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**BALL VALVES ASME LCV SERIES**  
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Trueline Distribution was formed on a solid engineering foundation. Key management personnel individually possess over thirty years experience in the valve industry including knowledge of processes and applications which are problematic to our customers. With decades of experience and the highly recognized TL brand, Trueline Distribution is furnishing specially engineered products for the most demanding customer applications. We supply our products and expertise to various industries such as Petrochemical, Oil and Gas, Mining, Pulp and Paper.

Innovative and proprietary products result in a specially designed custom product line addressing major market needs which to date is unfulfilled by the competition.

Our goal is to develop a loyal customer base by providing valve solutions that result in a maximum return on investment by optimizing production efficiency. This is achieved by providing expert knowledge and custom products that minimize disruptions in production due to frequent valve replacements.

ASME LCV SERIES are cost effective range of Trueline Distribution quality ball valves, yet providing excellent performance and reliability. These products will be marketed through existing, well established, distribution networks which have been developed over the last several decades by Trueline Valve Corporation and JC-TL Ball Valve Corp.



## 2-PIECE FULL BORE | BALL VALVES

### DESIGN

Ball Valves are of a two piece construction and have a solid full bore ball. Relevant design standards are EN ISO 17292, ASME B16.34 and API 608.

### MATERIALS

Carbon steel (ASTM A 216 WCB) and stainless steel (ASTM A351 CF8M) are the materials which form the standard supply.

### ■ FLANGES

Ball Valves are in accordance with ASME B16.5 RF. Flange facings have a finish to RA 3.2 - 6.3.

### ■ NACE

As standard all Ball Valves comply with NACE MR0175.

### ■ MATERIAL AND TEST CERTIFICATES

All flanged Ball Valves can be supplied with EN 10204-3.1 test and material certification.

### ■ OPERATION

As standard, Ball Valves are supplied with Nodular Iron wrench (DN 15 - DN 80) and with pipe extension wrench from DN 100 to DN 200. All hand levers are lockable in open or closed position. Where extra security is required a padlock should be fitted to lock the valve in the open or closed position.

### GENERAL CHARACTERISTICS

GENERAL CHARACTERISTICS	Carbon Steel And Stainless Steel Material Construction		
<b>STANDARDS COMPLIANCE</b>			
Valves design	ISO 17292	ASME B16.34	EN 1983
Body design	ISO 17292		
Shell thickness	ASME B16.34		
Flanges	ASME B16.5 Raised Face		
Face to Face	ASME B16.10 (Long Pattern)	EN 558-2 Series 3.2 & 12	
Actuator mounting flange	ISO 5211	EN 15081	
Wetted parts materials and bolting	NACE MR.01.75		
Shell finishing quality	MSS SP 55		
Marking	ISO 17292	CE-PED	EN 19
<b>TESTS AND CERTIFICATES</b>			
Quality Assurance	ISO 9001:2000	CE-PED	
Fire Safe design	ISO 10497:2004		
Pressure testing	API 598	EN 12266	
Other	ISO 14001	ATEX	



**BALL VALVE  
PN 20  
CLASS 150**

DN 15 - 200 (1/2" - 8")

