

The background of the cover features a series of overlapping circles and intersecting lines in shades of blue and orange, creating a complex geometric pattern. The circles vary in size and are positioned across the entire page, with some lines passing through their centers or tangents.

# Quadrant®

VALVE & ACTUATOR, LLC

CONDENSED  
**CATALOG**

# The Quadrant Story



Quadrant Valve & Actuator was founded in 2000 by veteran quarter-turn "valve people" for the specific purpose of designing, developing and manufacturing the safest, highest quality, code-compliant ball valves, butterfly valves and actuators available today.

We located our headquarters in Broussard, Louisiana in the middle of the Louisiana oil and gas production area, and equidistant from the refining & chemical processing centers of Lake Charles and Baton Rouge. We developed our quarter-turn product line with features that are required on "both sides of the fence" — in the oil and gas production market and also in the chemical/petrochemical processing and refining markets.

Initially, Quadrant's focus was on the development of a complete range of seal-welded ball valves, which eliminate the safety issues associated with 2-piece tailpiece-loaded ball valves. We now offer eight (8) different seal-welded ball valves, with working pressures from 1000 PSIG to 10,800 PSIG. Please see pages 5 and 6.

Next, we developed the only complete

range of ASME B16.34 and API 608 compliant seal-welded threaded and weld-end ball valves that allow end-users to fully comply with current ASME B31 Piping Codes. These are available in Class 800 (1920 PSIG) to Class 4500 (10,800 PSIG) configurations. Please see page 6 and 7.

Quadrant developed four (4) butterfly valve lines to address the different needs of the: oil and gas market; the HVAC market; the industrial market; and the marine market. Our API 609 compliant designs, patented topworks design, United States Coast Guard CFR 46 Category "A" certification, and our ABS listings differentiate these butterfly valves from the generic competition. Please see page 10.

More recently, we developed our unibody and split-body flanged end ball valve lines in ASME/API pressure classes 150, 300 and 600. Our patented, "submerged" live-load packing and topworks system provides our customers with direct-mount actuator and gear operator capability with any ISO 5211 compliant actuation device. Please see page 9.

Our actuators and gear operators are all ISO 5211 compliant, so they direct-mount to our butterfly valves and flanged ball valves. Please see page 11.

Thank you for considering Quadrant!



***Quadrant means Quarter-Turn.***

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Q	1-Pc. UNIBODY BALL VALVES		2-Pc. BALL VALVES	
				
SERIES	10-CC & 10-CS	12-CS & 12-SS	20-NP	20-BP & 20-BS
FEATURES	Unibody Construction Barstock Ball Valve NACE Compliant Competitive Price	Investment Cast Unibody Ball Valve NACE Compliant API 607 Fire-Safe Standard LL Handles	Forged Brass 2-Pc. Ball Valve NPT or Solder Ends	2-Pc. Bronze Ball Valve 600WOG to 4" Size Full Port to 1" Std. SS Handle on 316SS Trim Valves
SIZES	1/4" to 2"	1/4" to 2"	1/4" to 4"	1/4" to 4"
PORT	Double Reduced	Double Reduced	Single Reduced	Full to 1", Single Reduced Above 1"
OPERATING LIMITS	2000WOG 150WSP	2000WOG 150WSP	400WOG 125WSP	600WOG 150WSP
BODY MATERIALS	1017 Carbon Steel	ASTM A216 WCB or ASTM A351 GR CF8M	Forged Brass	Cast Bronze B584 C84400
TRIM MATERIALS	Plated CS or 316SS	316SS Standard	Plated Brass	Plated Brass or 316SS
SEAT MATERIALS	TFM (R-TFE)	TFM (R-TFE)	PTFE	R-PTFE
ENDS	Female NPT	Female NPT	Female NPT or Solder	Female NPT or Solder
OPTIONS	Latch-Lock Lever SS Latch Lock Lever See Page 12	SS Latch-Lock Lever Oval SS Oval Locking Handle SS Tee Handle See Page 12	CS Tee Handle	SS Latch Lock Lever Extended Handle Balancing Stop, Oval SS Locking Oval See Page 12
ORDER FOLDER #	F-10-CC	F-12-CS	F-20-NP	F-20-BP
P/T RATINGS (STANDARD SEATS)				
100F	2000 PSIG	2000 PSIG	400 PSIG	600 PSIG
200F	1500	1500	280	450
300F	975	1050	175	300
350F	650	725	110	200
400F	300	600	0	130
450F	50	300		50
500F	0	50		0

