



API COUPLER

API Bottom Loading Coupler & Adaptor

TECHNICAL DATA

MAXIMUM WORKING PRESSURE	75Psi/5Bar
MAXIMUM FLOW RATE	600GPM/135m ³ /H
TEMPERATURE RANGE	-30°~+80°
PRESSURE DIFFERENCE	2~5Psi

APPLICATION

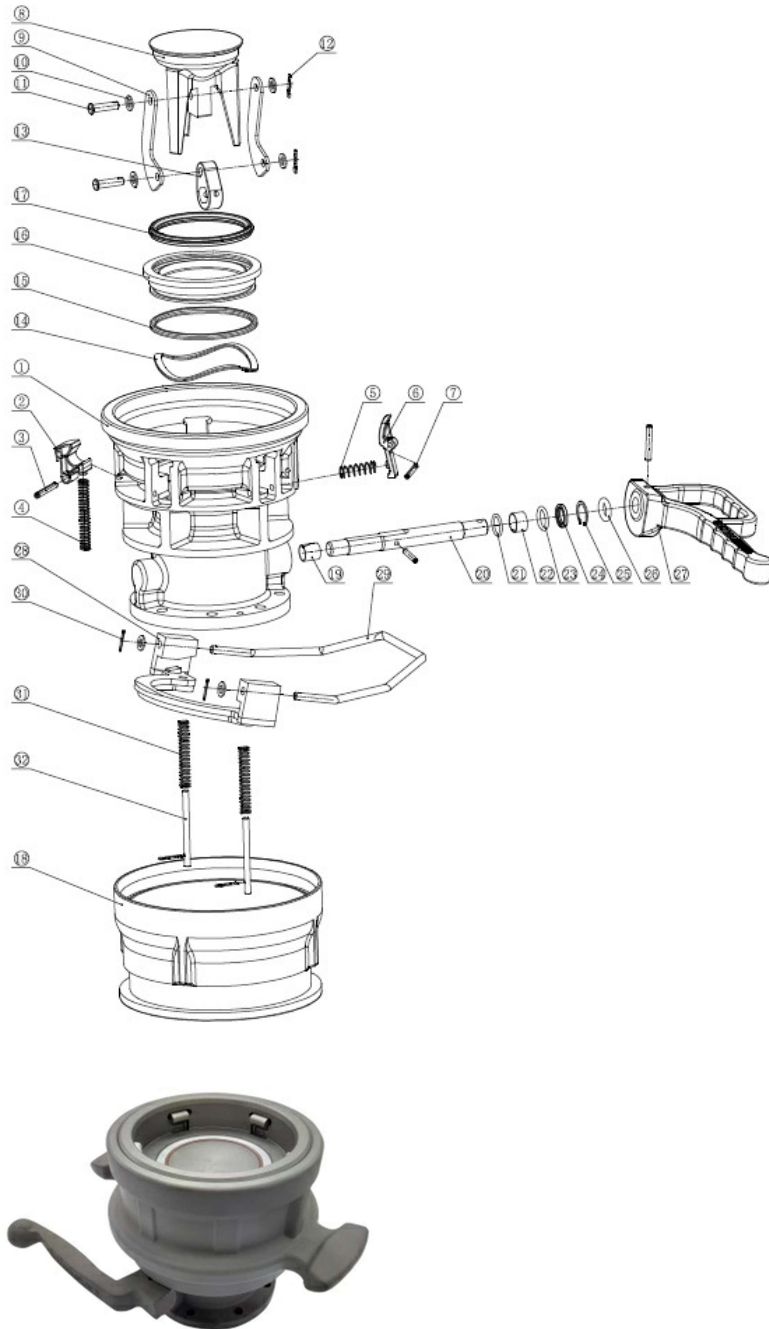
These drip-less bottom loading couplers are a proven performer at major oil terminals worldwide. This coupler mates with all 4" bottom loading adaptors built in accordance with API RP-1004 requirements to significantly reduce liquid loss at disconnect. Its unique design ensures easy alignment, tight connection and resists side forces during loading. This coupler is rated for 75 psi and is available in 4" only.

BENEFIT AND FEATURES

- The coupler is used widely and with the special design gasket to resist low temperature, damage and light fuel.
- With this Interlock Design when the coupler is in the idle position, it will lock itself.
- The 5 Cam Lock Design ensures the leak tight connection with the valve at the bottom of the tanker and efficiently protect from the axial forces.
- The sealing design structure, avoids the danger of sealing gasket bellowing during quick filling.
- All the aluminium parts are hard anodized. All other connecting parts are stainless steel.
- