

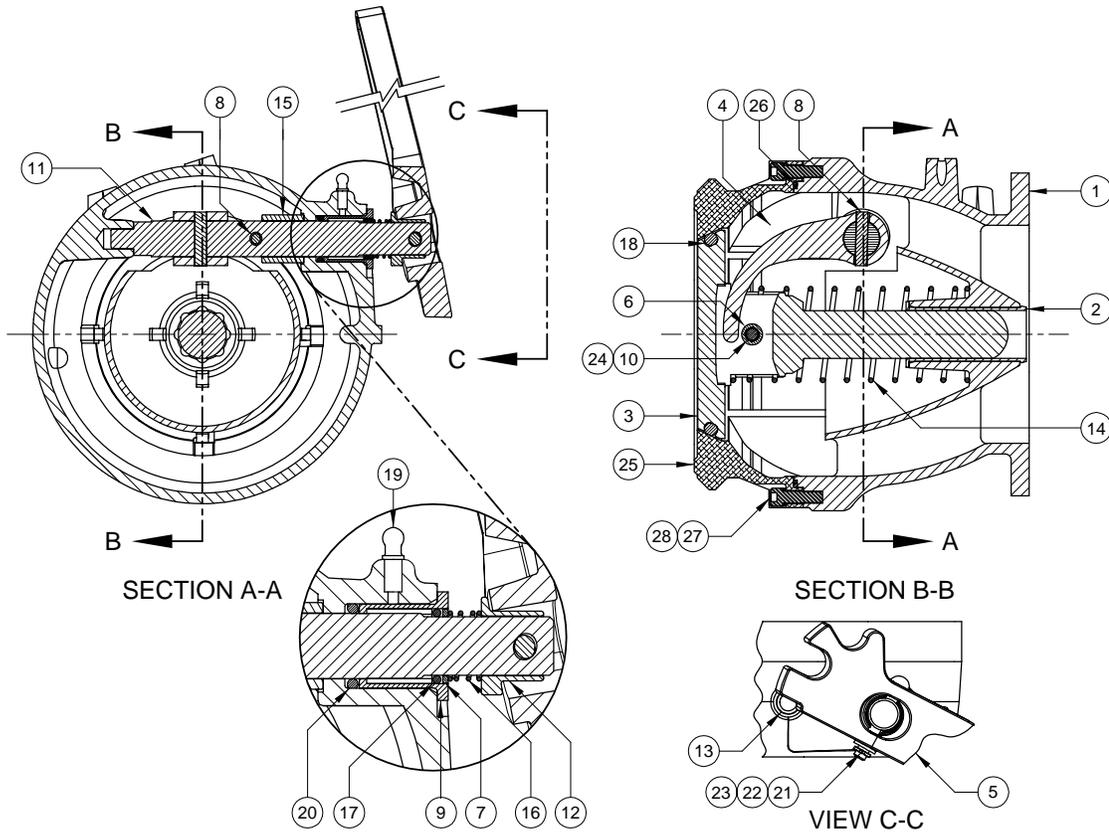
Western Pacific Products, Inc.

Anything In Or On Your Tank – Ready to Ship

Over 8,000 Part Numbers – Over 26,000 Square Feet of Warehouse – We Ship Worldwide

Rev. 0, January 2003

861 BOTTOM LOADING ADAPTOR



ITEM	PART NUMBER	DESCRIPTION	QTY.
1	E10066A	BODY	1
2	H20071M	BEARING (POPPET)	1
3	E10004A	POPPET	1
4	C10008EW	CAM	1
5	C10009M	HANDLE (DURATUFF) ²	1
6	H20052M	ROLLER	1
7	H20199M	WASHER ²	1
8	H20092M	LOCK PIN (SHAFT)	2
9	H20048M	BEARING ²	1
10	H20078M	ROLLER BEARING	1
11	H20050RE	SHAFT	1
12	H20049M	HUB ²	1
13	H20051M	STOP PIN	1
14	H20178M	SPRING (POPPET)	1
15	H20203M	SPACER	1
16	H20182M	SPRING (HANDLE) ²	1
17	H06924M	O-RING (OUTER SHAFT, BUNA) ^{1,2}	1

ITEM	PART NUMBER	DESCRIPTION	QTY.
18	H20058M	O-RING (POPPET, VITON) ¹	1
19	H20285M	GREASE FITTING	1
20	H20311M	O-RING (INNER SHAFT, BUNA) ¹	1
21	H08901M	FULCRUM PIN ²	1
22	H20312M	WASHER ²	1
23	H04981M	COTTER PIN ²	1
24	H20361M	LOCK PIN (POPPET)	1
25	E10003AH	ADAPTOR FACE (ANODIZED)	1
26	H20315M	O-RING (BUNA)	1
27	H20151M	CAP SCREW	8
28	H20057M	LOCK WASHER	8

REPAIR KITS	
PART NUMBER	DESCRIPTION
861ORK	O-RING REPAIR KIT
861HRK	HANDLE REPAIR KIT (DURATUFF)

1 - Included in 861ORK, 2 - Included in 861HRK

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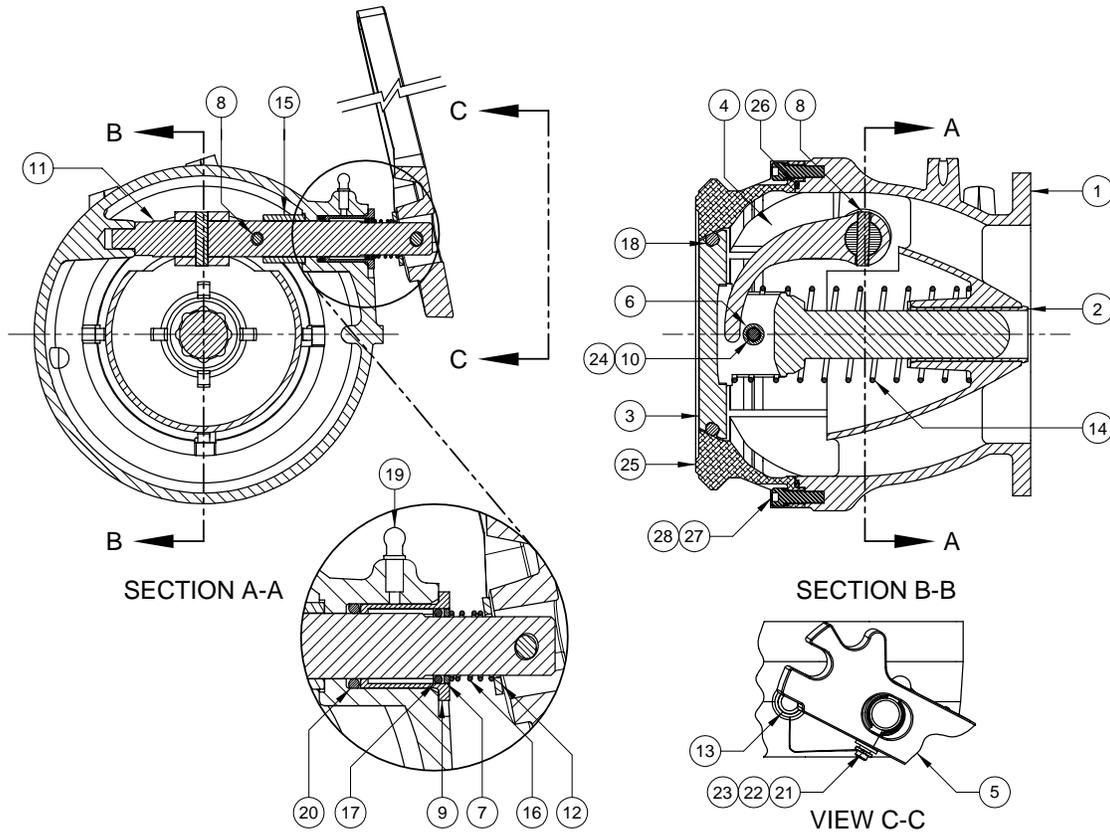
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861A BOTTOM LOADING ADAPTOR



ITEM	PART NUMBER	DESCRIPTION	QTY.
1	E10066A	BODY	1
2	H20071M	BEARING (POPPET)	1
3	E10004A	POPPET	1
4	C10008EW	CAM	1
5	D51940M	HANDLE (ALUMINUM) ²	1
6	H20052M	ROLLER	1
7	H20199M	WASHER ²	1
8	H20092M	LOCK PIN (SHAFT)	2
9	H20048M	BEARING ²	1
10	H20078M	ROLLER BEARING	1
11	H20050RE	SHAFT	1
12	H52344M	WASHER ²	1
13	H20051M	STOP PIN	1
14	H20178M	SPRING (POPPET)	1
15	H20203M	SPACER	1
16	H20182M	SPRING (HANDLE) ²	1
17	H06924M	O-RING (OUTER SHAFT, BUNA) ^{1,2}	1

ITEM	PART NUMBER	DESCRIPTION	QTY.
18	H20058M	O-RING (POPPET, VITON) ¹	1
19	H20285M	GREASE FITTING	1
20	H20311M	O-RING (INNER SHAFT, BUNA) ¹	1
21	H08901M	FULCRUM PIN ²	1
22	H20312M	WASHER ²	1
23	H04981M	COTTER PIN ²	1
24	H20361M	LOCK PIN (POPPET)	1
25	E10003AH	ADAPTOR FACE (ANODIZED)	1
26	H20315M	O-RING (BUNA)	1
27	H20151M	CAP SCREW	8
28	H20057M	LOCK WASHER	8

REPAIR KITS	
PART NUMBER	DESCRIPTION
861ORK	O-RING REPAIR KIT
861HRK-ALUM	HANDLE REPAIR KIT (ALUMINUM)

1 - Included in 861ORK, 2 - Included in 861HRK-ALUM

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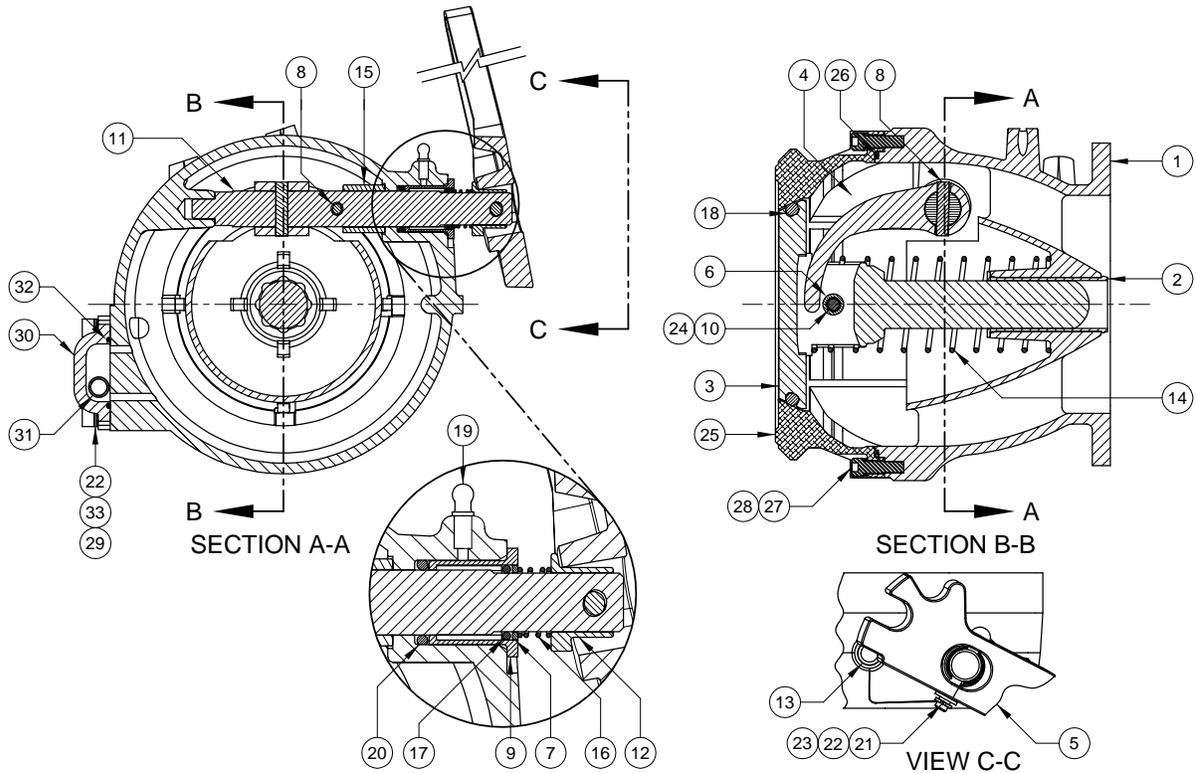
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861B BOTTOM LOADING ADAPTOR



