actuator



### **Features**

- ✓ Welded Forged Steel Body
- ✓ Trunnion Mounted Ball, Full & Reduced Bore
- ✓ Anti-Static Device
- ✓ Blow-out Proof Stem Design
- ✓ Cavity Pressure Relief Seat
- ✓ Double Block & Bleed
- ✓ Fire Safe Design
- ✓ ISO 5211 Top Mounting Connection
- ✓ Lockable Design
- Mechanical Stop



# **Optional Features**

- SS304 Overlay On Seat Pocket Area
- Double Piston Effect Seats
- Combination Seats:

Upstream Single Piston Effect

Downstream Double Piston Effect Seats

- Primary Metal to Metal Seal Secondary O-Ring Seal Seats
- Emergency Sealant Injection (Standard for 6" & Larger)
- Vent Valve (Standard for 6" & Larger)
- Lifting Lugs & Supporting Feet (Standard for 8" & Larger)
- Underground Extended Stem Design



• Size Range:

• Pressure Ratings:

150~1500

2"~28"

• Design Standard:

ASME B16.34/API 6D

• End Connection:

RF, RTJ, BW

• Main Material:

Carbon, Stainless,

Duplex Steel

• Operation:

Lever, Gear,

Pneumatic Actuator



### **Features**

- ✓ Three Pieces Forged Steel Body
- ✓ Trunnion Mounted Ball, Full & Reduced Bore
- ✓ Anti-Static Device
- ✓ Blow-out Proof Stem Design
- ✓ Cavity Pressure Relief Seat
- ✓ Double Block & Bleed
- ✓ Fire Safe Design
- ✓ ISO 5211 Top Mounting Connection
- ✓ Lockable Design
- ✓ Online Maintenance
- Mechanical Stop
- Emergency Sealant Injection
- ✓ Vent Valve



# **Optional Features**

- Double Piston Effect Seats
- Combination Seats:

Upstream Single Piston Effect Downstream Double Piston Effect Seats

- Primary Metal to Metal Seal Secondary O-Ring Seal Seats
- Lifting Lugs & Supporting Feet (Standard for 8" & Larger)



• Size Range:

Pressure Ratings:

Design Standard:

• End Connection:

• Main Material:

• Operation:

1/2"~24"

150~2500

ASME B16.34/BS5351/API6D

RF, RTJ, BW

Carbon, Stainless,

Duplex Steel

Lever, Gear,

Pneumatic Actuator



### **Features**

- ✓ Forged Steel Body
- ✓ Floating & Trunnion Mounted Ball
- ✓ Metal to Metal Seated Design
- Tungsten Carbide Coated Ball & Seats
- ✓ Anti-Static Device
- ✓ Blow-out Proof Stem Design
- ✓ Abrasive Service With 0-Ring Seals
- ✓ Leakage Rate Class V
- ✓ ISO 5211 Top Mounting Connection
- ✓ Lockable Design



- High Temperature Service with Graphite Seal Design
- Emergency Sealant Injection (Standard for 6" & Larger)
- Vent Valve (Standard for 6" & Larger)
- Lifting Lugs & Supporting Feet (Standard for 8" & Larger)



• Size Range:

1/2"~24"

• Pressure Ratings:

150~600

• Design Standard:

ASME B16.34/BS5351/API6D

• End Connection:

RF, RTJ, BW

• Main Material:

Stainless Steel

Duplex Steel

• Operation:

Lever, Gear,

Pneumatic Actuator



#### **Features**

- ✓ Forged or Cast Steel Body
- ✓ Floating &Trunnion Mounted Ball
- Extended Bonnet Design
- ✓ Anti-Static Device
- ✓ Blow-out Proof Stem Design
- ✓ Cavity Pressure Relief Seat
- ✓ Fire Safe Design
- ✓ ISO 5211 Top Mounting Connection
- ✓ Lockable Design Service to - 196 C



- Cryogenic
- Lip Seal Available
- Emergency Sealant Injection (Standard for 6" & Larger)
- Vent Valve (Standard for 6" & Larger)
- Lifting Lugs & Supporting Feet (Standard for 8" & Larger)



• Size Range:

1/2"~10" (Series FC) 3/4"~6" (Series FR)

Pressure Ratings:

150~300

• Design Standard:

ASME B16.34/BS5351/ API6D/API608

• End Connection:

