



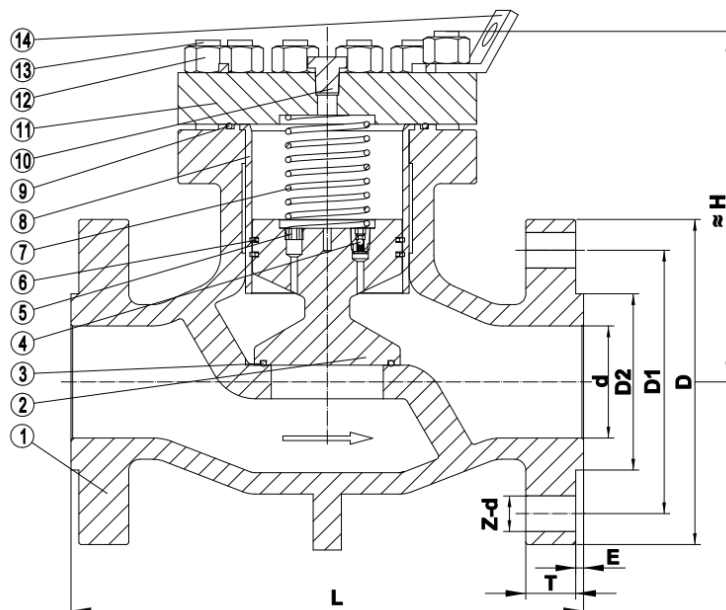
Class 600 Cast Steel Piston Check Valve

FIG.# 4E-56WCCHF

WCC Body, F6a CL2 Piston, Nace
Piston Check Valve, Full Port
Design and Manufacture: API6D
Face to Face Dimensions: ASME B16.10
Flange Ends Dimensions: ASME B16.5
Pressure Test: API6D

MATERIAL LIST

No.	Part Name	Material
1	Body	A216 WCC+UNS S41000
2	Piston	A182 F6a CL2
3	Piston seal	HNBR-90
4	Ball check valve	A276 316
5	Orifice screw	A193 B7M
6	Piston ring	AISI 1066/Nitriding
7	Spring	Inconel X-750
8	Liner	AISI 1020+ENP
9	Cover seal	HNBR-90
10	Plug	A276 316
11	Cover	ASTM A105N
12	Nut	A194 2HM
13	Stud	A193 B7M
14	Lifting lugs	ASTM A283 GR.D



DIMENSIONS & WEIGHT

SIZE	unit	2"	3"	4"	6"
L	inch	11.5	14.02	17.01	22.01
	mm	292	356	432	559
d	inch	1.93	2.91	3.94	5.91
	mm	49	74	100	150
D	inch	6.5	8.27	10.83	13.98
	mm	165	210	275	355
D1	inch	5	6.63	8.5	11.5
	mm	127	168.3	215.9	292.1
D2	inch	3.62	5	6.2	8.5
	mm	92	127	157.5	215.9
T	inch	1	1.26	1.52	1.89
	mm	25.5	32	38.5	48
E	inch	0.28	0.28	0.28	0.28
	mm	7	7	7	7
Z-d	inch	0.75	0.87	0.98	1.25
	mm	19	22	25	31.8
	Qty	8	8	8	12
≈ H	inch	7.62	8.70	8.96	14.98
	mm	193.5	221	227.5	380.5
Weight	LBS.	74.96	126.77	229.28	521.39
	Kgs.	34	57.5	104	236.5



NOTE:

4E valves reserves the right to change designs, materials, or specifications without notice or without obligation to furnish or install such changes on products previously or subsequently sold

