

VALVE SIZE	VALVE Cv
1/2"	15
3/4"	45
1"	85
1-1/2"	275
2"	460
2-1/2"	700
3"	1,100
4"	2,200
6"	5,150
8"	10,000

RTFE seats are standard, but various options are available for seat materials. The 50/50 STFE seat option is excellent for services that call for higher temperatures and more difficult applications, including steam. Call us for details.

Easy to Automate!

See automated data sheets for pre-sized assemblies



Pneumatic



Electric

TRIAC®

Series D9 Direct Mount Split Body Flanged Ball Valve

Sizes 1/2"-8" stock

(Call factory for 10" & 12")

Available in 316SST or WCB

ANSI Class 150

Full Port Design

Superior Live Loaded Packing System

ISO 5211 Actuator Mounting Pad

Blowout Proof Stem w/ Dual Anti-Static Devices

RTFE Seats Standard

Pyramidal Stem Seal Design

Monel Ball & Stem Available

Lockable Manual Handle

STANDARDS

DESIGN	ANSI/ASME B16.34
FACE TO FACE	ANSI/ASME B16.10
FLANGE DIMENSIONS	ANSI/ASME B16.5
PIPELINE VALVES	API 6D
PRESSURE TESTING	API 598
MOUNTING	ISO 5211
MARKING SYSTEM FOR VALVES	MSS SP-25
SAFETY INTEGRITY	IEC 61508:2010; SIL 3
MATERIAL CERTIFICATION	EN 10204-3.1 MTR
QUALITY ASSURANCE	ISO 9001:2015



HOW TO ORDER MANUAL VALVES

SAMPLE PART #

D9C-F1-0300-XXX

Valve Series

Carbon Steel

End Connection

Valve Size

Seat Material

Special Designation

Additional Special Designation

See part number matrix for itemized options



A-T Controls, Inc.

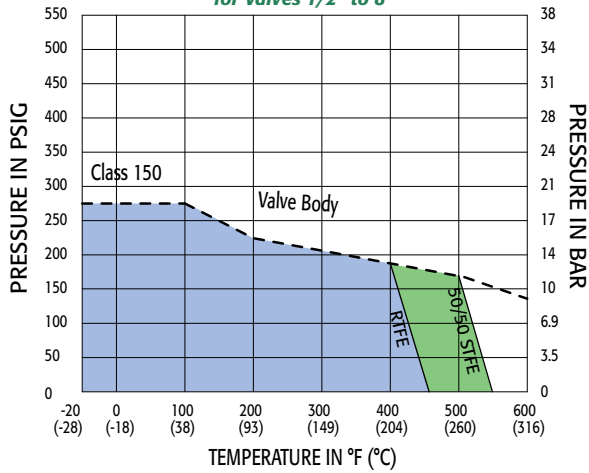
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www.atcontrols.com

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FAX (513) 247-5462
sales@atcontrols.com

Series D9

High Performance, Full Port Split Body Ball Valve Series D9 (ANSI Class 150)

Pressure vs. Temperature Chart
for Valves 1/2" to 8"



