



FISHER-ROSEMOUNT

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Catalog 122—Parts Kits

April 1999

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476 Series	October 1985	5/86	4660 Nozzle/Flapper	December 1983	4/87
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478-16	July 1984	5/86	4660 Set Point Assembly	December 1985	5/86
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481	December 1984	5/86	4660 Supply Test Plunger Assembly	August 1983	5/86
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6352, 6353, 6354H, 6354L, and 6354M	August 1985	5/86	(ENVIRO-SEAL) (repair)	December 1992	6/94
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6492H & 6492L	August 1992	6/94	High Performance Butterfly Valves	September 1996	9/96
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A11 & A21 (page 1 of 3)	August 1992	4/99	Packing Box Parts-Sliding Stem (HIGH SEAL) (retrofit)	February 1995	10/95
A11 & A21 (page 2 of 3)	August 1992	8/92	Packing Box Parts (Retrofit)		
A11 & A21 (page 3 of 3)	August 1992	8/92	V-Line and ēdisc [®]	September 1996	9/96
BF (non live-loading packing)	September 1983	7/94	Packing Box Parts (Repair)		
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BFC (non live-loading packing)	September 1983	7/94	S104 & S106	August 1985	2/88
BFC Packing Box Parts (ENVIRO-SEA) (Repair)	July 1994	7/94	S105C	July 1983	2/88
BFC Packing Box Parts (ENVIRO-SEAL) (Retrofit)	July 1994	7/94	S131 & S132	July 1983	2/88
CAV4	September 1983	7/94	S201, S201H, S201K, S202, & S202H	February 1988	2/88
CE (non live-loaded packing)	May 1991	5/91	S203	August 1985	2/88
CE (ENVIRO-SEAL) Repair	May 1991	5/91	S204 & S206	December 1983	12/83
CE Packing Box Parts (ENVIRO-SEAL) Retrofit	September 1993	6/97	S205 & S207	December 1983	12/83
CP Packing Box Parts (Non Live-Loaded Packing)	June 1997	6/97	S301 & S302	March 1984	2/90
CP Packing Box Parts (ENVIRO-SEAL)(Repair)	June 1997	6/97	S400	February 1990	2/90
CP Packing Box Parts (ENVIRO-SEAL)(Retrofit)	June 1997	6/97	V100 (Repair)	June 1987	2/90
CV500	May 1993	6/97	V100 (Retrofit)	June 1987	4/95
D & DA	July 1991	6/97	V150 (Repair)	April 1995	4/95
D & DA Trim Package (S31600)	December 1991	12/91	V150 (Retrofit)	December 1994	4/95
D & DA Trim Package (ceramic)	December 1991	12/91	V200 & V300 (Repair)	April 1995	4/95
Design E gaskets	April 1991	4/91	V200 & V300 (Retrofit)	December 1994	12/94
EGR	November 1998	11/98	V250	August 1985	4/99
GL (non live-loaded packing)	October 1991	11/98	V500	May 1993	4/99
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			Y692	June 1992	2/99
			Y696	June 1992	2/99
			Y750 & Y750M	February 1994	2/99

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FISHER-ROSEMOUNT™ Managing The Process Better™



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TYPE 32/32A PILOT

January 1996

Trim	Kits	
	Type 32	Type 32A
Nitrile	R32X0000012	R32AX000012
Fluoroelastomer	R32X0000022	R32AX000022

Included Parts

Key	Description	Quantity	
7	Gasket	1	1
9	Diaphragm	2	2
13	O-ring	1	1
14	O-ring	2	2
15	Sealing washer	2	2
18	Valve disk assembly	1	1
24	O-ring	1	---
25	O-ring	1	1
26	O-ring	1	1
28	Piston seat assembly	1	1
30	O-ring	1	1
32	O-ring	2	---
34	O-ring	1	1

61 SERIES PILOT

December 1983

Key numbers reference the 298 Series instruction manual. Valve springs for the 61L and 61H Series are for 300 psig (20.7 bar) and below only.

Pressure Types	Low 61LD	Low 61L & 61LE	High 61H	Extra High 61HH
Kits	R61LDX00012	R61LX000012	R61HX000012	R61HHX00012

Included Parts

Key	Description	Quantity			
8	Relay seat	1	1	1	---
9	Relay disk assembly	1	1	1	---
10	Seat ring	1	1	1	1
12	O-ring	1	1	1	1
13	Valve spring	1	1	1	1
14	Upper relay diaphragm	1	1	1	2
15	Lower relay diaphragm	1	1	1	---
26	Valve plug	1	1	1	1
28	Closing cap gasket	1	1	---	---

D101136X012

TYPE 61HP PILOT

May 1990

Construction

Standard
Oxygen service

Kits

R61HPX00022
R61HPX00032

Included Parts

Key	Description	Quantity
10	Inlet orifice	1
13	Valve plug spring	1
14	Upper diaphragm	1
15	Lower diaphragm	1
26	Valve plug assembly	1
45	Spring seat valve	1
51	Diaphragm insert	2

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FISHER-ROSEMOUNT

63 SERIES RELIEF VALVE

November 1998

Body Size, Inch	Kits		
	Nitrile	O-Ring Material Fluoroelastomer	EPR
1	REGRX000012	REGRX0FKM12	REGRX0EPR12
2	R63EGX00022	R63EGXFKM22	R63EGXEPR22
3	R63EGX00032	R63EGXFKM32	R63EGXEPR32
4	R63EGX00042	R63EGXFKM42	R63EGXEPR42
6	R63EGX00062	R63EGXFKM62	R63EGXEPR62

Included Parts

Key	Description	Quantity		
4	Gasket	1	1	1
7	Stem O-ring (only with travel indicator)	1	1	1
12	Port seal	1	1	1
14	Piston ring	1	1	1
15	Upper seal	1	1	1
17	Cage O-ring	1	1	1
20	Plug O-ring	1	1	1
21	Flange O-ring	1	1	1

Note: For actuator repair kit see Type 1098 actuator. For pilot repair kit see 98HM, 6350, or 6360 Series pilot.

Quick Change Trim Package Assembly

For main valve without travel indicator. Includes body flange, linear cage, spring, valve plug, seat ring, and standard elastomers.

Main Valve Type Number	63EG		1098-63EGR		
Maximum Set Pressure Allowable With Main Valve Spring	40 psig (2.8 bar)	125 psig (8.6 bar)	300 psig (21 bar)	65 psig (4.5 bar)	
Minimum Set Pressure Allowable With Main Valve Spring	10 psig (0.69 bar)	30 psig (2.1 bar)	85 psig (5.9 bar)	3 psig (0.21 bar)	
Main Valve Spring Color Code	Yellow	Green	Red	Green	
Cast Iron Cage and Body Flange	2-inch body	---	---	25A3169X092	
	3-inch body	---	---	25A3169X152	
	4-inch body	---	---	25A3169X222	
	6-inch body	---	---	25A3169X272	
Steel Cage and Body Flange	2-inch body	25A3169X352	25A3169X362	25A3169X372	25A3169X382
	3-inch body	25A3169X392	25A3169X402	25A3169X412	25A3169X422
	4-inch body	25A3169X432	25A3169X442	25A3169X452	25A3169X462
	6-inch body	25A3169X472	25A3169X482	25A3169X492	25A3169X502

64 SERIES REGULATORS

August 1985

Type Number	Spring Range, Psig (Bar)	Kits
64 standard construction	3 to 150 (0.2 to 10.4)	R64X0000012
64 NACE construction	3 to 150 (0.2 to 10.4)	R64X0000N12
64	130 to 200 (9 to 13.8)	R64X0000H22
64R	3 to 150 (0.2 to 10.4)	R64RX000012
64R	130 to 200 (9 to 13.8)	R64R000H22
64B	3 to 150 (0.2 to 10.4)	R64BX000012

Included Parts

Key	Description	Quantity
3	Valve spring	1
5	O-ring	1
6	Disk holder assembly	1
7	Stem	1
8	Stem guide	1
9	Diaphragm assembly	1
16	Vent screen	1

**TYPE 66, 66Z, 66ZZ PRESSURE REDUCING REGULATORS
TYPE 66R AND 66RR RELIEF VALVES**

November 1985

Repair kits include parts for standard temperature composition constructions. Type 66RR includes a Type Y611 pilot that requires spares be ordered by appropriate part numbers in addition to the Type 66 kit.

Body Size, Inch	Kits
2	R66X0000022
3	R66X0000032
4	R66X0000042

Included Parts

Key	Description	Quantity
5	Main diaphragm	1
8	O-ring	1
14	Sealing diaphragm (not required on Type 66R and 66RR)	1
18	Stem gasket (1 required on Type 66R and 66RR)	3
19	Bottom flange gasket	1
26	Closing cap gasket	1
35	Gasket	1

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67 SERIES REGULATOR

May 1987

Repair kits are for 67 Series regulators with nitrile diaphragm and valve plug, brass stem and drain valve, and cellulose filter element.

Construction

Without Relief

Standard	67	R67X0000012
NACE		R67X0000N12

With Relief

Standard	67R	R67RX000012
		R67RX000N12

Type Number and Kits

67AF	67F
R67AFX00012	R67FX000012
R67AFX00N12	NA
67AFR	67FR
R67AFRX0012	R67FRX00012
R67AFRX0N12	NA

Included Parts

Key	Description		Quantity	
4	Valve plug and stem	1	1	1
6	Valve plug spring	1	1	1
7	Diaphragm assembly	1	1	1
15	Washer	---	---	1
17	Drain valve	---	1	1
19	Gasket	---	1	1
23	Body plug gasket	1	---	---
26	Gasket	---	---	1
27	Spring Washer	---	---	1
29	Filter element	---	1	1

TYPE 67AFD FILTER

July 1982

Repair kits include brass drain valve and neoprene gasket.

Filter Material

Cellulose
Stainless steel

Kits

R67AFDX0L12
R67AFDX0L22

Included Parts

Key	Description	Quantity
3	Filter element	1
4	Retainer assembly	1
6	Gasket	1
7	Drain valve	1

67CF REGULATOR

May 2001

Repair kits are 67C Series regulators with nitile diaphragm and valve plug. Cellulose filter element.

Construction

**Kits
Type**

	67CF	67CFR
Standard	R67CFX00012	R67CFRX0012
NACE	R67CFX00N12	R67CFRX0N12

Included Parts

Key	Description	Quantity
3	Flange screw	4
4	O-ring	1
7	Filter element	1
16	Diaphragm assembly	1
26	Filter gasket	1
- - -	Valve cartridge assembly	1

67SS SERIES REGULATOR

May 1987

Type

Kits

67SS (without relief)	R67SSX00012
67SSR (with relief)	R67SSRX0012

Included Parts

Key	Description	Quantity
4	Valve plug and stem	1
6	Valve plug spring	1
7	Diaphragm assembly	1
23	O-ring	1

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TYPE 83H, 83L, AND 83U RELAYS

May 1999

Repair kits include diaphragms, O-ring seals, and gaskets. Type 83L relay is used on Type 3580, 3581, 3582, and 3583 positioners. Type 83U relay is used on Type 4170, 4180, and 4190 controllers. Type 83H relay is used on 3590 Series positioner.

Type	Seal Material		Kits
83L and 83U	Nitrile	R83LX000012	---
83L and 83U	Fluoroelastomer	R83LX000022	---
83L	EPDM	R83LX000042	---
83H	Nitrile	---	R83HX000012

Included Parts

Key	Description	Quantity
4	Diaphragm	---
5	Gasket	1
6	Valve plug	1
7	Diaphragm assembly	1
8	Diaphragm	1
11	Spring	1
13	O-ring	1
14	O-ring	1
15	O-ring (only 1 required for 83U)	3
17	O-ring	---
19	O-ring	1
21	O-ring	---

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FISHER-ROSEMOUNT

TYPE 92B MAIN VALVE AND 92P REDUCING VALVE

December 1994

Valve plug, seat ring and diaphragm are stainless steel.

Main Valve Body Size, Inch

- 1/2 & 3/4
- 1 & 1-1/4
- 1-1/2
- 2
- 2-1/2
- 3
- 4

Kits

- R92BX000012
- R92BX000022
- R92BX000032
- R92BX000042
- R92BX000052
- R92BX000062
- R92BX000072

Included Parts

Key	Description	Quantity
54	Gasket	1
56	Valve plug	1
58	Seat ring	1
60	Diaphragm	2

TYPE 92B PILOT

August 1985

Valve plug, stem, seat ring, strainer screen, and diaphragms are stainless steel. Bellow and bellows retainer are brass.

Construction

- High pressure
- Low pressure

Kits

- R92BHPX0012
- R92BLPX0012

Included Parts

Key	Description	Quantity
4	Valve plug	1
5	Seat ring	1
7	Valve plug stem	1
8	Bellows retainer	1
9	Bellows	1
10	Diaphragm	2
18	Diaphragm gasket	1
77	Strainer screen	1

D101144X012

TYPE 92C REGULATOR MAIN VALVE

July 1983

Orifice Size, Inch (mm)9/16 (14.3)
3/4 (19.1)**Kits**R92CX000022
R92CX000012**Included Parts**

Key	Description	Quantity
3	Seat ring	1
4	Valve plug	1
7	Valve plug spring	1
8	Diaphragm	2
9	Diaphragm gasket (only 2 required for cast iron body)	3

TYPE 92E STEAM REGULATOR

May 1984

Repair kits do not include main valve trim or pilot parts. Body sizes 1, 1-1/2, and 2-inch must be repaired by selecting the conversion kit parts which update the product to a Type 92S.

Body Size, Inch**Kits**

	Repair	Conversion ⁽¹⁾
1	---	R92SX000012
1-1/2	---	R92SX0000A2
2	---	R92SX000022
2-1/2	R92EX0000B2	---
3	R92EX000032	---
4	R92EX000042	---

1. To complete conversion of Type 92E to 92S, the pilot must also be changed to a Type 6492H or 6492L.

Included Parts

Key	Description	Quantity
8	Spiral wound gasket	1
16	Cotter pin	---
18	Body gasket	1
19	Body gasket	1
20	Top stem	---
24	Piston	---
25	Piston ring (1 req'd for 2-1/2 thru 4-inch bodies)	1
38	O-ring (not req'd for 1 thru 2-inch bodies)	1
40	Lock washer	---
41	Hex nut	---

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FISHER-ROSEMOUNT

TYPE 92S STEAM REGULATOR

May 1984

Repair kits do not include main valve trim or pilot parts.

Body Size, Inch

- 1
- 1-1/2
- 2
- 2-1/2
- 3
- 4

Kits

- R92SX000052
- R92SX000062
- R92SX000072
- R92EX0000B2
- R92EX000032
- R92EX000042

Included Parts

Key	Description	Quantity
8	Spiral wound gasket	1
16	Cotter pin (for 1 through 2-inch bodies only)	1
18	Body gasket (1 required for 2-1/2 through 4-inch bodies)	3
19	Body gasket	1
25	Piston ring (1 required for 2-1/2 through 4-inch bodies)	2
38	O-ring (none required for 1 through 2-inch bodies)	1

TYPE 92W WATER REGULATOR

February 1987

Repair kits do not include main valve trim or pilot parts.

Body Size, Inch

- 1
- 1-1/2
- 2
- 2-1/2
- 3
- 4

Kits

- R92SX000052
- R92SX000062
- R92SX000072
- R92EX0000B2
- R92EX000032
- R92EX000042

Included Parts

Key	Description	Quantity
8	Spiral wound gasket	1
16	Cotter pin (for 1 through 2-inch bodies only)	1
18	Body gasket (1 required for 2-1/2 through 4-inch bodies)	3
19	Body gasket	1
25	Piston ring (1 required for 2-1/2 through 4-inch bodies)	2
38	O-ring (none required for 1 through 2-inch bodies)	1

95BH, 95H, 95HD, 95HP, 95HT

TYPE 95BH, 95H, 95HD, AND 95HP REGULATORS

December 2000

NOTE: Type 95HD with metal trim requires a second diaphragm gasket (key 19). Order by appropriate part number. Packing parts for Type 95HD need to be ordered by appropriate part numbers.

Trim	Composition Trim 2/2B	Kits Composition Trim 3A	Metal Trim 1/1B
Body Size, Inch			
1/8 & 1/4	R95HX000012	R95HX000102	R95HX000052
3/8 & 1/2	R95HX000022	R95HX000112	R95HX000062
3/4 & 1	R95HX000032	R95HX000122	R95HX000072
1-1/4, 1-1/2, & 2	---	R95HX000042	R95HX000082

Included Parts

Key	Description	Quantity
3	Seat ring	1
4	Valve plug	1
10	Valve spring	1
12	Diaphragm	1
19	Diaphragm gasket	2
<i>Extra Parts for 1-1/4, 1-1/2, & 2</i>		
45	O-ring	1
47	Diaphragm gasket	---
51	O-ring	2
52	Valve spring	1

TYPE 95HT REGULATOR

May 1999

Trim	Kits Metal Trim 4A
Body Size, Inches	
1/4	R95HTX00012
1/2	R95HTX00022
3/4 & 1	R95HTX00032
1-1/2 & 2	R95HTX00042

Included Parts

Key	Description	Quantity
3	Seat ring	1
4	Valve plug	1
10	Valve spring	1
12	Diaphragm	2
19	Diaphragm gasket	1
<i>Extra Parts for 1-1/2, & 2</i>		
47	Diaphragm gasket	2

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TYPE 95BL, 95L AND 95LD REGULATORS

December 2000

NOTE: Type 95LD with metal trim requires a second diaphragm gasket (key 19). Order by appropriate part number. Packing parts for Type 95LD need to be ordered by appropriate part numbers.

Trim	Kits		
	Composition Trim 2/2B	Composition Trim 3A	Metal Trim 1/1B
Body Size, Inch			
1/8 & 1/4	R95LX000012	R95LX000102	R95LX000042
3/8 & 1/2	R95LX000022	R95LX000112	R95LX000052
3/4 & 1	R95LX000032	R95LX000122	R95LX000062

Included Parts

Key	Description	Quantity		
3	Seat ring	1	1	1
4	Valve plug	1	1	1
10	Valve spring	1	1	1
12	Diaphragm	1	1	2
19	Diaphragm gasket	---	---	1

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FISHER-ROSEMOUNT

TYPE 98H, 98HD, 98HH, AND 98HHD RELIEF VALVES

August 2001

NOTE: Types 98HD and 98HHD with metal trim require a second gasket and diaphragm gasket (keys 10 and 19). Order by appropriate part numbers. Packing parts for Types 98HD and 98HHD need to be ordered by appropriate part numbers.

Kits

Trim	Composition Trim 3	Metal Trim 4
Body Size, Inch		
1/4	R98HX000012	R98HX000042
3/8 & 1/2	R98HX000022	R98HX000052
3/4 & 1	R98HX000032	R98HX000062
1-1/4, 1-1/2, & 2	R98HX000072	R98HX000082

Included Parts

Key	Description	Quantity
3	Seat ring	1
4	Valve plug	1
10	Gasket (1-1/4 through 2-inch bodies with trim 3, none required: with trim 4, 2 required) (with Type 98HD, 2 required)	1
12	Diaphragm	1
14	O-ring (1-1/4 through 2-inch bodies)	2
19	Diaphragm gasket	---
21	O-ring retainer	1
22	O-ring	---
24	Machine screw	1

TYPE 98HM PILOT

March 1998

Kits

Trim	O-Ring Material	
	Fluoroelastomer	EPR
416 stainless steel	R98HMX00012	R98HMXEPR12
316 stainless steel	R98HMX00022	R98HMXEPR22

Included Parts

Key	Description	Quantity
3	Seat ring	1
4	Valve plug	1
10	Gasket	1
12	Diaphragm	2
19	Diaphragm gasket	2
21	O-ring retainer	1
22	O-ring	1
24	Machine screw	1
53	O-ring	1

D101152X012

TYPE 98L AND 98LD RELIEF VALVES

February 1988

NOTE: Type 98LD with metal trim requires a second gasket and diaphragm gasket (keys 10 and 19). Order by appropriate part numbers. Packing parts for Type 98LD need to be ordered by appropriate part numbers.

Trim	Kits	
	Composition Trim 3	Metal Trim 4
Body Size, Inch		
1/4	R98LX000012	R98LX000042
3/8 & 1/2	R98LX000022	R98LX000052
3/4 & 1	R98LX000032	R98LX000062

Included Parts

Key	Description	Quantity
3	Seat ring	1
4	Valve plug	1
10	Gasket	1
12	Diaphragm	1
19	Diaphragm gasket	---
21	O-ring retainer	1
22	O-ring	1
24	Machine screw	1

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99 SERIES REGULATORS

May 1990

Repair kits include parts for regulators with composition trim only. Also included are parts for pilot and P590 Series filter.

Pilot Type	Kits		
	High Pressure	Low Pressure	Extra High Pressure
Port Diameter, Inch (mm)			
7/8 (22.2)	R99HX000012	R99LX000012	R99HPX00012
1-1/8 (28.6)	R99HX000022	R99LX000022	R99HPX00022

Included Parts

Key	Description	Quantity		
7	Pusher post gasket	1	1	1
11	Diaphragm	1	1	1
16	Body gasket	1	1	1
19	Disk	1	1	1
20	Seat ring	1	1	1
57	Spring case gasket	1	1	1
<i>P590 Series Filter</i>				
2	Filter element	1	1	1
7	Gasket	1	1	1
<i>Pilot</i>				
30	Upper relay diaphragm	1	1	1
33	O-ring	1	1	---
38	Relay orifice	1	1	---
40	Lower relay diaphragm	1	1	1
48	Relay disk assembly	1	1	---
49	Bleed valve spring	1	1	1
50	Bleed valve	1	1	1
52	Bleed orifice	1	1	1
71	Closing cap gasket	---	1	---
117	Valve plug and stem	---	---	1
126	Gasket	---	---	1
129	Spring seat valve	---	---	1
150	Diaphragm insert	---	---	2
153	Seal washer	---	---	6

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D101154X012



FISHER-ROSEMOUNT

TYPE 119 CONTROL VALVE

October 1983

Seat ring is not included and must be ordered separately by appropriate part number base on port diameter and material.

Trim	Kits			
	Aluminum/Nitrile	SST/Nitrile	SST/ Fluoroelastomer	Aluminum/ Fluoroelastomer (NACE)
Port Diameter, Inch (mm)				
1/8 through 3/8 (3.2 thru 9.5)	R119X000A12	R119X00SN12	R119X00SV12	R119N0SV32
1/2 & 9/16 (12.7 & 14.3)	R119X000A22	R119X00SN22	R119X00SV22	R119N0SV42

Included Parts

Key	Description	Quantity			
4	Disk holder assembly	1	1	1	1
5	Diaphragm assembly	1	1	1	1
6	Cotter pin	1	1	1	1
8	O-ring	2	2	2	2
10	Retainer	2	2	2	2
11	O-ring	1	1	1	1
19	Wiper	2	2	2	2

122 SERIES SWITCHING VALVES

July 1982

Seat ring is not included and must be ordered separately by appropriate part number based on port diameter and material.

Type Number	Kits	
	122	122R
Trim Material		
Stainless steel	R122X000022	R122RX00022
Brass	R122X000012	R122RX0012

Included Parts

Key	Description	Quantity	
9	Diaphragm	1	1
12	O-ring	3	3
13	Backup ring	5	5
18	Washer	3	3
21	Body gasket	1	1
22	Disk holder assembly	1	1

126-PJ SERIES CONTROL VALVES

July 1983

Repair kit for Types 126-PJ and 126-PJA include body spares only, less seat ring. Kit includes parts to retrofit old style to new style disk attachment. Seat rings must be selected by port diameter and ordered separately by part number.

Kit

R126-PJAX12

Included Parts

Key	Description	Quantity
4	Disk	1
6	O-ring	2
7	O-ring	2
8	Guide bushing	2
11	Backup washer	1
12	O-ring	1
13	Disk washer	1
14	Cap screw	1

126-PQ SERIES CONTROL VALVES

May 1988

Repair kits are for the body portion only of the 126-PQ Series.

Type Number

**Kits
Packing**

	PTFE V-ring	Nitrile/Cotton
126-PQ & 126-PQA	RPQX0000012	RPQX0000022
126-PQC 7 126-PQF	RPQCX000012	RPQCX000022

Included Parts

Key	Description	Quantity
<i>126-PQ & 126-PQA</i>		
5	Lower wiper	1
8	Packing set	---
8	Packing O-ring	6
10	Stem O-ring	1
11	Stem O-ring	1
12	Cage O-ring	1
35	Diaphragm casing O-ring	1
<i>126-PQC & 126-PQF</i>		
8	Packing set	---
8	Packing ring	6
10	Stem O-ring	1
11	Stem O-ring	1
12	Cage O-ring	1
35	Diaphragm casing O-ring	1

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FISHER-ROSEMOUNT

TYPE 126-PT SERIES CONTROL VALVES

September 1988

Repair kits are for the body portion only of 126-PT Series. Retrofit kits include parts to update 126-PT Series bodies constructed prior to March 1981.

REPAIR KITS

Seal Material	Body Size, Inch	Packing	
		PTFE V-Ring	Nitrile/Cotton
Nitrile	1	R126-PTX142	R126-PTX162
Nitrile	2	R126-PTX242	R126-PTX262
Fluoroelastomer	1	R126-PTX172	R126-PTX192
Fluoroelastomer	2	R126-PTX272	R126-PTX292

RETROFIT KITS

No seal	1	R126-PTX112	R126-PTX122
No seal	2	R126-PTX212	R126-PTX222

Included Parts

Key	Description	Quantity	
<i>Repair</i>			
12	Lower wiper	---	1
15	O-ring, cage	1	1
16	O-ring, bonnet	1	1
17	O-ring, stem	1	1
22	O-ring, casing	1	1
33	Bearing	1	1
34	Packing set	1	1
35	Stem bearing	1	1
<i>Retrofit</i>			
10	Washer	2	2
11	Spring	1	1
12	Lower wiper	---	1
13	Stem bushing	1	1
34	Packing set	1	1
35	Stem bearing	1	1

128-PQ SERIES CONTROL VALVES

March 1998

Repair kits are for the body portion only of 128-PQ Series.

Type Number

128-PQ & 128-PQA
128-PQC & 128-PQF

	Kits Packing	
	PTFE V-Ring	Nitrile/Cotton
	RPQX0000012	RPQX0000022
	RPQCX000012	RPQCX000022

Included Parts

Key Description

Quantity

128-PQ and 128-PQA

5	Lower wiper	---	1
8	Packing set	1	1
10	Stem O-ring	1	1
11	Stem O-ring	1	1
12	Cage O-ring	1	1
35	Diaphragm casing O-ring	1	1

128-PQC and 128-PQF

8	Packing set	1	---
8	Packing ring	---	6
10	Stem O-ring	1	1
11	Stem O-ring	1	1
12	Cage O-ring	1	1
35	Diaphragm casing O-ring	1	1

133 SERIES REGULATORS

July 1982

Kit

R133HX00012

Included Parts

Key Description

Quantity

2	Seat ring	1
4	O-ring	1
6	Bearing	1
10	Closing cap gasket	1
15	Diaphragm	1
17	Sealing washer	2
19	O-ring (1 only for Type 133Z)	2
22	Diaphragm	1
24	Guide bushing	1
28	Valve disk assembly	1
32	O-ring	1
40	Thrust washer (Type 133H only)	1

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FISHER-ROSEMOUNT

TYPE 161 AND 161M PILOTS

March 1998

Type Number	Spring Range, Psig (Bar)	Kits	
		Standard Diaphragm	Pressure-Loaded Diaphragm
161	5 to 15 (.34 to 1.0)	R161X000012	R161X000032
	10 to 125 (.69 to 8.6)	R161X000012	R161X000032
	120 to 300 (8.3 to 20.7)	R161X000022	NA
161H	250 to 600 (19.2 to 41.4)	R161HX00012	NA
161HM	250 to 600 (19.2 to 41.4)	R161HMX0012	NA
161M	5 to 15 (.34 to 1.0)	R161MX00012	R161MX00032
	10 to 125 (.69 to 8.6)	R161MX00012	R161MX00032
	120 to 300 (8.3 to 20.7)	R161MX00022	NA

Included Parts

Key	Description	Quantity	
4	Valve plug and stem	1	1
6	Valve plug spring	1	1
7	Diaphragm assembly	1	1
15	O-ring	1	1
17	Gasket	1	1
19	Seal stem guide assembly (Types 161HM & 161M only)	1	1
22	O-ring (Types 161HM & 161M only)	1	1
23	O-ring (Types 161H and 161HM only)	1	---

TYPE 161AY AND 161AYM PILOTS

February 1999

Repair kit is for stainless steel trim. Diaphragm, disk, and O-ring material is nitrile.