ITEM	PART NUMBER	DESCRIPTION	QTY.
1	E10066A	BODY	1
2	H20071M	BEARING (POPPET)	1
3	E10004A	POPPET	1
4	C10008EW	CAM	1
5	C10009M	HANDLE (DURATUFF) ³	1
6	H20052M	ROLLER	1
7	H20199M	WASHER ³	1
8	H20092M	LOCK PIN (SHAFT)	2
9	H20048M	BEARING ³	1
10	H20078M	ROLLER BEARING	1
11	H20050RE	SHAFT	1
12	H20049M	HUB ³	1
13	H20051M	STOP PIN	1
14	H20178M	SPRING (POPPET)	1
15	H20203M	SPACER	1
16	H20182M	SPRING (HANDLE) ³	1
17	H06924M	O-RING (OUTER SHAFT, BUNA) ^{1,3}	1
18	H20058M	O-RING (POPPET, VITON) ¹	1
19	H20285M	GREASE FITTING	1
20	H20311M	O-RING (INNER SHAFT, BUNA) ¹	1

ITEM	PART NUMBER	DESCRIPTION	QTY.
21	H08901M	FULCRUM PIN ³	1
22	H20312M	WASHER ^{2,3}	5
23	H04981M	COTTER PIN ³	1
24	H20361M	LOCK PIN (POPPET)	1
25	E10003AH	ADAPTOR FACE (ANODIZED)	1
26	H20315M	O-RING (BUNA)	1
27	H20151M	CAP SCREW	8
28	H20057M	LOCK WASHER	8
29	H51477M	SCREW ²	4
30	C10316M	SIGHT GLASS ²	1
31	H51384M	FLOAT BALL ²	1
32	H51437M	O-RING (SIGHT GLASS) ²	1
33	H20057M	LOCK WASHER ²	4

REPAIR KITS	
PART NUMBER	DESCRIPTION
861ORK	O-RING REPAIR KIT
861BRK	SIGHT GLASS REPAIR KIT
861HRK	HANDLE REPAIR KIT (DURATUFF)

1 - Included in 861ORK, 2 - Included in 861BRK, 3 - Included in 861HRK

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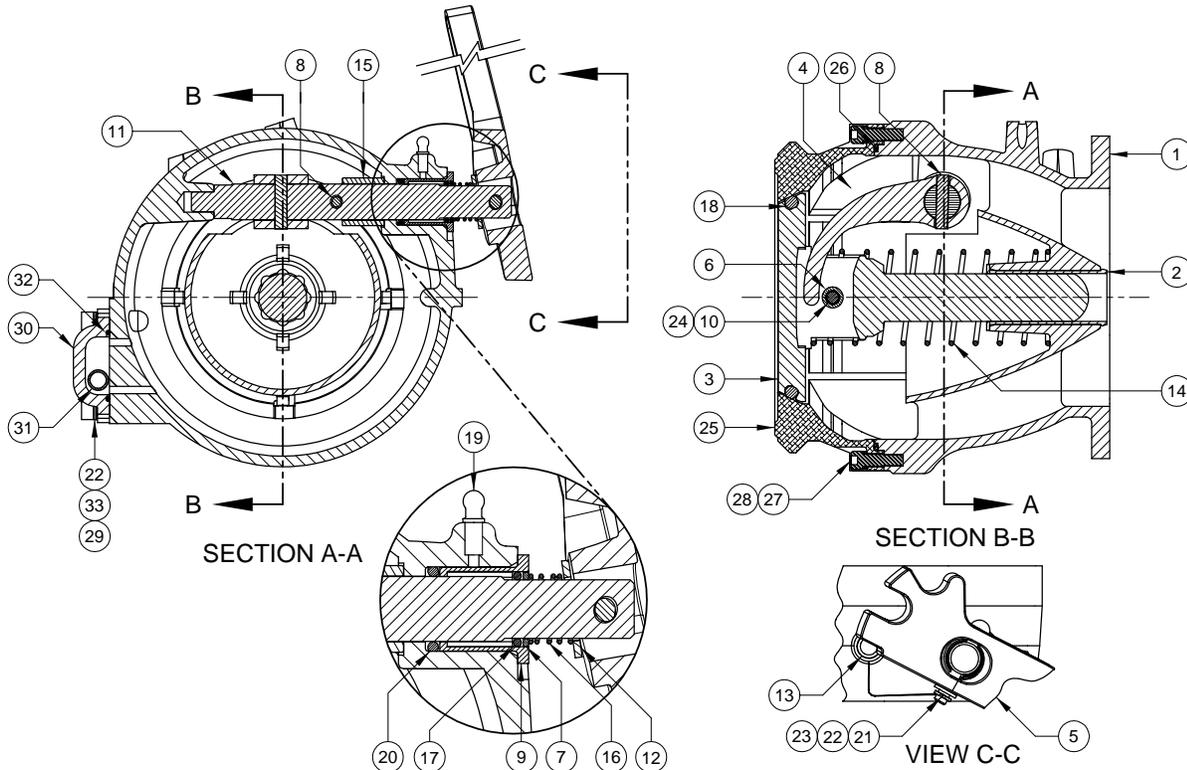
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861BA BOTTOM LOADING ADAPTOR



ITEM	PART NUMBER	DESCRIPTION	QTY.
1	E10066A	BODY	1
2	H20071M	BEARING (POPPET)	1
3	E10004A	POPPET	1
4	C10008EW	CAM	1
5	D51940M	HANDLE (ALUMINUM) ³	1
6	H20052M	ROLLER	1
7	H20199M	WASHER ³	1
8	H20092M	LOCK PIN (SHAFT)	2
9	H20048M	BEARING ³	1
10	H20078M	ROLLER BEARING	1
11	H20050RE	SHAFT	1
12	H52344M	WASHER ³	1
13	H20051M	STOP PIN	1
14	H20178M	SPRING (POPPET)	1
15	H20203M	SPACER	1
16	H20182M	SPRING (HANDLE) ³	1
17	H06924M	O-RING (OUTER SHAFT, BUNA) ^{1,3}	1
18	H20058M	O-RING (POPPET, VITON) ¹	1
19	H20285M	GREASE FITTING	1
20	H20311M	O-RING (INNER SHAFT, BUNA) ¹	1

ITEM	PART NUMBER	DESCRIPTION	QTY.
21	H08901M	FULCRUM PIN ³	1
22	H20312M	WASHER ^{2,3}	5
23	H04981M	COTTER PIN ³	1
24	H20361M	LOCK PIN (POPPET)	1
25	E10003AH	ADAPTOR FACE (ANODIZED)	1
26	H20315M	O-RING (BUNA)	1
27	H20151M	CAP SCREW	8
28	H20057M	LOCK WASHER	8
29	H51477M	SCREW ²	4
30	C10316M	SIGHT GLASS ²	1
31	H51384M	FLOAT BALL ²	1
32	H51437M	O-RING (SIGHT GLASS) ²	1
33	H20057M	LOCK WASHER ²	4

REPAIR KITS	
PART NUMBER	DESCRIPTION
861ORK	O-RING REPAIR KIT
861BRK	SIGHT GLASS REPAIR KIT
861HRK-ALUM	HANDLE REPAIR KIT (ALUMINUM)

1 - Included in 861ORK, 2 - Included in 861BRK, 3 - Included in 861HRK-ALUM

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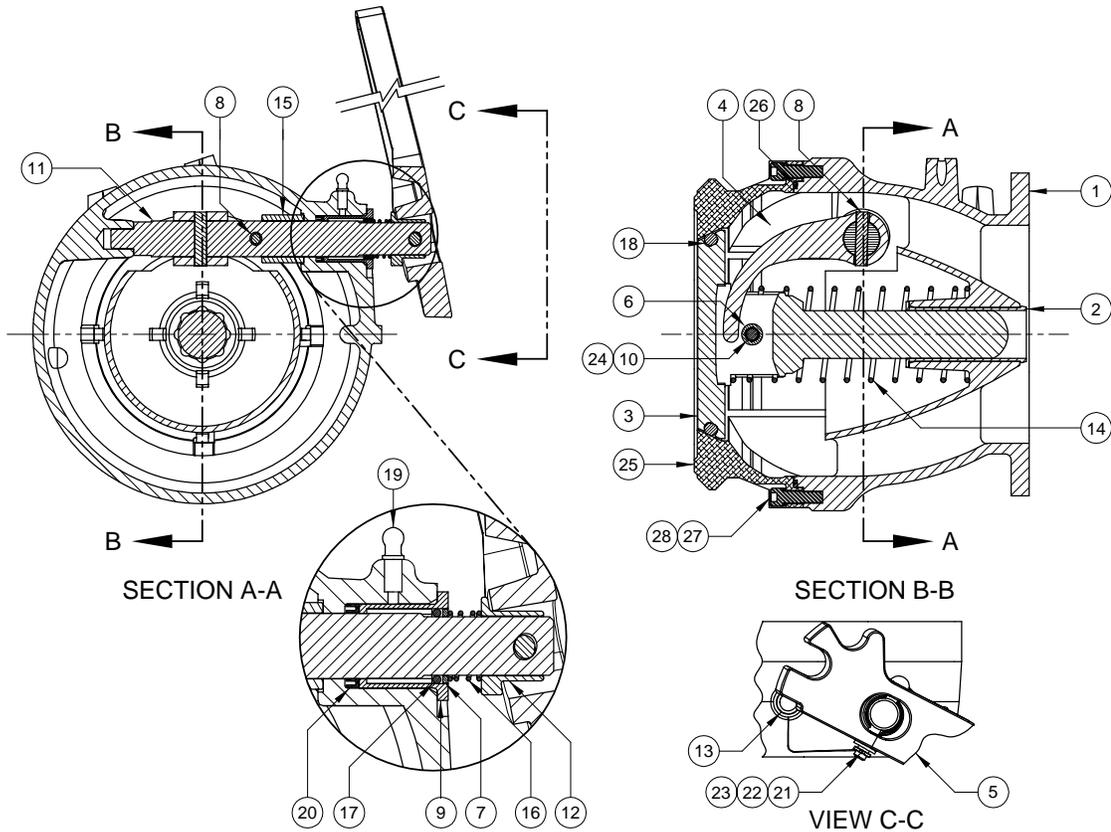
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Rev. 0, January 2003

861ST BOTTOM LOADING ADAPTOR



ITEM	PART NUMBER	DESCRIPTION	QTY.
1	E10066A	BODY	1
2	H20071M	BEARING (POPPET)	1
3	E10004A	POPPET	1
4	C10008EW	CAM	1
5	C10009M	HANDLE (DURATUFF) ²	1
6	H20052M	ROLLER	1
7	H20199M	WASHER ²	1
8	H20092M	LOCK PIN (SHAFT)	2
9	H20048M	BEARING ²	1
10	H20078M	ROLLER BEARING	1
11	H20050RE	SHAFT	1
12	H20049M	HUB ²	1
13	H20051M	STOP PIN	1
14	H20073M	SPRING (POPPET)	1
15	H20203M	SPACER	1
16	H20182M	SPRING (HANDLE) ²	1
17	H06924M	O-RING (OUTER SHAFT, BUNA) ^{1,2}	1

ITEM	PART NUMBER	DESCRIPTION	QTY.
18	H20100M	O-RING (POPPET, PTFE/SIL) ¹	1
19	H20285M	GREASE FITTING	1
20	H20102M	SEAL RING (PTFE) ¹	1
21	H08901M	FULCRUM PIN ²	1
22	H20312M	WASHER ²	1
23	H04981M	COTTER PIN ²	1
24	H20361M	LOCK PIN (POPPET)	1
25	E10003AH	ADAPTOR FACE (ANODIZED)	1
26	H20099M	O-RING (PTFE)	1
27	H20151M	CAP SCREW	8
28	H20057M	LOCK WASHER	8

REPAIR KITS	
PART NUMBER	DESCRIPTION
861STORK	O-RING REPAIR KIT
861HRK	HANDLE REPAIR KIT (DURATUFF)