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	2-Pc. BALL VALVES				
					
	SERIES	22-BP & 22-BS	20-CC & 20-CS	23-CS	QE, QA, QH, QC, QB, QX
	FEATURES	2-Pc. Bronze Ball Valve 600 WOG to 4" Size Full Port to 1" STD SS Handle on 316SS Trim Valves ISO Mounting Pad	2-Pc. Construction Barstock Ball Valve NACE Compliant Tamperproof Locking Handles Available	2-Pc. Barstock High Pressure Ball Valve Standard 316SS Trim NACE Compliant	Ball Valves Specifically Designed for Oilfield- NACE Compliant Locking Handles ISO Mounting Pads Direct Mount Std. 316SS Trim & Viton
	SIZES	1/4" to 4"	1/4" to 2"	1/4" to 1"	1" to 4"
	PORT	Full to 1", Single Reduced Above 1"	Single Reduced	Single-Reduced	Full & Reduced 1" to 4" Sizes
	OPERATING LIMITS	600WOG 250WSP	2000WOG 150WSP	3000WOG 150WSP	Up to 5000WOG
	BODY MATERIALS	Cast Bronze B584 C84400	1017 Carbon Steel	1017 Carbon Steel	ASTM A395 Ductile Iron A216 GR WCB Carbon Steel or CF8M Stainless Steel
	TRIM MATERIALS	Plated CS or 316SS	Plated CS or 316SS	316SS Standard	316SS Standard
	SEAT MATERIALS	TFM (R-TFE)	TFM (R-TFE)	TFM (R-TFE) or PEEK	TFM (R-TFE) or PEEK
ENDS	Female NPT	Female NPT	Female NPT	Female NPT	
OPTIONS	SS Latch Lock Lever Oval SS Locking Oval SS Tee Handle SS Locking Bracket ISO Extended Handle Assembly - See Pg. 12	Latch Lock Lever SS Latch Lock Lever See Page 12	PEEK Seats Latch Lock Lever SS Latch Lock Lever See Page 12	PEEK Seats Square Drive Handle See Page 12	
ORDER FOLDER #	F-22-BP	F-20-CC	F-23-CS	F-QA	
P/T RATINGS (STANDARD SEATS)					
				(QA SERIES)	
100F	600 PSIG	2000 PSIG	3000 PSIG	1500 PSIG	
200F	480	1500	1500	1500	
300F	390	975	975	1000	
350F	330	650	650	650	
400F	260	300	300	300	
450F	50	50	50	50	
500F	0	0	0	0	

