

Fisher™ FIELDVUE™ DVC6200f Digital Valve Controller for FOUNDATION™ Fieldbus

This manual applies to:

Device Type	4602
Device Revision	4
Hardware Revision	8, 9
Firmware Revision	3.1
DD Revision	3
Instrument Level	FD, PD, AD, PST



Section 8 Parts

Parts Ordering

Whenever corresponding with your [Emerson sales office](#) or Local Business Partner about this equipment, always mention the controller serial number.

⚠ WARNING

Use only genuine Fisher replacement parts. Components that are not supplied by Emerson Automation Solutions should not, under any circumstances, be used in any Fisher instrument. Use of components not supplied by Emerson Automation Solutions may void your warranty, might adversely affect the performance of the instrument, and could cause personal injury and property damage.

Parts Kits

Note

All Standard kits with elastomers include nitrile elastomers. Extreme temperature kits include fluorosilicone elastomers.

Kit	Description	Part Number
5 *	Terminal Box Kit (continued)	
	Stainless Steel	
	Extreme Temperature	19B5401X302
	Extreme Temperature, M20	19B5401X442
	Extreme Temperature, Natural Gas Certified	19B5401X322
	Extreme Temperature, Natural Gas Certified, M20	19B5401X472
6 *	I/P Converter Kit	
	Standard	38B6041X152
	Extreme Temperature	38B6041X132
7 *	Spare Module Base Assembly Kit [kit contains module base (key 2); drive screws, qty. 2, (key 11); shield/label (key 19); hex socket cap screw, qty. 3, (key 38); self tapping screw, qty. 2 (key 49); pipe plug, qty. 3 (key 61); retaining ring, qty. 3 (key 154); screen (key 236); and flame arrestors, qty. 3 (key 243)]	
	Aluminum	GE18654X012
	Stainless Steel	GE18654X022
8 *	Spare Housing Assembly Kit, [kit contains housing (key 1); vent assembly (key 52); seal (only included in Housing A kits) (key 288); seal (key 237); O-ring (key 34); O-ring (only used with integrally mounted regulator) (key 5)]	
	Aluminum	
	<i>Housing A (used for GX actuator)</i>	
	Standard	GE48798X032
	Extreme Temperature	GE48798X042
	<i>Housing B (used for all actuators except GX)</i>	
	Standard	GE48798X072
	Extreme Temperature	GE48798X082
	Stainless Steel	
	<i>Housing B (used for all actuators except GX)</i>	
	Standard	GE48798X092
	Extreme Temperature	GE48798X102
9 *	Spare I/P Shroud Kit [kit contains shroud (key 169) and hex socket cap screw, qty. 4 (key 23)]	GE29183X012
1 *	Elastomer Spare Parts Kit (kit contains parts to service one digital valve controller)	
	Standard	19B5402X012
	Extreme Temperature	19B5402X022
2 *	Small Hardware Spare Parts Kit (kit contains parts to service one digital valve controller)	19B5403X012
3 *	Seal Screen Kit [kit contains 25 seal screens (key 231) and 25 O-rings (key 39)]	14B5072X182
4 *	Integral Mount Seal Kit (for 667 size 30i - 76i and GX actuators) [kit contains 5 seals (key 288)]	19B5402X032
5 *	Terminal Box Kit	
	Aluminum	
	Standard	19B5401X262
	Standard, M20	19B5401X422
	Standard, Natural Gas Certified	19B5401X282
	Standard, Natural Gas Certified, M20	19B5401X452
	Extreme Temperature	19B5401X272
	Extreme Temperature, M20	19B5401X432
	Extreme Temperature, Natural Gas Certified	19B5401X292
	Extreme Temperature, Natural Gas Certified, M20	19B5401X462

Kit	Description	Part Number	Key	Description	Part Number
10	Remote Mount Feedback Unit Kit (see figure 8-5) [remote housing assembly (key 25); hex socket set screw (key 58); 1/2 NPT pipe plug (key 62); wire retainer, qty 2 (key 131); terminal cover (key 255); o-ring (key 256); gasket (Housing A only, used for GX actuator) (key 287); seal (Housing A only, used for GX actuator) (key 288)]		13*	Gasket/Seal Kit, for use with GX actuator [kit contains insulating gasket (key 287) and seal (key 288)]	GE45468X012

Note

The remote mount feedback kit is not orderable by part number due to nameplate/approval requirements. Contact your [Emerson sales office](#) or Local Business Partner for information on ordering this kit.