1 - Included in 861STORK, 2 - Included in 861HRK

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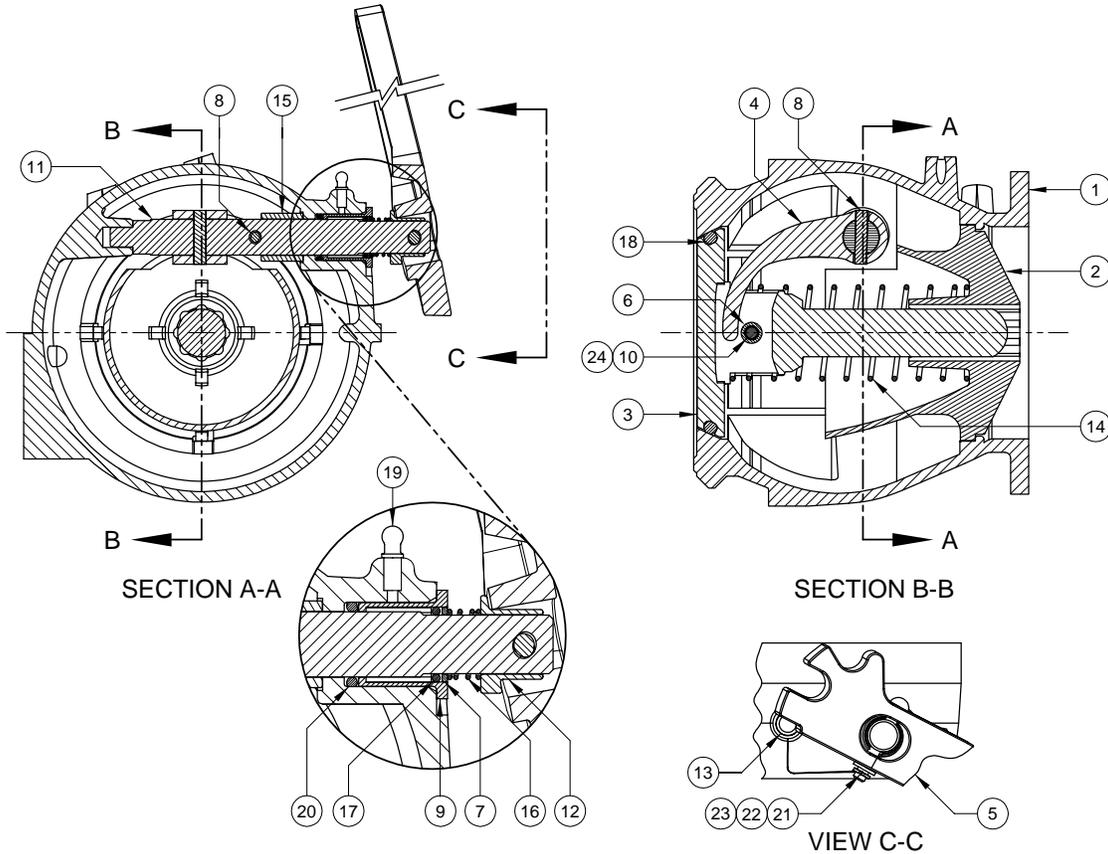
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897 BOTTOM LOADING ADAPTOR



ITEM	PART NUMBER	DESCRIPTION	QTY.
1	E51718A	BODY	1
2	E51507M	DEFLECTOR	1
3	E10004A	POPPET	1
4	C10008EW	CAM	1
5	C10009M	HANDLE (DURATUFF) ²	1
6	H20052M	ROLLER	1
7	H20199M	WASHER ²	1
8	H20092M	LOCK PIN (SHAFT)	2
9	H20048M	BEARING ²	1
10	H20078M	ROLLER BEARING	1
11	H20050RE	SHAFT	1
12	H20049M	HUB ²	1
13	H20051M	STOP PIN	1
14	H20178M	SPRING (POPPET)	1
15	H20203M	SPACER	1

ITEM	PART NUMBER	DESCRIPTION	QTY.
16	H20182M	SPRING (HANDLE) ²	1
17	H06924M	O-RING (OUTER SHAFT, BUNA) ^{1,2}	1
18	H20058M	O-RING (POPPET, VITON) ¹	1
19	H20285M	GREASE FITTING	1
20	H20311M	O-RING (INNER SHAFT, BUNA) ¹	1
21	H08901M	FULCRUM PIN ²	1
22	H20312M	WASHER ²	1
23	H04981M	COTTER PIN ²	1
24	H20361M	LOCK PIN (POPPET)	1

REPAIR KITS	
PART NUMBER	DESCRIPTION
861ORK	O-RING REPAIR KIT
861HRK	HANDLE REPAIR KIT (DURATUFF)

1 - Included in 861ORK, 2 - Included in 861HRK

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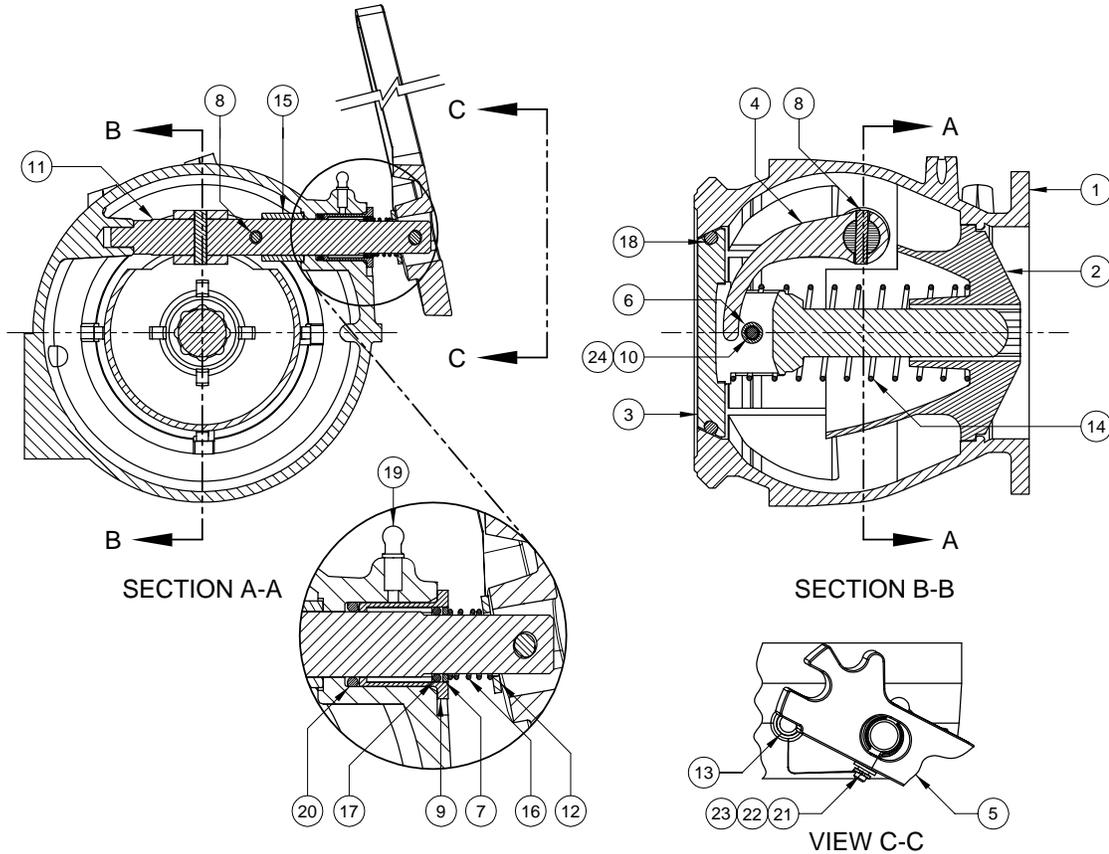
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897A BOTTOM LOADING ADAPTOR



ITEM	PART NUMBER	DESCRIPTION	QTY.
1	E51718A	BODY	1
2	E51507M	DEFLECTOR	1
3	E10004A	POPPET	1
4	C10008EW	CAM	1
5	D51940M	HANDLE (ALUMINUM) ²	1
6	H20052M	ROLLER	1
7	H20199M	WASHER ²	1
8	H20092M	LOCK PIN (SHAFT)	2
9	H20048M	BEARING ²	1
10	H20078M	ROLLER BEARING	1
11	H20050RE	SHAFT	1
12	H52344M	WASHER ²	1
13	H20051M	STOP PIN	1
14	H20178M	SPRING (POPPET)	1
15	H20203M	SPACER	1

ITEM	PART NUMBER	DESCRIPTION	QTY.
16	H20182M	SPRING (HANDLE) ²	1
17	H06924M	O-RING (OUTER SHAFT, BUNA) ^{1,2}	1
18	H20058M	O-RING (POPPET, VITÓN)	1
19	H20285M	GREASE FITTING	1
20	H20311M	O-RING (INNER SHAFT, BUNA) ¹	1
21	H08901M	FULCRUM PIN ²	1
22	H20312M	WASHER ²	1
23	H04981M	COTTER PIN ²	1
24	H20361M	LOCK PIN (POPPET)	1

REPAIR KITS	
PART NUMBER	DESCRIPTION
861ORK	O-RING REPAIR KIT
861HRK-ALUM	HANDLE REPAIR KIT (ALUMINUM)

1 - Included in 861ORK, 2 - Included in 861HRK-ALUM

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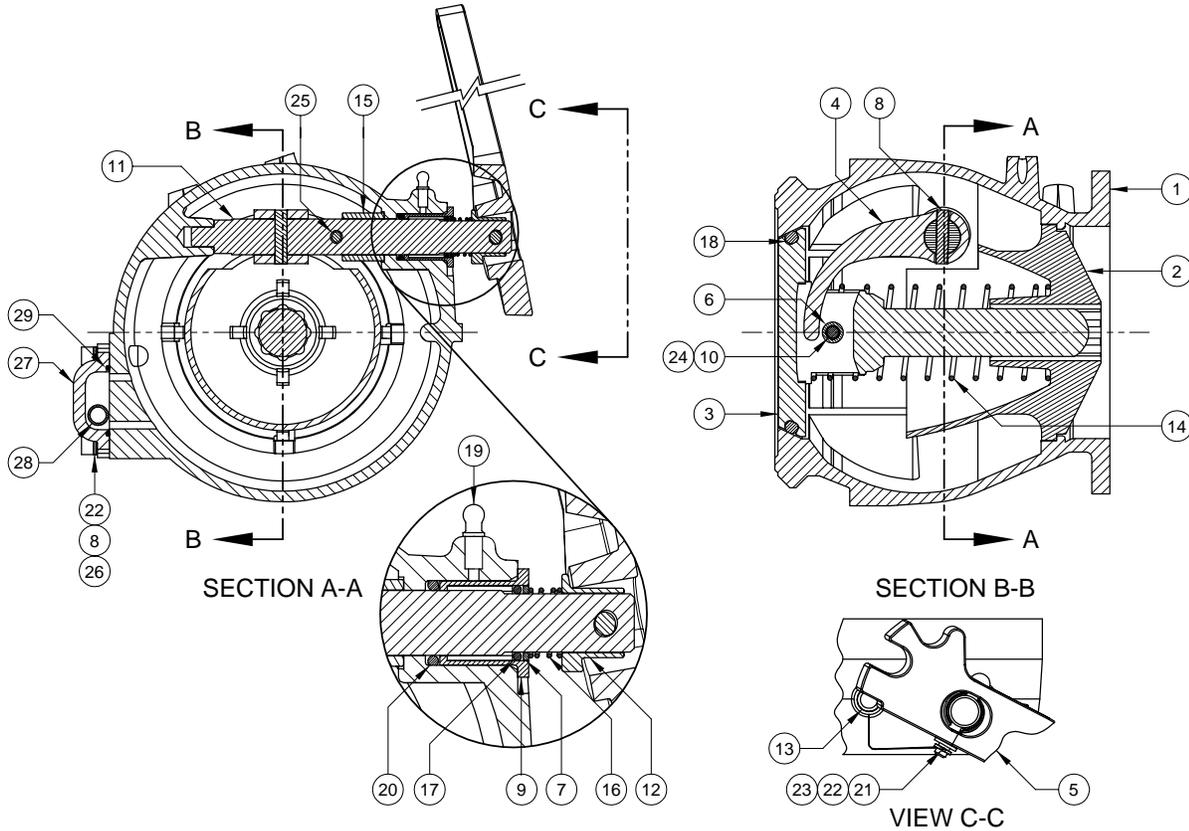
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897B BOTTOM LOADING ADAPTOR