NOTE: Orifice is not included and if required must be specified separately by appropriate part number.

Kit RY690AX0012

Included Parts

Key	Description	Quantity
10	Diaphragm	1
11	Body O-ring	1
12	Insert O-ring	1
13	Disk holder assembly	1
15	Cotter pin	1
30	Stem O-ring (161AYM only)	1
31	Throat O-ring (161AYM only)	1
33	Screw (161AYM only)	1
48	Post O-ring	1
49	Conn O-ring	1

D10131X012

TYPE 161EB AND 161EBM PILOTS

March 1998

Type Number	Spring Range, Psig (Bar)	Kits	
		Standard Diaphragm	Pressure Loaded Diaphragm
161EB	5 to 15 (.34 to 1.0)	R161X000012	R161X000032
	10 to 40 (.69 to 2.8)	R161X000012	R161X000032
	30 to 75 (2.1 to 5.2)	R161X000012	R161X000032
	70 to 140 (4.8 to 9.7)	R161X000012	R161X000032
	130 to 200 (9.0 to 13.8)	R161X000012	---
	200 to 350 (13.8 to 24.1)	R161X000022	---
161EBH	250 to 450 (17.2 to 31.0)	R161HX00012	---
	400 to 700 (27.6 to 48.3)	R161HX00012	---
161EBHM	250 to 450 (17.2 to 31.0)	R161HMX0012	---
	400 to 700 (27.6 to 48.3)	R161HMX0012	---
161EBM	5 to 15 (.34 to 1.0)	R161MX00012	R161MX00032
	10 to 40 (.69 to 2.8)	R161MX00012	R161MX00032
	30 to 75 (2.1 to 5.2)	R161MX00012	R161MX00032
	70 to 140 (4.8 to 9.7)	R161MX00012	R161MX00032
	130 to 200 (9.0 to 13.8)	R161MX00012	---
	200 to 350 (13.8 to 24.1)	R161MX00022	---

Included Parts

Key	Description	Quantity	
4	Valve plug and stem	1	1
6	Valve plug spring	1	1
7	Diaphragm assembly	1	1
15	O-ring	1	1
17	Gasket	1	1
19	Seal stem guide assembly (Types 161EBHM & 161EB only)	1	1
22	O-ring (Types 161EBHM & 161EBM only)	1	1
23	O-ring (Types 161EBH and 161EBHM only)	1	---

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FISHER-ROSEMOUNT™

TYPE 161Y AND 161YM PILOTS

September 1988

Spring Range

- 5 to 15 inches wc (12 to 37 mbar)
- 11 to 28 inches wc (27 to 70 mbar)
- 1 to 2-1/2 psig (69 to 174 mbar)
- 2-1/2 to 4-1/2 psig 174 to 312 mbar)
- 4-1/2 to 7 psig (0.3 to 0.5 bar)

Kits

- R161YX00012
- R161YX00012
- R161YX00022
- R161YX00022
- R161YX00022

Included Parts

Key	Description	Quantity
5	Diaphragm/head assembly	1
15	O-ring (Type 161YM only)	1
16	Gasket	1
25	Disk holder assembly	1
35	Gasket	1
78	Gasket	1

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164 SERIES REGULATORS

July 1982

Type Number

164 [spring range 0 to 150 psig (0 to 10.3 bar)]
 164 [spring range 130 to 200 psig (9.0 to 13.8 bar)
 (spring number 1P9013)]
 164

Kit

R164X000012
 R164X000022
 R164AX00012

Included Parts

Key	Description	Quantity
3	Valve spring	1
5	O-ring	2
6	Valve disk assembly	1
9	Diaphragm assembly	1
16	Vent screen	1

166 SERIES REGULATORS

November 1985

Type Number

166-2 & 166-4
 155-5, 166-6, & 166-7

Kits

R166X000012 ---
 --- R166X000022

Included Parts

Key	Description	Quantity	Quantity
2	Closing cap gasket	1	1
15	Diaphragm	1	1
19	O-ring (qty 2 on Type 166-7)	3	3
21	Diaphragm casing gasket	1	---
22	Flange gasket	2	2
28	Disk assembly	2	2
35	O-ring	1	1
42	Sealing washer	1	1
54	Gasket (not req'd on Types 166-2, 166-5, or 166-7)	1	1

TYPE 167A SWITCHING VALVE

July 1982

Trim

Nitrile
Fluoroelastomer

Kits

R167AX00012
R167AX00022

Included Parts

Key	Description	Quantity
4	Valve plug	1
7	Diaphragm assembly	1
15	Stem guide assembly	1
22	Gasket	1
23	Gasket	1
24	Valve plug spring	1
25	Retaining ring	1

TYPE 171F AND 171L FLOAT AND LEVER VALVES

July 1983

Body Size, Inch

3/8 through 3/4
1
1-1/4 & 1-1/2
2

Elastomer Materials and Kits

EPT (Standard)	Fluoroelastomer
R171FX00S12	R171FX00V12
R171FX00S22	R171FX00V22
R171FX00S32	R171FX00V32
R171FX00S42	R171FX00V42

Included Parts

Key	Description	Quantity	
2B	O-ring	1	1
2E	Seat ring	1	1
5	Pilot valve assembly	1	1
7	Packing	1	1
26	Piston ring	1	1
27	Expander	1	1
28	O-ring (none required on 3/8 through 3/4-inch)	1	1

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Catalog 122

249 SERIES DISPLACER SENSORS

May 2002

Torque tube assembly is standard wall K-Monel.

Type Number

		Kits
249	R249X000022	---
249B	R249BX00012	---
249B Monel	R249BX00022	---
249BP, 249P	---	R249X000012
249K	R249KX00012	---

Included Parts

Key	Description		Quantity
9	Torque tube assembly	1	1
11	Cotter springs	2	2
12	Cage gasket (Type 249 Class 125 & Type 249B)	1	---
12	Cage gasket (Type 249 Class 250)	1	---
13	Arm gasket	1	1
14	Torque tube end gasket	1	1

249A SERIES DISPLACER SENSORS

August 1987

Torque tube assembly is standard-wall Hastelloy C. NOTE: Cage flange gasket is not included and must be ordered by specific part number based on product type.

Kit	R249AX00012
------------	-------------

Included Parts

Key	Description	Quantity
9	Torque tube assembly	1
11	Blind flange gasket (not required on Types 249A & 249AP)	1
12	Torque tube flange gasket	1

TYPE 259B DISPLACER SENSOR

May 2002

Torque tube assembly is standard-wall K-Monel.

	Kits
Standard Trim	R249BX00012
Monel Trim	R249BX00022

Included Parts

Key	Description	Quantity
9	Torque tube assembly	1
11	Cotter springs	2
12	Cage gasket	1
13	Arm gasket	1
14	Torque tube end gasket	1

TYPE 268T SENSOR

July 1995

Repair kit includes recommended spares with nitrile O-rings.

Kit R268TX0012**Included Parts**

Key	Description	Quantity
13	O-ring	1
14	Anti-extrusion O-ring	1
16	O-ring	1
17	Backup ring	1

TYPE 289A & B, 289L, AND 289U RELIEF VALVES

May 1984

Type Number	289A & B	289L (3/4-inch)	289L (1-inch)	289U
Trim				
Nitrile	---	R289LX00012	R289LX00022	R289UX00012
Neoprene	R289AX00012	---	---	---

Included Parts

Key	Description	Quantity			
5	Diaphragm assembly	1	1	1	1
9	Screen	1	1	1	1
15	Gasket	---	1	1	---

TYPE 289H, 289HH, AND 289P RELIEF VALVES

July 1990

Type Number	289H (1-inch)	289H & 289P ⁽¹⁾ (2-inch)	289HH & 289P ⁽¹⁾ (1-inch)
Trim			
Nitrile	R289HX00012	R289HX00022	R289HX00012
Fluoroelastomer	R289HX00032	R289HX00042	R289HX00032

Included Parts

Key	Description	Quantity		
5	Diaphragm assembly	1	1	1
9	Screen	1	1	1
15	Gasket	1	1	1
19	Gasket	1	3	1
20	O-ring	1	1	1
30	O-ring	2	---	2
38	Gasket	---	1	---

1. Type 289P available only in nitrile.

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FISHER-ROSEMOUNT™

TYPE 298T ACTUATOR

November 1987

Repair kits for use with Design A, E, and K bodies.

Actuator Size	Kits	
	40	50
	R298TX00402	R298TX00502

Included Parts

Key	Description	Quantity	
3	Diaphragm	1	1
10	O-ring	1	1
12	O-ring	- - -	1
13	O-ring	2	1
17	O-ring (size 50-quantity of 1 for Design A & K)	1	2
20	O-ring (size 40-for Design A & K only)	2	1
22	O-ring (Design E only)	1	1
38	O-ring (size 40-for Design A & K only; size 50-quantity of 1 for Design A & K)	1	2
38	O-ring (Design E only)	3	- - -
51	O-ring (Design E only)	1	- - -
53	Gasket	2	2
56	O-ring	2	2

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FISHER-ROSEMOUNT

TYPE 298T-EK REGULATOR

January 1996

Repair kits include parts for Type 298T actuator and Design EK body less the valve plug, stem, ring, and pilot parts. Note: Kits include current design port seal. Units constructed prior to February 1972 will require a new seat ring. Order by appropriate part number.

Body Size, Inch	Kits		
	2	3	4
Actuator Size	40	40	50
	R298T-EKX12	R298T-EKX22	R298T-EKX32

Included Parts

Key	Description	Quantity		
<i>Type 298T Actuator</i>				
3	Diaphragm	1	1	1
10	O-ring	1	1	1
12	O-ring	---	---	1
13	O-ring	2	2	1
17	O-ring	1	1	2
20	O-ring	---	---	1
22	O-ring	1	1	1
38	O-ring	3	3	2
51	O-ring	1	1	---
53	Gasket	2	2	2
56	O-ring	2	2	2
<i>Design EK Body</i>				
6	Piston ring	1	1	1
10	Bonnet gasket	1	1	1
12	Spiral wound gasket	1	1	1
13	Seat ring gasket	1	1	1
26	Upper seal	1	1	1
27	Port seal	1	1	1
28	Cage retainer O-ring	1	1	1

TYPE 299 REGULATOR

November 1996

Kit	R299X000012
-----	-------------

Included Parts

Key	Description	Quantity
8A	Diaphragm	1
8C	Pad	1
9	O-ring	1
13	Disc holder assembly	1
14	O-ring	1
15	O-ring	1
28	Diaphragm assembly	1
49	O-ring	1
52	Disc assembly	1
53	O-ring	1
54	O-ring	1
60	Screw	2
61	O-ring	2

TYPE 310/310A REGULATOR

January 1996

Repair kits include part for Type 310/310A main valve only. See Type 32/32A for pilot repair kits.

Diaphragm and O-Ring Material Body Size, Inch	Kits	
	Nitrile	Fluoroelastomer
1	R310X000012	R310X000022
2	R310X000032	R310X000042
3	R310X000052	R310X000062
4	R310X000072	R310X000082

Included Parts

Key	Description	Quantity	
6	Diaphragm	1	1
9	O-ring	3	3
11	Sealing washer (1-inch body)	1	1
11	O-ring (2-through 4-inch body)	1	1
17	O-ring	1	1
19	Wiper ring	1	No longer required
26	Backup ring	4	4
27	Disk	1	1
29	Body gasket	1	1

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FISHER-ROSEMOUNT

350 SERIES ACTUATOR

August 1988

Kit

R350X000012

Included Parts

Key	Description	Quantity
1B	Oil seal [2-13/16 inch (72 mm) & 3-9/16 inch (90 mm) yoke boss]	1
1B	Oil seal [5 & 5H-inch (127mm) yoke boss]	1
8A	Oil seal	1
8F	O-ring	1
11	O-ring	1
12	O-ring	2
14	O-ring	1
15	O-ring [2000 lb (8900 N) thrust]	1
15	O-ring [5000 lb (22200 N) thrust]	1
18	O-ring	1
23	O-ring	3
63	O-ring	3
74	O-ring (quantity 2 required without bypass)	3
78	O-ring (with bypass)	1
82	Casing gasket	1
83	Cover gasket	1
84	Terminal box gasket	1
117	Filter element	1
136	Backup ring [2000 lb (8900 N) thrust]	2
136	Backup ring [5000 lb (22200 N) thrust]	2
137	Backup ring	2
192	O-ring [2000 lb (8900 N) thrust]	2
192	O-ring [5000 lb (22200 N) thrust]	2
194	O-ring [5000 lb (22200 N) thrust]	4
196B	Pump assembly gasket	2

357 SERIES CONTROL VALVE

April 1996

Repair Kits For The Body Portion Only.

Seal Material	Kits	
	PTFE V-Ring	Nitrile/Cotton
Nitrile	R357XPTFE12	R357X00NC12
Fluoroelastomer	R357XPTFE22	R357X00NC22

Included Parts		Quantity	
Key	Description		
6	Cage O-ring	1	1
11	Bonnet O-ring	1	1
12	Lower wiper	1	1
15	Packing set	1	1

Repair Kits For The Body And Actuator Assembly

Diaphragm is not included and must be ordered separately by appropriate part number.

Seal Material	Kits	
	PTFE V-Ring	Nitrile/Cotton
Nitrile	R357X000012	R357X000022
Fluoroelastomer	R357X000032	R357X000042

Included Parts		Quantity	
Key	Description		
6	Cage O-ring	1	1
11	Bonnet O-ring	1	1
12	Lower wiper	1	1
15	Packing set	1	1
18	Casing O-ring	1	1
19	Stem O-ring	1	1
20	Bonnet bushing	1	1
28	Actuator O-ring	1	1
44	Travel indicator O-ring (direct acting only)	1	1
48	Adjustable stem bushing (direct acting only)	1	1
49	Actuator stem O-ring (direct acting only)	1	1

Nitrile Diaphragm

Actuator Size	Part Number
20	32B3520X012
40	22B3521X012

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FISHER-ROSEMOUNT

357 SERIES BODY TRIM PACKAGE

March 1998

Trim package includes ceramic (VTC) seat assembly, ceramic (VTC) valve plug, cage, and spirol pin. The Design 357 O-ring and packing repair kit may also be required when repairing or retrofitting. Order by appropriate part number.

Port Diameter, Inch (mm)

- 1/4 (6.4)
- 3/8 (9.5)
- 1/2 (12.7)
- 3/4 (19.1)
- 1 (25.4)
- 1-1/2 (38.1)

Kits

- R357XVTC012
- R357XVTC022
- R357XVTC032
- R357XVTC042
- R357XVTC052
- R357XVTC062

Included Parts

Key	Description	Quantity
7	Valve plug	1
9	Spirol pin	1
60	Cage	1
61	Seat ring	1

376 SERIES TRIP VALVE

August 1985

Kit R376X000012

Included Parts

Key	Description	Quantity
12	Diaphragm	1
14	Valve plug	1
15	O-ring	1
17	Diaphragm	1
22	Stems	2
23	O-ring	2
24	Plug assembly	2
26	O-ring	2
29	O-ring (for top mounting only)	2
38	Seat ring	2
63	O-ring (for manifold mounting only)	1

377 SERIES TRIP VALVE

August 1989

Kit R377X000012

Included Parts

Key	Description	Quantity
12	Diaphragm	1
14	Valve plug	1
15	O-ring	1
17	Diaphragm	1
22	Stem	2
23	O-ring	2
24	Plug assembly	2
26	O-ring	2
29	O-ring (for top mounting only)	2
63	O-ring (for manifold mounting only)	1
74	O-ring	2
89	Gasket	1

TYPE 399 AND 399A REGULATORS

November 1996

Body Size, Inch

	Kits		
	Diaphragm Material		
	E55	E54	HYDRIN
1	R399AX00S12	R399AX00L12	R399AXHYD12
1-1/2 x 1	R399AX00S82	R399AX00L82	Not Available
2, 4 x 2	R399AX00S22	R399AX00L22	R399AXHYD22
2 x 1	R399AX00S72	Not Available	Not Available
3	R399AX00S32	R399AX00L32	R399AXHYD32
4, 6 x 4, 8 x 4	R399AX00S42	R399AX00L42	R399AXHYD42
6, 8 x 6, 12 x 6	R399AX00S62	R399AX00L62	R399AXHYD62

Included Parts

Key	Description	Quantity		
5	Gasket	1	1	1
6	Spiral gasket	1	1	1
8	O-ring (not req'd on 8 x 6)	1	1	1
9	Diaphragm	1	1	1
14	O-ring	1	1	1
18	O-ring	1	1	1
35	O-ring (4 x 2, 6 x 4, 8 x 4 Type 399 only)	1	1	1
66	O-ring (8 x 6 only)	1	1	1
67	O-ring (8 x 6 only)	1	1	1
77	O-ring (2 x 1 only)	1	---	---
78	O-ring (2 x 1 only)	1	---	---
---	Tag	1	1	1
---	Cap screw	1	1	1

To convert a Type 399 to a Type 399A, order the appropriate repair kit and also a cage or cage/adaptor from the following.

Body Size, Inch

Cage	100%	60%	30%
1	23B0940X012	23B8140X012	23B8140X022
2	23B0921X012	23B8069X012	23B8069X022
3	23B0941X012	23B8144X012	23B8144X022
4	23B0942X012	23B8079X012	23B8079X022
6	23B0943X012	---	---
Cage/Adaptor			
4 x 2	23B8060X012	---	---
6 x 4	23B8625X022	---	---
8 x 4	23B8625X012	---	---
8 x 6	23B8139X012	---	---
12 x 6	23B8139X022	---	---

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FISHER-ROSEMOUNT

TYPE 470 AND 471 ACTUATORS

July 1984

Actuator Size

23, 30, 43, 63
40, 64
46, 60
68, 80
86
100
130

R470X000012
R470X000022
R470X000032

R470X000052

Kits

R470X000042

R470X000062
R470X000072

Included Parts

Key	Description
9	O-ring
10	O-ring
11	O-ring
12	O-ring
24	Boot
25	Snap ring
26	Snap ring
28	O-ring
29	O-ring
78	O-ring

2
2
1
1
1
1
1

1

Quantity

1
1
2

1
1
1
1
1
1

TYPE 470-16 AND 471-16 ACTUATORS

July 1984

Actuator Size

60
68, 80
100
130

R470-16X012

Kits

R470-16X022
R470-16X032
R470-16X042

Included Parts

Key	Description
9	O-ring
10	O-ring
11	O-ring
12	O-ring
28	O-ring
29	O-ring
78	O-ring

2
2
1
1

2

Quantity

1
1
2

1
1
2

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FISHER-ROSEMOUNT

TYPE 471-8 ACTUATOR

May 1986

Actuator Size

		Kits	
30	R478X0000	---	---
40	R478X0000	---	---
43	R478X0000	---	---
46	R478X0000	---	---
48	---	R478X0000	---
60	R478X0000	---	---
64	R478X0000	---	---
68	---	R478X0000	---
100	---	---	R478X0000

Included Parts

Key	Description		Quantity	
9	O-ring	2	1	1
10	O-ring	2	1	1
11	O-ring	1	2	2
12	O-ring	1	---	---
24	Boot	1	1	---
25	Snap ring	1	1	---
26	Snap ring	1	1	---
28	O-ring	---	1	1
29	O-ring	---	1	1
78	O-ring (1 required for Type 471-8)	2	2	2
190	Boot	1	1	1
191	Snap ring	1	1	1
192	Snap ring	1	1	1

TYPE 471-8-16

July 1984

Actuator Size

		Kit	
60	R478-16X012	---	---
68	---	R478-16X022	---
80	---	R478-16X032	---
100	---	R478X000092	---

Included Parts

Key	Description		Quantity	
9	O-ring	2		1
10	O-ring	2		1
11	O-ring	1		2
12	O-ring	1		---
28	O-ring	---		1
29	O-ring	---		1
78	O-ring	2		2
190	Boot	1		1
191	Snap ring	1		1
192	Snap ring	1		1

D101173X012

476 SERIES TRIP VALVES

October 1985

Type Number

476D and 476J
476L

Kits

R476X000012 ---
--- R476X000022

Included Parts

Key	Key ⁽¹⁾	Description	Quantity	
102	9	O-ring	1	1
103	110	Spring	1	1
105	112	O-ring	2	2
108	115	O-ring	1	---
113	119	Spring	1	---
114	120	Relief valve	1	---
115	121	O-ring	1	---
117	123	O-ring (60% trip point)	1	---
117	123	O-ring (75% trip point)	1	---
149	149	O-ring (not required on Type 476U or nipple mounted)	1	1
152	131	Screw	---	1

1. Key numbers from existing manual.

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FISHER-ROSEMOUNT

TYPE 478 ACTUATORS

May 1986

Actuator Size

Actuator Size		Kits	
30	R478X000012	---	---
40	R478X000022	---	---
43	R478X000032	---	---
46	R478X000042	---	---
48	---	R478X000052	---
60	R478X000062	---	---
64	R478X000072	---	---
68	---	R478X000082	---
100	---	---	R478X000092

Included Parts

Key	Description		Quantity	
9	O-ring	2	1	1
10	O-ring	2	1	1
11	O-ring	1	2	2
12	O-ring	1	---	---
24	Boot	1	1	---
25	Snap ring	1	1	---
26	Snap ring	1	1	---
28	O-ring	---	1	1
29	O-ring	---	1	1
78	O-ring	2	2	2
191	Boot	1	1	1
192	Snap ring	1	1	1
192	Snap ring	1	1	1

TYPE 478-16

July 1984

Actuator Size

Actuator Size		Kits	
60	R478-16X012	---	---
68	---	R478-16X022	---
80	---	R478-16X032	---
100	---	R478X000092	---

Included Parts

Key	Description		Quantity	
9	O-ring	2	1	1
10	O-ring	2	1	1
11	O-ring	1	2	2
12	O-ring	1	---	---
28	O-ring	---	1	1
29	O-ring	---	1	1
78	O-ring (1 required for Type 478-16)	2	2	2
190	Boot	1	1	1
191	Snap ring	1	1	1
192	Snap ring	1	1	1

D10174X012

TYPE 480 ACTUATOR

December 1984

Kits include Type 480-13 and 480-15 constructions.

Actuator Size

		Kits
30	R480X000012	---
40	R480X000022	---
60 with 2-inch (51 mm) travel	R480X000032	---
60 with 4-inch (102 mm) travel	R470X000052	---
80	---	R470X000042
100	---	R470X000062
130	---	R470X000072

Included Parts

Key	Description		Quantity
9	O-ring	2	1
10	O-ring	2	1
11	O-ring	1	2
12	O-ring	1	---
24	Boot	1	1
25	Snap ring	1	1
26	Snap ring	1	1
28	O-ring	---	1
29	O-ring	---	1
78	O-ring	1	1

TYPE 481 ACTUATOR

December 1984

Kits include Type 481-13 and 481-15 constructions.

Actuator Size

		Kits
30	R480X000012	---
40	R480X000022	---
60 with 2-inch (51 mm) travel	R480X000032	---
60 with 4-inch (102 mm) travel	R470X000052	---
80	---	R470X000042
100	---	R470X000062
130	---	R470X000072

Included Parts

Key	Description		Quantity
9	O-ring	2	1
10	O-ring	2	1
11	O-ring	1	2
12	O-ring	1	---
24	Boot	1	1
25	Snap ring	1	1
26	Snap ring	1	1
28	O-ring	---	1
29	O-ring	---	1
78	O-ring	1	1

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FISHER-ROSEMOUNT™

TYPE 480-16 AND 481-16 ACTUATORS

July 1984

Actuator Size

40
60
68, 80

R480-16X012
R470-16X012

Kits

R470-16X022

Included Parts

Key	Description	Quantity	
9	O-ring	2	1
10	O-ring	2	1
11	O-ring	1	2
12	O-ring	1	---
28	O-ring	---	1
29	O-ring	---	1
78	O-ring	2	2

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FISHER-ROSEMOUNT

TYPE 513 ACTUATOR

July 1982

Kit R513X000012

Included Parts

Key	Description	Quantity
2	Diaphragm	1
6	O-ring	1
7	O-ring	1
9	Gasket	1
34	Dust seal	1

TYPE 546 AND 546S TRANSDUCERS

March 1997

Bellows for torque motor must be selected by size and ordered separately by part number.

Construction	Kits	
	Nitrile	EPDM
Type 546 and 546S repair	R546X000022	R546X000032
Type 82 relay repair	R82X0000022	10A8593X122
Type 82 relay replacement	10A8593X082	10A8593X142

Included Parts

Key	Description	Quantity	
<i>Transducer Repair</i>			
6	O-ring	1	1
12	O-ring	1	1
36	O-ring	2	2
37	O-ring	1	1
58	Feedback tubing	1	1
<i>Type 82 Relay Repair</i>			
63	Valve plug	1	1
65	Lower diaphragm assembly	1	1
66	Upper diaphragm	1	1
69	Screen	1	1
70	Spring	1	1
72	O-ring	1	1
73	O-ring	2	2
74	O-ring	2	2
75	O-ring	1	1
---	Instructions	1	1
---	Alignment tool	1	1
<i>Type 82 Relay Replacement</i>			
---	Relay assembly	1	1
68	Relay mounting screws	2	2

D101176X012

TYPE 582i ELECTRO-PNEUMATIC CONVERTER

June 1990

Kit R582X000012

Included Parts

Key	Description	Quantity
3	O-ring	1
5	O-ring	1
6	O-ring	2
8	O-ring	1
20	Case gasket	1
23	Filter	1

TYPE 585 AND 585R ACTUATORS

July 1984

Actuator	Kit
25	R585X000252
50	R585X000502

Included Parts

Key	Description	Quantity
6	Gasket	2
7	O-ring	1
10	O-ring	1
11	Bearing	1

TYPE 585C AND 585CR ACTUATORS

October 1997

Actuator	Kit
25	R585CX00252
50	R585CX00502

Included Parts

Key	Description	Quantity
7	O-ring	1
8	O-ring	1
9	O-ring	1
25	Backup ring (size 50 only)	1

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FISHER-ROSEMOUNT

TYPE 585C ACTUATORS

November 2000

CONSTRUCTION

Standard

Actuator Size	Travel, Inch	Kit	Kit
60	2	R585CX00012	---
60	4	R585CX00022	---
60	8	---	R585CX00032
68	2, 4, & 8	---	R585CX00042
80	4	R585CX00052	---
80	8	---	R585CX00042
100	4	R585CX00062	---
100	8	---	R585CX00072
130	4	R585CX00082	---
130	8	---	R585CX00092

W/MO

60	2, 4, & 8	---	R585CX00032
68	2, 4, & 8	---	R585CX00102
80	2, 4, & 8	---	R585CX00042
100	4 & 8	---	R585CX00072
130	4 & 8	---	R585CX00092

Included Parts

Key	Description	Quantity	
7	O-ring	1	1
8	O-ring	1	1
9	O-ring	1	1
27	O-ring	1	1
29	Boot	1	---
30	Snap ring	1	---
31	Snap ring	1	---
112	O-ring(Size 68 w/MO only)	---	1



FISHER-ROSEMOUNT™

TYPE 620 THROUGH 625 REGULATORS

October 1984

Seat ring is included only where indicated. If separate seat ring is required, it must be ordered separately by appropriate part number based on port diameter and material. Kits listed must not be used with regulators containing 80 to 100 psig (5.5 to 10.3 bar) or 130 to 200 psig (9 to 13.8 bar) springs.