Class 900 Cast Steel Piston Check Valve



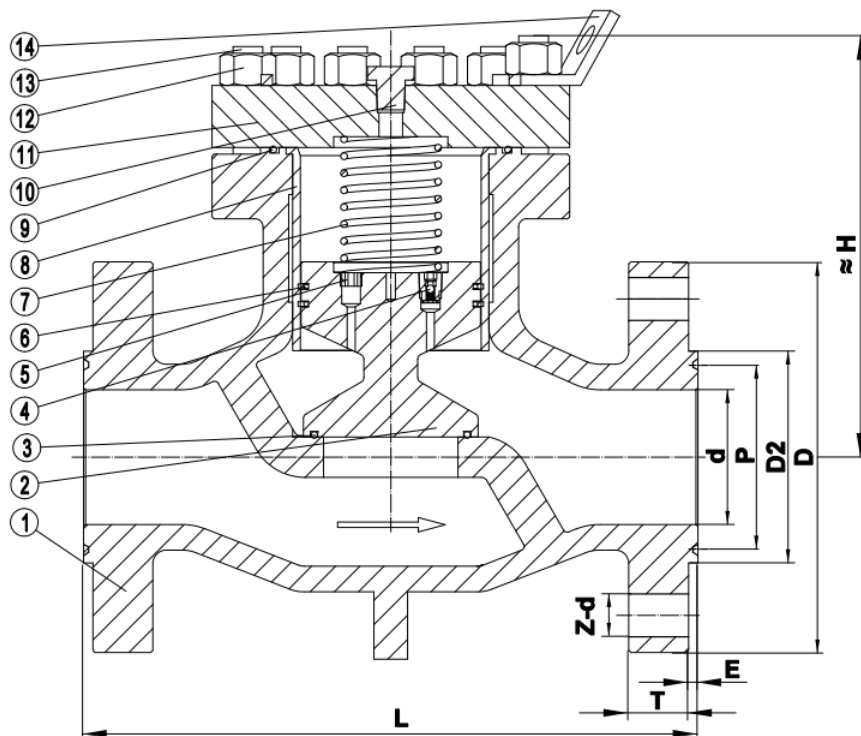
FIG.# 4E-59WCCHF

WCC Body, F6a CL2 Piston, wNace
Piston Check Valve, Full Port
Design and Manufacture: API6D
Face to Face Dimensions: ASME B16.10
Flange Ends Dimensions: ASME B16.5
Pressure Test: API6D



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DIMENSIONS & WEIGHT

SIZE	unit	3"	4"
L	inch	15	17.99
	mm	381	457
d	inch	2.91	3.94
	mm	74	100
D	inch	9.45	11.42
	mm	240	290
D1	inch	7.5	9.25
	mm	190.5	235
D2	inch	5	6.2
	mm	127	157.5
T	inch	1.52	1.75
	mm	38.5	44.5
E	inch	0.28	0.28
	mm	7	7
Z-d	inch	0.98	1.25
	mm	25	31.8
	Qty	8	8
H	inch	9.37	11.81
	mm	238	300
Weight	LBS.	171.96	306.44
	Kgs.	78	139

Class	Pressure Test (MPa)	
	Shell Test	Seat Test
900	13.28	17.07
Body	WCC	-20 - 800°F
Seal	HNBR-90	-50 - 302°F

MATERIAL LIST

No.	Part Name	Material
1	Body	A216 WCC+UNS S41000
2	Piston	A182 F6a CL2
3	Piston seal	HNBR-90
4	Ball check valve	A276 316
5	Orifice screw	A193 B7M
6	Piston ring	AISI 1066/Nitriding
7	Spring	Inconel X-750
8	Liner	AISI 1020+ENP
9	Cover seal	HNBR-90
10	Plug	A276 316
11	Cover	ASTM A105N
12	Nut	A194 2HM
13	Stud	A193 B7M
14	Lifting lugs	ASTM A283 GR.D



Class 900/1500 Cast Steel Piston Check Valve

FIG.# 4E-59WCCHF

WCC Body, F6a CL2 Piston, Nace
Piston Check Valve, Full Port
Design and Manufacture: API6D
Face to Face Dimensions: ASME B16.10
Flange Ends Dimensions: ASME B16.5
Pressure Test: API6D



NOTE:

