

DEMCO Gate Valves

Dependability, in-line repairability, flexible trim options and drop-tight, position shutoff

TECHNOLOGY



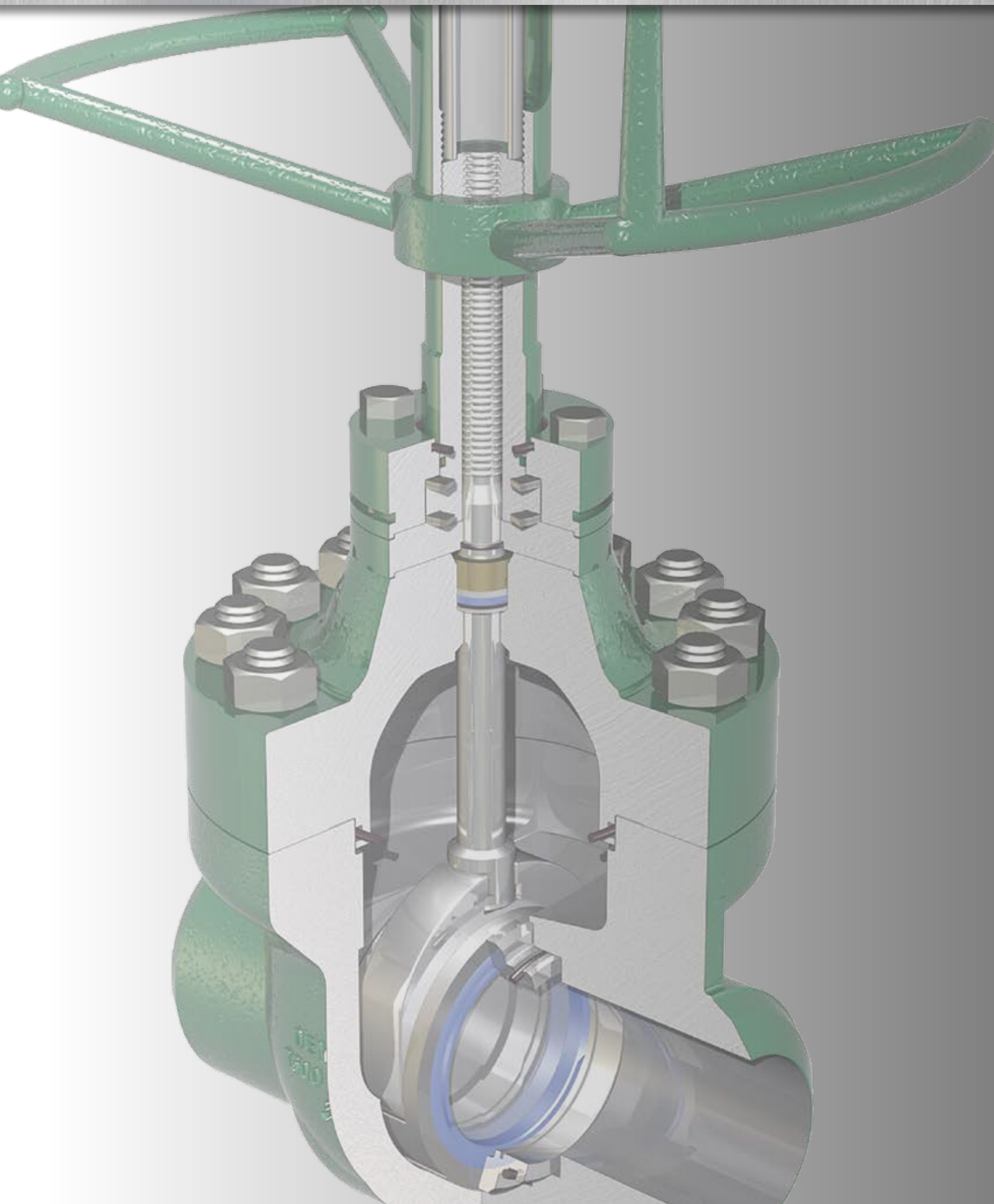


Table of Contents

DEMCO GATE VALVES

Introduction.....	2
Series DM Gate Valves	3
Series DM 1000 to 5000 psi Gate Valves.....	4
Series DM 7500 psi Gate Valves	5
Series DT/DB Gate Valves	7
Enhanced Oil Recovery Accessories	9
Product Specifications	
General Technical Information.....	10
Dimensions and Materials/Parts List	
Series DM 7500 Gate Valves – 7500 psi WP.....	12
Series DM Gate Valves – 2000, 3000, and 5000 psi WP.....	22
Series DM Gate Valves – ASME Classes 400 and 600	34
Series DM Gate Valves – ASME Classes 900 and 1500	38
Series DT Gate Valves – ASME Classes 600, 900, and 1500.....	42
CAMSERV Aftermarket Services for Valves and Actuation.....	52
Trademark Information	53

DEMCO Gate Valves



Oklahoma City,
Okla., USA

Cameron is a leading provider of valves, valve automation, and measurement systems to the oil and gas industry. Our products are primarily used to control, direct, and measure the flow of oil and gas as it is moved to refineries, petrochemical plants, and industrial centers for processing.

We provide valve products that are sold through distributor networks worldwide for use in both oil and gas and industrial applications and include such widely recognized brands as DEMCO®, NAVCO®, NEWCO®, NUTRON®, THORNHILL CRAVER®, TECHNO™, TOM WHEATLEY®, WHEATLEY®, and WKM®.

Cameron's DEMCO gate valves are the valves of choice, engineered and proven for drilling and production industries. Designed for dependable, heavy-duty performance in abrasive and corrosive service conditions, DEMCO gate valves are commonly selected for a number of oilfield applications.

SERIES DM GATE VALVES

Cameron's DEMCO Series DM gate valves, the premier gate valve in the oil and gas drilling market, are specifically engineered for the rigorous requirements of oilfield applications. Designed for dependable, heavy-duty performance in abrasive service conditions, DEMCO DM gate valves are commonly selected for a number of oilfield applications, including:

- Drilling standpipe manifold
- Pump manifold block valves
- High-pressure mud mixing lines
- High-pressure drilling system block valves

The DEMCO Series DM gate valves are available in ASME Classes 400, 600, 900, and 1500. They also are available in API working pressures 2000, 3000, and 5000 psig (not API monogrammed).

Features and Benefits

In-Line Field Repairability

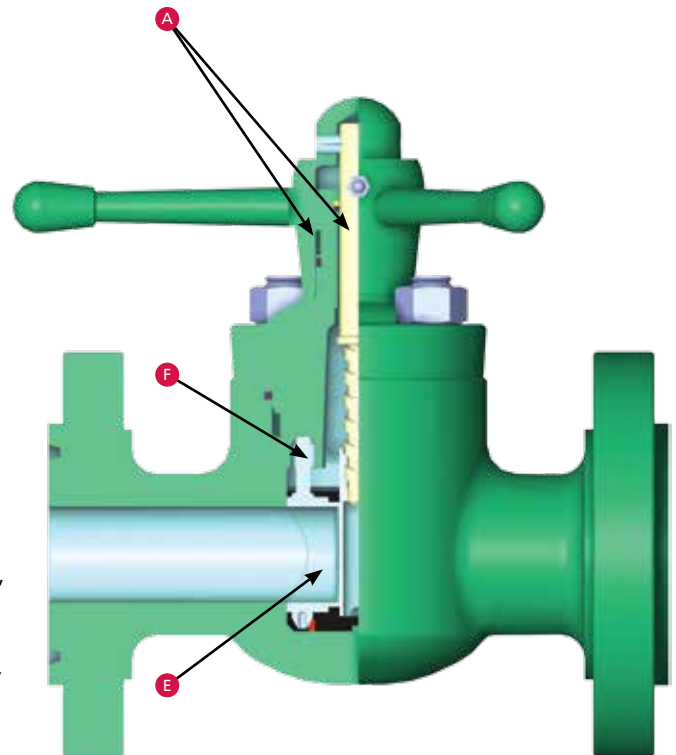
The bonnet is easily removed for internal parts inspection and/or replacement without removing the valve from the line. This design simplicity permits fast and easy service without the need for special tools.

Flexible Trim Offerings

Optional materials for stems, gates, seat inserts and seat elastomers make it easier to trim valves for a wide range of service conditions. Three internal plastic coatings for the body and bonnet are offered to improve resistance to wear and corrosion.

Double Acting Thread Design for Fast Operation

- A. The ASME series double acting thread design contains a threaded stem in the gate working with threads in the bonnet and handle assembly. Stems are polished and include a dependable O-ring and anti-extrusion seal. This unique design is economical and effective. Note: the 4" (100 mm) ASME Class 1500 valve is a double acting, rising stem design, similar to the 4" (100 mm) 3000 psi valve.
- B. The DM 2000, 3000, and 5000 psig working pressure valves contain double acting threads working together in a specially designed stem screw, screw housing, and stem arrangement. Note: the 4" (100 mm) and larger 5000 psi valve is a single-thread, heavy-duty, rising stem design with bearings.
- C. The rising stem design protects the stem threads from the lading.
- D. Larger DM 3000 and 5000 psi gate valves include a sight lens to view the stem for determining gate position.



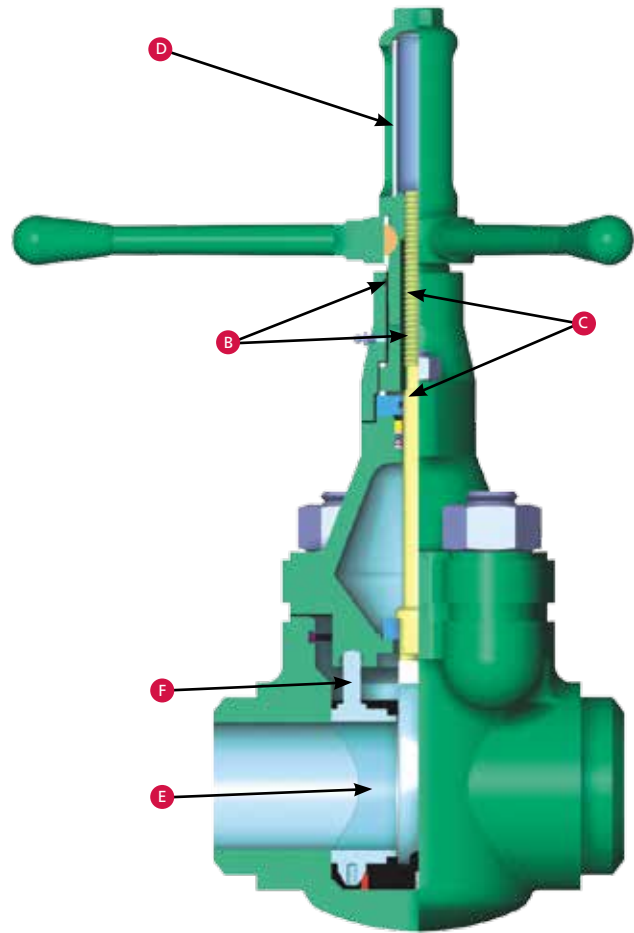
Series DM 3" (80 mm) ASME 900/1500 Gate Valve

SERIES DM 1000 TO 5000 PSI GATE VALVES

Exclusive Seat Design for Drop-Tight Sealing

The DEMCO Series DM gate valve seat uses a unique design to provide a drop-tight shutoff in abrasive and erosive service.

- E.** The seat consists of two identical metal wear rings encapsulated in elastomer to form a cylindrical shape with a gate slot and two round ports. The closed gate bears on the downstream wear ring, while the elastomer provides a drop-tight pressure-responsive seal around the port.
- F.** The cylindrical seat assembly fits into the machined body cavity and is expanded outward toward the valve ports by the bonnet and spread ring in the bottom of the seat. The expansion occurs when the bonnet is tightened onto the body while engaging the seat pin extensions from both wear rings. The spread ring ensures the seat elastomer presses uniformly against the body bore. This design ensures the seat seals tight against the body and around each valve port. This design has proven to be effective even if the gate and seat ring become scored or abraded during service. When it comes time for maintenance, the seat's single-piece design makes it easy to pull out of the body for replacement.



Series DM 4" (100 mm) 5000 WP Gate Valve (Four-Bolt Design Shown)



For proper valve repair, use Cameron's DEMCO replacement parts.

SERIES DM 7500 PSI GATE VALVES

Features and Benefits

In-Line Field Repairability

The bonnet is easily removed for internal parts inspection and/or replacement without removing the valve from the line. This design simplicity permits fast and easy service without the need for special tools.

Heavy-Duty Roller Bearings

Heavy-duty stem roller bearings reduce torque on 4" (100 mm) and larger valves.

Floating Slab Gate Design

A slab gate with a "T" slot stem connection allows the gate to float to the seat, providing a tighter pressure-responsive seal.

A. Unique, abrasion resistant, one-piece seat design

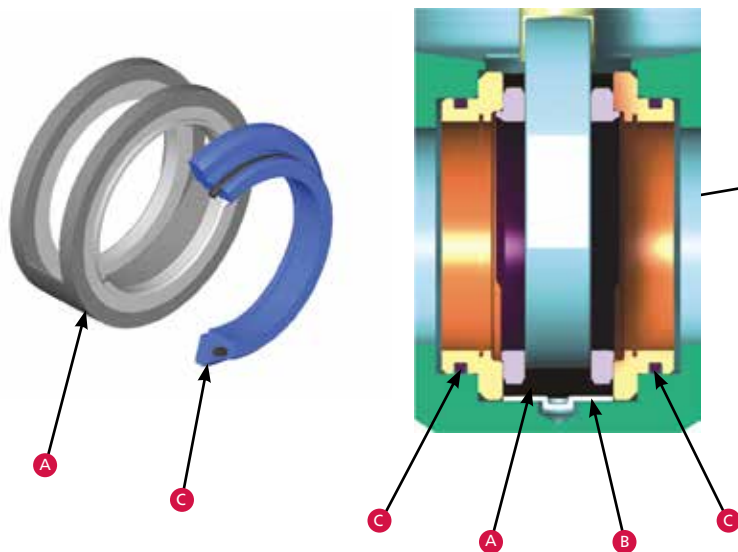
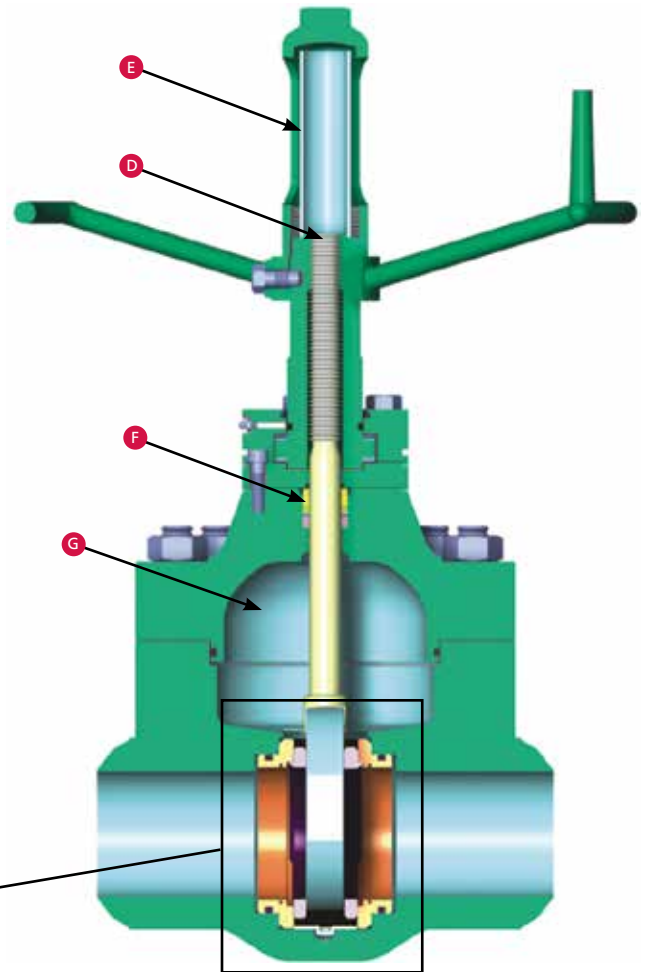
The seat assembly consists of two stainless steel insert/support rings to which a resilient elastomer is permanently bonded. The elastomer provides tight shutoff after long use in abrasive service. The stainless steel rings are corrosion and erosion resistant. The one-piece design makes field replacement easier.

B. Locking seat alignment

The seat assembly is engineered with a metal lock shell that aligns the seat in the bottom of the valve. This design ensures accurate seat alignment with reduced resistance to flow.

C. Body wear rings

Surface hardened alloy body wear rings back up both sides of the seat. These rings extend the service life of the valve by absorbing erosive wear that can cause damage to the body around the seat bore area.



D. Rising stem design

The DEMCO DM 7500 gate valve uses a rising stem design that isolates and protects the threads from the line medium. The rising stem also indicates gate position.

E. Visual position indicator lens

On 3" (80 mm) and larger valves, a clear position indicator lens allows the operator to easily determine whether the valve is open or closed. The indicator lens also helps to protect the stem threads from the elements.

F. Replaceable stem packing

The stem packing can be replaced without removing the bonnet from the valve, 3" to 6" (80 mm to 150 mm), saving time when this maintenance may be required. Note: line and valve pressure must be relieved before performing this maintenance.

G. Flow cleansed design

The body cavity area is designed to allow continuous flushing by the fluid flow. This action prevents the valve from sanding up, even in standpipe installations.

DM Series Pressure Classes and Sizes

Size	in.	(mm)	400	600	900	1500	1000	2000	3000	5000	7500*
FP	1-1/2	(40)									•
FP	2	(50)	•	•	•	•		•	•	•	•
FP	2-1/2	(65)	•	•	•	•		•	•		
FP	3	(80)	•	•	•	•		•	•	•	•
FP	4	(100)	•	•	•	•		•	•	•	•
FP	5	(125)					•		•	•	•
FP	6	(150)	•	•	•						
RP	2 x 1-1/2	(50 x 40)		•							
RP	2-1/2 x 2	(65 x 50)						•	•	•	
RP	3 x 2	(80 x 50)	•	•							
RP	4 x 3	(100 x 80)							•	•	•
RP	5 x 4	(125 x 100)							•	•	•
RP	6 x 4	(150 x 100)								•	
RP	6 x 5	(150 x 125)								•	•
RP	8 x 6	(200 x 150)		•							

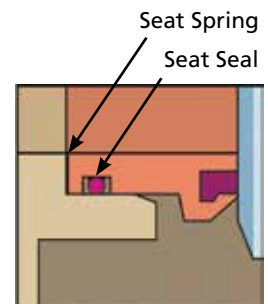
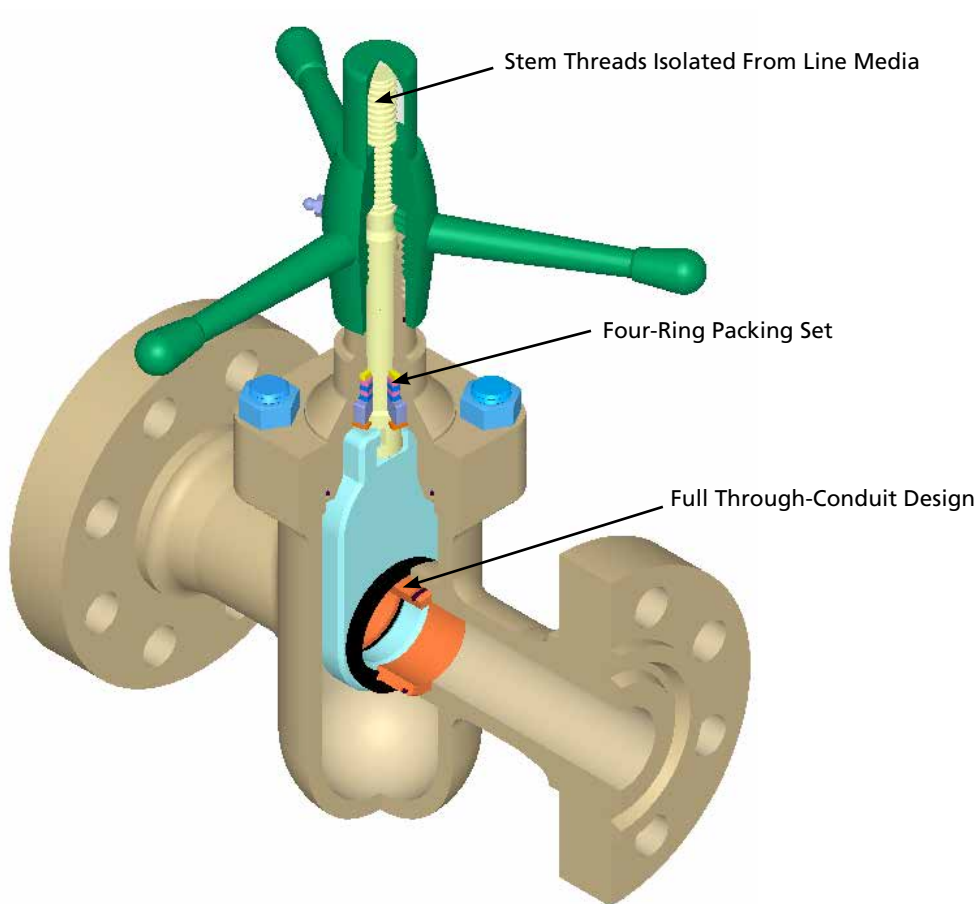
* Other weld connections are available. Consult Cameron for information.

SERIES DT/DB GATE VALVES

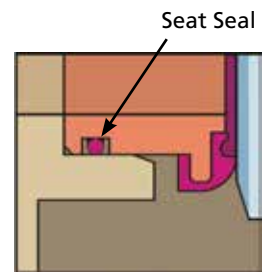
Cameron's DEMCO Series DT/DB gate valves are recognized for their quality design, rugged dependability, and corrosion resistance, particularly for use in waterflood and CO₂ applications.

DEMCO aluminum bronze and stainless steel valves and accessories are designed specifically for the demanding requirements of corrosive CO₂ injection and waterflood applications in the enhanced oil recovery market.

- The handle moves up and down on the bonnet, or the top of the stem is visible during operation, providing visible aid to determine whether the valve is open or closed.



SEAT ASSEMBLY DETAIL
P-10
(SEAT/SEAL OPTION 6)
SEAT SPRING AND SEAL
PART OF SEAT ASSEMBLY



SEAT ASSEMBLY DETAIL
PEROXIDE-CURED BUNA-N
OR FKM
(SEAT/SEAL OPTION 1 OR 2)
SEAT SEAL PART OF SEAT
ASSEMBLY

SEE PAGES 36 THROUGH 43 FOR MATERIAL SPECIFICATIONS

Optional Materials:

DT Series:

- SS Body and Bonnet, FKM or P-10 Seats

DB Series:

- FKM Seat Elastomer
- Peroxide-Cured Buna-N

DT and DB Series Pressure Classes and Sizes

DT Series Threaded and Flanged						
Size	in.	(mm)		ASME Class 600	ASME Class 900	ASME Class 1500
FP	2	(50)		•	•	•
FP	2-1/2	(65)		•	•	•
FP	3	(80)		•	•	•
FP	4	(100)	(Flanged Only)	•	•	•
FP	6	(150)	(Flanged Only)		•	
DB Series Valves (Consult Cameron for Drawings)						
FP	6	(150)		•	•	•
RP	6 x 4	(150 x 100)		•	•	•
RP	8 x 6	(200 x 150)		•	•	

Features and Benefits

In-Line Field Repairability

The bonnet is easily removed for internal parts inspection and/or replacement without removing the valve from the line. This design simplicity permits fast and easy service without the need for special tools.

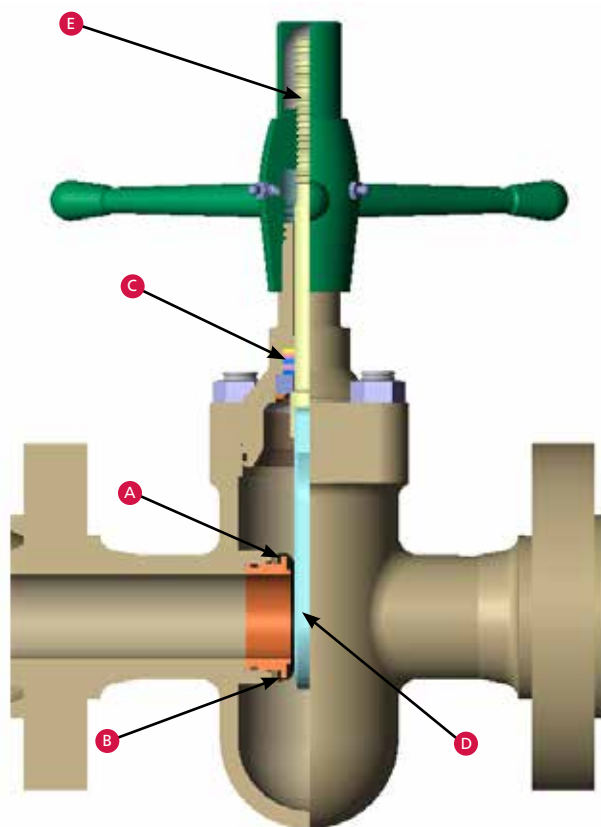
Corrosion-Resistant Materials are Standard

Body and bonnet materials, as well as all internal wetted parts, comply with NACE RP-0475.

Rising Stem Design

The handle moves up and down on the bonnet, or the top of the stem is visible during operation, providing visible aid to determine whether the valve is open or closed.

- A. **Pressure-responsive drop-tight sealing**
Standard seats consist of 316 SS seat rings encapsulated with 90 durometer, peroxide-cured Buna-N elastomer to provide reliable, drop-tight sealing for extended service life.
- B. **Superior abrasion resistance**
Buna-N elastomer encapsulated seats also provide an excellent deterrent to abrasion, further enhancing extended service life.
- C. **Four-ring stem packing set**
The DEMCO Series DT stem seal design uses four packing rings, preventing leakage into the stem journal and outside the valve.
- D. **Through-conduit gate design**
Full through-conduit design ensures non-turbulent flow and gate alignment for improved valve performance and longer service life.
- E. **Non-wetted stem thread design**
The DEMCO stem design isolates corrosive lading from contacting stem threads, preventing stem seizure and ensuring long, trouble-free valve performance.



Series DT Gate Valves

For proper valve repair, use Cameron's DEMCO replacement parts.

Series DB Gate Valve

The DEMCO Series DB gate valve is available for the large 6" (150 mm) and 8" (200 mm) pipe sizes in the enhanced oil recovery market. These valves also feature an aluminum bronze body and bonnet as standard. Internal parts are 316 SS. The exclusive seat design of the DEMCO Series DB gate valve is the same proven design found in the DEMCO Series DM gate valve. The seat consists of two identical metal wear rings encapsulated in elastomer to form a cylindrical shape with a gate slot and two round ports. The closed gate bears down on the downstream wear ring, while the elastomer provides a drop-tight pressure-responsive seal around the port. This design provides an effective seal even if the gate and seat ring become scored or abraded during service. The DEMCO Series DB gate valve also is field repairable while the valve is in-line.



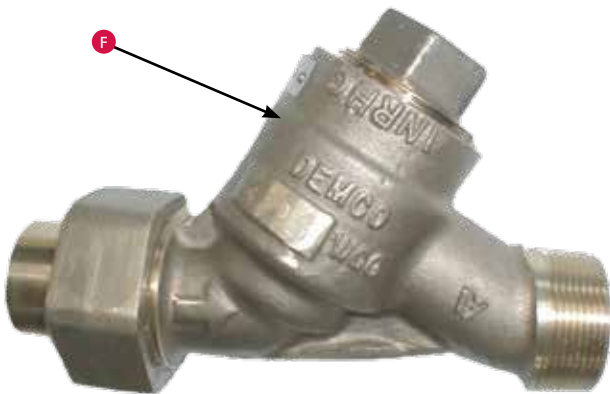
Flow Tees

ENHANCED OIL RECOVERY ACCESSORIES

Accessories

Ball check valves, flow tees, and strainers are available to complete requirements for an entire injection assembly.

- F. Ball Check Valves
- G. Flow Tees
- H. Strainers



Ball Check Valves



Strainers

Product Specifications

SERIES DM, DT, AND DB GATE VALVES GENERAL TECHNICAL INFORMATION

Valve Size Designations and Weld End Dimensional Information

- All references to pipe size in this catalog are the nominal size.
The actual OD and ID for various nominal sizes and schedules are tabulated below.
Weld end bodies are machined at each end to match the pipe OD and ID.

Nominal Size			ID			
in.	(mm)	OD	Sch 40	Sch 80	Sch 160	XXH
1-1/2	(40)	1.900	1.610	1.500	-	-
2	(50)	2.375	2.067	1.939	1.687	1.503
2-1/2	(65)	2.875	2.469	2.323	2.125	1.771
3	(80)	3.500	3.068	2.900	2.624	2.300
4	(100)	4.500	4.026	3.826	3.438	3.152
5	(125)	5.563	-	4.813	4.313	4.063
6	(150)	6.625	6.065	5.761	5.187	4.897

- Reduced port valve size descriptions are designated by two numbers.
The first number is the nominal size of the end connection.
The second number is the ID of the valve seat (dimension "C" in the tables).