**Construction:**

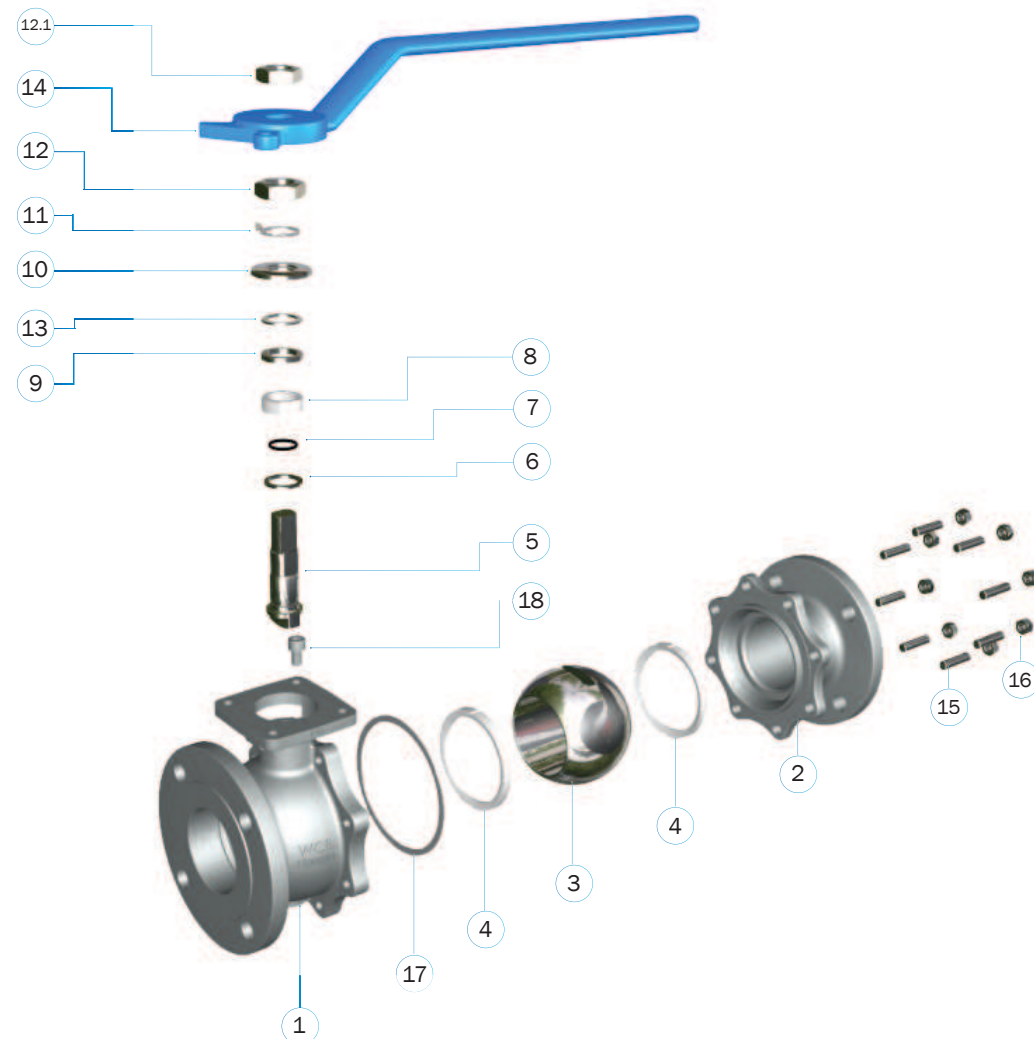
FIG.315 Carbon Steel

FIG.415 Stainless Steel

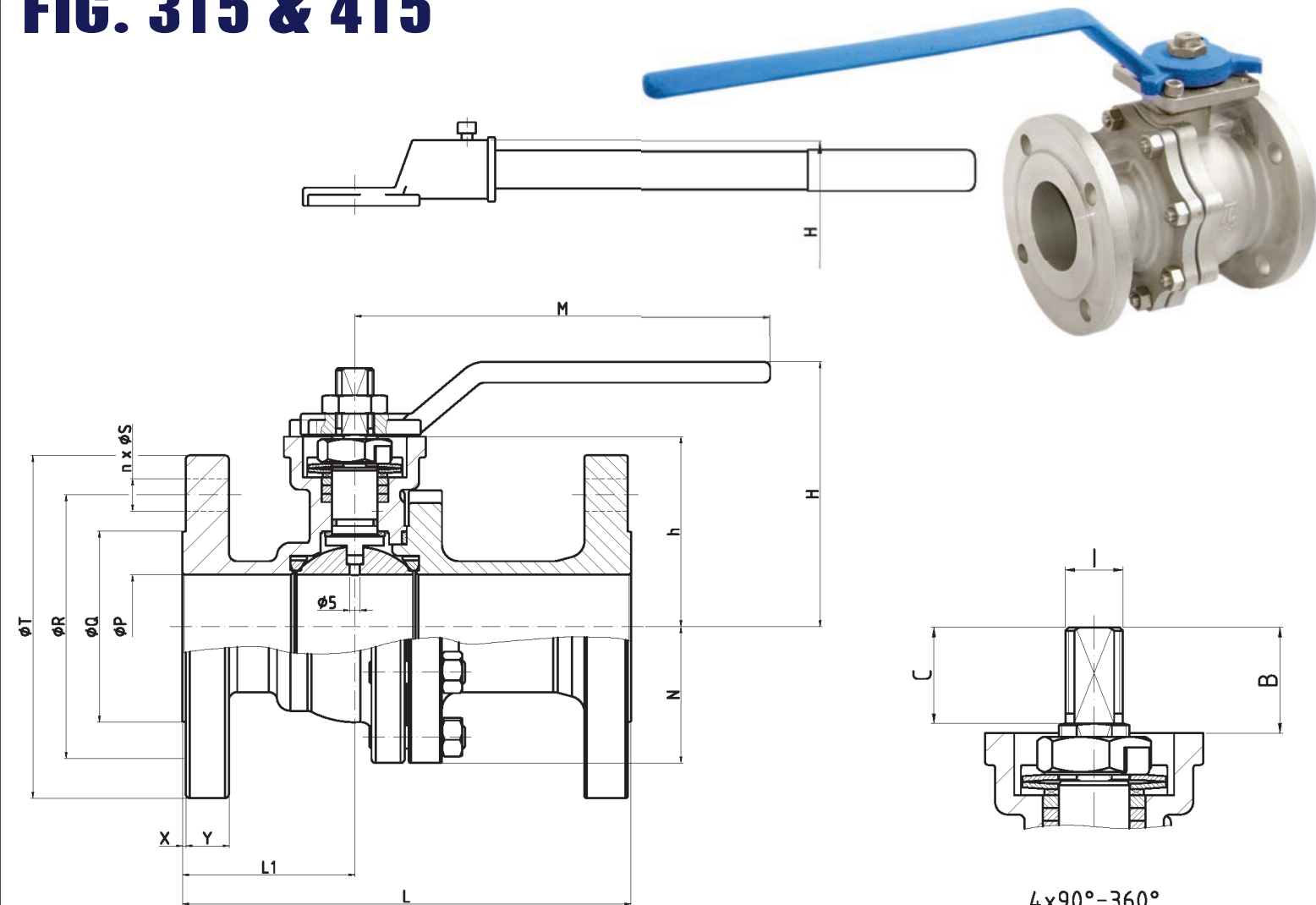
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**ASME LCV SERIES 2-PIECE FULL BORE BALL VALVES**

