

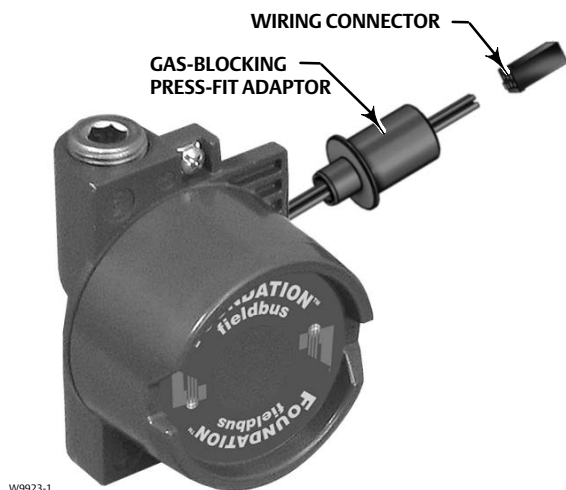
Fisher™ FIELDVUE™ DVC6200f Digital Valve Controller for FOUNDATION™ Fieldbus

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



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
-----	-------------	-------------

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)
-----	--

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)

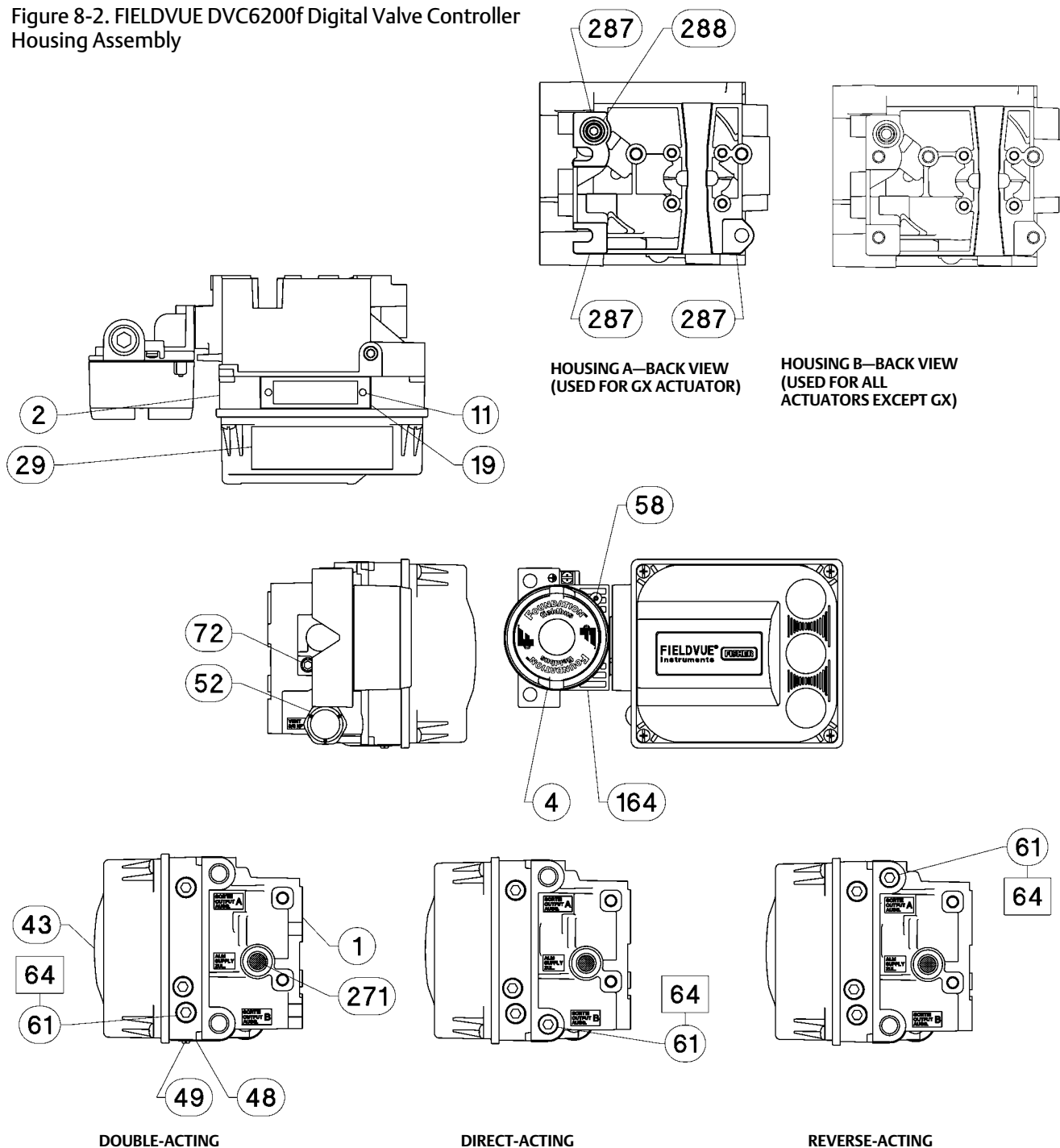
DVC6200f and DVC6205f

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

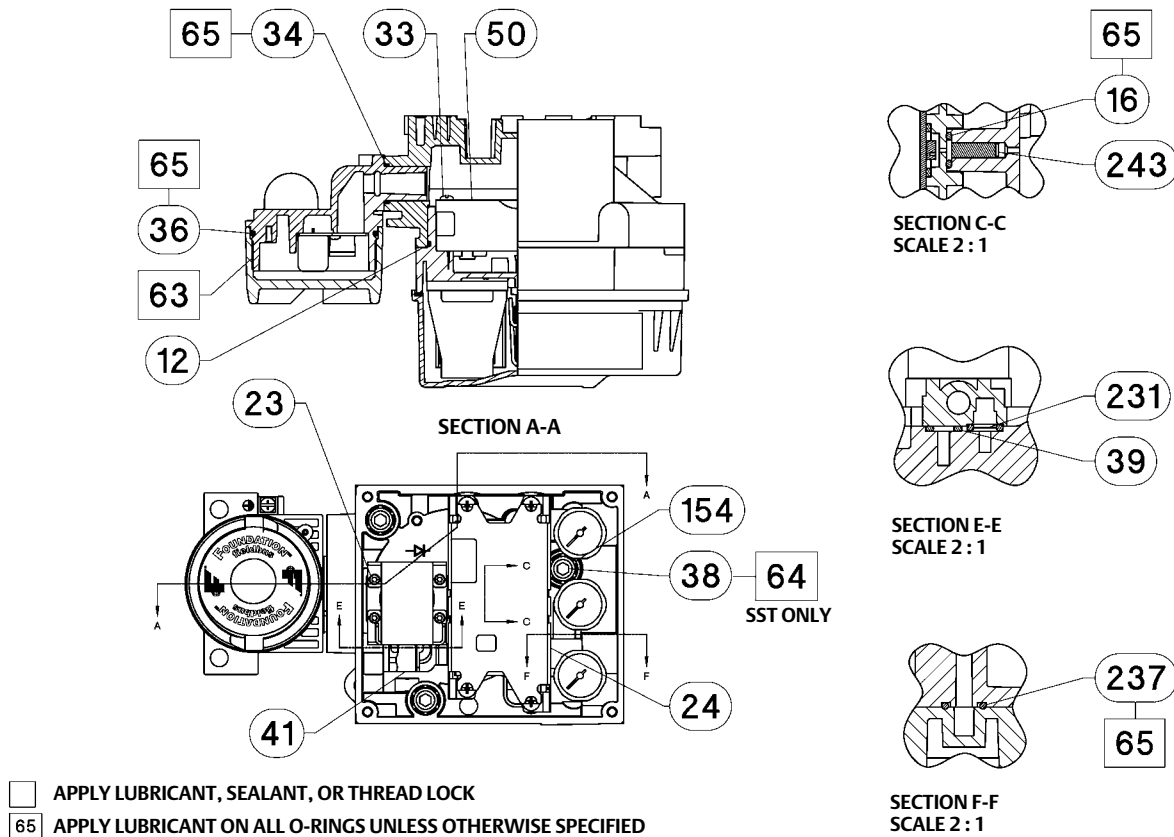
Figure 8-2. FIELDVUE DVC6200f Digital Valve Controller Housing Assembly