Break Away Torque
for RTFE Seats

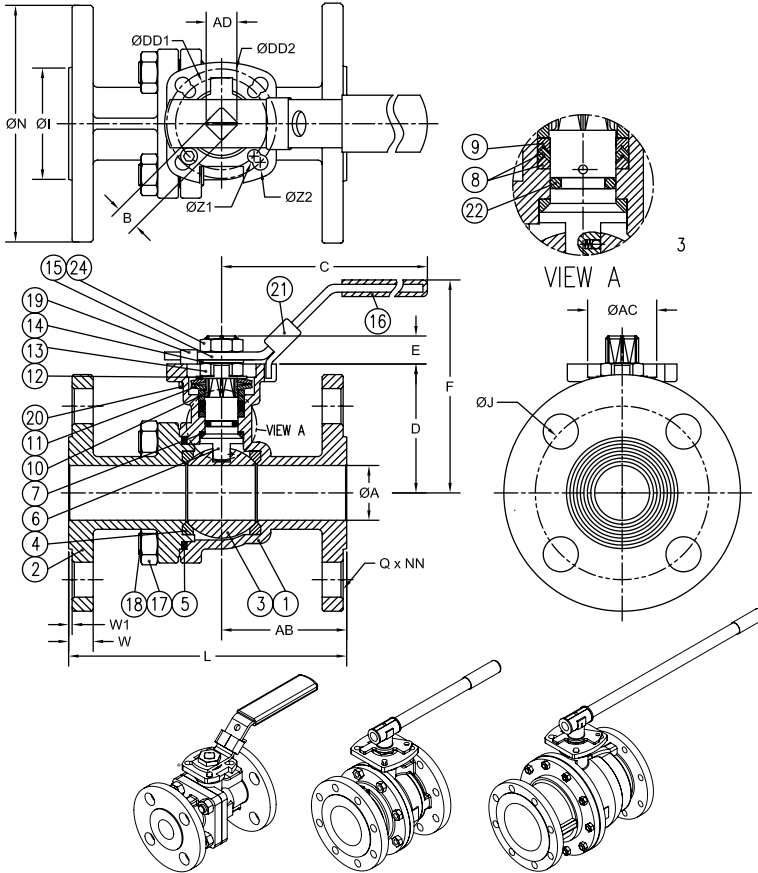
SIZE	IN-LBS.
1/2"	92
3/4"	127
1"	150
1-1/2"	360
2"	395
2-1/2"	600
3"	900
4"	1,500
6"	2,550
8"	7,256

NOTE: For other seat material, consult factory

MATERIALS LIST

NO.	PART NAME	QTY	STAINLESS STEEL	CARBON STEEL
1	BODY	1	ASTM A351 GRADE CF8M	ASTM A216 GRADE WCB
2	END CAP	1	ASTM A351 GRADE CF8M	ASTM A216 GRADE WCB
3	BALL	1	ASTM A351 GRADE CF8M	ASTM A351 GRADE CF8M
4	SEAT	2	RTFE	RTFE
5	JOINT GASKET	1	PTFE	PTFE
6	STEM	1	ASTM A276 SS316	ASTM A276 SS316
7	STEM SEAL	1	RTFE	RTFE
8	GLAND PACKING	1 ^	PTFE	PTFE
9	GLAND WASHER	1	RTFE	RTFE
10	GLAND BUSHING	1	AISI 304	AISI 304
11	BELLEVILLE WASHER	2	AISI 301	AISI 301
12	LOCK SADDLE	1	AISI 304	AISI 304
13	STEM NUT	1	AISI 304	AISI 304
14	STEM WASHER	1	AISI 304	AISI 304
15	HANDLE	1	AISI 304	AISI 304
16	HANDLE SLEEVE	1	VINYL	VINYL
17	BODY NUT	*	ASTM A194 GRADE 8	ASTM A194 GRADE 8
18	BODY STUD	*	ASTM A193 GRADE B8	ASTM A193 GRADE B8
19	STOP BOLT	1	AISI 304	AISI 304
20	STOP BOLT NUT	1	AISI 304	AISI 304
21	HANDLE LOCK	1	AISI 304	AISI 304
22	O-RING	1	VITON®	VITON®
23	ANTI-STATIC DEVICE	2	AISI 316	AISI 316
24	HANDLE NUT	1	AISI 304	AISI 304

^ PACKING SET
* 1/2" THRU 2" QTY = 4 PCS
* 2-1/2" THRU 4" QTY = 8 PCS
* 6" QTY = 10 PCS
* 8" QTY = 12 PCS



BENT HANDLE SIZES 1/2" - 2-1/2" PIPE HANDLE SIZES 3" - 4" PIPE HANDLE SIZE 6"

NOTE: A-T CONTROLS RECOMMENDS A GEAR FOR 6" VALVES AND LARGER

DIMENSIONS (IN)