Port Size, Inch (mm)	Trim	Kits
Without Seat Ring		
3/32 to 3/8 (2.4 to 9.5)	Aluminum/nitrile	R620X000A12
3/32 to 3/8 (2.4 to 9.5)	Aluminum/nylon	R620X000A22
3/32 to 3/8 (2.4 to 9.5)	SST/nitrile	R620X000S22
3/32 to 3/8 (2.4 to 9.5)	SST/ nylon	R620X000S12
1/2 to 9/16 (12.7 to 14.3)	Aluminum/nitrile	R620X000A32
1/2 to 9/16 (12.7 to 14.3)	SST/nitrile	R620X000S32
With Seat Ring, Key 7		
1/8 (3.2)	Aluminum/nitrile	R620X000AA2
1/4 (6.4)	Aluminum/nitrile	R620X000AB2
3/8 (9.5)	Aluminum/nitrile	R620X000AC2
1/2 (12.7)	Aluminum/nitrile	R620X000AD2

Included Parts

Key	Description	Quantity
6	Disk holder assembly	1
10	Body gasket	1
15	Diaphragm	1
18	O-ring	1
30	Gasket (Types 621, 623, & 625)	1

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FISHER-ROSEMOUNT

TYPES 627, 627M, 627MR, AND 627R

March 1998

Seat ring is not included. If required, seat ring must be specified by appropriate part number based on port diameter and material.

Trim

- Aluminum/nitrile
- Stainless steel/nitrile
- Aluminum/nylon
- Stainless steel/nylon

Kits

Type 627 and 627M	Type 627MR and 627R
R627X000A12	R627RX00A12
R627X000S12	R627RX00S12
R627X000A22	R627RX00A22
R627X000S22	R627RX00S22

Included Parts

Key	Description	Quantity	
4	Diaphragm case O-ring (Types 627 & 627R only)	1	1
9	Disk holder assembly	1	1
11	Stem O-ring	1	1
12	Stem backup ring	2	2
13	Hair pin clip	1	1
23	Diaphragm (ductile or aluminum casing)	1	1
23	Diaphragm (steel casing)	1	1
28	Relief seal O-ring	---	1
44	Blocked throat O-ring (Types 627M & 627MR only)	2	2
45	Blocked throat backup ring (Types 627M & 627MR only)	2	2
48	Guide retainer O-ring	---	1

TYPE 627F

March 1991

Seat ring is not included. If required, seat ring must be specified by appropriate part number based on port diameter and material.

Trim

- Aluminum/nitrile
- Stainless steel/nitrile

Kits

- R627FX00A12
- R627FX00S12

Included Parts

Key	Description	Quantity
4	Diaphragm case O-ring	1
7	O-ring	1
9	Disk holder assembly	1
11	Stem O-ring	1
12	Stem backup ring	2
13	Hair pin clip	1
23	Diaphragm (ductile or aluminum casing)	1
23	Diaphragm (steel casing)	1
55	Gasket	1
63	Closing cap gasket	1

-Continued-

TYPES 627H AND 627HM

March 1991

Seat ring is not included. If required, seat ring must be specified by appropriate part number based on port diameter and material.

Trim

Stainless steel/nylon

Kits

R627HX00S12

Included Parts

Key	Description	Quantity
4	Diaphragm case O-ring (Type 627H only)	1
9	Disk holder assembly	1
11	Stem O-ring	1
12	Stem backup ring	2
13	Hair pin clip	1
23	Diaphragm	1
44	Blocked throat O-ring (Type 627HM only)	2
45	Blocked throat backup ring (Type 627HM only)	2
51	Diaphragm limiter O-ring	1
52	Pusher post O-ring	2

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FISHER-ROSEMOUNT

TYPE 630 REGULATOR

November 1985

Repair kits are for low or high pressure spring-loaded construction. Kits include neoprene diaphragm, copper inlet gasket material (for brass trim) or composition material (for stainless trim), and valve disk assembly material as noted. NOTE: Seat ring included only where indicated. If separate seat ring is required, it must be ordered separately by appropriate part number based on port diameter and material.

Trim Construction

Kits

Without Seat Ring

	Low Pressure	High Pressure
Brass/nitrile	R630X000L12	R630X000H12
Brass/nylon	R630X000L22	R630X000H22
Brass/PTFE	R630X000L32	R630X000H32
SST/nitrile	R630X000L42	R630X000H42
SST/nylon (standard and NACE)	R630X000L52	R630X000H52
SST/PTFE	R630X000L62	R630X000H62

With Seat Ring, Key 20

1/2-inch (12.7 mm) brass/nylon	R630X000LA2	---
1/2-inch (12.7 mm) SST/nylon	R630X000LB2	---
1/8-inch (3.2 mm) brass/nylon	---	R630X000HC2
1/8-inch (3.2 mm) SST/nylon (standard)	---	R630X000HD2
1/8-inch (3.2 mm) SST/nylon (NACE)	---	R630X000HD2
1/4-inch (6.4 mm) brass/nylon	---	R630X000HA2
1/4-inch (6.4 mm) SST/nylon (standard)	---	R630X000HB2
1/4-inch (6.4 mm) SST/nylon (NACE)	---	R630X000HB2

Included Parts

Key	Description	Quantity	
11	Diaphragm	1	1
16	Gasket	1	1
19	Inlet body gasket	2	2
21	Valve disk assembly	1	1

TYPE 630R RELIEF VALVE

April 1996

Retrofit kit converts Type 630 to a Type 630R.

Trim Construction

Kits

1/2-inch (12.7 mm) brass/nitrile	R630RX00B12
1/2-inch (12.7 mm) SST/nitrile	R630RX00S12

Included Parts

Key	Description	Quantity
16	Gasket	1
19	Inlet body gasket	2
20	Seat ring	1
21	O-ring holder	1
32	O-ring washer	1
34	Nameplate	1
35	Drive screw	4
36	Machine screw	1
37	O-ring	1

TYPE 634 AND 634M SHUTOFF VALVES

October 1984

Fracture Disk Color	Range, Psig (Bar)	Kits
Red	20 to 25 (1.4 to 1.9)	R634X000012
Yellow	50 to 60 (3.4 to 4.1)	R634X000022
White	72 to 88 (5.2 to 6.1)	R634X000032
Black	100 to 125 (6.9 to 8.6)	R634X000042
Blue	125 to 150 (8.6 to 10)	R634X000052

Included Parts

Key	Description	Quantity
4	Fracture disk	1
6	Diaphragm	1
8	O-ring	4
9	Plug assembly	1
21	O-ring	1

TYPE 646 TRANSDUCER

October 1988

Kit	R646X000012
------------	-------------

Included Parts

Key	Description	Quantity
<i>Transducer</i>		
6	O-ring	1
8	O-ring	1
9	Input diaphragm	1
10	Exhaust port assembly	1
12	Inner valve spring	1
13	Bias spring	1
14	Valve plug	1
18	O-ring	1
<i>Converter Module</i>		
12	O-ring	1

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FISHER-ROSEMOUNT

TYPE 657 AND 667 ACTUATORS (RETROFIT)

April 1996

Includes parts to add side-mounted handwheel.

Actuator		Valve Action ⁽¹⁾	Kits
Type	Size		
657	34	PDTC	30A8778X0A2
	34	PDTO	30A8778X0B2
	40	PDTC	30A8778X0C2
	40	PDTO	30A8778X0D2
	45 & 46	PDTC	40A8779X0A2
	45 & 46	PDTO	40A8779X0B2
	50 & 60	PDTC	40A8779X0C2
	50 & 60	PDTO	40A8779X0D2
	667	34	PDTC
34		PDTO	30A8778X0F2
40		PDTC	30A8778X0G2
40		PDTO	30A8778X0H2
45 & 46		PDTC	40A8779X0A2
45 & 46		PDTO	40A8779X0B2
50 & 60		PDTC	40A8779X0C2
50 & 60		PDTO	40A8779X0D2

1. PDTC =Push-down-to-close; PDTO=Push-down-to open

Includes part to add top-mounted handwheel. Kit Number 1 includes handwheel assembly only. Kit Number 2 includes Kit Number 1 and a new diaphragm case that is required to mount the handwheel assembly.

NOTE: Type 667 kits are designed for full travel. Restricted travel will require a travel stop that must be ordered by appropriate part number and quantity.

Actuator		Kit Number 1	Kit Number 2
Type	Size		
657	30	28A1205X012	28A1205X042
	34 & 40	28A1205X022	28A1205X052
	45 & 50	28A1205X032	28A1205X062
	46, 60	28A1205X032	28A1205X072
	70 & 87	CV8010X0032	CV8010X0042
	80	CV8009X00A2	CV8009X00B2
	667	30	30B3940X102
34		30B3940X022	30B3940X062
40		30B3940X042	30B3940X092
45 & 50		33B9224X012	33B9224X022
46, 60, 76		33B9224X012	33B9224X032
70 & 87		CV8060X0012	CV8060X0022

TYPE 667 ACTUATOR

April 1996

NOTE: The diaphragm is not included and must be specified separately by appropriate part number shown below.

Actuator Size**Kits**

30	R667X000302	---
34, 40	R667X000402	---
45, 46, 50, 60	R667X000502	---
70, 87	---	R667X000702
76	R667X000762	---
80	R667X000802	---

Included Parts

Key	Description	Quantity	Quantity
8	O-ring	2	2
9	O-ring	1	1
70	Gasket	1	---
70	O-ring	---	1

Standard Temperature Diaphragms

Actuator Size	Part Number
30	2E800002202
34, 40	2E669902202
45, 50	2E859602202
46, 60, 76	2E859802202
70, 87	2N130902202
80	2R6376X0032

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FISHER-ROSEMOUNT

730B AND 730P SERIES REGULATORS

August 1985

Repair kits include nitrile diaphragm/head assembly and nitrile/brass disk holder assembly. Lower head gasket, body gasket, and closing cap gasket are composition material. NOTE: Seat ring is not included and is normally not required. If required, seat ring must be specified separately by appropriate part number.

Spring Range

Kits

To 1.3 Psig

1/2-inch (12.7 mm) port and smaller
3/4-inch (19.1 mm) port and larger

R730BX00012
R730BX00022

Over 1.3 Psig

1/2-inch (12.7 mm) port and smaller
3/4-inch (19.1 mm) port and larger

NA
NA

Included Parts

Key	Description	Quantity
5	Diaphragm/head assembly	1
7	Lower head gasket	1
16	Body gasket	1
25	Disk holder assembly	1
35	Closing cap gasket	1

730C SERIES REGULATOR

April 1989

Port Diameter, Inch (mm)

7/16 (11.1) and under
Over 7/16 (11.1)

Kits

RY600X00012
RY600X00022

Included Parts

Key	Description	Quantity
5	Diaphragm	1
14	Cotter pin	1
16	Body gasket	1
25	Disk holder assembly	1
35	Closing cap gasket	1

733C SERIES REGULATOR

April 1989

Kits

RY600RX0012

Included Parts

Key	Description	Quantity
5	Diaphragm	1
14	Cotter pin	1
16	Body gasket	1
25	Disk holder assembly	1
35	Closing cap gasket	1

D101269X012

912 SERIES REGULATOR

July 1983

Kit

R912X000012

Included Parts

Key	Description	Quantity
11	Disk holder assembly	1
15	Diaphragm	1
16	Vent screen	1
17	Closing cap gasket	1

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Catalog 122

DESIGN 1018S PACKING BOX PARTS (Non Live-Loaded)

April 2001

Repair kits for Design 1018S Valve. Kits do not apply to special alloy constructions.

Stems and packing box constructions not supplied by Fisher Controls and that do not meet Fisher Controls stem finish specifications, dimensional tolerances, and design specifications, may adversely alter the performance of this packing kit.

Stem Diameter, mm	Kits			
	12 ⁽¹⁾	12 ⁽²⁾	16 ⁽¹⁾	16 ⁽²⁾
Yoke Boss Diameter, Inch (mm)	2-1/8 (54)	2-1/8 (54)	2-13/16 (71)	2-13/16 (71)
Packing				
Single PTFE/Graphite	R1018SY0012	R1018SY0072	R1018SY0022	R1018SY0082
Single Graphite	R1018SY0032	R1018SY0092	R1018SY0042	R1018SY0102
Single PTFE V-Ring	R1018SY0052	R1018SY0112	R1018SY0062	R1018SY0122

Included Parts

Key	Descriptions	Quantity			
<i>Single PTFE/Graphite</i>					
8.2	Bush	2	2	2	2
8.5	Packing Ring	4	4	4	4
8.6	Base Ring	1	---	1	1
8.7	Spacer	1	1	2	1
8.12	Spacer	---	1	---	---
8.17	Spacer	---	---	---	1
30	Warning Tag	1	1	1	1
<i>Single Graphite</i>					
8.2	Bush	1	1	1	1
8.5.1	Packing Ring	2	2	2	2
8.5.2	Packing Ring	2	2	2	2
8.6	Base Ring	1	1	1	1
8.7	Spacer	1	---	2	1
8.12	Spacer	---	1	---	---
8.13	Bush	1	1	1	1
8.17	Spacer	---	---	---	1
30	Warning Tag	1	1	1	1
<i>Single PTFE V-Ring</i>					
8.2	Bush	2	2	2	2
8.7	Spacer	1	---	1	---
8.8	Washer	1	2	3	3
8.9	Packing Set	1	1	1	1
8.10	Spring	1	1	1	1
8.12	Spacer	---	2	---	---
8.17	Spacer	---	---	---	1

1. These kits are appropriate for products shipped before Spring 2000. Check original order ship details for confirmation.

2. These kits are appropriate for products shipped since Winter 2000. Check original order ship details for confirmation.

1018S (Repair)

DESIGN 1018S PACKING BOX PARTS (ENVIRO-SEAL®)

May 2002

Repair kits for Design 1018S Valve. Kits do not apply to special alloy constructions.

Stems and packing box constructions not supplied by Fisher Controls and that do not meet Fisher Controls stem finish specifications, dimensional tolerances, and design specifications, may adversely alter the performance of this packing kit.

Kits

Stem Diameter, mm	12	16
Yoke Boss Diameter, Inch (mm)	2-1/8 (54)	2-13/16 (71)

Packing

Double PTFE	RPACKY00012	RPACKY00022
Graphite ULF	RPACKY00052	RPACKY00062

Included Parts

Key	Descriptions	Quantity	
<i>Double PTFE</i>			
8.2	Bush	1	1
8.9	Packing Set	2	2
8.15	Anti-Extrusion Rings	4	4
<i>Single Graphite</i>			
8.5.1	Bush	1	1
8.5.2	Packing Ring	2	2
8.5.3	Packing Ring	2	2
8.5.4	Washer	3	3
8.7	Bushing	1	1
8.13	Bushing	1	1

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Catalog 122

DESIGN 1018S PACKING BOX PARTS (ENVIRO-SEAL®)

May 2002

Retrofit kits include parts to convert existing 1018S to the ENVIRO-SEAL packing box construction. For selection guidelines, see Bulletin 59.1:062.

Stems and packing box constructions that do not meet Fisher Controls stem finish specifications, dimensional tolerances, and design specifications, may adversely alter the performance of this packing kit.

Stem Diameter, mm	Kits			
	12 ⁽¹⁾	12 ⁽²⁾	16 ⁽¹⁾	16 ⁽²⁾
Yoke Boss Diameter, Inch (mm)	2-1/8 (54)	2-1/8 (54)	2-13/16 (71)	2-13/16 (71)
Packing				
Double PTFE	RPACKYRT012	RPACKYRT052	RPACKYRT022	RPACKYRT062
Graphite ULF	NA	RPACKYRT092	NA	RPACKYRT102

Included Parts

Key	Descriptions	Quantity			
<i>Double PTFE</i>					
8.1	Packing Flange	1	1	1	1
8.2	Bush	1	---	1	---
8.3	Cap-Screw	2	2	2	2
8.6	Spacer	---	1	1	1
8.7	Spacer	2	1	2	2
8.8	Washer	2	1	2	2
8.9	Packing Set	2	2	2	2
8.11	Spring Pack Assembly	1	1	1	1
8.13	Bush	---	1	---	1
8.15	Anti-Extrusion Rings	4	4	4	4
---	Tag	1	1	1	1
---	Cable Tie	1	1	1	1
<i>Graphite ULF</i>					
8.1	Packing Flange		1		1
8.3	Cap-Screw		2		2
8.5.1	Bush		1		1
8.5.2	Packing Ring		2		2
8.5.3	Packing Ring		2		2
8.5.4	Washer		3		3
8.7	Bushing		1		1
8.11	Spring Pack Assembly		1		1
8.13	Bush		1		1
---	Tag		1		1
---	Cable Tie		1		1

1. These kits are appropriate for products shipped before Spring 2000. Check original order ship details for confirmation.

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TYPE 1032 RACK-AND-PINION ROTARY ACTUATOR

July 1992

MODEL

KITS

Seal Material

45
70
130
185
280
425
680
1125
1370
2585
4580

**Nitrile
(Full Spares)**
R1032X00212
R1032X00222
R1032X00232
R1032X00242
R1032X00252
R1032X00262
R1032X00272
R1032X00282
R1032X00292
R1032X00302
R1032X00312

**Fluoroelastomer
(Seals Only)**
R1032X00412
R1032X00422
R1032X00432
R1032X00442
R1032X00452
R1032X00462
R1032X00472
R1032X00482
R1032X00492
R1032X00502
R1032X00512

Included Parts

Key	Description	Quantity	
5	Safety key	2	---
11	Sealing washer	2	2
12	Piston O-ring	2	2
13	End cap O-ring	2	2
14	Upper pinion bearing	1	---
15	Lower pinion bearing	1	---
16	Piston bearing	2	---
17	O-ring	1	1
18	O-ring	1	1
19	Thrust bearing	2	---
20	Thrust bearing	2	---
22	Sealing washer (spring-return with chamfer hole only)	2	2
22	Sealing washer (spring-return without chamfer hole only)	2	2
23	Snap ring	1	---
26	O-ring	2	2

Additional part that may be required when repairing or retrofitting **SPRING RETURN** actuator:

Model	Retractor Rods (Quantity 2)
45	12B9219X012
70	12B9219X022
130	12B9219X112
185	12B9219X032
280	12B9219X042
425	12B9219X052
680	12B9219X062
1125	12B9219X072
1370	12B9219X082
2585	12B9219X092
4580	12B9219X102

D101483X012

TYPE 1035 RACK-AND-PINION ROTARY ACTUATOR

August 1998

MODEL	Kits					
	Buna N		Seal Material		EPDM	
	(Full Spares)	(Seals Only)	(Full Spares)	(Seals Only)	(Full Spares)	(Seals Only)
EA25	75B0594X012	NA	75B0595X012	75B0592X012	75B0596X012	75B0593X012
EA40	75B0594X022	NA	75B0595X022	75B0592X022	75B0596X022	75B0593X022
EA65	75B0594X032	NA	75B0595X032	75B0592X032	75B0596X032	75B0593X032
EA100	75B0594X042	NA	75B0595X042	75B0592X042	75B0596X042	75B0593X042
EA200	75B0594X052	NA	75B0595X052	75B0592X052	75B0596X052	75B0593X052
EA350	75B0594X062	NA	75B0595X062	75B0592X062	75B0596X062	75B0593X062
PA500	75B0594X072	NA	75B0595X072	75B0592X072	75B0596X072	75B0593X072
PA750	75B0594X082	NA	75B0595X082	75B0592X082	75B0596X082	75B0593X082
PA1100	75B0594X092	NA	75B0595X092	75B0592X092	75B0596X092	75B0593X092
PA2500	75B0594X102	NA	75B0595X102	75B0592X102	75B0596X102	75B0593X102
PA4000	75B0594X112	NA	75B0595X112	75B0592X112	75B0596X112	75B0593X112
PA4004	75B0594X112	NA	75B0595X112	75B0592X112	75B0596X112	75B0593X112

Included Parts

Key	Description	Quantity					
		Full Spares	Seals Only	Full Spares	Seals Only	Full Spares	Seals Only
<i>E Series</i>							
10	Guide band	1	---	1	---	1	---
11	Guide band	2	---	2	---	2	---
12	Bottom bearing bushing	1	---	1	---	1	---
20	Top bearing bushing	1	---	1	---	1	---
21	Thrust washer	1	---	1	---	1	---
22	Washer	1	---	1	---	1	---
22	Body O-ring	2	2	2	2	2	2
23	Washer	1	---	1	---	1	---
23	Piston O-ring	2	2	2	2	2	2
25	End cap O-ring	1	1	1	1	1	1
26	Bottom shaft O-ring	1	1	1	1	1	1
27	Washer	1	---	1	---	1	---
28	O-ring	1	---	1	---	1	---
29	End cap O-ring	2	2	2	2	2	2
30	End cap O-ring	2	2	2	2	2	2
35	Spring clip	1	---	1	---	1	---
43	O-ring	2	2	2	2	2	2
<i>P Series</i>							
9	Bearing bushing	1	---	1	---	1	---
10	Bearing bushing	1	---	1	---	1	---
14	Guide band	2	---	2	---	2	---
15	Guide band	2	---	2	---	2	---
16	Piston O-ring	2	2	2	2	2	2
17	End cap O-ring	2	2	2	2	2	2
18	Shaft O-ring	1	1	1	1	1	1
19	Shaft O-ring	1	1	1	1	1	1
20	Spring clip	1	---	1	---	1	---
21	Thrust washer	1	---	1	---	1	---
26	O-ring	2	2	2	2	2	2

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FISHER-ROSEMOUNT™

TYPE 1051 AND 1052 ACTUATORS (RETROFIT)

April 1999

Includes parts to add a top-mounted handwheel. Kit Number 1 includes the handwheel assembly only. Kit Number 2 includes Kit Number 1 and a new diaphragm case that is required to mount the handwheel assembly.

Type	Actuator	Size	Kit Number 1	Kit Number 2
1051		30 & 33	28A1205X082	28A1205X092
		40	38A1213X032	38A1213X072
		60	38A1213X062	38A1213X022
1052		20	28A1205X102	28A1205X112
		30 & 33	28A1205X082	28A1205X092
		40	38A1213X032	38A1213X072
		60	38A1213X062	38A1213X022
		70	CV8010X0052	CV8010X0062

TYPE 1061 ROTARY ACTUATOR

August 1996

Actuator Size	Kits	
	O-Ring	Quad Ring
30	R1061X00302	R1061XQD302
40	R1061X00402	R1061XQD402
60	R1061X00602	R1061XQD602
68	R1061X00682	R1061XQD682
80	R1061X00802	Not Available
100	R1061X01002	Not Available

Included Parts

Key	Description	Quantity	
5	O-ring (not required on size 60 quad ring construction)	1	1
8	O-ring	1	---
8	Quad ring	---	1
16	O-ring	1	1
17	O-ring	1	---
17	Quad ring	---	1
18	O-ring	1	1
56	O-ring (not required on size 60 quad ring construction)	1	1
74	Thrust washer	1	1

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FISHER-ROSEMOUNT

TYPE 1064 ACTUATOR

August 1996

Actuator Size

20
75

Kits

R1064X00202
R1064X00752

Included Parts

Key	Description	Quantity
11	Self-sealing nut	2
15	O-ring	1
16	O-ring	2
17	O-ring	2
18	O-ring	2

TYPE 1066 AND 1066SR ACTUATORS

August 1985

Actuator Size

20
27
75

Kits

Type 1066	Type 1066SR
R1066X00202	R1066SRX202
R1066X00272	R1066SRX752
R1066X00752	R1066SRX752

Included Parts

Key	Description	Quantity
11	Sealing washer	1
17	O-ring	1
18	O-ring	---
33	Gasket	1
34	O-ring	---
37	Self-sealing nut	---

TYPE 1098 ACTUATOR

December 1994

Actuator Size

30
40 (standard)
70

Kits

R1098X00302
R1098X00402
R1098X00702

Included Parts

Key	Description	Quantity
5	Casing O-ring	1
6	Stem O-ring	2
7	Diaphragm	1
56	Bearing ⁽¹⁾	2
57	Wiper ring ⁽¹⁾	1

1. For serial numbers 13191403 and above.

TYPE 1301F AND 1301G REGULATORS

October 1984

Body and diaphragm head gaskets are neoprene for brass trim or fluoroelastomer for stainless steel trim.

Trim

- Brass with nylon disk
- Stainless steel with nylon disk
- Brass with PTFE disk
- Stainless steel with PTFE disk

Kits

- R1301FX0012
- R1301FX0022
- R1301FX0032
- R1301FX0042

Included Parts

Key	Description	Quantity
5	Seat ring	1
6	Valve disk assembly	1
7	Diaphragm	2
12	Body gasket	1
13	Diaphragm gasket	1
14	Bottom cap gasket (old style)	1
14	Bottom cap gasket (redesign)	1

1805 SERIES RELIEF VALVES

July 1982

Main Valve

- 3/4 & 1-inch body size
- 1-1/2 & 2-inch body size

Kits

- R1805X00012
- R1805X00022

Pilot for Type 1805P

- Nitrile trim
- Fluoroelastomer trim

Kits

- R167AX00012
- R167AX00022

Included Parts

Key	Description	Quantity
<i>Main Valve</i>		
3	Tetraseal O-ring	1
5	O-ring	1
8	Diaphragm	1
<i>Pilot</i>		
4	Valve plug	1
7	Diaphragm assembly	1
15	Stem guide assembly	1
22	Gasket	1
23	Gasket	1
24	Valve plug spring	1
25	Retaining ring	1

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FISHER-ROSEMOUNT

TYPE 1808 AND 1808A BACKPRESSURE REGULATORS

October 1988

Kit

R1808X00012

Included Parts

Key	Description	Quantity
3	Diaphragm	1
9	O-ring	1
10	O-ring	1
11	O-ring	1
19	Backup ring	2
21	Gasket	2

TYPE 2100 AND 2100E SWITCHES

October 1990

Retrofit kit converts Type 2100 to a Type 2100E.