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SEAL WELDED BALL VALVES				
				
	<b>S1-SS</b>	<b>S2-SS</b>	<b>SX-SS</b>	<b>S5-SS</b>
<b>FEATURES</b>	Seal-Welded CF8M Ball Valve, Full Port Std. SS Latch Lock Handles NACE Compliant Mounting Pads	Seal-Welded CF8M Ball Valve, 2000WOG Std. SS Latch Lock Handles NACE Compliant Mounting Pads	Seal-Welded CF8M Ball Valve, Full Port Std. SS Latch Lock Handles 2000WOG to 2", NACE, ISO Mounting Pads	Seal-Welded CF8M Ball Valve, 5000WOG Std. SS Latch Lock Handles NACE, ISO Mounting Pads API 607 4th Edition Fire Safe
<b>SIZES</b>	1/4" to 3"	1/4" to 2"	1/4" to 4"	1/4" to 2"
<b>PORT</b>	Full Port	Single Reduced	Full Port	Full & Reduced
<b>OPERATING LIMITS</b>	1000WOG 150WSP	2000WOG 150WSP	2000WOG to 2" 200WSP	5000WOG
<b>BODY MATERIALS</b>	ASTM A351GR CF8M	ASTM A351 GR CF8M	ASTM A351 GR CF8M	ASTM A351 GR CF8M
<b>TRIM MATERIALS</b>	316SS	316SS	316SS	316SS or 17-4PH
<b>SEAT MATERIALS</b>	TFM (R-TFE)	TFM (R-TFE)	TFM (R-TFE)	ACETAL or PEEK
<b>ENDS</b>	Female NPT	Female NPT or MxF NPT	Female NPT	Female NPT
<b>OPTIONS</b>	SS Locking Oval SS Tee Handle Spring Return Handle Pneumatic or Electric Actuation, See Pg. 12	SS Locking Oval SS Tee Handle Spring Return Handle Pneumatic or Electric Actuation, See Pg. 12	SS Locking Oval SS Tee Handle Spring Return Handle Pneumatic or Electric Actuation, See Pg. 12	SS Locking Oval SS Tee Handle Spring Return Handle Pneumatic or Electric Actuation, See Pg. 12
<b>ORDER FOLDER #</b>	F-S1-SS	F-S2-SS	F-SX-SS	F-S5-SS
<b>P/T RATINGS (STANDARD SEATS)</b> (TO 2" SIZE)				
<b>100F</b>	1000 PSIG	2000 PSIG	2000 PSIG	5000 PSIG
<b>200F</b>	1000	1500	1500	1800 PSIG @ 185F
<b>300F</b>	640	1000	1000	0
<b>350F</b>	400	650	650	
<b>400F</b>	200	300	300	
<b>450F</b>	50	50	50	
<b>500F</b>	0	0	0	

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## ASME B16.34/API 608 COMPLIANT SEAL WELDED BALL VALVES



SERIES	SB-CS & SB-SS	S3-CS & S3-SS	S6-CS & S6-SS	S10-SS
FEATURES	Seal-Welded CF8M Ball Valve ASME Class 900 Std. SS Latch Lock Handles NACE, ISO Mounting Pads API 607 4th Edition Fire Safe	Seal-Welded CF8M Ball Valve ASME Class 1500 Std. SS Latch Lock Handles NACE, ISO Mounting Pads API 607 4th Edition Fire Safe	Seal-Welded CF8M Ball Valve ASME Class 2500 Std. SS Latch Lock Handles NACE, ISO Mounting Pads API 607 4th Edition Fire Safe	Seal-Welded CF8M Ball Valve ASME Class 4500 Std. SS Latch Lock Handles NACE, ISO Mounting Pads API 607 4th Edition Fire Safe
SIZES	1/4" to 2"	1/4" to 2"	1/4" to 2"	1/4" to 1/2"
PORT	Single Reduced	Full & Reduced	Full & Reduced	Reduced
OPERATING LIMITS	WCB: 2220WOG CF8M: 2160WOG 250WSP	WCB: 3705WOG CF8M: 3600WOG	WCB: 6170WOG CF8M: 6000WOG 250WSP	10,800WOG 250WSP
BODY MATERIALS	ASTM A351 GR CF8M or A216 GR WCB	ASTM A351 GR CF8M or A216 GR WCB	ASTM A351 GR CF8M or A216 GR WCB	ASTM A351 GR CF8M
TRIM MATERIALS	316SS	316SS or 17-4PH	316SS or 17-4PH	316SS or 17-4PH
SEAT MATERIALS	TFM (R-TFE), PEEK & UHMW Optional	ACETAL or PEEK	PEEK	PEEK
ENDS	Female NPT	Female NPT or Socket Weld	Female NPT, Male NPT or Socket Weld	Female NPT, Socket Weld or Threaded/Coned Tube
OPTIONS	SS Locking Oval SS Tee Handle Spring Return Handle ISO Extended Handle Pneumatic or Electric Actuation, See Pg. 12	SS Locking Oval Pneumatic or Electric Actuation PEEK Seats Socket Weld Ends See Page 12	SS Locking Oval Male X Female NPT Socket Weld Ends Pneumatic or Electric Actuation See Page 12	SS Locking Oval Pneumatic or Electric Actuation See Page 12
ORDER FOLDER #	F-SB-SS	F-S3-SS	F-S6-SS	F-S10-SS