ITEM	DESCRIPTION	FIG. 315 AITFM	FIG. 415 IITFM
1	BODY	A 216 GR. WCB (C ≤ 0.25 %)	A 351 GR. CF8M
2	BODY CONNECTOR	A 216 GR. WCB ( )	A 351 GR. CF8M
3	BALL	A 351 GR. CF8M (DN 15 ~ 25 A479 Tp.316)	
4	SEAT RING	TFM-1600	
5	STEM	A 479 Tp.316	
6	STEM THRUST SEAL	25% G.F. PTFE	
7	"O" RING	FKM	
8	GLAND PACKING	GRAPHITE	
9	GLAND	AISI 303	
10	DISK SPRING	E.N.P CARBON STEEL	
11	LOCKING WASHER	AISI 304	
12	GLAND NUT	AISI 303	
12.1	NUT	AISI 303	
13	ANTIFRICTION WASHER	25% G.F. PTFE	
14	WRENCH	NODULAR IRON	
15	STUD	A 193 GR. B7M	A 193 GR. B8M
16	NUT	A 194 GR. 2HM	A 194 GR. 8M
17	SPIRAL WOUND GASKET	AISI 316L + PTFE + GRAPHITE	
18	BOLT	A2	
19	IDENTIFICATION PLATE	STAINLESS STEEL	



**FIG. 315 & 415**

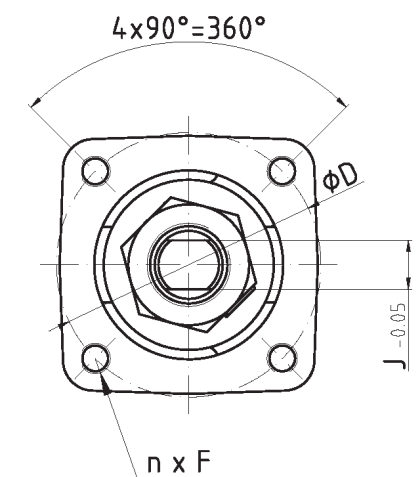


**Actuator connection**

DN	ISO 5211	B	C	ØD	n x F	I	J
15 (1/2")	F 05	0.7"	0.4"	2"	4xM6	M10	0.276"
20 (3/4")	F 05	0.7"	0.4"	2"	4xM6	M10	0.276"
25 (1")	F 05	0.9"	0.8"	2"	4xM6	M12	0.315"
40 (1 1/2")	F 07	1.3"	1.3"	2.8"	4xM8	M18	0.472"
50 (2")	F 07	1.3"	1.3"	2.8"	4xM8	M18	0.472"
65 (2 1/2")	F 07	1.4"	1.3"	2.8"	4xM8	M22	0.591"
80 (3")	F 10	1.4"	1.3"	4.0"	4xM10	M22	0.591"
100 (4")	F 10	1.8"	1.7"	4.0"	4xM10	M28	0.748"
150 (6")	F 12	2.2"	2.2"	4.9"	4xM12	M36	0.945"
200 (8")	F 14	2.7"	2.6"	5.5"	4xM16	M48	1.26"