11	Feedback Array Kit	
	Sliding Stem (Linear) [kit contains • feedback array and hex socket cap screws, qty.2, washer, plain, qty.2, external tooth lock washer, qty.2 (only with aluminum feedback array kit) and alignment template. • 210 mm (8-1/4 inch) kit contains feedback array and hex socket cap screws, qty. 4, washer, plain, qty. 4, external tooth lock washer, qty. 4 (only with aluminum feedback array kit), alignment template and insert]. Stainless steel kits only for use with stainless steel mounting kits.	
	7 mm (1/4-inch) Aluminum	GG20240X012
	19 mm (3/4-inch) Aluminum	GG20240X022
	Stainless steel	GE65853X012
	25 mm (1-inch) Aluminum	GG20240X032
	Stainless steel	GE65853X022
	38 mm (1-1/2 inch) Aluminum	GG20240X042
	Stainless steel	GE65853X032
	50 mm (2-inch) Aluminum	GG20240X052
	Stainless steel	GE65853X042
	110 mm (4-1/8 inch) Aluminum	GG20240X082
	Stainless steel	GE65853X062
	210 mm (8-1/4 inch) Aluminum	GG20243X012
	Stainless steel	GE65853X072
	Rotary [Kit contains feedback assembly, pointer assembly, travel indicator scale and M3 machine pan head screws qty.2]. Stainless steel kits only for use with stainless steel mounting kits.	
	Aluminum	GG10562X012
	Stainless steel	GG10562X022
	Rotary array kit with coupler [Kit contains feedback assembly and NAMUR coupler]	
	Aluminum	GE71982X012
	Stainless steel	GE71982X022
12	Mounting Shield Kit [kit contains shield, qty. 3 and machine screws, qty. 6]	GG05242X022

Parts List

Notes

Parts with footnote numbers are available in parts kits; see footnote information at the bottom of the page.

Contact your Emerson sales office or Local Business Partner for Part Ordering information.

Standard parts with elastomers include nitrile elastomers. Extreme temperature parts include fluorosilicone elastomers.

Key	Description	Part Number
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Housing (see figure 8-2 and 8-4)

DVC6200f and DVC6205f

1	Housing ⁽⁸⁾	
11	Drive Screw (2 req'd) (DVC6205f only)	
20	Shield (DVC6205f only)	
52	Vent, plastic ⁽²⁾	
74	Mounting Bracket (DVC6205f only)	
248	Screw, hex head (4 req'd) (DVC6205f only)	
249	Screw, hex head (4 req'd) (DVC6205f only)	
250	Spacer (4 req'd) (DVC6205f only)	
267	Standoff (2 req'd) (DVC6205f only)	
271	Screen ⁽⁸⁾	
287	Gasket, Housing A only (used for GX actuator) (DVC6200f only)	
288	Seal (used for 667 size 30i - 76i and GX actuators) (DVC6200f only)	

Common Parts

(see figure 8-2, 8-3, and 8-4)

DVC6200f and DVC6205f

16*	O-ring ⁽¹⁾ (3 req'd)	
29	Warning label, for use only with LCIE hazardous area classifications	
33	Mach Screw, pan hd, SST ⁽²⁾ (3 req'd)	
38	Cap Screw, hex socket, SST ⁽²⁾ (7) (3 req'd)	
43*	Cover Assembly (includes cover screws)	
	Standard	38B9580X022
	Extreme temperature	38B9580X032
48	Nameplate	
49	Screw, self tapping (2 req'd) ⁽⁷⁾	

*Recommended spare

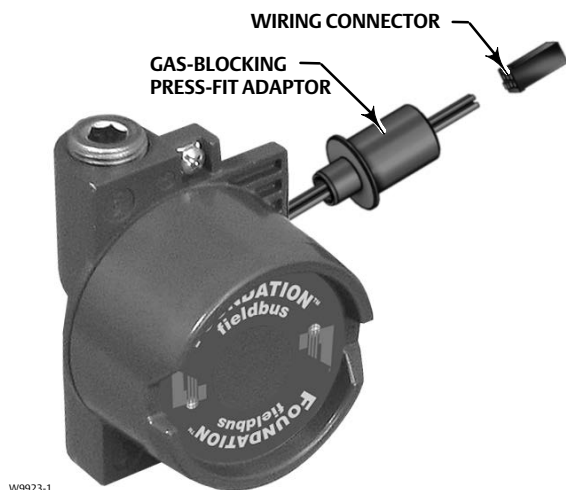
1. Available in the Elastomer Spare Parts Kit