PRESSURE RATINGS

DEMCO gate valves are designed for the maximum working pressures and test pressures tabulated below.

ASME Class 400	ASME Class 600	ASME Class 900	ASME Class 1500	1000	2000	3000	5000	7500
				WP	WP	WP	WP	WP
990 WP	1480 WP	2220 WP	3705 WP	1000 WP	2000 WP	3000 WP	5000 WP	7500 WP
1500 Test	2225 Test	3350 Test	5575 Test	2000 Test	4000 Test	6000 Test	7500 Test	11,250 Test

Gate valve rating must be selected to match the piping system in which the valve will be installed. Tabulated below are working pressures at 100° F (38° C) for ASTM A106 Grade B and AISI 4130 60K minimum yield pipe in sizes corresponding to DEMCO gate valves.

Size		ASTM A106 Grade B				4130 60k Min. Yield
in.	(mm)	Sch 40	Sch 80	Sch 160	XXH	XXH
1-1/2	(40)	1340	2430	-	-	-
2	(50)	1210	2220	4300	5970	10,234
2-1/2	(65)	1620	2590	3950	6590	-
3	(80)	1460	2370	3930	5880	10,080
4	(100)	1300	2130	3830	5150	8826
5	(125)	-	1970	3730	4650	7971
6	(150)	1110	1970	3650	4724	8098
8	(200)	1030	1790	-	-	-

Quality, Inspections and Testing

- Cameron's quality system is based on ISO 9000 and API Q1 requirements and is ISO 9001:2008 certified. Cameron's Quality department monitors all phases of valve production, from material receipt to final inspection, including a liaison with third-party inspectors and certifying authorities.

All DEMCO gate valves are hydrostatically tested; stem seal, body and seat are inspected for zero leakage under pressure before being released for shipment. Hydrotest specifications are based upon API 6A latest edition testing requirements; DEMCO Series DM 7500 group 2 and 3 valves undergo additional test cycles, including low-pressure seat tests prior to being released for shipment.

Certifications

- DEMCO DM 5000 Gate Valves 2" to 5" are available with ABS Type approval upon request.
- DEMCO DM 7500 Gate Valves 2" to 5" are available with ABS or DNV Type approval upon request.

Seat Seal Options

- **Buna-N (Nitrile)**

Is excellent for petroleum oil and gases, fuel oils, and alcohols from -10° F to 200° F (-23° C to 93° C).

- **FKM**

Highly resistant to mineral acids and hydrocarbons and resists moderate concentrations of H₂S. Serviceable from -10° F to 400° F (-23° C to 204° C). (Not suitable for steam.)

- **HNBR**

Formulated for use with synthetic and oil-based drilling mud service from -20° F to 250° F (-29° C to 121° C).

Coatings – DM Gate Valves Only

- **DEMCO 12**

A baked-on phenolic epoxy, tougher and more abrasion resistant. Excellent for service in caustics and saltwater up to 200° F (93° C).

- **ENDURO-BOND™**

An engineered dry powder coating process for metal surfaces that provides a protective barrier against corrosion and abrasive wear. Coating thickness is from 1 to 4 mil; is superior to plastics, epoxies and ceramics; and has a high heat resistance to 800° F (427° C).

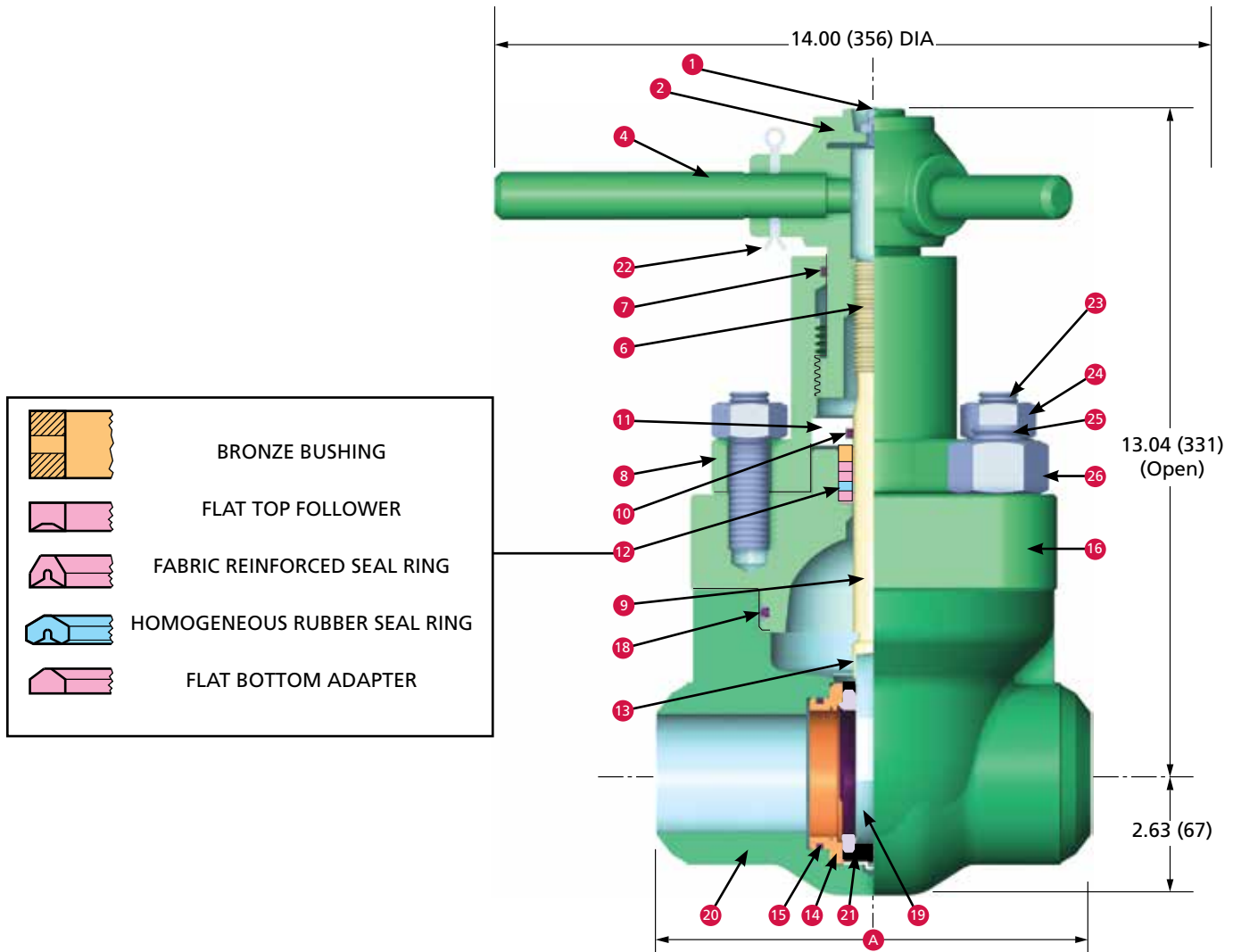
Ordering Information

- Give size, pressure class, and end connection.
- Specify pressure class of flanged ends, raised face (RF), or ring type joint (RTJ).
- For threaded ends, provide type of pipe:
TBG (non-upset tubing) LCSG (long casing thread)
UPTBG (external upset tubing) CSG (short casing thread)
- For weld ends, give schedule of mating pipe.
- For applications in high-pressure gas above 3000 psi or involving concentrations of H₂S or CO₂, consult Cameron for recommendations.

Dimensions and Materials/Parts List

SERIES DM 7500 GATE VALVES – 7500 PSI WP

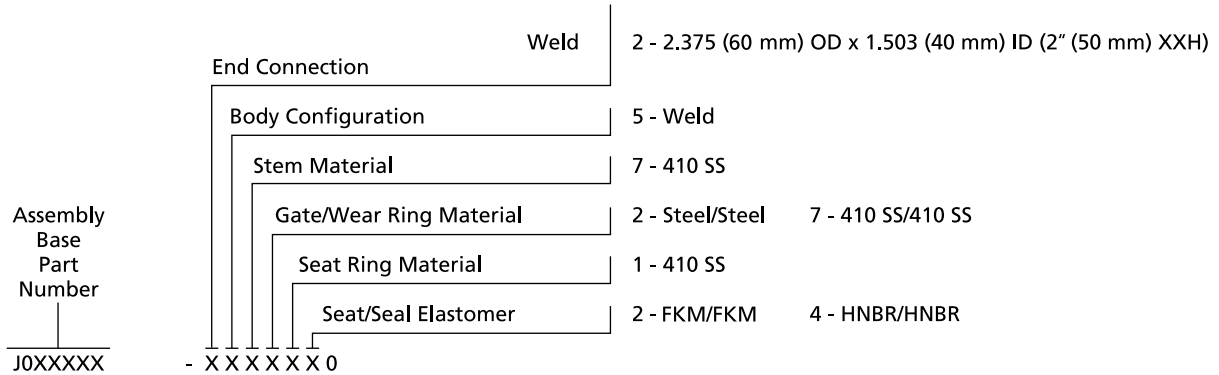
2" (50 mm) XXH with 1-1/2" Bore for General Service Conditions



Dimensional Data and Weights

Dimension	Valve Size: 2" (50 mm) RP 7500 WP
A Weld End	9.00 (229)
Valve Seat ID	1.50 (38)
Number of Handle Turns from Open to Closed	7.00
Weight lb (kg)	
Weld End	76 (34)

ASSEMBLY PART NUMBER



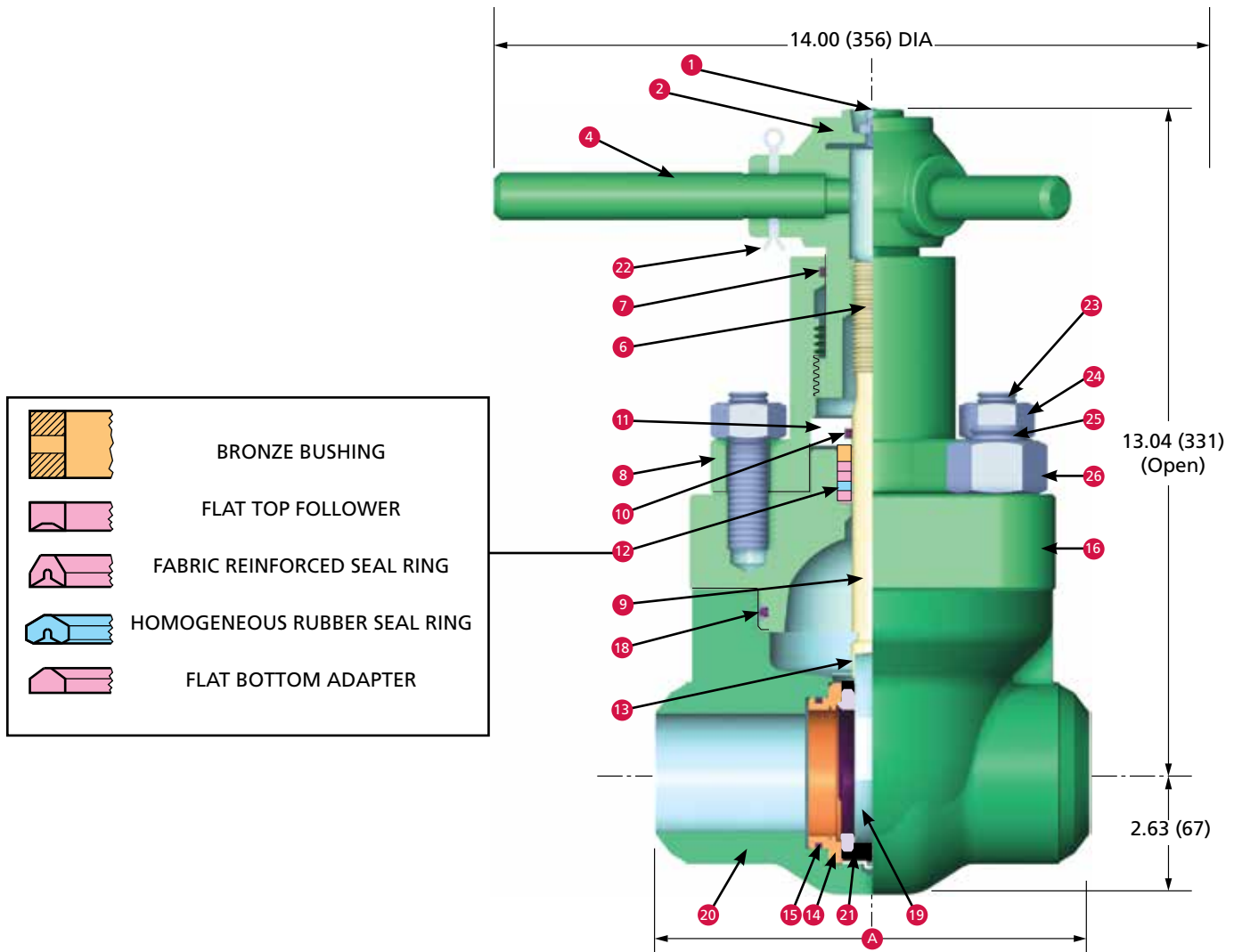
- Group 1** Basic valve. Hydrostatic shell test: 11,250 psi for three minutes. Hydrostatic seat test: 7500 psi for three minutes, each side. Material traceability on body and bonnet.
- Group 2** Same as Group 1, except: Hydrostatic shell test: 11,250 psi for three minutes, drop to 0 psi, then 11,250 psi for 15 minutes. Test is charted. Hydrostatic seat test: 7500 psi for three minutes, drop to 0 psi, 7500 for 15 minutes, drop to 0 psi, then 300 psi for five minutes, each side. Test is charted. Material traceability on body, bonnet, stem, and bolting. Impact tests at or below -50° F (-46° C) on body, bonnet, stem and bolting. Surface NDE on body, bonnet and stem.
- Group 3** Same as Group 2, plus volumetric NDE on body and bonnet.

Parts List

Key No.	Qty.	Description	Valve Size: 2" (50 mm) FP			
			Group 1	Group 2	Group 3	
		Assembly Base Number	Weld End	J025196	J025197	
1	1	Lube Fitting	Steel	J005195		
2	1	Handle	Ductile Iron ASTM A536 Grade 65-45-12	2139712-01		
4	1	Lock Handle	AISI C-1213	J001891		
■	6	Stem Screw	AISI C-1213	J001913		
■	7	Housing Seal	Buna-N	J005526-224		
8	1	Screw Housing	ASTM A350 Grade LF2 Class 1	J024982		
■	9	Stem	410 SS	J024983-107		
■	10	Secondary Seal	HNBR	2712425-13		
			FKM	J005531-210		
11	1	Packing Retainer	AISI C-1213 17-4 PH SS	J001940	-	
				-	J021432	
■	12	Stem Seal Assembly (With Bronze Bushing – ASTM B505 Alloy 93200)	HNBR FKM	J023231-008 J023231-006		
■●	13	Gate Clip	AISI 302 SS	M450480		
■●	14	Body Wear Ring	For Steel Gate, AISI 4140 w/QPQ Nitride Coating For SS Gate, AISI 410 Stainless Steel	2269414-01		
■●	15	Wear Ring Seal	HNBR	Consult Cameron		Consult Cameron for Part Numbers
			FKM	2712425-18		
16	1	Bonnet	ASTM A487 Grade 4 Class D	J024985-030	2140428-01	
■●	18	Bonnet Seal	HNBR	2712425-60		
			FKM	J005521-342		
■●	19	Gate	Steel AISI 4140 w/QPQ Nitride Coating 410 SS	2269412-01		
				Consult Cameron		
				Consult Cameron		
				Body Part Numbers		
■●	21	Seat	Rings: AISI 410 SS; Elastomer: HNBR Rings: AISI 410 SS; Elastomer: FKM	2269403-01		
				Consult Cameron		
22	1	Cotter Pin	Steel	J005420-18728		
23	2	Housing Stud	Materials	J002066	J021436	
				ASTM A193 Grade B7	ASTM A193 Grade L7	
24	2	Housing Stud Nut	Materials	2709000-08-01	J053252-034	
				ASTM A194 Grade 2H	ASTM A194 Grade 7	
25	4	Body Stud	Materials	J015432	J021442	
				ASTM A193 Grade B7	ASTM A193 Grade L7	
26	4	Body Stud Nut	Materials	2709000-10-01	J053252-038	
				ASTM A194 Grade 2H	ASTM A194 Grade 7	

- Major repair kit J025177-11574 – One each for one year of service.
- Minor repair kit J025177-01574.

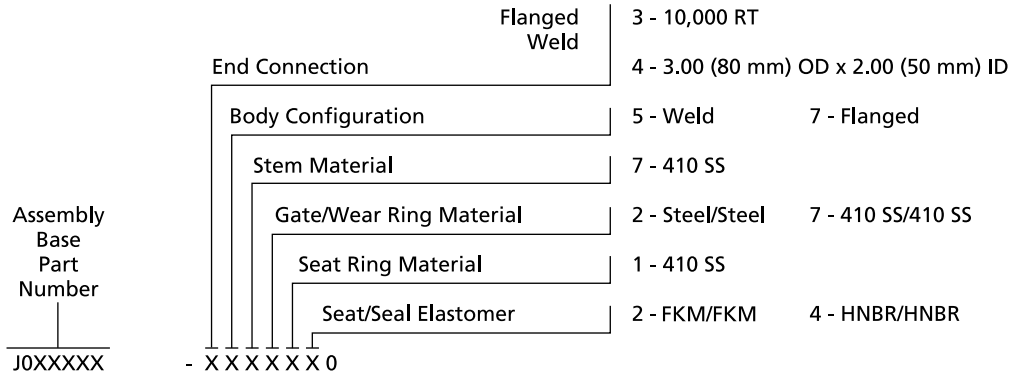
SERIES DM 7500 GATE VALVES – 7500 PSI WP
 2" (50 mm) Full Port for General Service Conditions



Dimensional Data and Weights

Dimension		Valve Size: 2" (50 mm) FP 7500 WP
A	Weld End	9.00 (229)
	Flanged End, API Length	20.50 (521)
Valve Seat ID		2.00 (51)
For Flanged Ends		
API Ring Number		BX-152
Flange ID		2.06 (52)
Flange OD		7.88 (200)
Flange Bolts (Qty., Size: in.)		8 – 3/4
Number of Handle Turns from Open to Closed		8.60
Weight lb (kg)		
Weld End		76 (34)
Flanged End		124 (56)

ASSEMBLY PART NUMBER



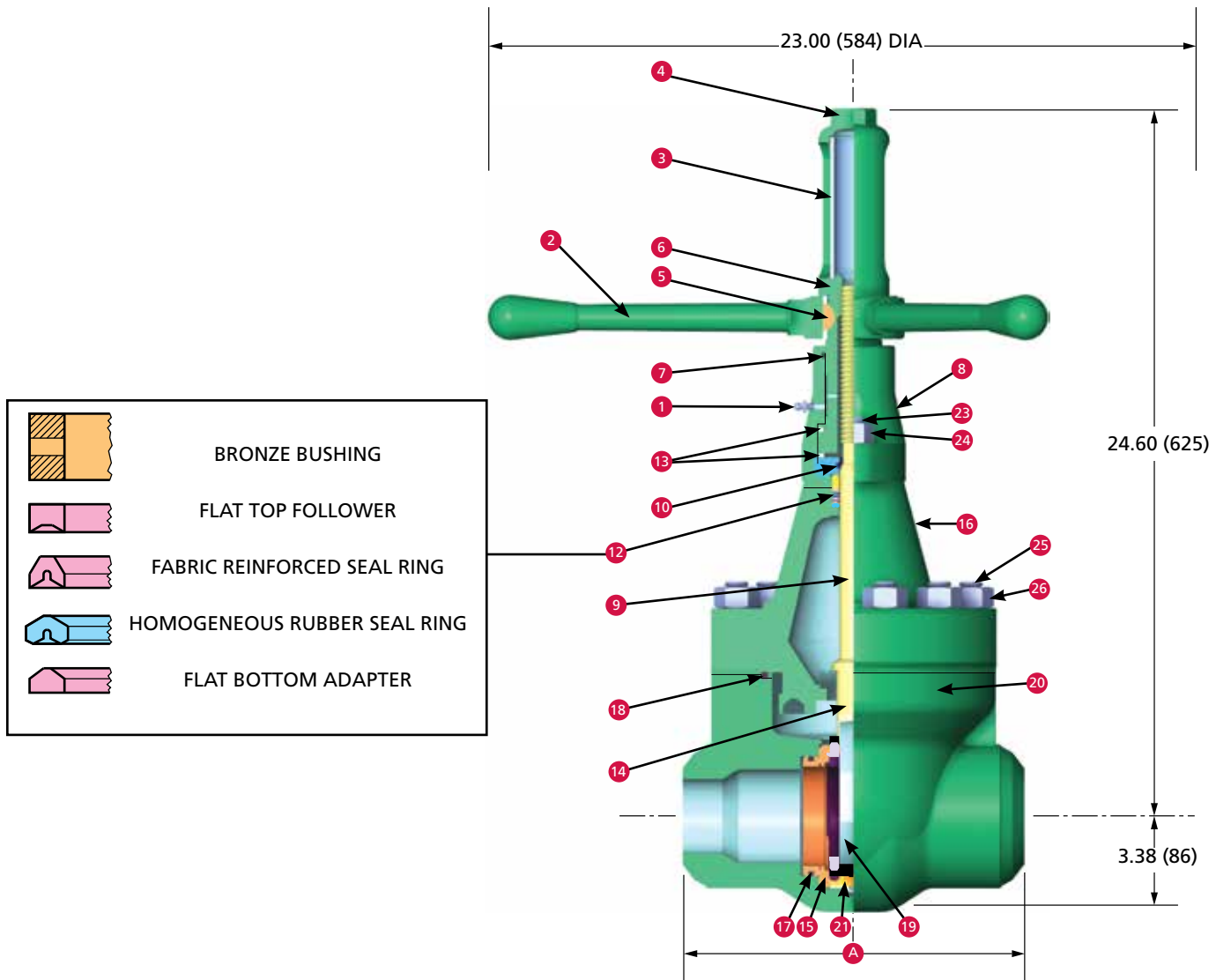
- Group 1** Basic valve. Hydrostatic shell test: 11,250 psi for three minutes. Hydrostatic seat test: 7500 psi for three minutes, each side. Material traceability on body and bonnet.
- Group 2** Same as Group 1, except: Hydrostatic shell test: 11,250 psi for three minutes, drop to 0 psi, then 11,250 psi for 15 minutes. Test is charted. Hydrostatic seat test: 7500 psi for three minutes, drop to 0 psi, 7500 for 15 minutes, drop to 0 psi, then 300 psi for five minutes, each side. Test is charted. Material traceability on body, bonnet, stem, and bolting. Impact tests at or below -50° F (-46° C) on body, bonnet, stem and bolting. Surface NDE on body, bonnet and stem.
- Group 3** Same as Group 2, plus volumetric NDE on body and bonnet.

Parts List

Key No.	Qty.	Description	Valve Size: 2" (50 mm) FP		
			Group 1	Group 2	Group 3
		Assembly Base Number	Weld End J024993	J025077	J025078
			Flanged End, API Length J025130	J025208	J025131
1	1	Lube Fitting	Steel	J005195	
2	1	Handle	Ductile Iron ASTM A536 Grade 65-45-12	2139712-01	
4	1	Lock Handle	AISI C-1213	J001891	
■	6	Stem Screw	AISI C-1213	J001913	
■	7	Housing Seal	Buna-N	J005526-224	
8	1	Screw Housing	ASTM A350 Grade LF2 Class 1	J024982	
■	9	Stem	410 SS	J024983-107	
■	10	Secondary Seal	HNBR	2712425-13	
			FKM	J005531-210	
11	1	Packing Retainer	AISI C-1213	J001940	-
			17-4 PH SS	-	J021432
■	12	Stem Seal Assembly (With Bronze Bushing – ASTM B505 Alloy 93200)	HNBR	J023231-008	
			FKM	J023231-006	
■	13	Gate Clip	AISI 302 SS	M450480	
■	14	Body Wear Ring	For Steel Gate, AISI 4140 w/QPQ Nitride Coating	M452267	
			For SS Gate, AISI 410 Stainless Steel	2139647-02	
■	15	Wear Ring Seal	HNBR	2712425-03	
			FKM	J005521-229	
16	1	Bonnet	ASTM A487 Grade 4 Class D	J024985-030	2140428-01
■	18	Bonnet Seal	HNBR	2712425-60	2140341-01
			FKM	J005521-342	
■	19	Gate	Steel AISI 4140 w/QPQ Nitride Coating	2171111-01	
			410 SS	2139624-02	
20	1	Body Materials	ASTM A487 Grade 4 Class D	Consult Cameron for Body Part Numbers	
■	21	Seat	410 SS/HNBR	2139742-01	
			410 SS/FKM	Rings: AISI 410 SS; Elastomer: HNBR	
			Steel	Rings: AISI 410 SS; Elastomer: FKM	
				J005420-18728	
22	1	Cotter Pin			J021436
23	2	Housing Stud	Materials	J002066	ASTM A193 Grade L7
			ASTM A193 Grade B7	2709000-08-01	J053252-034
24	2	Housing Stud Nut	Materials	ASTM A194 Grade 2H	ASTM A194 Grade 7
			J015432		J021442
25	4	Body Stud	Materials	ASTM A193 Grade B7	ASTM A193 Grade L7
			2709000-10-01		J053252-038
26	4	Body Stud Nut	Materials	ASTM A194 Grade 2H	ASTM A194 Grade 7

- Major repair kit J025177-10274 – One each for one year of service.
- Minor repair kit J025177-00274.

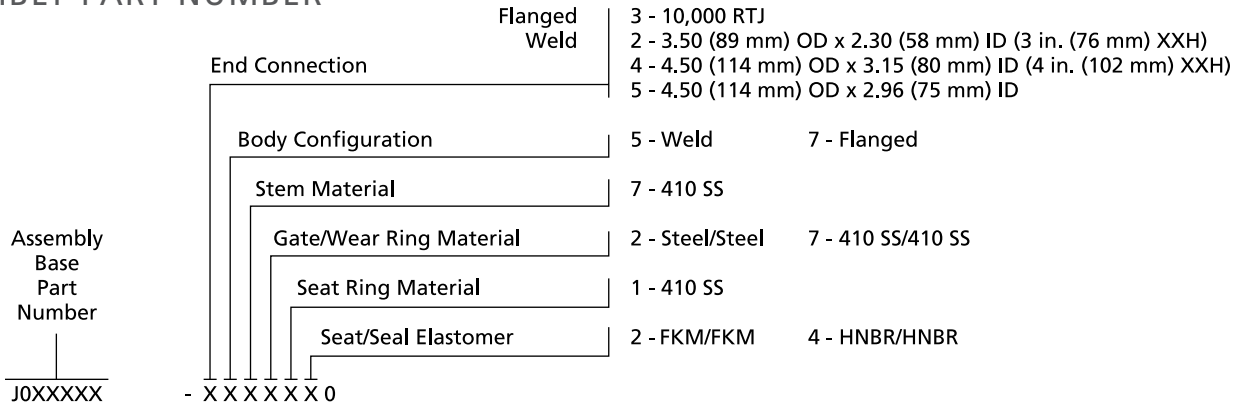
SERIES DM 7500 GATE VALVES – 7500 PSI WP
3" (80 mm) Full Port for General Service Condition



Dimensional Data and Weights

Dimension		Valve Size: 3" (80 mm) FP 7500 WP
A	Weld End	13.00 (330)
	Flanged End, API Length	24.38 (619)
Valve Seat ID		3.00 (76)
For Flanged Ends		
	API Ring Number	BX-154
	Flange ID	3.06 (78)
	Flange OD	10.62 (270)
	Flange Bolts (Qty., Size: in.)	8 – 1
Number of Handle Turns from Open to Closed		16.01
Weight lb (kg)		
	Weld End	256 (116)
	Flanged End	372 (169)

ASSEMBLY PART NUMBER



- Group 1** Basic valve. Hydrostatic shell test: 11,250 psi for three minutes. Hydrostatic seat test: 7500 psi for three minutes, each side. Material traceability on body and bonnet.
- Group 2** Same as Group 1, except: Hydrostatic shell test: 11,250 psi for three minutes, drop to 0 psi, then 11,250 psi for 15 minutes. Test is charted. Hydrostatic seat test: 7500 psi for three minutes, drop to 0 psi, 7500 for 15 minutes, drop to 0 psi, then 300 psi for five minutes, each side. Test is charted. Material traceability on body, bonnet, stem and bolting. Impact tests at or below -50° F (-46° C) on body, bonnet, stem, and bolting. Surface NDE on body, bonnet and stem.
- Group 3** Same as Group 2, plus volumetric NDE on body and bonnet.

