

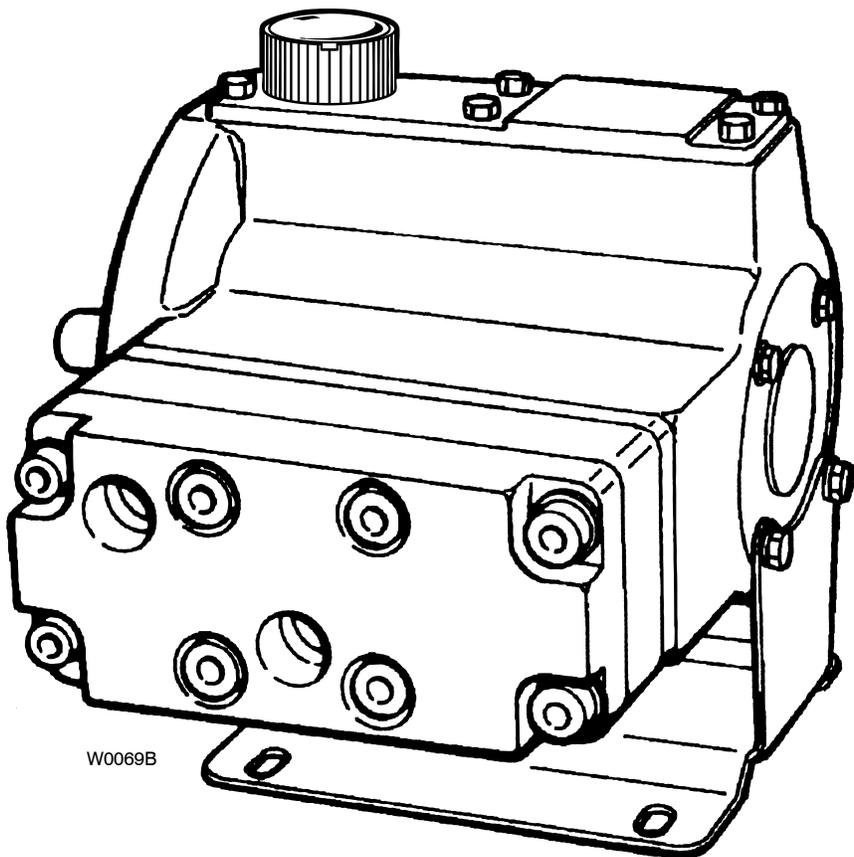
PARTS MANUAL

G04-991-2402B-UK

Hydra-Cell[®]

INDUSTRIAL PUMPS

Model: G-04



W0069B

IMPORTANT

Record your pump model number and serial number here for easy reference:

Model No. _____

Serial No. _____

Date of Purchase _____

When ordering parts or making inquiries about this pump, please mention the model and serial numbers.



WANNER ENGINEERING, INC.