2. Available in the Small Hardware Spare Parts Kit

7. Available in the Spare Module Base Assembly Kit

8. Available in the Spare Housing Assembly Kit

Figure 8-1. Terminal Box of Natural Gas Certified FIELDVUE DVC6200f Digital Valve Controller



Key	Description
61	Pipe Plug, hex socket ⁽⁷⁾ Housing A with relay C (2 req'd) (used for GX actuator) Housing A with relay B (1 req'd) (used for GX actuator) Housing B with relay B and C (1 req'd) (used for all actuators except GX) Not required for relay A
63	Lithium grease (not furnished with the instrument)
64	Pipe thread sealant, anaerobic (not furnished with the instrument)
65	Lubricant, silicone sealant (not furnished with the instrument)
154	Retaining Ring ⁽²⁾ (3 req'd)
236	Screen (required for relay B and C only) ⁽⁸⁾
237	Module Base Seal ⁽¹⁾

Module Base (see figure 8-2 and 8-4)

DVC6200f and DVC6205f

2	Module Base ⁽⁷⁾
11	Drive Screw ⁽⁷⁾ (2 req'd)
12	O-ring ⁽¹⁾
19	Label, Shield Assembly ⁽⁷⁾
61	Pipe Plug, hex socket ⁽⁷⁾ (3 req'd)
243	Slotted Pin (flame arrestor) ⁽⁷⁾ (3 req'd)

*Recommended spare

1. Available in the Elastomer Spare Parts Kit
2. Available in the Small Hardware Spare Parts Kit
3. Available in the Seal Screen Kit
5. Available in the Terminal Box Kit
6. Available in the I/P Converter Kit
7. Available in the Spare Module Base Assembly Kit
9. Available in the Spare Shroud Kit

Key	Description	Part Number
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I/P Converter Assembly (see figure 8-2 and 8-4)

DVC6200f and DVC6205f

23	Cap Screw, hex socket, SST ⁽²⁾ (9) (4 req'd)
39*	O-ring ⁽¹⁾ (3)(6)
41	I/P Converter ⁽⁶⁾
169	Shroud ⁽⁶⁾ (9) (not shown, see figure 7-4)
210*	Boot, nitrile ⁽¹⁾ (6) (2 req'd) (see figure 7-4)
231*	Seal Screen ⁽¹⁾ (3)(6)

Relay (see figure 8-2 and 8-4)

DVC6200f and DVC6205f

24*	Relay Assembly, (includes shroud, relay seal, mounting screws)
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Standard

Standard Bleed

Housing A (used for GX actuator)

Single-/acting direct (relay C)	38B5786X182
Single-acting reverse (relay B)	38B5786X172

Housing B (used for all actuators except GX)

Single-acting direct (relay C)	38B5786X132
Double-acting (relay A)	38B5786X052
Single-acting reverse (relay B)	38B5786X092

Low Bleed

Housing A (used for GX actuator)

Single-acting direct (relay C)	38B5786X202
Single-acting reverse (relay B)	38B5786X192

Housing B (used for all actuators except G)

Single-acting direct (relay C)	38B5786X152
Double-acting (relay A)	38B5786X072
Single-acting reverse (relay B)	38B5786X112

Extreme Temperature

Standard Bleed

Single-acting direct (relay C)	38B5786X142
Double-acting (relay A)	38B5786X032
Single-acting reverse (relay B)	38B5786X102

Low Bleed

Single-acting direct (relay C)	38B5786X162
Double-acting (relay A)	38B5786X082
Single-acting reverse (relay B)	38B5786X122

Loop Connections Terminal Box (see figure 8-2 and 8-4)

DVC6200f and DVC6205f

4	Terminal Box Cap
34*	O-ring ⁽¹⁾ (5)
36*	O-ring ⁽¹⁾ (5)
58	Set Screw, hex socket, SST ⁽²⁾
72	Cap Screw, hex socket, SST ⁽²⁾
164	Terminal Box Assembly

Key Description

Feedback Connections Terminal Box (see figure 8-4)

DVC6205f

4	Terminal Box Cap
34*	O-ring ⁽¹⁾⁽⁵⁾
36*	O-ring ⁽¹⁾⁽⁵⁾
58	Set Screw, hex socket, SST ⁽²⁾
62	Pipe Plug, hex hd, SST
262	Adapter
263*	O-ring Standard or Extreme temperature
264	Terminal Box Assembly, remote