**Dimensions (Class 150)**

DN	ØP	L	L1	ØQ	ØR	n x ØS	ØT	X	Y	h	N	H	M	Weight
15 (1/2")	1/2"	4.3"	1.9"	1.4"	2.4"	4 x 0.62"	3.5"	0.06"	0.4"	1.6"	1.2"	2.7"	6.7"	4.0
20 (3/4")	3/4"	4.6"	2.0"	1.7"	2.7"	4 x 0.62"	3.9"	0.06"	0.4"	1.7"	1.3"	2.8"	6.7"	5.0
25 (1")	1"	5.0"	2.0"	2.0"	3.1"	4 x 0.62"	4.3"	0.06"	0.4"	2.3"	1.5"	3.4"	6.7"	6.0
40 (1 1/2")	1 1/2"	6.5"	2.6"	2.9"	3.9"	4 x 0.62"	5.0"	0.06"	0.5"	3.4"	1.9"	4.8"	7.9"	13.0
50 (2")	2"	7.0"	2.4"	3.6"	4.8"	4 x 0.75"	6.0"	0.06"	0.6"	3.6"	2.5"	5.0"	7.9"	19.0
65 (2 1/2")	2 1/2"	7.5"	3.0"	4.1"	5.5"	4 x 0.75"	7.0"	0.06"	0.6"	4.1"	3.1"	5.5"	13.8"	29.0
80 (3")	3"	8.0"	3.1"	5.0"	6.0"	4 x 0.75"	7.5"	0.06"	0.7"	4.7"	3.4"	3.5"	17.7"	41.0
100 (4")	4"	9.0"	3.5"	6.2"	7.5"	8 x 0.75"	9.0"	0.06"	0.9"	5.7"	4.3"	7.6"	18.4"	65.0
150 (6")	6"	15.5"	6.9"	8.5"	9.5"	8 x 0.87"	11.0"	0.06"	0.9"	8.0"	6.0"	10.2"	30.5"	142.0
200 (8")	8"	18.0"	8.2"	10.6"	11.8"	8 x 0.87"	13.5"	0.06"	1.1"	9.8"	8.0"	12.6"	33.3"	271.0





**BALL VALVE  
PN 50  
CLASS 300**

DN 15 - 200 (1/2" - 8")