1204 Chestnut Avenue, Minneapolis, MN 55403

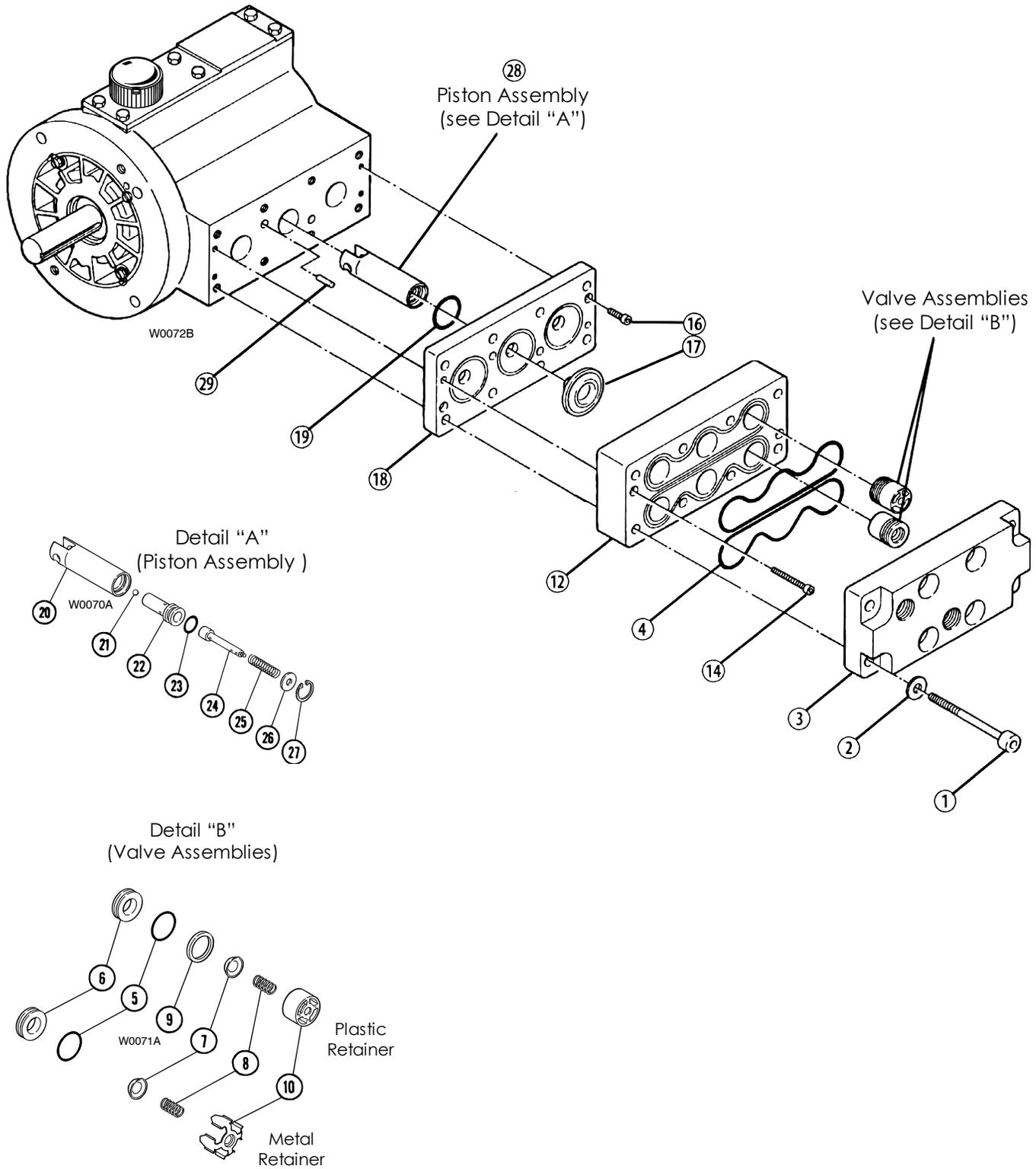
TEL: (612) 332-5681 FAX: (612) 332-6937

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G-04 Fluid End



Bolt Torque Specifications

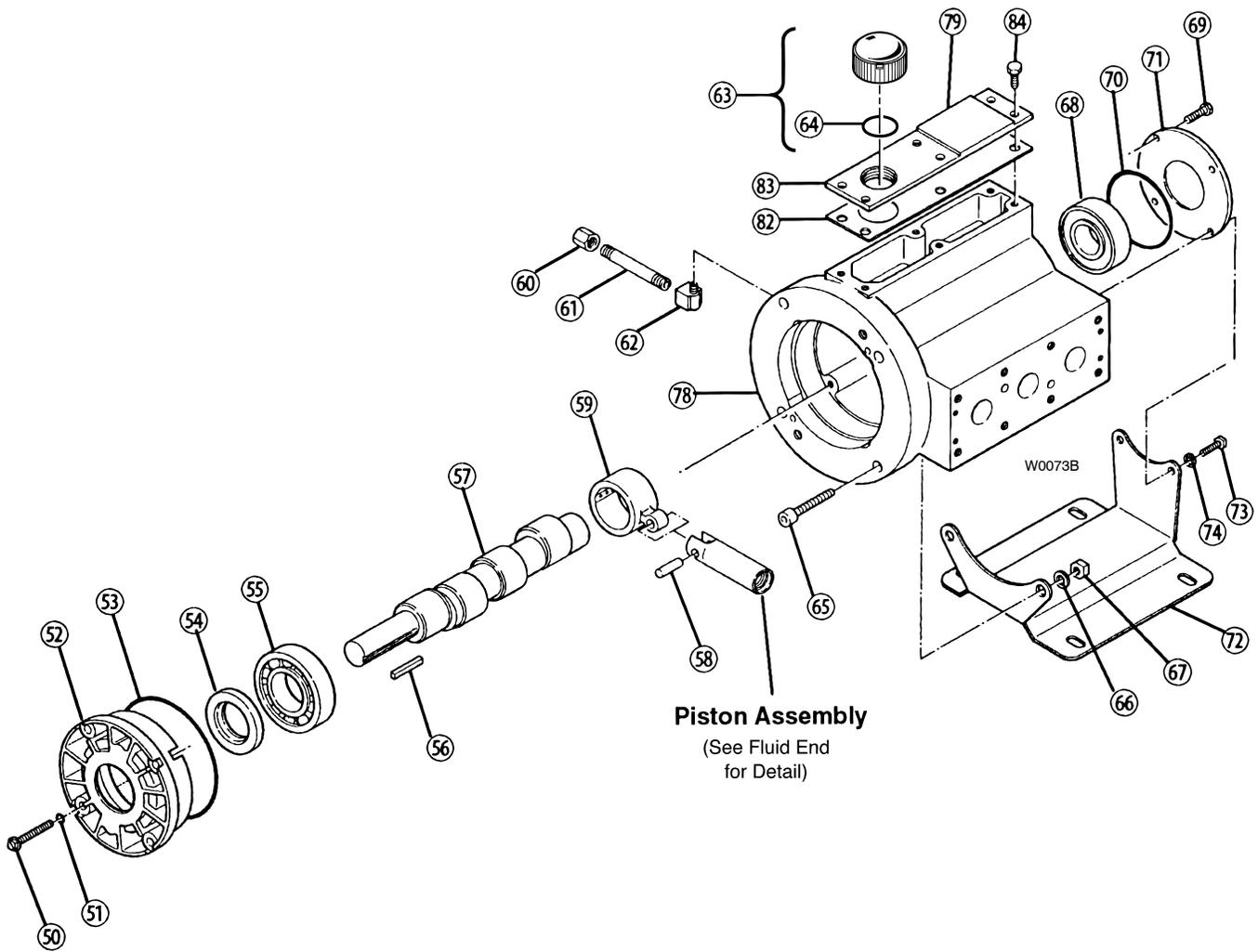
Ref. No.	G-04
1	70 Nm
17	110 Ncm

G-04 Fluid End

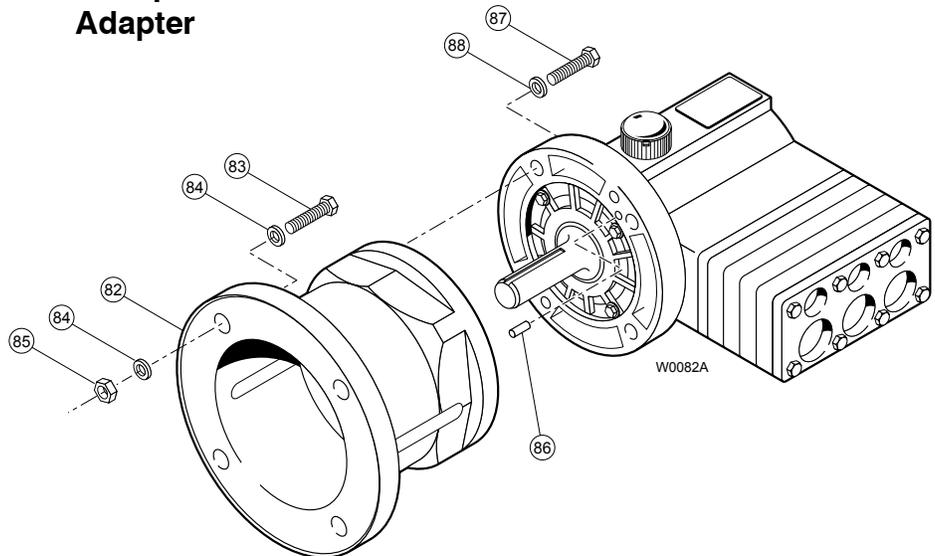
Ref. No.	Part Number	Description	Quantity/ Pump
1	G10-024-2010	Cap Screw, socket-head, M10 x 1.5 x 90 mm.....	8
2	D11-048-2011	Washer, flat, hardened.....	8
2	G03-004-1040	Manifold, brass.....	1
	G03-004-1034	Manifold, 304 SST	1
	G03-004-1036	Manifold, 316 SST	1
4	D03-073-2140	O-ring, manifold, Buna.....	2
	D03-073-2141	O-ring, manifold, Viton.....	2
	D03-073-2148	O-ring, manifold, PTFE.....	2
	D03-073-2143	O-ring, manifold, EPDM.....	2
	D03-073-2142	O-ring, manifold, Neoprene.....	2
5	D25-046-2110	O-ring, valve seat, Buna	6
	D25-046-2111	O-ring, valve seat, Viton	6
	D03-035-2118	O-ring, valve seat, PTFE.....	6
	D03-035-2113	O-ring, valve seat, EPDM	6