SIZE	A	B	C	D	E	F	I	J	L	N	Q	W	W1	Z1	Z2	AB	AC	AD	DD1	DD2	NN	ISO 5211	(LBS)
1/2"	0.59	0.433	6.50	1.84	0.39	3.30	1.38	2.38	4.26	3.50	0.63	0.44	0.06	0.26	0.28	1.84	1.26	0.55	1.654	1.969	4	F04/F05	4.0
3/4"	0.79	0.433	6.50	2.02	0.39	3.45	1.69	2.74	4.62	3.88	0.63	0.44	0.06	0.26	0.28	2.18	1.26	0.55	1.654	1.969	4	F04/F05	5.0
1"	0.98	0.433	6.50	2.31	0.41	3.81	2.00	3.12	5.00	4.25	0.63	0.44	0.06	0.26	0.28	2.21	1.26	0.55	1.654	1.969	4	F04/F05	7.0
1-1/2"	1.50	0.748	10.32	3.51	0.75	5.60	2.88	3.88	6.50	5.00	0.63	0.56	0.06	0.39	0.47	2.83	2.09	0.94	2.756	4.016	4	F07/F10	14.5
2"	1.97	0.748	10.32	3.80	0.75	5.78	3.62	4.75	7.02	6.00	0.75	0.63	0.06	0.39	0.47	3.38	2.09	0.94	2.756	4.016	4	F07/F10	20.5
2-1/2"	2.56	0.748	10.32	4.57	0.75	6.75	4.12	5.50	7.48	7.00	0.75	0.69	0.06	0.39	0.47	3.06	2.09	0.94	2.756	4.016	4	F07/F10	31.0
3"	3.15	0.866	14.37	5.22	0.91	8.05	5.00	6.00	8.01	7.50	0.75	0.75	0.06	0.47	0.55	4.01	2.55	1.18	4.016	4.921	4	F10/F12	41.0
4"	3.94	0.866	14.37	6.18	0.91	9.00	6.19	7.50	9.00	9.00	0.75	0.94	0.06	0.47	0.55	4.07	2.55	1.18	4.016	4.921	8	F10/F12	67.5
6"	5.91	1.063	29.53	8.28	1.12	12.50	8.50	9.50	15.50	11.0	0.87	1.00	0.06	0.55	0.71	7.00	2.97	1.41	4.921	5.511	8	F12/F14	145.0
8"	7.91	1.417	37.60	10.43	1.58	12.83	10.62	11.75	18.00	13.5	0.88	1.12	0.06	0.71	0.87	9.00	NA	1.81	5.51	6.50	8	F14/F16	208.0

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A-T Controls reserves the right to change product designs and technical/dimensional specifications without notice.

A-T Controls, Inc.

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www.atcontrols.com
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Pneumatic Double Acting

Automated Ball Valve Package

Series D9
ANSI Class 150
Flanged Ball Valve
Direct Mount

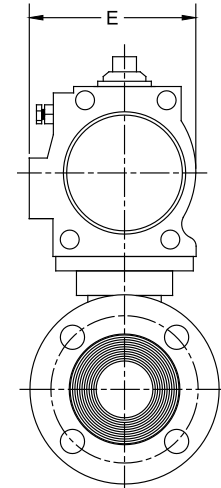
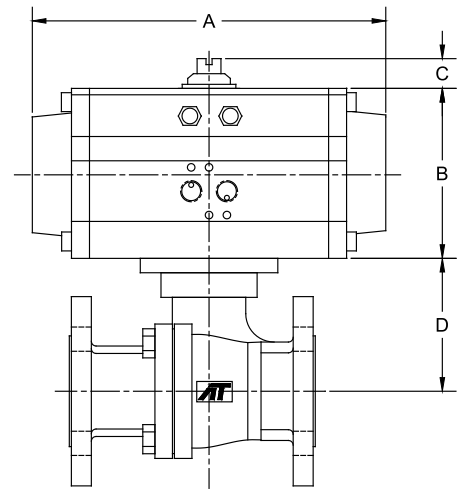
Sizes 1/2"-6" stock
(Call factory for 8", 10" & 12")
Available in 316SST or WCB
ANSI Class 150
Full Port Design
Superior Live Loaded
Packing System
Blowout Proof Stem w/ Dual
Anti-Static Devices
RTFE Seats Standard
Pyramidal Stem Seal Design
Monel Ball & Stem Available

