


# C-Rex™ Valve



  
*Engineering  
GREAT Solutions*

**The Original Double Offset  
Segmented Ball Valve**

# The Double Offset C-Rex™ Valve

Our Ball Valves are designed as a solution for critical service applications, combining the advantages of main critical service valve designs while eliminating their weakness or design limitations. This makes them ideal to meet the most stringent requirements in critical applications such as oil and gas, chemical, petrochemical, mining, liquified natural gas (LNG).

## Key features

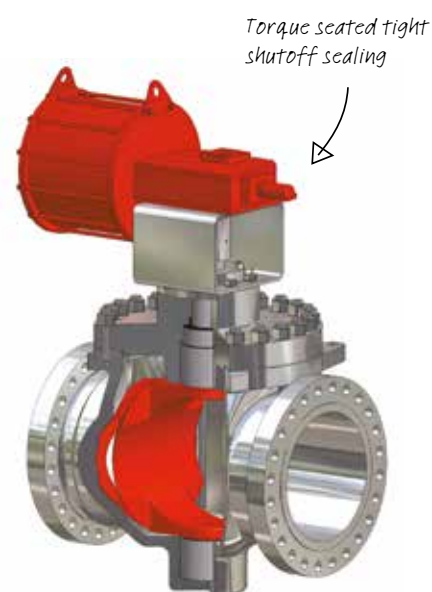
- > Engineered for excellence in the most demanding services
  - High cycle service
  - Emergency shut down
  - High solid and slurry media content
  - High temperature
  - Cryogenic
- > Fast closing/trip valve
  - Corrosive media
  - Control
- > Top entry for in-line maintenance

## Benefits

- > Top entry - Provides easy access to valve internals allowing for easy in line maintenance
- > Double eccentric - Provides minimal rubbing between seating elements during travel, reducing torque, friction and wear and extending service life
- > Quarter turn - Allows for simple and effective automation using common quarter turn gears, motors, pneumatic or hydraulic actuators
- > Segmented ball - Allows for isolation or control from one single valve design with high Cv characteristics
- > Full hard face coating - Tungsten or chromium carbide coating on both the inner and outer surfaces of the ball provide the most durable hard surface available, perfect for severe service applications
- > Field replaceable seat - Stellite or other hard face coating is both durable and field maintainable
- > Torque seated - Provides bi-directional tight shutoff
- > Simple design - Fewer parts mean lower operational costs and easier less frequent maintenance
- > Cavity free - Body over pressurization is completely impossible

## Critical applications

- > Mol Sieves
- > Refinery
- > Slurry Service
- > Coal Gas
- > Pulp & Paper
- > Oil Sands
- > Mining
- > Hydrocarbons
- > Liquified Natural Gas
- > Oil & Gas