### P/T RATINGS (STANDARD SEATS)

100F	2160 PSIG	3600 PSIG	6000 PSIG	10,800 PSIG
200F	1650	1800 PSIG @ 185F	5250	6000
300F	1200	0	4000	4000
350F	850		3500	3500
400F	620		3000	3000
450F	325		1500	1500
500F	50		200	200

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<div>  <div> <b>MAINTENANCE-DESIGN BALL VALVES</b> </div> </div>				
				
SERIES	M1-NP & M1-NS	M2-CS & M2-SS	M2-NN & M2-QQ	UU-CS & UU-SS
FEATURES	600WOG Brass 3-Pc. Ball Valve, Full Port Extended Solder Ends Available Actuator Mounting Pads	ASME B16.34/API 608 Class 800 3-Pc. Ball Valve CF8M or WCB, 316SS Trim, ISO Mounting Pads, NACE API 607 4th Edition Fire Safe	3-Pc. Tube Ended CF8M Ball Valve, ASME Class 800 Compliant or 3000WOG Rated, ISO Mounting, NACE & API 607 Compliant	Double Union-End Full Port Ball Valve 3000WOG Actuator Mounting Pads NACE Compliant Stainless Handle
SIZES	1/4" to 2"	1/4" to 2-1/2"	1/4" to 1"	1/4" to 2"
PORT	Full Port	Full & Reduced	Reduced Port	Full Port
OPERATING LIMITS	600WOG 150WSP	WCB: 1973WOG CF8M: 1920 WOG 250WSP	M2: 1920WOG M3: 3000WOG 250WSP	3000WOG 150WSP
BODY MATERIALS	Forged Brass	ASTM A351 GR CF8M OR A216 GR WCB	ASTM A351 GR CF8M	ASTM A351 GR CF8M or A216 GR WCB
TRIM MATERIALS	Plated Brass or 316SS	316SS	316SS	316SS
SEAT MATERIALS	TFM (R-TFE) UHMW Optional	TFM (R-TFE), PEEK & UHMW Optional	TFM (R-TFE), PEEK & UHMW Optional	TFM (R-TFE), PEEK
ENDS	Female NPT, Solder or Extended Solder	Female NPT, Socket Weld Ext. SW or Ext. Butt Weld	Tube Ends	Female NPT or Socket Weld
OPTIONS	UHMW Seats/Seals SS Lever Locking Device Pneumatic or Electric Actuation, See Pg. 12	UHMW Seats/Seals PEEK Seats, SS Locking Oval, Live Load Packing Pneumatic or Electric Actuation, See Pg. 12	UHMW Seats/Seals PEEK Seats, SS Locking Oval, Live Load Packing Pneumatic or Electric Actuation, See Pg. 12	PEEK Seats SS Locking Lever Pneumatic or Electric Actuation See Page 12
ORDER FOLDER #	F-M1-NP	F-M2-SS	F-M2-QQ	F-UU-CS
P/T RATINGS (STANDARD SEATS)				
100F	600 PSIG	1920 PSIG	1920 PSIG	3000 PSIG
200F	450	1600	1600	2250
300F	300	1050	1050	1500
350F	200	800	800	800
400F	130	500	500	400
450F	50	300	300	50
500F	0	50	50	0

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<div>  <b>MULTI-PORT BALL VALVES</b> </div>					
					