PWB Assembly (see figure 8-2 and 8-4)

DVC6200f and DVC6205f

50*	PWB Assembly
	Standard Control
	Fieldbus Diagnostics
	Advanced Diagnostics
	Performance Diagnostic
	Partial Stroke Test
	Fieldbus Control
	Fieldbus Diagnostics
	Advanced Diagnostics
	Performance Diagnostics
	Partial Stroke Test
	Fieldbus Logic
	Fieldbus Diagnostics
	Advanced Diagnostics
	Performance Diagnostics
	Partial Stroke Test

Key Description

Pressure Gauges, Pipe Plugs, or Tire Valve Assemblies (see figure 8-3)

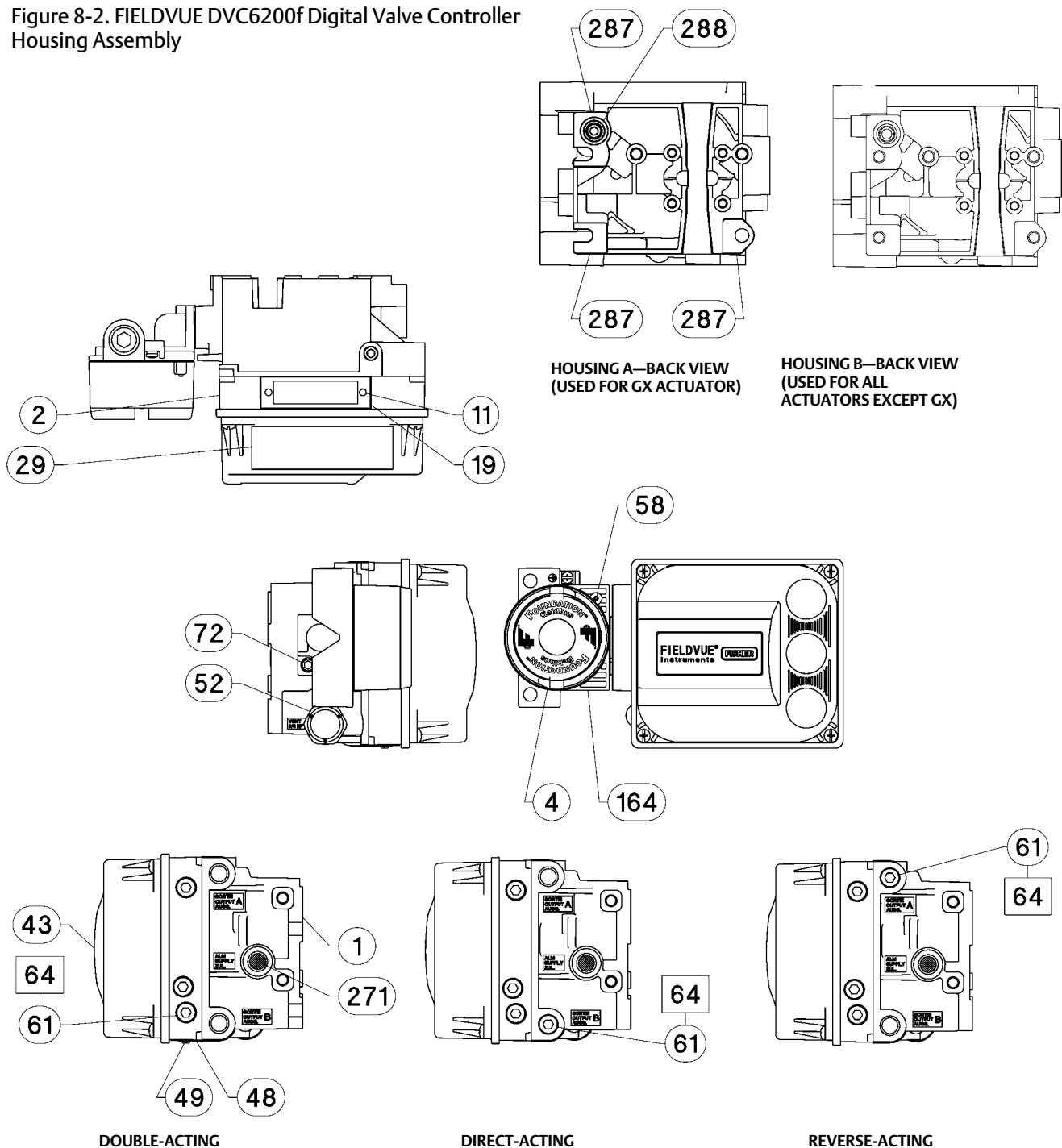
DVC6200f and DVC6205f

47*	Pressure Gauge, nickel-plated brass case, brass connection Double-acting (3 req'd); Single-acting (2 req'd) PSI/MPa Gauge