



Valves made of cast have a great metallurgy manufacturing flexibility and strong variability and have been through the years the most cost-efficient way of manufacture for industrial valves in the global market. D-LINE® Check Valves are fully designed to comply with the requirements of standards such as ASME B16.34, API standards and others.

APPLICATIONS

D-LINE® Check Valves serve multi-national end users in a wide range of applications in many industries including:







- Water treatment
- Food industries
- Mining
- Pharmaceutical
- Oil refinery industries
- Chemical & Petrochemical
- Ship building industries

DESIGN FEATURES

- Swing check type
- Face to face to per ANSI B16.10
- Flange dimensions to per ASME B16.5
- Shell wall thickness to per ASME B16.34
- Valve design to per BS 1868
- Epoxy painted
- Universal trim 8
- Metal seat

TEST SPECIFICATION			
TEST ACCORDANCE TO PER API 598			
CLASS	150	300	600
NOMINAL PRESSURE	285PSI	740PSI	1440PSI
SHELL TEST (WATER)	450PSI	1125PSI	2225PSI
SEAT TEST (WATER)	315PSI	815PSI	1630PSI
AIR TEST	80PSI	80PSI	80PSI

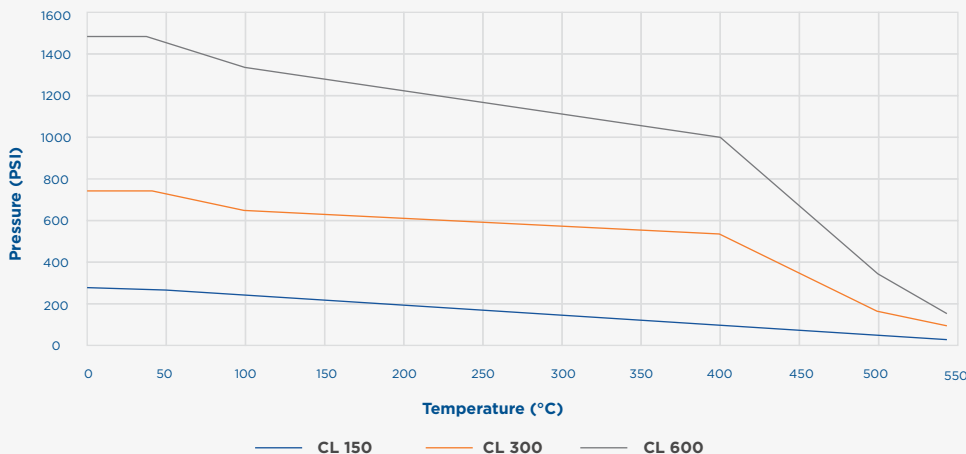
FEATURES	
SIZE	2" - 24"
CLASS	150/300/600
CONNECTION	FLANGED RF
TEMPERATURE	-29°C TO 538°C

MARKING BODY		
2118F	2318F	2618F
		
2	2	2
150	300	600
WCB	WCB	WCB
		

PRESSURE - TEMPERATURE RATING

These are conservative guide for general service.

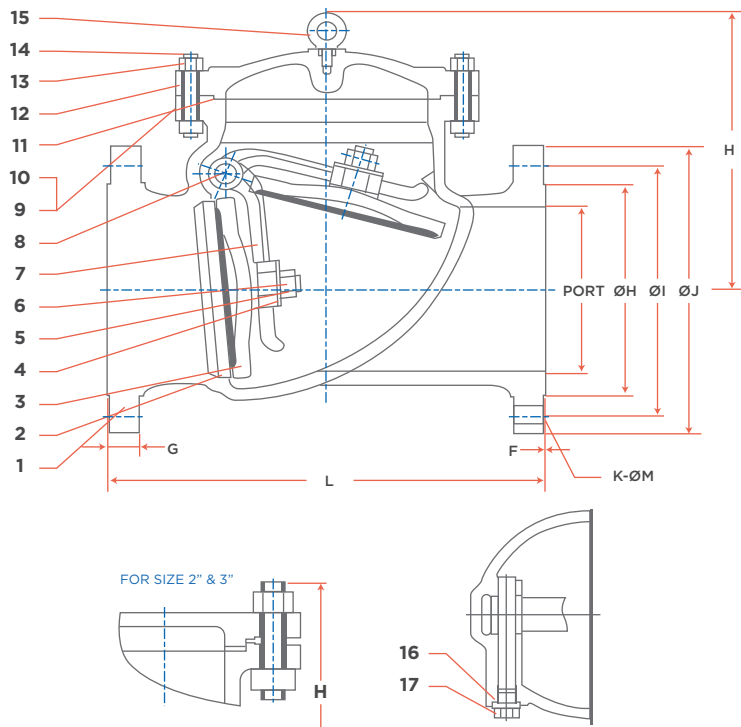
Previous experience in process or new development may permit applications above those shown.