Construction

Construction	Kits
Type 2100 repair kit	R2100X00012
Type 2100E retrofit kits	
SPDT switch	R2100EX0SP2
DPDT switch	R2100EX0DP2

Included Parts

Key	Description	Quantity
<i>Repair</i>		
7	Torque tube assembly	1
11	Flapper seat	1
12	Flapper and clamp assembly	1
14	Magnet	1
16	Cover gasket	1
18	Nozzle block gasket	1
19	Gasket	1
20	Gasket	2
24	O-ring	1
25	O-ring	1
26	O-ring	1
32	Bushing	1
<i>Retrofit</i>		
- - -	Switch arm assembly	1
21	Nameplate	1
28	Lockwasher	2
30	Cap screw	2
38	Switch box assembly	1
39	Cover assembly	1
42	Body block gasket	1
44	Captive screw	2
45	Set screw	2
46	Drive screw	2
49	Switch	1
50	O-ring	2
51	Cap plug	1

D101190X012

TYPE 2390 ELECTRONIC LIQUID LEVEL TRANSMITTER

February 1988

Flexure strips —249A Series
 —249 Series/Type 259B
Cover seals

Kits
 R2390X00012
 R2390X00032
 R2390X00022

Included Parts

Key	Description	Quantity
<i>Flexure Strip</i>		
85	Flexure strip	4
<i>Cover Seals</i>		
8	O-ring	1
9	O-ring	1

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FISHER-ROSEMOUNT

TYPE 2500 CONTROLLER

July 1990

Kits

	Low Temperature	High Temperature
Controller Repair Parts	R2500X00L32	R2500X00H32
Relay Repair Parts	RRELAYX0L12	RRELAYX0H12
Relay Replacement	RRELAYX0L22	RRELAYX0H22

Included Parts

Key	Description	Quantity	
<i>Controller Repair</i>			
12	Ball bearing assembly	1	1
15	Gauge glass gaskets (zinc cover)	2	2
21	Cover gasket (zinc cover)	1	1
24	Relay base gasket	1	1
38	Filter gasket	1	1
---	Flapper assembly	1	1
<i>Relay Repair</i>			
22	Relay gasket	1	1
85 ⁽¹⁾	Diaphragm casing assembly	1	1
86	Relay diaphragm assembly	1	1
87	Valve plug	1	1
88	Plug and wire assembly	1	1
90	O-ring	2	2
91	Relay top diaphragm	1	1
92	Relay spring	1	1
93	Valve spring	1	1
94	Spring plate gasket	1	1
99	Bottom gasket	---	1
100	Top gasket	---	1
<i>Relay Replacement</i>			
22	Relay gasket	1	1
---	Relay	1	1
43	Relay mounting screw	2	2

1. Updates pre-February 1990 constructions.

TYPE 2502 CONTROLLER

July 1990

	Kits	
	Low Temperature	High Temperature
Controller Repair Parts	R2502X00L52	R2502X00H52
Relay Repair Parts	RRELAYX0L12	RRELAYX0H12
Relay Replacement	RRELAYX0L22	RRELAYX0H22

Included Parts

Key	Description	Quantity	
<i>Controller Repair</i>			
12	Ball bearing assembly	1	1
15	Gauge glass gaskets (zinc cover)	2	2
21	Cover gasket (zinc cover)	1	1
24	Relay base gasket	1	1
38	Filter gasket	1	1
55	O-rings	3	3
57	O-rings	1	1
58	Nozzle	1	1
60	Flapper	1	1
62	Connecting link	1	1
63	Sealing screw	1	1
64	Reversing block screw	1	1
77	Bellows frame gasket	1	1
79	Bellows gasket	2	2
84	Lock washer	1	1
86	Machine screw	2	2
87	Link bearing (2 per unit)	4	4
93	Machine screw	1	1
101	Reversing block	1	1
187	Sleeve	1	1
<i>Relay Repair</i>			
22	Relay gasket	1	1
85 ⁽¹⁾	Diaphragm casing assembly	1	1
86	Relay diaphragm assembly	1	1
87	Valve plug	1	1
88	Plug and wire assembly	1	1
90	O-ring	2	2
91	Relay top diaphragm	1	1
92	Relay spring	1	1
93	Valve spring	1	1
94	Spring plate gasket	1	1
99	Bottom gasket	---	1
100	Top gasket	---	1
<i>Relay Replacement</i>			
22	Relay gasket	1	1
---	Relay	1	1
43	Relay mounting screw	2	2

1. Updates pre-February 1990 constructions.

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FISHER-ROSEMOUNT

TYPE 2503 AND 2503R CONTROLLER

August 1985

Repair kit includes standard low temperature materials for the controller and relay.

Kit

R2503X00022

Included Parts

Key	Description	Quantity
<i>Controller</i>		
12	Ball bearing assembly	1
21	Cover gasket	1
22	Relay gasket	1
24	Relay base gasket	1
38	Filter gasket	1
- - -	Flapper assembly	1
<i>Relay</i>		
86	Relay diaphragm assembly	1
90	O-ring	1
91	Relay top diaphragm	1
94	Spring plate gasket	1

TYPE 2506, 2506R, 2516, AND 2516R RECEIVER/CONTROLLERS

July 1990

	Kits	
	Low Temperature	High Temperature
Controller Repair Parts	R2506X00L12	R2506X00H12
Relay Repair Parts	RRELAYX0L12	RRELAYX0H12
Relay Replacement	RRELAYX0L22	RRELAYX0H22

Included Parts

Key	Description	Quantity	
<i>Controller Repair</i>			
17	Orifice cap	1	1
19	Switch plate gasket	2	2
21	Cover gasket	1	1
24	Relay base gasket	1	1
38	Bellows gasket	4	4
45	Bellows frame gasket	2	2
<i>Relay Repair</i>			
22	Relay gasket	1	1
85 ⁽¹⁾	Diaphragm casing assembly	1	1
86	Relay diaphragm assembly	1	1
87	Valve plug	1	1
88	Plug and wire assembly	1	1
90	O-ring	2	2
91	Relay top diaphragm	1	1
92	Relay spring	1	1
93	Valve spring	1	1
94	Spring plate gasket	1	1
99	Bottom gasket	---	1
100	Top gasket	---	1
<i>Relay Replacement</i>			
22	Relay gasket	1	1
---	Relay	1	1
43	Relay mounting screw (2500 & 2502)	2	2

1. Updates pre-February 1990 constructions.

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FISHER-ROSEMOUNT™

TYPE 2680 CONTROLLER

August 1999

Relay Replacement

Type 2680
Type 2680A

Low Temperature

R2680XRLY12
R2680XRLY32

Kits

High Temperature

R2680XRLY22
R2680XRLY42

Included Parts

Key	Description	Quantity
- - -	Relay assembly	1
34	Relay mounting screw	2
45	O-ring	1
46	O-ring	1

Controller Repair

Low Temperature

R2680X00012

Kit

High Temperature

R2680X00022

Included Parts

Key	Description	Quantity
13	O-ring	1
17	O-ring	1
19	Gasket	1
22	Gasket	2
24	Gasket	1

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FISHER-ROSEMOUNT™

TYPE 3560 POSITIONER

December 1984

For standard temperature applications. Kit covers constructions per ML 635X1 through 3, 7 through 12, 55, 93 through 100, 127, 128, and 282.

Kit

R3560X00012

Included Parts

Key	Description	Quantity
2	Valve plug	1
3	Spring	1
6	Diaphragm assembly	1
8	Upper diaphragm	1
12	Restriction	1
13	O-rings	2
15	Nozzle	1
16	Flapper assembly	1
31	O-ring	1
42	Case gasket	1
45	Bypass gasket	1

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FISHER-ROSEMOUNT™

3570 SERIES POSITIONER

March 1990

Repair kits for 3570 Series contain gaskets, diaphragms, and O-ring seals as specified by type and temperature limitations.

Type Numbers

3570 & 3570R
 3570 & 3570 high temperature
 3570C & 3570CR
 3570C & 3570CR high temperature

R3570X00012
 R3570X00H12

Kits

 R3570X00012
 R3570X00H12

Included Parts

Key	Description	Quantity	
3	Pedestal gasket	1	1
12	Flapper	2	2
30	Relay gasket	2	2
33	O-ring	1	1
37	Cover gasket	1	1
<i>Relay Assembly Parts</i>			
29C	O-ring	4	4
29D	Valve spring	2	2
29F	Relay diaphragm	2	2
29K	Sealing diaphragm	2	2
29M	O-ring	2	2
29Q	Nozzle	2	2
29S	O-ring	2	2
29P	Nozzle spring	2	---
29P	Lock nut	---	2

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FISHER-ROSEMOUNT

**3580 AND 3582 SERIES POSITIONERS
3581 AND 3583 SERIES TRANSMITTERS**

March 1997

	Kits		
	Seal Material		
	Nitrile	Fluoroelastomer	EPDM
Positioner/Transmitter Repair Parts (all types)	R3580X00022	R3580X00032	Not Available
Type 3582 Positioner Repair with Nozzle and Flapper	R3582X00012	R3582X00022	R3582X00032
Type 83L Relay Repair Parts	R83LX000012	R83LX000022	R83LX000042
Type 83L Relay Replacement			
3580 and 3582 Series	R3580XRS012	R3580XRH012	R3580XNS012
3581 and 3583 Series	R3580XRS022	Not Available	Not Available

Included Parts

Key	Description	Quantity		
<i>Positioner/Transmitter Repair (all types)</i>				
11	O-ring	1	1	
16	O-ring	1	1	
17	O-ring	1	1	
18C	O-ring (3580 & 3581 Series only)	1	---	
18E	O-ring (3580 & 3581 Series only)	1	---	
18F	O-ring (3580 & 3581 Series only)	---	2	
33B	Cover gasket (aluminum cover)	1	1	
34C	Gasket	1	1	
34H/104	Case gasket	1	1	
73	O-ring (3582 & 3583 Series only)	2	2	
<i>Type 3582 Positioner Repair with Nozzle and Flapper</i>				
11	O-ring	1	1	1
16	O-ring	1	1	---
17	O-ring	1	1	---
18	Nozzle	1	1	1
19B	Flapper	1	1	1
19E	Flapper screw	2	2	2
33B	Cover gasket (aluminum cover)	1	1	1
34C	Gasket	1	1	1
73	O-ring	2	2	2
104	Case gasket	1	1	1
<i>Type 83L Relay Repair</i>				
5	Gasket	1	1	1
6	Valve plug	1	1	1
7	Diaphragm assembly	1	1	1
8	Diaphragm	1	1	1
11	Spring	1	1	1
13	O-ring	1	1	1
14	O-ring	1	1	1
15	O-ring	3	3	3
19	O-ring	1	1	1
<i>Type 83L Relay Replacement</i>				
10	Relay mounting screw	2	2	2
13	O-ring	1	1	1
15	O-ring	3	3	3
32	Relay assembly	1	1	1

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FISHER-ROSEMOUNT

3610J AND 3620J SERIES POSITIONER

March 1991

Construction

Type 3610J w/o bypass and Type 3620J	---
Type 3610J with bypass	R3610JX0012
Type 3610JP, 3611JP, 3620JP, or 3621JP	---
Bypass assembly kit for field installation	R3610JXBP12

Kits

R3610JX0022

R3610JPX012

Included Parts

Key Description

Quantity

Positioner Parts

7	Relay supply diaphragm assembly	1	1
8	Relay nozzle diaphragm assembly	1	1
10	Pivot pin	1	1
18	Flapper	1	1
24	Reversing plate gasket	1	1
64	O-ring	2	2
115D	Pressure plate gasket	1	1
115F	Body plug gasket	2	2
115G	Valve plug	2	2
115H	Spring	2	2
116	Nozzle assembly	1	1
118	Lower input diaphragm	1	1
119	Upper input diaphragm	1	1
120	O-ring	1	1
121	O-ring	1	1
136	Sealing screw	1	1
159	O-ring (not required for 3620J Series)	5	4
163	Bypass body gasket	1	---
164	Adaptor gasket	1	---
167	O-ring	1	---
168	O-ring	2	---
---	Nozzle relay head holder	1	1
---	Supply relay head holder	1	1
---	Instruction sheet	1	1

Bypass Assembly Kit for Field Installation

---	Bypass valve assembly	1
54	Cap screw	2
164	Adaptor gasket	1

TYPE 3622 ELECTRO-PNEUMATIC CONVERTER

March 1989

Kit

R3622X00012

Included Parts

Key Description

Quantity

Converter

22	Filter	1
23	O-ring	1
24	O-ring	1
26	O-ring	1
27	O-ring	2
29	O-ring	1
36	O-ring	4

Converter Module

12	O-ring	1
----	--------	---

TYPE 3660 AND 3661 POSITIONERS

September 1990

Construction

Type 3660 with 3 to 15 psi input
 Type 3660 with 6 to 30 psi input
 Type 3661

	Kits	
R3660X00012	---	
---	R3660X00022	
R3660X00012	---	

Included Parts

Key	Description	Quantity	
9	Flapper	1	1
26	O-ring (only 2 required on Type 3660)	3	2
27	O-ring	2	2
28	Input diaphragm assembly	1	1
29	Output diaphragm assembly	1	1
43	O-ring (Type 3660 with bypass only)	1	1
44	O-ring (Type 3660 with bypass only)	1	1
45	O-ring (Type 3660 with bypass only)	2	2
49	O-ring (Type 3660 with bypass only)	3	3
52	O-ring (not required on Type 3660)	1	---
95	O-ring (only 2 required on Type 3660)	3	2
97	Cover screw gasket	2	2

TYPE 3710 POSITIONER

November 1992

Positioner Repair
 Beacon Assembly Kit for Field Installation

Kit
R3710X00012
12B2640X392

Included Parts

Key	Description	Quantity
<i>Positioner Repair</i>		
2	O-ring	3
17	Flanged bearing	2
19	O-ring	1
22	Flanged bearing	1
29	Action block gasket	1
30B	Input module diaphragm	1
31	O-ring	1
59	Purge tube O-ring (purge tube only)	2
<i>Beacon Assembly Kit</i>		
10	Beacon indicator	1
11	Extension feedback shaft	1
11A	Roll pin	1

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FISHER-ROSEMOUNT

TYPE 3722 ELECTRO-PNEUMATIC CONVERTER

July 1995

Kit

R3722X00012

Included Parts

Key	Description	Quantity
76	O-ring	1
77	O-ring	2
79	O-ring	1
85	O-ring	2
88	Filter	1

4100W AND 4100Z SERIES CONTROLLERS

August 1985

NOTE: Type 4102W and 4102Z do not require and orifice assembly.

Orifice Size

Large (50-60)

Small (60-72)

Kits

R4100X00L12

R4100X00S12

Included Parts

Key	Description	Quantity
20	Gasket	1
24	Orifice flapper	1
27	Flapper spring	1
30	Orifice assembly	1
83	Cover gasket (Z Series)	1

4150, 4150K, 4156, 4160, 4160K, 4166, AND 4166K SERIES CONTROLLERS

May 1999

Kits

Controller Repair Parts
Relay Repair Parts
Relay Replacement

Low Temperature	High Temperature
R4150X00L12	R4150X00H22
RRELAYX0L12	RRELAYX0H12
RRELAYX0L22	RRELAYX0H22

Included Parts

Key	K-Series Key	Description	Quantity	
<i>Controller Repair</i>				
5	5	Relay base gasket	1	1
9	9	O-ring	1	1
10	10	Gasket	1	1
21	21	Cover gasket	1	1
24	24	Gasket	2	2
37	---	Bellows frame gasket (not required on K Series)	1	1
38	53	Gaskets	2	2
42	64	Connecting link	1	1
44	58	O-ring	1	1
45	65	Link bearing (2 per unit)	4	4
56	59	Reversing block	1	1
57	55	O-rings	5	5
59	57	Nozzle	1	1
61	45	Flapper	1	1
68	46	Machine screw	1	1
71	56	Sealing screw	1	1
72	61	Reversing block screw	1	1
77	63	Machine screw	2	2
261	60	Sleeve	1	1
---	370	Washer (2 per unit)	4	4
<i>Relay Repair</i>				
7	7	Relay gasket	1	1
85 ⁽¹⁾	85 ⁽¹⁾	Diaphragm casing assembly	1	1
86	86	Relay diaphragm assembly	1	1
87	87	Valve plug	1	1
88	88	Plug and wire assembly	1	1
90	90	O-ring	2	2
91	91	Relay top diaphragm	1	1
92	92	Relay spring	1	1
93	93	Valve spring	1	1
94	94	Spring plate gasket	1	1
99	99	Bottom gasket	---	1
100	100	Top gasket	---	1
<i>Relay Replacement</i>				
7	7	Relay gasket	1	1
---	---	Relay	1	1
30	81	Relay mounting screws	2	2
---	81	Relay mounting screws	2	2

1. Updates pre-February 1990 constructions.

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FISHER-ROSEMOUNT

4190 SERIES CONTROLLERS

June 1995

Kits

R4190X00C12
R83LX000012

Controller Repair
Type 83U Relay repair

Included Parts

Key	Description	Quantity
<i>Controller Repair</i>		
4	Frame gasket	1
5	Gasket	1
7	O-ring	3
8	O-ring	3
24	O-ring	2
52	O-ring	2
<i>Type 83U Relay Repair</i>		
5	Gasket	1
6	Valve plug	1
7	Diaphragm assembly	1
8	Diaphragm	1
11	Spring	1
13	O-ring	1
14	O-ring	1
15	O-ring (only 1 required for Type 83U)	3
19	O-ring	1

4190 SERIES AUTO/MANUAL

July 1983

Kit

R4190X0AM12

Included Parts

Key	Description	Quantity
277	Valve plug	1
278	Plastic tube	1
279	Ball	1
281	Diaphragm assembly	1
292	O-ring	1
293	O-ring	1
294	O-ring	1
298	O-ring	1
306	Closing plate gasket	1
312	O-ring	3

4190 SERIES CASE HANDLE

March 1984

Kit

R4190X00H12

Included Parts

Key	Description	Quantity
---	Sealing screw	1
---	Spring washer	1
---	Cover hook	1
---	Lever retainer	1
---	Lever	1

D101207X012

4190 SERIES POINTER

April 1991

Kit

R4190X00P12

Included Parts

Key	Description	Quantity
---	Pointer and bracket assembly	1
---	Machine screw	3
---	Washer	2
---	Washer	1

**4190 SERIES RETROFIT
(Auto/Manual Station and Anti-Reset Windup)**

October 1985

Auto/Manual Station**Type Number**4190
4190**Tubing Material**Copper
Stainless steel**Kits**R4190X00B12
R4190X00S12**Anti-Reset Windup****Type Number**4190B
4190B
4190C
4190C**Tubing Material**Copper
Stainless steel
Copper
Stainless steel**Kits**R4190X00B22
R4190X00S22
R4190X00B22
R4190X00S22**Included Parts**

Key	Description	Quantity
<i>Auto/Manual Station</i>		
138	Auto/manual assembly	1
273	Auto/manual station	1
312	O-ring	3
313	Auto/manual scale	1
314	Machine screw	1
315	Machine screw	1
316	Machine screw	1
<i>Anti-Reset Windup</i>		
44	Relief tubing assembly	1
55	Differential relief valve	1

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TYPE 4660 BLOCK/BLEED RELAY ASSEMBLY

April 1987

	Standard Temperature	Kits	Low Temperature
Relay Repair Parts	R4660XRLY12		Not Available
Relay Replacement	R4660XBBA22		R4660XAVR22

Included Parts

Key	Description	Quantity	
<i>Relay Repair</i>			
46	Disk	2	Not Available
49	Diaphragm	1	Not Available
50	Spring	1	Not Available
52	End cap gasket	1	Not Available
53	O-ring	2	Not Available
<i>Relay Replacement</i>			
---	Block and bleed assembly	1	1
53	O-ring	2	2
57	Fillister head screw	2	2

TYPE 4660 BOURDON TUBE/FLAPPER

May 1986

Bourdon Tube Rating, Psig (Bar)	Kits		
	Steel	Bourdon Tube Material Stainless Steel	K-Monel
100 (7)	R4660XBTFB2	R4660XBTFJ2	R4660XBTF12
250 (17)	R4660XBTFC2	R4660XBTFK2	R4660XBTF22
500 (35)	R4660XBTFD2	R4660XBTFL2	R4660XBTF32
1000 (70)	R4660XBTFE2	R4660XBTFM2	R4660XBTF42
1500 (100)	R4660XBTFE2	R4660XBTFN2	R4660XBTF52
2500 (170)	R4660XBTFE2	R4660XBTFP2	R4660XBTF62
5000 (350)	---	R4660XBTFR2	R4660XBTF72
7500 (500)	---	R4660XBTFSS2	R4660XBTF82
10,000 (700)	---	---	R4660XBTF92

Included Parts

Key	Description	Quantity	
16	Bourdon tube	1	1
18	Flapper spring	1	1
27	Machine screw	2	2
73	Label	2	2
---	NACE letter	---	1

TYPE 4660 FRONT COVER ASSEMBLY

August 1983

Kit

R4660XFCA22

Included Parts

Key	Description	Quantity
4	Cover	1
6	Cover screw	2
12	Cable assembly	1
19	Cable screw	1

TYPE 4660 NOZZLE/FLAPPER

December 1983

Kit

R4660XNFA22

Included Parts

Key	Description	Quantity
- - -	Nozzle/flapper assembly	1
57	Fillister head screw	2

TYPE 4660 OUTPUT INDICATION

December 1985

Kit

R4660X0PUT2

Included Parts

Key	Description	Quantity
13	Cover plate	1
14	Cover plate gasket	1
88	Indicator	1
89	Elbow	2
90	Tubing	1
91	Tubing	2

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TYPE 4660 SET POINT ASSEMBLY

December 1985

Set Point

None	---
Low	R4660XSPA22
High	R4660XSPA12

Kits

R4660XSPA32

Included Parts

Key	Description	Quantity	Quantity
---	Set point assembly	1	---
67	Knob	1	1
68	Screw	2	---
69	Locking disk	1	1
70	Locking nut	1	1
71	Locking wedge	2	2

TYPE 4660 SET POINT INDICATOR

May 1986

Bourdon Tube Rating, Psig (Bar)

	High Set Point	Low Set Point
100 (7)	R4660XSP1A2	R4660XSP1J2
250 (17)	R4660XSP1B2	R4660XSP1K2
500 (35)	R4660XSP1C2	R4660XSP1L2
1000 (70)	R4660XSP1D2	R4660XSP1M2
1500 (100)	R4660XSP1E2	R4660XSP1N2
2500 (170)	R4660XSP1F2	R4660XSP1P2
5000 (350)	R4660XSP1G2	R4660XSP1R2
7500 (500)	R4660XSP1H2	R4660XSP1S2
10,000 (700)	R4660XSP1T2	R4660XSP1U2

Included Parts

Key	Description	Quantity	Quantity
---	Set Point assembly	1	1
---	Adjustment key	1	1

TYPE 4660 SUPPLY TEST PLUNGER ASSEMBLY

August 1983

Kit

R4660XSTP22

Included Parts

Key	Description	Quantity
---	Supply test plunger assembly	1

TYPE 4660 TAMPER-RESISTANT COVER

December 1985

Kit R4660XTPC12

Included Parts

Key	Description	Quantity
6	Cover screw	2
- - -	Hex tool	1

TYPE 5190 CASE HANDLE

December 1984

Kit R4190X00H12

Included Parts

Key	Description	Quantity
- - -	Sealing screw	1
- - -	Spring washer	1
- - -	Cover hook	1
- - -	Lever retainer	1
- - -	Lever	1

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FISHER-ROSEMOUNT

TYPE 6351 PILOT

August 1985

Repair kit includes nitrile valve plug with brass stem. Stainless steel valve spring, nitrile diaphragm assembly, and composition gaskets. Filter element is cellulose.

Kit R6351X00012

Included Parts

Key	Description	Quantity
<i>Pilot Parts</i>		
4	Valve plug	1
6	Valve spring	1
7	Diaphragm assembly	1
23	Body plug gasket	1
<i>P590 Series Filter</i>		
2	Filter element	1
7	Gasket	1

TYPE 6352, 6353, 6354H, 6354L, AND 6354M PILOTS

March 2000

Type	Kits
6352	R6352X00012
6353	R6353X00012
6354	R6354X00012

Included Parts

Key	Description	Quantity
<i>Pilot Parts</i>		
4	Valve plug	1
5	Diaphragm assembly	1
12	Body plug gasket	1
12	Body plug O-ring	1
17	O-ring	1
20	Closing cap gasket	1
<i>P590 Series Filter</i>		
2	Filter element	1
7	Gasket	1

TYPE 6355 THOUGH 6365 PILOTS

March 2000

Type		Kits		
6355	R6355X00012	---	---	---
6356	R6356X00012	---	---	---
6357	R6357X00012	---	---	---
6358	---	R6358X00012	---	---
6365	spring range psig, (bar)			
	1/2 to 10 (0.034 to 0.69)	---	---	R6365X00012
	3 to 125 (0.21 to 8.6)	---	---	R6365X00022
	85 to 300 (5.9 to 21)	---	---	R6365X00032

Included Parts

Key	Description	Quantity		
<i>Pilot Parts</i>				
4	Valve plug	1	1	1
5	Diaphragm assembly	1	1	1
13	Body plug gasket	1	1	1
13	Body plug O-ring	---	1	1
14	Valve spring	1	1	1
19	Closing cap gasket	1	1	1
36	Gasket	---	2	1
37	O-ring	---	1	---
<i>P590 Series Filter</i>				
2	Filter element	1	1	1
7	Gasket	1	1	1

TYPE 6392 PILOT

December 1983

Kit R6392X00012

Included Parts

Key	Descriptions	Quantity
3	Orifice	1
4	Valve plug	1
7	Diaphragm	2
8	Diaphragm gasket	1
11	Valve plug spring	1
12	Strainer screen	1
26	Valve plug cap	1

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FISHER-ROSEMOUNT

TYPE 6492H AND 6492L PILOTS

August 1992

Type

6492H

6492L

Kits

R6492HX0012

R6492LX0012

Included Parts

Key	Description	Quantity
4	Valve plug	1
5	Seat ring	1
7	Valve stem	1
8	Bellows retainer	1
9	Bellows	1
10	Diaphragm	2
18	Diaphragm gasket	1

Type 8510- & 8550-to-8560 Conversion (Class 150)

TYPE 8510- or 8550-8560 ACTUATOR CONVERSION KITS (Class 150)

June 1994

In most installations, existing Fisher Controls Type 8510 and 8550 valves on Fisher Controls actuators can be replaced with Type 8560 valves of the same nominal size. For some sizes and ratings, an actuator conversion kit, consisting of the hub, yoke and bushing, lever, or all of these parts, will be required. Refer to the interchangeability table to see if a kit is required (a kit is required if the valves are not interchangeable and the word "No" appears in the Interchangeability column). Then refer to the part number table to determine the parts required and the kit part number. Some sizes of Class 150 valves can be replaced (without new actuator parts) with Class 300 valves; see the comments column of the interchangeability table.