STANDARDS

DESIGN	ANSI/ASME B16.34
FACE TO FACE	ANSI/ASME B16.10
FLANGE DIMENSIONS	ANSI/ASME B16.5
PIPELINE VALVES	API 6D
PRESSURE TESTING	API 598
MOUNTING	ISO 5211
MARKING SYSTEM FOR VALVES	MSS SP-25
SAFETY INTEGRITY	IEC 61508:2010; SIL 3
MATERIAL CERTIFICATION	EN 10204-3.1 MTR
QUALITY ASSURANCE	ISO 9001:2008



**150# Flanged
Direct Mount**



DIMENSIONS (IN)

VALVE SIZE	A	B	C	D	E	VALVE Cv
1/2"	5.98	2.76	0.79	1.84	2.58	15
3/4"	5.98	2.76	0.79	2.02	2.58	45
1"	7.95	3.43	0.79	2.31	3.29	85
1-1/2"	9.29	4.49	0.79	3.51	4.41	275
2"	9.29	4.49	0.79	3.80	4.41	450
2-1/2"	10.87	4.88	0.79	4.57	4.69	700
3"	13.90	6.18	0.79	5.22	5.91	1,100
4"	13.90	6.18	0.79	6.18	5.91	2,200
6"	20.95	8.31	1.18	8.28	6.89	5,150

DIMENSIONS SHOWN ARE FOR ASSEMBLIES SIZED FOR 80 PSI SUPPLY



SIZED FOR 80 psi AIR SUPPLY	
SIZE	MODEL
1/2"	D9-F1-050/TR1D-XX
3/4"	D9-F1-075/TR1D-XX
1"	D9-F1-100/2R2D-XX
1-1/2"	D9-F1-150/2R3D-XX
2"	D9-F1-200/2R3D-XX
2-1/2"	D9-F1-250/2R4D-XX
3"	D9-F1-300/2R6D-XX
4"	D9-F1-400/2R6D-XX
6"	D9-F1-600/2R8D-XX

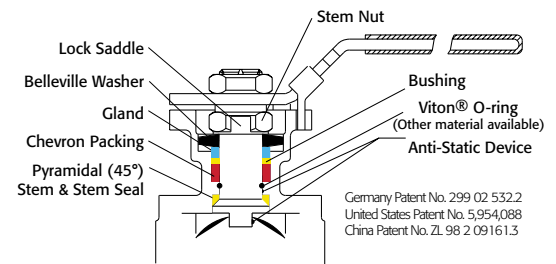
SIZED FOR 60 psi AIR SUPPLY	
SIZE	MODEL
1/2"	D9-F1-050/TR1D-XX
3/4"	D9-F1-075/2R2D-XX
1"	D9-F1-100/2R2D-XX
1-1/2"	D9-F1-150/2R3D-XX
2"	D9-F1-200/2R3D-XX
2-1/2"	D9-F1-250/2R5D-XX
3"	D9-F1-300/2R6D-XX
4"	D9-F1-400/2R6D-XX
6"	D9-F1-600/2R9D-XX

OPTIONS

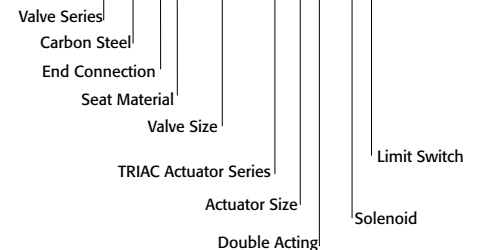
DESCRIPTION	PART NO. SUFFIX	DESCRIPTION	PART NO. SUFFIX
NEMA 4 Solenoid	(A)	NEMA 4 Limit Switch (2) spdt	(A)
NEMA 7 Solenoid	(B)	NEMA 7 Limit Switch (2) spdt	(B)
Intrinsically Safe Solenoid	(C)	Intrinsically Safe Limit Switch	(C)

Other options available - call for details
Actuators are sized based on clean/clear fluid.