Carbon Steel A-216 Gr. WCB
ASME B16.34 Ratings
Material Limits

DIMENSIONS

CLASS 150



VALVE MATERIAL LIST		
No.	DESCRIPTION	MATERIAL
1	BODY	ASTM A-216 Gr. WCB
2	SEAT RING	ASTM A-105 + STL#6
3	DISC	ASTM A-216 Gr. WCB + 13Cr
4	WASHER	AISI 1035
5	DISC NUT	ASTM A-194 Gr. 2H
6	DISC PIN	ASTM A-193 Gr. B7
7	HINGE	ASTM A-216 Gr. WCB
8	PIN	ASTM A-276 Gr. 410
9	NAMEPLATE	SS304
10	RIVET	SS304
11	GASKET	SS304 + GRAPHITE
12	COVER	ASTM A-216 Gr. WCB
13	COVER BOLT	ASTM A-193 Gr. B7
14	COVER NUT	ASTM A-194 Gr. 2H
15	LIFTING RING	AISI 1035
16	GASKET	SS304 + GRAPHITE
17	PLUG	ASTM A-276 Gr. 410

VALVE DIMENSIONS & WEIGHTS

MODEL	SIZE	PORT	L	H	ØJ	ØI	ØH	G	F	K	ØM	WEIGHT (KG)	CRACKING PRESSURE (PSI)	
2118F-09	2"	DN50	2.00	8.00	5.16	6.00	4.75	3.62	0.75	0.06	4.00	0.75	15.00	0.40
2118F-10	2 - 1/2"	DN65	2.50	8.50	6.10	7.00	5.50	4.12	0.88	0.06	4.00	0.75	20.30	0.40
2118F-11	3"	DN80	3.00	9.50	6.25	7.50	6.00	5.00	0.94	0.06	4.00	0.75	27.00	0.40
2118F-12	4"	DN100	4.00	11.50	7.56	9.00	7.50	6.19	0.94	0.06	8.00	0.75	42.00	0.40
2118F-13	5"	DN125	5.00	13.00	8.71	10.03	8.50	7.31	0.87	0.06	8.00	0.75	56.50	0.40
2118F-14	6"	DN150	6.00	14.00	9.88	11.00	9.50	8.50	1.00	0.06	8.00	0.88	72.30	0.40
2118F-15	8"	DN200	8.00	19.50	12.20	13.50	11.75	10.62	1.12	0.06	8.00	0.88	127.20	0.40
2118F-16	10"	DN250	10.00	24.50	14.80	16.00	14.25	12.75	1.19	0.06	12.00	1.00	222.00	0.40
2118F-17	12"	DN300	12.00	27.50	18.62	19.02	17.00	15.00	1.25	0.06	12.00	1.00	190.00	0.40
2118F-18	14"	DN350	14.00	31.00	18.15	21.00	18.75	16.26	1.31	0.06	12.00	1.14	480.00	0.40
2118F-19	16"	DN400	16.00	34.00	24.06	23.50	21.26	18.50	1.38	0.06	16.00	1.14	581.00	0.40
2118F-20	18"	DN450	18.00	38.50	25.59	25.00	22.76	20.98	1.57	0.06	16.00	1.26	720.00	0.40
2118F-21	20"	DN500	20.00	38.50	26.26	27.52	25.00	23.00	1.60	0.06	20.00	1.26	860.00	0.40
2118F-23	24"	DN600	24.00	51.00	30.04	32.00	29.50	27.25	1.89	0.06	20.00	1.38	1400.00	0.40