Interchangeability

VALVE SIZE, INCHES	SHAFT DIAMETER, INCHES (SPLINE & YOKE ⁽¹⁾)		INTER-CHANGE-ABLE?	COMMENTS
	8560	8510 or 8550		
3	1/2	5/8	No	3 -inch Class 150 Type 8510 or 8550 valves can be replaced with a Class 300 Type 8560 valve without new actuator parts. The Class 150 line studs will not have the line-centering capabilities on the Class 300 valve.
4	5/8	3/4	No	4- and 6-inch Class 150 Type 8510 or 8550 valves can be replaced with a Class 300 Type 8560 valve without new actuator parts.
6	3/4	1	No	
8	1	1-1/4	No	8-inch Class 150 Type 8510 or 8550 valves can be replaced with a Class 300 Type 8560 valve without new actuator parts. A small amount of grinding might be required on the body neck region to allow Class 150 studs to clear the Class 300 valve.
10	1-1/4	1-1/4	Yes	---
12	1-1/2	1-1/2	Yes	---

1. Diameter is the same near the spline as it is in the yoke bearing. Use this diameter for actuator size selection.

Part Numbers

Actuator Type	Actuator Size	Parts in Kit	Comments	Kit Part Number
3-Inch Class 150 Type 8510 or 8550				
1051 & 1052	33	Lever	W/O Manual Actuator or Wrench-Operated Extension	75B0275X182
			W/Manual Actuator or Wrench-Operated Extension	75B0275X192
	30	Yoke/Bushing, Hub, & Lever	Standard or W/Types 304 or 3552 or PMV	75B0275X202
			W/Type 3555T, NAMCO Limit Switches, or Micro Switches LSA & LSX or W/GO-713760 Switches	75B0275X212
			W/Micro Switches Except LSA & LSX	75B0275X222
			Standard or W/Types 304 or 3552 or PMV	75B0275X232
	40	Yoke/Bushing, Hub, & Lever	W/Type 3555T, NAMCO Limit Switches, or Micro Switches LSA & LSX or W/GO-713760 Switches	75B0275X242
			W/Micro Switches Except LSA & LSX	75B0275X252
1061	30	Yoke/Bushing, Hub, & Lever	Standard or W/Types 304 or 3552 or W/ or W/O PMV	75B0275X262
			W/Type 3555T, NAMCO Limit Switches, or Micro Switches LSA & LSX or W/GO-713760 Switches	75B0275X272
			W/Micro Switches Except LSA & LSX	75B0275X282

- Continued -

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FISHER-ROSEMOUNT

**TYPE 8510- or 8550-8560 ACTUATOR
CONVERSION KITS (Class 150) (Continued)**

June 1994

Actuator Type	Actuator Size	Parts in Kit	Comments	Kit Part Number
3-Inch Class 150 Type 8510 or 8550 (Continued)				
1066 & 1066SR	20, 27	Hub	W/O Type 1078	75B0275X292
	20	Hub	Standard Construction W/Wrench Override or W/Type 1078	75B0275X302
	27			75B0275X312
	20	Hub	Reverse Construction W/Wrench Override or W/Type 1078	75B0275X322
	27			75B0275X332
4-Inch Class 150 Type 8510 or 8550				
1051 & 1052	33	Lever, Yoke, & Washer	W/O Manual Actuator or Wrench-Operated Extension	75B0275X572
			W/Manual Actuator or Wrench-Operated Extension	75B0275X582
	30	Yoke/Bushing, Hub, & Lever	Standard or W/Types 304 or 3552 or PMV	75B0275X592
			W/Type 3555T, NAMCO Limit Switches, or Micro Switches LSA & LSX or W/GO-713760 Switches	75B0275X602
			W/Micro Switches Except LSA & LSX	75B0275X612
	40	Yoke/Bushing, Hub, & Lever	Standard or W/Types 304 or 3552 or PMV	75B0275X622
			W/Type 3555T, NAMCO Limit Switches, or Micro Switches LSA & LSX or W/GO-713760 Switches	75B0275X632
			W/Micro Switches Except LSA & LSX	75B0275X642
			Standard or W/Types 304 or 3552 or W/ or W/O PMV	75B0275X652
	1061	30	Yoke/Bushing, Hub, & Lever	W/Type 3555T, NAMCO Limit Switches, or Micro Switches LSA & LSX or W/GO-713760 Switches
W/Micro Switches Except LSA & LSX				75B0275X672
Standard or W/Types 304 or 3552 or W/ or W/O PMV				75B0275X682
1066 & 1066SR	20	Hub & Yoke	W/O Type 1078	75B0275X682
	27			75B0275X692
	20	Hub & Yoke	Standard Construction W/Wrench Override or W/Type 1078	75B0275X702
	27			75B0275X712
	20	Hub & Yoke	Reverse Construction W/Wrench Override or W/Type 1078	75B0275X722
	27			75B0275X732
6-Inch Class 150 Type 8510 or 8550				
1051 & 1052	40	Yoke/Bushing, Hub, & Lever	Standard or W/Types 304 or 3552 or PMV	75B0275X012
			W/Type 3555T, NAMCO Limit Switches, or Micro Switches LSA & LSX or W/GO-713760 Switches	75B0275X022
			W/Micro Switches Except LSA & LSX	75B0275X032
	60	Yoke/Bushing, Hub, & Lever	Standard or W/Types 304 or 3552 or PMV	75B0275X042
			W/Type 3555T, NAMCO Limit Switches, or Micro Switches LSA & LSX or W/GO-713760 Switches	75B0275X052
			W/Micro Switches Except LSA & LSX or W/Sealed PMV	75B0275X062
1061	30	Yoke/Bushing, Hub, & Lever	Standard or W/Types 304 or 3552 or W/ or W/O PMV	75B0275X012
			W/Type 3555T, NAMCO Limit Switches, or Micro Switches LSA & LSX or W/GO-713760 Switches	75B0275X022
			W/Micro Switches Except LSA & LSX	75B0275X032
	40, 60, & 68	Yoke/Bushing, Hub, & Lever	Standard or W/Types 304 or 3552 or W/ or W/O PMV	75B0275X072
			W/Type 3555T, NAMCO Limit Switches, or Micro Switches LSA & LSX or W/GO-713760 Switches	75B0275X082
			W/Micro Switches Except LSA & LSX or W/Sealed PMV	75B0275X092

- Continued -

**8510- & 8550-to-8560
Conversion (Class 150)**

**TYPE 8510- or 8550-8560 ACTUATOR
CONVERSION KITS (Class 150) (Continued)**

June 1994

Actuator Type	Actuator Size	Parts in Kit	Comments	Kit Part Number
6-Inch Class 150 Type 8510 or 8550 (Continued)				
1066 & 1066SR	20, 27	Hub	W/O Type 1078	75B0275X102
	75			75B0275X112
	20	Hub	Standard Construction W/Wrench Override or W/Type 1078	75B0275X122
	27			75B0275X132
	75			75B0275X142
	20	Hub	Reverse Construction W/Wrench Override or W/Type 1078	75B0275X152
	27			75B0275X162
	75			75B0275X172
8-Inch Class 150 Type 8510 or 8550				
1051 & 1052	40	Yoke/Bushing, Hub, & Lever	Standard or W/Types 304 or 3552 or PMV	75B0275X742
			W/Type 3555T, NAMCO Limit Switches, or Micro Switches LSA & LSX or W/GO-713760 Switches	75B0275X752
			W/Micro Switches Except LSA & LSX	75B0275X762
	60	Yoke/Bushing, Hub, & Lever	Standard or W/Types 304 or 3552 or PMV	75B0275X772
			W/Type 3555T, NAMCO Limit Switches, or Micro Switches LSA & LSX or W/GO-713760 Switches	75B0275X782
			W/Micro Switches Except LSA & LSX or W/Sealed PMV	75B0275X792
1061	30	Yoke/Bushing, Hub, & Lever	Standard or W/Types 304 or 3552 or W/ or W/O PMV	75B0275X802
			W/Type 3555T, NAMCO Limit Switches, or Micro Switches LSA & LSX or W/GO-713760 Switches	75B0275X812
			W/Micro Switches Except LSA & LSX	75B0275X822
	40, 60, & 68	Yoke/Bushing, Hub, & Lever	Standard or W/Types 304 or 3552 or W/ or W/O PMV	75B0275X832
			W/Type 3555T, NAMCO Limit Switches, or Micro Switches LSA & LSX or W/GO-713760 Switches	75B0275X842
			W/Micro Switches Except LSA & LSX or W/Sealed PMV	75B0275X852
1066 & 1066SR	75	Hub & Yoke	W/O Type 1078	75B0275X862
			Standard Construction W/Wrench Override or W/Type 1078	75B0275X872
			Reverse Construction W/Wrench Override or W/Type 1078	75B0275X882

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FISHER-ROSEMOUNT

TYPE 8510-8560 ACTUATOR CONVERSION KITS (Class 300)

June 1994

Interchangeability

VALVE SIZE, INCHES	SHAFT DIAMETER, INCHES (SPLINE & YOKE ⁽¹⁾)		INTERCHANGEABLE?
	8560	8510	
3	5/8	5/8	Yes
4	3/4	3/4	Yes
6	1	1	Yes
8	1-1/4	1-1/4	Yes
10	1-1/2	1-1/4	No
12	1-3/4	1-1/2	No

1. Diameter is the same near the spline as it is in the yoke bearing. Use this diameter for actuator size selection.

Part Numbers

Actuator Type	Actuator Size	Parts in Kit	Comments	Kit Part Number
10-Inch Class 300 Type 8510				
1051 & 1052	60	Yoke/Bushing, Hub, & Lever	Standard or W/Types 304 or 3552 or PMV	75B0275X342
			W/Type 3555T, NAMCO Limit Switches, or Micro Switches LSA & LSX or W/GO-713760 Switches	75B0275X352
			W/Micro Switches Except LSA & LSX or W/Sealed PMV	75B0275X362
	70	Yoke/Bushing, Hub, & Lever	Standard or W/Types 304 or 3552 or PMV	75B0275X372
			W/Type 3555T, NAMCO Limit Switches, or Micro Switches LSA & LSX or W/GO-713760 Switches	75B0275X382
			W/Micro Switches Except LSA & LSX	75B0275X392
1061	40, 60, & 68	Yoke/Bushing, Hub, & Lever	Standard or W/Types 304 or 3552 or W/ or W/O PMV	75B0275X402
			W/Type 3555T, NAMCO Limit Switches, or Micro Switches LSA & LSX or W/GO-713760 Switches	75B0275X412
			W/Micro Switches Except LSA & LSX or W/Sealed PMV	75B0275X422
1066 & 1066SR	75	Hub	W/O Type 1078	75B0275X432
			Standard Construction W/Wrench Override or W/Type 1078	75B0275X442
			Reservse Conscruction W/Wrench Override or W/Type 1078	75B0275X452
12-Inch Class 300 Type 8510				
1051 & 1052	60	Yoke/Bushing, Hub, & Lever	Standard or W/Types 304 or 3552 or PMV	75B0275X892
			W/Type 3555T, NAMCO Limit Switches, or Micro Switches LSA & LSX or W/GO-713760 Switches	75B0275X902
			W/Micro Switches Except LSA & LSX or W/Sealed PMV	75B0275X912
	70	Yoke/Bushing, Hub, & Lever	Standard or W/Types 304 or 3552 or PMV	75B0275X922
			W/Type 3555T, NAMCO Limit Switches, or Micro Switches LSA & LSX or W/GO-713760 Switches	75B0275X932
			W/Micro Switches Except LSA & LSX	75B0275X942
1061	40, 60, & 68	Yoke/Bushing, Hub, & Lever	Standard or W/Types 304 or 3552 or W/ or W/O PMV	75B0275X952
			W/Type 3555T, NAMCO Limit Switches, or Micro Switches LSA & LSX or W/GO-713760 Switches	75B0275X962
			W/Micro Switches Except LSA & LSX or W/Sealed PMV	75B0275X972

TYPE 8522-8560 ACTUATOR CONVERSION KITS

April 1999

In most installations, existing Fisher Controls Type 8522 valves on Fisher Controls actuators can be replaced with Type 8560 valves of the same nominal size. For some sizes, an actuator conversion kit, consisting of the hub, yoke and bushing, lever, or all of these parts, will be required. Refer to the interchangeability table to see if a kit is required (a kit is required if the valves are not interchangeable and the word "No" appears in the Interchangeability column). Then refer to the part numbers table to determine the parts required and the kit part number.

Interchangeability

VALVE SIZE, INCHES	SHAFT DIAMETER, INCHES (SPLINE & YOKE ⁽¹⁾)		INTERCHANGEABLE?
	8560	8522	
3	1/2	1/2	Yes
4	5/8	5/8	Yes
6	3/4	7/8	No
8	1	7/8	No ⁽²⁾
10	1-1/4	1-1/4	Yes
12	1-1/2	1-1/2	Yes

1. Diameter is the same near the spline as it is in the yoke bearing.
 2. Yes, for use with Types 1066 and 1066SR.

Part Numbers

Actuator Type	Actuator Size	Parts in Kit	Comments	Kit Part Number
6-Inch Class 150 Type 8522				
1051 & 1052	40	Yoke/Bushing, Hub, & Lever	Standard or W/Types 304 or 3552 or PMV	75B0275X012
			W/Type 3555T, NAMCO Limit Switches, or Micro Switches LSA & LSX or W/GO-713760 Switches	75B0275X022
			W/Micro Switches except LSA & LSX	75B0275X032
	60	Yoke/Bushing, Hub, & Lever	Standard or W/Types 304 or 3552 or PMV	75B0275X042
			W/Type 3555T, NAMCO Limit Switches, or Micro Switches LSA & LSX or W/GO-713760 Switches	75B0275X052
			W/Micro Switches Except LSA & LSX or W/Sealed PMV	75B0275X062
1061	30	Yoke/Bushing, Hub, & Lever	Standard or W/Types 304 or 3552 or W/ or W/O PMV	75B0275X012
			W/Type 3555T, Namco Limit Switches, & Micro Switches LSA & LSX or W/GO-713760 Switches	75B0275X022
			W/Micro Switches Except LSA & LSX	75B0275X032
	40, 60, & 68	Yoke/Bushing, Hub, & Lever	Standard or W/Types 304 or 3552 or W/ or W/O PMV	75B0275X072
			W/Type 3555T, NAMCO Limit Switches, or Micro Switches LSA & LSX or W/GO-713760 Switches	75B0275X082
			W/Micro Switches Except LSA & LSX or W/Sealed PMV	75B0275X092
1066 & 1066SR	20, 27	Hub	W/O Type 1078	75B0275X102
	75			75B0275X112
	20	Hub	Standard Construction W/Wrench Override or W/Type 1078	75B0275X122
	27			75B0275X132
	75			75B0275X142
	20	Hub	Reverse Construction W/Wrench Override or W/Type 1078	75B0275X152
	27			75B0275X162
	75			75B0275X172
	8-Inch Class 150 Type 8522			
1051 & 1052	40	Yoke/Bushing	---	75B0275X982
	60		---	75B0275X992
1061	30	Yoke/Bushing	---	75B0275X982
	40, 60, & 68		---	75B0275X992

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FISHER-ROSEMOUNT

TYPE 8532-8560 ACTUATOR CONVERSION KITS (Class 150)

April 1999

In most installations, existing Fisher Controls Type 8532 valves on Fisher Controls actuators can be replaced with Type 8560 valves of the same nominal size. For some sizes and ratings, an actuator conversion kit, consisting of the hub, yoke and bushing, lever, or all of these parts, will be required. Refer to the interchangeability table to see if a kit is required (a kit is required if the valves are not interchangeable and the word “No” appears in the Interchangeability column). Then refer to the part number table to determine the parts required and the kit part number.

Interchangeability

VALVE SIZE, INCHES	SHAFT DIAMETER, INCHES			INTERCHANGEABLE?
	8560 Spline ^(1,2) & Yoke ^(1,3)	8532		
		Spline ⁽²⁾	Yoke ⁽³⁾	
3	1/2	9/16 x 5/8 ⁽⁴⁾	9/16	No
4	5/8	5/8	5/8	Yes
6	3/4	7/8	7/8	No
8	1	7/8	7/8	No ⁽⁵⁾
10	1-1/4	1-1/8 x 1-1/4 ⁽⁴⁾	1-1/8	Yes
12	1-1/2	1-1/4	1-1/4	No

1. Diameter is the same near the spline as it is in the yoke bearing.
2. Nominal shaft diameter near the spline. Use this diameter for actuator size selection.
3. Nominal shaft diameter in the yoke bearing.
4. Where two dimensions are shown, the first is the shaft diameter in the yoke bearing, and the second is the spline size.
5. Yes, for use with Types 1066 and 1066SR.

Part Numbers

Actuator Type	Actuator Size	Parts in Kit	Comments	Kit Part Number
3-Inch Class 150 Type 8532				
1051 & 1052	33	Lever	W/O Manual Actuator or Wrench-Operated Extension	75B0275X182
			W/Manual Actuator or Wrench-Operated Extension	75B0275X192
	30	Yoke/Bushing, Hub, & Lever	Standard or W/Types 304 or 3552 or PMV	75B0275X202
			W/Type 3555T, NAMCO Limit Switches, or Micro Switches LSA & LSX or W/GO-713760 Switches	75B0275X212
			W/Micro Switches Except LSA & LSX	75B0275X222
	40	Yoke/Bushing, Hub, & Lever	Standard or W/Types 304 or 3552 or PMV	75B0275X232
			W/Type 3555T, NAMCO Limit Switches, or Micro Switches LSA & LSX or W/GO-713760 Switches	75B0275X242
			W/Micro Switches Except LSA & LSX	75B0275X252
	1061	30	Yoke/Bushing, Hub, & Lever	Standard or W/Types 304 or 3552 or W/ or W/O PMV
W/Type 3555T, NAMCO Limit Switches, or Micro Switches LSA & LSX or W/GO-713760 Switches				75B0275X272
W/Micro Switches Except LSA & LSX				75B0275X282
1066 & 1066SR	20, 27	Hub	W/O Type 1078	75B0275X292
	20	Hub	Standard Construction W/Wrench Override or W/Type 1078	75B0275X302
	27			75B0275X312
	20	Hub	Reverse Construction W/Wrench Override or W/Type 1078	75B0275X322
	27			75B0275X332

- Continued -

TYPE 8532-8560 ACTUATOR CONVERSION KITS (Class 150) (Continued)

April 1999

Actuator Type	Actuator Size	Parts in Kit	Comments	Kit Part Number	
6-Inch Class 150 Type 8532					
1051 & 1052	40	Yoke/Bushing, Hub, & Lever	Standard or W/Types 304 or 3552 or PMV	75B0275X012	
			W/Type 3555T, NAMCO Limit Switches, or Micro Switches LSA & LSX or W/GO-713760 Switches	75B0275X022	
			W/Micro Switches Except LSA & LSX	75B0275X032	
	60	Yoke/Bushing, Hub, & Lever	Standard or W/Types 304 or 3552 or PMV	75B0275X042	
			W/Type 3555T, NAMCO Limit Switches, or Micro Switches LSA & LSX or W/GO-713760 Switches	75B0275X052	
			W/Micro Switches Except LSA & LSX or W/Sealed PMV	75B0275X062	
1061	30	Yoke/Bushing, Hub, & Lever	Standard or W/Types 304 or 3552 or W/ or W/O PMV	75B0275X012	
			W/Type 3555T, NAMCO Limit Switches, or Micro Switches LSA & LSX or W/GO-713760 Switches	75B0275X022	
			W/Micro Switches Except LSA & LSX	75B0275X032	
	40, 60, & 68	Yoke/Bushing, Hub, & Lever	Standard or W/Types 304 or 3552 or W/ or W/O PMV	75B0275X072	
			W/Type 3555T, NAMCO Limit Switches, or Micro Switches LSA & LSX or W/GO-713760 Switches	75B0275X082	
			W/Micro Switches Except LSA & LSX or W/Sealed PMV	75B0275X092	
1066 & 1066SR	20, 27	Hub	W/O Type 1078	75B0275X102	
	75			75B0275X112	
	20	Hub		75B0275X122	
	27			Standard Construction W/Wrench Override or W/Type 1078	75B0275X132
	75			75B0275X142	
	20	Hub		75B0275X152	
	27			Reverse Construction W/Wrench Override or W/Type 1078	75B0275X162
	75			75B0275X172	
8-Inch Class 150 Type 8532					
1051 & 1052	40	Yoke/Bushing	---	75B0275X982	
	60		---	75B0275X992	
1061	30	Yoke/Bushing	---	75B0275X982	
	40, 60, & 68		---	75B0275X992	
12-Inch Class 150 Type 8532					
1051 & 1052	60	Yoke/Bushing, Hub, & Lever	Standard or W/Types 304 or 3552 or PMV	75B0275X342	
			W/Type 3555T, NAMCO Limit Switches, or Micro Switches LSA & LSX or W/GO-713760 Switches	75B0275X352	
			W/Micro Switches Except LSA & LSX or W/Sealed PMV	75B0275X362	
	70	Yoke/Bushing, Hub, & Lever	Standard or W/Types 304 or 3552 or PMV	75B0275X372	
			W/Type 3555T, NAMCO Limit Switches, or Micro Switches LSA & LSX or W/GO-713760 Switches	75B0275X382	
			W/Micro Switches Except LSA & LSX	75B0275X392	
1061	40, 60, & 68	Yoke/Bushing, Hub, & Lever	Standard or W/Types 304 or 3552 or W/ or W/O PMV	75B0275X402	
			W/Type 3555T, NAMCO Limit Switches, or Micro Switches LSA & LSX or W/GO-713760 Switches	75B0275X412	
			W/Micro Switches Except LSA & LSX or W/Sealed PMV	75B0275X422	
1066 & 1066SR	75	Hub	W/O Type 1078	75B0275X432	
			Standard Construction W/Wrench Override or W/Type 1078	75B0275X442	
			Reverse Construction W/Wrench Override or W/Type 1078	75B0275X452	

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FISHER-ROSEMOUNT

TYPE 8532-8560 ACTUATOR CONVERSION KITS (Class 300)

April 1999

In most installations, existing Fisher Controls Type 8532 valves on Fisher Controls actuators can be replaced with Type 8560 valves of the same nominal size. For some sizes and ratings, an actuator conversion kit, consisting of the hub, yoke and bushing, lever, or all of these parts, will be required. Refer to the interchangeability table to see if a kit is required (a kit is required if the valves are not interchangeable and the word “No” appears in the Interchangeability column). Then refer to the part number table to determine the parts required and the kit part number.

Interchangeability

VALVE SIZE, INCHES	SHAFT DIAMETER, INCHES			INTERCHANGEABLE?
	8560 Spline ^(1,2) & Yoke ^(1,3)	8532		
		Spline ⁽²⁾	Yoke ⁽³⁾	
3	5/8	9/16 x 5/8 ⁽⁴⁾	9/16	Yes
4	3/4	5/8	5/8	No
6	1	7/8	7/8	No ⁽⁵⁾
8	1-1/4	1-1/4	1-1/4	Yes
10	1-1/2	1-1/2	1-1/2	Yes
12	1-3/4	1-3/4	1-3/4	Yes

1. Diameter is the same near the spline as it is in the yoke bearing.
2. Nominal shaft diameter near the spline. Use this diameter for actuator size selection.
3. Nominal shaft diameter in the yoke bearing.
4. Where two dimensions are shown, the first is the shaft diameter in the yoke bearing, and the second is the spline size.
5. Yes, for use with Types 1066 and 1066SR.

Part Numbers

Actuator Type	Actuator Size	Parts in Kit	Comments	Kit Part Number
4-Inch Class 300 Type 8532				
1051 & 1052	33	Lever, Yoke, & Washer	W/O Manual Actuator or Wrench-Operated Extension	75B0275X462
			W/Manual Actuator or Wrench-Operated Extension	75B0275X472
	30	Yoke/Bushing, Hub, & Lever	Standard or W/Types 304 or 3552 or PMV	75B0275X482
			W/Type 3555T, NAMCO Limit Switches, or Micro Switches LSA & LSX or W/GO-713760 Switches	75B0275X492
			W/Micro Switches Except LSA & LSX	75B0275X502
	40	Yoke/Bushing, Hub, & Lever	Standard or W/Types 304 or 3552 or PMV	75B0275X012
W/Type 3555T, NAMCO Limit Switches, or Micro Switches LSA & LSX or W/GO-713760 Switches			75B0275X022	
W/Micro Switches Except LSA & LSX			75B0275X032	
1061	30	Yoke/Bushing, Hub, & Lever	Standard or W/Types 304 or 3552 or W/ or W/O PMV	75B0275X012
			W/Type 3555T, NAMCO Limit Switches, or Micro Switches LSA & LSX or W/GO-713760 Switches	75B0275X022
			W/Micro Switches Except LSA & LSX	75B0275X032
1066 & 1066SR	20	Hub & Yoke	W/O Type 1078	75B0275X512
	27			75B0275X522
	20	Hub & Yoke	Standard Construction W/Wrench Override or W/Type 1078	75B0275X532
	27			75B0275X542
	20	Hub & Yoke	Reverse Construction W/Wrench Override or W/Type 1078	75B0275X552
	27			75B0275X562
6-Inch Class 300 Type 8532				
1051 & 1052	40	Yoke/Bushing	---	75B0275X982
	60		---	75B0275X992
1061	30	Yoke/Bushing	---	75B0275X982
	40, 60, & 68		---	75B0275X992

TYPE A11 and A21 VALVE BODIES

August 1992

Repair kits include recommended spare parts for PTFE, Phoenix III®/PTFE, or 316 stainless steel seal ring construction.

PTFE Seal Material and Packing Material

Valve Size, Inches	Class	Kits	
		Fluoroelastomer	EPR O-Ring
3	150/300	V138755X012	V141722X012
4	150/300	V138756X012	V141739X012
6	150/300	V138757X012	V141768X012
8	150	V138758X012	V141796X012
8	300	V138758X012	V141724X012
10	150	V138760X012	V141852X012
10	300	V138761X012	V141880X012
12	150	V138762X012	V141908X012
12	300	V138821X012	V141936X012
14	150	V138822X012	V141965X012
14	300	V138823X012	V141978X012
16	150	V138824X012	V141991X012
16	300	V138825X012	V142004X012
18	150	V138826X012	V142018X012
18	300	V138827X012	V142032X012
20	150	V138828X012	V142045X012
20	300	V138829X012	V142059X012
24	150	V138830X012	V142072X012
24	300	V138831X012	V142086X012

Included Parts

Key	Description	Quantity	
2	Seal ring	1	1
3	O-ring	1	1
4	Gasket (10- through 24-inch only)	1	1
11	Packing Set	1	1

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FISHER-ROSEMOUNT

TYPE A11 AND A21 VALVE BODIES (Continued)

Phoenix III®/PTFE Seal Material and Graphite Packing Material

August 1992

Kits

Body Size, Inch	Class	Fluoroelastomer O-Ring	EPR O-Ring
3	150/300	V141718X012	V141719X012
4	150/300	V141746X012	V141747X012
6	150/300	V141775X012	V141776X012
8	150	V141803X012	V141804X012
8	300	V141831X012	V141832X012
10	150	V141859X012	V141860X012
10	300	V141887X012	V141888X012
12	150	V141915X012	V141916X012
12	300	V141944X012	V141945X012
14	150	V141972X012	V141973X012
14	300	V141985X012	V141986X012
16	150	V141998X012	V141999X012
16	300	V142012X012	V142013X012
18	150	V142026X012	V142027X012
18	300	V142039X012	V142040X012
20	150	V142053X012	V142054X012
20	300	V142066X012	V142067X012
24	150	V142080X012	V142081X012

Included Parts

Key	Description	Quantity	
--	Gasket (10 through 24-inch only)	1	1
2	Seal ring	1	1
3	O-ring	1	1
4	Retaining ring gasket	1	1
11	Packing set	1	1

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TYPE A11 AND A21 VALVES BODIES (Continued)

316 Stainless Steel Seal Material and Graphite Packing Material

August 1992

Body Class, Inch	Class	Kits
14	150	V159840X012
14	300	V150941X012
16	150	V159841X012
16	300	V150942X012
18	150	V159842X012
18	300	V150943X012
20	150	V159843X012
20	300	V150944X012
24	150	V159844X012

Included Parts

Key	Description	Quantity
- - -	Gasket	1
2	Seal ring	1
4	Retaining ring gasket	1
11	Packing set	1

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FISHER-ROSEMOUNT

DESIGN BF PACKING BOX PARTS (Non Live-Loaded Packing)

September 1983

Body Size, Inches

- 3/4
- 1
- 1-1/2
- 2
- 3

Kits

- RBFX0000012
- RBFX0000022
- RBFX0000032
- RBFX0000042
- RBFX0000052

Included Parts

Key	Description	Quantity
6	Body gasket	2
7	Seat ring (metal seat only)	1
18	Packing set	1
19	Packing box ring	1
20	Upper wiper	1
22	Packing spring	1
23	Packing washer	2
26	Guide bushing	1
27	Lower wiper	1

DESIGN BF PACKING BOX PARTS (ENVIRO-SEAL®) (Repair)

July 1994

Repair kit includes double PTFE packing set and anti-extrusion washers.

Stems and packing box constructions that do not meet Fisher Controls stem finish specifications, dimensional tolerances, and design specifications, may adversely alter the performance of this packing unit.