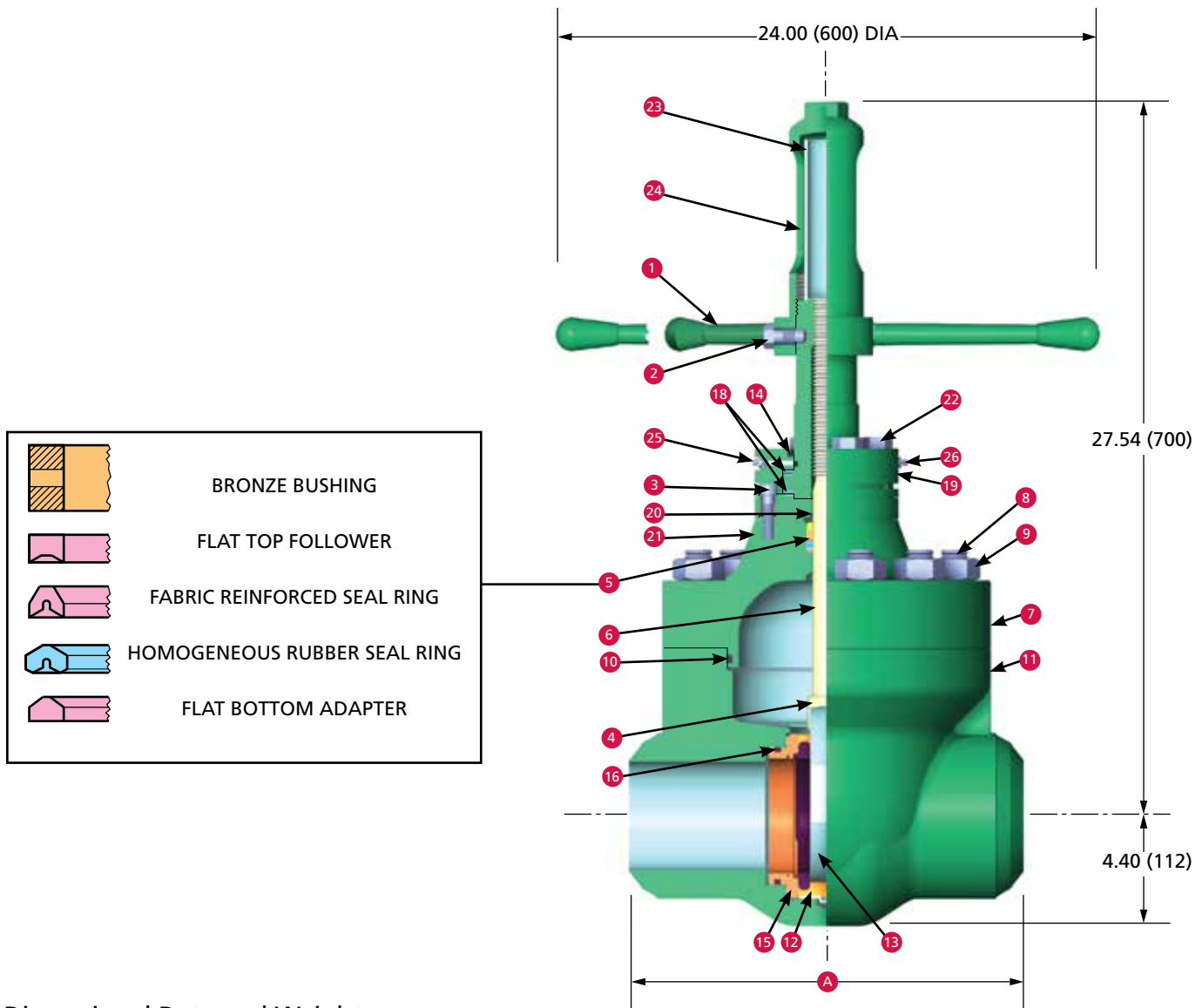
Parts List

Key No.	Qty.	Description	Valve Size: 3" (80 mm) FP		
			Group 1	Group 2	Group 3
		Assembly Base Number	J025051	J025079	J025080
1	1	Lube Fitting		J005195	
2	1	Handle		2139481-01	
3	1	Stem Tube		J007459	
4	1	Stem Cap		J007411	
5	1	Key		J005305-10016	
6	1	Stem Screw		J007416	
7	1	Housing Seal		J005526-226	
8	1	Housing	J007418		J021448-040
9	1	Stem	AISI C-1029 Normalized		ASTM A352 Grade LCC
10	1	Secondary Seal		J024951-107	
				2712425-01	
				J005531-214	
11	1	Packing Retainer	J007413		J021434
			AISI C-1213		17-4 PH SS
12	1	Stem Seal Assembly (With Bronze Bushing – SAE 660)		J001951-008	
				J001951-006	
13	2	Bearing		J007426	
14	1	Gate Clip		M450505	
15	2	Body Wear Ring		M452571	
				AISI 4140 w/QPQ Nitride Coating	
				2139648-02	
				AISI 410 Stainless Steel	
16	1	Bonnet	J017289-029	2140370-01	2140370-02
17	2	Wear Ring Seal		2712783-03	
				J005521-340	
18	1	Bonnet Seal		2712787-07	
				J005521-361	
19	1	Gate	AISI 4140 w/QPQ Nitride Coating	2171112-01	
			410 SS	2139628-02	
20	1	Body Materials		Consult Cameron for Body Part Numbers	
				2139744-01	
21	1	Seat		Rings: AISI 410 SS; Elastomer: HNBR	
				Rings: AISI 410 SS; Elastomer: FKM	
23	2	Housing Stud	J002072		J021441
			ASTM A193 Grade B7		ASTM A193 Grade L7
24	2	Housing Stud Nut	2709000-09-01		J053252-036
			ASTM A194 Grade 2H		ASTM A194 Grade 7
			J015432		J021442
25	12	Body Stud	ASTM A193 Grade B7		ASTM A193 Grade L7
			2709000-10-01		J053252-038
26	12	Body Stud Nut	ASTM A194 Grade 2H		ASTM A194 Grade 7

- Major repair kit J025177-10374 – One each for one year of service.
- Minor repair kit J025177-00374.

SERIES DM 7500 GATE VALVES – 7500 PSI WP

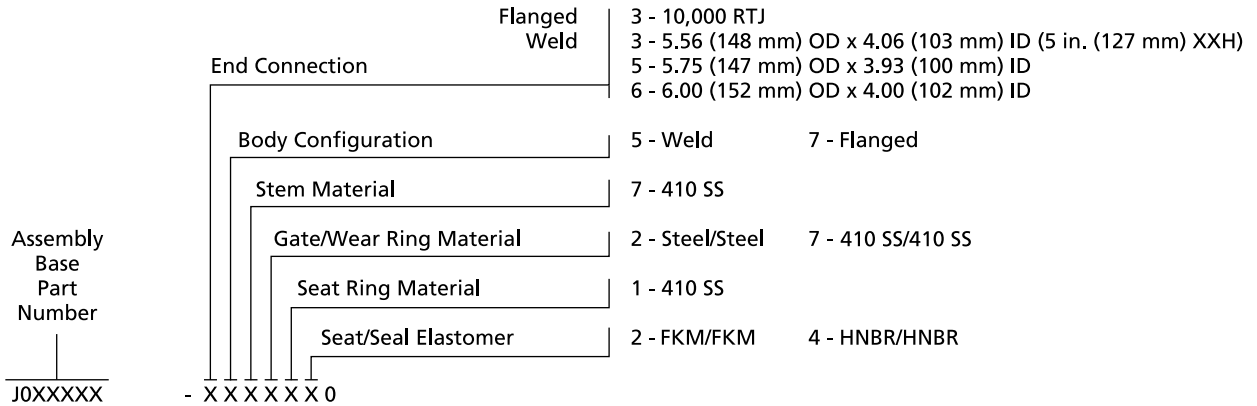
4" (100 mm) Full Port for General Service Conditions



Dimensional Data and Weights

Dimension		Valve Size: 4" (100 mm) FP 7500 WP
A	Weld End	16.00 (406)
	Flanged End	26.38 (670)
Valve Seat ID		4.00 (102)
For Flanged Ends		
API Ring Number		BX-155
Flange ID		4.06 (103)
Flange OD		12.44 (316)
Flange Bolts (Qty., Size: in.)		8 – 1-1/8
Number of Handle Turns from Open to Closed		21.36
Weight lb (kg)		
Weld End		310 (141)
Flanged End		475 (215)

ASSEMBLY PART NUMBER



- Group 1** Basic valve. Hydrostatic shell test: 11,250 psi for three minutes. Hydrostatic seat test: 7500 psi for three minutes, each side. Material traceability on body and bonnet.
- Group 2** Same as Group 1, except: Hydrostatic shell test: 11,250 psi for three minutes, drop to 0 psi, then 11,250 psi for 15 minutes. Test is charted. Hydrostatic seat test: 7500 psi for three minutes, drop to 0 psi, 7500 for 15 minutes, drop to 0 psi, then 300 psi for five minutes, each side. Test is charted. Material traceability on body, bonnet, stem and bolting. Impact tests at or below -50° F (-46° C) on body, bonnet, stem and bolting. Surface NDE on body, bonnet and stem.
- Group 3** Same as Group 2, plus volumetric NDE on body and bonnet.

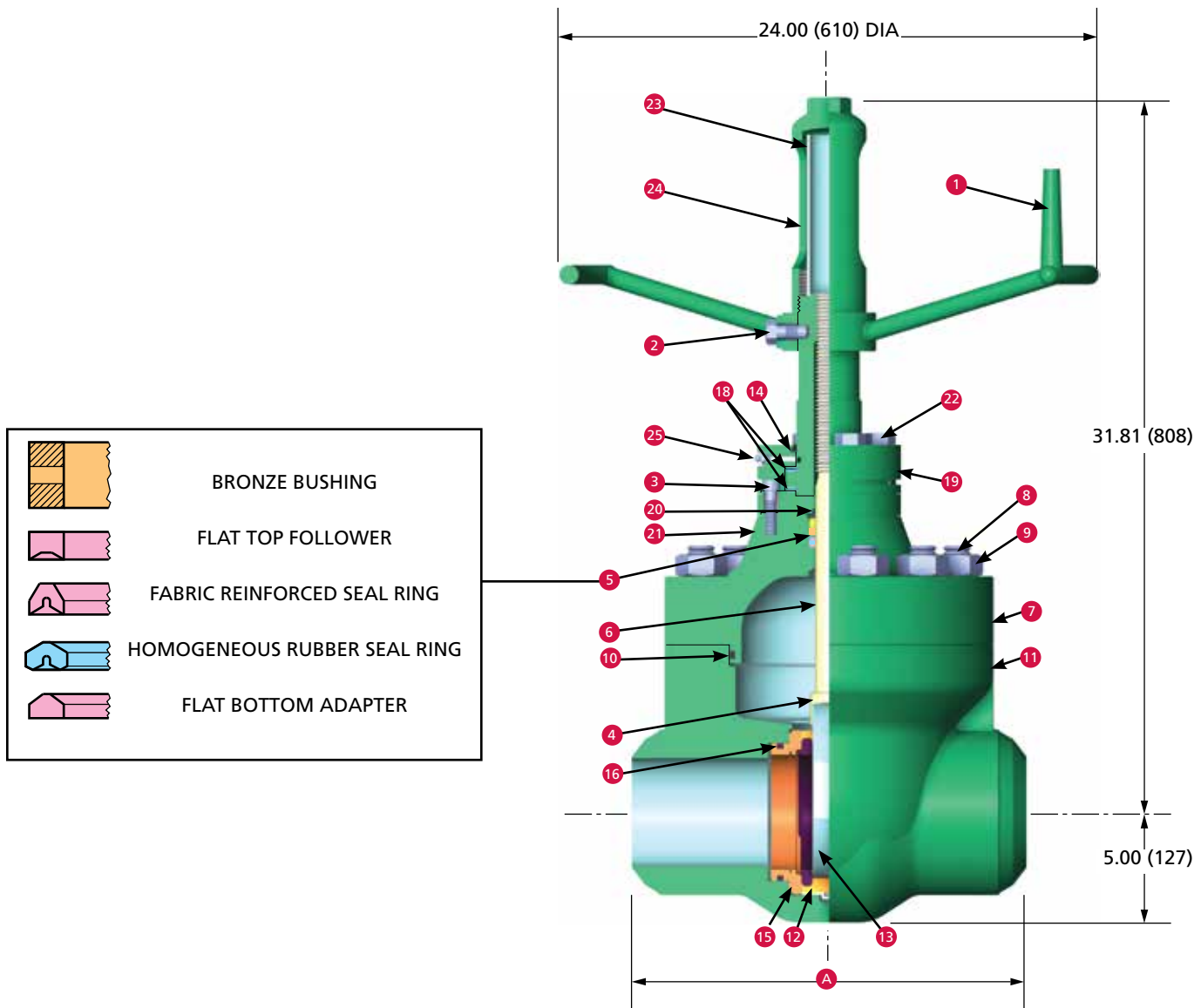
Parts List

Key No.	Qty.	Description	Valve Size: 4" (100 mm) FP		
			Group 1	Group 2	Group 3
		Assembly Base Number	J025100	J025101	J025081
1	1	Handwheel		J015334	
2	1	Handwheel Screw		J014832	
3	4	Retainer Screw	J005665-32028		J005666-32028
			Alloy Steel		18-8 SS
■●	4	Gate Clip		M450505	
■	5	Stem Seal Assembly (With Bronze Bushing – ASTM B271 Alloy C95500)		J015853-008	
				J015853-006	
■	6	Stem		2140684-01	
7	1	Bonnet	2172523-01	2172523-02	2172523-03
8	10	Body Stud	2171976-11-01		2171978-11-01
			ASTM A193 Grade B7		ASTM A193 Grade L7
9	10	Body Stud Nut	2709000-11-01		J053252-140
			ASTM A194 Grade 2H		ASTM A194 Grade 7
■●	10	Bonnet Seal		2712426-11	
				J005521-364	
11	1	Body Materials		Consult Cameron for Body Part Numbers	
■●	12	Seat		2139746-01	
				Rings: AISI 410 Stainless Steel; Elastomers: HNBR	
■●	13	Gate – Steel/QPQ		2171267-01	
				2139637-02	
■	14	Housing Seal		J005526-228	
■●	15	Body Wear Ring		M452290	
				AISI 4140 w/QPQ Nitride Coating	
				2139649-02	
■●	16	Wear Ring Seal		AISI 410 Stainless Steel	
				2712787-04	
■	18	Stem Screw with Bearings		J005521-349	
				J0023888	
				Stem Screw: AISI C-1018	
19	1	Housing		Bearings: Hardened Steel Needle Thrust Bearings	
■	1	Secondary Seal		J015332	
				2726268-01	
21	1	Packing Retainer	J015330		2172425-02
			AISI C-1018		AISI 4130
22	4	Housing Screw		702500-14-00-34	
23	1	Stem Tube		J012852	
24	1	Stem Cap		J015855	
25	1	Lube Fitting		J005195	
26	1	Relief Fitting		J051971	

- Major repair kit J025177-10474 – One each for one year of service.
- Minor repair kit J025177-00474.

SERIES DM 7500 GATE VALVES – 7500 PSI WP

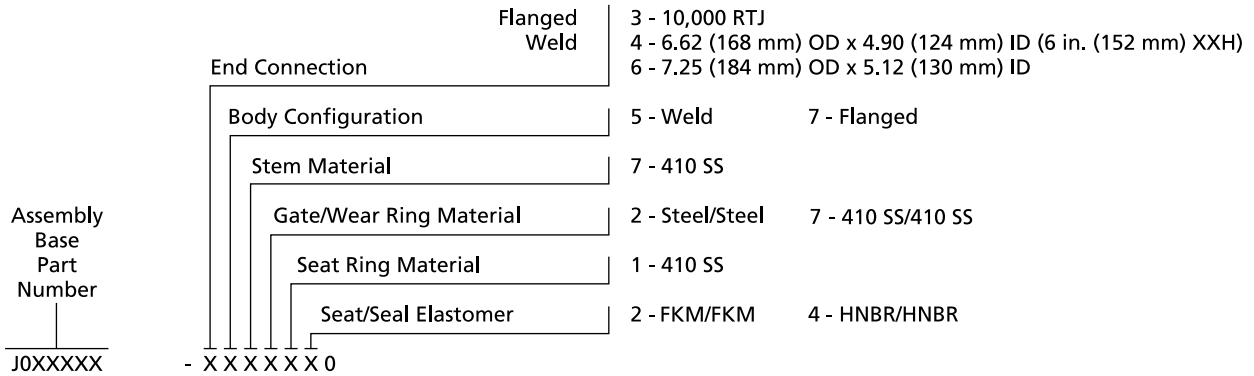
5" (132 mm) Full Port for General Service Conditions



Dimensional Data and Weights

Dimension		Valve Size: 5" (132 mm) FP 7500 WP
A	Weld End	17.88 (454)
	Flanged End	29.00 (737)
Valve Seat ID		5.19 (132)
For Flanged Ends		
API Ring Number		BX-169
Flange ID		5.12 (130)
Flange OD		14.06 (357)
Flange Bolts (Qty., Size: in.)		12 – 1-1/8
Number of Handle Turns from Open to Closed		27.67
Weight lb (kg)		
Weld End		506 (230)
Flanged End		761 (345)

ASSEMBLY PART NUMBER



- Group 1** Basic valve. Hydrostatic shell test: 11,250 psi for three minutes. Hydrostatic seat test: 7500 psi for three minutes, each side. Material traceability on body and bonnet.
- Group 2** Same as Group 1, except: Hydrostatic shell test: 11,250 psi for three minutes, drop to 0 psi, then 11,250 psi for 15 minutes. Test is charted. Hydrostatic seat test: 7500 psi for three minutes, drop to 0 psi, 7500 for 15 minutes, drop to 0 psi, then 300 psi for five minutes, each side. Test is charted. Material traceability on body, bonnet, stem and bolting. Impact tests at or below -50° F (-46° C) on body, bonnet, stem and bolting. Surface NDE on body, bonnet and stem.
- Group 3** Same as Group 2, plus volumetric NDE on body and bonnet.

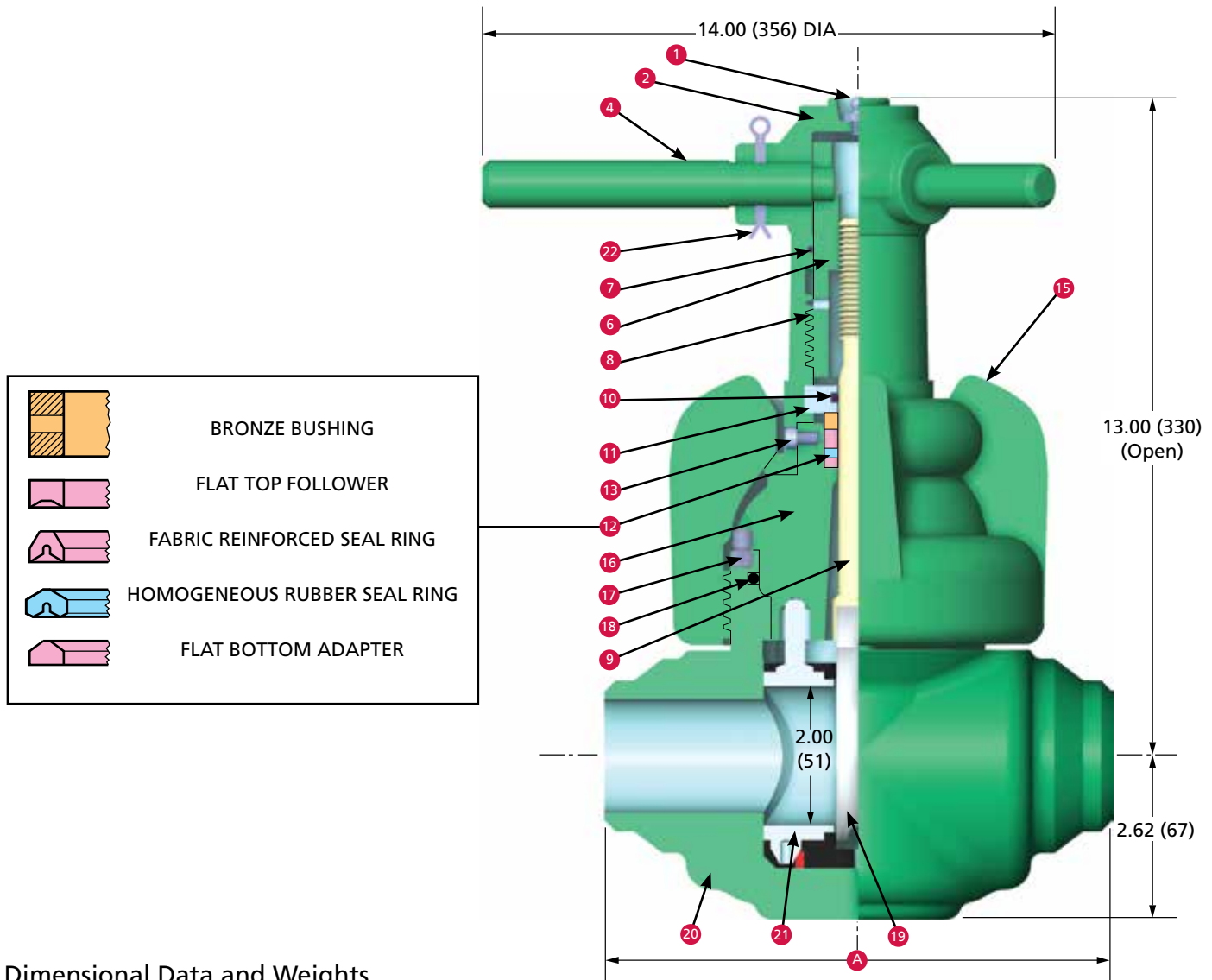
Parts List

Key No.	Qty.	Description	Valve Size: 5-3/16" (132 mm) FP		
			Group 1	Group 2	Group 3
		Assembly Base Number	J024994	J025083	J025084
1	1	Handwheel		J016986	
2	1	Handwheel Screw		J016987	
3	4	Retainer Screw	J005665-32028		J005666-32028
		Materials	Alloy Steel		18-8 SS
■●	4	Gate Clip		M451649	
■	5	Stem Seal Assembly (With Bronze Bushing – ASTM B271 Alloy C95500)		J016995-008	
		Materials		J016995-006	
■	6	Stem		J024943-107	
7	1	Bonnet	ASTM A487 Grade 4 Class D	J024956-030	J024956-052
8	12	Body Stud		J024956-051	
		Materials	ASTM A193 Grade B7		ASTM A193 Grade L7
9	12	Body Stud Nut		2709000-12-01	J053252-142
		Materials	ASTM A194 Grade 2H		ASTM A194 Grade 7
■●	10	Bonnet Seal		HNBR	
		Materials		FKM	
11	1	Body Materials	ASTM A487 Grade 4 Class D		
■●	12	Seat		Consult Cameron for Body Part Numbers	
		Materials	410 SS/HNBR	2139748-01	
		Materials	410 SS/FKM		Rings: AISI 410 Stainless Steel; Elastomers: HNBR
■●	13	Gate – Steel/QPQ	AISI 4140 w/QPQ Nitride Coating		
		Materials	410 SS		Rings: AISI 410 Stainless Steel; Elastomers: FKM
■	14	Housing Seal		Urethane	
■●	15	Body Wear Ring		For Steel Gate	
		Materials	For Stainless Steel Gate		
		Materials		AISI 4140 w/QPQ Nitride Coating	
■●	16	Wear Ring Seal		HNBR	
		Materials		FKM	
■	18	Stem Screw with Bearings		J005521-435	
		Materials		J023848	
		Materials		Stem Screw: AISI C-1018	
19	1	Housing			Bearings: Hardened Steel Needle Thrust Bearings
■	20	Secondary Seal		HNBR	
		Materials		FKM	
21	1	Packing Retainer			
		Materials	J018191		2171930-01
		Materials	AISI C-1018		AISI 4130
22	4	Housing Screw			
23	1	Stem Tube		Steel SAE Grade 5	
24	1	Stem Cap		Clear Acrylic	
25	1	Lube Fitting		Ductile Iron	
		Materials		Steel	

- Major repair kit J025177-10574 – One each for one year of service.
- Minor repair kit J025177-00574.

SERIES DM GATE VALVES – 2000, 3000, AND 5000 PSI WP

2" (50 mm) Full Port and 2-1/2" (65 mm) Reduced Port for General Service Conditions

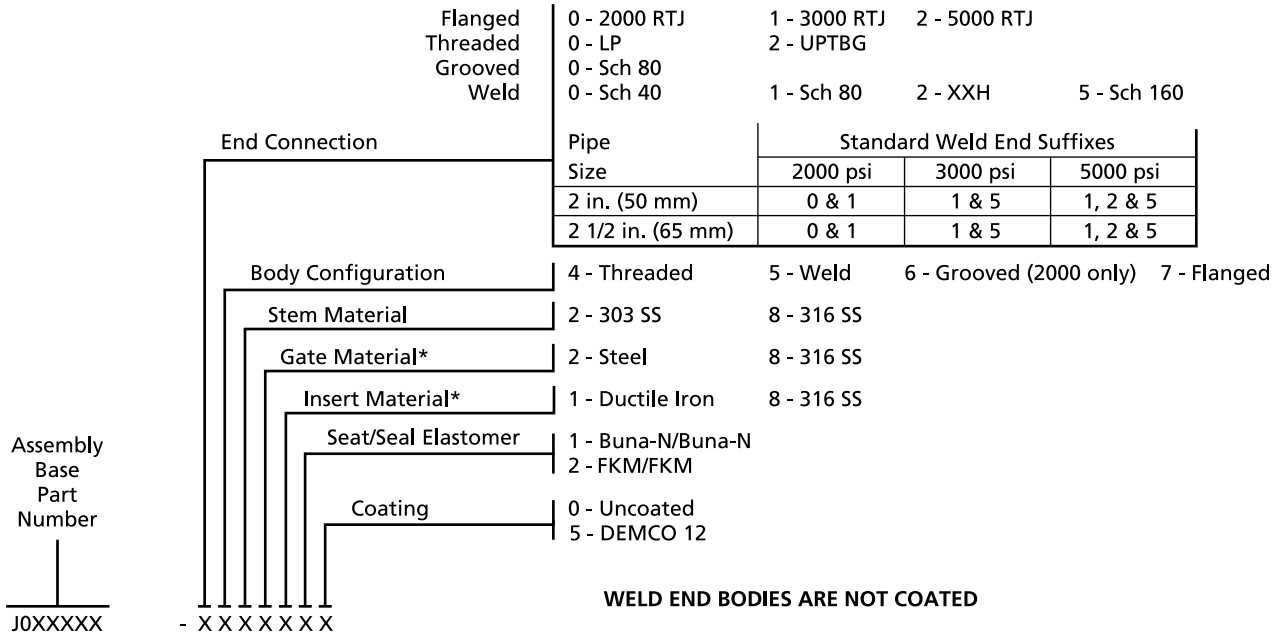


Dimensional Data and Weights

Dimension		Valve Size: 2" (50 mm) FP and 2-1/2" x 2" (65 mm x 50 mm) RP*					
		2000 WP – 4000 Test		3000 WP – 6000 Test		5000 WP – 7500 Test	
A	Threaded, Weld and Grooved	9.00 (229)	9.00 (229)	9.00 (229)	9.00 (229)	9.00 (229)	9.00 (229)
	Flanged – RTJ	11.62 (295)	-	11.62 (295)	-	12.12 (308)	-
	Flange OD	6.50 (165)	-	8.50 (216)	-	8.50 (216)	-
	Flange Bolts (Qty., Size: in.)	8 – 5/8	-	8 – 7/8	-	8 – 7/8	-
	Ring Number (RTJ)	R-23	-	R-24	-	R-24	-
Weight lb (kg)							
	Threaded, Weld and Grooved	56 (25)	56 (25)	58 (26)	58 (26)	58 (26)	58 (26)
	Flanged	70 (32)	70 (32)	100 (45)	100 (45)	110 (50)	110 (50)

* 2-1/2" x 2" (65 mm x 50 mm) RP only available in weld end.