Scale To 60 PSI, 0.4 MPa To 160 PSI, 1.1 MPa PSI/bar Gauge Scale To 60 PSI, 4 bar To 160 PSI, 11 bar PSI/KG/CM ² Gauge Scale To 60 PSI, 4 KG/CM ² To 160 PSI, 11 KG/CM ²
66	Pipe Plug, hex hd For double-acting and single-acting direct w/gauges (none req'd) For single-acting reverse w/gauges (1 req'd) For all units w/o gauges (3 req'd)
67	Tire Valve, used with Tire Valve Option only Double-acting (3 req'd); Single-acting (2 req'd)

DVC6215 Feedback Unit (see figure 8-5)

65	Lubricant, silicone sealant (not furnished with the instrument)
256*	O-Ring, fluorosilicone

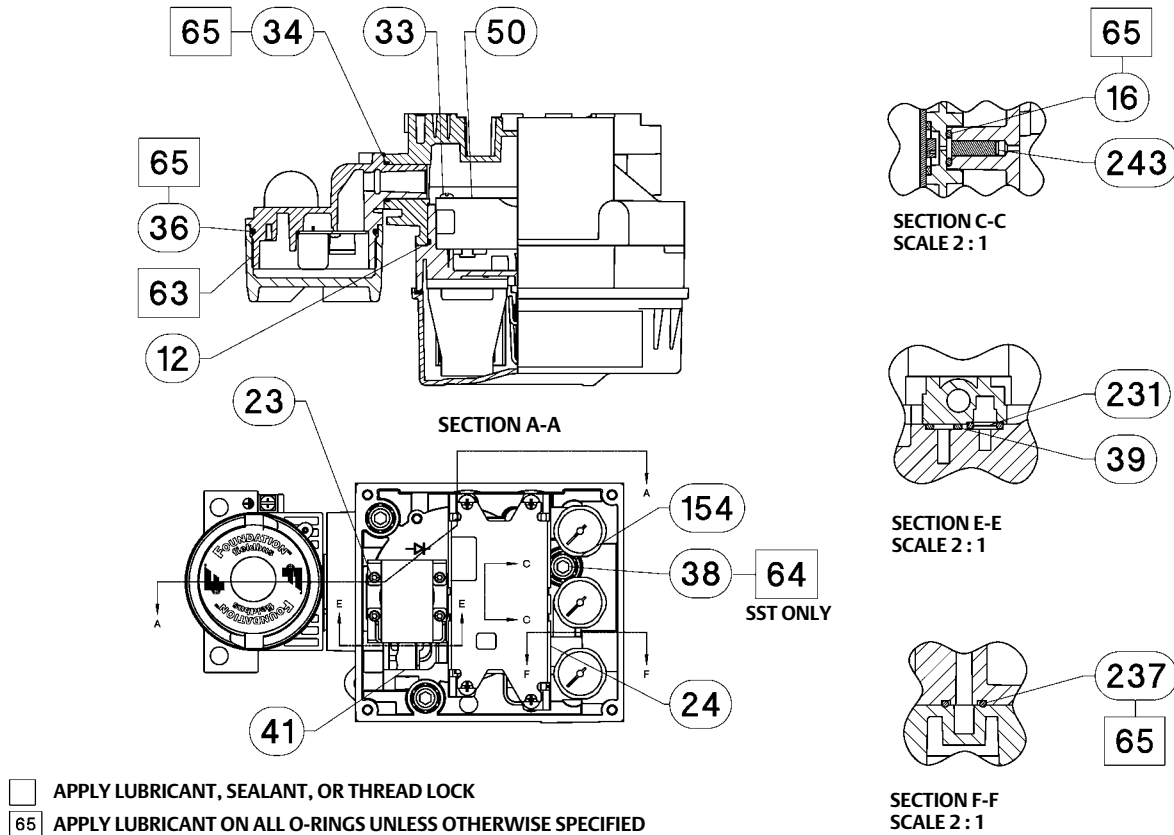
Figure 8-2. FIELDVUE DVC6200f Digital Valve Controller Housing Assembly