*WEIGHT IS ESTIMATED

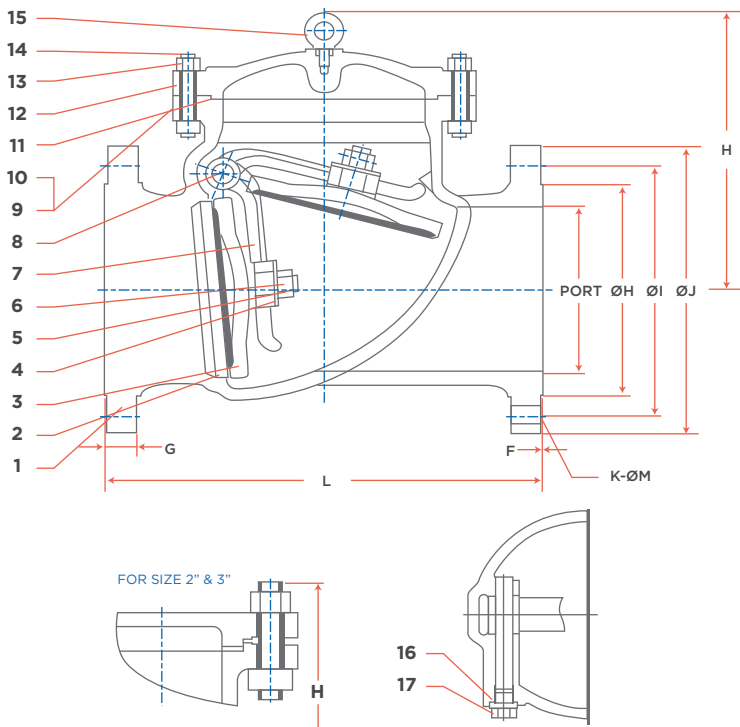
*ALL DIMENSIONS ARE EXPRESSED IN INCHES



< Scan the QR CODE to see our available studs and gasket.

DIMENSIONS

CLASS 300



VALVE MATERIAL LIST		
No.	DESCRIPTION	MATERIAL
1	BODY	ASTM A-216 Gr. WCB
2	SEAT RING	ASTM A-105 + STL#6
3	DISC	ASTM A-216 Gr. WCB + 13Cr
4	WASHER	AISI 1035
5	DISC NUT	ASTM A-194 Gr. 2H
6	DISC PIN	ASTM A-193 Gr. B7
7	HINGE	ASTM A-216 Gr. WCB
8	PIN	ASTM A-276 Gr. 410
9	NAMEPLATE	SS304
10	RIVET	SS304
11	GASKET	SS304 + GRAPHITE
12	COVER	ASTM A-216 Gr. WCB
13	COVER BOLT	ASTM A-193 Gr. B7
14	COVER NUT	ASTM A-194 Gr. 2H
15	LIFTING RING	AISI 1035
16	GASKET	SS304 + GRAPHITE
17	PLUG	ASTM A-276 Gr. 410

VALVE DIMENSIONS & WEIGHTS

MODEL	SIZE	PORT	L	H	ØJ	ØI	ØH	G	F	K	ØM	WEIGHT (KG)	CRACKING PRESSURE (PSI)	
2318F-09	2"	DN50	2.00	10.50	5.39	6.50	5.00	3.62	0.89	0.06	8.00	0.75	20.30	0.50
2318F-10	2 - 1/2"	DN65	2.50	11.50	6.41	7.50	5.88	4.12	1.00	0.06	8.00	0.88	31.00	0.50
2318F-11	3"	DN80	3.00	12.50	6.65	8.25	6.62	5.00	1.12	0.06	8.00	0.88	40.60	0.50
2318F-12	4"	DN100	4.00	14.00	8.70	10.00	7.88	6.19	1.25	0.06	8.00	0.88	63.00	0.50
2318F-13	6"	DN150	6.00	17.50	10.83	12.50	10.62	8.50	1.46	0.06	12.00	0.88	120.00	0.50
2318F-14	8"	DN200	8.00	21.00	13.23	15.00	13.00	10.62	1.63	0.06	12.00	1.00	196.00	0.50
2318F-15	10"	DN250	10.00	24.50	15.94	17.50	15.25	12.75	1.87	0.06	16.00	1.12	320.00	0.50
2318F-17	12"	DN300	12.00	28.00	18.48	20.50	17.75	15.00	1.25	0.06	16.00	1.25	440.00	0.50
2318F-18	14"	DN350	13.25	33.00	22.99	23.00	20.25	16.25	1.38	0.06	20.00	1.25	566.00	0.50
2318F-19	16"	DN400	15.25	34.00	26.30	25.50	22.50	18.50	1.46	0.06	20.00	1.38	830.00	0.50
2318F-20	18"	DN450	17.25	38.50	27.36	28.00	24.74	21.00	1.57	0.06	24.00	1.38	1110.00	0.50
2318F-21	20"	DN500	19.25	40.00	27.56	30.50	27.00	23.00	1.69	0.06	24.00	1.38	1300.00	0.50
2318F-23	24"	DN600	23.25	53.00	42.52	36.00	32.00	27.25	1.89	0.06	24.00	1.61	2200.00	0.50