ASSEMBLY PART NUMBER



Parts List

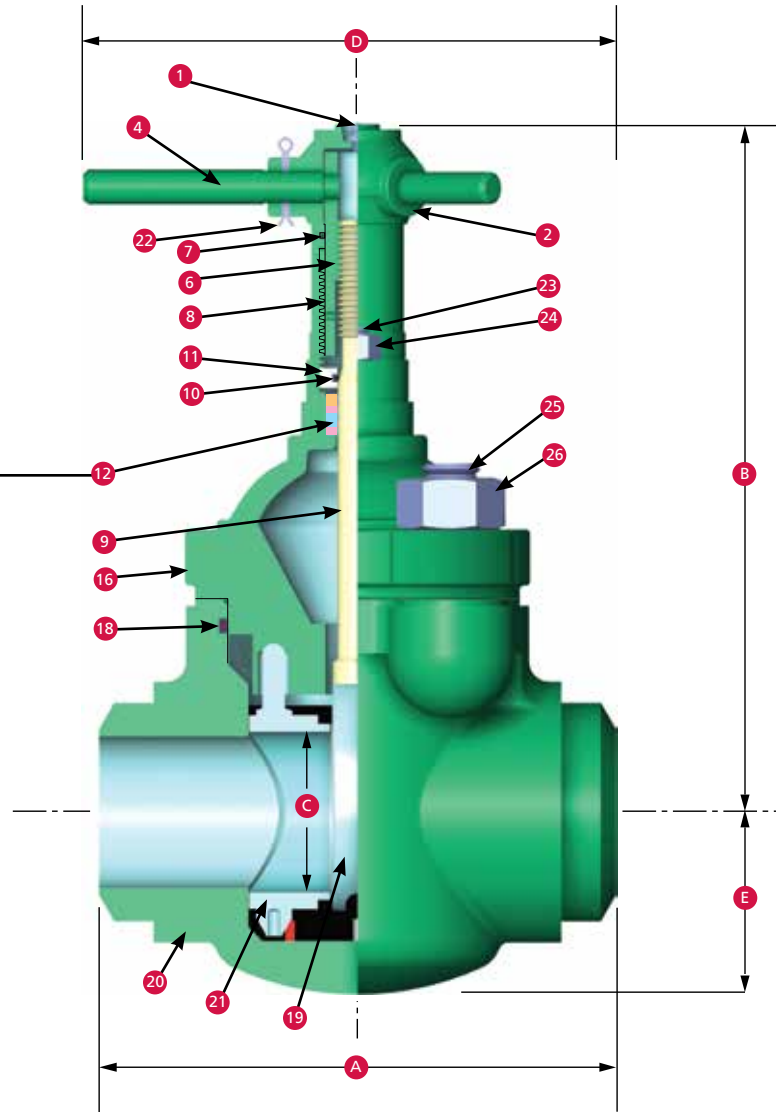
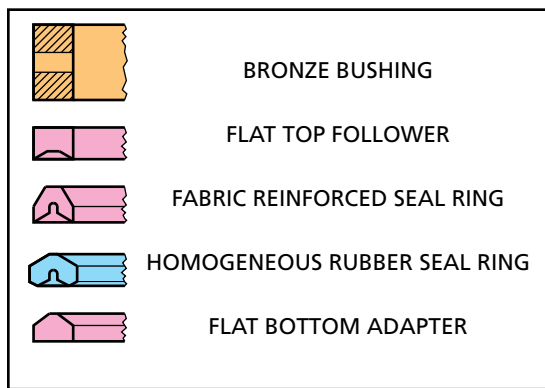
Key No.	Qty.	Description	Valve Size: 2" (50 mm) FP and 2-1/2" (65 mm) RP			
			2000 WP	3000 WP	5000 WP	
		Assembly Base Part Number	2" (50 mm) Full Port – Threaded	J001026	J001027	J001028
			– Weld	J001029	J001030	J001031
			– Grooved	J011920	-	-
			– Flanged	J001023	J001024	J001025
			2-1/2" (65 mm) Reduced Port – Weld	J001115	J001114	J001109
1	1	Lube Fitting	Steel	J005195	J005195	J005195
2	1	Handle	ASTM A536 Ductile Iron	2139712-01	2139712-01	2139712-01
4	1	Lock Handle	C-1213	J001891	J001891	J001891
6	1	Stem Screw	C-1213	J001913	J001913	J001913
7	1	Stem Screw Seal	Buna-N	J005526-224	J005526-224	J005526-224
8	1	Screw Housing	C-1018	J001848	J001848	J001848
9	1	Stem	303 SS -002, 316 SS -008	J001931-XXX	J001931-XXX	J001931-XXX
10	1	Secondary Seal	Buna-N	J005526-210	J005526-210	J005526-210
11	1	Retainer	C-1213	J001940	J001940	J001940
12	1	Stem Seal Assembly	Buna-N -001, FKM -006	J001949-XXX	J001949-XXX	J001949-XXX
13	1	Lock Screw	Steel	J005665-22004	J005665-22004	J005665-22004
15	1	Coupling	A216 Steel -020, A487 Steel -030	J001446-020	J001446-020	J001445-030
16	1	Bonnet	ASTM A105	J001237-XXX	J001237-XXX	J001237-XXX
			Coatings	Uncoated-020, Coated DEMCO 10-021, DEMCO 11-024, DEMCO 12-025		
17	1	Index Pin	Steel	J001981	J001981	J001981
18	1	Bonnet Seal	Buna-N	J005526-342	J005526-342	J005526-342
			FKM	J005531-342	J005531-342	J005531-342
19	1	Gate	Materials	J001887-XXX	J001887-XXX	J001887-XXX
				AISI 1045 Nickel Plated -002, Cast SS ASTM A351 Grade CF8M -008		
20	1	Body Materials	Threaded, Weld and Grooved – ASTM A105 Normalized 2000 Flanged – Fabricated from Weld Body and Commercial Flanges 3000 Flanged – ASTM A216 Grade WCB 5000 Flanged – ASTM A487 Grade 4A or 2B Coatings (Except Weld End Bodies): DEMCO 12	Consult Cameron for Body Part Numbers		
21	1	Seat Assembly	Materials	J001876-0XX	J001876-0XX	J001876-0XX
				Inserts: -01X Ductile Iron ASTM A395 or Steel AISI C1040 -08X 316 SS ASTM A351 Grade CF8M Annealed Elastomers: -0X1 Buna-N, -0X2 FKM		
22	1	Pin, Lock Handle	Steel	J005420-18728	J005420-18728	J005420-18728

- Major repair kit J025216-11221 – One each for one year of service.
- Minor repair kit J025216-01221.

SERIES DM GATE VALVES – 2000, 3000, AND 5000 PSI WP

2-1/2" (65 mm) and 3" (80 mm) Full Port

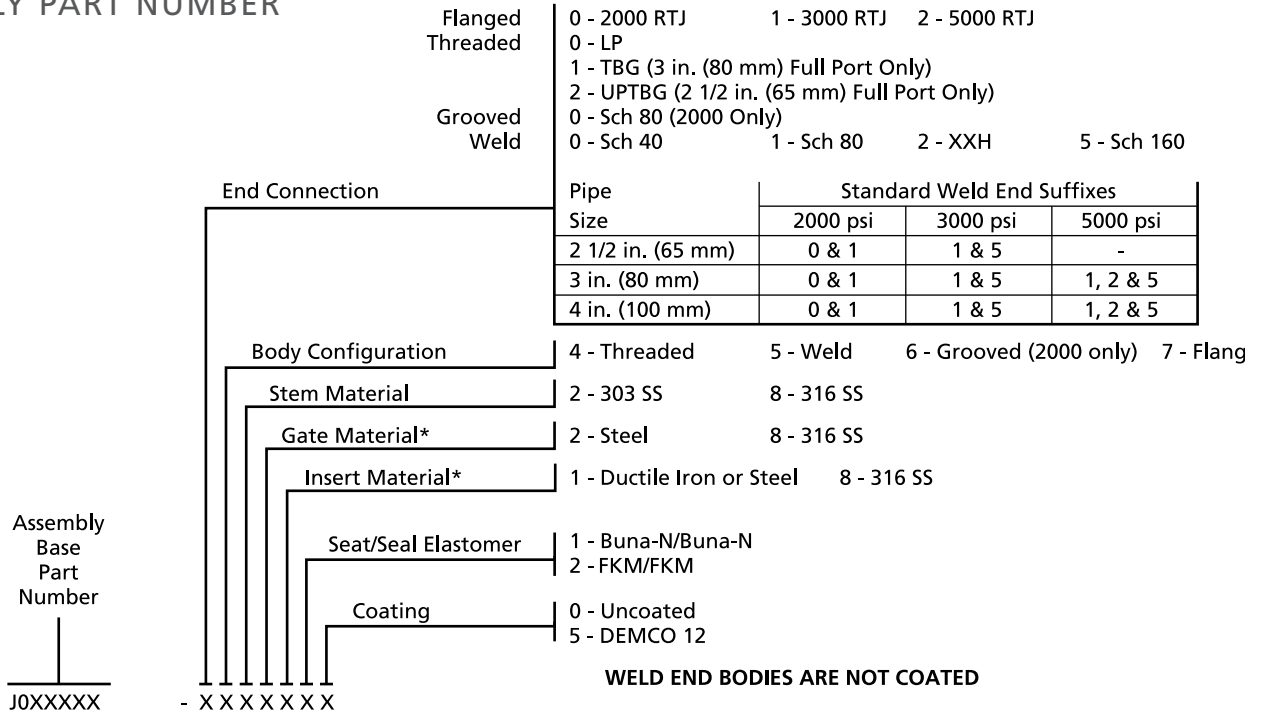
4" (100 mm) Reduced Port
for General Service Conditions



Dimensional Data and Weights

Dimension	Valve Size in. (mm)							
	FP 2-1/2 (65)		FP 3 (80)		RP 4 x 3 (100 x 80)	FP 3 (80)		RP 4 x 3 (100 x 80)
	2000 WP – 4000 Test		3000 WP – 6000 Test			5000 WP – 7500 Test		
A	Threaded, Weld and Grooved	9.75 (248)	11.00 (279)	9.75 (248)	11.00 (279)	11.00 (279)	11.00 (279)	11.00 (279)
	Flanged – RTJ	16.62 (422)	14.12 (359)	16.62 (422)	14.12 (359)	-	15.62 (397)	-
B	(Open)	17.00 (432)	18.00 (457)	17.00 (432)	18.00 (457)	18.00 (457)	18.00 (457)	18.00 (457)
C	(Seat Bore)	2.50 (64)	3.00 (76)	2.50 (64)	3.00 (76)	3.00 (76)	3.00 (76)	3.00 (76)
D		19.00 (483)	19.00 (483)	19.00 (483)	19.00 (483)	19.00 (483)	19.00 (483)	19.00 (483)
E	Threaded, Weld and Grooved	3.12 (79)	3.50 (89)	3.25 (83)	3.69 (94)	3.69 (94)	3.94 (100)	3.94 (100)
	Flanged – RTJ	3.19 (81)	3.50 (89)	3.19 (81)	3.69 (94)	-	3.94 (100)	-
	Flange OD	7.50 (191)	8.25 (210)	9.62 (244)	9.50 (241)	-	10.50 (267)	-
	Flange Bolts (Qty., Size: in.)	8-3/4	8-3/4	8-1	8-7/8	-	8 – 1-1/8	-
	Ring Number (RTJ)	R-26	R-31	R-27	R-31	-	R-35	-
Weight lb (kg)								
	Threaded, Weld and Grooved	74 (34)	95 (43)	87 (39)	113 (51)	113 (51)	140 (64)	140 (64)
	Flanged	141 (64)	131 (59)	170 (77)	175 (79)	-	241 (109)	-

ASSEMBLY PART NUMBER



*Consult Factory For Additional Trim Options.

Parts List

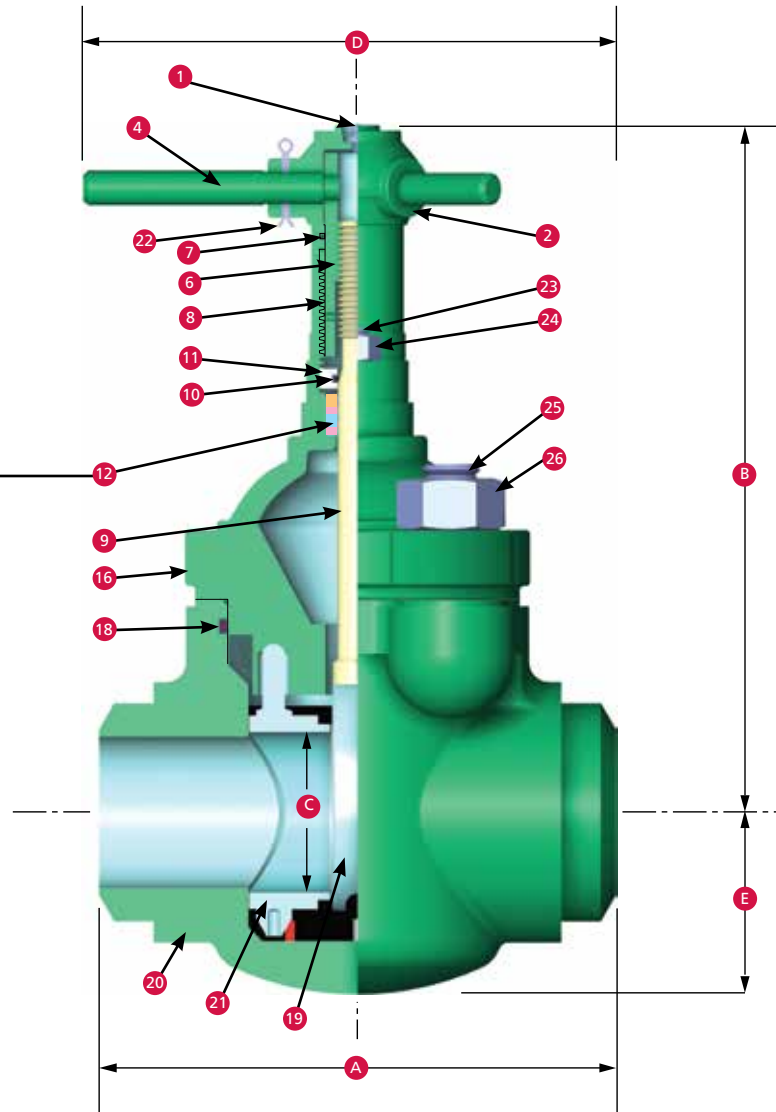
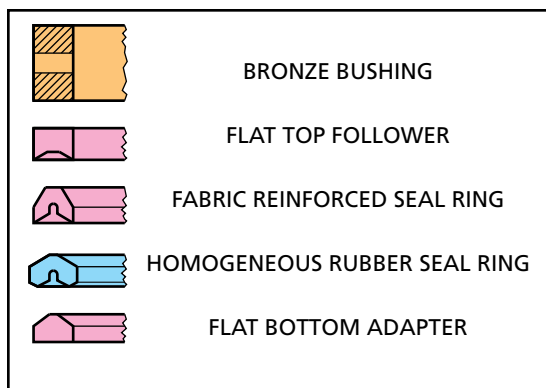
Key No.	Qty.	Description	Valve Size: 2-1/2" (65 mm) FP			Valve Size: 3" (80 mm) FP and 4" (100 mm) RP			
			2000 WP	3000 WP	5000 WP	2000 WP	3000 WP	5000 WP	
		Assembly Base Part Number	2-1/2" (65 mm) and 3" (80 mm) Full Port – Threaded	J001042	J001043	-	J001045	J001046	J001047
			– Weld	J001051	J001052	-	J001054	J001055	J001056
			– Grooved	J011921	-	-	J011922	-	-
			– Flanged	J001033	J001034	-	J001036	J001037	J001038
			4" (100 mm) Reduced Port – Weld	-	-	-	-	J001113	J001110
1	1	Lube Fitting	Steel	J005195	J005195	J005195	J005195	J005195	J005195
2	1	Hub Assembly	ASTM A536 Ductile Iron	2139713-01	2139713-01	2139713-01	2139713-01	2139713-01	2139713-01
4	1	Lock Handle	AISI C1213	J001892	J001892	J001892	J001892	J001892	J001892
6	1	Stem Screw	AISI C1213	J001914-002	J001914-002	J001914-002	J001914-003	J001914-003	J001914-003
7	1	Stem Screw Seal	Buna-N	J005526-226	J005526-226	J005526-226	J005526-226	J005526-226	J005526-226
8	1	Screw Housing	Carbon Steel	J001852	J001852	J001852	J001852	J001852	J001852
9	1	Stem	303 SS -002, 316 SS -008	J001932-XXX	J001932-XXX	J001932-XXX	J001932-XXX	J001932-XXX	J001932-XXX
10	1	Secondary Seal	Buna-N	J005526-212	J005526-212	J005526-212	J005526-212	J005526-212	J005526-212
11	1	Retainer	AISI C1213	J001941	J001941	J001941	J001941	J001941	J001941
12	1	Stem Seal Assembly	Buna-N -001, FKM -006	J001950-XXX	J001950-XXX	J001950-XXX	J001950-XXX	J001950-XXX	J001959-XXX
16	1	Bonnet	Cast Steel ASTM A487 4A or 2B Coatings	J001970-XXX	J001974-XXX	J001974-XXX	J001971-XXX	J001976-XXX	J001980-XXX
18	1	Bonnet Seal	Buna-N	J005526-427	J005526-427	J005526-427	J005526-431	J005526-433	J005526-433
19	1	Gate	FKM	J005531-427	J005531-427	J005531-427	J005531-431	J005531-433	J005531-433
20	1	Gate	Materials	J001868-00X	J001868-00X	J001868-00X	J001886-00X	J001886-00X	J001886-00X
				AISI 4140 Nickel Plated -002, Cast SS ASTM A351 Grade CF8M -008					
20	1	Body Materials	ASTM A487 Grade 4 Class A or Grade 2 Class B Coatings (Except Weld End Bodies): DEMCO 12	Consult Cameron for Body Part Numbers					
21	1	Seat Assembly	Materials	J001877-0XX	J001877-0XX	J001877-0XX	J001878-0XX	J001878-0XX	J001878-0XX
				Inserts: -001 Ductile Iron ASTM A395 or Steel AISI C1040 -008 316 SS ASTM A351 Grade CF8M Annealed Elastomers: -0X1 Buna-N, -0X2 FKM					
22	1	Pin, Lock Handle	Steel	J005420-18732	J005420-18732	J005420-18732	J005420-18732	J005420-18732	J005420-18732
23	2	Bonnet Stud	ASTM A193 Grade B7	J002066	J002066	J002066	J002066	J002066	J002066
24	2	Bonnet Stud Nut	ASTM A194 Grade 2H	2709000-08-01	2709000-08-01	2709000-08-01	2709000-08-01	2709000-08-01	2709000-08-01
25	4	Body Stud	ASTM A193 Grade B7	J002072	J002074	J002074	J002072	J002074	J002076
26	4	Body Stud Nut	ASTM A194 Grade 2H	2709000-09-01	2709000-10-01	2709000-10-01	2709000-09-01	2709000-10-01	2709000-13-01

- Major repair kit J025216-12221 – One each for one year of service.
- Minor repair kit J025216-02221.

SERIES DM GATE VALVES – 2000 AND 3000 PSI WP

4" (100 mm) Full Port

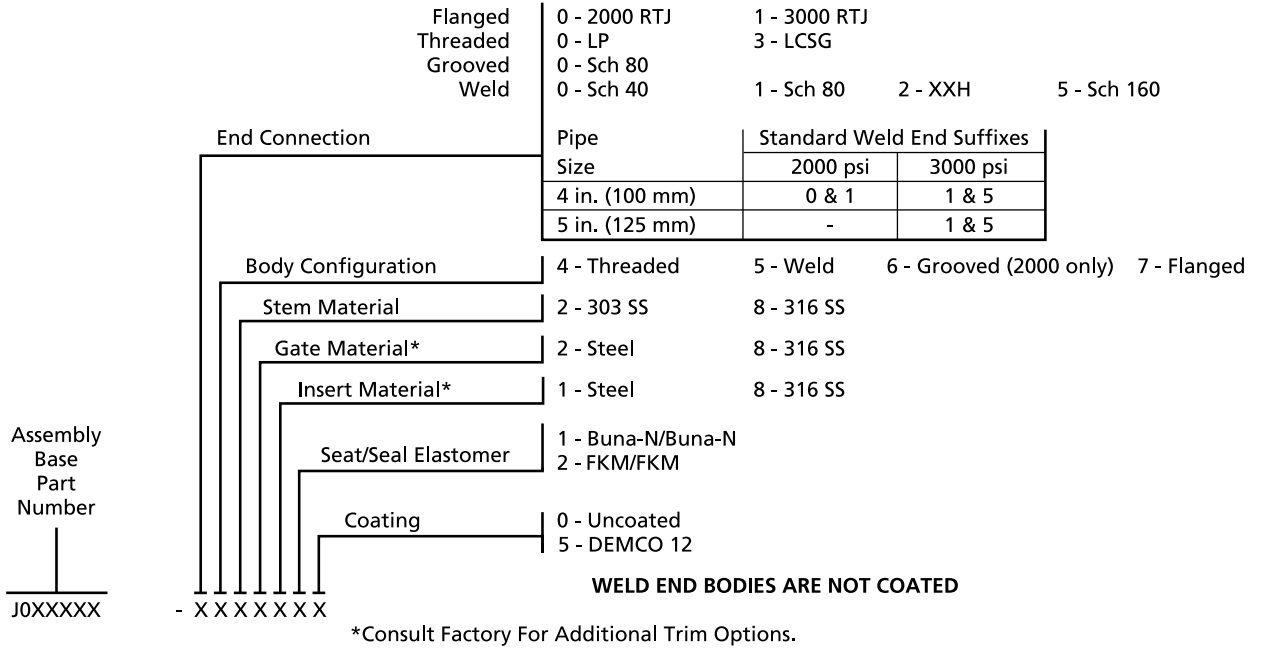
5" (125 mm) Reduced Port
for General Service Conditions



Dimensional Data and Weights

Dimension	Valve Size		
	4" (100 mm) FP 2000 WP – 4000 Test	4" (100 mm) FP	5" x 4" (125 mm x 100 mm) RP 3000 WP – 6000 Test
A	Threaded, Weld and Grooved 13.00 (330)	13.00 (330)	13.00 (330)
	Flanged – RTJ 16.38 (416)	16.38 (416)	-
B	(Open) 21.25 (540)	21.25 (540)	21.25 (540)
C	(Seat Bore) 4.00 (102)	4.00 (102)	4.00 (102)
D	23.00 (584)	23.00 (584)	23.00 (584)
E	Threaded, Weld and Grooved 4.31 (109)	4.56 (116)	4.56 (116)
	Flanged – RTJ 4.31 (109)	4.56 (116)	-
	Flange OD 10.75 (274)	11.50 (292)	-
	Flange Bolts (Qty., Size: in.) 8 – 7/8	8 – 1-1/8	-
	Ring Number (RTJ) R-37	R-37	-
Weight lb (kg)			
	Threaded, Weld and Grooved 140 (64)	162 (73)	162 (73)
	Flanged 200 (91)	265 (120)	-

ASSEMBLY PART NUMBER



Parts List

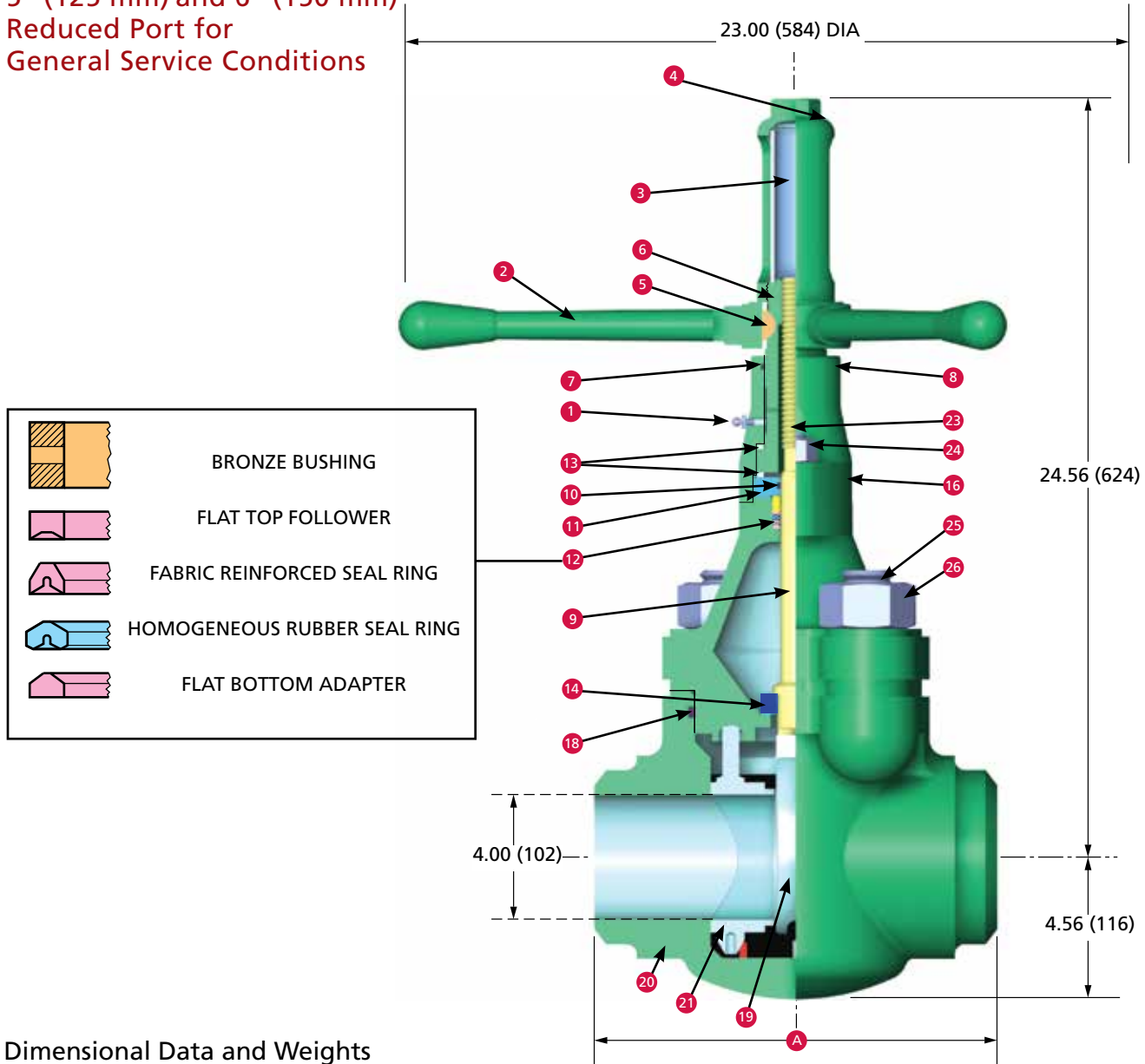
Key No.	Qty.	Description	Valve Size: 4" (100 mm) FP**		
			2000 WP	3000 WP	
		Assembly Base Part Number	4" (100 mm) Full Port - Threaded	J001048	J001049
			- Weld	J001057	J001058
			- Grooved	J011923	
			- Flanged	J001039	J001040
			5" (125 mm) Reduced Port - Weld	-	J001111
1	1	Lube Fitting	Steel	J005195	J005195
2	1	Hub Assembly	ASTM A536 Ductile Iron	2139714-01	2139714-01
4	1	Lock Handle	C-1213	J001897	J001897
6	1	Stem Screw	C-1213	J001915	J001915
7	1	Stem Screw Seal	Buna-N	J005526-227	J005526-227
8	1	Screw Housing	Carbon Steel	J001958	J001958
9	1	Stem	303 SS -002, 316 SS -008	J001933-XXX	J001933-XXX
10	1	Secondary Seal	Buna-N	J005526-214	J005526-214
11	1	Retainer	C-1213	J001942	J001942
12	1	Stem Seal Assembly	Buna-N -001, FKM -006	J001951-XXX	J001951-XXX
16	1	Bonnet	Cast Steel ASTM A487 4A or 2B	J001972-XXX	J001977-XXX
			Coatings	Uncoated -030, Coated DEMCO 10 -031, DEMCO 11 -034, DEMCO 12 -035	
18	1	Bonnet Seal	Buna-N	J005526-438	J005526-439
			FKM	J005531-438	J005531-439
19	1	Gate		J001926-00X	J001926-00X
			Materials	AISI 4140 Nickel Plated -002	
				Cast SS ASTM A351 Grade CF8M Annealed -008	
20	1	Body Materials	ASTM A487 Grade 4 Class A or Grade 2 Class B	Consult Cameron for Body Part Numbers	
			Coatings (Except Weld End Bodies):		
			DEMCO 12		
21	1	Seat Assembly		J002207-0XX	J002207-0XX
			Materials	Inserts: -02X Steel AISI 1040	
				-08X 316 SS ASTM A351 Grade CF8M Annealed	
				Elastomers: -0X1 Buna-N, -0X2 FKM	
22	1	Pin, Lock Handle	Steel	J005420-18732	J005420-18732
23	2	Bonnet Stud	ASTM A193 Grade B7	J002072	J002072
24	2	Bonnet Stud Nut	ASTM A194 Grade 2H	2709000-09-01	2709000-09-01
25	4	Body Stud	ASTM A193 Grade B7	J002074	***J024500
26	4	Body Stud Nut	ASTM A194 Grade 2H	2709000-10-01	***2709000-12-01

■ Major repair kit J025216-13221 – One each for one year of service.
 • Minor repair kit J025216-03221.
 *** Valves made prior to 1994 may use seven pitch stud J002075 and nut L053251-042.
 ** Available as 4-1/16" (103 mm) casing thread 2000 WP-J025020-4422110; 3000 WP-J024968-4422110.