□ APPLY LUBRICANT, SEALANT, OR THREAD LOCK

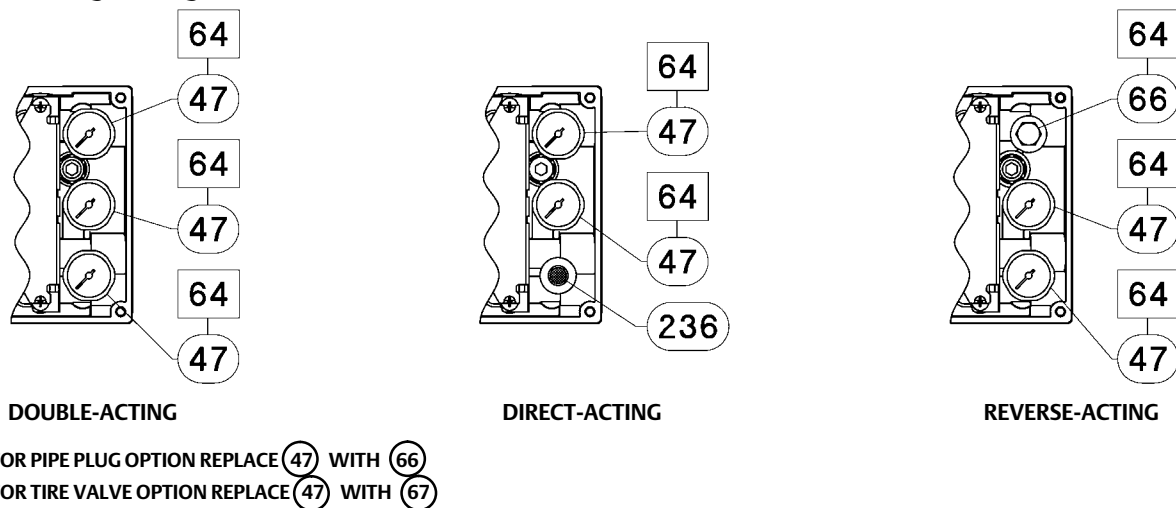
65 APPLY LUBRICANT ON ALL O-RINGS UNLESS OTHERWISE SPECIFIED

Figure 8-2. FIELDVUE DVC6200f Digital Valve Controller Housing Assembly (continued)