SERIES	TW-BP & TW-BS	TB-CS & TB-SS	3W-SS & 4W-SS	G3-CS & G3-SS	22-SE & SB-SE
FEATURES	3-Way Bronze Ball Valve, Full Port to 1-1/2", "L" Port, Std. SS Handle ISO Mounting Pads High CV Factors	Seal-Welded CF8M 3-Way Ball Valve ASME/API Class 900 "L" Port, Std. SS Latch Lock Handles, NACE, ISO Mounting Pads	3-Way & 4-Way 4-Seated Ball Valves, Live-Load Stem Packing, ISO Direct Mount Actuation "L", "T" & "Double-L" Porting Available	Seal-Welded CF8M Gauge Valve ASME Class 1500 Std. SS Latch Lock Handles, NACE, ISO Mounting Pads API 607 4th Edition Fire Safe	Bronze or CF8M Body Safety-Exhaust Valves Bleed Downstream Pressure When Handle is Moved to Closed Position
SIZES	1/4" to 2"	1/4" to 2"	1/4" to 2"	1/2" to 2"	1/4" to 2"
PORT	Full & Reduced "L" Port	Reduced "L" Port	Full & Reduced, "L", "T", or "Double-L" Port	Full & Reduced	Full & Reduced
OPERATING LIMITS	600WOG 125 WSP	WCB: 2220WOG CF8M: 2160WOG 250WSP	1000WOG 150WSP	WCB: 3705WOG CF8M: 3600WOG 250WSP	200PSIG
BODY MATERIALS	Cast Bronze B584 C84400	ASTM A351 GR CF8M or A216 GR WCB	ASTM A351 GR CF8M	ASTM A351 GR CF8M or A216 GR WCB	Cast Bronze or ASTM A351 GR CF8M
TRIM MATERIALS	Plated Brass or 316SS	316SS	316SS	316SS or 17-4PH	Plated Brass or 316SS
SEAT MATERIALS	PTFE	TFM (R-TFE), PEEK & UHMW Optional	TFM (R-TFE)	PEEK	TFM (R-TFE)
ENDS	Female NPT	Female NPT	Female NPT	Male X Female NPT	Female NPT
OPTIONS	SS Tee Handle Spring Return Handle, ISO Extended Handle Pneumatic or Electric Actuation See Page 12	SS Locking Oval, SS Tee Handle, Spring Return Handle, ISO Extended Handle Pneumatic or Electric Actuation, See Pg. 12	Cast CF8M Handle Pneumatic or Electric Actuation See Page 12	SS Locking Oval Pneumatic or Electric Actuation See Page 12	SS Locking Oval, SS Tee Handle, Spring Return Handle, ISO Extended Handle, Pneumatic or Electric Actuation, See Pg. 12
ORDER FOLDER #	F-TW-BP	F-TB-SS	F-3W-SS	F-G3-SS	F-22SE & F-SB-SE
P/T RATINGS (STANDARD SEATS)					
100F	600 PSIG	2160 PSIG	1000 PSIG	3600 PSIG	200 PSIG
200F	400	1650	1000	3095	200
300F	200	1200	600	2795	200
350F	150	850	400	1900	150
400F	50	620	200	1500	100
450F	0	325	50	500	50
500F		50	0	200	0

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## ASME B16.34 / API 608 COMPLIANT FLANGED-END BALL VALVES



SERIES	F1-CS & F1-SS	F2-CS & F2-SS
FEATURES	Unibody Construction ASME/API Compliant Flanged-End Ball Valves in Class 150 and 300. 1-1/2"-6" Sizes feature Patented "Submerged" Live Load Stem Packing for Direct-Mount of any ISO 5211 Actuator or Gear Operator. All Sizes have ISO 5211 Mounting Pads. Standard 316SS Trim, Stainless Locking Handles, Grounded Ball & Stem, and TFM Seats.	2-Pc. Full Port, ASME/API Compliant Flanged-End Ball Valves in Class 150, 300 and 600. All Sizes feature Patented "Submerged" Live Load Stem Packing System for Direct-Mount of any ISO 5211 Actuator or Gear Operator. Standard 316SS Trim, Locking Handles, Grounded Ball & Stem, and TFM Seats.
SIZES	1/2" to 6"	1" to 10"
PORT	Single Reduced	Full Port
PRESSURE CLASSES	ASME Class 150 & 300	ASME Class 150, 300 & 600
BODY MATERIALS	ASTM A351 GR CF8M or A216 GR WCB	ASTM A351 GR CF8M or A216 GR WCB
TRIM MATERIALS	Standard 316SS Optional: Hastelloy, Alloy-20, Monel	Standard 316SS Optional: Hastelloy, Alloy-20, Monel
SEAT MATERIALS	Standard TFM (R-TFE) Optional: UHMW and High Temp TFM	Standard TFM (R-TFE) Optional: UHMW and High Temp TFM
ENDS	Raised Face Flanged	Raised Face Flanged & Ring-Type Joint (Class 600)
OPTIONS	SS Locking Oval, SS Tee Handle, ISO Extended Handle, Pneumatic or Electric Actuation Gear Operators See Page 12	ISO Extended Handle Pneumatic or Electric Actuation Gear Operators See Page 12
ORDER FOLDER #	F-F1-SS	F-F2-SS