ITEM	PART NUMBER	DESCRIPTION	QTY.
1	E51483A	BODY	1
2	E51507M	DEFLECTOR	1
3	E10004A	POPPET	1
4	C10008EW	CAM	1
5	C10009M	HANDLE (DURATUFF)	1
6	H20052M	ROLLER	1
7	H20199M	WASHER	1
8	H20057M	LOCK WASHER	4
9	H20048M	BEARING	1
10	H20078M	ROLLER BEARING	1
11	H20050RE	SHAFT	1
12	H20049M	HUB	1
13	H20051M	STOP PIN	1
14	H20178M	SPRING (POPPET)	1
15	H20203M	SPACER	1
16	H20182M	SPRING (HANDLE)	1
17	H06924M	O-RING (OUTER SHAFT, BUNA)	1
18	H20058M	O-RING (POPPET, VITON)	1

ITEM	PART NUMBER	DESCRIPTION	QTY.
19	H20285M	GREASE FITTING	1
20	H20311M	O-RING (INNER SHAFT, BUNA)	1
21	H08901M	FULCRUM PIN	1
22	H20312M	WASHER	5
23	H04981M	COTTER PIN	1
24	H20361M	LOCK PIN (POPPET)	1
25	H20092M	LOCK PIN (SHAFT)	2
26	H51477M	SCREW	4
27	C10316M	SIGHT GLASS	1
28	H51384M	FLOAT BALL	1
29	H51437M	O-RING (SIGHT GLASS)	1

REPAIR KITS	
PART NUMBER	DESCRIPTION
861ORK	O-RING REPAIR KIT
861BRK	SIGHT GLASS REPAIR KIT
861HRK	HANDLE REPAIR KIT (DURATUFF)

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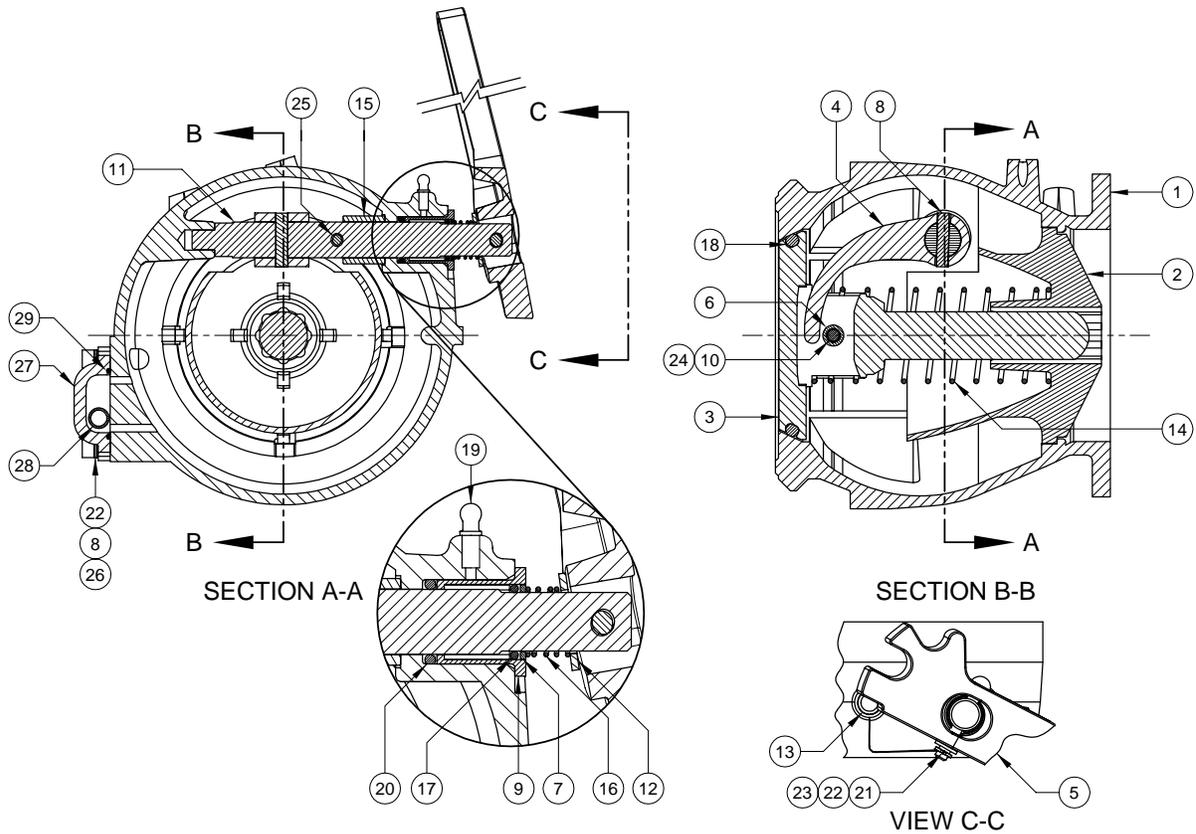
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ITEM	PART NUMBER	DESCRIPTION	QTY.
1	E51483A	BODY	1
2	E51507M	DEFLECTOR	1
3	E10004A	POPPET	1
4	C10008EW	CAM	1
5	D51940M	HANDLE (ALUMINUM) ³	1
6	H20052M	ROLLER	1
7	H20199M	WASHER ³	1
8	H20057M	LOCK WASHER ²	4
9	H20048M	BEARING ³	1
10	H20078M	ROLLER BEARING	1
11	H20050RE	SHAFT	1
12	H52344M	WASHER ²	1
13	H20051M	STOP PIN	1
14	H20178M	SPRING (POPPET)	1
15	H20203M	SPACER	1
16	H20182M	SPRING (HANDLE) ³	1
17	H06924M	O-RING (OUTER SHAFT, BUNA) ^{1,3}	1
18	H20058M	O-RING (POPPET, VITON) ¹	1

ITEM	PART NUMBER	DESCRIPTION	QTY.
19	H20285M	GREASE FITTING	1
20	H20311M	O-RING (INNER SHAFT, BUNA) ¹	1
21	H08901M	FULCRUM PIN ³	1
22	H20312M	WASHER ^{2,3}	5
23	H04981M	COTTER PIN ³	1
24	H20361M	LOCK PIN (POPPET)	1
25	H20092M	LOCK PIN (SHAFT)	2
26	H51477M	SCREW ²	4
27	C10316M	SIGHT GLASS ²	1
28	H51384M	FLOAT BALL ²	1
29	H51437M	O-RING (SIGHT GLASS) ²	1

REPAIR KITS	
PART NUMBER	DESCRIPTION
861ORK	O-RING REPAIR KIT
861BRK	SIGHT GLASS REPAIR KIT
861HRK-ALUM	HANDLE REPAIR KIT (ALUMINUM)

1 - Included in 861ORK, 2 - Included in 861BRK, 3 - Included in 861HRK

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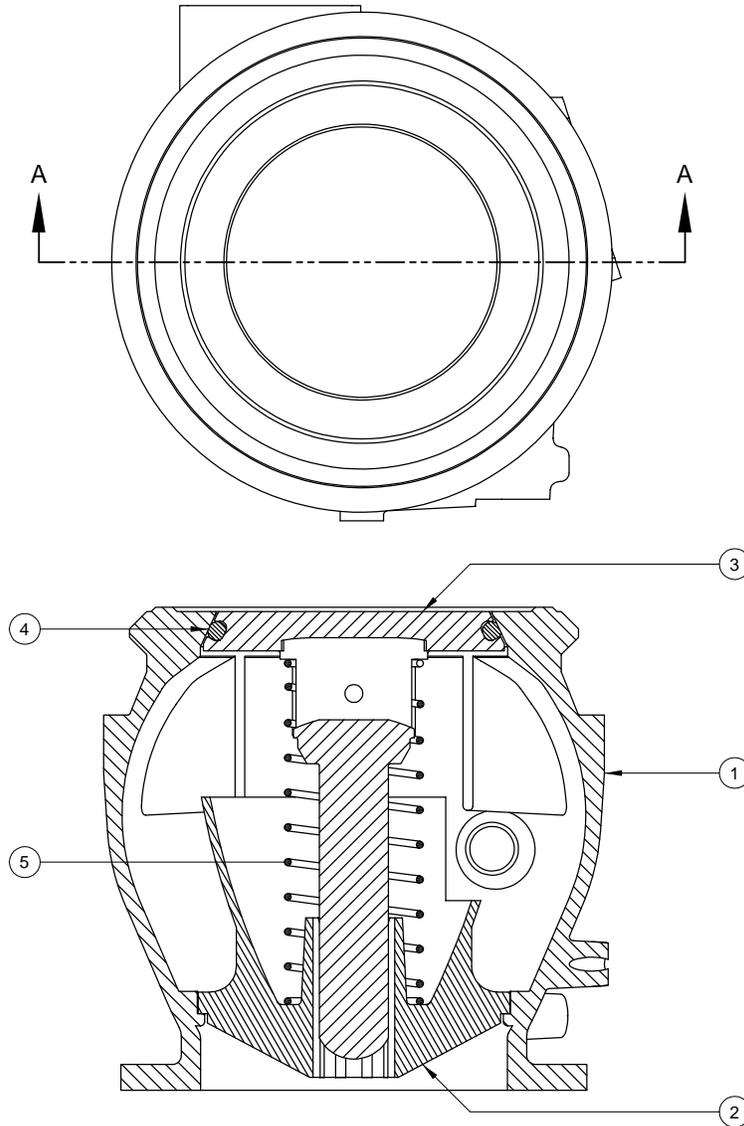
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897N BOTTOM LOADING ADAPTOR



SECTION A-A

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	E51838A	BODY	1
2	E51507M	DEFLECTOR	1
3	E10004A	POPPET	1

ITEM	PART NUMBER	DESCRIPTION	QTY.
4	H20058M	O-RING (VITON)	1
5	H20178M	SPRING	1

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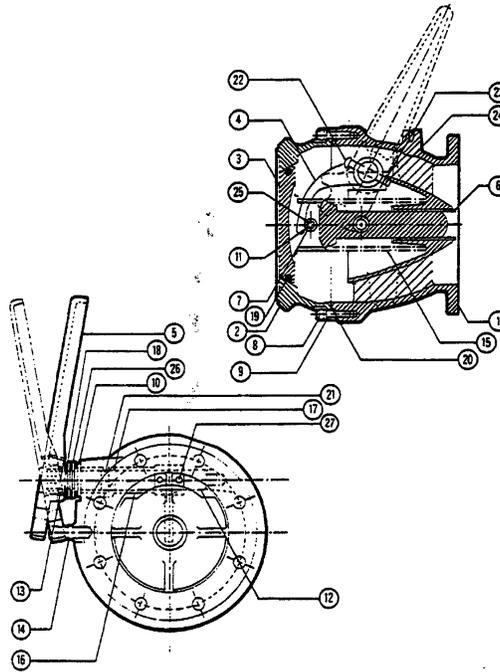
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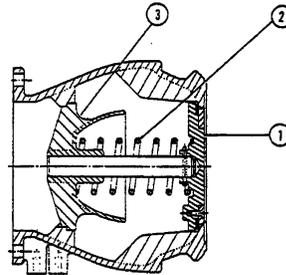
OPW 861

KEY	PART NO.	DESCRIPTION
1	E-100066-A	Pipe End
2	E-10003-AH	Adaptor End
3	E-10004-A	Poppet
4	C-10008-EW	Cam
5	C-10009-M	Handle
6	H-20071-RP	Bearing
7	H-20052-RE	Roller
8	H-20151-M	Screw (8)
9	H-20057-M	Lock Washer (8)
10	H-20048-M	Bearing
11	H-20078-M	Roller Bearing
12	H-20050-RE	Shaft
13	H-20200-M	Hub
14	H-20051-RA	Stop Pin
15	H-20178-M	Spring
16	H20203-RA	Spacer
17	H-20053-M	Wave Spring
18	H-20054-M	Spring Washer (2)
19	H-20058-M	O-Ring
20	H-20315-M	O-Ring
21	H-5138-M	O-Ring
22	H-8901-M	Pin
23	H-20312-M	Washer
24	H-4981-M	Cotter Pin
25	H-20361-M	Pivot Pin
26	H-20199-M	Washer (2)
27	H-20060-M	Spirol Pin (2)



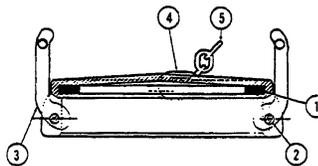
OPW 866

KEY	PART NO.	DESCRIPTION
1	H-8840	Poppet Sub-Assy.
2	H-8327-M	Spring
3	C-2779-M	Bell Ribbed Support



OPW 873

KEY	PART NO.	DESCRIPTION
1	H-8347-M	Gasket
2	H-9771-RE	Pin (2)
3	C-3379-M	Cam Arm (2)
4	H-8328-M	Chain Connector
5	H-8329-M	Chain