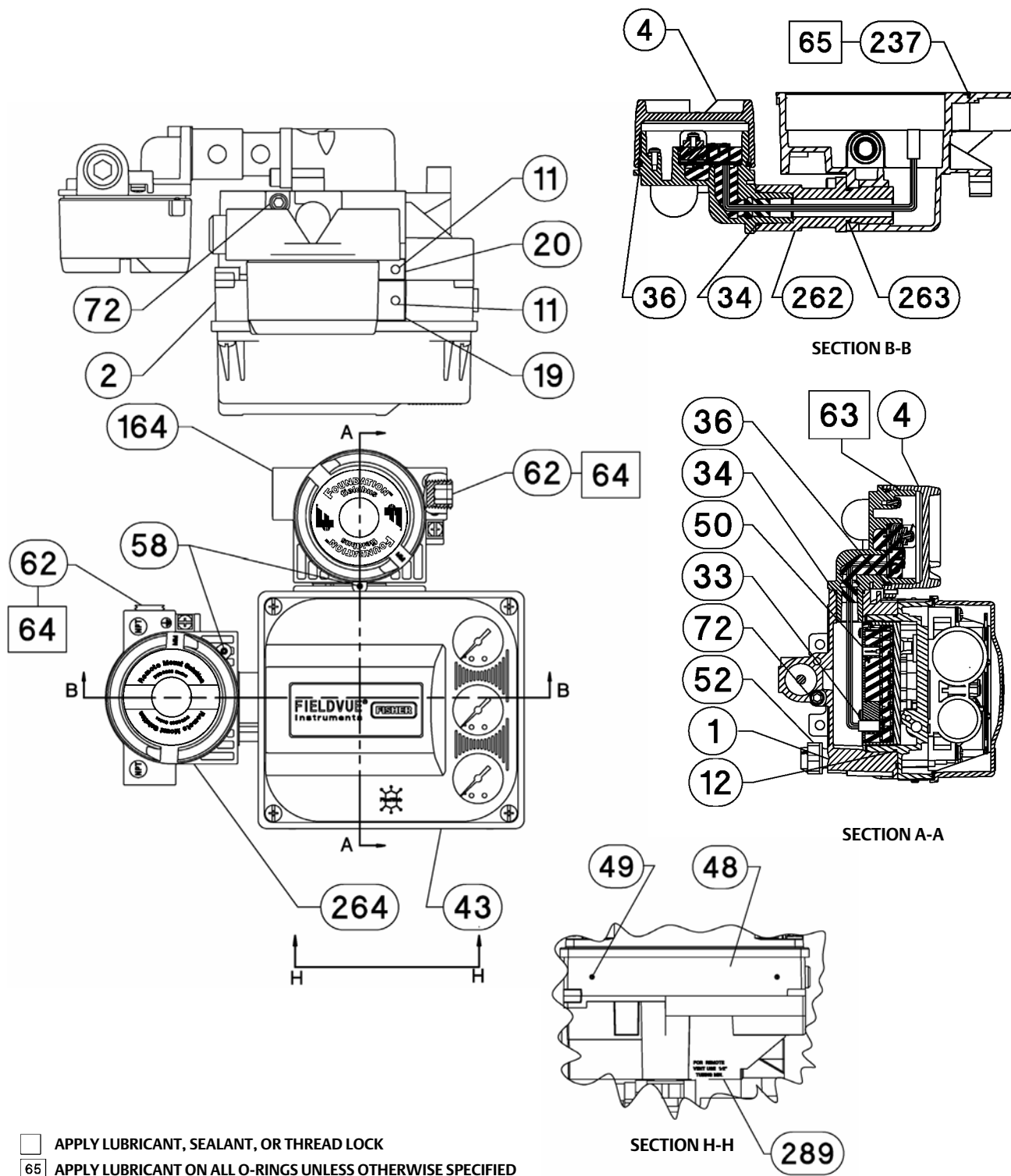
GE40185 sheet 2 of 3

Figure 8-3. Gauge Configuration



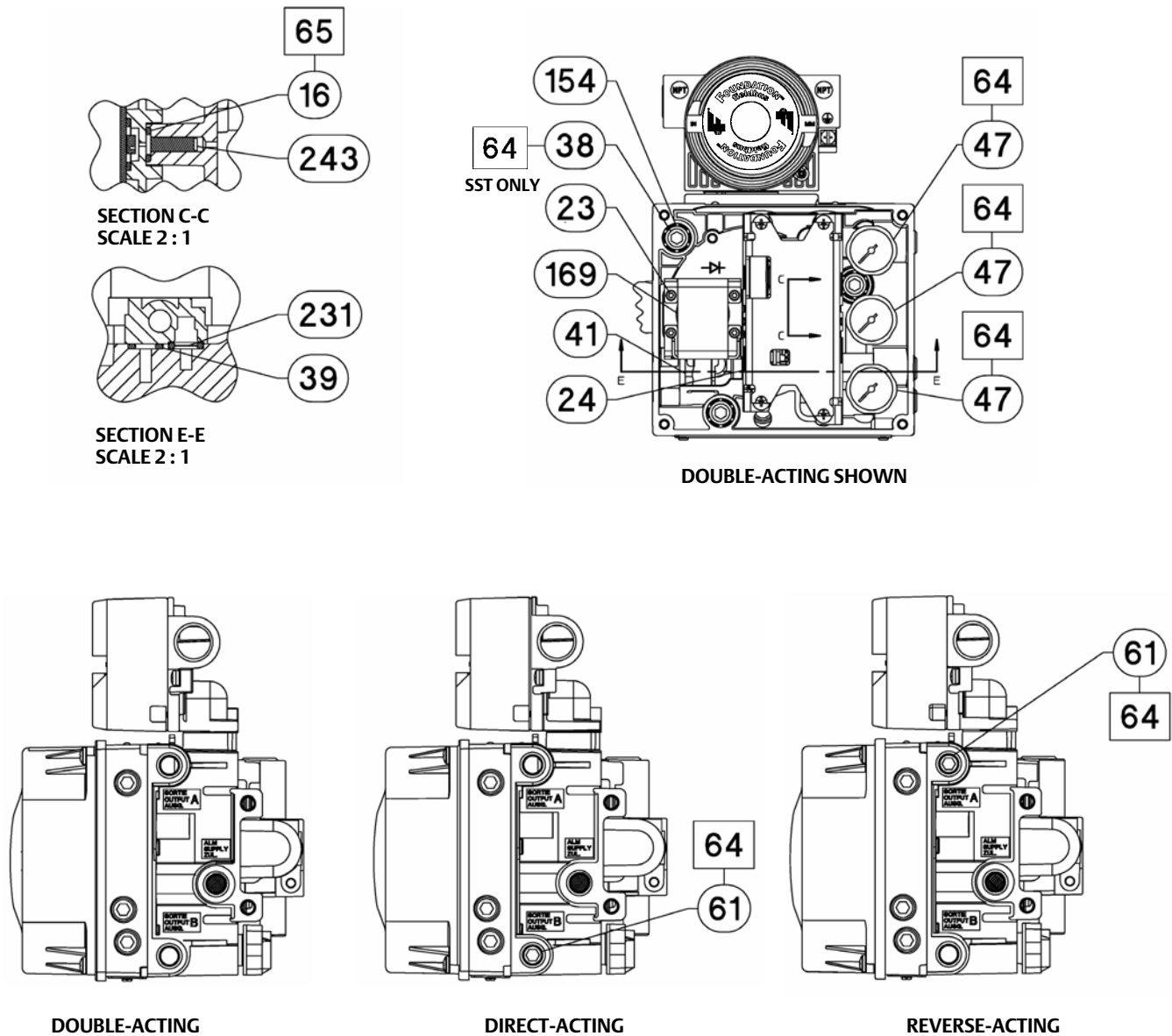
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Figure 8-4. FIELDVUE DVC6205f Base Unit Housing Assembly