SERIES DM GATE VALVES – 5000 PSI WP – FOUR-BOLT BONNET DESIGN

4" (100 mm) Full Port

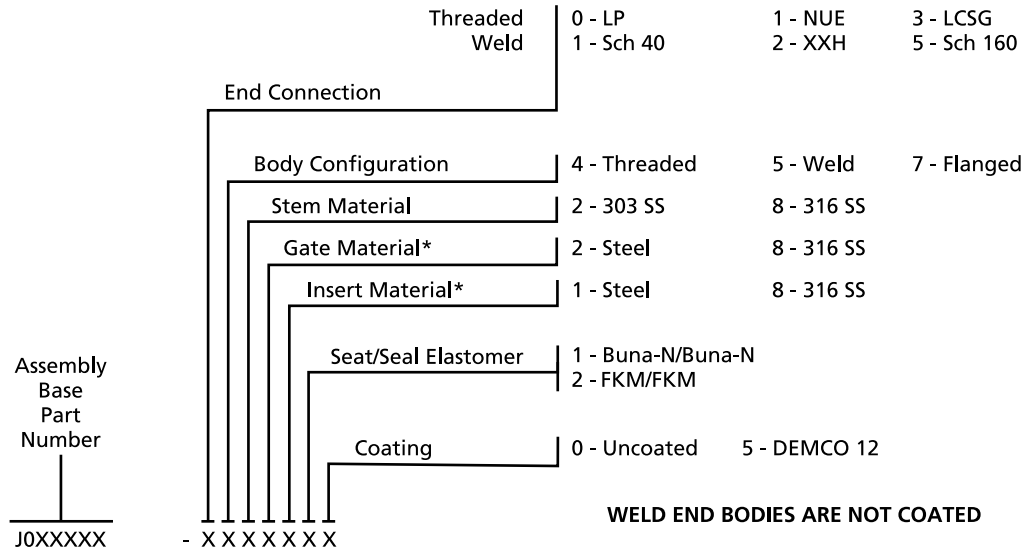
5" (125 mm) and 6" (150 mm)
Reduced Port for
General Service Conditions



Dimensional Data and Weights

Dimension	Valve Size: 4" (100 mm) FP	Valve Size: 5" x 4" (125 mm x 100 mm) and 6" x 4" (150 mm x 100 mm) RP
	5000 WP – 7500 Test	5000 WP – 7500 Test
A Threaded and Weld	13.00 (330)	13.00 (330)
Flanged – RTJ	18.00 (457)	-
Flange OD	12.25 (311)	-
Flange Bolts (Qty., Size: in.)	8 – 1-1/4	-
Ring Number (RTJ)	R-39	-
Turns to Open	23	23
Weight lb (kg)		
Threaded and Weld	210 (95)	210 (95)
Flanged	315 (142)	-

ASSEMBLY PART NUMBER



*Consult Factory For Additional Trim Options.

Parts List

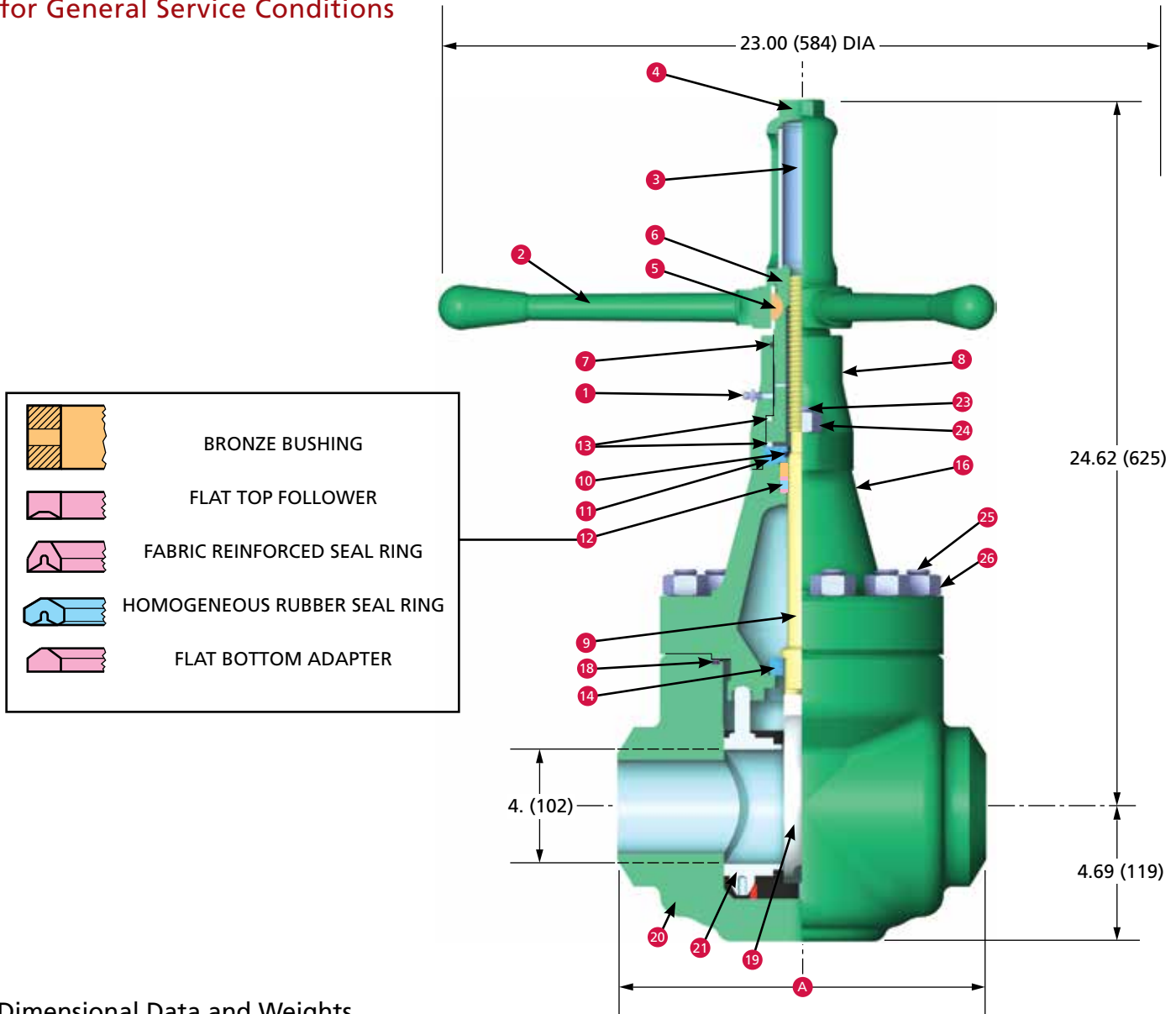
Key No.	Qty.	Description	Valve Size: 4" (100 mm) FP	Valve Size: 5" (125 mm) and 6" (150 mm) RP
			5000 WP – 7500 Test	
		Assembly Base Part Number	4" (100 mm) Full Port J007420	J007420
			5" (125 mm) Reduced Port – Weld J007421	J007421
			6" (150 mm) Reduced Port – Weld J011928	J011928
1	1	Lube Fitting	Steel J005195	J005195
2	1	Handle	ASTM A536 Ductile Iron 2139481-01	2139481-01
3	1	Tube	Clear Acrylic J007459	J007459
4	1	Stem Cap	ASTM A536 Ductile Iron J007411	J007411
■	5	Key	Steel J005305-10016	J005305-10016
■	6	Stem Screw	C-1213 J007416	J007416
■	7	Stem Screw Seal	Buna-N J005526-226	J005526-226
8	1	Screw Housing	C-1029 J007418	J007418
■	9	Stem	303 SS -002, 316 SS -008 J007439-XXX	J007439-XXX
■	10	Secondary Seal	Buna-N J005526-214	J005526-214
■	11	Retainer	C-1213 J007413	J007413
■	12	Stem Seal Assembly	Buna-N J001951-001	J001951-001
			FKM J001951-006	J001951-006
			90 Durometer Buna-N J022093-001	J022093-001
■	13	Bearing	Teflon/Phenolic J007426	J007426
■	14	Downstop Ring	303 SS J007417	J007417
16	1	Bonnet	ASTM A487 Grade 4 Class C or Grade 2 Class B J007419-XXX	J007419-XXX
			Coatings Uncoated -030, Coated DEMCO 10 -031, DEMCO 11 -034, DEMCO 12 -035	
■●	18	Bonnet Seal	Buna-N J005520-439	J005520-439
			FKM J005531-439	J005531-439
■●	19	Gate	J001926-00X	J001926-00X
			Materials AISI 4140 Nickel Plated -002 ASTM A351 Grade CF8M -008	
20	1	Body Materials	ASTM A487 Grade 4 Class A or Grade 2 Class B Coatings (Except Weld End Bodies): DEMCO 12	Consult Cameron for Body Part Numbers
■●	21	Seat Assembly	J002207-0XX	J002207-0XX
			Materials Inserts: -02X Steel AISI 1040 -08X 316 SS ASTM A351 Grade CF8M Annealed Elastomers: -0X1 Buna-N, -0X2 FKM	
23	2	Bonnet Stud	ASTM A193 Grade B7 J002072	J002072
24	2	Bonnet Stud Nut	ASTM A194 Grade 2H 2709000-09-01	2709000-09-01
25	4	Body Stud	ASTM A193 Grade B7 J002077	J002077
26	4	Body Stud Nut	ASTM A194 Grade 2H J001890	J001890

- Major repair kit J025216-14221 – One each for one year of service.
- Minor repair kit J025216-04221.

SERIES DM GATE VALVES – 5000 PSI WP – 12-BOLT BONNET DESIGN

4" (100 mm) Full Port

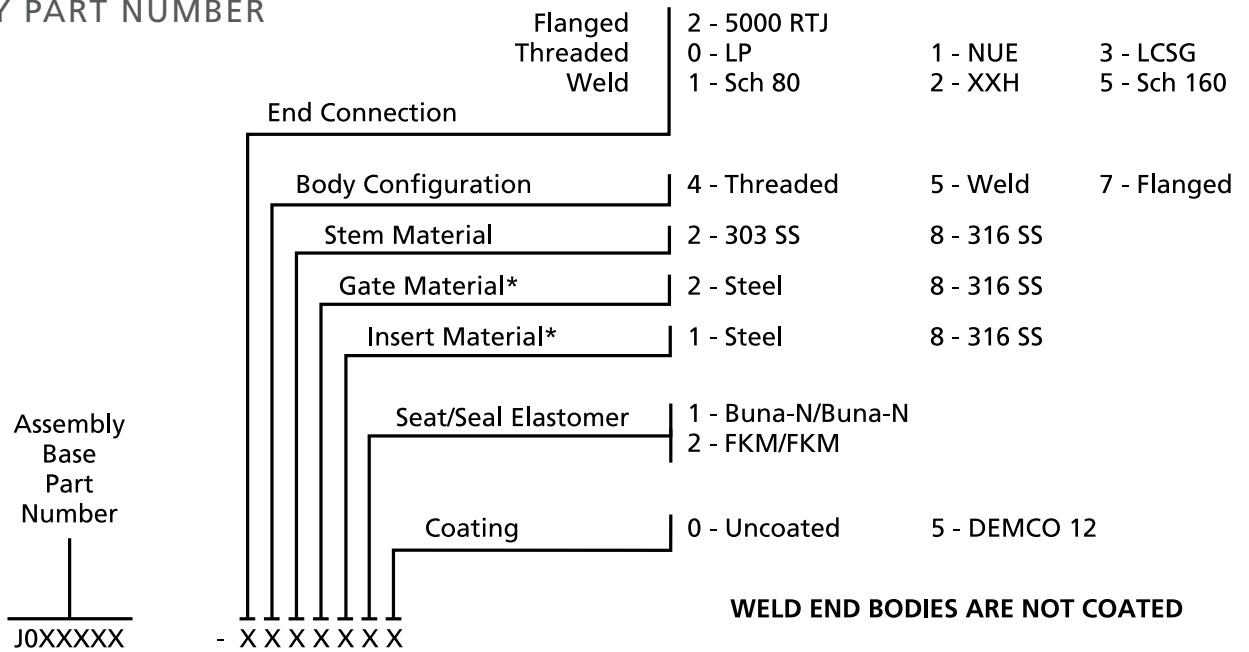
5" (125 mm) and 6" (150 mm) Reduced Port
for General Service Conditions



Dimensional Data and Weights

Dimension	Valve Size: 4" (100 mm) FP	Valve Size: 5" x 4" (125 mm x 100 mm) and 6" x 4" (150 mm x 100 mm) RP	
	5000 WP – 7500 Test	5000 WP – 7500 Test	
A Threaded and Weld	13.00 (330)	13.00 (330)	
Flanged – RTJ	18.00 (457)	-	
Flange OD	12.25 (311)	-	
Flange Bolts (Qty., Size: in.)	8 – 1-1/4	-	
Ring Number (RTJ)	R-39	-	
Turns to Open	23	23	
Weight lb (kg)			
Threaded and Weld	210 (95)	210 (95)	
Flanged	330 (150)	330 (150)	

ASSEMBLY PART NUMBER



*Consult Factory For Additional Trim Options.

Parts List

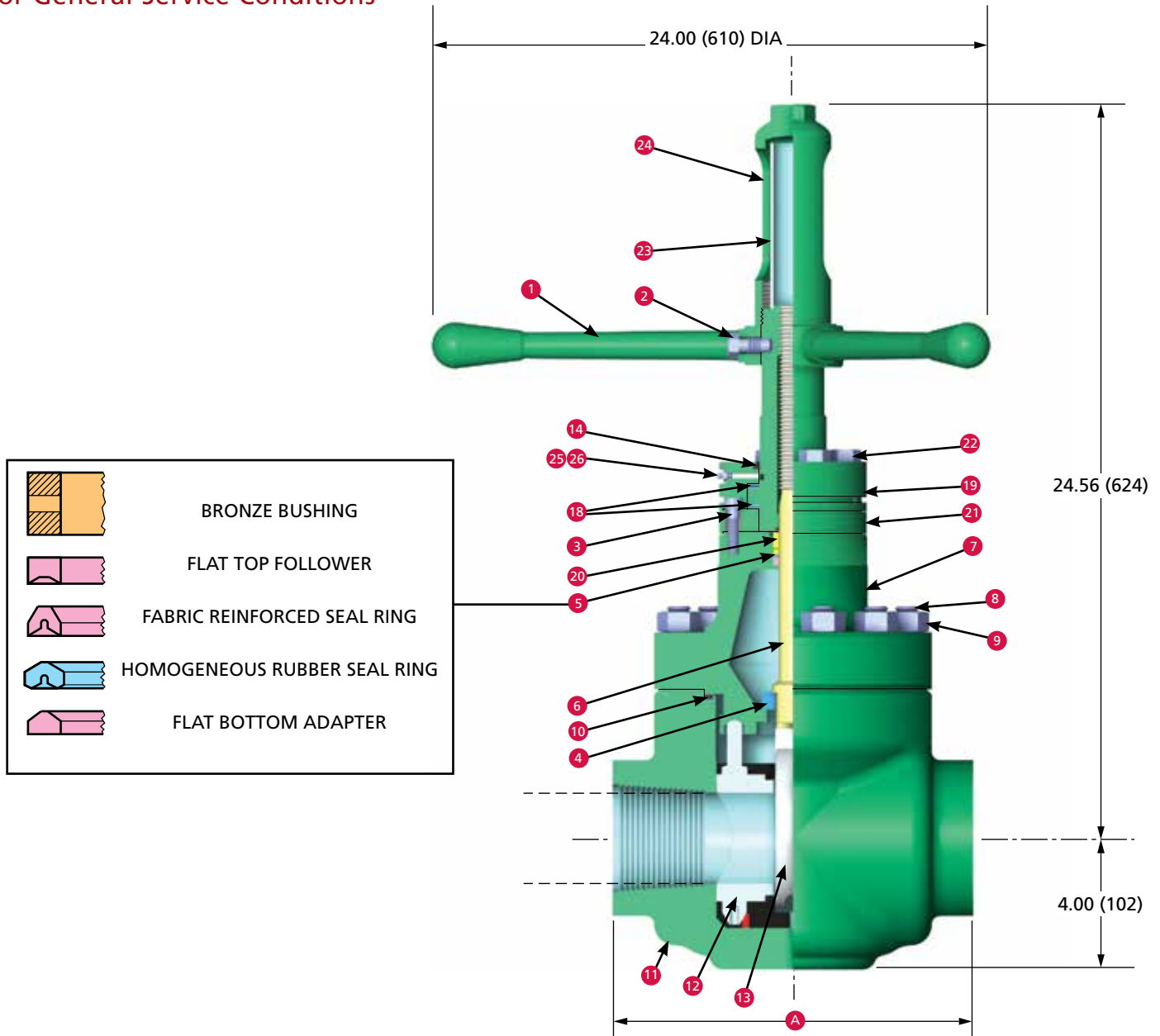
Key No.	Qty.	Description	Valve Size: 4" (100 mm) FP		Valve Size: 5" (125 mm) and 6" (150 mm) RP	
			5000 WP – 7500 Test			
		Assembly Base Number	4" (100 mm) Full Port	J017263	J017263	J017263
			5" (125 mm) Reduced Port – Weld	J017264	J017264	J017264
			6" (150 mm) Reduced Port – Weld	J017265	J017265	J017265
1	1	Lube Fitting	Steel	J005195	J005195	J005195
2	1	Handle	ASTM A536 Ductile Iron	2139481-01	2139481-01	2139481-01
3	1	Tube	Clear Acrylic	J007459	J007459	J007459
4	1	Stem Cap	ASTM A536 Ductile Iron	J007411	J007411	J007411
■	5	Key	Steel	J005305-10016	J005305-10016	J005305-10016
■	6	Stem Screw	C-1213	J007416	J007416	J007416
7	1	Stem Screw Seal	Buna-N	J005526-226	J005526-226	J005526-226
8	1	Screw Housing	C-1029	J007418	J007418	J007418
■	9	Stem	303 SS -002, 316 SS -008	J007439-XXX	J007439-XXX	J007439-XXX
■	10	Secondary Seal	Buna-N	J005526-214	J005526-214	J005526-214
■	11	Retainer	C-1213	J007413	J007413	J007413
■	12	Stem Seal Assembly	Buna-N	J001951-001	J001951-001	J001951-001
			FKM	J001951-006	J001951-006	J001951-006
			90 Durometer Buna-N	J022093-001	J022093-001	J022093-001
■	13	Bearing	Teflon/Phenolic	J007426	J007426	J007426
■	14	Downstop Ring	303 SS	J007417	J007417	J007417
16	1	Bonnet	ASTM A487 Grade 4 Class C	J017289-XXX	J017289-XXX	J017289-XXX
■●	18	Bonnet Seal	Coatings	Uncoated -030, Coated DEMCO 10 -031, DEMCO 11 -034, DEMCO 12 -035		
			Buna-N	J005520-361	J005520-361	J005520-361
			FKM	J005531-361	J005531-361	J005531-361
■●	19	Gate		J001926-00X	J001926-00X	J001926-00X
			Materials	AISI 4140 Nickel Plated -002 ASTM A351 Grade CF8M Annealed -008		
20	1	Body Materials	ASTM A487 Grade 4 Class A Coatings (Except Weld End Bodies): DEMCO 12	Consult Cameron for Body Part Numbers		
■●	21	Seat Assembly		J002207-0XX	J002207-0XX	J002207-0XX
			Materials	Inserts: -02X Steel AISI 1040 -08X 316 SS ASTM A351 Grade CF8M Annealed Elastomers: -0X1 Buna-N, -0X2 FKM		
23	2	Bonnet Stud	ASTM A193 Grade B7	J002072	J002072	J002072
24	2	Bonnet Stud Nut	ASTM A194 Grade 2H	2709000-09-01	2709000-09-01	2709000-09-01
25	12	Body Stud	ASTM A193 Grade B7	J015432	J015432	J015432
26	12	Body Stud Nut	ASTM A194 Grade 2H	2709000-10-01	2709000-10-01	2709000-10-01

- Major repair kit J025216-14221 – One each for one year of service.
- Minor repair kit J025216-04221.

SERIES DM GATE VALVES – 3000 AND 5000 PSI WP

5-1/8" (130 mm) Full Port

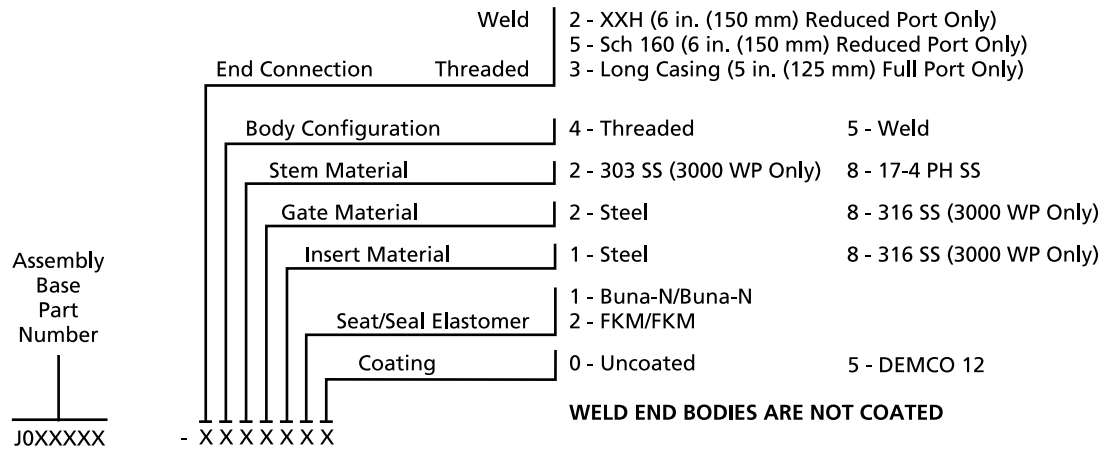
6" (150 mm) x 5-1/8" (130 mm) Reduced Port
for General Service Conditions



Dimensional Data and Weights

		Valve Size: 5-1/8" (130 mm) FP and 6" x 5-1/8" (150 mm x 130 mm) RP
Dimension		3000 and 5000 WP – 6000 and 7500 Test
A	Threaded and Weld	16.00 (406)
Weight lb (kg)		335 (152)

ASSEMBLY PART NUMBER



Parts List

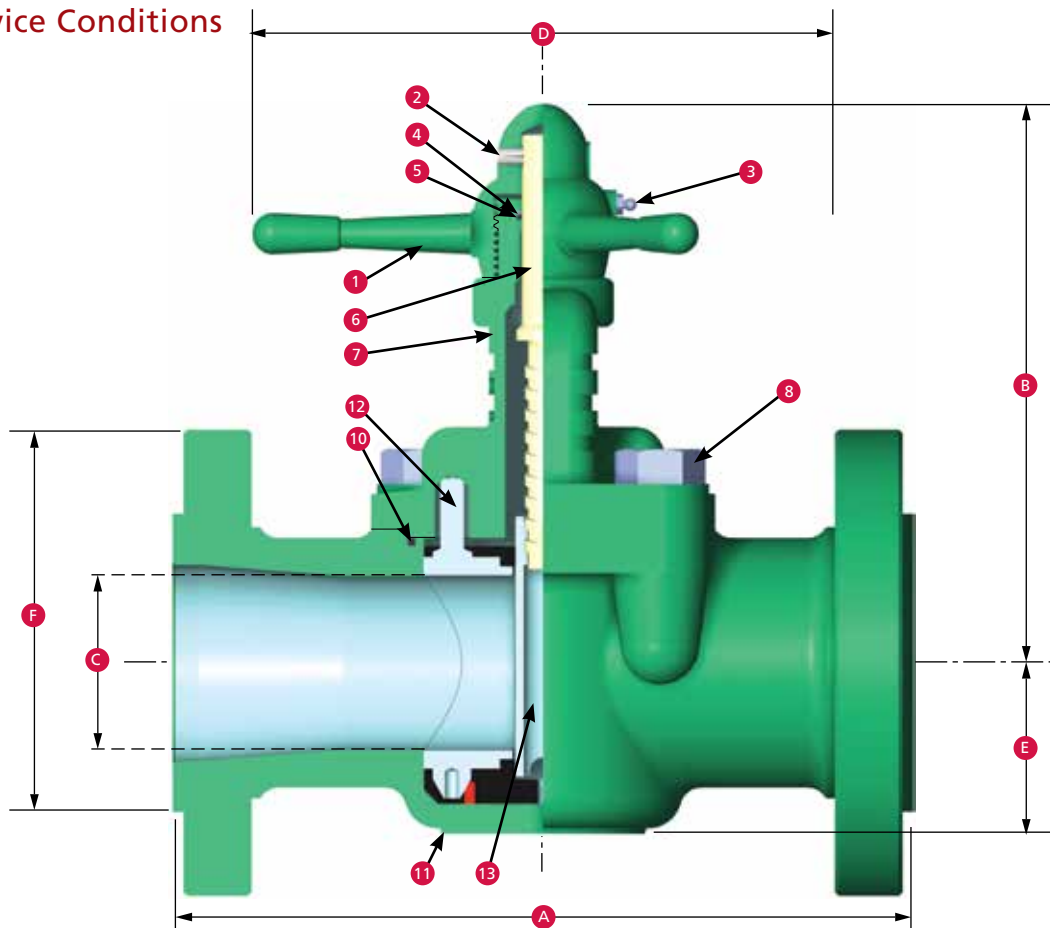
Key No.	Qty.	Description	Valve Size: 5-1/8" (130 mm) FP		Valve Size: 6" (150 mm) x 5-1/8" (130 mm) RP	
			3000 WP – 6000 Test	J021954	5000 WP – 7500 Test	J023925
		Assembly Base Part Number	Full Port – Threaded	J021954	J023925	J025086
			Reduced Port – Weld	-		
1	1	Handwheel	Ductile Iron ASTM A536 Grade 65-45-12		2227656-01	
2	1	Screw – Handwheel	Steel AISI C1018		J014832	
3	4	Screw – Retainer	Alloy Steel		J005665-32028	
4	1	Downstop Ring	Steel AISI C1018		J021942	
*	5	Stem Seal Assembly w/Bushing	-001 Buna-N, -006 FKM		J015853-00X	
6	1	Stem	-002 303 SS -009, 17-4 pH SS	J021943-00X		J021943-009
7	1	Bonnet	Cast Steel ASTM A487 Grade 4 Class C		J021944-03X	
		Coatings	Uncoated -030, Coated DEMCO 10 -031, DEMCO 11 -034, DEMCO 12 -035			
8	12	Body Stud	Steel ASTM A193 Grade B7		J015432	
9	12	Body Stud Nut	Steel ASTM A194 Grade 2H		2709000-10-01	
*	10	Bonnet Seal	Buna-N		J005526-367	
			FKM		J005531-367	
11	1	Body Materials	ASTM A487 Grade 4 Class A			Consult Cameron for Body Part Numbers
		Coatings (Except Weld End Bodies):	DEMCO 12			
*	12	Seat Assembly		J021948-011	J021948-019	
				J021948-012	-	
				J021948-081	-	
				J021948-082	-	
		Materials	Inserts: -01X Steel AISI 1040, -08X 316 SS (3000 WP Only)			
			Elastomers: -0X1 Buna-N, -0X2 FKM, -0X9 90 Duro Buna-N			
*	13	Gate	-002 Steel AISI 4140 Nickel Plated, 008 316 SS (3000 WP Only)	J021952-00X		J021952-002
14	1	Stem Screw Seal	Buna-N		J005526-228	
18	1	Stem Screw w/Bearings	Steel AISI C1018, Steel Bearings	J023888		-
			AL. BRZ. ASTM B148 Alloy 955, Steel Bearings			J024526
19	1	Housing	Steel AISI C1018		J015332	
20	1	Secondary Seal	Buna-N		J005526-216	
21	1	Retainer	Steel AISI C1018		J015330	
22	4	Screw – Housing	Steel		J005650-32056	
23	1	Tube	Clear Acrylic		J012852	
24	1	Stem Cap	Ductile Iron ASTM A536 Grade 65-45-12		J015855	
25	1	Lube Fitting	Steel		J005195	
26	1	Relief Fitting	Steel		J051971	

* Recommended spare parts – One each for one year of service.