## Product specification & dimensions

**Quality**  
ISO 9001

**Design**  
ASME B16.34  
API 6D & 6A

**Face to face**  
ANSI B16.10

**Testing**  
API 598  
ISO 5808  
FCI 70-2 V and VI

**Firetest**  
ISO 10497  
API 607

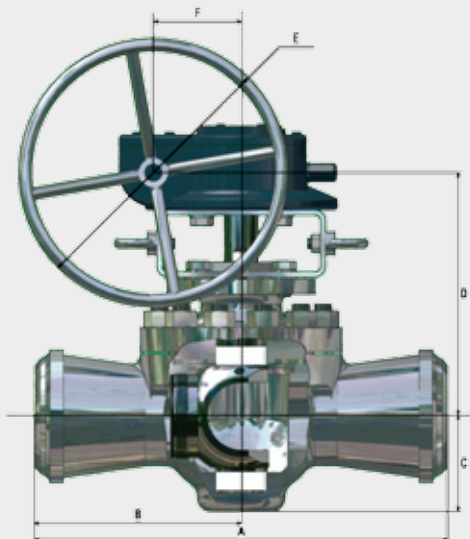
**Fugitive emissions**  
ISO 15848

**Size**  
1" to 40"

**Class**  
ASME 150 - 2500  
API 2000 - 20000

**Ends**  
Double flanged  
Butt-weld ends  
Clamped ends  
Compact flanged  
Special hub ends  
Combinations

**Temperature range**  
196°C to +650°C  
-321°F to +1200°F



**Class 150**

DN	A	B	C	D	E	F
2"	178	89	76	263	500	-
3"	283	141.5	95	276	300	69
4"	229	114.5	114	349	300	69
6"	394	197	180	427	500	84
8"	457	228.5	212	518	500	211
10"	533	266.5	260	570	400	137
12"	610	305	300	566	500	138

**Class 300**

DN	A	B	C	D	E	F
2"	216	108	82.5	214	500	-
3"	283	141.5	105	296	400	71
4"	305	152.5	127	378	500	97
6"	403	201.5	183	477	600	138
8"	502	251	212	561	600	138
10"	568	284	260	660	400	138
12"	648	324	310	646	600	180

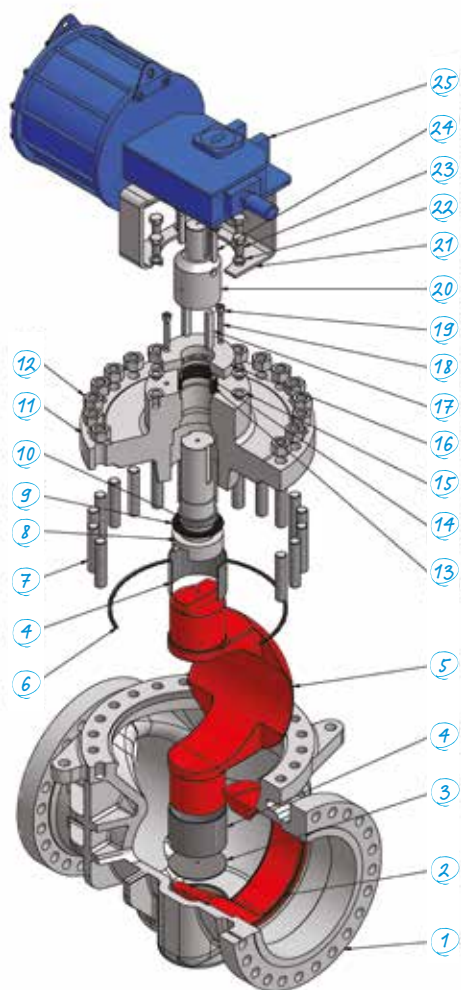
**Class 600**

DN	A	B	C	D	E	F
2"	294	147	86	267	750	-
3"	356	178	110	313	400	71
4"	432	216	137	359	600	105
6"	559	279.5	195	463	500	130
8"	660	330	230	619	600	140
10"	787	393.5	267	724	600	134
12"	838	419	320	771	600	180

**Class 900**

DN	A	B	C	D	E	F
2"	368	184	108	344	300	71
3"	383	191.5	122	342	500	86
4"	457	228.5	147	471	600	211
6"	610	305	195	488	500	130
8"	740	370	250	580	600	180
10"	841	420.5	300	656	600	253
12"	968	484	342	709	600	253

## Bill of material



IT	QTY	DESCRIPTION
1	1	BODY
2	1	SEAT
3	1	BALL SUPPORT
4	2	TRUNION BEARING
5	1	C-BALL
6	1	GASKET
7	24	STUD
8	1	STEM
9	1	STEM BEARING
10	1	STEM BUSHING
11	1	BONNET
12	24	NUT
13	3	PACKING RING
14	1	PACKING FOLLOWER
15	8	WASHER
16	1	PACKING FLANGE
17	2	KEY
18	3	STUD
19	3	NUT
20	1	ADAPTOR
21	1	BRACKET
22	8	WASHER
23	8	SCREW
24	2	KEY
25	1	ACTUATOR

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