**Construction:**

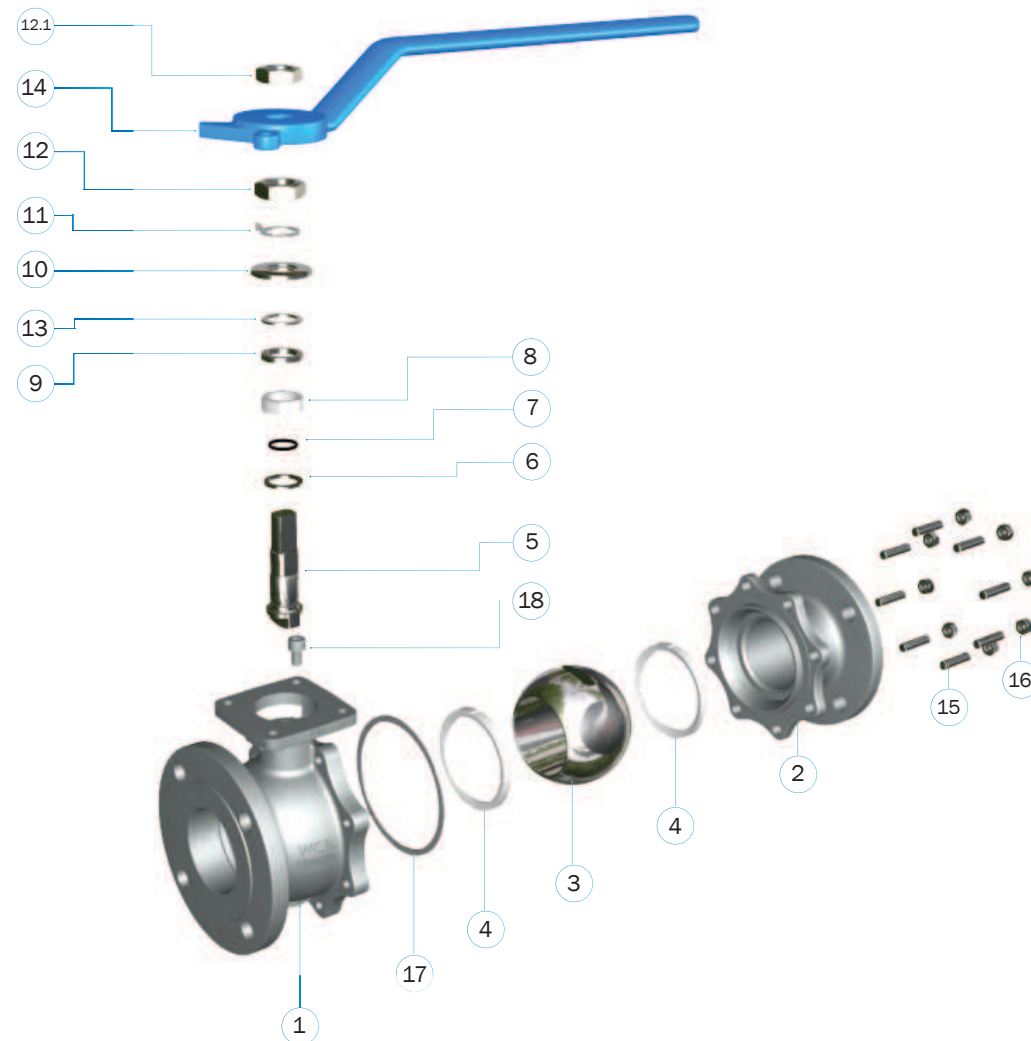
FIG.330 Carbon Steel

FIG.430 Stainless Steel

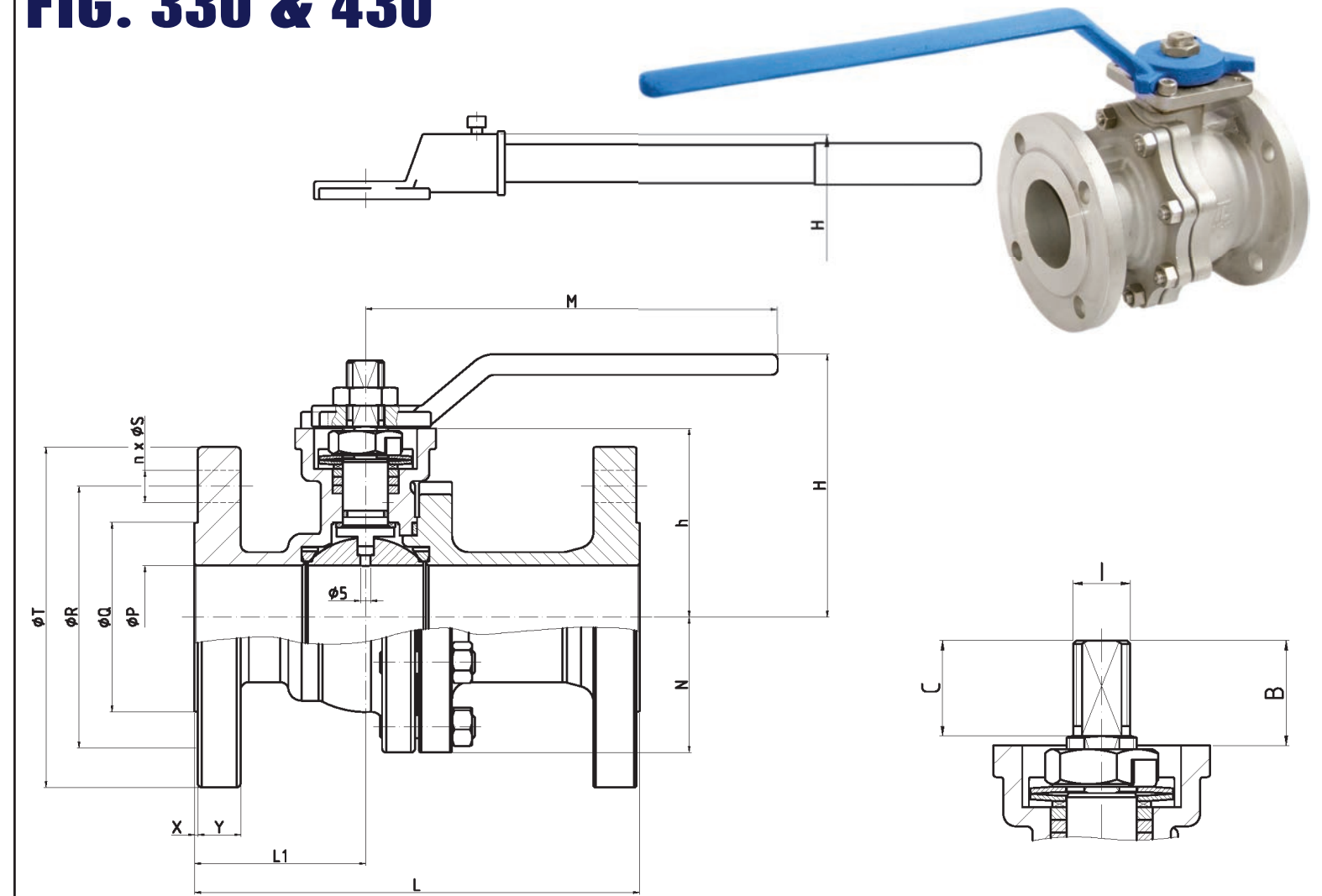
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**ASME LCV SERIES 2-PIECE FULL BORE BALL VALVES**