Main Material:

Carbon, Stainless,

Duplex Steel

• Operation:

Lever, Gear,

Pneumatic Actuator



### **Features**

- ✓ Two Pieces Forged Steel Body (Series FC)
- ✓ One Piece Cast Steel Body (Series FR)
- ✓ Floating Ball, Full & Reduce Bore
- ✓ Anti-Static Device
- ✓ Blow-out Proof Stem Design
- ✓ Fire Safe Design
- ✓ Low Emission Design
- ✓ ISO 5211 Top Mounting Connection
- ✓ Lockable Design
- ✓ Silica Sol Binder Casting

for WCB Size 1/2 to 1-1/2"

for CF8M Size 1/2 to 4"

Extended Stem for Isolation (Optional)





• Size Range:

1/2"~10"

• Pressure Ratings:

150~2500

• Design Standard:

ASME B16.34/BS5351/API6D

• End Connection:

RF, RTJ, BW

• Main Material:

Carbon, Stainless,

Duplex Steel

• Operation:

Lever, Gear,

Pneumatic Actuator



- ✓ Two Pieces Forged Steel Body (Series FC)
- ✓ Floating Ball, Full & Reduce Bore
- ✓ Anti-Static Device
- ✓ Blow-out Proof Stem Design
- ✓ Fire Safe Design
- ✓ Low Emission Design
- ✓ ISO 5211 Top Mounting Connection
- ✓ Lockable Design
- Extended Stem for Isolation (Optional)





• Size Range:

800~1500

Pressure Ratings:

800~1500

1/2"~2"

• Design Standard:

ASME B16.34/BS5351

• End Connection:

BW, SW, NPT

• Main Material:

Carbon, Stainless,

Duplex Steel

Operation:

Lever



- ✓ Two Pieces/Three Pieces Forged Steel Body
- ✓ Floating Ball, Full & Reduce Bore
- ✓ Anti-Static Device
- ✓ Blow-out Proof Stem Design
- ✓ Fire Safe Design
- ✓ Low Emission Design
- ✓ Lockable Design
- Extended Stem for Isolation (Optional)





# GATE, GLOBE & CHECK VALVES

WWW.FCX3.COM



• Size Range:

• Pressure Ratings:

• Design Standard:

• End Connection:

• Main Material:

• Operation:

2"~48"

150~2500

ASME B16.34/API 600

RF, RTJ, BW

Carbon, Alloy, Stainless,

Duplex Steel

Handwheel, Gear,

Motor Actuator



### **Features**

- ✓ Rising Stem
- ✓ Bolted Bonnet
- Flexible Wedge Design
- Swing Bolted Packing



- Extended Bonnet Design Available
- By-pass System
- Locking Device
- Chain Wheel Operation
- Bellow Seal Design Available
- Low Emission Design
- Double Packing Design
- Extended Stem
- ISO 5210 Top Mounting Pad
- Pressure Seal Available For Class 900 & Above



• Size Range:

• Pressure Ratings:

• Design Standard:

• End Connection:

• Main Material:

• Operation:

2"~18"

150~2500

ASME B16.34/BS1873

RF, RTJ, BW

Carbon, Alloy, Stainless,

Duplex Steel

Handwheel, Gear,

Motor Actuator



### **Features**

- ✓ Rising Stem
- ✓ Bolted Bonnet
- ✓ Conic Disc
- Swing Bolted Packing
- ✓ Impact Handwheel Standard For 6" & Above



- Extended Bonnet Design Available
- Locking Device
- Chain Wheel Operation
- Bellow Seal Design Available
- Low Emission Design
- Double Packing Design
- Extended Stem
- ISO 5210 Top Mounting Pad
- Pressure Seal Available For Class 900 & Above
- Stop Check Design Screwed Down Non Return



• Size Range:

• Pressure Ratings:

• Design Standard:

• End Connection:

• Main Material:

• Operation:

2"~30"

150~2500

ASME B16.34/BS1868

RF, RTJ, BW

Carbon, Alloy, Stainless,

Duplex Steel

N/A



### **Features**

- ✓ Bloted Cover
- Swing Type Disc
- ✓ Full Port
- ✓ Internal Hinge Pin Design or External Hinge Pin Design



- Damping Device Available
- Full Opening Pigable
- Pressure Seal Available For Class 900 & Above