	D03-035-2112	O-ring, valve seat, Neoprene.....	6
6	D15-020-2010	Valve Seat, 17-4 SST.....	6
	D15-020-2011	Valve Seat, Nitronic 50	6
	D15-020-2016	Valve Seat, tungsten carbide.....	6
	D15-020-2017	Valve Seat, Hastelloy C	6
7	D03-021-1011	Valve, Nitronic 50	6
	D03-021-1015	Valve, 17-4, machined.....	6
	D03-021-1016	Valve, tungsten carbide	6
	D03-021-1017	Valve, Hastelloy C.....	6
8	D03-022-3113	Valve Spring, Hastelloy C	6
	D03-022-3114	Valve Spring, Elgiloy	6
	D03-022-3118	Valve Spring, 316 SST	6
9	D03-092-2110	Tetra Seal, Buna	6
	D03-092-2111	Tetra Seal, Viton.....	6
	D03-035-2119	O-ring, solid PTFE	6
	D03-035-2113	Tetra Seal, EPDM	6
	D03-035-2112	Tetra Seal, Neoprene	6
10	D03-023-1010	Retainer, valve spring, 17-7 SST.....	6
	D03-023-1017	Retainer, valve spring, Hastelloy C.....	6
	D03-023-2310	Retainer, valve spring, Celcon.....	6
	D03-023-2316	Retainer, valve spring, Nylon.....	6
	D03-023-2317	Retainer, valve spring, polypropylene	6
	D03-023-2318	Retainer, valve spring, Kynar	6