ITEM	DESCRIPTION	FIG. 330 AITFM	FIG. 430 IITFM
1	BODY	A 216 GR. WCB (C ≤ 0.25%)	A 351 GR. CF8M
2	BODY CONNECTOR	A 216 GR. WCB ( )	A 351 GR. CF8M
3	BALL	A 351 GR. CF8M (DN 15 ~ 25 A479 Tp.316)	
4	SEAT RING	TFM-1600	
5	STEM	A479 Tp.316	
6	STEM THRUST SEAL	25% G.F. PTFE	
7	"O" RING	FKM	
8	GLAND PACKING	GRAPHITE	
9	GLAND	AISI 303	
10	DISK SPRING	E.N.P CARBON STEEL	
11	LOCKING WASHER	AISI 304	
12	GLAND NUT	AISI 303	
12.1	NUT	AISI 303	
13	ANTIFRICTION WASHER	25% G.F. PTFE	
14	WRENCH	NODULAR IRON	
15	STUD	A 193 GR. B7M	A 193 GR. B8M
16	NUT	A 194 GR. 2HM	A 194 GR. 8M
17	SPIRAL WOUND GASKET	AISI 316L + PTFE + GRAPHITE	
18	BOLT	A2	
19	IDENTIFICATION PLATE	STAINLESS STEEL	



**FIG. 330 & 430**

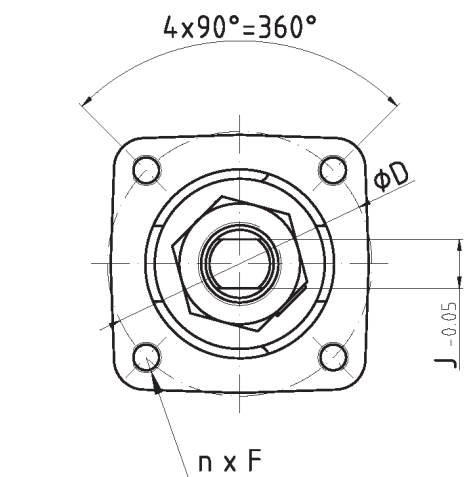


**Actuator connection**

DN	ISO 5211	B	C	ØD	n x F	I	J
15 (1/2")	F 05	0.7"	0.4"	2"	4xM6	M10	0.276"
20 (3/4")	F 05	0.7"	0.4"	2"	4xM6	M10	0.276"
25 (1")	F 05	0.9"	0.8"	2"	4xM6	M12	0.315"
40 (1 1/2")	F 07	1.3"	1.3"	2.8"	4xM8	M18	0.472"
50 (2")	F 07	1.3"	1.3"	2.8"	4xM8	M18	0.472"
80 (3")	F 10	1.4"	1.3"	4.0"	4xM10	M22	0.591"
100 (4")	F 10	1.8"	1.7"	4.0"	4xM10	M28	0.748"
150 (6")	F 12	2.2"	2.2"	4.9"	4xM12	M36	0.945"
200 (8")	F 14	2.7"	2.6"	5.5"	4xM16	M48	1.26"

**Dimensions (Class 300)**

DN	ØP	L	L1	ØQ	ØR	n x ØS	ØT	X	Y	h	N	H	M	Weight
15 (1/2")	1/2"	5.5"	2.4"	1.4"	2.6"	4 x 0.62"	3.7"	0.06"	0.5"	1.6"	1.2"	2.7"	6.7"	5
20 (3/4")	3/4"	6.0"	2.6"	1.7"	3.3"	4 x 0.75"	4.6"	0.06"	0.6"	1.7"	1.3"	2.8"	6.7"	8
25 (1")	1"	6.5"	2.8"	2.0"	3.5"	4 x 0.75"	4.9"	0.06"	0.6"	2.3"	1.5"	3.4"	6.7"	10
40 (1 1/2")	1 1/2"	7.5"	3.2"	2.9"	4.5"	4 x 0.87"	6.1"	0.06"	0.8"	3.4"	1.9"	4.8"	7.9"	20
50 (2")	2"	8.5"	3.3"	3.6"	5.0"	8 x 0.75"	6.5"	0.06"	0.8"	3.6"	2.5"	5.0"	7.9"	25
80 (3")	3"	11.1"	4.7"	5.0"	6.6"	8 x 0.87"	8.3"	0.06"	1.1"	4.7"	3.4"	7.5"	17.7"	55
100 (4")	4"	12.0"	5.2"	6.2"	7.9"	8 x 0.87"	10.0"	0.06"	1.2"	5.7"	4.3"	7.6"	18.3"	87
150 (6")	6"	16.0"	6.3"	8.5"	6.7"	12 x 0.87"	12.5"	0.06"	1.4"	8.0"	6.0"	10.2"	30.5"	194
200 (8")	8"	19.8"	9.4"	10.6"	13.0"	12 x 1.0"	15.0"	0.06"	1.6"	9.8"	8.0"	12.6"	33.3"	354