SERIES DM GATE VALVES – ASME CLASSES 400 AND 600

1-1/2" and 2" (40 mm and 50 mm) Full Port

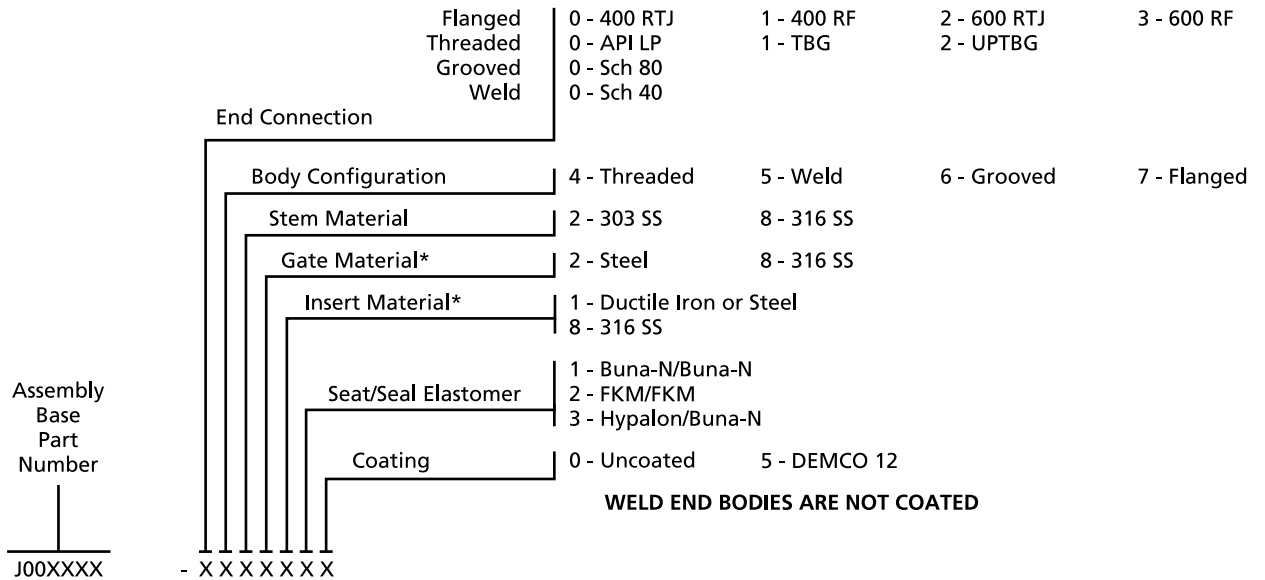
2" (50 mm) Reduced Port for
General Service Conditions



Dimensional Data and Weights

Dimension	Valve Size: 1-1/2" (40 mm) FP 2" x 1-1/2" (50 mm x 40 mm) RP	Valve Size: 2" (50 mm) FP	Valve Size: 2" (50 mm) FP
	ASME Class 600	ASME Class 400	ASME Class 600
A Full Port – Threaded, Weld and Grooved	7.75 (197)	8.88 (226)	8.88 (226)
Reduced Port – Threaded	-	-	7.75 (197)
Flanged – RF	-	11.50 (292)	11.50 (292)
Flanged – RTJ	-	11.62 (295)	11.62 (295)
B (Open) – Full Port	7.75 (197)	8.75 (222)	8.75 (222)
(Open) – Reduced Port	-	-	7.75 (197)
C (Seat Bore) – Full Port	1.62 (41)	2.00 (50)	2.00 (50)
(Seat Bore) – Reduced Port	-	-	1.62 (41)
D Full Port	9.50 (241)	11.00 (279)	11.00 (279)
Reduced Port	-	-	9.50 (241)
E Full Port	2.00 (50)	2.19 (56)	2.19 (56)
Reduced Port	-	-	2.00 (50)
F Flange OD	-	6.50 (165)	6.50 (165)
Flange Bolts (Qty., Size: in.)	-	8 – 5/8	8 – 5/8
Ring Number (RTJ)	-	R-23	R-23
Weight lb (kg)			
Full Port – Threaded, Weld and Grooved	20 (9)	24 (11)	26 (12)
Reduced Port – Threaded	-	-	20 (9)
Full Port – Flanged	-	42 (19)	44 (20)
Reduced Port – Flanged	-	-	40 (18)

ASSEMBLY PART NUMBER



*Consult Factory For Additional Trim Options.

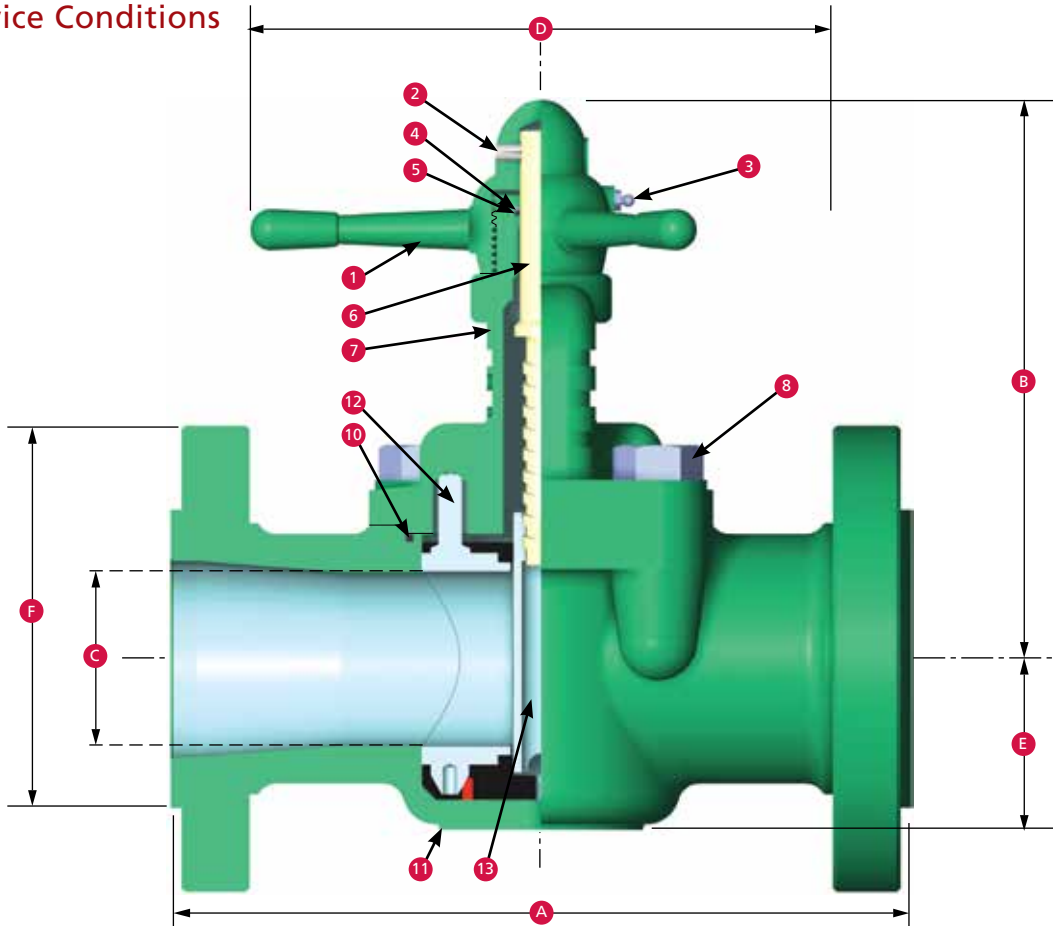
Parts List

Key No.	Qty.	Description	Valve Size: 1-1/2" (40 mm) FP	Valve Size: 2" (50 mm) FP	Valve Size: 2" (50 mm) FP	
			2" x 1-1/2" RP (50 mm x 40 mm) RP	ASME Class 400	ASME Class600	
		Assembly Base Part Number	Full Port – Threaded	J003938	J001071	J001072
			– Weld	-	J001091	J001092
			– Grooved	-	J001081	J001082
			– Flanged	-	J001061	J001062
		Reduced Port – Threaded	J003939	-	-	-
1	1	Handle	Ductile Iron ASTM A536 Grade 65-45-12	J004375	J001276	J001276
2	1	Stem Pin	Spring Steel	J005445-25020	J005445-37528	J005445-37528
3	1	Lube Fitting	Steel	J005195	J005195	J005195
4	1	Backup Ring	Chrome Leather	J005532-115	J005532-211	J005532-211
5	1	Stem Seal	Buna-N	J005526-115	J005526-211	J005526-211
			FKM	J005531-115	J005531-211	J005531-211
6	1	Stem	303 SS -002, 316 SS -008	J004376-XXX	J001279-XXX	J001279-XXX
7	1	Bonnet	Ductile Iron ASTM A395	-	J001277-01X	-
			Steel ASTM A216 Grade WCB	J004330-02X	-	J001277-02X
			Coatings	Uncoated -0X0, Coated DEMCO 10 -0X1, DEMCO 11 -0X4, DEMCO 12, -0X5	-	-
8	4	Body Screw	SAE Grade 5	J005651-32024	J005651-32024	J005651-32024
10	1	Bonnet Seal	Buna-N	J005526-234	J005526-239	J005526-239
			FKM	J005531-234	J005531-239	J005531-239
11	1	Body Materials	2" (50 mm) Full Class 400 Threaded, Grooved and Flanged: Ductile Iron ASTM A395 2" (50 mm) Full Class 600 Threaded, Weld and Grooved: Forged Steel AISI C1029 Normalized All Others: Steel, ASTM A216 Grade WCB Coatings (Except Weld End Bodies): DEMCO 12	Consult Cameron for Body Part Numbers		
12	1	Seat	Materials	J004081-0XX	J001876-0XX	J001876-0XX
				Inserts: -01X Ductile Iron ASTM A395 or Steel AISI 1040 -08X Stainless Steel ASTM A351 Grade CF8M Annealed Elastomers: -0X1 Buna-N, -0X2 FKM		
13	1	Gate	Materials: -002 Steel, Nickel Plated -008 Stainless Steel	J004393-00X AISI C1144 AISI 316 Annealed	J001275-00X AISI C1045	J001275-00X AISI C1045 ASTM A351 CF8M Annealed

SERIES DM GATE VALVES – ASME CLASSES 400 AND 600

2-1/2" (65 mm) through 6" (150 mm) Full Port

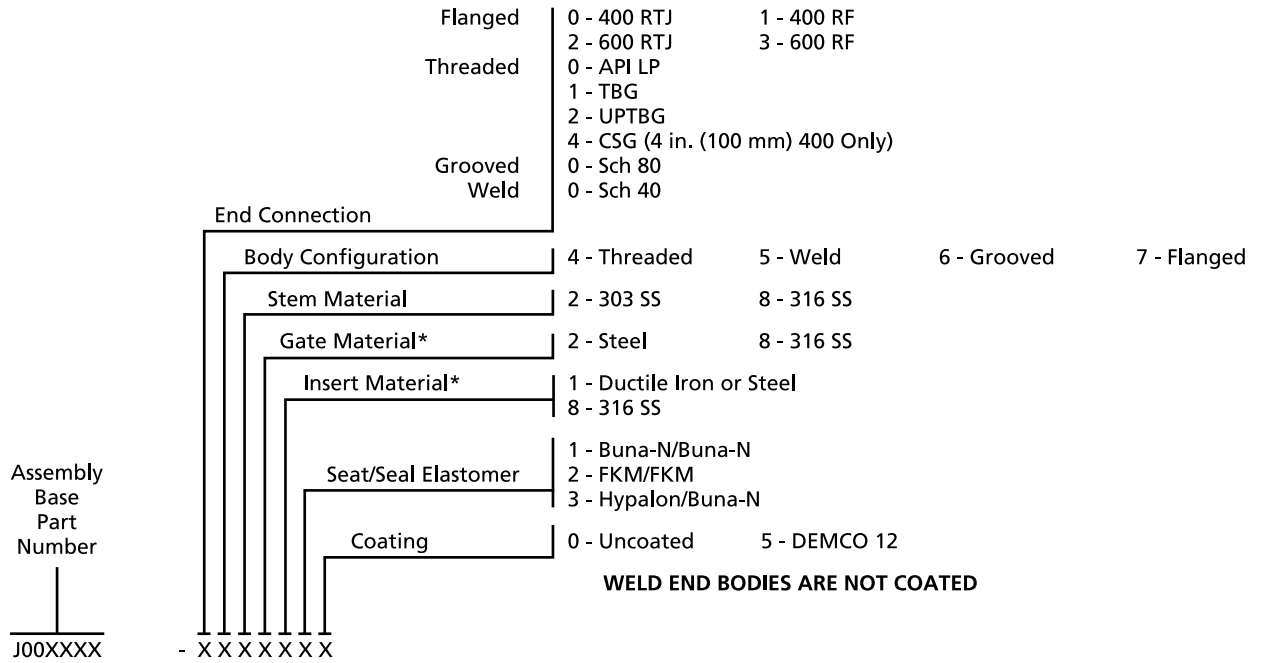
8" (200 mm) Reduced Port for
General Service Conditions



Dimensional Data and Weights

Dimension	Valve Size in. (mm)							
	2-1/2 (65) FP	3 (80) FP	4 (100) FP		6 (150) FP		8 x 6 (200 x 150) RP	
	ASME Classes 400 and 600	ASME Classes 400 and 600	ASME Class 400	ASME Class 600	ASME Class 400	ASME Class 600	ASME Class 600	
A	Threaded, Weld and Grooved	10.00 (254)	10.25 (260)	11.88 (302)	11.88 (302)	15.50 (394)	15.50 (394)	-
	Flanged – RF	13.00 (330)	14.00 (356)	-	17.00 (432)	19.50 (495)	22.00 (559)	26.00 (660)
	Flanged – RTJ	13.12 (333)	14.12 (359)	-	17.12 (435)	19.62 (498)	22.12 (562)	26.12 (663)
B	(Open) – Full Port	10.62 (270)	11.38 (290)	13.88 (353)	13.88 (353)	19.25 (489)	19.25 (489)	-
	(Open) – Reduced Port	-	-	-	-	-	-	19.25 (489)
C	(Seat Bore) – Full Port	2.50 (64)	3.00 (76)	4.00 (102)	4.00 (102)	6.00 (152)	6.00 (152)	-
	(Seat Bore) – Reduced Port	-	-	-	-	-	-	6.00 (152)
D	Full Port	12.62 (321)	12.62 (321)	14.25 (362)	14.25 (362)	24.00 (610)	24.00 (610)	-
	Reduced Port	-	-	-	-	-	-	24.00 (610)
E	Full Port	2.75 (70)	3.19 (81)	3.94 (100)	3.94 (100)	5.62 (143)	5.62 (143)	-
	Reduced Port	-	-	-	-	-	-	5.62 (143)
F	Flange OD	7.50 (191)	8.25 (210)	-	10.75 (274)	12.50 (318)	14.00 (356)	16.50 (419)
	Flange Bolts (Qty., Size: in.)	8 – 3/4	8 – 3/4	-	8 – 5/8	12 – 7/8	12 – 1	12 – 1-1/8
	Ring Number (RTJ)	R-26	R-31	-	R-37	R-45	R-45	R-49
Weight lb (kg)								
	FP – Threaded, Weld and Grooved	48 (22) 50 (23)	58 (26) 60 (27)	93 (42)	98 (44)	300 (136)	310 (141)	-
	FP – Flanged	70 (32) 74 (34)	90 (41) 96 (44)	-	176 (80)	411 (186)	428 (194)	-
	RP – Flanged	-	-	-	-	-	-	590 (268)

ASSEMBLY PART NUMBER



*Consult Factory For Additional Trim Options.

Parts List

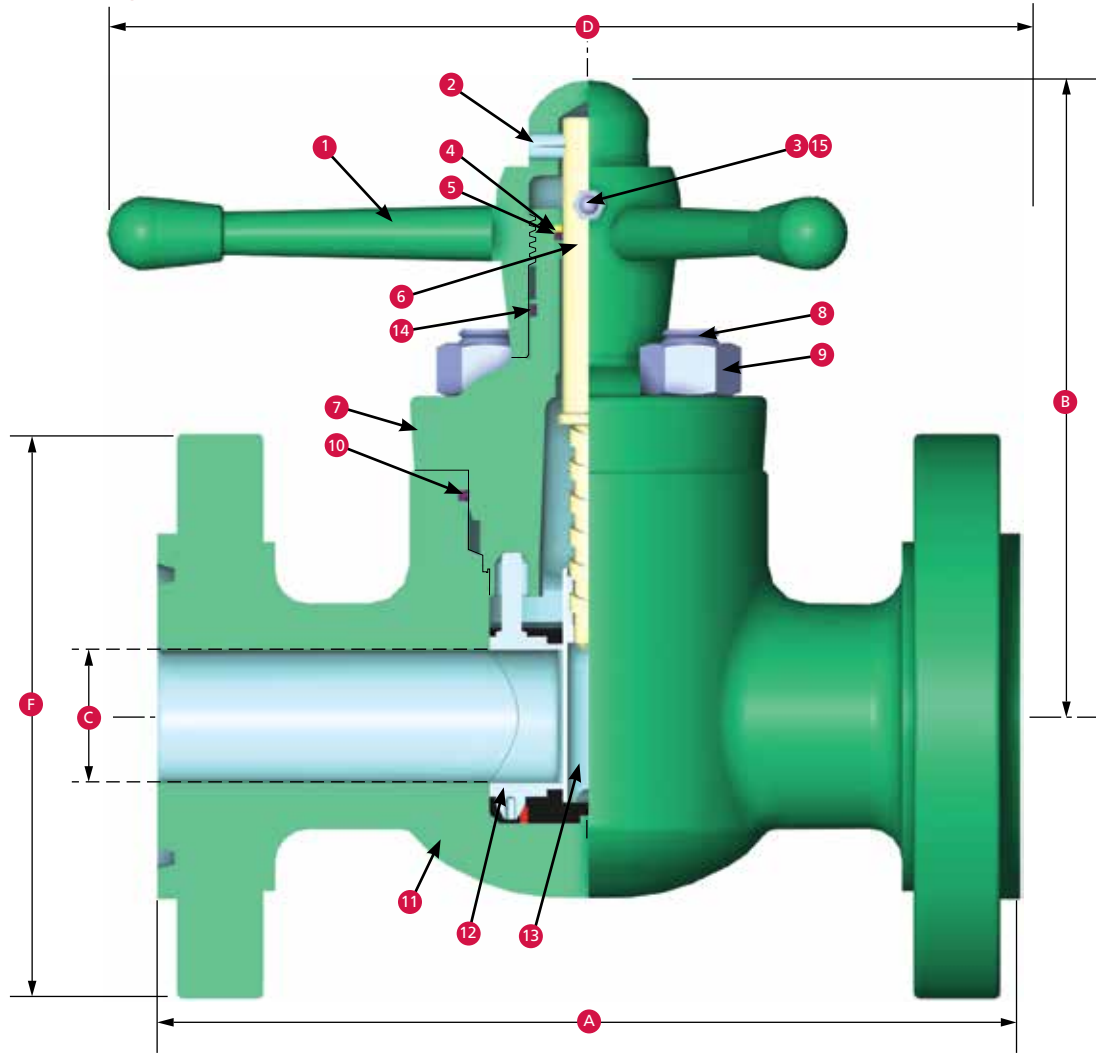
Key No.	Qty.	Description	Valve Size in. (mm) 2-1/2 (65) FP		Valve Size in. (mm) 3 (80) FP		Valve Size in. (mm) 4 (100) FP•		Valve Size in. (mm) 6 (150) FP	
			ASME Class 400	ASME Class 600	ASME Class 400	ASME Class 600	ASME Class 400	ASME Class 600	ASME Class 400	ASME Class 600
		Assembly Base Part Number	J001073	J001074	J001075	J001076	J001077	J001078	J001079	J001080
		Full Port – Threaded	J001093	J001094	J001095	J001096	J001097	J001098	J001099	J001100
		– Weld	J001083	J001084	J001085	J001086	J001087	J001088	J001089	J001090
		– Grooved	J001063	J001064	J001065	J001066	-	J001068	J001069	J001070
		– Flanged	-	-	-	-	-	J001068	J001069	J001070
		Reduced Port – Flanged	-	-	-	-	-	-	-	J003945
1	1	Handle Ductile Iron ASTM A536 Grade 65-45-12	J001290	J001290	J001290	J001290	J001849	J001849	J001850	J001850
2	1	Stem Pin Spring Steel	J005445-37528	J005445-37528	J005445-37528	J005445-37528	J005445-37532	J005445-37532	J005445-37532	J005445-37532
3	1	Lube Fitting Steel	J005195	J005195	J005195	J005195	J005195	J005195	J005195	J005195
4	1	Backup Ring Chrome Leather	J005532-212	J005532-212	J005532-212	J005532-212	J005532-214	J005532-214	J005532-214	J005532-214
5	1	Stem Seal Buna-N	J005526-212	J005526-212	J005526-212	J005526-212	J005526-214	J005526-214	J005526-214	J005526-214
		FKM	J005531-212	J005531-212	J005531-212	J005531-212	J005531-214	J005531-214	J005531-214	J005531-214
6	1	Stem 303 SS -002, 316 SS -008	J001291-XXX	J001291-XXX	J001291-XXX	J001291-XXX	J001853-XXX	J001853-XXX	J001854-XXX	J001854-XXX
7	1	Bonnet ASTM A395 Ductile Iron	-	J001856-01X	-	J001857-01X	-	J001858-01X	-	-
		ASTM A216 Grade WCB	J001293-02X	-	J001856-02X	-	J001857-02X	-	J001858-02X	-
		Coatings	-	-	Uncoated -0X0, Coated DEMCO 10 -0X1, DEMCO 11 -0X4, DEMCO 12 -0X5	-	-	-	-	-
8	4	Body Stud ASTM A193 Grade B7	J002066	J001861	J001861	J001861	J001862	J001862	J001863	J001863
9	4	Body Stud Nut ASTM A194 Grade 2H	2709000-08-01	2709000-09-01	2709000-09-01	2709000-10-01	2709000-10-01	2709000-14-01	2709000-14-01	2709000-14-01
10	1	Bonnet Seal Buna-N	J005526-245	J005526-249	J005526-249	J005526-258	J005526-258	J005526-446	J005526-446	J005526-446
		FKM	J005531-245	J005531-249	J005531-249	J005531-258	J005531-258	J005531-446	J005531-446	J005531-446
11	1	Body Materials Class 400 3" (80 mm) Full Port through 6" (150 mm)	Consult Cameron For Body Part Numbers							
		Full Port Threaded, Grooved and Flanged: Ductile Iron ASTM A395								
		All Others: Steel, ASTM A216 Grade WCB								
		Coatings (Except Weld End Bodies): DEMCO 12								
12	1	Seat	J001877-0XX	J001878-0XX	J001878-0XX	J002207-0XX	J001880-0XX	J001880-0XX	J001880-0XX	J001880-0XX
		Materials	Inserts: -01X Ductile Iron ASTM A395 or Steel AISI 1040 2-1/2", 3", 6" -02X Steel AISI 1040 4" -08X Stainless Steel ASTM A351 Grade CF8M Annealed Elastomers: -0X1 Buna-N, -0X2 FKM							
13	1	Gate	J001881-00X	J001882-00X	J001882-00X	J001883-00X	J001884-00X	J001884-00X	J001884-00X	J001884-00X
		Materials	-002 Steel AISI 1045, Nickel Plated, -008 316 SS Annealed							

• Available as 4-1/16" (103 mm) casing thread ASME Class 400-J024969-4422110.

SERIES DM GATE VALVES – ASME CLASSES 900 AND 1500

2" (50 mm) through 6" (150 mm) Full Port

2" (50 mm) through 3" (80 mm) Full Port

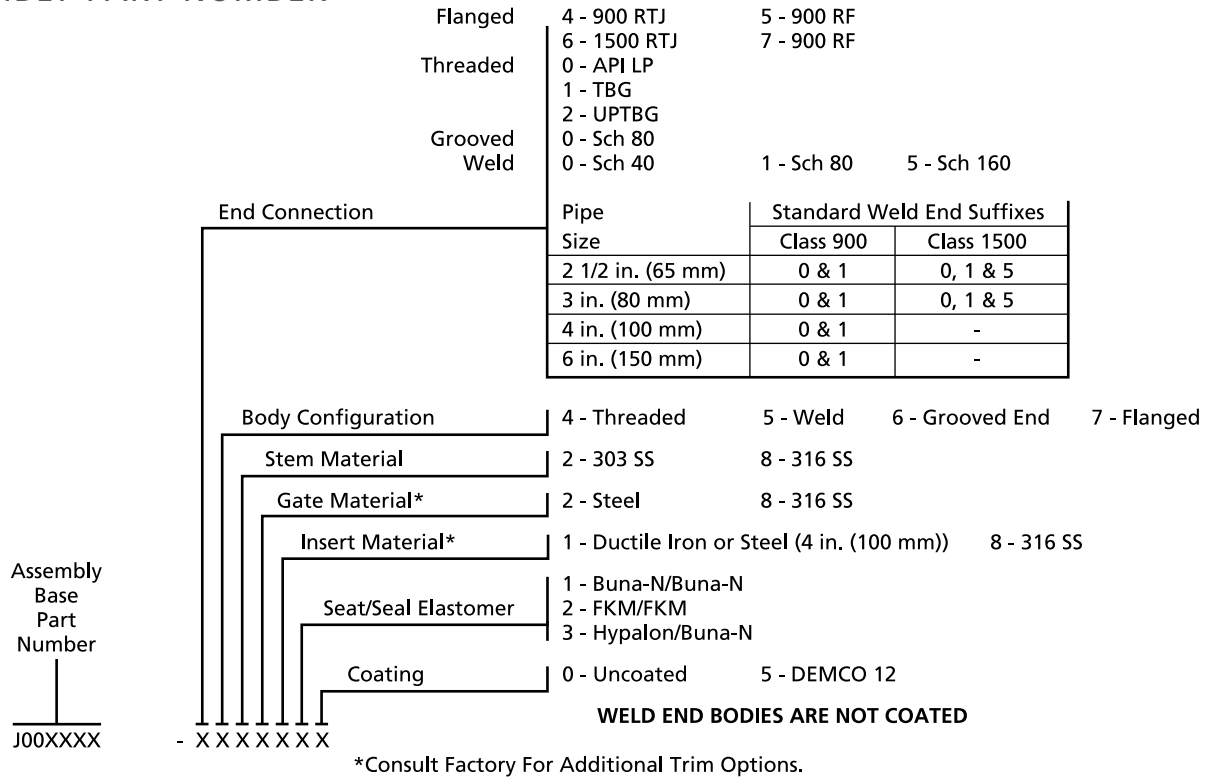


Dimensional Data and Weights

Dimension	Valve Size in. (mm)					
	2" (50 mm) FP	2-1/2" (65 mm) FP	3" (80 mm) FP		4" (100 mm) FP	6" (150 mm) FP
	ASME Class 1500	ASME Classes 900 and 1500	ASME Class 900	ASME Class 1500	ASME Class 900	ASME Class 900
A	Threaded, Weld and Grooved N/A*					
	14.50 (368)	16.50 (419)	15.00 (381)	18.50 (470)	18.00 (457)	24.00 (610)
	14.62 (371)	16.62 (422)	15.12 (384)	18.62 (473)	18.12 (460)	24.12 (613)
B	9.88 (251)	22.88 (581)	12.75 (324)	12.75 (324)	15.00 (381)	19.25 (489)
C	2.00 (51)	2.50 (64)	3.00 (76)	3.00 (76)	4.00 (102)	6.00 (152)
D	14.50 (368)	19.00 (483)	19.00 (483)	19.00 (483)	19.00 (483)	19.00 (483)
F	8.50 (216)	9.62 (244)	9.50 (241)	10.50 (267)	11.50 (292)	15.00 (381)
	8 – 7/8	8 – 1	8 – 7/8	8 – 1-1/8	8 – 1-1/8	12 – 1-1/8
	R-24	R-27	R-31	R-35	R-37	R-45
Weight lb (kg)						
	48 (22)	87 (39)	95 (43)	113 (51)	140 (64)	325 (147)
	100 (45)	170 (77)	160 (73)	205 (93)	230 (104)	540 (245)

* Refer to 2000, 3000 and 5000 threaded, weld and grooved end on pages 22 and 23.