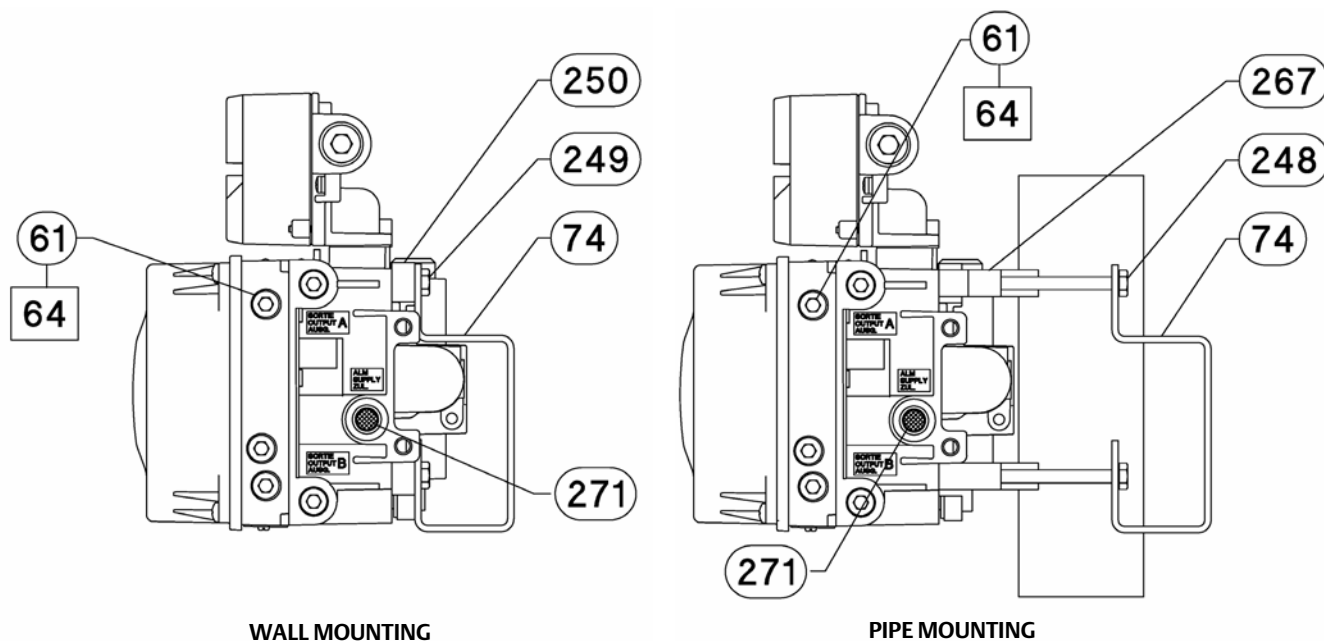
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Figure 8-4. FIELDVUE DVC6205f Base Unit Housing Assembly (continued)



GE40181

Figure 8-4. FIELDVUE DVC6205f Base Unit Housing Assembly (continued)



- ☐ APPLY LUBRICANT, SEALANT, OR THREAD LOCK
- ☒ 65 APPLY LUBRICANT ON ALL O-RINGS UNLESS OTHERWISE SPECIFIED

GE40181