# BUTTERFLY VALVES



- Size Range:
- Pressure Ratings:
- Face to Face:
- Flange:
- Body Material:
- Operation:

DN40 ~ DN1200 (1-1/2" ~ 48")
PN10 ~ PN16 (150PSI ~ 200PSI)
API609, BS EN 558, DIN3202, IS05752
DIN, BS, UNI, ISO, ANSI, AS, JIS

Ductil Iron, Carbon Steel,

Lever, Gear, Motor, Pneumatic Actuator



- ✓ Wafer, Lugged or U-Flanged Type
- ✓ Pin through One Piece Shaft
- ✓ Concentric Disc
- ✓ Phenolic-backed Rubber Seat
- ✓ Bubble Tight Shut Off
- ✓ Low Torque, Long Life Cycle
- ✓ IS05211 Top Flange





- Size Range:
- Pressure Ratings:
- Face to Face:
- Flange:
- Body Material:
- Operation:

DN50 ~ DN600 (2" ~ 24")

PN10 ~ PN16 (150PSI ~ 200PSI)

API609, BS EN 558, DIN3202, ISO 5752

DIN, BS, UNI, ISO, ANSI, AS, JIS

Ductil Iron

Lever, Gear, Motor, Pneumatic Actuator



- ✓ Wafer & Lugged Type
- ✓ Two Shafts Without Pins
- ✓ Concentric Disc
- ✓ Phenolic-backed Rubber or PTFE Seat
- ✓ Bubble Tight Shut Off
- ✓ Low Torque, Long Life Cycle
- ✓ ISO5211 Top Flange





- Size Range:
- Pressure Ratings:
- Face to Face:
- Flange:
- Body Material:
- Operation:

DN50 ~ DN400 (2" ~ 16")

PN10 ~ PN16 (150PSI ~ 200PSI)

API609, BS EN 558, DIN3202, ISO 5752

DIN, BS, UNI, ISO, ANSI, AS, JIS

Ductil Iron

Lever, Gear, Motor, Pneumatic Actuator



- ✓ Wafer & Lugged Type
- ✓ One Shaft Without Pins
- ✓ Concentric Disc
- ✓ Soft Seat the Tongue-and-Groove Type or Vulcanized to Body
- ✓ Bubble Tight Shut Off
- ✓ Low Torque, Long Life Cycle
- ✓ ISO5211 Top Flange





- Size Range:
- Pressure Ratings:
- Face to Face:
- Flange:
- Body Material:
- Operation:

DN40 ~ DN400 (1-1/2" ~ 16")

PN10 ~ (150PSI)

API609, BS EN 558, DIN3202, ISO 5752

DIN, BS, UNI, ISO, ANSI, AS, JIS

**Ductil Iron** 

Lever, Gear, Motor, Pneumatic Actuator



- ✓ Wafer & Lugged Type
- ✓ One Shaft Without Pins
- ✓ Concentric SS Disc or SS with Teflon Coated Disc
- ✓ PTFE Over EPDM Seat For Corrosive Fluid
- ✓ Bubble Tight Shut Off
- ✓ Split Body for Easy Maintenance and Replacement
- ✓ ISO5211 Top Flange







- Size Range:
- Pressure Ratings:
- Face to Face:
- Flange:
- Body Material:
- Operation:

DN40 ~ DN400 (1-1/2" ~ 16")

PN10~(150PSI)

API609, BS EN 558, DIN3202, ISO 5752

DIN, BS, UNI, ISO, ANSI, AS, JIS

Ductil Iron, Stainless Steel

Lever, Gear, Motor, Pneumatic Actuator



- ✓ Water & Lugged Type
- ✓ Concentric SS Disc or SS with Teflon Coated Disc
- ✓ Heavy PTFE Seat For High Corrosive Fluid
- ✓ Stainless Steel Lever (Optional)
- ✓ Bubble Tight Shut Off
- ✓ ISO5211 Top Flange





• Size Range:

• Pressure Ratings:

• Face to Face:

• Flange:

Body Material:

• Operation:

DN50 ~ DN1200 (2" ~ 48")

PN10 ~ PN16 (150PSI ~ 200PSI)