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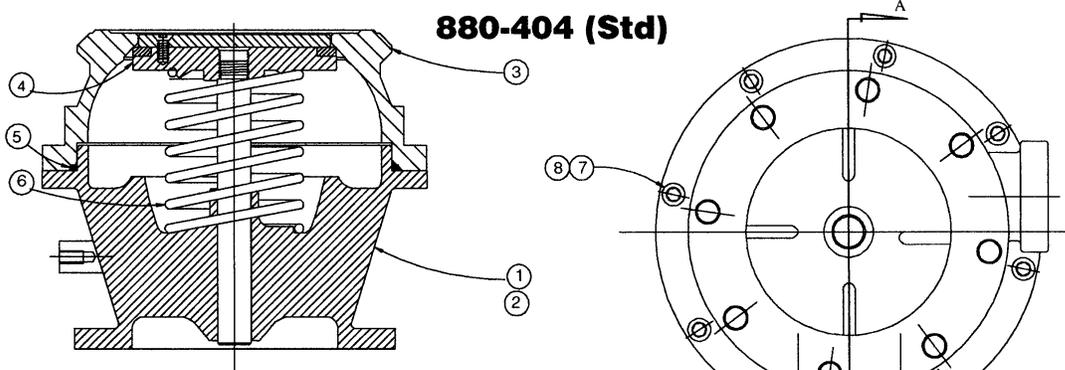
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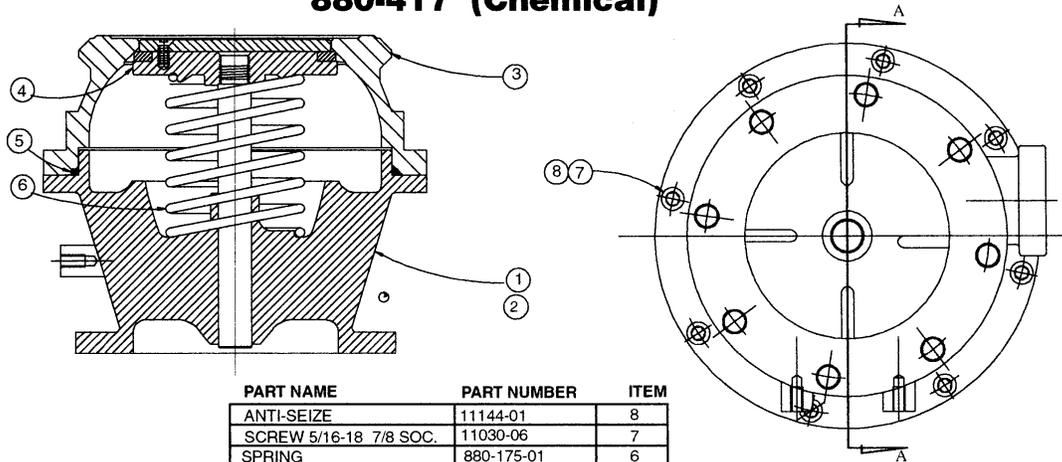
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PARTS LIST Bottom Loading Adaptors



PART NAME	PART NUMBER	ITEM
ANTI-SEIZE	11144-01	8
SCREW 5/16-18 7/8 SOC.	11030-06	7
SPRING	880-127-01	6
SEAL RING	11034-02	5
POPPET & STEM ASSY	880-112-01	4
ADAPTOR -COUPLER	880-401	3
ADAPTOR- 3" FLANGE	880-416-01	2
ADAPTOR- 4" FLANGE	880-400-01	1

880-417 (Chemical)



PART NAME	PART NUMBER	ITEM
ANTI-SEIZE	11144-01	8
SCREW 5/16-18 7/8 SOC.	11030-06	7
SPRING	880-175-01	6
SEAL RING	11166-01	5
POPPET & STEM ASSY	880-178-01	4
ADAPTOR -COUPLER	880-401-01	3
ADAPTOR- 3" FLANGE	880-416-01	2
ADAPTOR- 4" FLANGE	880-400-01	1

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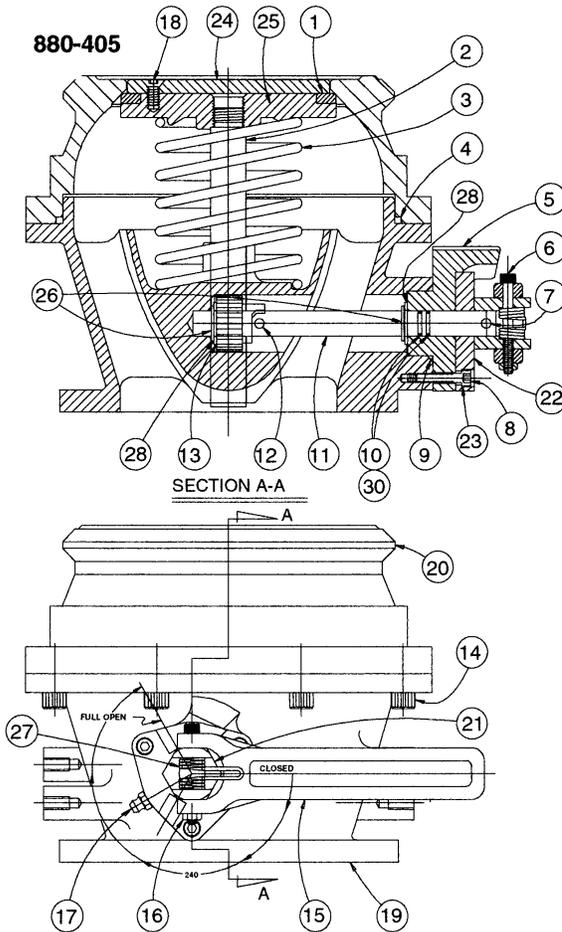
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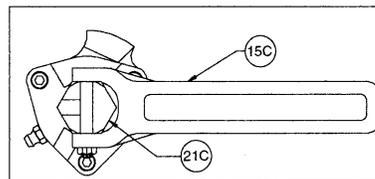
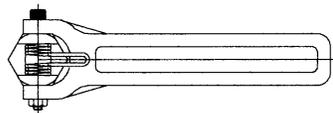
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PARTS LIST Bottom Loading Adaptors

880-405 (Std) 880-418 (Chemical) 880-405C (Canadian)



880-214
Handle
Hub-Assembly



880-405		QTY.	
ITEM	NAME	REQ'D.	PART NO.
	Service Kit	1	90006
	Service Kit includes:		
(1)	Item 1	(1)	Item 9
(1)	Item 4	(1)	Item 10
(1)	Item 8	(1)	Item 18
1	Poppet Seat Gasket (Viton)	1	880-116-01
2	Stem with Gear	1	880-105-01
3	Spring	1	880-127-01
4	Seal Ring (Viton)	1	11034-02
5	Latch	1	880-212-01
6	Soc. Hd. Cap Screw	1	11030-09
7	Spirol Pin	1	11086-04
8	Socket Hd. Cap Screw (S.S.)	3	11170-07
9	"O" Ring (Viton)	1	11062-02
10	"O" Ring (Viton)	2	11039-02
11	Shaft	1	880-101-01
12	Grooved Pin	1	11130-01
13	Gear	1	880-106-01
14	Socket Hd. Cap Screw	8	11030-06
15	Handle	1	880-211-01
16	Locknut	1	11109-01
17	Grease Fitting	1	11111-01
18	Flat Hd. Soc. Cap Screw	3	11067-03
19	Body (Openable) Style	1	880-400-02
20	API Adaptor	1	880-401-01
21	Hub	1	880-217-01
22	Latch Plate	1	880-172-01
23	Insert	3	880-173-01
24	Seal Retainer	1	880-126-01
25	Poppet Spring Guide	1	880-201-01
26	Retaining Ring	2	11001-03
27	Hatch Spring	1	880-216-01
28	Washer	2	880-117-01
29	Handle Ass'y.	1	880-205-01

880-418 (CHEMICAL)			
All parts are similar to 880-405 <i>except for the following.</i>			
ITEM	NAME	QTY.	REQ'D. PART NO.
1	Poppet Seat Gasket (Kalrez)	1	880-174-01
3	Spring (Poppet S.S.)	1	880-175-01
4	O-Ring (Teflon)	1	11166-01
9	O-Ring (Teflon)	1	11166-02
10	O-Ring (Viton) (Rear)	1	11039-02
12	Groove Pin	1	11167-01
13	Spur Gear	1	880-176-01
30	O-Ring (Kalrez) (Front)	1	11168-01
NOTE: Does not come with Service Kit Part No. 90006.			

880-405C (CANADIAN)			
All parts are similar to 880-405 <i>except for the following.</i>			
ITEM	NAME	QTY.	REQ'D. PART NO.
15C	Handle Ass'y.	1	880-225-01
21C	Hub	1	880-184-01

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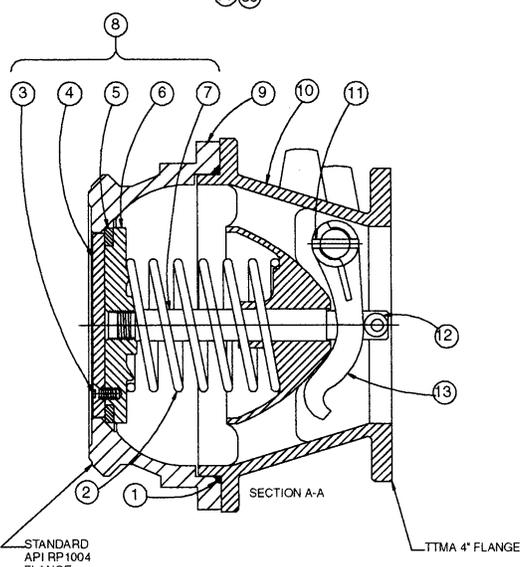
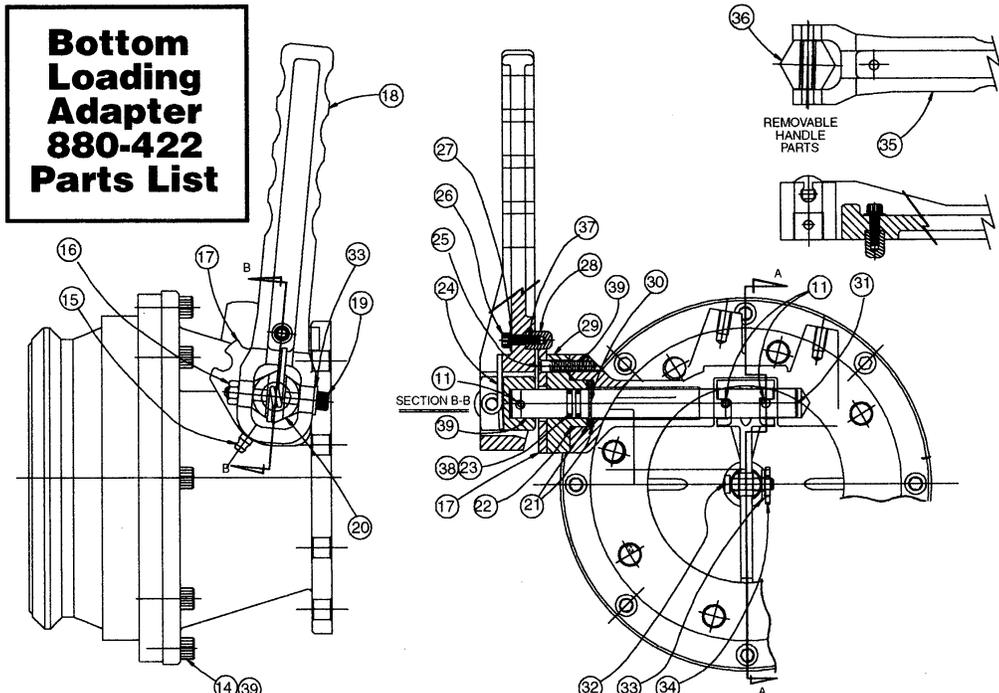
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Bottom Loading Adapter 880-422 Parts List