### P/T RATINGS (STANDARD SEATS)

	CLASS 150	CLASS 300	CLASS 150	CLASS 300	CLASS 600
100F	275 PSIG	720 PSIG	275 PSIG	720 PSIG	1440 PSIG
200F	240	620	240	620	1240
300F	215	560	215	560	1120
350F	205	535	205	535	1080
400F	195	425	195	425	425
450F	180	300	180	300	300
500F	75	75	75	75	75

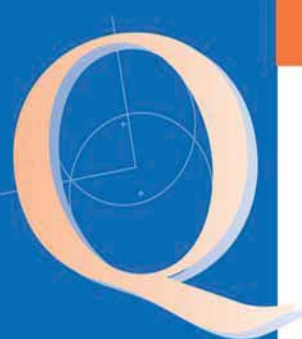
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BUTTERFLY VALVES				
				
				
SERIES	BFV-T	BFV-D	BFV-C	BFV-A
FEATURES	Threaded-End Nickel-Plated Cast Iron Body Butterfly Valves feature 416SS Shaft, Alum-Brz Disc, 304SS Fasteners & Detented Handle	Ductile Iron Body, "Long-Neck" Butterfly Valve in Wafer & Lug Styles. Patented Topworks allows Direct Mount of ISO 5211 Operators. Lug Style is Rated for Full Pressure Dead End Service with No Downstream Flange.	Ductile Iron Body, "Short-Neck" Lug & Wafer Style Butterfly Valve. Patented Topworks allows Direct Mount of ISO 5211 Operators. Lug Style is Rated for Full Pressure Dead End Service with No Downstream Flange, Internal Disc Drive System.	USCG Category "A" Certified BFV, Listed by ABS. Ductile Iron Lug & Wafer Styles, Same Direct Mounting System as BFV-C. Bi-Directional Dead-End Service with No Downstream Flange. 2-Pc. Shaft with Internal Drive System provides High Flow/Low Pressure Drop.
SIZES	2", 3" and 4"	2" to 48"	2" to 12"	2" to 12"
DISC DRIVE	Bolted to Shaft	Pinned to Shaft	Internal Keyed Drive	Internal Keyed Drive
OPERATING LIMITS	200 PSIG 120F	200 PSIG and up to 375F	200 PSIG and up to 375F	200 PSIG and up to 375F
BODY MATERIALS	Cast Iron ENP Plated	ASTM A536 Ductile Iron	ASTM A536 Ductile Iron	ASTM A395 Ductile Iron Optional: CF8M SS
TRIM MATERIALS	Shaft: 416SS Disc: Alum-Brz Internal Fasteners: 304SS	Shaft: 416SS Std. Disc: ENP-DI, Alum-Brz or CF8M	Shaft: 416SS Std. Disc: ENP-DI, Alum-Brz or CF8M	Shaft: 316SS Std. Disc: ENP-DI, Alum-Brz or CF8M
SEAT MATERIALS	BUNA-N Standard Optional: VITON	EPDM or BUNA-N	BUNA-N, EPDM or VITON	BUNA-N, EPDM, VITON, PTFE-Lined
ENDS	Female NPT	Lug or Wafer Style	Lug or Wafer Style	Lug or Wafer Style
OPTIONS	VITON Seals Pneumatic or Electric Actuation See Page 12	Infinite Position Lever 2-Position Lever, SS Topworks, Gear Operator, Pneumatic or Electric Actuation, See Page 12	Infinite Position Lever 2-Position Lever, SS Topworks, Gear Operator, Pneumatic or Electric Actuation, See Page 12	All CF8M/316SS Constr., Infinite Position Lever, 2- Position Lever, SS Topworks, Gear Operator, Pneumatic or Electric Actuation, See Pg. 12
ORDER FOLDER #	F-BFV-T	F-BFV-D	F-BFV-C	F-BFV-A
P/T RATINGS (UP TO 24")				
BUNA-N SEATS	200 PSIG @ 120F	200 PSIG @ 180F	200 PSIG @ 180F	200 PSIG @ 180F
EPDM SEATS	N/A	200 PSIG @ 250F	200 PSIG @ 250F	200 PSIG @ 250F
VITON SEATS	200 PSIG @ 300F	200 PSIG @ 375F	200 PSIG @ 375F	200 PSIG @ 375F