DIN3202, ISO 5752

DIN, BS, UNI, ISO, ANSI

Ductil Iron

Lever, Gear, Motor, Pneumatic Actuator



- ✓ Double Flanged Type
- ✓ Pin through One Piece or Two Pieces Shaft
- ✓ Concentric Disc
- ✓ Vulcanized Rubber Seat
- ✓ Bubble Tight Shut Off Flanged Type







- Size Range:
- Pressure Ratings:
- Face to Face:
- Flange:
- Body Material:
- Operation:

DN100 ~ DN1600 (4" ~ 64")

Pn10 ~ Pn16 (150PSI ~ 200PSI)

DIN3202, ISO 5752

DIN, BS, UNI, ISO, ANSI

Ductil Iron

Lever, Gear, Motor, Pneumatic Actuator



- ✓ Two Pieces Shaft
- ✓ Double and Triple Offset Disc
- ✓ Rubber Seat Seal to Welded Deposited Body Ring
- ✓ Bubble Tight Shut Off





• Size Range:

Pressure Ratings:

• Face to Face:

• Flange:

Body Material:

• Operation:

DN50 ~ DN300 (2" ~ 12")

Pn16 (200PSI)

MSS SP-67

ANSI/AWWA C606

Ductil Iron

Lever, Gear



- ✓ Grooved End Type
- ✓ Two Pieces Shaft
- ✓ Concentric Disc with Rubber Coated
- ✓ Bubble Tight Shut Off
- ✓ ISO5211 Top Flange





# CHECK VALVES

WWW.FCX3.COM



• Size Range:

• Pressure Ratings:

• Face to Face:

• Flange:

• Body Material:

• Operation:

DN50 ~ DN800 (2" ~ 32")

PN10 ~ PN16 (150PSI ~ 200PSI)

DIN3202, ISO 5752

DIN, BS, UNI, ISO, ANSI

Ductil Iron, Cast Iron

N/A



- ✓ Dual Plate Wafer Type
- Rubber Seat Vulcanized to Body
- ✓ Dual Corrosion Resistant Springs
- ✓ Bubble Tight Shut Off





• Size Range:

• Pressure Ratings:

• Face to Face:

• Flange:

Body Material:

• Operation:

DN32 ~ DN600 (1-1/4" ~ 24")

Pn10 ~ PN40

Manufacturer Standard

DIN, BS, UNI, ISO, ANSI

Carbon, Stainless Steel

N/A



- ✓ Single Plate type
- ✓ Non-Spring Loaded (Series 810)
- ✓ Spring Loaded (Series 820)
- ✓ Rubber O-ring or PTFE O-ring
- ✓ With Lifting Eye Bolt



# RESILIENT GATE VALVES (RGT)

www.fcx3.com



# Specifications End or Socket End (For PVC Pipe)

- Size Range:
- Pressure Ratings:
- Face to Face:
- Flange:
- Body Material:
- Operation:

DN40 ~ DN800 (1-1/2" ~ 32")

Pn10 ~ Pn16 (150PSI ~ 200PSI)

DIN 3352/3202 F4 & F5, Bs5163, AWWA C509

DIN, BS, UNI, ISO, ANSI, AWWA, AS

Ductil Iron

Handwheel, Cap, Gear, Motor Actuator



- ✓ Flanged
- ✓ Non-Rising Stem
- ✓ Rubber Coated Wedge
- ✓ Full and Straight Bore
- ✓ Epoxy Coated Internally and Externally
- ✓ SS Bolts with Plastic Sealed
- ✓ Class PN25 Heavy Body (Optional)
- ✓ Extended Stem for Underground Use (Optional)
- ✓ WRAS Standard (Optional)



Pig Laucher / Receiver Ball Valve



Twin Ball Valves/ Double block & bleed

Plug Valve









API 602 Gate Valves

API 603 Gate Valves

Pressure Bellow Seal Gate Valves

API 594 Water Check Valve









Series 410 Butterfly Valve

High Performance Butterfly Valves



Metal Seat Cast Iron Gate Valves



<u>Y-S</u>tainer





Push Through Knife Gate Valve





Control Valve Modulation Solutions









Electric Actuator and Valves

Pneumatic Actuators and Valves

Direct Gas Actuators and Valves

Gas Over Oil Actuators and Valves









Electrohidraulic Actuators and Valves

Partial Stroke

Hydraulic Power unit

Push Button Enclosures













★ Head Quarters Factory

#### DISTRIBUTOR/STOCKIST/AGENT

- United States
- Canada
- Colombia
- Brazil
- Peru
- Australia
- Indonesia
- Malasya
- Singapore
- India
- Pakistan