Body Size, Inches

- 3/4, 1, 1-1/2, 2
- 3

Stem Diameter, Inch (mm)

- 1/2 (12.7)
- 5/8 (15.9)

Kits

- RBFXPACK012
- Not Available

Included Parts

Key	Description	Quantity
214	Anti-extrusion washer	4
215	Packing set	2

DESIGN BF PACKING BOX PARTS (ENVIRO-SEAL®) (Retrofit)

July 1994

Retrofit kit includes parts to convert existing Design BF valves to the ENVIRO-SEAL packing box construction.

Stems and packing box constructions that do not meet Fisher Controls stem finish specifications, dimensional tolerances, and design specifications, may adversely alter the performance of this packing kit.

Body Size, Inch	Stem Diameter, Inch (mm)	Kit
3/4, 1, 1-1/2	1/2 (12.7)	RBFPKRT012
2	1/2 (12.7)	Not Available
3	5/8 (15.9)	Not Available

Included Parts

Key	Description	Quantity
200	Packing stud	2
201	Packing flange	1
207	Guide bushing	1
211	Packing box ring	1
212	Packing nut	2
214	Anti-extrusion washer	4
215	Packing set	2
216	Packing spacer	1
217	Spring pack assembly	1
218	Lower wiper	1
- - -	Tag	1
- - -	Tie cable	1

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FISHER-ROSEMOUNT

BFC

Catalog 122—Parts Kits

DESIGN BFC PACKING BOX PARTS (Non Live-Loaded Packing)

September 1983

Body Size, Inches

3/4
1
1-1/2
2
3

Kits

RBFCX0000012
RBFCX0000022
RBFCX0000032
RBFCX0000042
RBFCX0000052

Included Parts

Key	Description	Quantity
6	Body gasket	1
7	Seat ring (metal seat only)	1
18	Packing set	1
19	Packing box ring	1
20	Upper wiper	1
22	Packing spring	1
23	Packing washer	2
26	Guide bushing	1
27	Lower wiper	1

DESIGN BFC PACKING BOX PARTS (ENVIRO-SEAL®) (Repair)

July 1994

Repair kit includes double PTFE packing set and anti-extrusion washers.

Stems and packing box constructions that do not meet Fisher Controls stem finish specifications, dimensional tolerances, and design specifications, may adversely alter the performance of this packing unit.

Body Size, Inches

3/4, 1, 1-1/2, 2
3

Stem Diameter, Inch (mm)

1/2 (12.7)
5/8 (15.9)

Kits

RBFXPACK012
Not Available

Included Parts

Key	Description	Quantity
214	Anti-extrusion washer	4
215	Packing set	2

D102069X012

DESIGN BFC PACKING BOX PARTS (ENVIRO-SEAL®) (Retrofit)

July 1994

Retrofit kit includes parts to convert existing Design BFC valves to the ENVIRO-SEAL packing box construction.

Stems and packing box constructions that do not meet Fisher Controls stem finish specifications, dimensional tolerances, and design specifications, may adversely alter the performance of this packing kit.

Body Size, Inch	Stem Diameter, Inch (mm)	Kit
3/4, 1, 1-1/2	1/2 (12.7)	RBFPKRT012
2	1/2 (12.7)	Not Available
3	5/8 (15.9)	Not Available

Included Parts

Key	Description	Quantity
200	Packing stud	2
201	Packing flange	1
207	Guide bushing	1
211	Packing box ring	1
212	Packing nut	2
214	Anti-extrusion washer	4
215	Packing set	2
216	Packing spacer	1
217	Spring pack assembly	1
218	Lower wiper	1
- - -	Tag	1
- - -	Tie cable	1

DESIGN CAV4 VALVE BODY

September 1983

Flushing trim kits include bonnet and cage gaskets and lower and upper flushing plates.

Body Size, Inch	Kits
2	RCAV4X00022
4	RCAV4X00042
6	RCAV4X00062

Included Parts

Key	Description	Quantity
6	Bonnet gasket	2
7	Cage gasket	1
30	Upper flushing plate	1
31	Lower flushing plate	1

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FISHER-ROSEMOUNT

DESIGN CE VALVE BODY (Non Live-Loaded Packing)

May 1991

Repair kits include FGM bonnet gasket, PTFE seat ring gasket, and double PTFE packing set with packing box parts including bushings and spacers as required by size. Kits do not apply to special alloy constructions.

Body Size, Inch	Stem Diameter, Inch (mm)	Kits
1/2, 3/4, & 1	1/2 (12.7)	RCEX0000012
1-1/2	1/2 (12.7)	RCEX0000022
2	3/4 (19.1)	RCEX0000032
3	1 (25.4)	RCEX0000042
4	1-1/4 (31.8)	RCEX0000052

Included Parts

Key	Description	Quantity
7	Seat ring gasket	1
8	Bonnet gasket	1
14	Packing box bushing	2
15	Packing set	2
17	Packing spacer (2 required for 1/2 through 2-inch body; 3 required for 3-inch body; 4 required for 4-inch body)	
18	Wiper	1

Additional parts in the packing box that may need replacing:

Packing Stud and Nut

Body Size, Inch	Stem Diameter, Inch (mm)	Part Number (Quantity)	
		Stud	Nut
1/2, 3/4, 1, 1-1/2	1/2 (12.7)	11B6951X032 (2)	1E944035252 (4)
2	3/4 (19.1)	11B6952X032 (3)	1A391535252 (6)
3	1 (25.4)	16A1061X052 (2)	1A375335252 (4)
4	1-1/4 (31.8)	11B3814X022 (3)	1E944035252 (6)

DESIGN CE PACKING BOX PARTS (ENVIRO-SEAL®) (Repair)

May 1991

Repair kits include double PTFE packing set and anti-extrusion washers.

Stem and packing box constructions that do not meet Fisher Controls stem finish specifications, dimensional tolerances, and design specifications, may adversely alter the performance of this packing kit.

Body Size, Inch	Stem Diameter, Inch (mm)	Kits
1/2, 3/4, 1, 1-1/2	1/2 (12.7)	RCEXPACK012
2	1/2 (12.7)	RCEXPACK012
2	3/4 (19.1)	RCEXPACK022
3	1 (25.4)	RCEXPACK032
4	1 (25.4)	RCEXPACK032
4	1-1/4 (31.8)	RCEXPACK042

Included Parts

Key	Description	Quantity
214	Anti-extrusion washer	4
215	Packing set	2

Additional parts in the packing box that may need replacing:

Packing Stud and Nut

Body Size, Inch	Stem Diameter, Inch (mm)	Part Number (Quantity)	
		Stud	Nut
1/2, 3/4, 1, 1-1/2	1/2 (12.7)	11B6951X032 (2)	1E944035252 (2)
2	1/2 (12.7)	11B6951X032 (2)	1E944035252 (2)
2	3/4 (19.1)	11B6952X032 (3)	1A391535252 (3)
3	1 (25.4)	16A1061X052 (2)	1A375335252 (2)
4	1 (25.4)	16A1061X052 (2)	1A375335252 (2)
4	1-1/4 (31.8)	11B3814X022 (3)	1E944035252 (3)

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FISHER-ROSEMOUNT

DESIGN CE PACKING BOX PARTS (ENVIRO-SEAL®)

September 1993

Retrofit kits include parts to convert existing Design CE valves with standard bonnets to the ENVIRO-SEAL packing box construction. 316 stainless steel retrofit kits include double PTFE packing set, stainless steel bolting, S31600/PTFE one-piece bushing, S31600 packing spacer, and 316 stainless steel/Inconel spring pack assembly. Hastelloy C retrofit kits include double PTFE packing set, Hastelloy C bolting, Hastelloy C/PTFE/glass three-piece bushing, Hastelloy C packing spacer, and Hastelloy C/Inconel spring pack assembly.

Stems and packing box constructions that do not meet Fisher Controls stem finish specifications, dimensional tolerances, and design specifications, may adversely alter the performance of this packing kit.

Body Size, Inch	Stem Diameter, Inch (mm)	Kits	
		316 Stainless Steel	Hastelloy C
1/2, 3/4, 1, 1-1/2	1/2 (12.7)	RCEXPKRT012	RCEXPKRT052
2	3/4 (19.1)	RCEXPKRT022	RCEXPKRT062
3	1 (25.4)	RCEXPKRT032	RCEXPKRT072
4	1-1/4 (31.8)	RCEXPKRT042	RCEXPKRT082

Included Parts

Key	Description	Quantity	
14	Packing box bushing	1	1
200	Packing stud (qty 2 for 1/2 through 1-1/2 and 3-inch bodies; qty 3 for 2 and 4-inch bodies)		
201	Packing flange	1	1
212	Packing nut (qty 2 for 1/2 through 1-1/2 and 3-inch bodies; qty 3 for 2 and 4-inch bodies)		
214	Anti-extrusion washer	4	4
215	Packing set	2	2
216	Packing spacer	1	1
217	Spring pack assembly	1	1
---	Tag	1	1
---	Tie cable	1	1

DESIGN CP PACKING BOX PARTS (Non Live-Loaded Packing)

June 1997

Stems and packing box constructions not supplied by Fisher Controls and that do not meet Fisher Controls stem finish specifications, dimensional tolerances, and design specifications, may adversely alter the performance of this packing kit.

Body Size, Inch	Stem Diameter, Inch (mm)	Kits	
		Double PTFE One-Piece Bushing	Single Graphite One-Piece Bushing
1, 1-1/2, & 2	1/2 (12.7)	RCPXPACK012	RCPXPACK032
2	5/8 (15.9)	RCPXPACK222	RCPXPACK232
3	1 (25.4)	RCPXPACK112	RCPXPACK132
4	1-1/4 (31.8)	RCPXPACK122	RCPXPACK142

Included Parts

Key	Description	Quantity	
208	Bushing	2	1
209	Packing ring	---	2
210	Packing ring	---	2
215	Packing set	2	---
219	Bushing	---	1

Additional parts in the packing box area that may need replacing:

Packing Stud and Nut

Body Size, Inch	Stem Diameter, Inch (mm)	Part Number (Quantity)	
		Stainless Steel	
		Stud	Nut
1, 1-1/2, & 2	1/2 (12.7)	1E944135072 (2)	1E944035252 (2)
2	5/8 (15.9)	1E944135072 (2)	1E944035252 (2)
3	1 (25.4)	16A1061X052 (2)	1A375335252 (2)
4	1-1/4 (31.8)	11B3814X022 (3)	1E944035252 (3)

Catalog 122

DESIGN CE PACKING BOX PARTS (ENVIRO-SEALR)

September 1993

Retrofit kits include parts to convert existing Design CE valves with standard bonnets to the ENVIRO-SEAL packing box construction. 316 stainless steel retrofit kits include double PTFE packing set, stainless steel bolting, S31600/PTFE one-piece bushing, S31600 packing spacer, and 316 stainless steel/Inconel spring pack assembly. Hastelloy C retrofit kits include double PTFE packing set, Hastelloy C bolting, Hastelloy C/PTFE/glass three-piece bushing, Hastelloy C packing spacer, and Hastelloy C/Inconel spring pack assembly.

Stems and packing box constructions that do not meet Fisher Controls stem finish specifications, dimensional tolerances, and design specifications, may adversely alter the performance of this packing kit.

Body Size, Inch	Stem Diameter, Inch (mm)	Kits	
		316 Stainless Steel	Hastelloy C
1/2, 3/4, 1, 1-1/2	1/2 (12.7)	RCEXPKRT012	RCEXPKRT052
2	3/4 (19.1)	RCEXPKRT022	RCEXPKRT062
3	1 (25.4)	RCEXPKRT032	RCEXPKRT072
4	1-1/4 (31.8)	RCEXPKRT042	RCEXPKRT082

Included Parts

Key	Description	Quantity	
14	Packing box bushing	1	1
200	Packing stud (qty 2 for 1/2 through 1-1/2 and 3-inch bodies; qty 3 for 2 and 4-inch bodies)		
201	Packing flange	1	1
212	Packing nut (qty 2 for 1/2 through 1-1/2 and 3-inch bodies; qty 3 for 2 and 4-inch bodies)		
214	Anti-extrusion washer	4	4
215	Packing set	2	2
216	Packing spacer	1	1
217	Spring pack assembly	1	1
---	Tag	1	1
---	Tie cable	1	1

DESIGN CP PACKING BOX PARTS (Non Live-Loaded Packing)

June 1997

Stems and packing box constructions not supplied by Fisher Controls and that do not meet Fisher Controls stem finish specifications, dimensional tolerances, and design specifications, may adversely alter the performance of this packing kit.

Body Size, Inch	Stem Diameter, Inch (mm)	Kits	
		Double PTFE One-Piece Bushing	Single Graphite One-Piece Bushing
1, 1-1/2, & 2	1/2 (12.7)	RCPXPACK012	RCPXPACK032
2	5/8 (15.9)	RCPXPACK222	RCPXPACK232
3	1 (25.4)	RCPXPACK112	RCPXPACK132
4	1-1/4 (31.8)	RCPXPACK122	RCPXPACK142

Included Parts

Key	Description	Quantity	
208	Bushing	2	1
209	Packing ring	---	2
210	Packing ring	---	2
215	Packing set	2	---
219	Bushing	---	1

Additional parts in the packing box area that may need replacing:

Packing Stud and Nut

Body Size, Inch	Stem Diameter, Inch (mm)	Part Number (Quantity) Stainless Steel	
		Stud	Nut
1, 1-1/2, & 2	1/2 (12.7)	1E944135072 (2)	1E944035252 (2)
2	5/8 (15.9)	1E944135072 (2)	1E944035252 (2)
3	1 (25.4)	16A1061X052 (2)	1A375335252 (2)
4	1-1/4 (31.8)	11B3814X022 (3)	1E944035252 (3)

Catalog 122

DESIGN CP PACKING BOX PARTS (ENVIRO-SEALR)

March 2002

Retrofit kits include parts to convert existing Design CP valves with standard bonnets to the ENVIRO-SEAL packing box construction.

Stems and packing box constructions not supplied by Fisher Controls and that do not meet Fisher Controls stem finish specifications, dimensional tolerances, and design specifications, may adversely alter the performance of this packing kit.

Body Size, Inch	Stem Diameter, Inch (mm)	Kits		
		Double PTFE One-Piece Bushing	Graphite ULF Graphite Bushing	Duplex Graphite Bushing
1	1/2 (12.7)	RCPXPKRT012	RCPXPKRT742	RCPXPKRT092
1-1/2	1/2 (12.7)	RCPXPKRT022	RCPXPKRT752	RCPXPKRT102
2	1/2 (12.7)	RCPXPKRT022	---	RCPXPKRT102
2	5/8 (15.9)	RCPXPKRT192	RCPXPKRT762	RCPXPKRT212
3	1 (25.4)	RCPXPKRT132	RCPXPKRT772	RCPXPKRT172
4	1-1/4 (31.8)	RCPXPKRT142	RCPXPKRT782	RCPXPKRT182

Included Parts

Key	Description	Quantity		
200	Packing stud (qty 2 for 1/2 thru 1-inch stem; qty 3 for 1-1/4 inch stem)	---	---	---
201	Packing flange	1	1	1
207	Bushing	---	1	3
208	Bushing	1	---	1
209	Packing ring	---	2	2
210	Packing ring	---	2	---
211	Packing box ring	---	1	1
212	Packing nut (qty 2 for 1/2 thru 1-inch stem; qty 3 for 1-1/4 inch stem)	---	---	---
214	Anti-extrusion washer	4	---	---
214	Packing washer	---	3	3
215	Packing set	2	---	1
216	Lantern ring [qty 1 for 1/2-inch stem; qty 3 for 3/4 & 1-inch stem (PTFE) & 1-1/4 inch (Duplex); qty 2 for 3/4-inch stem (Duplex); qty 4 for 1-1/4 inch stem]	---	---	---
216	Packing spacer (qty 1 for 1/2, 1, & 1-1/4 inch stem; qty 2 for 3/4-inch stem)	---	---	---
217	Spring pack assembly	1	1	1
---	Tag	1	1	1
---	Tie cable	1	1	1
219	Bushing	---	1	---

DESIGN D AND DA BODIES

July 1991

Body Size, Inch	Stem Size, Inch (mm)	Kits	
		Single PTFE Packing	Double PTFE Packing
1	3/8 (9.5)	RDX00000012	RDX0000CN12
2	1/2 (12.7)	RDX00000022	RDX0000CN22

Included Parts

Key	Description	Quantity	
3	Seat ring gasket	1	1
7	Bonnet gasket	1	1
8	Packing ring	3	6
9	Packing spring	1	---
11	Male packing washer	1	2
17	Packing washer	1	---
18	Female packing washer	1	2
19	Lantern ring (for double PTFE packing only: [qty 1 for 3/8-inch (9.5 mm) stem; qty 2 for 1/2-inch (12.7 mm) stem])	---	---
21	Upper packing wiper	1	1

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FISHER-ROSEMOUNT

DESIGN D AND DA BODY TRIM PACKAGE (S31600)

December 1991

Trim package includes equal percentage S31600 with R30006 tip valve plug. S20910 (Nitronic 50) stem. S31600/alloy 6 seat ring, steel gaskets, and single or double PTFE packing parts.

Body Size, Inch	Stem Diameter, Inch (mm)	Port Diameter, Inch (mm)	Kits	
			Single PTFE Packing	Double PTFE Packing
1	3/8 (9.5)	1/4 (6.4)	RDX00TRM112	RDXCNTRM112
		3/8 (9.5)	RDX00TRM122	RDXCNTRM122
		1/2 (12.7)	RDX00TRM132	RDXCNTRM132
		3/4 (19.1)	RDX00TRM142	RDXCNTRM142
2	1/2 (12.7)	1/4 (6.4)	RDX00TRM212	RDXCNTRM212
		3/8 (9.5)	RDX00TRM222	RDXCNTRM222
		1/2 (12.7)	RDX00TRM232	RDXCNTRM232
		3/4 (19.1)	RDX00TRM242	RDXCNTRM242
		1 (25.4)	RDX00TRM252	RDXCNTRM252
		1-1/4 (31.8)	RDX00TRM262	RDXCNTRM262

Included Parts

Key	Description	Quantity	
2	Seat ring	1	1
3	Seat ring gasket	1	1
4	Equal percentage plug/stem assembly	1	1
7	Bonnet gasket	1	1
8	Packing ring	3	6
9	Packing spring	1	---
11	Male packing washer	1	2
17	Packing washer	1	---
18	Female packing washer	1	2
19	Lantern ring (for double PTFE packing only: [qty 1 for 3/8-inch (9.5 mm) stem; qty 2 for 1/2-inch (12.7 mm) stem])	---	---
21	Upper packing wiper	1	1

DESIGN D AND DA TRIM PACKAGE (Ceramic)

December 1991

Trim package includes ceramic (VTC) seat ring and ceramic equal percentage valve plug with S17400 double 1150 stem. The Design D and DA gasket and packing kit may also be required when repairing or retrofitting. Order by appropriate part number.

Body Size, Inch	Stem Diameter, Inch (mm)	Port Diameter, Inch (mm)	Kits
1	3/8 (9.5)	1/4 (6.4)	RDXVTC00012
		3/8 (9.5)	RDXVTC00022
		1/2 (12.7)	RDXVTC00032
		3/4 (19.1)	RDXVTC00042
2	1/2 (12.7)	1/4 (6.4)	RDXVTC00052
		3/8 (9.5)	RDXVTC00062
		1/2 (12.7)	RDXVTC00072
		3/4 (19.1)	RDXVTC00082
		1 (25.4)	RDXVTC00092
		1-1/4 (31.8)	RDXVTC00102

Included Parts

Key	Description	Quantity
2	Seat ring	1
4	Equal percentage plug/stem assembly	1

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Design E Gaskets

Kits for full capacity trim with service temperature to 450_F (232_C) includes 316 stainless steel-inserted graphite flat sheet gaskets. 316 stainless steel shim and 316L stainless steel/composition spiral wound gasket. In kits for full capacity trim with service temperature to 1100_F (593_C), and kits for micro and restricted capacity trims, the spiral wound gasket is of Inconel/graphite construction.

Full Capacity Trim

Kits

Design and Body Size, Inch

E, ER, EZ	EA	EW	-100 to 450_F ⁽¹⁾ (-73 to 232_C) ⁽¹⁾	-325 to 1100_F (-198 to 593_C)
1/2 through 1-1/4	1	---	RGASKETX312	RGASKETX162
1-1/2	2	---	RGASKETX322	RGASKETX172
2	---	4 x 2	RGASKETX332	RGASKETX182
2-1/2	3	---	RGASKETX342	RGASKETX192
3	4	---	RGASKETX352	RGASKETX202
4	6	6 x 4, 8 x 4	RGASKETX362	RGASKETX212
6	---	---	RGASKETX372	RGASKETX222
---	---	8 x 6, 12 x 6	RGASKETX382	RGASKETX392
---	---	8 x 6, 12 x 6 (over 2-inch travel)	RGASKETX402	RGASKETX412
8	---	12 x 8	NA	RGASKETX232

Micro-Flow, Micro-Flute, and Micro-Form Trims⁽²⁾

EC and ES	EAC and EAS	-325 to 1100_F (-198 to 593_C)
1/2 through 1-1/4	1	RGASKETX162
1-1/2	2	RGASKETX172
2	---	RGASKETX182

Included Parts

Key	Description	Quantity
10	Bonnet gasket (qty 2 on 8 x 6 and 12 x 6 over 2-inch travel)	1
12	Spiral gasket (not required on 8-inch)	1
13	Seat ring gasket	1
51	Shim (not required on 8-inch) (Shim for EW bodies is Key 53)	1

1. -100 to 300_F (-73 to 149_C) for temperature cycling service.
2. For Design EZ, use parts kits for full capacity trim.

- Continued -

Design E Gaskets

DESIGN E GASKETS (Continued)

Restricted Capacity Trim⁽¹⁾

E and ER	EA	EW	-325 to 1100_F (-198 to 593_C)
1-1/2 x 1	2 x 1	---	RGASKETX242
2 x 1	---	---	RGASKETX252
2-1/2 x 1-1/2	3 x 1-1/2	---	RGASKETX262
3 x 2	4 x 2	---	RGASKETX272
4 x 2-1/2	6 x 2-1/2	6 x 2-1/2	RGASKETX282
6 x 4	---	---	RGASKETX222

Included Parts

Key	Description	Quantity
10	Bonnet gasket	1
11	Cage gasket (not required on 6 x 4-inch)	1
12	Spiral gasket	1
13	Seat ring gasket	1
14	Adaptor gasket (not required on 1-1/2 x 1 or 6 x 4-inch)	1
20	Adaptor gasket (1-1/2 x 1-inch only)	1
51	Shim	1

1. For Design EZ, use parts kits for full capacity trim.

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DESIGN EGR BODY

April 1999

Body Size, Inch

	Kits		
	Nitrile	O-Ring Material Fluoroelastomer	EPR
1	REGRX000012	REGRX0FKM12	REGRX0EPR12
2	R63EGX00022	R63EGXFKM22	R63EGXEPR22
3	R63EGX00032	R63EGXFKM32	R63EGXEPR32
4	R63EGX00042	R63EGXFKM42	R63EGXEPR42
6	R63EGX00062	R63EGXFKM62	R63EGXEPR62

Included Parts

Key	Description	Quantity		
4	Gasket	1	1	1
7	Stem O-ring (only with travel indicator)	1	1	1
12	Port seal	1	1	1
14	Piston ring (not required on Type 1190/1290)	1	1	1
15	Upper seal	1	1	1
17	Cage O-ring	1	1	1
20	Plug O-ring (not required on Type 1190/1290)	1	1	1
21	Flange O-ring	1	1	1

NOTE: For actuator repair kit see Type 1098 actuator. For pilot repair kit see 61, 98HM, 6350, 6360, or Y690 Series pilots

Quick-Change Trim Package Assembly

Includes body flange, cast iron linear cage, spring, valve plug, seat ring, travel indicator, and standard elastomers.

Maximum Differential Pressure Allowable with Main Valve Spring		60 psi (4.1 bar)	125 psi (8.6 bar)	400 psi (28 bar)
Minimum Differential Pressure Allowable with Main Valve Spring		---(1)	---(1)	---(1)
Main Valve Spring Color Code		Green	Blue	Red
Cast Iron Body Flange	1-inch body	25A3170X012	25A3170X032	25A3170X052
	2-inch body	25A3170X102	25A3170X082	25A3170X112
	3-inch body	25A3170X152	25A3170X142	25A3170X172
	4-inch body	25A3170X222	25A3170X192	25A3170X242
	6-inch body	25A3170X272	25A3170X282	25A3170X312
Steel Body Flange	1-inch body	25A3170X422	25A3170X432	25A3170X442
	2-inch body	25A3170X452	25A3170X382	25A3170X332
	3-inch body	25A3170X372	25A3170X462	25A3170X472
	4-inch body	25A3170X482	25A3170X492	25A3170X502
	6-inch body	25A3170X512	25A3170X342	25A3170X522
	8 x 6-inch body	25A3170X532	25A3170X542	25A3170X552
1. See Bulletin 71.2:1098-EGR.				

EZR REGULATOR

February 2001

Body Size,Inch	Kits	
	Construction/Diaphragm Material	
	Diaphragm/O-ring	Diaphragm Cartridge/O-ring
	17E67	17E67
2	REZRX000S22	REZRX00CS22
3	REZRX000S32	REZRX00CS32
4	REZRX000S42	REZRX00CS42
	17E97	17E97
6, 8 x 6, 12 x 6	REZRX000S62	REZRX00CS62

Included Parts		Quantity	
Key	Description		
6	O-ring	1	1
8	Cage O-ring (not req'd on 8 x 6)	1	1
9	Diaphragm	1	---
10	O-ring	1	---
13	Flanged locknut	1	---
14	Cage retainer O-ring	1	---
16	Backup ring(Motion indicator only)	2	2
18	O-ring(Motion indicator only)	1	1
28	O-ring	1	1
66	O-ring (8 x 6 only)	1	1
67	O-ring (8 x 6 only)	1	1
70	O-ring	1	---
121	O-ring (6, 8 x 6, 12 x 6 only)	1	1
---	Diaphragm cartridge assembly	---	1

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FISHER-ROSEMOUNT™

DESIGN GL BODY (Non Live-Loaded Packing)

October 1991

Body Size, Inch (mm)

- 1/2, 1 (15, 25)
- 1-1/2 (40)
- 2 (50)
- 3 (80)
- 4 (100)

Kits

- RGLX0000012
- RGLX0000022
- RGLX0000032
- RGLX0000042
- RGLX0000052

Included Parts

Key	Description	Quantity
6	Packing box bushing	2
10	Lantern ring (none required for 1/2, 1, 1-1/2; 2 required for 2 and 4-inch; 1 required for 3-inch)	
11	Packing spring	1
12	Packing set	1
13	Packing washer	1
16	Bonnet gasket	1

Additional parts in the packing box area that may need replacing.

Packing Stud and Nut (2 each required)

Body Size, Inch (mm)

Part Number and Material

	Steel		316 Stainless Steel	
	Stud	Nut	Stud	Nut
1/2 through 4 (15 through 100)	19A3299X032	19A4788X042	19A3299X042	19A4788X052

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FISHER-ROSEMOUNT

DESIGN GL PACKING BOX PARTS (ENVIRO-SEAL®) (Retrofit)

June 1994

Retrofit kits include parts to convert existing Design GL valves with standard bonnets to the Enviro-Seal packing box construction. 316 stainless steel retrofit kits include stainless steel bolting, 316L/PTFE one-piece bushing, S31600 lantern ring, and 316 stainless steel/Inconel spring pack assembly. Hastelloy C retrofit kits include Hastelloy C bolting, Hastelloy C/PTFE/glass three piece bushing, Hastelloy C lantern ring, and Hastelloy C/Inconel spring pack assembly.

Kit selection is also based on the type of actuator mounted on the existing Design GL valve.

Stems and packing box constructions that do not meet Fisher Controls stem finish specification, dimensional tolerances, and design specification, may adversely alter the performance of this packing kit.