880-422C (canadian)
similar to 880-422 except for the following

HUB -HEX	880-198-01	20
HANDLE	880-326-01	18

PART NAME	PART NUMBER	ITEM
ANTI-SEIZE	11144-01	39
PETROLEUM -JELLY	11378-01	38
THREADLOCKER #222	12002-01	37
HEX -REMOVABLE HANDLE	880-199-01	36
HANDLE ASM-REMOVABLE	880-222-01	35
PIN -3/32 DIA. x 1/2 COTTER	11135-01	34
WASHER -1/4 FLAT	11136-01	33
PIN -ROLLER CAM	880-189-01	32
SHAFT -CROSS	880-218-01	31
RING -5/8 DIA. RETAINING	11001-06	30
ADAPTER -LATCH	880-219-01	29
PIN- LATCH	880-192-01	28
WASHER -#10 S.S.	11275-07	27
SCREW - 10-24 x 5/8 SOC	11030-10	26
SCREW -1/4-20 x 1 1/4 FLAT	11067-05	25
SPRING -HANDLE	880-102-01	24
RING -5/8 O.D. "O" (VITON)	11039-12	23
RING- 1 3/16 O.D. x 1 I.D. "O"	11062-04	22
WASHER -5/8 I.D. FLAT S.S.	880-191-01	21
HUB -HEX	880-198-01	20
SOC HD CAP SCREW S.S. 1/4-20 X 2.00	11170-16	19
HANDLE	880-326-01	18
LATCH	880-220-01	17
LOCKNUT -1/4-20	11041-05	16
FITTING -GREASE	11111-01	15
SCREW -5/16-18 x 7/8 SOC.	11030-06	14
CAM -LOADING ARM	880-215-01	13
ROLLER -CAM	880-190-01	12
PIN -3/16 x 1 SPIROL	11086-04	11
ADAPTOR -TANK TRUCK	880-425-01	10
ADAPTOR -API	880-401-01	9
POPPET & STEM ASM.	880-112-03	8
STEM	880-188-01	7
POPPET -SPRING GUIDE	880-201-01	6
SEAL -POPPET (VITON)	880-116-01	5
RETAINER -SEAL	880-126-01	4
SCREW -1/4-20x1/2 FLAT SOC	11067-03	3
SPRING	880-127-01	2
SEAL RING	11034-02	1

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F5000

API Adapter

FEATURES AND BENEFITS

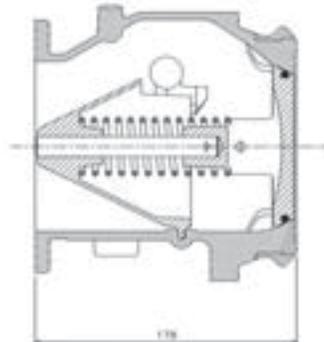
API adapter with a one piece body, hard anodized replaceable nose ring and flat bottom.

- All running surfaces are bushed for smooth operation and extended life.
- Hard anodized replaceable nose ring that can be indexed through four positions for extended life.
- Nose ring can be rotated without draining the line.
- Flat bottom of valve body ensures complete product drainage and minimizes contamination.
- Conforms to API RP1004 for total compatibility with API couplers.
- Lightweight die cast aluminum construction for increased payloads with strength.
- Viton® seals are standard for compatibility with high octane fuels and additives.
- Hydrodynamic design minimizes pressure drop for high flow rates.
- Stainless steel internal components.
- Top mounting for hose interlock.
- Mounting flange meets 4" TTMA specification.



VARIANTS

PART NO.	DESCRIPTION	SEAL	WEIGHT
F5000-001	4" Adapter, Aluminum	Viton®	7.8 lbs.
F5000-002	4" Adapter, Aluminum	PTFE	7.8 lbs.



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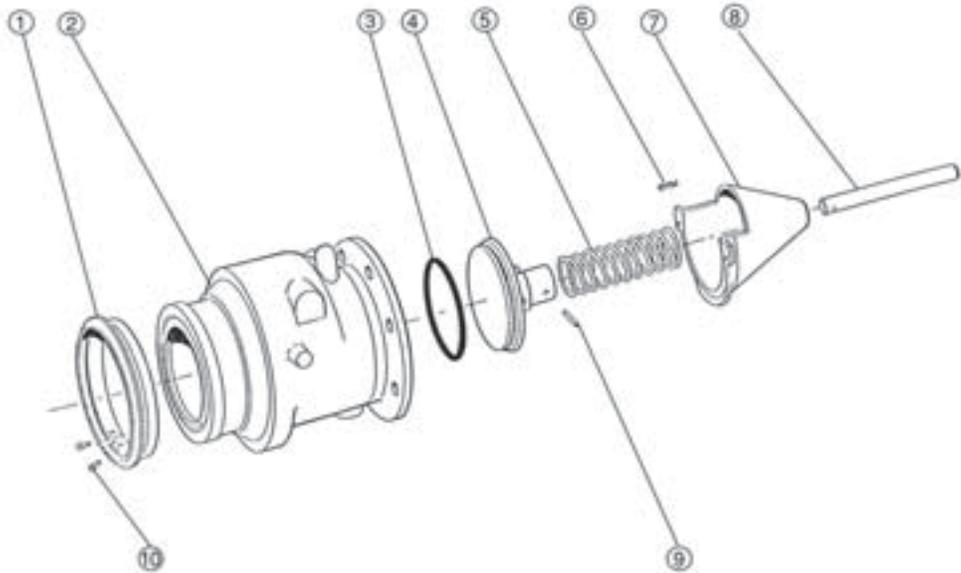
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F5000

API Adapter

DESCRIPTION AND PART NUMBERS



SPECIFICATIONS

REF	DESCRIPTION	PART NO. F5000-001	PART NO. F5000-002	QTY
1	Nose Ring	619323	619323	1
2	Body	619351	619351	1
3	O-Ring	850027	619410	1
4	Poppet	619348	619348	1
5	Spring	619454	619454	1
6	Hair Pin Clip	560489	560489	2
7	Cone	619308	619308	1
8	Stem	619309	619309	1
9	Roll Pin	619311	619311	1
10	Screw M5 C'sk	619370	619370	2

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F5001

API Adapter, Openable

FEATURES AND BENEFITS

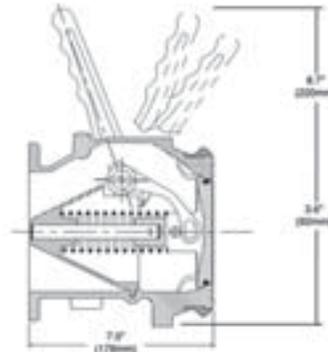
API adapter with a one piece body, hard anodized replaceable nose ring and flat bottom.

- All running surfaces are bushed for smooth operation and extended life.
- Hard anodized replaceable nose ring that can be indexed through four positions for extended life.
- Nose ring can be rotated without draining the line.
- Flat bottom of valve body ensures complete product drainage and minimizes contamination.
- Two stage fixed aluminum lever gives positive indication of valve position.
- Conforms to API RP1004 for total compatibility with API couplers.
- Lightweight die cast aluminum construction for increased payloads with strength.
- Viton® seals are standard for compatibility with high octane fuels and additives.
- Hydrodynamic design minimizes pressure drop for high flow rates.
- Stainless steel internal components.
- Top mounting for hose interlock.
- Mounting flange meets 4" TTMA specification.



VARIANTS

PART NO.	DESCRIPTION	SEAL	WEIGHT
F5001-001	4" Adapter, Aluminum	Viton®	9.7 lbs.
F5001-002	4" Adapter, Aluminum	PTFE	9.7 lbs.



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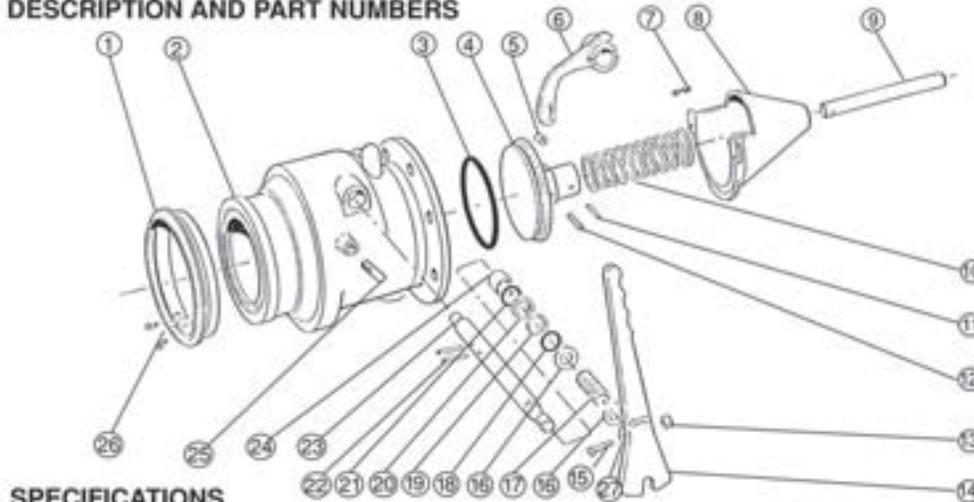
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F5001

API Adapter, Openable

DESCRIPTION AND PART NUMBERS



SPECIFICATIONS

REF	DESCRIPTION	PART NO.		QTY
		F5001-001	F5001-002	
		VITON	PTFE	
1	Nose Ring	619323	619323	1
2	Body	619350	619350	1
3	O-Ring	850027	619410	1
4	Poppet	619348	619348	1
5	Bearing Roller	409436	409436	1
6	Cam	619312	619312	1
7	Hair Pin Clip	560489	560489	2
8	Deflector Cone	619308	619308	1
9	Stem	619309	619309	1
10	Compression Spring	619454	619454	1
11	Roll Pin	619311	619311	1
12	Bearing Pin	563161	563161	1
13	Nut	564277	564277	1
14	Lever	619314	619314	1
15	Screw	564278	564278	1
16	Washer Nylon	564275	564275	2
17	Spring	564273	564273	1
18	O-Ring	561320	561320	1
19	Retaining Ring	408169	408169	1
20	Spacer	408167	408167	1
21	O-Ring	407433	577191	1
22	Roll Pin	561852	561852	2
23	Shaft	619316	619316	1
24	Bearing	409443	409443	1
25	Stud	619313	619313	1
26	Screw M5 C'sk	619370	619370	2

SERVICE KITS

PART NO.	DESCRIPTION
619504	Service Kit
619506	Nose Ring Kit
619636	Lever Kit
619927	Poppet Seal Kit
670085	Lever & Shaft Kit

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F5002

API Adapter, Openable with Liquid Indicator

FEATURES AND BENEFITS

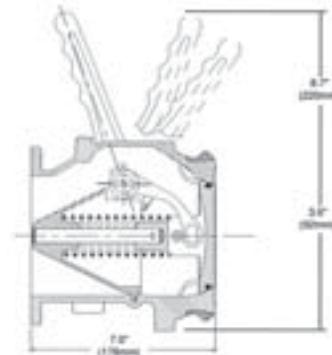
API adapter with a one piece body, hard anodized replaceable nose ring and flat bottom.

- All running surfaces are bushed for smoother operation and extended life.
- Hard anodized replaceable nose ring that can be indexed through four positions for extended life.
- Flat bottom of valve body ensures complete product drainage and minimizes contamination.
- Product sight glass fitted at lowest point of valve for visual check of product in pipework.
- Two stage fixed aluminum lever gives positive indication of valve position.
- Conforms to API RP1004 for total compatibility with API couplers.
- Light weight die cast aluminum construction for increased payloads with strength.
- Viton® seals are standard for compatibility with high octane fuels and additives.
- Hydrodynamic design minimizes pressure drop for high flow rates.
- Stainless steel internal components.
- Top mounting for hose interlock.
- Dryline ready for proposed future regulation.



VARIANTS

PART NO.	DESCRIPTION	SEAL	WEIGHT
F5002-041	4" Adapter, Aluminum	Viton®	9.8 lbs.
F5002-041	4" Adapter, Aluminum	PTFE	9.8 lbs.