- UAE
- Oman
- Germany
- France
- Italy
- Spain
- UK
- Netherlands

#### OTHER MARKETS

- Austria
- Bahrain
- Belgium
- Czech Republic
- Denmark
- Egypt
- Greece
- Hong Kong
- Kazahstan
- Korea
- Kuwait
- Mexico
- New Zeland

- Nigeria
- Philippines
- Poland
- Portugal
- Puerto Rico
- Oatar
- South Africa
- Sweden
- Thailand
- Turkey
- Vietnam

- PRESSURE CLASS - TYPE-SERIES - BODY MATERIAL - TRIM MATERIAL - STEM MATERIAL

SEAT MATERIAL - SEAL MATERIAL - END CONNECTION 1 - END CONNECTION 2 - OP

PERATION	) —	OTHER

SIZE		CODE 1	CODE 2
INCHES	MM		
1/4"	8	0	25
3/8"	10	0	375
1/2"	15	0	5
3/4"	20	0	75
1"	25	0.1	0
1-1/4"	32	0.1	25
1-1/2"	40	0.1	5
2"	50	0.2	0
2-1/2"	65	0.2	5
3"	80	0.3	0
4"	100	0.4	0
6"	150	0.6	0
8"	200	0.8	0
10"	250	10	0
12"	300	12	0
14"	350	14	0
16"	400	16	0
18"	450	18	0
20"	500	20	0
22"	550	22	0
24"	600	24	0
26"	650	26	0
28"	700	28	0
30"	750	30	0
32"	800	32	0
40"	900	40	0
42"	1050	42	0
48"	1200	48	0
60"	1500	60	0
70"	1750	70	0
72"	1800	72	0
90"	2250	90	0
96"	2400	96	0

PRESSURE CLASS	CODE
ANSI 150	150
ANSI 300	300
ANSI 600	600
ANSI 900	900
ANSI 1500	1500
ANSI 2200	220
800	800
1000	1K
1500	1.5K
2000	2K
3000	3K
4000	4K
5000	5K
10000	10K
20000	20K
30000	30K

PRESSURE CLASS TYPE-SERIES BODY MATERIAL SEAL MATERIAL - END CONNECTION 1 - END CONNECTION 2 -SEAT MATERIAL OPERATION OTHER

TYPE	SERIES
WOG BALL	WOG
	(800-1500)
1 PIECE CAST FLOATING BALL VALVE	1PC
2 PIECE CAST FLOATING BALL VALVE	2PC
1 PIECE FORGED FLOATING BALL VALVE	1PF
2 PIECE FORGED FLOATING BALL VALVE	2PF
3 PIECE FORGED FLOATING BALL VALVE	3PF
2 PIECE TRUNNION BALL VALVE	2PT
3 PIECE TRUNNION BALL VALVE	3PT
FULLY WELDED BALL VALVE	FWB
TOP ENTRY FORGED TRUNNION	TET
METAL SEATED FLOATING BALL VALVE	MSF
METAL SEATED TRUNNION BALL VALVE	MST
SWING CHECK VALVES	SCH
WEDGE GATE VALVES	WGT
SLAB GATE VALVES	SGT
THROU CONDUIT GATE VALVES	TCG
GLOBE VALVES	GLB
ZERO LEAKAGE KNIFE GATE	ZLK
PUSH THROUGH KNIFE GATE	TKG
DOUBLE OFFSET BUTTERFLY VALVE	LD0
TRIPLE OFFSET BUTTERFLY VALVE	LT0
NEEDLE VALVE	NEE
PLUG DOUBLE BLOCK AND BLEED	DBB
PLUG SLEEVE	PLS
CRYOGENIC TRUNNION BALL VALVES	СТВ
CRYOGENIC FLOATING BALL VALVES	CFB
DOUBLE EXPANDING GATE VALVE	DGT
BUTTERFLY VALVE SERIES L1	BL1
BUTTERFLY VALVE SERIES L2	BL2
BUTTERFLY VALVE SERIES L3	BL3
BUTTERFLY VALVE SERIES L4	BL4
BUTTERFLY VALVE SERIES L5	BL5
BUTTERFLY VALVE SERIES L7	BL7