*WEIGHT IS ESTIMATED

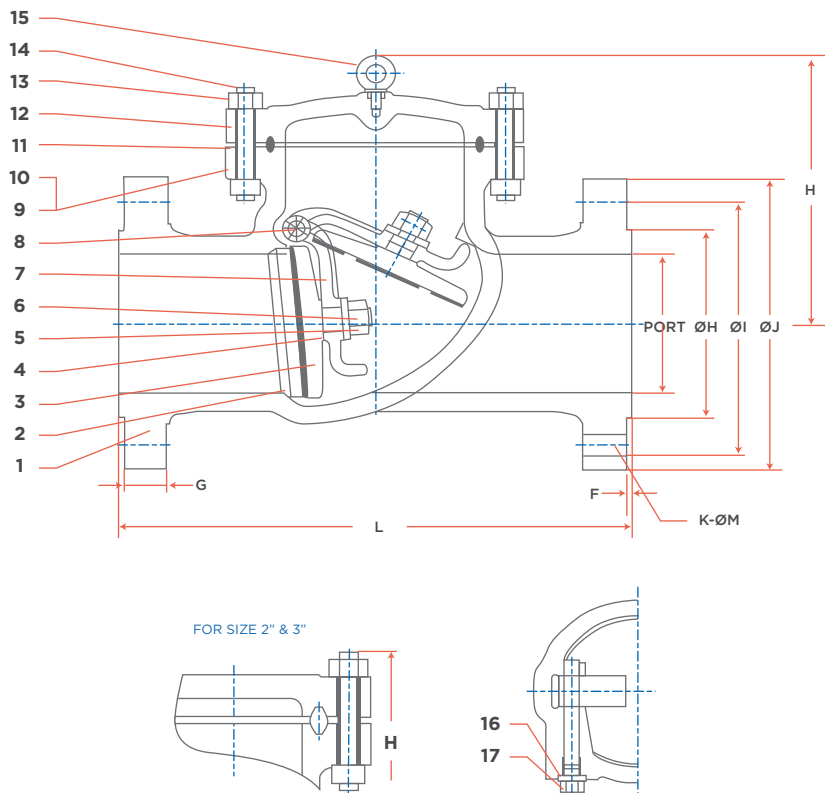
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DIMENSIONS

CLASS 600



VALVE MATERIAL LIST		
No.	DESCRIPTION	MATERIAL
1	BODY	ASTM A-216 Gr. WCB
2	SEAT RING	ASTM A-105 + STL#6
3	DISC	ASTM A-216 Gr. WCB + 13Cr
4	WASHER	AISI 1035
5	DISC NUT	ASTM A-194 Gr. 2H
6	DISC PIN	ASTM A-193 Gr. B7
7	HINGE	ASTM A-216 Gr. WCB
8	PIN	ASTM A-276 Gr. 410
9	NAMEPLATE	SS304
10	RIVET	SS304
11	GASKET	SS304 + GRAPHITE
12	COVER	ASTM A-216 Gr. WCB
13	COVER BOLT	ASTM A-193 Gr. B7
14	COVER NUT	ASTM A-194 Gr. 2H
15	LIFTING RING	AISI 1035
16	GASKET	SS304 + GRAPHITE
17	PLUG	ASTM A-276 Gr. 410

VALVE DIMENSIONS & WEIGHTS

MODEL	SIZE	PORT	L	H	ØJ	ØI	ØH	G	F	K	ØM	WEIGHT (KG)	CRACKING PRESSURE (PSI)	
2618F-09	2"	DN50	2.00	11.50	5.87	6.50	5.00	3.62	1.00	0.25	8.00	0.75	29.00	0.70
2618F-10	2 - 1/2"	DN65	2.50	13.00	7.13	7.50	5.88	4.12	1.12	0.25	8.00	0.87	48.00	0.70
2618F-11	3"	DN80	3.00	14.00	7.60	8.25	6.62	5.00	1.25	0.25	8.00	0.87	60.30	0.70
2618F-12	4"	DN100	4.00	17.00	10.08	10.75	8.50	6.19	1.50	0.25	8.00	1.00	99.50	0.70
2618F-13	6"	DN150	6.00	22.00	12.68	14.00	11.50	8.50	1.88	0.25	12.00	1.12	211.70	0.70
2618F-15	8"	DN200	7.87	26.00	15.24	16.50	13.75	10.62	2.19	0.25	12.00	1.25	345.00	0.70
2618F-16	10"	DN250	9.75	31.00	18.03	20.00	17.00	12.75	2.50	0.25	16.00	1.37	575.00	0.70
2618F-17	12"	DN300	11.75	33.00	21.69	22.00	19.25	15.00	2.62	0.25	20.00	1.37	820.00	0.70
2618F-18	14"	DN350	12.87	35.00	25.87	23.75	20.75	16.23	2.76	0.25	20.00	1.50	1050.00	0.70
2618F-19	16"	DN400	14.75	39.00	27.95	27.00	23.75	18.50	2.99	0.25	20.00	1.63	1470.00	0.70
2618F-20	18"	DN450	16.50	43.00	31.73	29.25	25.75	21.00	3.27	0.25	20.00	1.75	1820.00	0.70
2618F-21	20"	DN500	18.25	47.00	28.62	32.00	28.50	23.03	3.50	0.25	24.00	1.77	2385.00	0.70
2618F-23	24"	DN600	22.00	55.00	33.66	37.00	33.00	27.25	4.00	0.25	24.00	2.00	3300.00	0.70

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