D9DA-20160512
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SAMPLE PART #
D9C-F1-150/2R3D-XX



See valve part number matrix for complete part number and options.



A-T Controls, Inc.

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Cincinnati, Ohio 45246
www.atcontrols.com

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SERIES D9 150# Flanged Direct Mount



Pneumatic Spring Return

Automated Ball Valve Package

Series D9 ANSI Class 150 Flanged Ball Valve Direct Mount

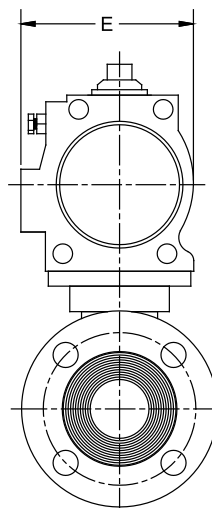
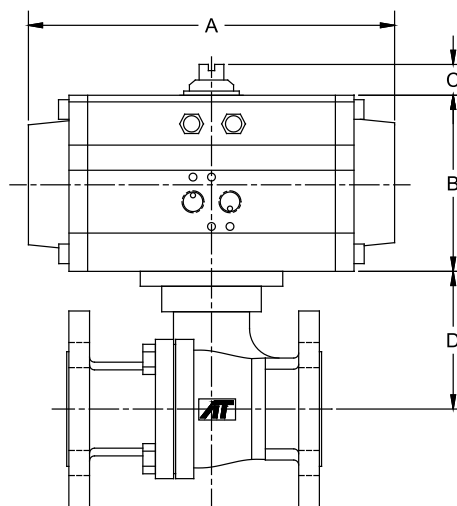
Sizes 1/2"-6" stock
(Call factory for 8", 10" & 12")
Available in 316SST or WCB
ANSI Class 150
Full Port Design
Superior Live Loaded
Packing System
Blowout Proof Stem w/ Dual
Anti-Static Devices
RTFE Seats Standard
Pyramidal Stem Seal Design
Monel Ball & Stem Available

STANDARDS

DESIGN	ANSI/ASME B16.34
FACE TO FACE	ANSI/ASME B16.10
FLANGE DIMENSIONS	ANSI/ASME B16.5
PIPELINE VALVES	API 6D
PRESSURE TESTING	API 598
MOUNTING	ISO 5211
MARKING SYSTEM FOR VALVES	MSS SP-25
SAFETY INTEGRITY	IEC 61508:2010; SIL 3
MATERIAL CERTIFICATION	EN 10204-3.1 MTR
QUALITY ASSURANCE	ISO 9001:2008



150# Flanged
Direct Mount



DIMENSIONS (IN)

VALVE SIZE	A	B	C	D	E	VALVE Cv
1/2"	7.95	3.43	0.79	1.84	3.29	15
3/4"	9.29	4.49	0.79	2.02	4.41	45
1"	9.29	4.49	0.79	2.31	4.41	85
1-1/2"	10.87	4.88	0.79	3.51	4.69	275
2"	10.87	4.88	0.79	3.8	4.69	450
2-1/2"	13.9	6.18	0.79	4.57	5.91	700
3"	13.9	6.18	0.79	5.22	5.91	1,100
4"	15.16	6.93	1.18	6.18	6.5	2,200
6"	24.37	10.12	1.18	8.28	8.31	5,150