□ APPLY LUBRICANT, SEALANT, OR THREAD LOCK

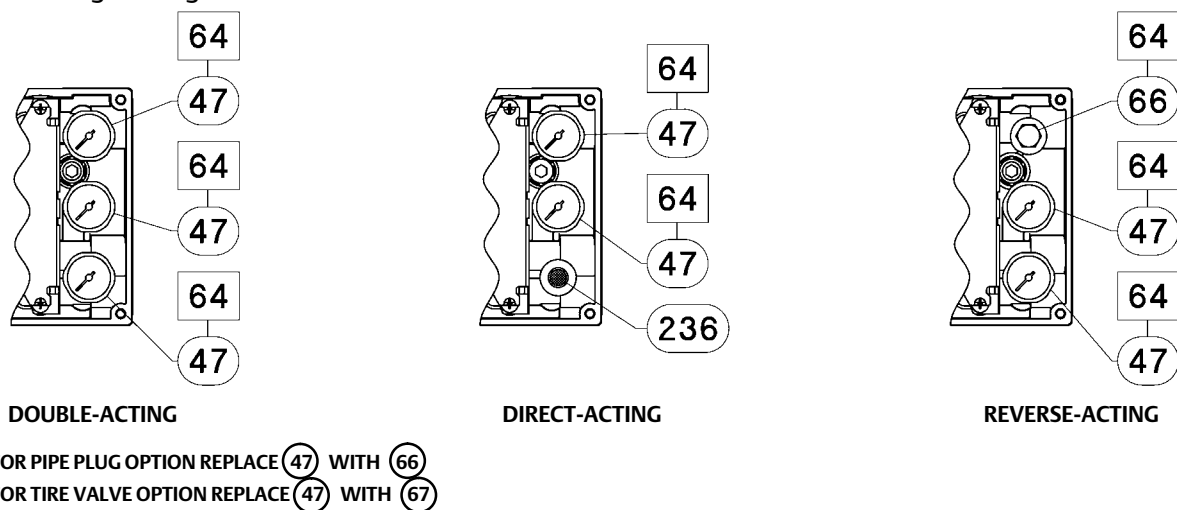
65 APPLY LUBRICANT ON ALL O-RINGS UNLESS OTHERWISE SPECIFIED

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