ASSEMBLY PART NUMBER



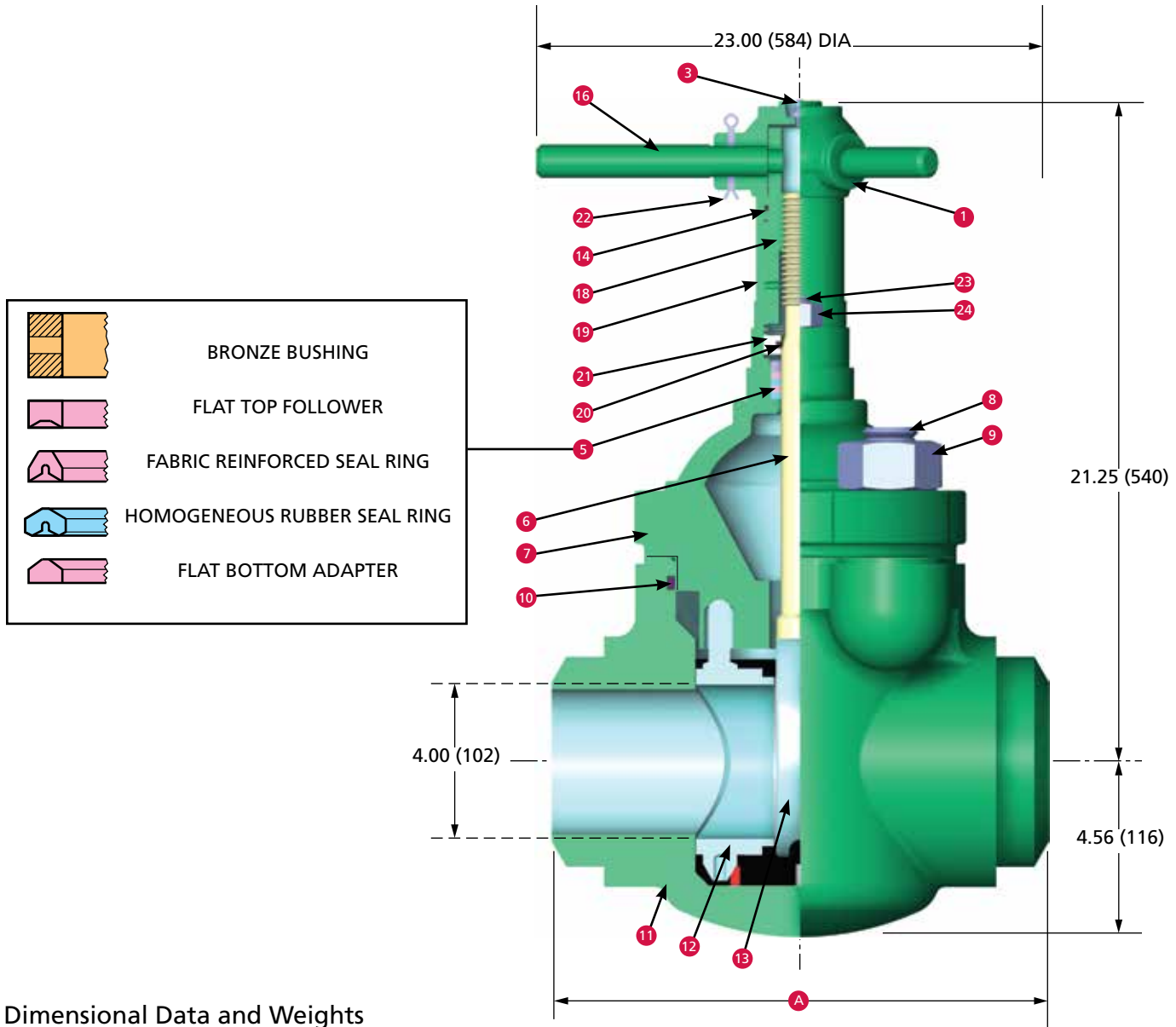
Parts List

Key No.	Qty.	Description	Valve Size in. (mm)							
			2" (50 mm) FP		2-1/2" (65 mm) FP		3" (80 mm) FP		4" (100 mm) FP	6" (150 mm) FP
			ASME Class 900	ASME Class 1500	ASME Class 900	ASME Class 1500	ASME Class 900	ASME Class 1500	ASME Class 900	ASME Class 1500
		Assembly Base Part Number	J003947	J003948	J003951	J003952	J003953	J003957	J003955	J003999
1	1	Handle Ductile Iron ASTM A536 Grade 65-45-12	J023661		J0018195		J0018195		J023663	J001850
2	1	Stem Pin Spring Steel	J005445-37528		J005445-37528		J005445-37528		J005445-37532	
3	1	Lube Fitting Steel	J005195		J005195		J005195		J005195	
4	1	Backup Ring Chrome Leather	J005532-211		J005532-212		J005532-212		J005532-214	
* 5	1	Stem Seal Buna-N FKM	J005526-211 J005531-211		J005526-212 J005531-212		J005526-212 J005531-212		J005526-214 J005531-214	
6	1	Stem 303 SS -002, 316 SS -008	J004395-XXX		J004396-XXX		J004396-XXX		J004397-00X	J001854-00X
7	1	Bonnet ASTM A487 Grade 4 Class A Coatings	J004320-03X		J004322-03X		J004324-03X	J004326-03X	J004328-03X	J001780-03X
8	4	Body Stud	J002072		J002074		J002072	J002074	J002074	J002077
9	4	Body Stud Nut ASTM A194 Grade 2H	2709000-09-01		2709000-10-01		2709000-09-01		2709000-10-01	J001890
* 10	1	Bonnet Seal Buna-N FKM	J005526-342 J005531-342		J005526-427 J005531-427		J005526-431 J005531-431	J005526-433 J005531-433	J005526-438 J005531-438	J005526-446 J005531-446
11	1	Body Materials ASTM A487 Grade 4 Class A or Grade 2 Class B	Consult Cameron for Body Part Numbers							
* 12	1	Seat Assembly Materials	J001876-0XX		J001877-0XX		J001878-0XX		J002207-0XX	J001880-0XX
			Inserts: -01X Ductile Iron ASTM A395 or Steel AISI 1040 -08X 316 SS ASTM A351 Grade CF8M Annealed Elastomers: -0X1 Buna-N, -0X2 FKM							
* 13	1	Gate Materials	J001275-XXX		J001881-XXX		J001882-00X		J001883-00X	J001884-00X
			-002 Nickel Plated Steel AISI 4145 -008 316 SS Wrought Type - 2" (50 mm) Only ASTM A351 CF8M - Others							
14	1	Screw Seal Buna-N	J005526-222		J005526-234		J005526-224		J005526-226	-
15	1	Relief Fitting Steel	J005197		J005197		J005197		J005197	-

* Recommended spare parts – one each for one year of service.

SERIES DM GATE VALVES – ASME CLASS 1500

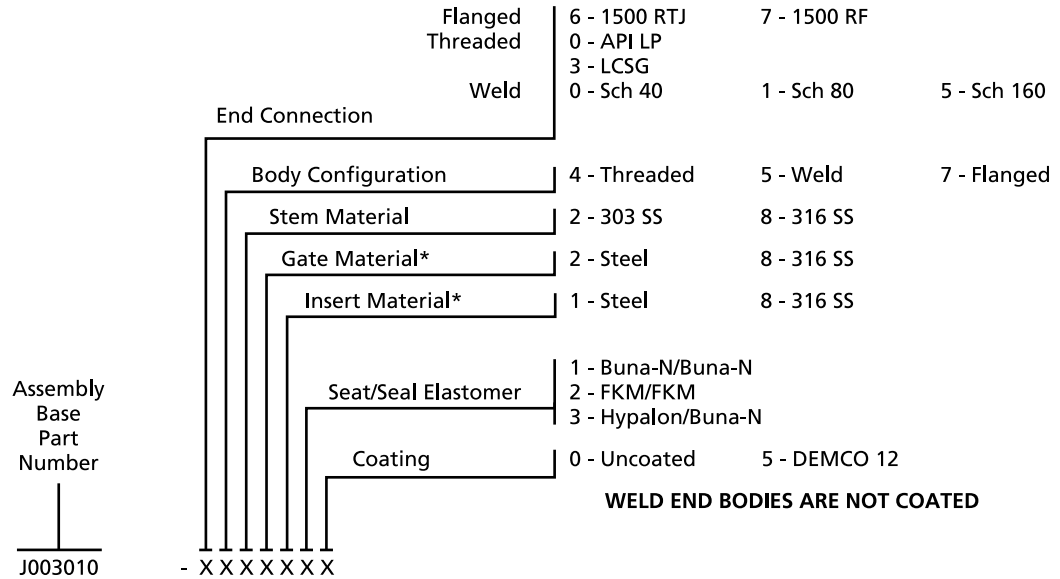
4" (100 mm) Full Port for General Service Conditions



Dimensional Data and Weights

		Valve Size: 4" (100 mm) FP	
		ASME Class 1500	
Dimension	A	Threaded and Weld	13.00 (330)
		Flanged – RF	21.50 (546)
		Flanged – RTJ	21.62 (449)
		Flange OD	12.25 (311)
		Flange Bolts (Qty., Size: in.)	8 – 1-1/4
		Ring Number (RTJ)	R-39
Weight lb (kg)			
	Threaded and Weld		162 (73)
	Flanged		320 (145)

ASSEMBLY PART NUMBER



*Consult Factory For Additional Trim Options.

Parts List

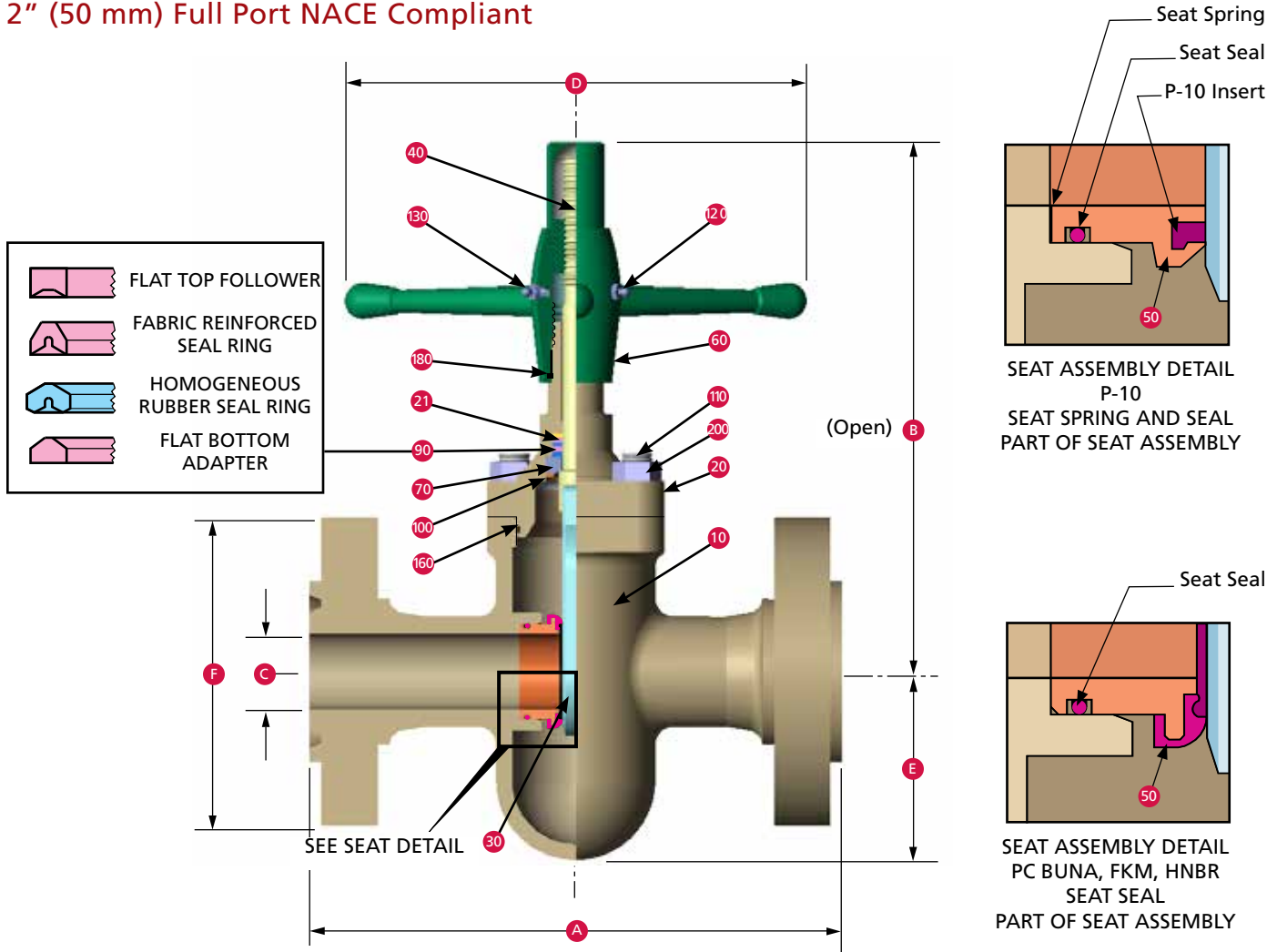
Key No.	Qty.	Description	Valve Size: 4" (100 mm) FP	
				ASME Class: 1500
		Assembly Base Part Number		J003010
1	1	Handle Assembly	Ductile Iron ASTM A536 Grade 65-45-12	2139714-01
3	1	Lube Fitting	Steel	J005195
* 5	1	Stem Seal Assembly	Buna-N	J001951-001
			FKM	J001951-006
6	1	Stem	303 SS -002, 316 SS -008	J001933-XXX
7	1	Bonnet	ASTM A487 Grade 4 Class A or Class B	J001977-XXX
			Coatings	Uncoated -030, Coated DEMCO 10 -031, DEMCO 11 -034, DEMCO 12 -035
8	4	Body Stud	ASTM A193 Grade B7	**J0024500
9	4	Body Stud Nut	ASTM A194 Grade 2H	**2709000-12-01
* 10	1	Bonnet Seal	Buna-N	J005526-439
			FKM	J005531-439
11	1	Body Materials	ASTM A487 Grade 4 Class A or Grade 2 Class B	Consult Cameron for Body Part Numbers
* 12	1	Seat	Materials	J002207-0XX
				Inserts: -02X Steel AISI 1040 -08X 316 SS ASTM A351 Grade CF8M Annealed Elastomers: -0X1 Buna-N, -0X2 FKM
* 13	1	Gate	Materials	J001926-XXX
				-002 AISI 4140 Nickel Plated -008 ASTM A351 Grade CF8M
14	1	Screw Seal	Buna-N	J005526-227
16	1	Lock Handle	AISI C1213	J001897
18	1	Stem Screw	AISI C1213	J001915
19	1	Screw Housing	AISI 1029	J001958
* 20	1	Secondary Seal	Buna-N	J005526-214
21	1	Retainer	AISI C1213	J001942
22	1	Pin, Lock Handle	Steel	J005420-18732
23	2	Bonnet Stud	ASTM A193 Grade B7	J002072
24	2	Body Stud Nut	ASTM A194 Grade 2H	2709000-09-01

* Recommended spare parts – one each for one year of service.

** Valves made prior to 1994 may use 7 pitch stud J002075 and nut J053251-042.

SERIES DT GATE VALVES – ASME CLASSES 600, 900, AND 1500

2" (50 mm) Full Port NACE Compliant



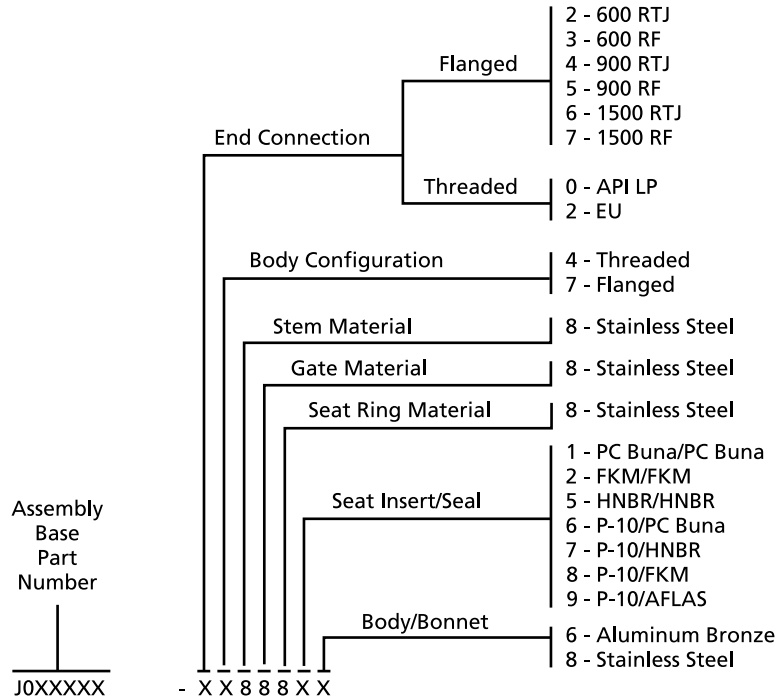
Dimensional Data and Weights

Dimension	Valve Size: 2" (50 mm) FP		
	ASME Class 600	ASME Class 900	ASME Class 1500
A	Threaded Flanged – RF Flanged – RTJ	- 8.50 (216) 14.50 (368)	8.50 (216) 14.50 (368) 14.62 (371)
B	(Open)	14.63 (372)	14.63 (372)
C	(Seat Bore)	2.06 (52)	2.06 (52)
D		14.50 (368)	14.50 (368)
E		5.00 (127)	5.25 (133)
F	Flange OD Flange Bolts (Qty., Size: in.) Ring Number (RTJ)	6.50 (165) 8 – 5/8 R-23	8.50 (216) 8 – 7/8 R-24
Weight lb (kg)			
	Threaded	-	44 (20)
	Flanged	48 (22)	82 (37)

Working Pressure (psi)

End Connection	Material	ASME Class 600	ASME Class 900	ASME Class 1500
Threaded	Bronze	-	2220	3705
	Stainless Steel	-	2220	3705
Flanged	Bronze	1480	2220	3705
	Stainless Steel	1440	2160	3600

ASSEMBLY PART NUMBER

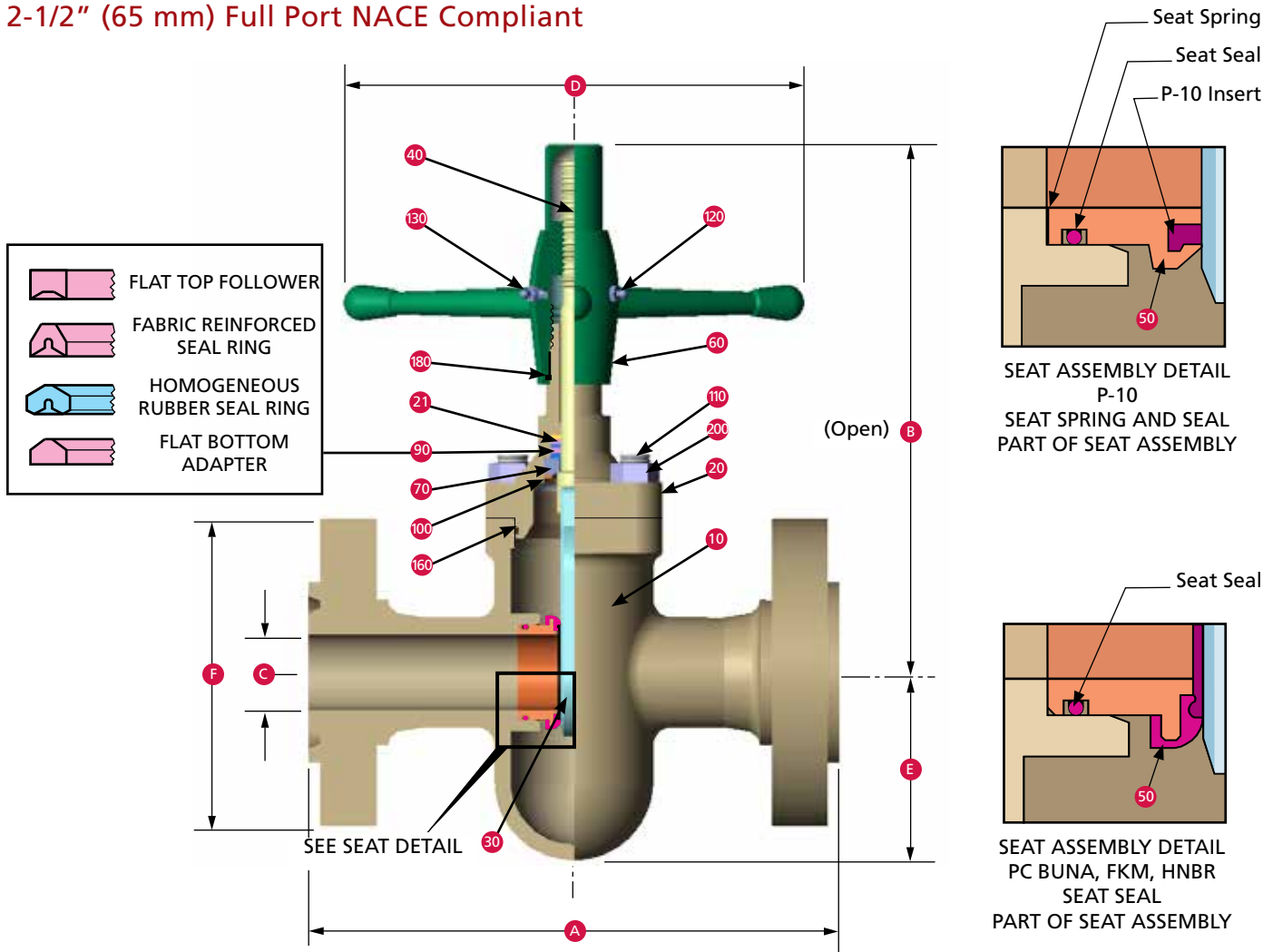


Parts List

Key No.	Qty.	Description	Valve Size: 2" (50 mm) FP		Material Specification (See Note 1)
			ASME Class 600	ASME Class 900/1500	
10	1	Assembly Base Part Number	J024997	J024998/J024999	
		Body	Consult Cameron for Body Part Numbers		Aluminum Bronze ASTM B148 Alloy 955 Stainless Steel CF8M
20	1	Bonnet	2060241-11 2060241-12	J024323-060 J024660-080	Aluminum Bronze ASTM B148 Alloy 955 Stainless Steel CF8M
21	1	Stem Bushing (f/SS Bonnet)		J024661-060	Bronze ASTM B505 Alloy 93200
30	1	Gate	1, 2, 5 6, 7, 8, 9	J024558-008 J024559-008	Stainless Steel CF8M
40	1	Stem		J024089-008	316 SS
50	2	Seat Assembly (See Note 2)	1 2 5 6 7 8 9	2061588-01 2061589-01 2227057-01 2061590-01 2227058-01 Consult Cameron for Assembly Part Numbers Consult Cameron for Assembly Part Numbers	Ring: CF8M; Elastomer: Buna-N, Peroxide-Cured, 90 Duro Ring: CF8M; Elastomer: FKM, 75 Duro Ring: CF8M; Elastomer: HNBR, Peroxide-Cured, 80 Duro Ring: CF8M; Insert: PEEK; Seal: Buna-N, Peroxide-Cured, 90 Duro; Spring: Inconel® X-750 Ring: CF8M; Insert: PEEK; Seal: HNBR, 90 Duro; Spring: Inconel X-750 Ring: CF8M; Insert: PEEK; Seal: HNBR, 90 Duro; Spring: Inconel X-750 Ring: CF8M; Insert: PEEK; Seal: AFLAS, 90 Duro; Spring: Inconel X-750
60	1	Handle		2139937-01	Ductile Iron ASTM A536 Grade 65-45-12
70	1	Stem Packing Retainer		J024324-008	316 SS
90	1	Stem Seal Assembly		J024882-601	Teflon/Elgiloy
100	1	Retainer Snap Ring		J090066-162	PH 15-7 Mo
110	4	Stud	219066-07-02-21	219066-08-02-61	ASTM A193 B7M/Zinc-Plated
120	1	Lube Fitting		005929-18	Steel
130	1	Vent Fitting		2726258-01	Steel
160	1	Bonnet Seal (See Note 2)	1, 6 2, 8 5, 7 9	J005520-234 J005521-234 2712425-37 2788035-08 J005526-219	Buna-N, Peroxide-Cured, 90 Duro FKM, 90 Duro HNBR, 90 Duro AFLAS Buna-N
180	1	Handle Seal		J005526-219	Buna-N
200	4	Nut	2709000-07-11	2709000-08-11	ASTM A194 2HM/Zinc-Plated

Notes: 1. CF8M is ASTM A351 Grade CF8M annealed. 316 SS is AISI Type 316 SS annealed.
2. These parts are keyed to the assembly part number. "Seat insert/seal" code numbers indicated.

SERIES DT GATE VALVES – ASME CLASSES 600, 900, AND 1500
 2-1/2" (65 mm) Full Port NACE Compliant



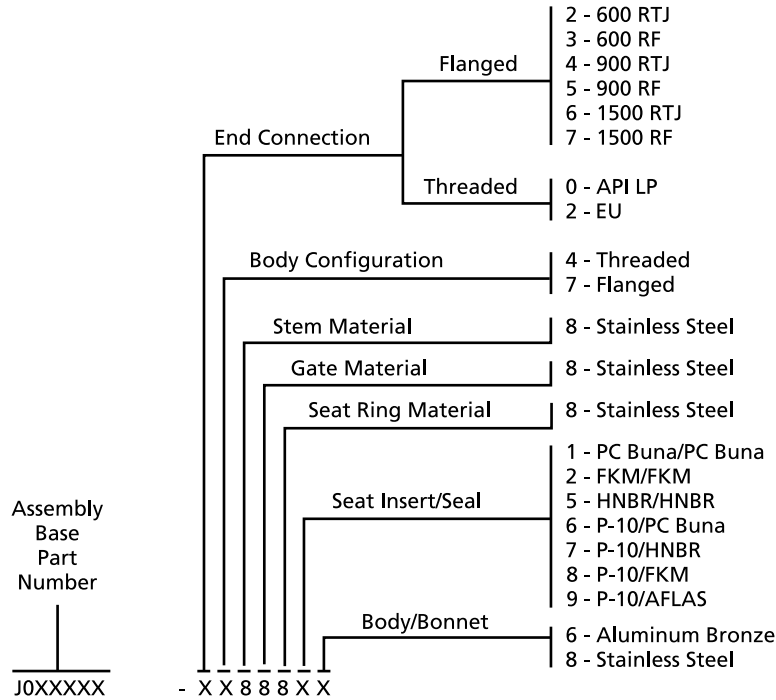
Dimensional Data and Weights

Dimension	Valve Size: 2-1/2" (65 mm) FP		
	ASME Class 600	ASME Class 900	ASME Class 1500
A Threaded	-	8.75 (222)	8.75 (222)
Flanged – RF	13.00 (330)	16.50 (419)	16.50 (419)
Flanged – RTJ	13.12 (333)	16.62 (422)	16.62 (422)
B (Open)	16.71 (424)	16.71 (424)	16.71 (424)
C (Seat Bore)	2.56 (65)	2.56 (65)	2.56 (65)
D	14.75 (375)	14.75 (375)	14.75 (375)
E	6.12 (155)	6.38 (162)	6.38 (162)
F Flange OD	7.50 (191)	9.62 (244)	9.62 (244)
Flange Bolts (Qty., Size: in.)	8 – 3/4	8 – 1	8 – 1
Ring Number (RTJ)	R-26	R-27	R-27
Weight lb (kg)			
Threaded	-	57 (26)	57 (26)
Flanged	77 (35)	110 (50)	110 (50)

Working Pressure (psi)

End Connection	Material	ASME Class 600	ASME Class 900	ASME Class 1500
Threaded	Bronze	-	2220	3705
	Stainless Steel	-	2220	3705
Flanged	Bronze	1480	2220	3705
	Stainless Steel	1440	2160	3600

ASSEMBLY PART NUMBER



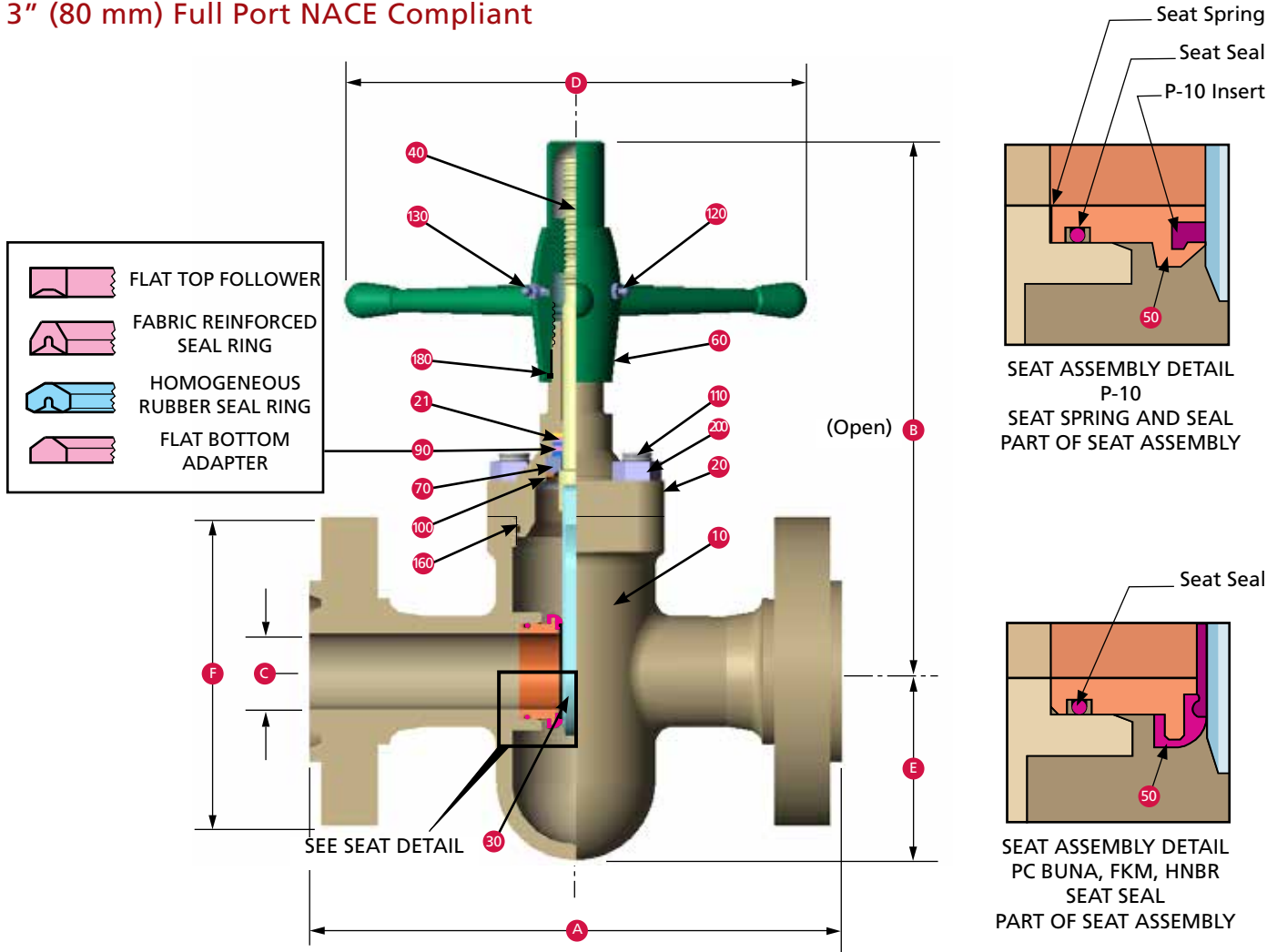
Parts List

Key No.	Qty.	Description	Valve Size: 2-1/2" (65 mm) FP		Material Specification (See Note 1)	
			ASME Class 600	ASME Class 900/ 1500		
		Assembly Base Part Number	J025000	J025001/J025002		
10	1	Body	Consult Cameron for Body Part Numbers		Aluminum Bronze ASTM B148 Alloy 955 Stainless Steel CF8M	
20	1	Bonnet	Aluminum Bronze Stainless Steel	2139015-11 2139015-12	2139020-11 2061920-01	Aluminum Bronze ASTM B148 Alloy 955 Stainless Steel CF8M
21	1	Stem Bushing (f/SS Bonnet)		J024676-060	Bronze ASTM B150 Alloy C63000	
30	1	Gate (See Note 2)	1, 2, 5 6, 7, 8, 9	2060265-01 2060266-01	Stainless Steel CF8M	
40	1	Stem	f/ Aluminum Bronze Valve f/ Stainless Steel Valve	2060256-02	2060256-02 2061921-01	316 SS
50	2	Seat Assembly (See Note 2)	1 2 5 6	2061588-02 2061589-02	Ring: CF8M; Elastomer: Buna-N, Peroxide-Cured, 90 Duro Ring: CF8M; Elastomer: FKM, 75 Duro	
			7 8 9	Consult Cameron for Seat Assembly Part Numbers 2061590-02	Ring: CF8M; Elastomer: HNBR, Peroxide-Cured, 80 Duro Ring: CF8M; Insert: PEEK; Seal: Buna-N, Peroxide-Cured, 90 Duro Spring: Inconel X-750 Ring: CF8M; Insert: PEEK; Seal: HNBR, Peroxide-Cured, 90 Duro Spring: Inconel X-750 Ring: CF8M; Insert: PEEK; Seal: FKM, 90 Duro Spring: Inconel X-750 Ring: CF8M; Insert: PEEK; Seal: AFLAS, 90 Duro Spring: Inconel X-750	
60	1	Handle		227862-091	Ductile Iron ASTM A536 Grade 65-45-12	
70	1	Stem Packing Retainer		2060259-08	316 SS	
90	1	Stem Seal Assembly		J024882-603	Teflon/Elgiloy	
100	1	Retainer Snap Ring		J090066-162	PH 15-7 Mo	
110	4	Stud	219066-07-02-21	219066-09-03-21	ASTM A193 B7M/Zinc-Plated	
120	1	Lube Fitting		005929-18	Steel	
130	1	Vent Fitting		2726258-01	Steel	
160	1	Bonnet Seal (See Note 2)	1, 6 2, 8 5, 7 9	J005520-239 J005521-239 2712425-08 2788035-08 J005526-221	Buna-N, Peroxide-Cured, 90 Duro FKM, 90 Duro HNBR, 90 Duro AFLAS Buna-N	
180	1	Handle Seal		J005526-221	Buna-N	
200	4	Nut	2709000-07-11	2709000-09-11	ASTM A194 2HM/Zinc-Plated	

Notes: 1. CF8M is ASTM A351 Grade CF8M annealed. 316 SS is AISI Type 316 SS annealed.
2. These parts are keyed to the assembly part number. "Seat insert/seal" code numbers indicated.