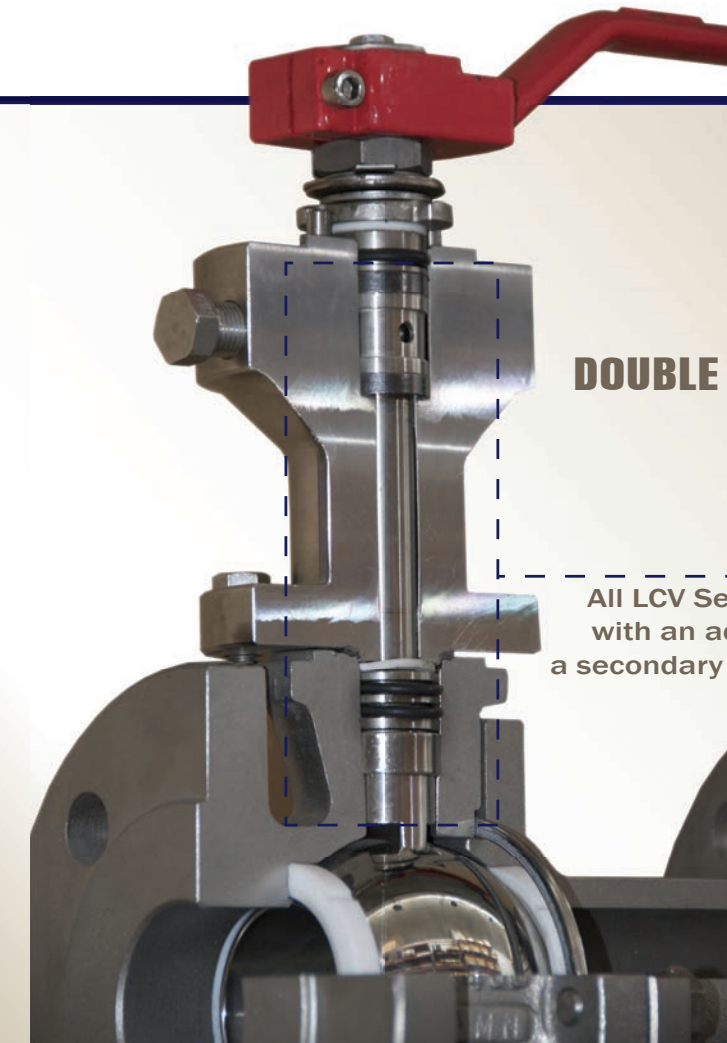
# SPECIAL OPTIONS



**GEAR BOX**

**STEM EXTENSIONS**

**ELECTRIC / PNEUMATIC ACTUATOR**

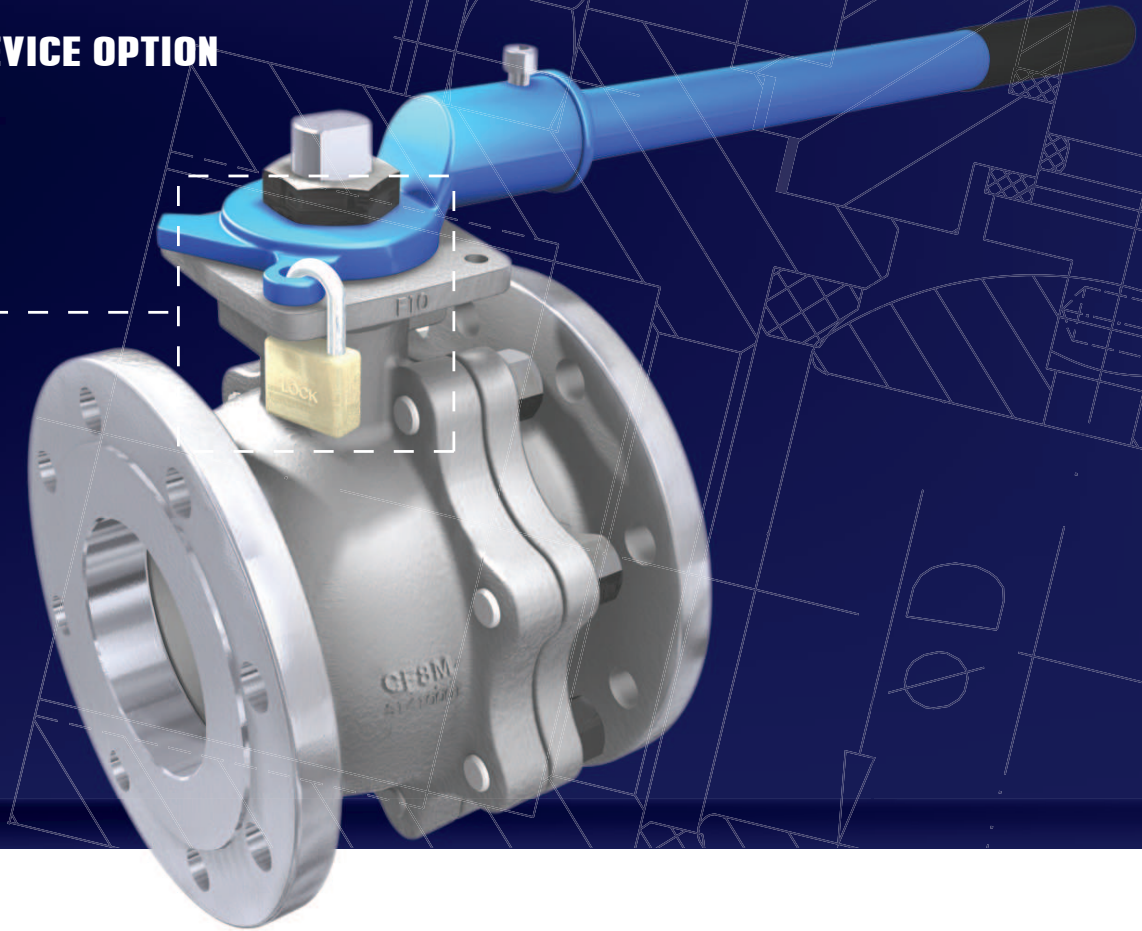


## DOUBLE PACKING

All LCV Series Valves can be supplied with an additional bonnet containing a secondary packing and threaded hole to connect a leak detector.

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## LOCKING DEVICE OPTION



Optional metal seats



HT-65 : Proprietary infusion treatment

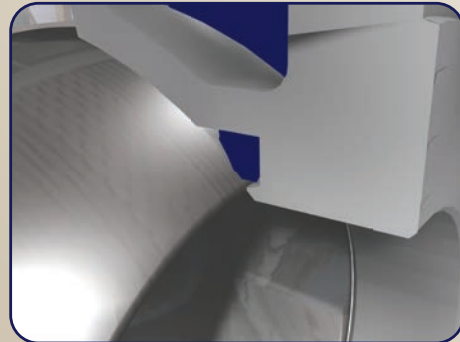
CR66 : New process which enhances corrosion Capabilities of base material



Our products are also available with Tru-Hard (TH66), Tru-Therm (TT99) and PEEK seats (Polyetheretherketone).

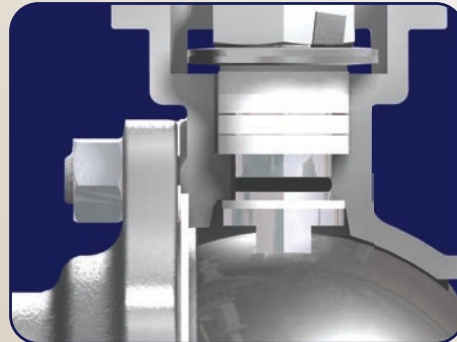
# FEATURES

## FIRE SAFE



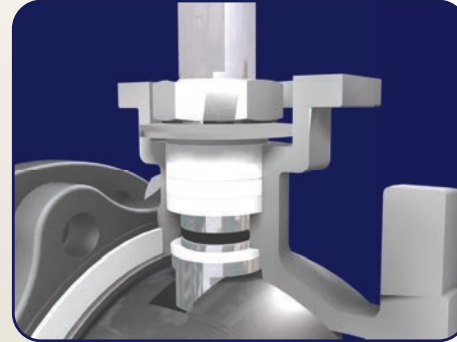
Ball Valves are fire-safe tested and certified according to ISO10497:2004-API 607 5<sup>th</sup> edition.

## FUGITIVE EMISSIONS



Ball Valves have been fugitive emissions type tested to ISO 15848-1.