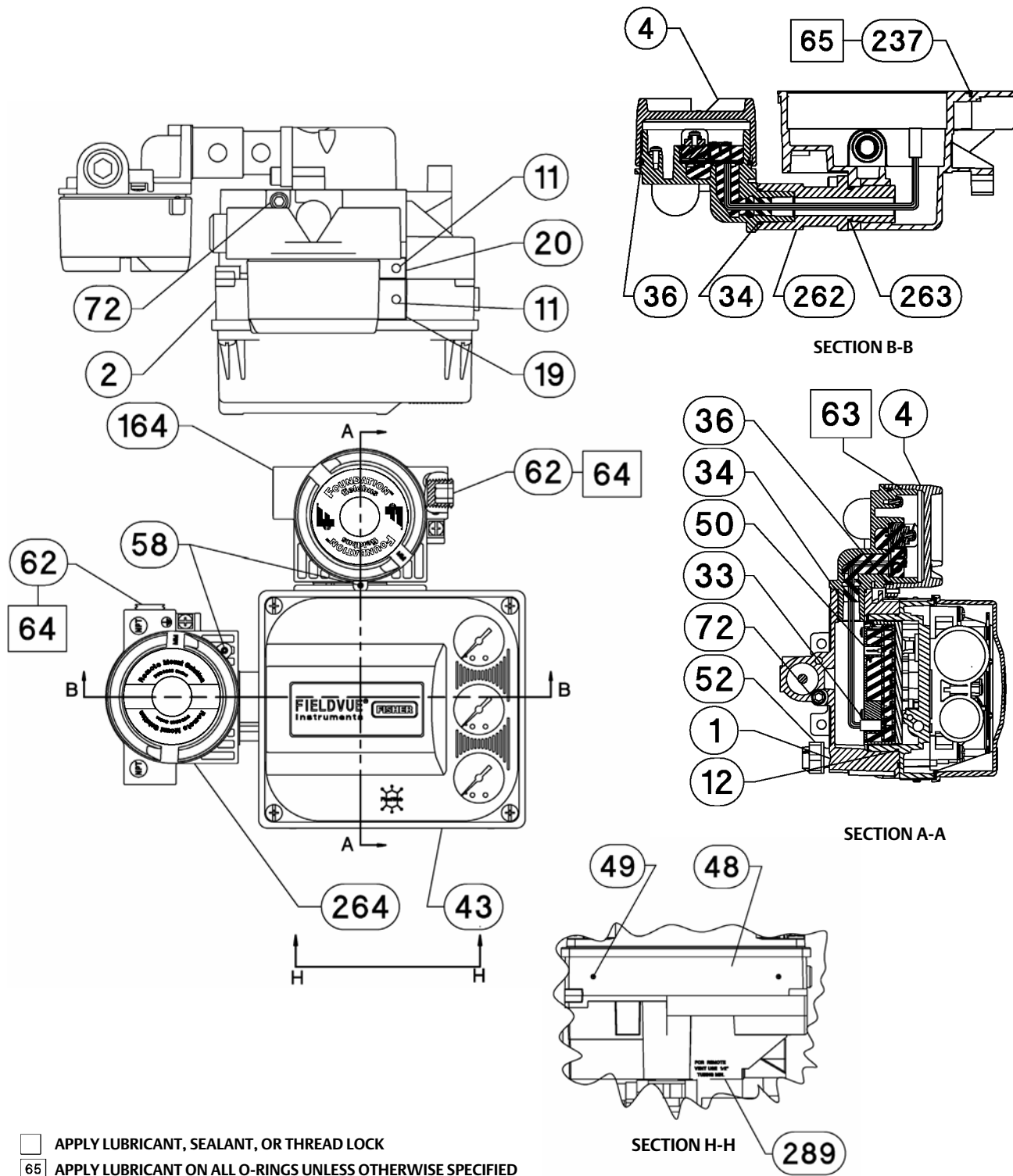
GE40185 sheet 2 of 3

Figure 8-3. Gauge Configuration



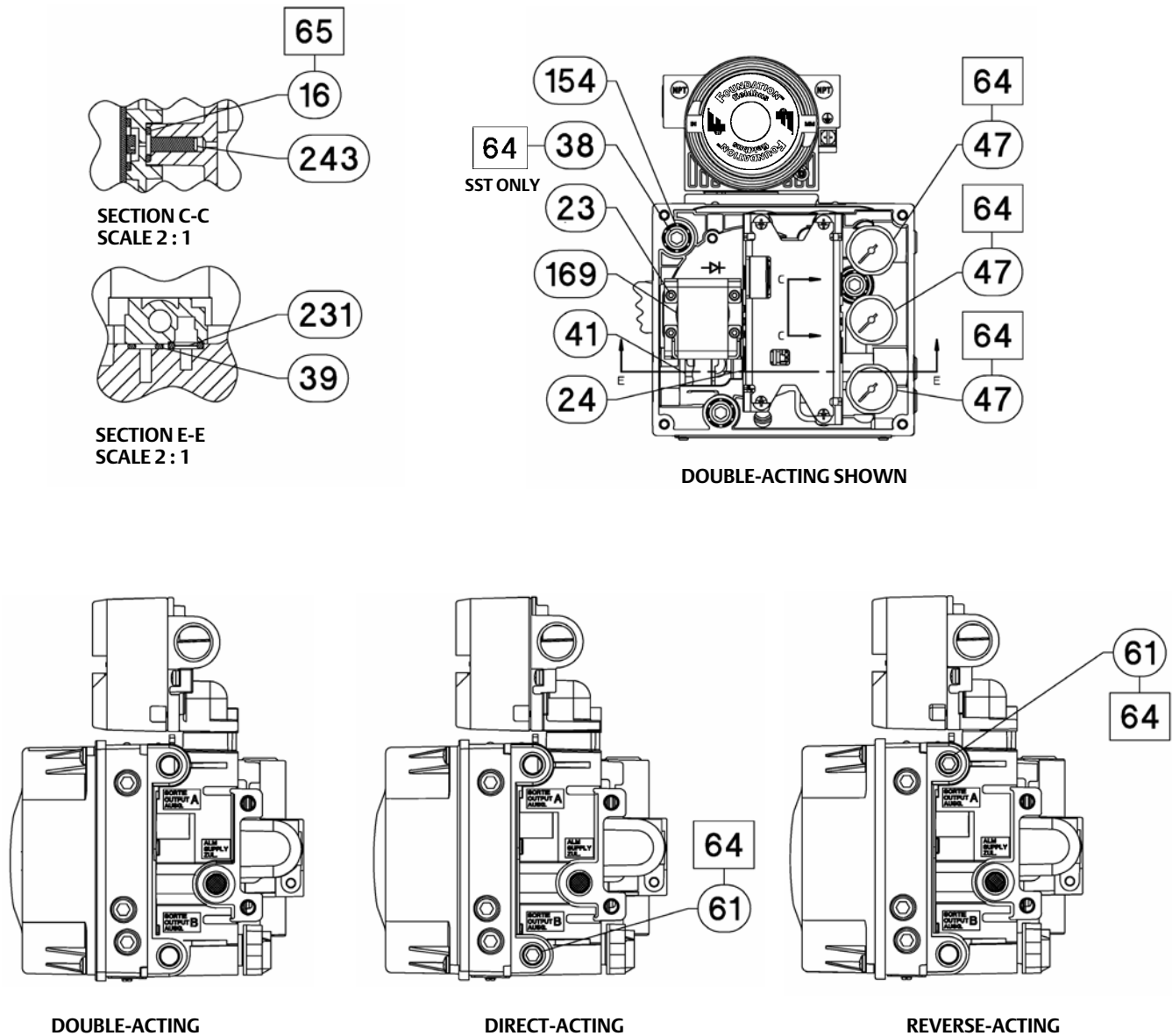
GE40185 sheet 3 of 3

Figure 8-4. FIELDVUE DVC6205f Base Unit Housing Assembly



GE40181