SERIES DT GATE VALVES – ASME CLASSES 600, 900, AND 1500

3" (80 mm) Full Port NACE Compliant



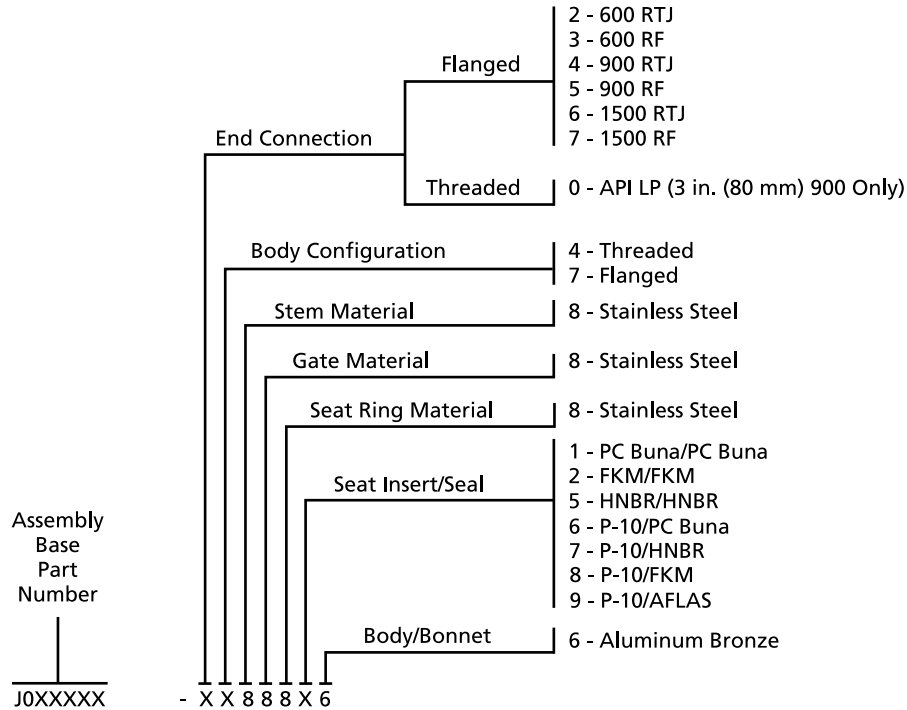
Dimensional Data and Weights

Dimension	Valve Size: 3" (80 mm) FP		
	ASME Class 600	ASME Class 900	ASME Class 1500
A	Threaded -	9.69 (246)	-
	Flanged – RF	15.00 (381)	18.50 (470)
	Flanged – RTJ	14.12 (359)	18.62 (373)
B	(Open)	18.00 (457)	18.82 (478)
C	(Seat Bore)	3.12 (79)	3.12 (79)
D		14.75 (375)	18.00 (457)
E		6.81 (173)	7.15 (182)
F	Flange OD	8.25 (210)	9.50 (241)
	Flange Bolts (Qty., Size: in.)	8 – 3/4	8 – 7/8
	Ring Number (RTJ)	R-31	R-31
Weight lb (kg)			
	Threaded	-	75 (34)
	Flanged	100 (45)	125 (37)
			185 (84)

Working Pressure (psi)

End Connection	Material	ASME Class 600	ASME Class 900	ASME Class 1500
Threaded	Bronze	-	2220	-
Flanged	Bronze	1480	2220	3705

ASSEMBLY PART NUMBER



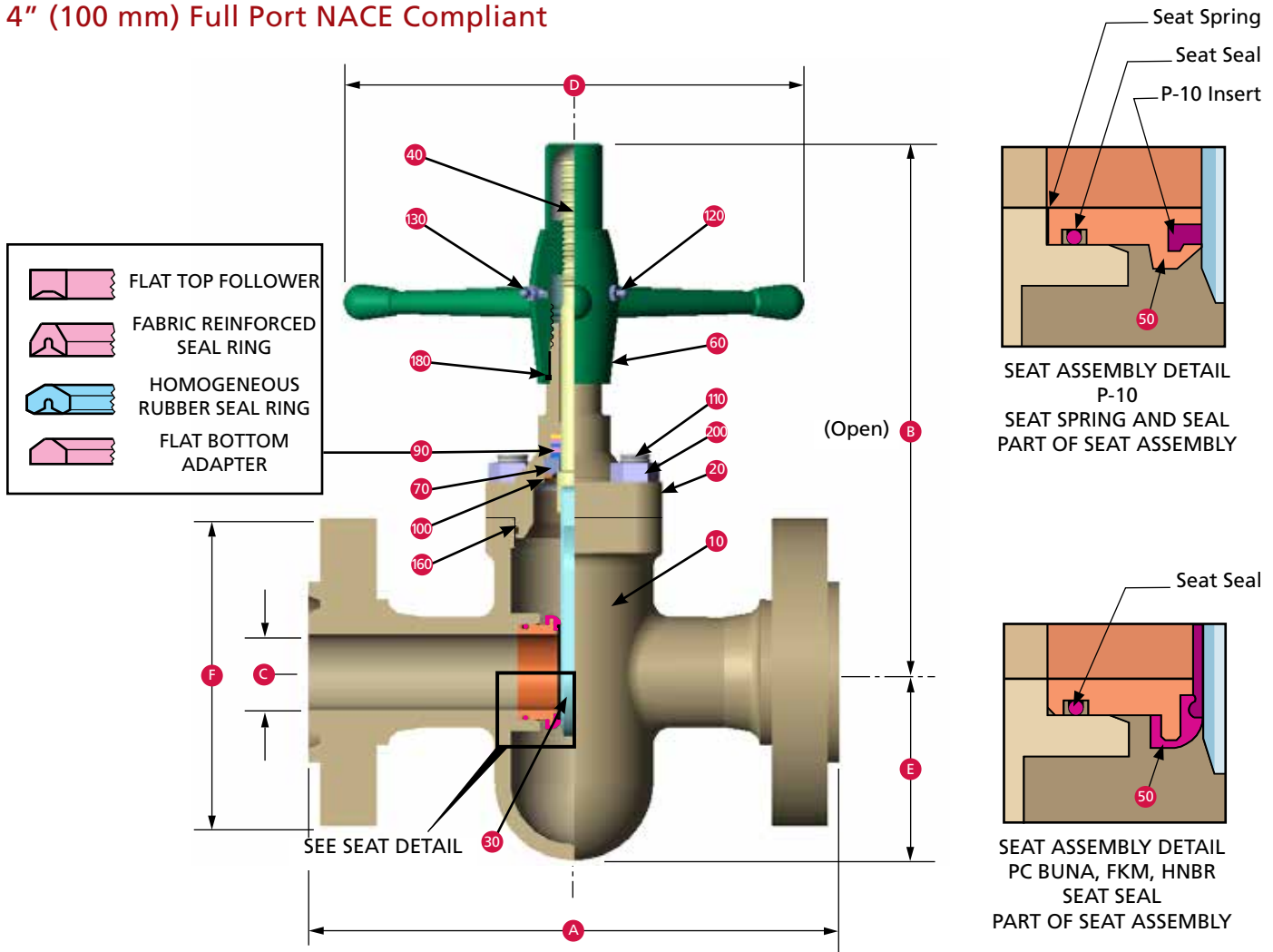
Parts List

Key No.	Qty.	Description	Valve Size: 3" (80 mm) FP			Material Specification (See Note 1)
			ASME Class 600	ASME Class 900	ASME Class 1500	
10	1	Assembly Base Part Number	J025003	J025004	J025005	
20	1	Body	Consult Cameron for Body Part Numbers			Aluminum Bronze ASTM B148 Alloy 955
30	1	Bonnet	J024624-006	J024642-006		Aluminum Bronze ASTM B148 Alloy 955
40	1	Gate	1, 2, 5 6, 7, 8, 9			J024621-008 J024623-008 Stainless Steel CF8M
50	2	Stem	J024620-008	J024820-008		316 SS
		Seat Assembly	2061588-03			Ring: CF8M; Elastomer: Buna-N, Peroxide-Cured, 90 Duro
		(See Note 2)	2061589-03			Ring: CF8M; Elastomer: FKM, 75 Duro
			Consult Cameron for Seat Assy Part Numbers			Ring: CF8M; Elastomer: HBNR, Peroxide-Cured, 80 Duro
			2061590-03			Ring: CF8M; Insert: PEEK; Seal: Buna-N, Peroxide-Cured, 90 Duro
			Consult Cameron for Seat Assembly Part Numbers			Spring: Inconel X-750
			Consult Cameron for Seat Assembly Part Numbers			Ring: CF8M; Insert: PEEK; Seal: HPNR, 90 Duro;
			Consult Cameron for Seat Assembly Part Numbers			Spring: Inconel X-750
			Consult Cameron for Seat Assembly Part Numbers			Ring: CF8M; Insert: PEEK; Seal: FKM, 90 Duro;
			Consult Cameron for Seat Assembly Part Numbers			Spring: Inconel X-750
			Consult Cameron for Seat Assembly Part Numbers			Ring: CF8M; Insert: PEEK; Seal: AFLAS, 90 Duro;
			Consult Cameron for Seat Assembly Part Numbers			Spring: Inconel X-750
60	1	Handle	2139931-01	2139932-01		Ductile Iron ASTM A536 Grade 65-45-12
70	1	Stem Packing Retainer	2060259-08			316 SS
90	1	Stem Seal Assembly	J024882-603			Filled PTFE/Elgiloy
100	1	Retainer Snap Ring	J090066-162			PH 15-7 Mo
110	4	Stud	219066-09-03-21	219066-10-03-61		ASTM A193 B7M/Zinc-Plated
120	1	Lube Fitting	005929-18			Steel
130	1	Relief Fitting	2726258-01			Steel
160	1	Bonnet Seal	1, 6 2, 8 5, 7 9			Buna-N, Peroxide-Cured, 90 Duro
		(See Note 2)	J005520-244 J005521-244			FKM, 90 Duro
			Consult Cameron for Bonnet Seal Part Numbers			HBNR, 90 Duro
			2788035-07			AFLAS
180	1	Handle Seal	J005526-221			Buna-N
200	4	Nut	2709000-09-11	2709000-10-11		ASTM A194 2HM/Zinc-Plated

Notes: 1. CF8M is ASTM A351 Grade CF8M annealed. 316 SS is AISI Type 316 SS annealed.
 2. These parts are keyed to the assembly part number. "Seat insert/seal" code numbers indicated.

SERIES DT GATE VALVES – ASME CLASSES 600, 900, AND 1500

4" (100 mm) Full Port NACE Compliant



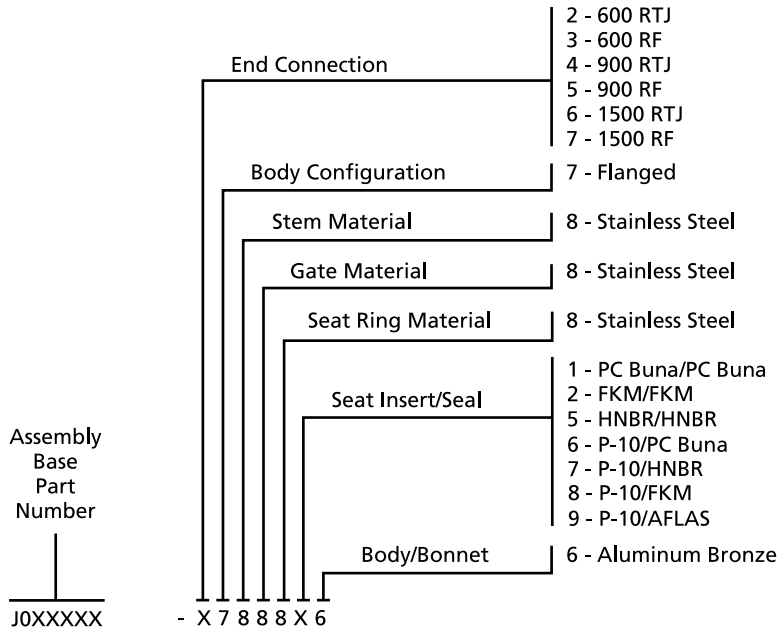
Dimensional Data and Weights

Dimension	Valve Size: 4" (100 mm) FP		
	ASME Class 600	ASME Class 900	ASME Class 1500
A Flanged – RF	17.00 (332)	18.00 (457)	21.50 (546)
Flanged – RTJ	17.12 (435)	18.12 (460)	21.62 (549)
B (Open)	22.25 (565)	22.25 (565)	22.54 (573)
C (Seat Bore)	4.06 (103)	4.06 (103)	4.06 (103)
D	23.00 (584)	23.00 (584)	23.00 (584)
E	9.00 (229)	9.12 (232)	9.41 (239)
F Flange OD	10.75 (273)	11.50 (292)	12.25 (311)
Flange Bolts (Qty., Size: in.)	8 – 7/8	8 – 1-1/8	8 – 1-1/4
Ring Number (RTJ)	R-37	R-37	R-39
Weight lb (kg)			
Flanged	170 (77)	215 (98)	295 (134)

Working Pressure (psi)

End Connection	Material	ASME Class 600	ASME Class 900	ASME Class 1500
Flanged	Bronze	1480	2220	3705

ASSEMBLY PART NUMBER



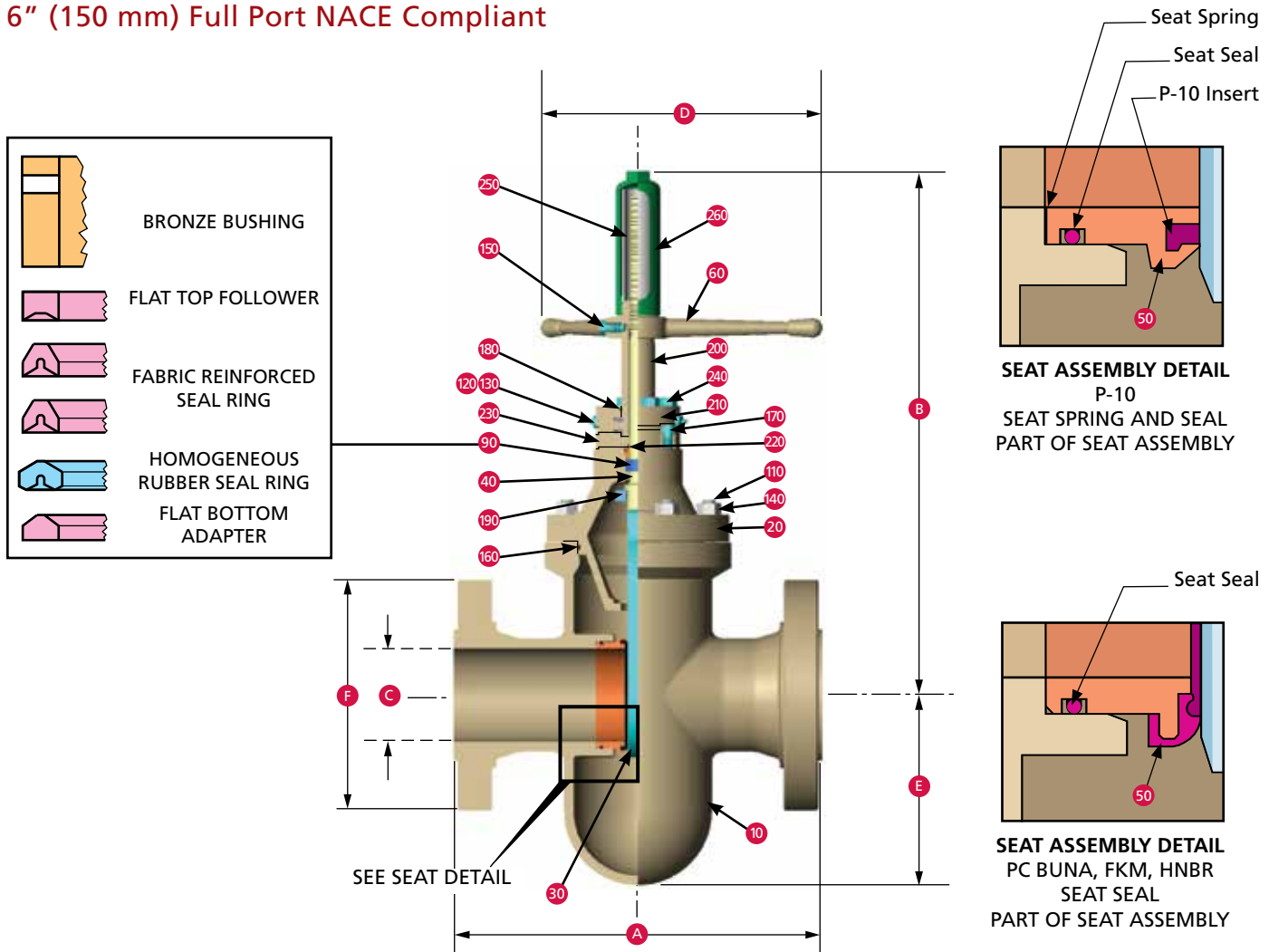
Parts List

Key No.	Qty.	Description	Valve Size: 4" (100 mm) FP			Material Specification (See Note 1)
			ASME Class 600	ASME Class 900	ASME Class 1500	
		Assembly Base Part Number	J025006	J025007	J025008	
10	1	Body - 4"	Consult Cameron for Body Part Numbers			Aluminum Bronze ASTM B148 Alloy 955
20	1	Bonnet	J024711-006	J024712-006	J024713-006	Aluminum Bronze ASTM B148 Alloy 955
30	1	Gate (See Note 2)	J024719-008 6, 7, 8, 9	J024721-008 J024720-008	J024722-008 J024717-008	Stainless Steel CF8M
40	1	Stem		J024717-008	J024718-008	316 SS - 600 and 900 Only; XM-19 1500 Only
50	2	Seat Assembly (See Note 2)	1 2 5 6 7 8 9	2061588-04 2061589-04 Consult Cameron for Seat Assembly Part Numbers 2061587-04		Ring: CF8M; Elastomer: Buna-N, Peroxide-Cured, 90 Duro Ring: CF8M; Elastomer: FKM, 75 Duro Ring: CF8M; Elastomer: HBNR, Peroxide-Cured, 80 Duro Ring: CF8M; Insert: PEEK; Seal: Buna-N, Peroxide-Cured, 90 Duro Spring: Inconel X-750 Ring: CF8M; Insert: PEEK; Seal: HNBR, 90 Duro Spring: Inconel X-750 Ring: CF8M; Insert: PEEK; Seal: FKM, 90 Duro Spring: Inconel X-750 Ring: CF8M; Insert: PEEK; Seal: AFLAS, 90 Duro Spring: Inconel X-750
60	1	Handle		2139933-01		Ductile Iron ASTM A536 Grade 65-45-12
70	1	Stem Packing Retainer		J024716-008		316 SS
90	1	Stem Seal Assembly		J024882-604		Teflon/Elgiloy
100	1	Retainer Snap Ring		J090066-175		PH 15-7 Mo
110	4	Stud	219066-08-02-61	219066-09-03-21	219066-11-04-21	ASTM A193 B7M/Zinc-Plated
120	1	Lube Fitting		005929-18		Steel
130	1	Relief Fitting		2726258-01		Steel
160	1	Bonnet Seal (See Note 2)	1, 6 2, 8 5, 7 9	J005520-254 J005521-254 Consult Cameron for Bonnet Seal Part Numbers		Buna-N, Peroxide-Cured, 90 Duro FKM, 90 Duro HBNR, 90 Duro AFLAS
180	1	Handle Seal		J005526-223		Buna-N
200	4	Nut	2709000-08-11	2709000-09-11	2709000-11-11	ASTM A194 2HM/Zinc-Plated

Notes: 1. CF8M is ASTM A351 Grade CF8M annealed. 316 SS is AISI Type 316 SS annealed.
2. These parts are keyed to the assembly part number. "Seat insert/seal" code numbers indicated.

SERIES DT GATE VALVES – ASME CLASS 900

6" (150 mm) Full Port NACE Compliant



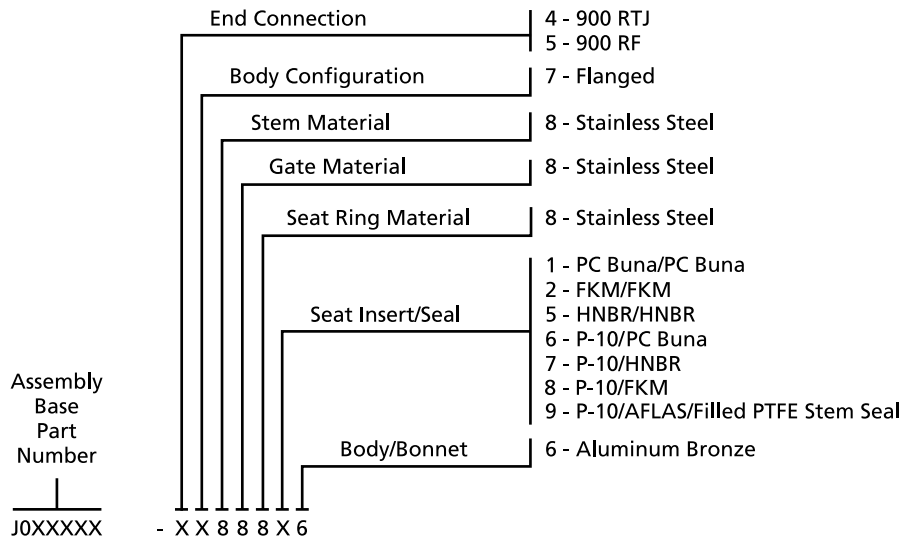
Dimensional Data and Weights

Dimension		Valve Size: 6" (150 mm) FP ASME Class 900
A	Flanged – RF	24.00 (610)
	Flanged – RTJ	24.12 (613)
B	(Open)	33.85 (860)
C	(Seat Bore)	6.06 (154)
D		24.00 (610)
E		12.38 (314)
F	Flange OD	15.00 (381)
	Flange Bolts (Qty., Size: in.)	12 – 1-1/8
	Ring Number (RTJ)	R-45
Weight lb (kg)		
Flanged		Consult Cameron

Working Pressure (psi)

End Connection	Material	ASME Class 900
Flanged	Bronze	2220

ASSEMBLY PART NUMBER



Parts List

Key No.	Qty.	Description	Valve Size: 6" (150 mm) FP	
			ASME Class 900	Material Specification (See Note 1)
		Assembly Base Part Number	J025150	
10	1	Body 6" (150 mm) RF – AL BRZ RTJ – AL BRZ	2227657-00-56 2227657-00-46	Aluminum Bronze ASTM B148 Alloy 955
20	1	Bonnet AL BRZ	2227661-06	Aluminum Bronze ASTM B148 Alloy 955
30	1	Gate 1, 2, 5 (See Note 2) 6, 7, 8, 9	2227658-08 2227964-08	Stainless Steel CF8M on 900; Duplex UNS S31803 on 1500
40	1	Stem	2227666-08	316 SS on 900
50	2	Seat Assembly (See Note 2)	1 2061588-06 2 2061589-06 5 Consult Cameron for Part Number 6 2061590-06 7 Consult Cameron for Part Number 8 Consult Cameron for Part Number 9 Consult Cameron for Part Number	Ring: CF8M; Elastomer: Buna-N, Peroxide-Cured, 90 Duro Ring: CF8M; Elastomer: FKM, 75 Duro Ring: CF8M; Elastomer: HNBR, Peroxide-Cured, 80 Duro Ring: CF8M; Insert: PEEK; Seal: Buna-N, Peroxide-Cured, 90 Duro Spring: Inconel X-750 Ring: CF8M; Insert: PEEK; Seal: HNBR, 90 Duro; Spring: Inconel X-750 Ring: CF8M; Insert: PEEK; Seal: FKM, 90 Duro; Spring: Inconel X-750 Ring: CF8M; Insert: PEEK; Seal: AFLAS, 90 Duro; Spring: Inconel X-750
60	1	Handle	2227656-01	Ductile Iron ASTM A536 Grade 65-45-12
90	1	Stem Seal Assembly (See Note 2)	1, 6 J021706-001 2, 8 J015853-006 5, 7 J015853-008	Buna-N, Peroxide-Cured, 90 Duro FKM, 90 Duro HNBR, 90 Duro
110	8	Stud	2119066-09-04-21	ASTM A193 B7M/Zinc-Plated
120	1	Lube Fitting	005929-18	Steel
130	1	Relief Fitting	005929-18	Steel
140	8	Nut	2709000-09-11	ASTM A194 2HM/ Zinc-Plated
150	1	Screw – Handle	J014832	Steel AISI C1018
160	1	Body Seal (See Note 2)	1, 6 J005520-367 2, 8 J005521-367 5, 7 2738507-15 9 2788035-11	Buna-N, Peroxide-Cured, 90 Duro FKM, 90 Duro HNBR, 90 Duro AFLAS, 90 Duro
170	4	Screw – Retainer	702589-14-00-16	Alloy Steel
180	1	Stem Screw Seal	J005526-228	Buna-N on 900
190	1	Downstop Ring	J015848	316 SS
200	1	Stem Screw with Bearings	J023888	Stem Screw with Steel AISI C1018 Bearings: Hardened Steel Needle Thrust Bearings
210	1	Housing	J015332	Steel AISI C1018
220	1	Secondary Seal (See Note 2)	1, 6 J005526-216 2, 8 J005531-216 5, 7, 9 2738507-09	Buna-N, 70 Duro FKM, 75 Duro HNBR, 90 Duro
230	1	Retainer	J015330-101	Steel AISI C1018
240	4	Screw – Housing	J056511-32056	ASTM A193 B7M/ Zinc-Plated
250	1	Tube	J019160	Clear Acrylic
260	1	Stem Cap	J019161	Ductile Iron ASTM A536 Grade 65-45-12

Notes: 1. CF8M is ASTM A351 Grade CF8M annealed. XM-19 is ASTM A479 Type XM-19 hot rolled.
2. These parts are keyed to the assembly part number. "Seat insert/seal" code numbers indicated.

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