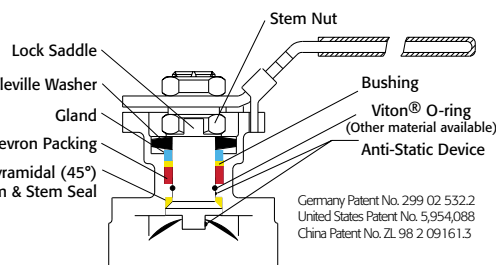
DIMENSIONS SHOWN ARE FOR ASSEMBLIES SIZED FOR 80 PSI SUPPLY



SERIES D9 150# Flanged Direct Mount

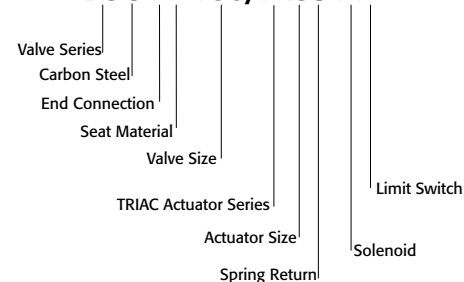
SIZED FOR 80 psi AIR SUPPLY	
SIZE	MODEL
1/2"	D9-F1-050/2R2S-XX
3/4"	D9-F1-075/2R3S-XX
1"	D9-F1-100/2R3S-XX
1-1/2"	D9-F1-150/2R4S-XX
2"	D9-F1-200/2R4S-XX
2-1/2"	D9-F1-250/2R6S-XX
3"	D9-F1-300/2R6S-XX
4"	D9-F1-400/2R7S-XX
6"	D9-F1-600/2R0S-XX

SIZED FOR 60 psi AIR SUPPLY	
SIZE	MODEL
1/2"	D9-F1-050/2R3S-XX
3/4"	D9-F1-075/2R3S-XX
1"	D9-F1-100/2R3S-XX
1-1/2"	D9-F1-150/2R4S-XX
2"	D9-F1-200/2R5S-XX
2-1/2"	D9-F1-250/2R6S-XX
3"	D9-F1-300/2R6S-XX
4"	D9-F1-400/2R7S-XX
6"	D9-F1-600/2R0S-XX



Germany Patent No. 299 02 532.2
United States Patent No. 5,954,088
China Patent No. ZL 98 2 09161.3

SAMPLE PART # D9C-F1-150/2R3S-XX



See valve part number matrix for complete part number and options.



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Electric

Automated Ball Valve Package

Series D9 ANSI Class 150 Flanged Ball Valve Direct Mount

Sizes 1/2" - 6" stock
(Call factory for 8", 10" & 12")

Available in 316SST or WCB

ANSI Class 150

Full Port Design

Superior Live Loaded
Packing System

Blowout Proof Stem w/ Dual
Anti-Static Devices

RTFE Seats Standard

Pyramidal Stem Seal Design

Monel Ball & Stem Available

STANDARDS

DESIGN	ANSI/ASME B16.34
FACE TO FACE	ANSI/ASME B16.10
FLANGE DIMENSIONS	ANSI/ASME B16.5
PIPELINE VALVES	API 6D
PRESSURE TESTING	API 598
MOUNTING	ISO 5211
MARKING SYSTEM FOR VALVES	MSS SP-25
SAFETY INTEGRITY	IEC 61508:2010; SIL 3
MATERIAL CERTIFICATION	EN 10204-3.1 MTR
QUALITY ASSURANCE	ISO 9001:2008

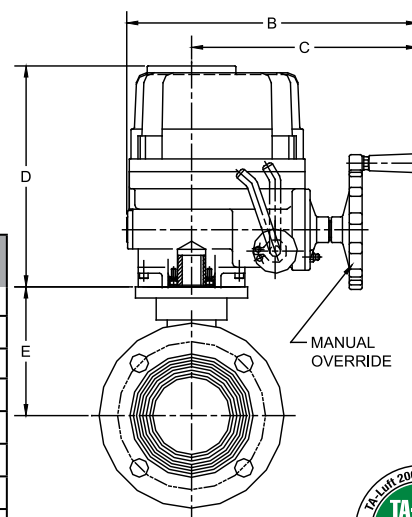
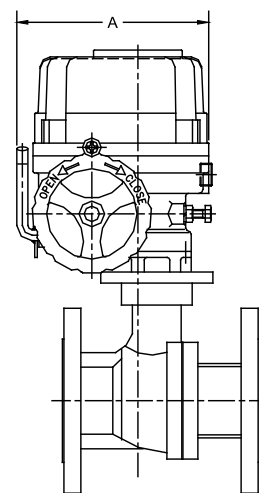


150# Flanged
Direct Mount

DIMENSIONS (IN)