Kits for Design GL used with Type 1250 actuators (size 225, 450, or 675):

Body Size, Inch (mm)	Stem Diameter, Inch (mm)	Kit and Packing Materials			
		Double PTFE Packing		Graphite Packing	
		316 Stainless Steel	Hastelloy C	316 Stainless Steel	Hastelloy C
1/2, 1, 1-1/2 (15, 25, 40)	.472 (12)	RGLXPKRT012	RGLXPKRT072	RGLXPKRT132	NA
2 (50)	.472 (12)	RGLXPKRT022	RGLXPKRT082	RGLXPKRT142	NA
3 (80)	.709 (18)	RGLXPKRT032	RGLXPKRT092	RGLXPKRT152	NA
4 (100)	.709 (18)	RGLXPKRT042	RGLXPKRT102	RGLXPKRT162	NA

The following kits are NOT applicable to GL's sold in North America.

Kits for Design GL used with all actuators EXCEPT Type 1250 (size 225, 450, or 675):

Body Size, Inch (mm)	Stem Diameter, Inch (mm)	Kit and Packing Materials			
		Double PTFE Packing		Graphite Packing	
		316 Stainless Steel	Hastelloy C	316 Stainless Steel	Hastelloy C
1/2, 1, 1-1/2 (15, 25, 40)	.472 (12)	RGLXPKRT022	RGLXPKRT082	RGLXPKRT142	NA
2 (50)	.472 (12)	RGLXPKRT052	RGLXPKRT112	RGLXPKRT172	NA
3 (80)	.709 (18)	RGLXPKRT042	RGLXPKRT102	RGLXPKRT162	NA
4 (100)	.709 (18)	RGLXPKRT062 ⁽¹⁾	RGLXPKRT122 ⁽¹⁾	RGLXPKRT182 ⁽¹⁾	NA

Included Parts

Key	Description	Quantity		
6	Packing box bushing	1	1	---
200	Packing stud	2	2	2
201	Packing flange	1	1	1
207	Bushing	---	---	2
208	Bushing	---	---	1
209	Packing ring	---	---	2
210	Pacing ring	---	---	2
211	Packing box ring	---	---	1
212	Packing nut	2	2	2
214	Anti-extrusion washer	4	4	---
214	Packing washer	---	---	5
215	Packing set	2	2	---
216	Lantern ring ⁽¹⁾	1	1	1
217	Spring pack assembly	1	1	1
---	Tag	1	1	1
---	Cable tie	1	1	1

1. Quantity of 2 lantern rings on 4-inch body.

DESIGN GL PACKING BOX PARTS (ENVIRO-SEAL®) (Repair)

December 1992

Stem and packing box constructions that do not meet Fisher Controls stem finish specifications, dimensional tolerances, and design specifications, may adversely alter the performance of this packing kit.

Body Size, Inch (mm)	Stem Diameter, Inch (mm)	Kits	
		Double PTFE Packing	Graphite Packing
1/2 through 2 (15 through 50)	.472 (12)	RGLXPACK012	RGLXPACK032
3, 4 (80, 100)	.709 (18)	RGLXPACK022	RGLXPACK042

Included Parts

Key	Description	Quantity	
207	Bushing	---	2
208	Bushing	---	1
209	Packing ring	---	2
210	Packing ring	---	2
214	Anti-extrusion washer	4	---
214	Packing washer	---	5
215	Packing set	2	---

Additional parts in the packing box area that may need replacing:

Packing Stud and Nut (2 each required)

Body Size, Inch (mm)	Part Number
1/2 through 4 (15 through 100)	
Stud	13B6563X012
Nut	19A4788X012

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FISHER-ROSEMOUNT™

GS

Catalog 122—Parts Kits

DESIGN GS BODY

October 1991

Stem Size, Inch (mm)

5/16 (7.9)

3/8 (9.5)

Kits

RGSX0000012

RGSX0000022

Included Parts

Key	Description	Quantity
5	Packing set	1
7	Packing spring	1
8	Packing washer	2
10	Upper wiper	1

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FISHER ROSEMOUNT™

Packing Box Parts (Retrofit) High Performance Butterfly Valves

Catalog 122—Parts Kits

PACKING BOX PARTS (ENVIRO-SEAL®)

September 1996

Retrofit kits include parts to convert existing Type A31, A31A, A31D, B21A, 8522, and 8532 valves to the ENVIRO-SEAL packing box construction. Retrofit kits include single PTFE or graphite packing.

Selection Notes

A31, A31A, A31D To provide adequate clearance for the increased height of the new packing, a new coupler may be required. Consult the following table for valve/actuator packings that require a new coupler and order by appropriate part number.

Worn shafts or packing box bores and shafts or components not manufactured by Fisher to Fisher finish specifications, dimensional tolerances, and design specifications, will adversely alter the performance of this packing kit.

Type A31, A31A, A31D, and 8532

Body Size, Inch	Body Class	Shaft Diameter ⁽¹⁾ Inch, (mm)	Kits	
			Single PTFE Packing	Graphite Packing
3	150/300	9/16 (14.3)	RRTYXRT0202	RRTYXRT0502
4	150/300	11/16 (17.5)	RRTYXRT0212	RRTYXRT0512
6	150/300	15/16 (23.8)	RRTYXRT0222	RRTYXRT0522
8	150	15/16 (23.8)	RRTYXRT0232	RRTYXRT0532
8	300	1-1/4 (31.8)	RRTYXRT0242	RRTYXRT0542
10	150	1-1/8 (28.5)	RRTYXRT0252	RRTYXRT0552
10	300	1-5/8 (41.3)	RRTYXRT0572	Not Available
12	150	1-1/4 (31.8)	RRTYXRT0262	RRTYXRT0562
12	300	1-7/8 (47.6)	RRTYXRT0582	Not Available
14	150	1-3/8 (34.9)	RRTYXRT0592	Not Available
14	300	2 (50.8)	RRTYXRT0602	Not Available
16	150	1-1/2 (38.1)	RRTYXRT0612	Not Available
16	300	2-1/4 (57.2)	RRTYXRT0622	Not Available
18	150	1-3/4 (44.5)	RRTYXRT0632	Not Available
18	300	2-1/2 (63.5)	RRTYXRT0642	Not Available
20	150	2 (50.8)	RRTYXRT0652	Not Available
24	150	2-1/2 (63.5)	RRTYXRT0662	Not Available

Type B21A and 8522

Body Size, Inch	Body Class	Shaft Diameter ⁽¹⁾ Inch, (mm)	Kits	
			Single PTFE Packing	Graphite Packing
3	150		RRTYXRT0142	RRTYXRT0442
4	150	1/2 (12.7)	RRTYXRT0152	RRTYXRT0452
5	150	5/8 (15.9)	RRTYXRT0162	RRTYXRT0462
8	150	7/8 (22.2)	RRTYXRT0172	RRTYXRT0472
10	150	1-1/8 (28.5)	RRTYXRT0182	RRTYXRT0482
12	150	1-1/2 (38.1)	RRTYXRT0192	RRTYXRT0492

1. Diameter through the packing box.

Included Parts

Key	Description	Quantity	
10	Anti-blowout follower (not required on A31)	1	1
16	Anti-blowout ring (3 through 12-inch only; not required on A31)	1	1
17	Jam nut (not required on A31)	2	2
100	Packing stud	2	2
101	Packing nut	2	2
102	Packing flange	1	1
103	Spring pack assembly	1	1
105	Packing set	1	1
106	Anti-extrusion washer	2	---
107	Packing box ring (qty 1 for 18-inch Class 300, 20 and 24-inch Class 150)	2	2
111	Tag	1	1
112	Cable	1	1

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Packing Box Parts (Retrofit) High Performance Butterfly Valves

PACKING BOX PARTS (ENVIRO-SEAL®) (Continued)

June 1992

New couplers are required for the following valve/actuator combinations when retrofitting to ENVIRO-SEAL packing on Type A31 or A31A. Order by appropriate part number.

Shaft Diameter, Inch (mm)	Valve Size, Inch	Actuator Type	New Coupler Part Number
9/16 (14.3)	3 Class 150/300 3 Class 150/300 3 Class 150/300	Fisher Type 1032 XL70 through XL280 Fisher Type 1032 XL425 through XL680 Elomatic SR15 (D and S Series)	13B1596X012 13B1907X012 13B1595X012
11/15 (17.5)	4 Class 150/300 4 Class 150/300 4 Class 150/300 4 Class 150/300	Fisher Type 1032 XL185 through XL280 Fisher Type 1032 XL425 through XL680 Bettis HD 521, 721, 722 Elomatic S20	13B1600X012 13B1908X012 13B1597X012 13B1599X012
15/16 (23.8)	6 Class 150/300, 8 Class 150 6 Class 150/300, 8 Class 150 6 Class 150/300, 8 Class 150 6 Class 150/300, 8 Class 150 6 Class 150/300, 8 Class 150 6 Class 150/300, 8 Class 150 6 Class 150/300, 8 Class 150 6 Class 150/300, 8 Class 150 6 Class 150/300, 8 Class 150 6 Class 150/300, 8 Class 150 6 Class 150/300, 8 Class 150 6 Class 150/300, 8 Class 150 6 Class 150/300, 8 Class 150 6 Class 150/300, 8 Class 150 6 Class 150/300, 8 Class 150	Fisher Type 1031 Size 26 Fisher Type 1031 Size 33 Fisher Type 1032 XL680-XL1370 5M Gear Bettis CB 315 Bettis CB 415 Bettis CB 420 Bettis CB 520 Bettis CB 525 Bettis CB 725 Bettis HD 251.5 Bettis HD 521, 721, 722 Fire Sentry Limitorque T-100	13B1610X012 13B1611X012 13B1613X012 13B1601X012 13B1602X012 13B1905X012 13B1605X012 13B1906X012 13B1604X012 13B1606X012 13B1609X012 13B1603X012 13B1608X012 13B1607X012
1-1/8 (28.5)	10 Class 150 10 Class 150 10 Class 150 10 Class 150 10 Class 150 10 Class 150 10 Class 150 10 Class 150	Fisher Type 1031 Size 26 Fisher Type 1031 Size 33 Fisher Type 1032 XL680-XL1370 Bettis CB 525 Bettis CB 725 Bettis HD 521, 721, 722 Fire Sentry Limitorque T-100	13B1620X012 13B1621X012 13B1624X012 13B1614X012 13B1617X012 13B1615X012 13B1619X012 13B1618X012
1-1/4 (31.8)	8 Class 300, 12 Class 150 8 Class 300, 12 Class 150 8 Class 300, 12 Class 150 8 Class 300, 12 Class 150 8 Class 300, 12 Class 150 8 Class 300, 12 Class 150 8 Class 300, 12 Class 150 8 Class 300, 12 Class 150 8 Class 300, 12 Class 150 8 Class 300, 12 Class 150 8 Class 300, 12 Class 150 8 Class 300, 12 Class 150	Fisher Type 1031 Size 26 Fisher Type 1031 Size 33 Fisher Type 1032 XL680-XL1370 Bettis CB 525 Bettis CB 725 Bettis HD 521, 721, 722 Bettis HD 731, 732 Elomatic SR110 Limitorque SMB-000-5-HOBC Limitorque T-250 Rotork 250	13B1081X012 13B1082X012 13B1086X012 13B1073X012 13B1077X012 13B1074X012 13B1075X012 13B1076X012 13B1084X012 13B1246X012 13B1079X012

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FISHER-ROSEMOUNT™

Packing Box Parts (Repair) High Performance Butterfly Valves

Catalog 122—Parts Kits

PACKING BOX PARTS (ENVIRO-SEAL®) (Repair)

September 1996

Repair kits for Design A31, A31A, A31D, B21A, 8522, and 8532. Repair kits include single PTFE packing set and anti-extrusion washers, or graphite packing with anti-extrusion washers.

Worn shafts or packing box bores and shafts or components not manufactured by Fisher Controls to meet Fisher Controls finish specifications, dimensional tolerances, and design specifications, may adversely alter the performance of this packing kit.

Type A31, A31A, A31D, and 8532

Body Size, Inch	Body Class	Shaft Diameter ⁽¹⁾ Inch, (mm)	Kits	
			Single PTFE Packing	Graphite Packing
3	150/300	9/16 (14.3)	RRTYX000112	13B8816X022
4	150/300	11/16 (17.5)	RRTYX000122	13B8816X042
6	150/300	15/16 (23.8)	RRTYX000132	13B8816X082
8	150	15/16 (23.8)	RRTYX000132	13B8816X082
8	300	1-1/4 (31.8)	RRTYX000142	13B8816X122
10	150	1-1/8 (28.5)	RRTYX000092	13B8816X102
10	300	1-5/8 (41.3)	RRTYX000152	Not Available
12	150	1-1/4 (31.8)	RRTYX000142	13B8816X122
12	300	1-7/8 (47.6)	RRTYX000162	Not Available
14	150	1-3/8 (34.9)	RRTYX000172	Not Available
14	300	2 (50.8)	RRTYX000182	Not Available
16	150	1-1/2 (38.1)	RRTYX000192	Not Available
16	300	2-1/4 (57.2)	RRTYX000202	Not Available
18	150	1-3/4 (44.5)	RRTYX000212	Not Available
18	300	2-1/2 (63.5)	RRTYX000222	Not Available
20	150	2 (50.8)	RRTYX000182	Not Available
24	150	2-1/2 (63.5)	RRTYX000222	Not Available

Type B21A and 8522

Body Size, Inch	Body Class	Shaft Diameter ⁽¹⁾ Inch, (mm)	Kits	
			Single PTFE Packing	Graphite Packing
3	150		RRTYX000012	13B8816X012
4	150	1/2 (12.7)	RRTYX000022	13B8816X032
5	150	5/8 (15.9)	RRTYX000082	13B8816X072
8	150	7/8 (22.2)	RRTYX000092	13B8816X102
10	150	1-1/8 (28.5)	RRTYX000102	13B8816X132
12	150	1-1/2 (38.1)	RRTYX000072	13B8816X142

Included Parts

Key	Description	Quantity	
105	Packing set	1	1
106	Anti-extrusion washer	2	... (2)

1. Diameter through the packing box.
2. Included in packing set, key 105.

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FISHER-ROSEMOUNT™

PACKING BOX PARTS (Non Live-Loaded)

February 1994

Repair kits for Design A, CAV4, DBQ, E, EH, HP, HS, SC, YD and YS bodies. Kits do not apply to special alloy constructions. Stems and packing box constructions not supplied by Fisher Controls and that do not meet Fisher Controls stem finish specifications, dimensional tolerances, and design specifications, may adversely alter the performance of this packing kit.

Stem Diameter, Inch (mm)	Kits		
	3/8 (9.5)	1/2 (12.7)	3/4 (19.1)
Yoke Boss Diameter, Inch (mm)	2-1/8 (54)	2-13/16 (71)	3-9/16 (90)
Packing			
PTFE	RPACKX00012	RPACKX00022	RPACKX00032
Double PTFE	RPACKX00042	RPACKX00052	RPACKX00062
PTFE/composition	RPACKX00072	RPACKX00082	RPACKX00092
Single graphite ribbon/filament			
Complete packing box repair	RPACKX00102	RPACKX00112	RPACKX00122
Packing ring only repair	RPACKX00132	RPACKX00142	RPACKX00152
Double graphite ribbon/filament	RPACKX00162	RPACKX00172	RPACKX00182

Included Parts

Key	Descriptions	Quantity		
<i>PTFE</i>				
6	Packing set	1	1	1
8	Packing spring	1	1	1
10	Packing washer	1	1	1
11	Packing box ring	1	1	1
12	Upper wiper	1	1	1
<i>Double PTFE1</i>				
6	Packing set	2	2	2
8	Lantern ring	1	2	1
11	Packing box ring	1	1	1
12	Upper wiper	1	1	1
<i>PTFE/Composition</i>				
7	Packing ring	7	10	8
8	Lantern ring	1	1	1
11	Packing box ring	1	1	1
12	Upper wiper	1	1	1
<i>Single Graphite Ribbon/Filament</i>				
<i>Complete Packing Box Repair</i>				
7	Packing ring (ribbon)	2	2	2
7	Packing ring (filament)	2	2	3
8	Lantern ring	2	3	2
11	Packing box ring	1	1	1
<i>Packing Ring Only Repair</i>				
7	Packing ring (ribbon)	2	2	2
7	Packing ring (filament)	2	2	3
<i>Double Graphite Ribbon/Filament</i>				
7	Packing ring (ribbon)	3	3	3
7	Packing ring (filament)	4	4	5
8	Lantern ring	1	2	1
11	Packing box ring	1	1	1

PACKING BOX PARTS (Non Live-Loaded)

February 1994

Repair kits for Design A, CAV4, DBQ, E, EH, HP, HS, SC, YD and YS bodies. Kits do not apply to special alloy constructions. Stems and packing box constructions not supplied by Fisher Controls and that do not meet Fisher Controls stem finish specifications, dimensional tolerances, and design specifications, may adversely alter the performance of this packing kit.

	Kits		
Stem Diameter, Inch (mm)	3/8 (9.5)	1/2 (12.7)	3/4 (19.1)
Yoke Boss Diameter, Inch (mm)	2-1/8 (54)	2-13/16 (71)	3-9/16 (90)
Packing			
PTFE	RPACKX00012	RPACKX00022	RPACKX00032
Double PTFE	RPACKX00042	RPACKX00052	RPACKX00062
PTFE/composition	RPACKX00072	RPACKX00082	RPACKX00092
Single graphite ribbon/filament			
Complete packing box repair	RPACKX00102	RPACKX00112	RPACKX00122
Packing ring only repair	RPACKX00132	RPACKX00142	RPACKX00152
Double graphite ribbon/filament	RPACKX00162	RPACKX00172	RPACKX00182

Included Parts

Key	Descriptions	Quantity		
<i>PTFE</i>				
6	Packing set	1	1	1
8	Packing spring	1	1	1
10	Packing washer	1	1	1
11	Packing box ring	1	1	1
12	Upper wiper	1	1	1
<i>Double PTFE1</i>				
6	Packing set	2	2	2
8	Lantern ring	1	2	1
11	Packing box ring	1	1	1
12	Upper wiper	1	1	1
<i>PTFE/Composition</i>				
7	Packing ring	7	10	8
8	Lantern ring	1	1	1
11	Packing box ring	1	1	1
12	Upper wiper	1	1	1
<i>Single Graphite Ribbon/Filament</i>				
<i>Complete Packing Box Repair</i>				
7	Packing ring (ribbon)	2	2	2
7	Packing ring (filament)	2	2	3
8	Lantern ring	2	3	2
11	Packing box ring	1	1	1
<i>Packing Ring Only Repair</i>				
7	Packing ring (ribbon)	2	2	2
7	Packing ring (filament)	2	2	3
<i>Double Graphite Ribbon/Filament</i>				
7	Packing ring (ribbon)	3	3	3
7	Packing ring (filament)	4	4	5
8	Lantern ring	1	2	1
11	Packing box ring	1	1	1

Packing Box Parts (Repair)

PACKING BOX PARTS (ENVIRO-SEAL®)

March 2002

Repair kits for Design A, CAV4, DBQ, E, EH, HP, HS, YD and YS bodies.

Stems and packing box constructions not supplied by Fisher Controls and that do not meet Fisher Controls stem finish specifications, dimensional tolerances, and design specifications, may adversely alter the performance of this packing kit.

Stem Diameter, Inch (mm)	Yoke Boss Diameter, Inch (mm)	Kits		
		Double PTFE	Graphite ULF	Duplex
3/8 (9.5)	2-1/8 (54)	RPACKX00192	RPACKX00592	RPACKX00292
1/2 (12.7)	2-13/16 (71)	RPACKX00202	RPACKX00602	RPACKX00302
3/4 (19.1)	3-9/16 (90)	RPACKX00212	RPACKX00612	RPACKX00312
1 (25.4)	5 (127)	RPACKX00222	RPACKX00622	RPACKX00322
1-1/4 (31.8)	5, 5H (127)	RPACKX00232	RPACKX00632	RPACKX00332

Included Parts

Key	Description	Quantity
207	Bushing	1
208	Bushing	1
209	Packing ring	2
210	Packing ring	2
214	Anti-extrusion washer	4
214	Packing washer	3
215	Packing set	2
218	Lower wiper	1

Additional parts in the packing box area that may need replacing:

Packing Stud and Nut (2 each required)

Stem Diameter Inch, (mm)	Yoke Boss Diameter, Inch (mm)	Part Number and Material			
		Steel		316 Stainless Steel	
		Stud	Nut	Stud	Nut
3/8 (9.5)	2-1/8 (54)	1E944131032	1E944024112	1E944135222	1E944035252
1/2 (12.7)	2-13/16 (71)	1E944431032	1E944524112	1E944435222	1E944535252
3/4 (19.1)	3-9/16 (90)	1E944931032	1E944624112	1E944935222	1E944635252
1 (25.4)	5 (127)	0V002531032	1A343324112	0V002535222	1A343335252
1-1/4 (31.8)	5, 5H (127)	0W086931032	1A368124112	0W086935222	1A368135252

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PACKING BOX PARTS (ENVIRO-SEAL[®])

Retrofit kits include parts to convert existing Design A, CAV4, DBQ, E, EH, HP, HS, SC, YD and YS valves to the ENVIRO-SEAL packing box construction. For selection guidelines, see Bulletin 59.1:062.

Non-OEM supplied stems and packing box constructions that do not meet Fisher Controls stem finish specifications, dimensional tolerances, and design specifications, may adversely alter the performance of this packing kit.

Stem Dia, Inch (mm)	Yoke Boss Dia, Inch (mm)	Kits		
		Packing Material		
		316 Stainless Steel	316 Stainless Steel	316 Stainless Steel
		Double PTFE	Graphite ULF	Duplex
3/8 (9.5)	2-1/8 (54)	RPACKXRT012	RPACKXRT262	RPACKXRT212
1/2 (12.7)	2-13/16 (71)	RPACKXRT022	RPACKXRT272	RPACKXRT222
3/4 (19.1)	3-9/16 (90)	RPACKXRT032	RPACKXRT282	RPACKXRT232
1 (25.4)	5 (127)	RPACKXRT042	RPACKXRT292	RPACKXRT242
1-1/4 (31.8)	5, 5H (127)	RPACKXRT052	RPACKXRT302	RPACKXRT252
		Monel	Monel	Monel
		Double PTFE	Single Graphite	Duplex
3/8 (9.5)	2-1/8 (54)	RPACKXRT112	---	---
1/2 (12.7)	2-13/16 (71)	RPACKXRT122	---	---
3/4 (19.1)	3-9/16 (90)	RPACKXRT132	---	---
1 (25.4)	5 (127)	---	---	---
1-1/4 (31.8)	5, 5H (127)	---	---	---

Included Parts

Key	Description	Quantity		
200	Packing stud	2	2	2
201	Packing flange	1	1	1
207	Bushing	---	1	4
208	Bushing	---	1	---
209	Packing ring	---	2	2
210	Packing ring	---	2	---
211	Packing box ring	1	1	1
212	Packing nut	2	2	2
214	Anti-extrusion washer	4	---	---
214	Packing washer	---	3	3
215	Packing set	2	---	1
216	Lantern ring (qty 1 for 3/8 and 1/2-inch stem; qty of 2 for 3/4 through 1-1/4 inch stem)		---	1
217	Spring pack assembly	1	1	1
218	Lower wiper	1	---	---
---	Tag	1	1	1
---	Tie cable	1	1	1

Packing Box Parts (Retrofit) Sliding Stem

February 1995

PACKING BOX PARTS (HIGH-SEAL †)

Retrofit kits include parts to convert existing Design A, CAV4, DBQ, E, EH, HP, HS, YD and YS valves to the HIGH-SEAL packing box construction. Spring material is S17700 (17-7 stainless steel). For selection guidelines, see Bulletin 59.1:062.

Non-OEM supplied stem and packing box constructions that do not meet Fisher Controls stem finishes specifications, dimensional tolerances and design specifications, may adversely alter the performance of this packing kit.

Stem Diameter, Inch (mm)	Yoke Boss Diameter, Inch (mm)	Kits	
3/8 (9.5)	2-1/8 (54)	11B2179X052	---
1/2 (12.7)	2-13/16 (71)	11B2182X052	---
3/4 (19.1)	3-9/16 (90)	11B2184X052	---
1 (25.4)	5 (127)	11B2187X052	---
1-1/4 (31.8)	5, 5H (127)	11B2189X052	---
2 (50.8)	7 (177.8)	---	12B5870X052

Included Parts

Key	Description	Quantity	
200	Packing stud	2	3
201	Packing flange	1	1
202	Belleville spring	2	2
203	packing follower	1	1
204	Screw	4	6
205	Load scale	2	3
206	Indicator disk	1	1
207	Bushing	2	2
208	Bushing	1	1
209	Packing ring	3	3
210	Packing ring	2	2
211	Packing box ring	1	1
212	Packing nut	2	3
214	Packing washer	5	---
219	Washer (not required on 3/8-inch stem)	2	3

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Packing Box Parts (Retrofit) Sliding Stem

PACKING BOX PARTS (HIGH-SEAL™)

February 1995

Retrofit kits include parts to convert existing Design A, CAV4, DBQ, E, EH, HP, HS, YD and YS valves to the HIGH-SEAL packing box construction. Spring material is S17700 (17-7 stainless steel). For selection guidelines, see Bulletin 59.1:062.

Non-OEM supplied stem and packing box constructions that do not meet Fisher Controls stem finishes specifications, dimensional tolerances and design specifications, may adversely alter the performance of this packing kit.

Stem Diameter, Inch (mm)	Yoke Boss Diameter, Inch (mm)	Kits	
3/8 (9.5)	2-1/8 (54)	11B2179X052	---
1/2 (12.7)	2-13/16 (71)	11B2182X052	---
3/4 (19.1)	3-9/16 (90)	11B2184X052	---
1 (25.4)	5 (127)	11B2187X052	---
1-1/4 (31.8)	5, 5H (127)	11B2189X052	---
2 (50.8)	7 (177.8)	---	12B5870X052

Included Parts

Key	Description	Quantity	
200	Packing stud	2	3
201	Packing flange	1	1
202	Belleville spring	2	2
203	packing follower	1	1
204	Screw	4	6
205	Load scale	2	3
206	Indicator disk	1	1
207	Bushing	2	2
208	Bushing	1	1
209	Packing ring	3	3
210	Packing ring	2	2
211	Packing box ring	1	1
212	Packing nut	2	3
214	Packing washer	5	---
219	Washer (not required on 3/8-inch stem)	2	3

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FISHER ROSEMOUNT™

Packing Box Parts (Retrofit) V-Line and edisc

Catalog 122—Parts Kits

PACKING BOX PARTS (ENVIRO-SEAL®)

September 1996

Retrofit kits include parts to convert existing Design CV500, V100, V150, V200, V260, V300, V500, 8510, 8510B, 8510U, 8550, and 8560 valves with shallow (single packing depth) packing box to the ENVIRO-SEAL packing box construction. Retrofit kits include single PTFE or graphite packing.

Selection Notes

- 8510 & 8510B These designs have two packing boxes, one at the actuator end and one at the outboard end. Select a kit from each column of the following table.
- CV500, V100, V500 Packing boxes in these valve bodies may be deep drilled, (at one time standard on V100 and always available as an option). If the body being retrofitted has a deep packing box, additional parts are required. Consult your instruction manual.
- CV500 & V500 1-1/2, 3, 6, and 12-inch body sizes offer two optional shaft spline diameters in order entry literature. The shaft diameter through the packing needed to select packing parts is always the larger of the two spline diameters listed.