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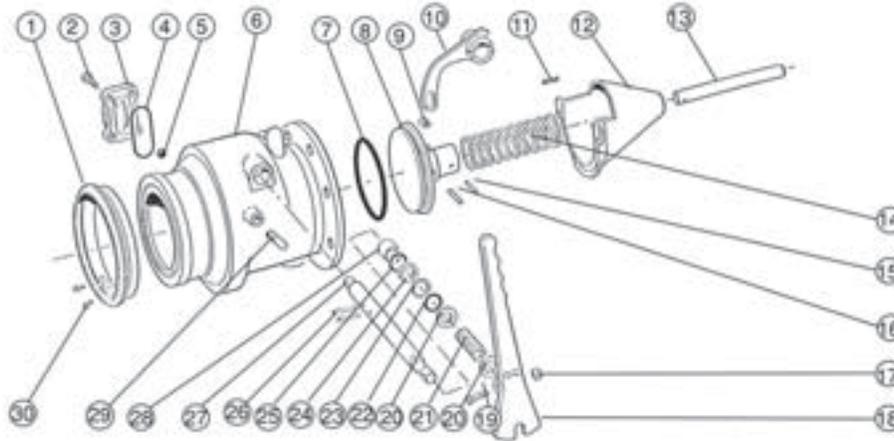
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F5002

API Adapter, Openable with Liquid Indicator

DESCRIPTION AND PART NUMBERS



SPECIFICATIONS

REF	DESCRIPTION	PART NO. F5002-001 VITON	PART NO. F5002-002 PTFE	QTY	REF	DESCRIPTION	PART NO. F5002-001 VITON	PART NO. F5002-002 PTFE	QTY
1	Nose Ring	619323	619323	1	21	Spring	564273	564273	1
2	Screw	602747	602747	4	22	O-Ring	561320	561320	1
3	Sight Glass	618148	618148	1	23	Retaining Ring	408169	408169	1
4	O-Ring	577105	577253	1	24	Spacer	408167	408167	1
5	Hollow Ball	603602	603602	1	25	O-Ring	407433	577191	1
6	Body	619349	619349	1	26	Roll Pin	561852	561852	2
7	O-Ring	850027	619410	1	27	Shaft	619316	619316	1
8	Poppet	619327	619327	1	28	Bearing	409443	409443	1
9	Bearing Roller	409436	409436	1	29	Stud	619313	619313	1
10	Cam	619328	619328	1	30	Screw M5 C'sk	619370	619370	2
11	Hair Pin Clip	560489	560489	2	N/S	Washer M6	616399	616399	4
12	Deflector Cone	619308	619308	1					
13	Stem	619309	619309	1					
14	Spring	619454	619454	1					
15	Roll Pin	619311	619311	1					
16	Bearing Pin	563161	563161	1					
17	Nut	564277	564277	1					
18	Lever	619314	619314	1					
19	Screw	564278	564278	1					
20	Washer Nylon	564275	564275	2					

SERVICE KITS

PART NO.	DESCRIPTION
619499	Sight Glass Kit
619504	Service Kit
619506	Nose Ring Kit
619636	Lever Kit
619927	Poppet Seal Kit

Note:
This Parts Breakdown does not cover the F5002-041 Series of API Adaptor.



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F-500

Bottom Loading Adapters

Tank Trailer/Truck Dry Disconnect

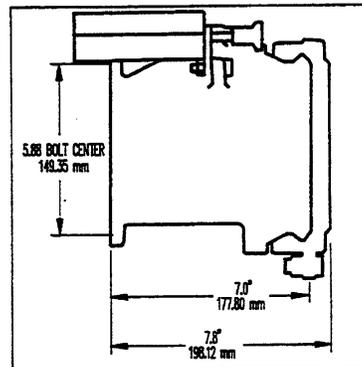
Designed and Built in Accordance with A.P.I. RP-1004

F-500

One-Piece API Adapter

FEATURES AND BENEFITS

- One piece, cast aluminum body, hard coat anodized to reduce wear and corrosion.
- Designed for loading but may be used for unloading by attaching F-456 Adapter opener, see API Accessories.
- Flat bottom design prevents product from being trapped in adapter.
- Inlet end is 4" TTMA flange 5 $\frac{1}{8}$ " diameter bolt circle, 8- $\frac{7}{16}$ " diameter holes.
- Mounting lugs for installation of brake interlock valve, F-527, see API Accessories.
- Available with and without dust cap, F-499, see Accessories.



Part Number	Variants	Weights
F-500-001	Adapter, Viton seals w/dust cap	9.75 lbs - 4.42 kg
F-500-003	Adapter, Viton seals w/o dust cap	7.25 lbs - 3.89 kg
F-500-004	Adapter, Teflon seals w/dust cap	9.75 lbs - 4.40 kg
F-500-006	Adapter, Teflon seals w/o dust cap	7.25 lbs - 3.29 kg

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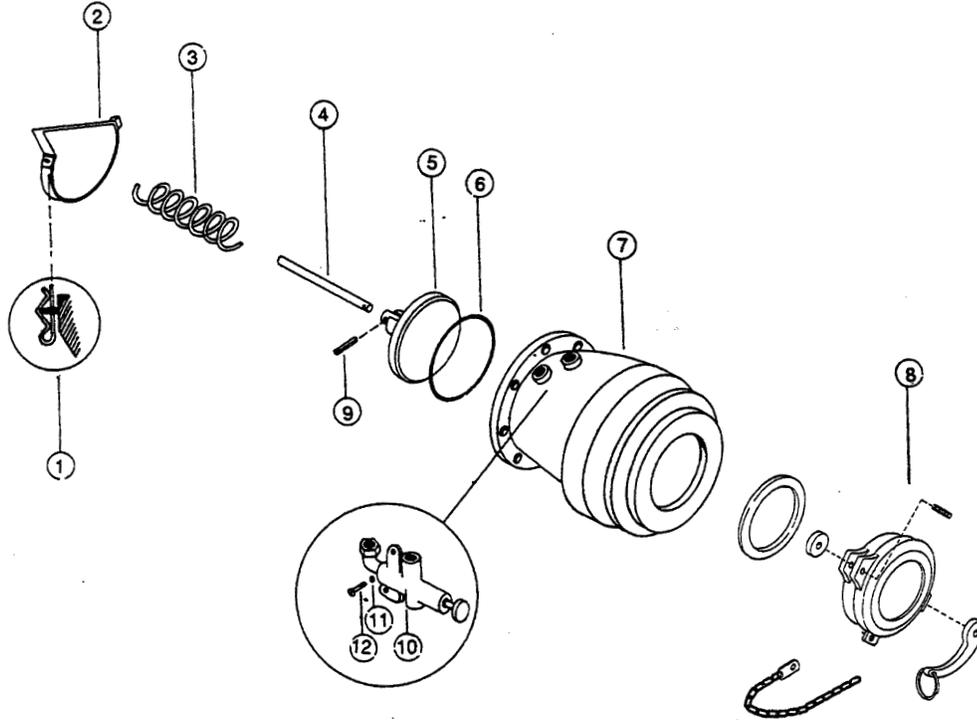
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REF.	DESCRIPTION	PART NUMBER						REQ'D	MATL
		F500-001	F500-002	F500-003	F500-004	F500-005	F500-006		
1	Hair Pin Clip	560489	560489	560489	560963	560963	560963	1	Stl.
2	Cone	560946	560946	560946	560946	560946	560946	1	Alum.
3	Spring	560614	560614	560614	560955	560955	560955	1	S.S.
4	Stem	409433	409433	409433	409433	409433	409433	1	Alum.
5	Poppet	409430	409430	409430	560956	560956	560956	1	Alum.
6	O-Ring	408061	408061	408061	560961	560961	560961	1	Viton
7	Body	409427	409427	409427	560957	560957	560957	1	Alum.
8	Dust Cap	F-499-001	F-499-001	—	F-499-001	F-499-001	—	1	—
9	Roll Pin	470079	470079	470049	470079	470079	470079	1	S.S.
10	Air Valve	—	F-527-001	—	—	F-527-001	—	1	—
11	Lockwasher	—	403107	—	—	403107	—	2	Stl.
12	Screw	—	470104	—	—	470104	—	2	Stl.

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F-501

Bottom Loading Adapters

Tank Trailer/Truck Dry Disconnect

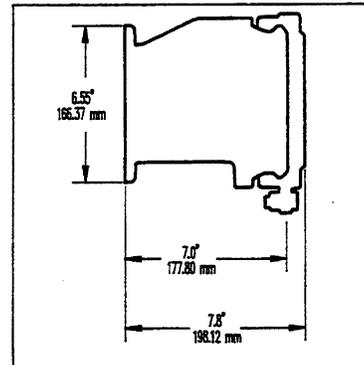
Designed and Built in Accordance with A.P.I. RP-1004

F-501

One-Piece API Openable Adapter

FEATURES AND BENEFITS

- One piece, cast aluminum body, hard coat anodized to reduce wear and corrosion.
- Designed for loading and unloading through the same fitting.
- Flat bottom design prevents product from being trapped in adapter.
- Piping connection is 4" TTMA flange with 5½" diameter bolt circle and 8-7/16" diameter holes.
- Mounting lugs for installation of brake interlock valve, F-527, see API accessories.
- Shaft is stainless steel.
- Handle is ductile iron, with baked on emeralon finish to eliminate corrosion.
- Available with and without dust cap F-499. See API accessories.
- Product drop from adapter is hassle-free with use of F-459 gravity drop adapter. See API accessories.



Part Number	Variants	Weights
F-501-001	Adapter, viton seals, dust cap	12.50 lbs - 5.67 kg
F-501-003	Adapter, viton seals, less cap	9.75 lbs - 4.42 kg
F-501-004	Adapter, teflon seals, dust cap	12.50 lbs - 5.67 kg

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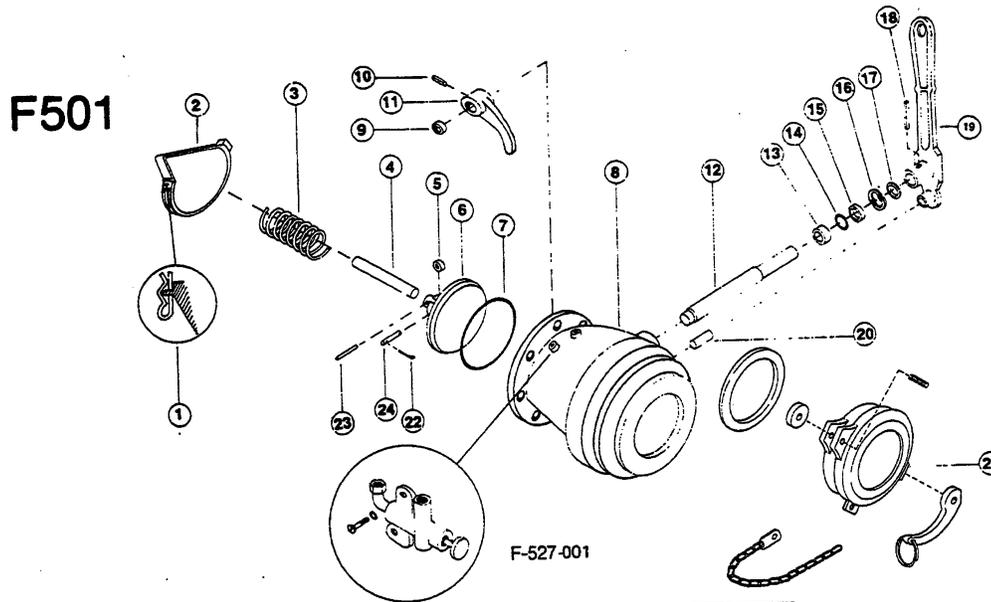
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REF.	DESCRIPTION	PART NUMBER			REQ'D.	MAT'L.
		VITON		TEFLON		
		F501-001	F501-003	F501-004		
	API OPENABLE ADAPTER					
1	Hair Pin Clip	560489	560489	560963	2	Stl.
2	Cone	560946	560946	560946	1	Alum.
3	Spring	560614	560614	560955	1	S.S.
4	Stem	409433	409433	409433	1	Alum.
5	Bearing	409436	409436	409760	1	Stl.
6	Poppet	409430	409430	560956	1	Alum.
7	O'Ring	408061	408061	560961	1	Vit./Telf.
8	Body	409428	409428	560958	1	Alum.
9	Small Bearing	409438	409438	409438	1	Nylon
10	Roll Pin	408635	408635	408635	1	S.S.
11	Cam	409441	409441	409441	1	S.S.
12	Shaft	409439	409439	560962	1	Alum.
13	Large Bearing	409443	409443	409443	1	Nylon
14	O-Ring	407433	407433	409031	1	Vit./Telf.
15	Spacer	408167	408167	408167	1	S.S.
16	Retaining Ring	408169	408169	408169	1	S.S.
17	O-Ring	561320	561320	561320	1	Buna
18	Roll Pin	409829	409829	409829	1	S.S.
19	Lever Assembly	491571	491571	491571	1	—
20	Stud	408746	408746	408746	1	Stl.
21	Dust Cap	F-499-001	—	F-499-001	1	—
22	Cotter Pin	470039	470039	470039	2	S.S.
23	Bearing Pin	409437	409437	409437	1	S.S.
24	Roll Pin	470079	470079	409829	1	S.S.