VALVE SIZE	A	B	C	D	E	VALVE Cv
1/2"	4.98	4.08	N/A	5.24	1.84	15
3/4"	4.98	4.08	N/A	5.24	2.02	45
1"	4.98	4.08	N/A	5.24	2.31	85
1-1/2"	4.98	4.08	N/A	5.24	3.51	275
2"	4.98	4.08	N/A	5.24	3.80	450
2-1/2"	9.02	13.31	10.43	10.55	4.57	700
3"	9.02	13.31	10.43	10.55	5.22	1,100
4"	10.20	14.49	11.26	11.42	6.18	2,200
6"	10.20	14.49	11.26	11.97	8.28	5,150

(D) DIMENSION IS FROM CENTERLINE TO END OF HANDWHEEL ON
2-1/2" - 6" OR MODULATING ACTUATORS 1/2" - 2".
FOR SPECIALS, CONSULT FACTORY



SERIES D9 150# Flanged Direct Mount

ON-OFF

SIZE	MODEL
1/2"	D9-F1-050/WEA1-XX
3/4"	D9-F1-075/WEA1-XX
1"	D9-F1-100/WEA1-XX
1-1/2"	D9-F1-150/WEA1-XX
2"	D9-F1-200/WEA1-XX
2-1/2"	D9-F1-250/WEC1-XX
3"	D9-F1-300/WEC1-XX
4"	D9-F1-400/WEE1-XX
6"	D9-F1-600/WEF1-XX

MODULATING

SIZE	MODEL
1/2"	D9-F1-050/WEA2-XX
3/4"	D9-F1-075/WEA2-XX
1"	D9-F1-100/WEA2-XX
1-1/2"	D9-F1-150/WEA2-XX
2"	D9-F1-200/WEA2-XX
2-1/2"	D9-F1-250/WEC2-XX
3"	D9-F1-300/WEC2-XX
4"	D9-F1-400/WEE2-XX
6"	D9-F1-600/WEF2-XX

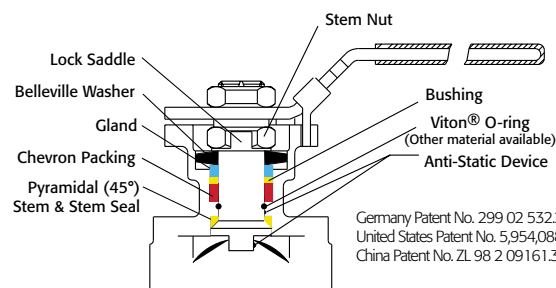
OPTIONS

DESCRIPTION
24 VAC/24 VDC/220VAC
Feedback potentiometer

NOTE: Heater and thermostat standard
(2) auxiliary switches standard

Other options available - call for details
Actuators are sized based on clean/clear fluid.

D9EL-20160512
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Germany Patent No. 299 02 532.2
United States Patent No. 5,954,088
China Patent No. ZL 98 2 09161.3

SAMPLE PART #

D9C-F1-150/WEA1-XX

Valve Series	Options
Carbon Steel	Voltage
End Connection	On-Off
Seat Material	Actuator Size
Valve Size	
TRIAC Actuator Series	

See valve part number matrix for complete part number and options.



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Valve Options

Various Seat Materials

PTFE, RTFE, 50/50 STFE, 25% CTFE, Delrin, PEEK, UHMWPE, TFM-1600

Operator Options

Quarter-turn Gear Operators
Spring Return "Deadman" Handles
Oval handles, TEE Handles

Specials and Solutions

Steam Jackets
Stem Extensions
V-ported Control Valves
Multi-port Valve Solutions
Fugitive Emissions Bonnets (TSM's)
Oxygen Cleaning
Lockout Brackets
Vented Balls
"No Play" Mounting Kits

• FM Approved Valves and Assemblies



Manual and automated valve assemblies for gas burner management applications and safety shutoff



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Other Products

Special Seats

Balls and Seal Designs



Floor Mounted Damper Drives



Fusible Link Assemblies



Lockout Mounting Kits



Special Multi-Port Valves



Steam Jacketed Valves



Limit Switches

Mounted on Manual Valves



180° Actuators



Stem Extensions



Dual Valve Assemblies