BODY MATERIAL	CODE
BRASS	1
CASTIRON	CI
ASTM A105	105
LF2	4
STAINLESS STEEL (CF8M)/F316	5
ALLOY 20 (CN-7M)	A2
MONEL	8
HASTELLOY C (CW12MW)	HC
ALLOY 31	31
INCONEL	l
NI-RESIST	NR
17.4 PH SS (CB7CU1)	CB
2205 (CD3M)	22
2507(CE3MN)	25
AL6XN (CN3MN) (254SMO EQUIV)	6X
TITANIUM GRADE 2	T5
TITANIUM GRADE 8	Т8
OTHER	XX
STELLITE	STE
BLANK	0
CARBON STEEL	CS
ASTM A216 WCB	216
ASTM A216 WCB+SS316	216+316



PRESSURE CLASS — TYPE-SERIES — BODY MATERIAL — TRIM MATERIAL STEM MATERIAL SEAL MATERIAL — END CONNECTION 1 — END CONNECTION 2 — SEAT MATERIAL OPERATION OTHER

TRIM MATERIAL	CODE
BRASS	1
CAST IRON	CI
CARBON STEEL (ASTM A 105)	CS
LF2	4
STAINLESS STEEL (CF8M)/F316	5
ALLOY 20 (CN-7M)	A2
MONEL	8
HASTELLOY C (CW12MW)	HC
ALLOY 31	31
INCONEL	I
NI-RESIST	NR
17.4 PH SS (CB7CU1)	174
2205 (CD3M)	22
2507(CE3MN)	25
AL6XN(CN3MN)(254SM0 EQUIV)	6X
TITANIUM GRADE 2	T5
TITANIUM GRADE 8	Т8
OTHER	XX
STELLITE	STE
BLANK	0
LF2+0.001 ENP	L1E
LF2+0.003 ENP	L3E
ASTM A216 WCB	216
ASTM A216 WCB+SS316	216+316
ASE	A 105+STAINLESS STEEL+ENP
	JILLE LIVI

STEM MATERIAL	CODE
BRASS	1
CAST IRON	CI
CARBON STEEL (ASTM A 105)	CS
LF2	4
STAINLESS STEEL (CF8M)/F316	5
ALLOY 20 (CN-7M)	A2
MONEL	8
HASTELLOY C (CW12MW)	HC
ALLOY 31	31
INCONEL	1
NI-RESIST	NR
17.4 PH SS (CB7CU1)	CB
2205(CD3M)	22
2507(CE3MN)	25
AL6XN(CN3MN)(254SMO EQUIV)	6X
TITANIUM GRADE 2	T5
TITANIUM GRADE 8	Т8
OTHER(SPECIFY)	XX
BLANK	0
ASTM A182 FS1+STL	18F51
410	410



SEAT MATERIAL	CODE
BRASS	1
CASTIRON	CI
CARBON STEEL (ASTM A 105)	CS
LF2	4
STAINLESS STEEL (CF8M)/F316	5
ALLOY 20 (CN-7M)	A2
MONEL	8
HASTELLOY C (CW12MW)	HC
ALLOY 31	31
INCONEL	I
NI-RESIST	NR
17.4 PH SS (CB7CU1)	CB
2205 (CD3M)	22
2507(CE3MN)	25
AL6XN (CN3MN) (254SMO EQUIV)	6X
TITANIUM GRADE 2	T5
TITANIUM GRADE 8	T8
OTHER(SPECIFY)	XX
BLANK	0
ASTM A182 FS1+STL	AFS

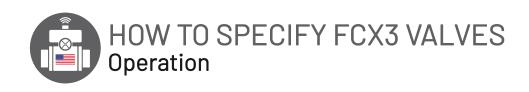
SEAL MATERIAL	CODE
BRUNA	L1
VITON	L2
TEFLON	L3
EPDM	L4
AFLS	L5
GRAPHITE O-RING WITH AFLAN TRANSEAL	L6
POLYURETHANE O RING WITH AFLAS TRANSEAL	L7
CHEMRAZ	L8
GFLT VITON	L9
SPECIAL	LX
BLANK	0
PTFE	PT /