Ref. No.	Part Number	Description	Quantity/ Pump
11	D03-125-1011	Washer, dampening, SST	6
1	D03-003-1030	Valve Plate, brass	1
	D03-003-1034	Valve Plate, 304 SST	1
	D03-003-1036	Valve Plate, 316 SST	1
14	G10-088-2010	Cap Screw, socket-head, M6 x 1.0 x 30 mm.....	2
16	G03-088-2010	Cap Screw, socket-head, M6 x 1.0 x 20 mm.....	2
17	D03-018-1240	Diaphragm, Buna-N-XS	3
	D03-018-1245	Diaphragm, Viton-XT	3
	K03-018-1248	Diaphragm, PTFE	3
	K03-018-1243	Diaphragm, EPDM.....	3
	K03-018-1242	Diaphragm, Neoprene.....	3
18	D03-002-1012	Diaphragm Plate, steel.....	1
19	D03-075-2110	O-ring, diaphragm plate, Buna.....	3
20	D03-014-1004	Piston	3
21	D10-015-3010	Ball	3
22	D03-043-1000	Valve Cylinder	3
23	D03-034-2110	O-ring, valve cylinder, Buna.....	3
24	D03-044-1000	Valve Plunger	3
25	D03-045-3110	Spring, sleeve valve	3
26	D03-049-1000	Washer	3
27	D03-048-2210	Snap Ring.....	3
28	D03-014-1210	Piston Assembly	3
29	D03-026-2210	Pin	2

G-04 Hydraulic End



G-04 Pump/Motor Adapter



G-04 Hydraulic End

Ref. No.	Part Number	Description	Quantity/ Pump	Ref. No.	Part Number	Description	Quantity/ Pump
50	G03-086-2010	Bolt, hex flange, M6 x 1.0 x 40 mm.....	4	66	G25-048-2010	Washer, M10 ¹	2
51	D25-047-2110	O-ring, back cover screws, Buna.....	4	67	G10-028-2010	Nut, hex, M10 ²	2
52	D03-131-1000	Back Cover.....	1	68	D03-010-2910	Front Bearing	1
53	D03-037-2110	O-ring, back cover, Buna	1	69	D03-087-2010	Cap Screw, hex-head, 1/2" ¹	2
54	D03-031-2110	Seal, Buna.....	1	70	D40-074-2110	O-ring, front cover, Buna.....	1
55	D03-011-2910	Back Bearing.....	1	71	D03-130-1000	Front Cover	1
56	D10-085-2210	Key, shaft	1	72	D03-025-1010	Base Plate	1
57	D03-009-1048	(S) Crank Shaft, shaft-driven, 22.2mm O.D., 5.5 l/min @ 1450 RPM.....	1	73	D03-089-2010	Cap Screw, hex-head, 3/4" ¹	2
	D03-009-1042	(E) Crank Shaft, shaft-driven, 22.2mm O.D., 6.5 l/min @ 1450 RPM.....	1	74	D03-050-2010	Washer, lock ²	2
	D03-009-1040	(X) Crank Shaft, shaft-driven, 22.2mm O.D., 9.0 l/min @ 1450 RPM.....	1	78	G03-001-1218	Pump Housing Assembly ⁵	—
					G03-001-1228	Pump Housing ⁵	1
58	D03-133-1000	Pin	3	79	D10-040-2410	Name Plate.....	1
59	D03-132-1004	Connecting Rod, aluminum-bronze....	3	82	G25-106-2318	Gasket, cover	1
60	D10-078-2210	Cap, brass, 1/8".....	1	83	H25-105-1018	Cover, housing	1
61	D10-077-2210	Pipe, brass, 1/8".....	1	84	G25-090-2010	Cap Screw, hex-head, M8 x 1.25 x 16 mm	6
62	D10-076-2210	Elbow, brass, 1/8".....	1	86	D03-026-2211	Pin ³	2
63	D03-039-1030	Cap with O-ring, oil fill	1				
64	D10-080-2110	O-ring, oil fill, Buna.....	1				
65	G03-068-2010	Cap Screw, socket-head, M10 x 1.5 x 40 mm ¹	2				