4E valves reserves the right to change designs, materials, or specifications without notice or without obligation to furnish or install such changes on products previously or subsequently sold

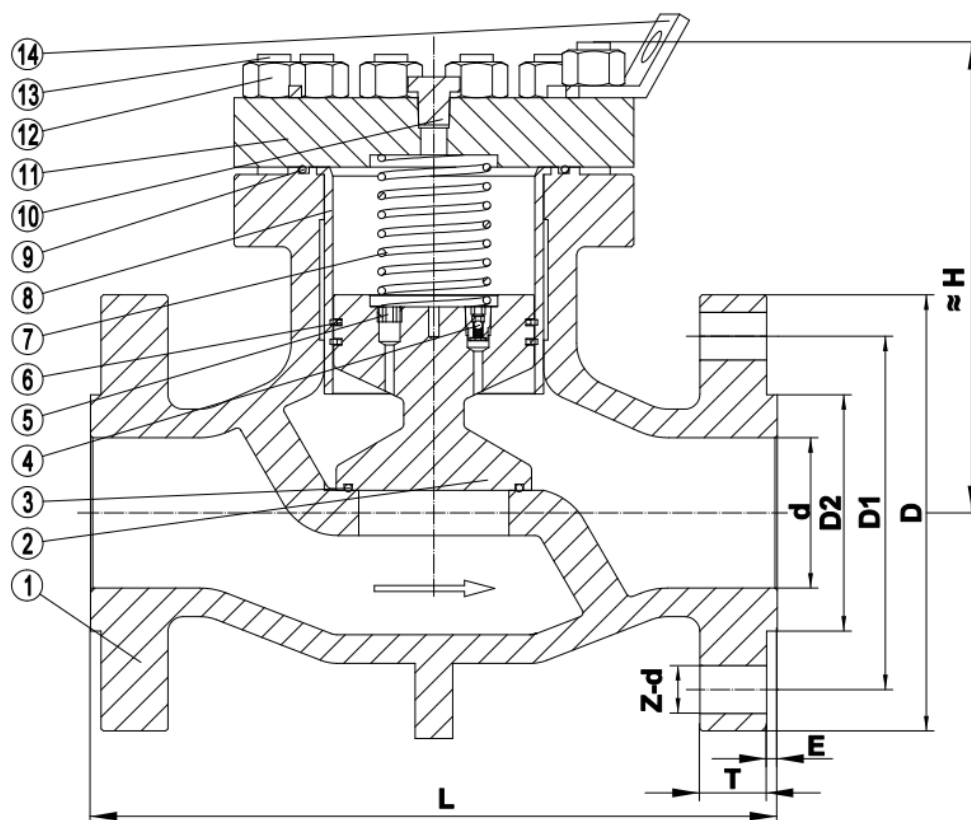
Class	Pressure Test (MPa)	
	Shell Test	Seat Test
900/1500	38.8	28.45
Body	WCC	-20 - 800°F
Seal	HNBR-90	-50 - 302°F

MATERIAL LIST

No.	Part Name	Material
1	BODY	A216 WCC+UNS R3006
2	Piston	A182 F6a CL2
3	Piston seal	HNBR-90
4	Ball check valve	A276 316
5	Orifice screw	A193 B7M
6	Piston ring	AISI 1066/Nitriding
7	Spring	Inconel X-750
8	Liner	AISI 1020+ENP
9	Cover seal	HNBR-90
10	Plug	A276 316
11	Cover	ASTM A105N
12	Nut	A194 2HM
13	Stud	A193 B7M
14	Lifting lugs	ASTM A283 GR.D

DIMENSIONS & WEIGHT

SIZE	unit	2"
L	inch	14.49
	mm	368
d	inch	1.93
	mm	49
D	inch	8.46
	mm	215
D1	inch	6.5
	mm	165.1
D2	inch	3.62
	mm	92
T	inch	1.5
	mm	38.1
E	inch	0.28
	mm	7
Z-d	inch	0.98
	mm	25
	Qty	8
≈ H	inch	8.62
	mm	219
Weight	LBS.	165
	Kgs.	75