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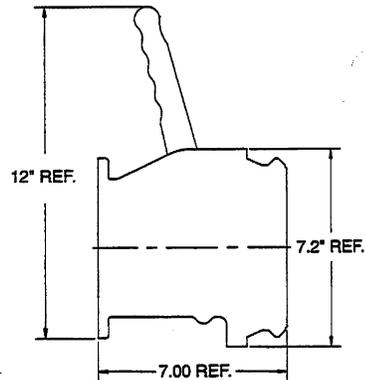
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F502 (Patent Pending) **Two-piece API Openable Adapter**

EMCO[®]
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FEATURES AND BENEFITS

- Light one-piece body.
- Removable, rotatable, hardened nose ring accommodates "head" rotation for longer wear. Nose ring can be rotated with product flooded lines.
- Liquid Presence Indicator visually alerts personnel of liquid presence in adapter.
- Flat bottom design minimizes trapped product or contamination.
- 4" TTMA mounting flange.
- Tapped lugs for mounting of Air Interlock Valve, F527 "Classic", or F537. (See API Accessories.)
- Designed to meet RP-1004.
- Aluminum ergonomically designed operating lever provides ease of use and reliability.
- Dust Cap (F499) and Drop Adapters (F459) available. (See API Accessories.)



PART NUMBER	DESCRIPTION	WEIGHT
F502-001	Viton Seals	8.5 lbs - 3.63 kg
F502-003	Viton Seals, Removable Handle	8.5 lbs - 3.63 kg

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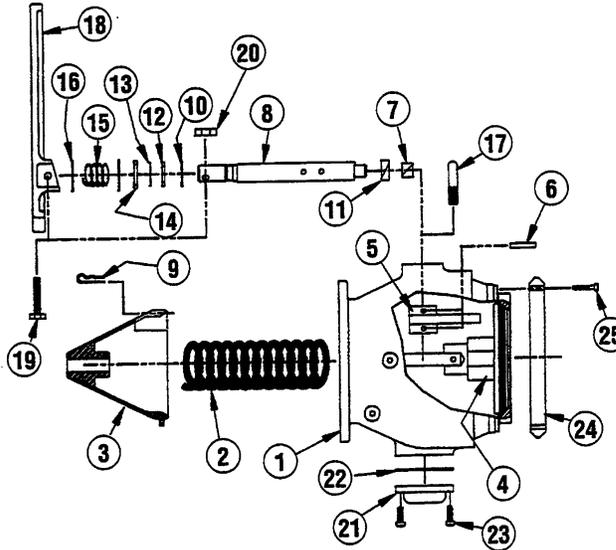
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F502 (Patent Pending) Two-piece API Openable Adapter

(Continued from page 5)

DESCRIPTION AND PART NUMBERS



REF	DESCRIPTION	PART #	REQ'D	MATERIAL
1	Body	566154	1	Aluminum
2	Compression Spring	560614	1	Steel
3	Cone	560946	1	Aluminum
4	Poppet Assembly	492734	1	Viton
5	Cam	409441	1	Stainless Steel
6	Roll Pin	561852	2	Stainless Steel
7	Small Bearing	409438	1	Nylon
8	Shaft	564385	1	Aluminum
9	Hair Pin Clip	560489	2	Steel
10	Seal	407433	1	Viton
11	Large Bearing	409443	1	Nylon
12	Spacer	408167	1	Stainless Steel
13	Retaining Ring	408169	1	Stainless Steel
14	O-ring	561320	1	Buna
15	Spring	564273	1	Stainless Steel
16	Washer	564275	2	Nylon
17	Stud	564280	1	Stainless Steel
18	Lever	565617	1	Nylon
19	Screw	564278	1	Stainless Steel
20	Nut	564277	1	Stainless Steel
21	Sight Glass	618148	1	—
22	O-ring	577105	1	Viton
23	Screw	566087	4	Stainless Steel
24	Ring	566124	1	Aluminum
25	Screw	566158	8	Stainless Steel

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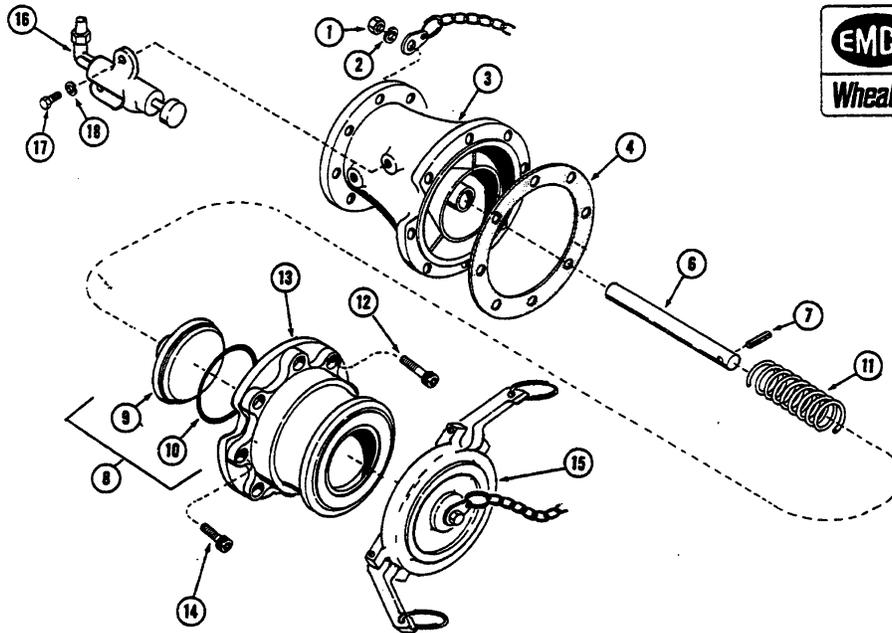
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F450



*VALVE OBSOLETE *

REF.	DESCRIPTION	VITON		TEFLON		VITON		REQ'D.
		PART NUMBER						
		F450-001	F450-016	F450-018	F450-019	F450-901	F450-904	
1	Nut	403150	403150	403150	403150	—	403150	1
2	Lockwasher	405767	405767	405767	405767	—	405767	1
3	Body	403150	409359	491303	491303	491303	491303	1
4	Gasket	407985	407985	407985	407985	407985	407985	1
5	Poppet Ass'y.	—	—	491560	491560	—	—	1
6	Poppet Stem	408025	408025	—	—	408025	408025	1
7	Roll Pin	470132	470132	—	—	470132	470132	1
8	Poppet Ass'y.	—	—	491560	491560	—	—	1
9	O-Ring	408061	408061	560961	560961	408061	408061	1
10	Poppet Disc	408028	409363	409522	409522	408028	408028	1
11	Spring	408636	408636	408636	408636	408636	408636	1
12	Socket Hd. Capscrew	408029	408029	408029	408029	408029	408029	7
13	Adapter Flange	407984	409361	407984	407984	407984	407984	1
14	Socket Hd. Capscrew	408032	408032	408032	408032	408032	408032	1
15	Dust Cap	491234	491234	491234	491234	—	491234	1
16	Air Valve	—	—	491657	—	—	—	1
17	Screw	—	—	470104	—	—	—	2
18	Lockwasher	—	—	409107	—	—	—	2

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F-552 “Y” Valve

Bottom Loading Adapter/Faucet

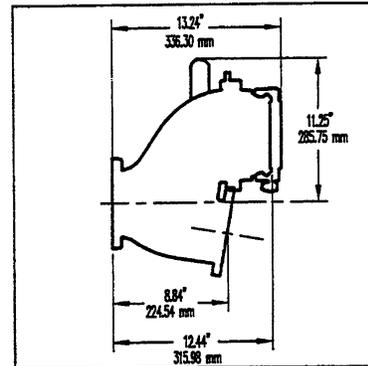
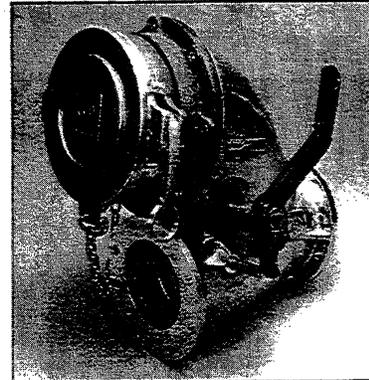
Tank Trailer/Truck Dry Disconnect

Designed and Built in Accordance with A.P.I. RP-1004

F-552 “Y” Valve

FEATURES AND BENEFITS

- The most efficient means of bottom loading/unloading.
- Patented design.
- Two-piece all aluminum body. API head is hard coated to reduce wear and corrosion.
- Product loading is accomplished via the API head, and unloading via the bottom faucet configuration.
- Best unrestricted unloading since faucet disc is not in product flow path.
- Piping connection and faucet outlet is 4" TTMA flange with 5½" diameter bolt circle and 8-7/16" diameter bolt holes.
- Faucet outlet hose connector, F-557 available, see Accessories.
- Mounting lugs for installation of brake interlock valve, F-527, see API Accessories.
- Handle is ductile iron, with baked on emeralon to eliminate corrosion.
- Dust cap, F-499, is standard.



Part Number	Variants	Weights
F-552-023	Viton, w/Dust Cap	23.50 lbs - 10.66 kg
F-552-024	Buna, w/Dust Cap	23.50 lbs - 10.66 kg
F-552-029	Teflon, w/Dust Cap	23.75 lbs - 10.77 kg

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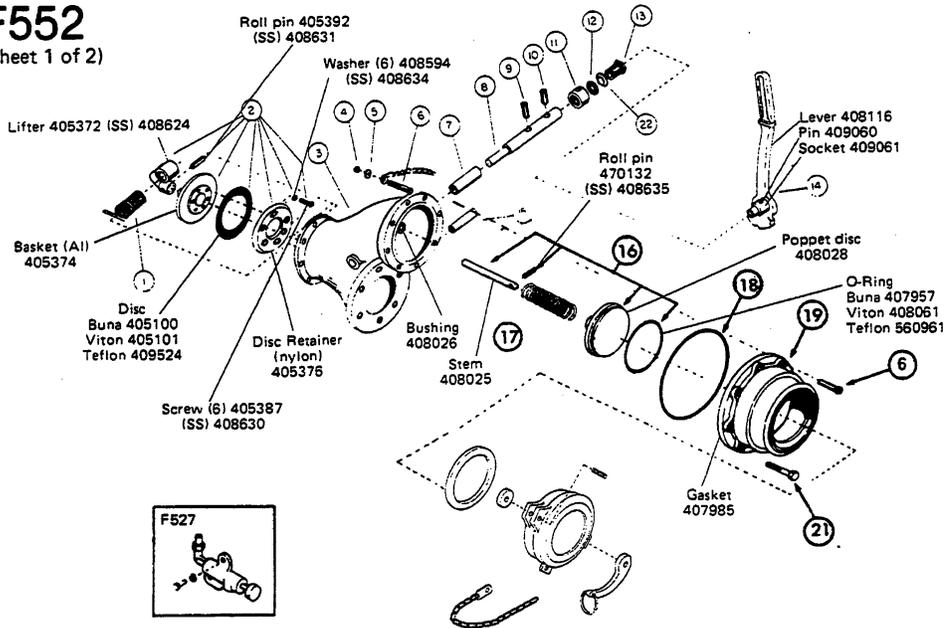
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F552 (Sheet 1 of 2)



REF.	DESCRIPTION	VITON	BUNA	TEFLON	REQ'D
		PART NUMBER			
	COMBINATION TANK VALVE WITH API ADAPTER	F552-023	F552-024	F0552-029	
1	Spring	405378	405378	405378	1
2	Lifter Assy.	491438	491440	491561	1
3	Body Assy.	491899	491899	491900	1
4	Nut	406234	406234	406234	1
5	Lockwasher	405767	405767	405767	1
6	Screw	408032	408032	408032	1
7	Sleeve	405398	405398	405398	1
8	Lifter Stem	405377	405377	408625	1
9	Roll Pin	405386	405386	408629	1
10	Roll Pin	404868	404868	404868	1
11	Drive Bushing	405379	405379	408626	1
12	O-Ring	408054	401905	409732 Packing 409731 Nut	
13	Stuffing Box	408627	408627	409730	1
14	Lever Assy.	F0616-005	F0616-005	F0616-005	1
15	Stud	405383	405383	405383	1
16	Poppet Assy.	491441	491442	491560	1
17	Spring	560614	560614	408636	1
18	O-Ring	409638	409708	409639	1
19	Adapter	407984	407984	560634	1
20	API Dust Cap	F-499-001	F-499-001	F-499-001	1
21	Screw	408029	408029	408029	7
22	Washer	409553	409553	409553	1

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