- ¹ Qty: 2 on pumps with baseplate (72); 4 on pumps with motor adapter (85).
- ² Qty: 2 on pumps with baseplate (72); not included on pumps with motor adapter (85).
- ³ Qty: 2 on pumps with motor adapter (85); 4 on pumps with baseplate (72).
- ⁴ Pump Housing Assembly includes housing (78), drain plug (60, 61, 62) and from bearing (68).
- ⁵ Motor adapter is not supplied with pump, and must be purchased separately. Motor Adapter Kit includes all screws, washers, and pins required to connect it to the pump and motor (but does not include shaft coupling.)

G-04 Pump/Motor Adapter Kit

For IEC 80-90 B5 Flange Motors (Complete Kit Part No. A04-003-1202)

For IEC 100-112 B5 Flange Motors (Complete Kit Part No. A04-004-1202)

Ref No.	Description	For A04-003-1202 Part Number	For A04-004-1202 Part Number	Qty/ Kit
82	Pump/Motor Adapter	A04-032-1001	A04-033-1003	1
83	Cap Screw, socket-head	G03-068-2010	A04-043-2010	4
84	Lockwasher	A04-044-2010	M10-111-2000	8
85	Nut	A04-047-2010	A04-045-2010	4
86	Pin	D03-026-2211	D03-026-2211	2
87	Cap Screw, socket-head	G03-068-2010	G03-068-2010	4
88	Lockwasher	G25-048-2010	G25-048-2010	4

G-04 Series Replacement Parts Kits

TO ORDER REPLACEMENT PARTS KIT: A Replacement Parts Kit contains 11 digits corresponding to customer-specified design options.

1	2	3	4	5	6	7	8	9	10	11
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Digit	Order Code	Description
1-3	G04	Pump Configuration For all G-04 Pumps
4		Kit Designator
	K	Complete Fluid End Kit
	D	Diaphragm Kit
	V	Valve Kit (diaphragm not included)
5-6	51	Pump Head Version Pump Head Version
7		Diaphragm & O-ring Material
	E	EPDM
	G	Viton®XT
	J	PTFE
	P	Neoprene
	T	Buna-N-XS
8		Valve Seat Material
	D	Tungsten Carbide
	H	17-4 PH Stainless Steel
	N	Nitronic 50
	T	Hastelloy®C
	X	Not included in Diaphragm Kit
9		Valve Material
	D	Tungsten Carbide
	F	17-4 PH Stainless Steel – Machined
	N	Nitronic 50
	T	Hastelloy®C
	X	Not included in Diaphragm Kit
10		Valve Springs
	E	Egiloy®
	S	316 Stainless Steel
	T	Hastelloy®C
	X	Not included in Diaphragm Kit
11		Valve Spring Retainers
	C	Celcon
	H	17-7 PH Stainless Steel
	M	Kynar®
	P	Polypropylene
	T	Hastelloy®C
	Y	Nylon
	X	Not included in Diaphragm Kit

Kit Contents

Part Number*	Description	Qty	Kit Designator		
			K	D	V
D03-018-__	Diaphragm	3	•	•	
D03-073-__	O-ring, manifold	2	•	•	•
D25-046-__	O-ring, valve seat	6	•		•
D03-020-__	Valve seat	6	•		•
D03-021-__	Valve	6	•		•
D03-022-__	Valve spring	6	•		•
D03-092-__	Tetra seal**	6	•		•
D03-023-__	Retainer, valve spring	6	•		•
D03-125-1011	Washer, dampening***	6	•		•
A01-113-3400	Threadlocker	1	•		•

* Last four digits of part numbers with –__ refer to specific material of construction.

** Not included with metal spring retainers.

*** Note: dampening washer not used in newer models. The thickness of valve seat is increased on newer models to eliminate the need for the dampening washers.



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