## ANTI-STATIC & ATEX



Antistatic devices are built in the valve stem to ensure electrical continuity between ball, stem and body. The possibility of ignition of the fluid flowing across the valve is avoided. Our ball valves also meet ATEX Directive 94/9/EC Group II Category 2 and are suitable to be installed in zones 1, 2, 21 and 22. (ATEX marking Ex II 2 GD c)

# TECHNICAL DATA

## TORQUE & Cv

### Cv Values in Gallons/min

DN 15 (1/2")	DN 20 (3/4")	DN 25 (1")	DN 40 (1 1/2")	DN 50 (2")
23	46	87	197	312
DN 65 (2 1/2")	DN 80 (3")	DN 100 (4")	DN 150 (6")	DN 200 (8")
636	1,156	1,907	4,855	10,404

### Torque Values in ft lbf

VALVE SIZE	AT DIFFERENTIAL PRESSURE	
	Class 150	Class 300
	300 PSI	750 PSI
DN 15 (1/2")	4	7
DN 20 (3/4")	6	10
DN 25 (1")	9	13
DN 40 (1 1/2")	16	22
DN 50 (2")	27	36
DN 65 (2 1/2")	37	****
DN 80 (3")	58	100
DN 100 (4")	96	125
DN 150 (6")	162	227
DN 200 (8")	465	575



## PRESSURE | TEMPERATURE RATING

For A216 Gr. WCB & A351 Gr. CF8M only. For other materials consult ASME B16.34