SIZE - PRESSURE CLASS - TYPE-SERIES - BODY MATERIAL - TRIM MATERIAL - STEM MATERIAL

SEAT MATERIAL - SEAL MATERIAL - END CONNECTION 1 - END CONNECTION 2 - OPERATION - OTHER

END CONNECTION 1	CODE
RF	RF
BW	BW
SW	SW
RTJ	RTJ
WAFER	WF
LUG	LG
FLANGED	FL
CLAMP	CL
THREADED	TH
FNPT	FNP
MNPT	MNP
BLANK	0
BUTTWELD SCH5	BW5
BUTTWELD SCH10	BW1
BUTTWELD SCH40	BW4
BUTTWELD SCH80	BW8
BUTTWELD SCH160	BW6

END CONNECTION 2	CODE
RF	RF
BW	BW
SW	SW
RTJ	RTJ
WAFER	WF
LUG	LG
FLANGED	FL
CLAMP	CL
THREADED	TH
FNPT	FNP
MNPT	MNP
BLANK	0
BUTTWELD SCH5	BW5
BUTTWELD SCH10	BW1
BUTTWELD SCH40	BW4
BUTTWELD SCH80	BW8
BUTTWELD SCH160	BW6





OPERATION	CODE
HANDWHEEL	HWH
CHAINWHEEL	CWH
PNEUMATIC SCOTCH YOKE FAIL OPEN	PS0
PNEUMATIC SCOTCH YOKE FAIL CLOSE	PSC
PNEUMATIC SCOTCH YOKE FAIL LAST	PSL
PNEUMATIC RACK AND PINION FAIL OPEN	PR0
PNEUMATIC RACK AND PINION FAIL CLOSE	PRC
PNEUMATIC RACK AND PINION FAIL LAST	PRL
ELECTRIC ACTUATOR FAIL LAST	EFL
ELECTRIC ACTUATOR FAIL OPEN	EF0
ELECTRIC ACTUATOR FAIL CLOSE	EAC
HYDRAULIC ACTUATOR FAIL OPEN	HAO
HYDRAULIC ACTUATOR FAIL CLOSE	HAC
HYDRAULIC ACTUATOR FAIL LAST	HAL
BEVEL GEAR	BGE
WORM GEAR	WGE
RATCHET HANDLE	RHA
HAND LEVER	HLE
BARE STEM	BRS
MANUAL	MAN



- PRESSURE CLASS - TYPE-SERIES - BODY MATERIAL - TRIM MATERIAL - STEM MATERIAL SEAT MATERIAL - SEAL MATERIAL - END CONNECTION 1 - END CONNECTION 2 - OPERATION OTHER

OTHER	CODE
VALVE FULL PORT	FPOR
VALVE REDUCED PORT	RPOR
LIMIT SWITCHES (MECHANICAL)	LSWM
LIMIT SWITCHES (PROXIMITY)	LSWP
FILTER	FILT
REGULATOR	REGU
SS TUBBING/FITTINGS	SSTF
POSITIONER 4-20MA	P420
3 WAY 2 POSITION SOLENOID SS VALVE	3W2S
4 WAY 2 POSITION SOLENOID SS VALVE	4W2S
5 WAY 2 POSITION SOLENOID SS VALVE	5W2S
SS BOLTS/SS NUTS	SSBN
CLOSED LOOP	CLOL
BLANK	0
SOLAR PANELS 24 VDC	SP24
CLASS 1 DIV 1 GR C&D	CL11
CLASS 1 DIV 2 GR C&D	CL12
NEMA 4X	NE4X
NEMA 7X	NE7X
IP65	IP65
IP66	IP66
IP67	IP67
IP68	IP68
MECHANICAL PARTIAL STROKE DEVICE	MPST
ELECTRICAL PARTIAL STROKE DEVICE	EPST
PUSH BUTTON ENCLOSURE WEATHER PROOF	PBEW
PUSH BUTTON ENCLOSURE CLASS 1 DIV 1 GR C&D	PBEX
MANUAL HANDWHEEL ADAPTER	MHAA
HYDRAULIC PUMP	HYDP
V MAP SOLENOIDS	V MAP1
UL1709 FIREPROOF JACKETS	ULFIR
K-GUARD° FIRE RETARDANT COATING	KGFIR
WIRELESS MONITOR SENSOR SERIES 200	F200
OTHER	9999 /

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