Worn shafts or packing box bores and shafts or components not manufactured by Fisher to Fisher finish specifications, dimensional tolerances, and design specifications, will adversely alter the performance of this packing kit.

Retrofit Kits Packing Box End

Shaft Diameter Inches, (mm)	Single PTFE Packing		Graphite Packing	
	Actuator End	Outboard End ⁽¹⁾	Actuator End	Outboard End ⁽¹⁾
1/2 (12.7)	RRTYXRT0012	RRTYXRT0082	RRTYXRT0312	RRTYXRT0382
5/8 (15.9)	RRTYXRT0022	RRTYXRT0092	RRTYXRT0322	RRTYXRT0392
3/4 (19.1)	RRTYXRT0032	RRTYXRT0102	RRTYXRT0332	RRTYXRT0402
7/8 (22.2)	RRTYXRT0042	---	RRTYXRT0342	---
1 (25.4)	RRTYXRT0052	RRTYXRT0112	RRTYXRT0352	RRTYXRT0412
1-1/4 (31.8)	RRTYXRT0062	RRTYXRT0122	RRTYXRT0362	RRTYXRT0422
1-1/2 (38.1)	RRTYXRT0072	RRTYXRT0132	RRTYXRT0372	RRTYXRT0432
1-1/2 (38.1) 10-inch 300# Type 8560	RRTYXRT0672	---	RRTYXRT0812	---
1-1/2 (38.1) 12-inch 150# Type 8560	RRTYXRT0672	---	RRTYXRT0812	---
1-3/4 (44.5)	RRTYXRT0682	RRTYXRT0762	RRTYXRT0822	RRTYXRT0902
1-3/4 (44.5) 12-inch 300# Type 8560	RRTYXRT0692	---	RRTYXRT0832	---
1-3/4 (44.5) Design V260, V500	RRTYXRT0702	---	RRTYXRT0842	---
2 (50.8)	RRTYXRT0712	RRTYXRT0772	RRTYXRT0852	RRTYXRT0912
2-1/8 (54.0)	RRTYXRT0722	---	RRTYXRT0862	---
2-1/2 (63.5)	RRTYXRT0732	RRTYXRT0782	RRTYXRT0872	RRTYXRT0922
3 (76.2)	RRTYXRT0742	RRTYXRT0792	RRTYXRT0882	RRTYXRT0932
3-1/2 (88.9)	RRTYXRT0752	RRTYXRT0802	RRTYXRT0892	RRTYXRT0942

1. Only required on Design 8510 or 8510B.

Included Parts

Key	Description	Quantity			
100	Packing stud	2	2	2	2
101	Packing nut	2	2	2	2
102	Packing flange	1	1	1	1
103	Spring pack assembly	1	---	1	---
104	Spring pack assembly	---	1	---	1
105	Packing set	1	1	1	1
106	Anti-extrusion washer	2	2	---	---
107	Packing box ring ⁽¹⁾⁽²⁾	1	1	1	1
111	Tag	1	1	1	1
112	Tie cable	1	1	1	1

1. Quantity of 2 on 10 & 12-inch Class 300 Type 8560, 12-inch Class 150 Type 8560, and 3 or 3-1/2 inch shaft.

2. Not required on Design V150, V200, or V300 with 1-1/4 or 1-1/2 inch shafts.

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Packing Box Parts (Repair) V-Line and edisc

PACKING BOX PARTS (ENVIRO-SEAL®)

September 1996

Retrofit kits include parts to convert existing Design CV500, V100, V150, V200, V260, V300, V500, 8510, 8510B, 8510U, 8550, and 8560 valves with shallow (single packing depth) packing box to the ENVIRO-SEAL packing box construction. Retrofit kits include single PTFE or graphite packing.

Selection Notes

8510 & 8510B	These designs have two packing boxes, one at the actuator end and one at the outboard end. Select a kit from each column of the following table.
CV500, V100, V500	Packing boxes in these valve bodies may be deep drilled, (at one time standard on V100 and always available as an option). If the body being retrofitted has a deep packing box, additional parts are required. Consult your instruction manual.
CV500 & V500	1-1/2, 3, 6, and 12-inch body sizes offer two optional shaft spline diameters in order entry literature. The shaft diameter through the packing needed to select packing parts is always the larger of the two spline diameters listed.

Worn shafts or packing box bores and shafts or components not manufactured by Fisher to Fisher finish specifications, dimensional tolerances, and design specifications, will adversely alter the performance of this packing kit.

Shaft Diameter, Inch (mm)

Kits

	Single PTFE Packing	Graphite Packing
1/2 (12.7)	RRTYX000012	13B8816X012
5/8 (15.9)	RRTYX000022	13B8816X032
3/4 (19.1)	RRTYX000032	13B8816X052
7.8 (22.2)	RRTYX000042	13B8816X062
1 (25.4)	RRTYX000052	13B8816X092
1-1/4 (31.8)	RRTYX000062	13B8816X112
1-1/2 (38.1)	RRTYX000072	13B8816X142
1-3/4 (44.5)	RRTYX000232	13B8816X152
2 (50.8)	RRTYX000242	13B8816X172
2-1/8 (54.0)	RRTYX000252	13B8816X182
2-1/2 (63.5)	RRTYX000262	13B8816X162
3 (76.2)	RRTYX000272	14B3541X062
3-1/2 (88.9)	RRTYX000282	14B3541X072

Included Parts

Key	Description	Quantity
105	Packing set	1
106	Anti-extrusion washer	1 (1)

1. Included in packing set, key 105.

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FISHER-ROSEMOUNT™

TYPE S100 AND S102 REGULATORS

July 1983

Seat ring is not included and must be specified separately by part number based on port diameter.

Kit

RS100X00012

Included Parts

Key	Description	Quantity
7A	Diaphragm	1
16	Disk holder and disk	1
19	Gasket [for all spring ranges except 1.5 to 2.5 (103 to 172 mbar)]	1

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FISHER ROSEMOUNT™

TYPE S104 AND S106 REGULATORS

August 1985

Seat ring is not included and must be specified separately by appropriate part number.

Kit RS104X00012

Included Parts

Key	Description	Quantity
5	Gasket	1
7A	Diaphragm	1
16	Disk and disk holder	1
19	Gasket	1
26	Back disk spring	1
27	Disk and disk holder	1

TYPE S105C REGULATOR

July 1983

Seat ring is not included and must be specified separately by appropriate part number.

Kit RS105CX00012

Included Parts

Key	Description	Quantity
5	Gasket	1
7	Diaphragm	1
16	Disk and disk holder	1
19	Gasket	1
26	Back disk spring	1
27	Disk and disk holder	1

TYPE S131 AND S132 REGULATORS

July 1983

Seat ring is not included and must be specified separately by appropriate part number.

Kit RS131X00012

Included Parts

Key	Description	Quantity
5	Gasket	1
7A	Diaphragm	1
16	Disk	1
19	Gasket	1

D101242X012

TYPES S201, S201H, S201K, S202, AND S202H REGULATORS

February 1988

Seat ring is not included and must be specified separately by appropriate part number. Kit selection is based on regulator type.

Type

S201, S202
S201H, S202H
S201K

Kit

RS201X00012
RS201HX0012
RS201KX0012

Included Parts

Key	Description	Quantity
5	Closing cap gasket	1
7A	Diaphragm	1
16	Disk holder assembly	1
19	O-ring	1

TYPE S203 REGULATOR

August 1985

Seat ring is not included and must be specified separately by appropriate part number. Kit selection is based on regulator spring.

Springs

Light
Heavy (S203H)

Kit

RS203X00012
Not Available

Included Parts

Key	Description	Quantity
5	Closing cap gasket	1
7A	Diaphragm	1
16	Disk holder assembly	1
19	O-ring	1
27	disk holder assembly	1
78	Diaphragm	1
82	O-ring	1
88	O-ring	1
90	O-ring	1
97	Piston ring	1

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FISHER-ROSEMOUNT™

TYPE S204 AND S206 REGULATORS

December 1983

For natural gas service. Seat ring is not included and must be specified separately by part number based on port diameter.

Springs

Light
Heavy (1H9758 or 1H9759)

Kits

RS204X00012
RS204X00022

Included Parts

Key	Description	Quantity
5	Closing cap gasket	1
7A	Diaphragm	1
16	Disk holder assembly	1
19	O-ring	1
27	Back disk holder	1

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FISHER-ROSEMOUNT™

TYPE S205 AND S207 REGULATORS

December 1983

Seat ring is not included and must be specified separately by part number for the required sizes.

Type and Application

S205—Natural gas
S207—Natural gas

Kits

RS205X00012
RS207X00012

Included Parts

Key	Description	Quantity
5	Closing cap gasket	1
7A	Diaphragm	1
16	Disk holder assembly	1
19	O-ring	1
26	Back disc spring	1
27	Back disk holder assembly	1
34	Gasket	1

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FISHER-ROSEMOUNT

S301 AND S302 SERIES REGULATORS

March 1984

Seat ring is not included and must be ordered separately by appropriate part number based on port diameter.

Type	S301 & S301H S302 & S302H	S301D & s301F	S301P & S301HP S302P & S302HP
Kits	RS301X00012	RS301FX0012	RS301PX0012

Included Parts

Key	Description	Quantity		
5A	Diaphragm	1	1	1
5B	Diaphragm pad	1	1	1
19	Disk holder assembly	1	1	1
27	O-ring	1	1	1
33	Closing cap gasket	1	1	1
35	O-ring	---	---	1
36	O-ring	---	1	1

S400 SERIES REGULATORS

February 1990

Orifice Tube Assembly

Orifice Size, Inch

1/8
3/16
1/4

Kits

RS400X00012
RS400X00022
RS400X00032

Included Parts

Key	Description	Quantity
7	Orifice tube assembly	1
8	O-ring	1
9	Screw	2
15	O-ring	1

DESIGN V100 VALVE BODY

June 1987

Repair kits include recommended spares for TCM or 316 stainless steel ball seal constructions. Gasket material is composition for temperatures up to 450°F. Packing is PTFE and carbon filled PTFE in single arrangement for standard packing box. Fewer shim seals are furnished than in the original construction as it is anticipated most original seals will be re-used during repair.

Ball Seal Material Body Size, Inch	Repair Kits	
	TCM	316 Stainless Steel
1	RV100X00C12	RV100X00M12
1-1/2	RV100X00C22	RV100X00M22
2	RV100X00C32	RV100X00M32
3	RV100X00C42	RV100X00M42
4	RV100X00C52	RV100X00M52
6	RV100X00C62	RV100X00M62
8	RV100X00C72	RV100X00M72
10	RV100X00C82	RV100X00M82
12 (reduced bore)	RV100X00C82	RV100X00M82
12	RV100X00C92	RV100X00M92

Included Parts

Key	Description	Quantity	
9	Groove pin (2 through 12-inch—new style)	1	1
9	Taper pin (all sizes—old style)	1	1
10	Shim seal	4	4
11	Ball seal	1	1
12	Shim seal	---	1
16	Packing set	1	1
19	Thrust washer (1 required on 1, 1-1/2, & 2-inch only)	2	2
23	Gasket	1	1
34	O-ring	1	1

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FISHER-ROSEMOUNT

DESIGN V100 VALVE BODY

June 1987

Retrofit kits includes parts to update bodies constructed before 1984. Vee-ball is 317 stainless steel chrome plated and bushing is 316 stainless steel plastic alloy lined. See PS Sheet 51.3:V100(I) for detailed information.

Retrofit Kits

Drive Shaft and Guide Post Material Body Size, Inch

17-4PH Stainless Steel

Nitronic 50

2	RV100X00S12	RV100X00N12
3	RV100X00S22	RV100X00N22
4	RV100X00S32	RV100X00N32
6	RV100X00S42	RV100X00N42
8	RV100X00S52	RV100X00N52
10	RV100X00S62	RV100X00N62
12 (reduced bore)	RV100X00S62	RV100X00N62
12	RV100X00S72	RV100X00N72

Included Parts

Key	Description	Quantity	
2	Vee-ball/bushing assembly	1	1
6	Drive shaft	1	1
7	Guide post	1	1
9	Groove pin	1	1

V150 (Repair)

DESIGN V150 VALVE BODY

April 1995

Seal repair kits include recommended spares for TCM, 316 stainless steel, CF10SMnN, CD7MCuN, or alloy 6 ball seal constructions. Graphite laminate gasket. Fewer shim seals are furnished than the original construction as it is anticipated most original seals will be reused during repair.

Ball Seal Material	Kits				
	TCM	316 Stainless Steel	Alloy 6	CF10SMnN (Nitronic 60)	CD7MCuM (Alloy 255 Duplex SST)
Body Size, Inch					
1	RV150X00CA2	---	RV150XHDAA2	---	RV150XHDCA2
1-1/2	RV150X00CB2	---	RV150XHDAB2	---	RV150XHDCB2
2	RV150X00C12	RV150X00M12	---	RV150X0HD12	RV150XHDC12
2(1)	RV150X00C82	---	RV150XHDAC2	RV150X0HD82	RV150XHDC82
3	RV150X00C22	RV150X00M22	RV150XHDAD2	RV150X0HD22	RV150XHDC22
4	RV150X00C32	RV150X00M32	RV150XHDAE2	RV150X0HD32	RV150XHDC32
6	RV150X00C42	RV150X00M42	RV150XHDAF2	RV150X0HD42	RV150XHDC42
8	RV150X00C52	RV150X00M52	RV150XHDAG2	RV150X0HD52	RV150XHDC52
10	RV150X00C62	RV150X00M62	RV150XHDAH2	RV150X0HD62	RV150XHDC62
12	RV150X00C72	RV150X00M72	RV150XHDAJ2	RV150X0HD72	RV150XHDC72

Included Parts

Key	Description	Quantity				
11	Ball seal	1	1	1	1	1
12	Shim seal	---	4	---	---	---
13	Spring seal	---	1	---	---	---
13	Wave spring	---	---	1	1	1
15	Gasket	1	1	1	1	1
21	Retainer screw (qty 1 for 1 through 8-inch body; qty 4 for 10 through 12-inch body)					
22	Retainer washer (qty 1 for 1 through 8-inch body; qty 4 for 10 through 12-inch body)					
37	Radial seal	---	---	1	1	1

1. For serial numbers 12551183 and above.

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FISHER-ROSEMOUNT

DESIGN V150 VALVE BODY

December 1994

Retrofit kits include parts to convert existing valves to the HD (heavy duty) metal ball seal construction. Seal protector ring is standard ISA S75.04 face-to-face.

Body Size, Inch	Seal Protector Ring Material	Kits Ball Seal Material	
		CF10SMnN (Nitronic 60)	CD7MCuN (Alloy 255 Duplex SST)
2	WCC (steel)	RV150X0R012	RV150XCR012
2 ⁽¹⁾		RV150X0R152	RV150XCR152
3		RV150X0R022	RV150XCR022
4		RV150X0R032	RV150XCR032
6		RV150X0R042	RV150XCR042
8		RV150X0R052	RV150XCR052
10		RV150X0R062	RV150XCR062
12		RV150X0R072	RV150XCR072
2	CG8M (317 SST)	RV150X0R082	RV150XCR082
2 ⁽¹⁾		RV150X0R162	RV150XCR162
3		RV150X0R092	RV150XCR092
4		RV150X0R102	RV150XCR102
6		RV150X0R112	RV150XCR112
8		RV150X0R122	RV150XCR122
10		RV150X0R132	RV150XCR132
12		RV150X0R142	RV150XCR142

Included Parts

Key	Description	Quantity	
3	Seal protector ring	1	1
11	Ball seal	1	1
13	Wave spring	1	1
15	Gasket	1	1
21	Retainer screw (quantity of 2 for 2 thru 8-inch body; quantity of 4 for 10 and 12-inch body)		
22	Retainer washer(quantity of 2 for 2 thru 8-inch body; quantity of 4 for 10 and 12-inch body)		
37	Radial seal	1	1
41	Retaining ring (size 10 and 12-inch bodies only)	1	1

1. For serial numbers 12551183 and above.

V200 and V300 (Repair)

DESIGN V200 AND V300 VALVE BODIES

April 1995

Seal repair kits include recommended spares for TCM, 316 stainless steel, CF10SMnN, CD7MCuN, or alloy 6 ball seal constructions. Graphite laminate gasket. Fewer shim seals are furnished than the original construction as it is anticipated most original seals will be reused during repair. NOTE: Design V200 valve body is not available in 12-inch size.

Ball Seal Material	Kits				
	TCM	316 Stainless Steel	Alloy 6	CF10SMnN (Nitronic 60)	CD7MCuM (Alloy 255 Duplex SST)
Body Size, Inch					
1	RV150X00CA2	---	RV150XHDAA2	---	RV150XHDCA2
1-1/2	RV150X00CB2	---	RV150XHDAB2	---	RV150XHDCB2
2	RV150X00C82	---	RV150XHDAC2	RV150X0HD82	RV150XHDC82
3	RV150X00C22	RV150X00M22	RV150XHDAD2	RV150X0HD22	RV150XHDC22
4	RV150X00C32	RV150X00M32	RV150XHDAE2	RV150X0HD32	RV150XHDC32
6	RV150X00C42	RV150X00M42	RV150XHDAF2	RV150X0HD42	RV150XHDC42
8	RV150X00C52	RV150X00M52	RV150XHDAG2	RV150X0HD52	RV150XHDC52
10	RV150X00C62	RV150X00M62	RV150XHDAH2	RV150X0HD62	RV150XHDC62
12	RV150X00C72	RV150X00M72	RV150XHDAJ2	RV150X0HD72	RV150XHDC72

Included Parts

Key	Description	Quantity				
11	Ball seal	1	1	1	1	1
12	Shim seal	---	4	---	---	---
13	Spring seal	---	1	---	---	---
13	Wave spring	---	---	1	1	1
15	Gasket	1	1	1	1	1
21	Retainer screw (qty 1 for 1 through 8-inch body; qty 4 for 10 through 12-inch body)					
22	Retainer washer (qty 1 for 1 through 8-inch body; qty 4 for 10 through 12-inch body)					
37	Radial seal	---	---	1	1	1

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FISHER-ROSEMOUNT

DESIGN V200 AND V300 VALVE BODIES

December 1994

Retrofit kits include parts to convert existing valves to the HD (heavy duty) metal ball seal construction. Seal protector ring is standard ISA S75.04 face-to-face. NOTE: Design V200 valve body is not available in 12-inch size.

Body Size, Inch	Seal Protector Ring Material	Kits Ball Seal Material	
		CF10SMnN (Nitronic 60)	CD7MCuN (Alloy 255 Duplex SST)
2	WCC (steel)	RV150X0R152	RV150XCR152
3		RV150X0R022	RV150XCR022
4		RV150X0R032	RV150XCR032
6		RV150X0R042	RV150XCR042
8		RV150X0R052	RV150XCR052
10		RV150X0R062	RV150XCR062
12		RV150X0R072	RV150XCR072
2	CG8M (317 SST)	RV150X0R162	RV150XCR162
3		RV150X0R092	RV150XCR092
4		RV150X0R102	RV150XCR102
6		RV150X0R112	RV150XCR112
8		RV150X0R122	RV150XCR122
10		RV150X0R132	RV150XCR132
12		RV150X0R142	RV150XCR142

Included Parts

Key	Description	Quantity	
3	Seal protector ring	1	1
11	Ball seal	1	1
13	Wave spring	1	1
15	Gasket	1	1
21	Retainer screw (quantity of 2 for 2 thru 8-inch body; quantity of 4 for 10 and 12-inch body)		
22	Retainer washer (not required on Design V200: quantity of 2 for 2 thru 8-inch body; quantity of 4 for 10 and 12-inch body)		
37	Radial seal	1	1
41	Retaining ring (size 10 and 12-inch bodies only)	1	1

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FISHER-ROSEMOUNT

DESIGN V250 BALL VALVE

August 1985

Repair kits include bushing shims, seals and gaskets with quantities and materials specified by valve size and seal construction design. Fewer shim seals and bushing spacer shims are furnished than in the original construction as it is anticipated most original seals will be re-used during repair.

Body Size, Inch

	Kits		
	Single Seal	Dual Seal	Flow Ring
4	RV250X00412	RV250X00422	RV250X00432
6	RV250X00612	RV250X00622	RV250X00632
8	RV250X00812	RV250X00822	RV250X00832
10	RV250X01012	RV250X01022	RV250X01032
12	RV250X01212	RV250X01222	RV250X01232
16	RV250X01612	RV250X01622	RV250X01632
24	RV250X02412	RV250X02422	RV250X02432

Included Parts

Key	Description	Quantity		
10	Shim seal	2	4	2
11	Ball seal	1	2	---
12	Gasket	1	1	1
13	O-ring	1	2	1
16	Seal ring	2	2	2
18	Bushing spacer shim	4	4	4
19	Washer	2	2	2
23	O-ring	2	2	2

DESIGN V500 BALL VALVE

May 1993

Repair kits include recommended spares for standard and sealed bearing construction. Nitrile O-rings for sealed bearing construction only. NOTE: Packing is not included and needs to be ordered by the appropriate part number.

Valve Size, Inch

Valve Size, Inch	Kits
1	RV500X00012
1-1/2	RV500X00022
2	RV500X00032
3	RV500X00042
4	RV500X00052
6	RV500X00062
8	RV500X00072

Included Parts

Key	Description	Quantity
9	Expansion pin	1
10	Taper pin	1
11	Retainer gasket	1
19	O-ring (sealed bearing only)	2
20	O-ring (sealed bearing only)	2

D101250X012

TYPE Y191A REGULATOR

April 1999

Repair kit for stainless steel trim. Diaphragm, disk, and O-ring material is nitrile.

NOTE: Orifice is not included and if required must be specified separately by appropriate part number.

Kit RY690AX0012

Included Parts

Key	Description	Quantity
10	Diaphragm	1
11	Body O-ring	1
12	Insert O-ring	1
13	Disk holder assembly	1
15	Cotter pin	1
31	Throat O-ring	1
33	Screw	1
48	Post O-ring	1
50	Conn O-ring	1

Y600 SERIES REGULATORS

April 1989

Kits are for old Type Y600-2, -3, -10, -11, -12, and -14 and new Type Y600, Y600C, and Y600P regulators only.

Trim	Orifice Size, Inch, (mm)	Kits
Standard	7/16 (11.1) and under	RY600X00012
Standard	Over 7/16 (11.1)	RY600X00022
Stainless steel	7/16 (11.1) and under	RY600X00032
Stainless steel	Over 7/16 (11.1)	RY600X00042

Included Parts

Key	Description	Quantity
5	Diaphragm	1
14	Cotter pin	1
15	O-ring (Type Y600-11 only)	1
16	Body gasket	1
25	Disk holder assembly	1
35	Closing cap gasket	1

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FISHER-ROSEMOUNT

TYPE Y600A AND Y600AM REGULATORS

February 1999

Disk holder assembly is aluminum/nitrile, diaphragm is nylon and O-ring material is nitrile.

NOTE: Orifice is not included and if required must be specified separately by appropriate part number.

Kit RY600AX0012

Included Parts

Key	Description	Quantity
10	Diaphragm	1
11	Body O-ring	1
12	Insert O-ring	1
13	Disk holder assembly	1
15	Cotter pin	1
30	Stem O-ring (Y600AM only)	1
31	Throat O-ring (Y600AM only)	1
33	Screw (Y600AM only)	1

TYPE Y600AR REGULATOR

February 1999

Disk holder assembly is aluminum/nitrile, diaphragm is nylon and O-ring material is nitrile.

NOTE: Orifice is not included and if required must be specified separately by appropriate part number.

Kit RY600ARX012

Included Parts

Key	Description	Quantity
10	Diaphragm	1
11	Body O-ring	1
12	Insert O-ring	1
13	Disk holder assembly	1
15	Cotter pin	1

TYPE Y600R REGULATOR

April 1989

Kit RY600RX0012

Included Parts

Key	Description	Quantity
5	Diaphragm	1
14	Cotter pin	1
16	Body gasket	1
25	Disk holder assembly	1
35	Closing cap gasket	1

**Y690, Y690H, Y690M, Y690A,
Y690AH, Y690AHM, Y690M**

TYPE Y690, Y690H, AND Y690M REGULATOR

February 1994

Repair kits are for stainless steel trim. Diaphragm and disk material is nitrile. NOTE: Orifice is not included and if required must be specified separately by appropriate part number.

Kit

RY690X00012

Included Parts

Key	Description	Quantity
5	Diaphragm	1
10	Pusher post O-ring	1
14	Cotter pin	1
15	Valve stem O-ring (Y690M and Y750M only)	1
16	Body gasket	1
25	Disk holder assembly	1
31	Lower head gasket (Y690 only)	1
35	Closing cap gasket (Key 37 on Y690H & Y690M)	1

TYPE Y690A, Y690AH, Y690AHM, AND Y690AM

February 1999

Repair kit is for stainless steel trim. Diaphragm, disk, and O-ring material is nitrile.

NOTE: Orifice is not included and if required must be specified separately by appropriate part number.

Kit

RY690AX0012

Included Parts

Key	Description	Quantity
10	Diaphragm	1
11	Body O-ring	1
12	Insert O-ring	1
13	Disk holder assembly	1
15	Cotter pin	1
30	Stem O-ring (Y690AHM/AM only)	1
31	Throat O-ring (Y690AHM/AM only)	1
33	Screw (Y690AHM/AM only)	1
48	Post O-ring	1
49	Conn O-ring	1

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FISHER-ROSEMOUNT

TYPE Y690VB AND Y690VBM

February 1999

Repair kit is for stainless steel trim. Diaphragm, disk, and O-ring material is nitrile.

NOTE: Orifice is not included and if required must be specified separately by appropriate part number.

Kit

RY690AX0012

Included Parts

Key	Description	Quantity
10	Diaphragm	1
11	Body O-ring	1
12	Insert O-ring	1
13	Disk holder assembly	1
15	Cotter pin	1
25	Closing cap	1
30	Stem O-ring (Y690VBM only)	1
31	Throat O-ring (Y690VBM only)	1
33	Screw (Y690VBM only)	1
48	Lower head gasket	1

TYPE Y692 REGULATOR

June 1992

Repair kits are for stainless steel trim. Diaphragm and disk material is nitrile. NOTE: Orifice is not included and if required must be specified separately by appropriate part number.

Kits

Orifice Diameter, Inch (mm)

1/2 (12.7) and Under

3/4 (19.1) and Over

RY692X00012

RY692X00022

Included Parts

Key	Description	Quantity	
5	Diaphragm/head assembly	1	1
7	Lower head gasket	1	1
14	Cotter pin	1	1
16	Body gasket	1	1
25	Disk holder assembly	1	1
35	Closing cap gasket	1	1
46	Valve disk washer	---	1
47	Disk screw	---	1

TYPE Y696 REGULATOR

June 1992

Repair kits are for stainless steel trim. Diaphragm and disk material is nitrile. NOTE: Orifice is not included and if required must be specified separately by appropriate part number.

Kit RY696X00012

Included Parts

Key	Description	Quantity
5	Diaphragm	1
7	Lower head gasket	1
10	Cotter pin	1
14	Body gasket	1
16	Valve stem O-ring (Y690M and Y750M only)	1
25	Disk holder assembly	1
35	Closing cap gasket	1
46	Valve disk washer	1
47	Disk screw	1

TYPE Y750 and Y750M REGULATOR

February 1994

Repair kits are for stainless steel trim. Diaphragm and disk material is nitrile. NOTE: Orifice is not included and if required must be specified separately by appropriate part number.

Kit RY690X00012

Included Parts

Key	Description	Quantity
5	Diaphragm	1
10	Pusher post O-ring	1
14	Cotter pin	1
15	Valve stem O-ring (Y750M only)	1
16	Body gasket	1
25	Disk holder assembly	1
31	Lower head gasket (Y690 only)	1
37	Closing cap gasket	1

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