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## ACTUATORS AND GEAR OPERATORS



SERIES	GO SERIES	DG SERIES	C SERIES
FEATURES	High-Efficiency Cast Iron Worm Gear Operators, Multiple ISO 5211 Mounting Patterns, All Torque Ratings Based on 80 LB Rimforce per MSS/API Standards, External Lube Fitting, External Failure when Over-Torqued.	High-Efficiency Cast Iron Worm Gear Declutchable Over-Rides, Multiple ISO 5211 Mounting Patterns, All Torque Ratings Based on 80 LB Rimforce per MSS/API Standards, External Lube Fitting, External Failure when Over-Torqued. Lowest Profile Available.	Double Rack & Pinion Pneumatic Actuators, Double-Acting and Spring-Return Models, Dual Position Limit Stops, Encapsulated Spring Assemblies, Dual ISO Patterns and Namur Solenoid/Topworks Mounting. CW & CCW Rotation available for SR Units. Stainless Steel External Hardware, Epoxy-Coated End Caps.
TORQUE OUTPUT	2500 to 68,000 IN-LBS	3000 to 17,700 IN-LBS	125 to 11,000 IN-LBS
OUTPUT SHAFT STYLE	Keyed Inserts	ISO Double Square and Keyed Inserts	Female ISO Double-Square
INPUT SHAFT STYLE	N/A	Male ISO Pattern Square Drive	5/8" Male Square
HANDWHEEL SIZES	6" to 36"	12" and 18"	N/A
BODY MATERIALS	Cast Iron	Cast Iron	Hard Anodized Aluminum
INTERNAL MATERIALS	Ductile Iron & Plated Carbon Steel	Ductile Iron & Plated Carbon Steel	Aluminum & Plated Carbon Steel
SEAL MATERIALS	BUNA-N	BUNA-N	Standard BUNA-N Optional VITON
OPTIONS	Top Mounted Namur Limit Switch, Chain Wheel Operator, Locking Device, Blank Output Shaft Inserts, See Page 12	ISO Pattern Output Shaft Inserts Blank Inserts See Page 12	Namur Mount Solenoid Valves, Top Mount Namur Limit Switch, Breather Block for SR Service, Reducing Double-Square Inserts, 304SS Brackets & Drivers, CCW SR Operation, See Page 12
ORDER FOLDER #	F-GO SERIES	F-DG SERIES	F-C SERIES

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## OPTIONS & ACCESSORIES

BALL VALVE OPTION OR ACCESSORY				
AVAILABLE ON:	20-BP/BS, 22, 12, S1, S2, SB, S3, S5, S6, M2, F1	20-NP, 22, 12, S1, S2, SB	ALL EXCEPT 20-NP, LARGE F1 AND F2	20-BP/BS
BALL VALVE OPTION OR ACCESSORY				(High Temp Seats) 
AVAILABLE ON:	20-BP/BS	S1, S2, SB, 22	SB, M2, 22, F1, F2	20-CS, F1, F2
BALL VALVE AND BUTTERFLY VALVE OPTION OR ACCESSORY			(Alloy Ball and Stem) 	
AVAILABLE ON:	ALL BV EXCEPT 20NP, 20-BP/BS, 20-CC/CS, 10-CC/CS, 12-CS/SS, PLUS ALL BFV	ALL BV EXCEPT 20NP, 20-BP/BS, 20-CC/CS, 10-CC/CS, 12-CS/SS, PLUS ALL BFV	SEE INDIVIDUAL PRODUCT SHEETS	ALL BV EXCEPT 20NP, 20-BP/BS, 20-CC/CS, 10-CC/CS, 12-CS/SS, PLUS ALL BFV
BALL VALVE AND BUTTERFLY VALVE OPTION OR ACCESSORY	(2-Position Lock Plate) 			
AVAILABLE ON:	BFV-D, BFV-C, BFV-A	C SERIES, GO SERIES	C SERIES	C SERIES, DG SERIES, GO SERIES

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