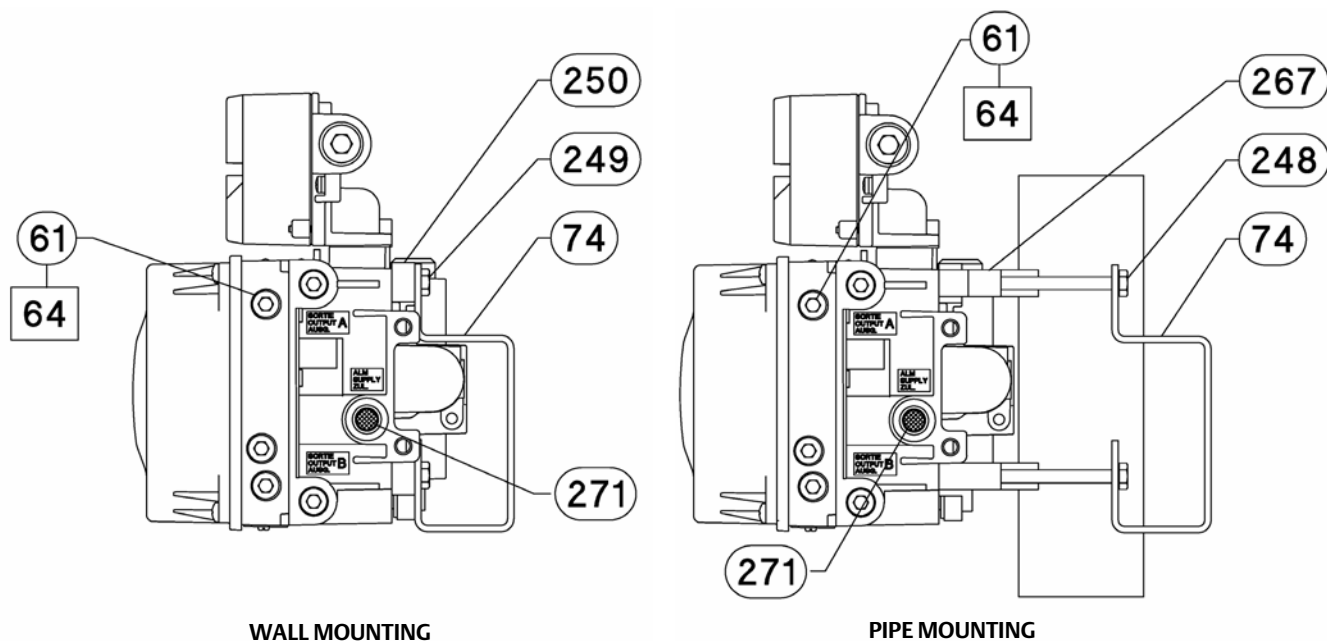
Figure 8-4. FIELDVUE DVC6205f Base Unit Housing Assembly (continued)



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

GE40181

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