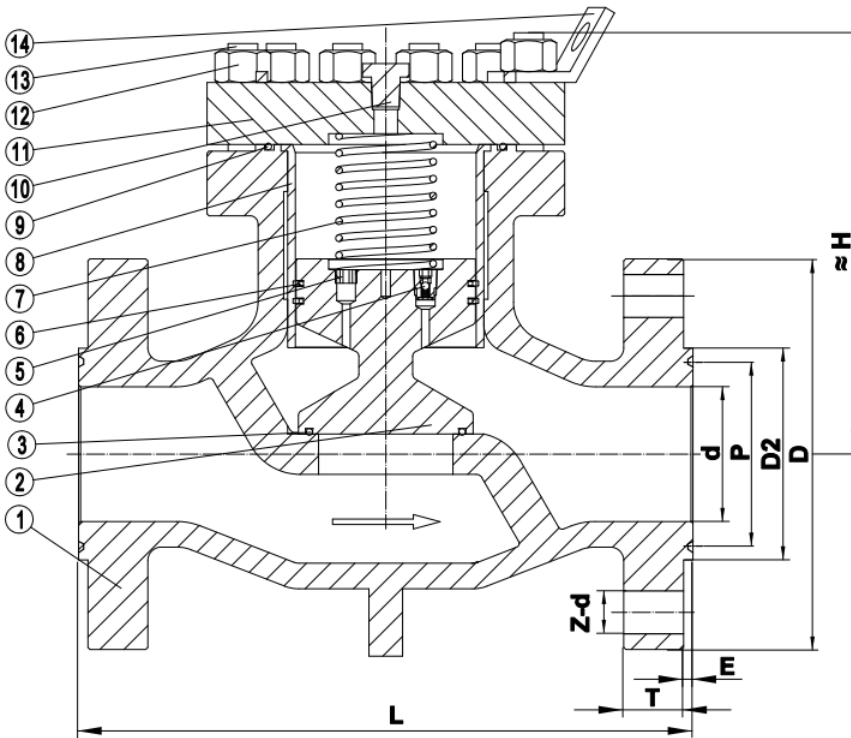
Class 2500 Cast Steel Piston Check Valve



FIG.# 4E-525WCCHJ

WCC Body, F6a CL2 Piston, Nace
Piston Check Valve, Full Port
Design and Manufacture: API6D
Face to Face Dimensions: ASME B16.10
Flange Ends Dimensions: ASME B16.5
Pressure Test: API6D

Class	Pressure Test (MPa)	
	Shell Test	Seat Test
2500	64.7	47.4
Body	WCC	-20 - 800°F
Seal	HNBR-90	-50 - 302°F



MATERIAL LIST

No.	Part Name	Material
1	BODY	A216 WCC+UNS R3006
2	Piston	A182 F6a CL2
3	Piston seal	HNBR-90
4	Ball check valve	A276 316
5	Orifice screw	A193 B7M
6	Piston ring	AISI 1066/Nitriding
7	Spring	Inconel X-750
8	Liner	AISI 1020+ENP
9	Cover seal	HNBR-90
10	Plug	A276 316
11	Cover	ASTM A105N
12	Nut	A194 2HM
13	Stud	A193 B7M
14	Lifting lugs	ASTM A283 GR.D

DIMENSIONS & WEIGHT

SIZE	unit	2"
L	inch	17.87
	mm	454
d	inch	1.65
	mm	42
D	inch	9.25
	mm	235
D2	inch	5.24
	mm	133
P	inch	4
	mm	101.6
T	inch	6
	mm	51
E	inch	0.28
	mm	7
Z-d	inch	1.14
	mm	29
	Qty	8
H	inch	11.02
	mm	280
Weight	LBS.	283.29
	Kgs.	128.5



NOTE:

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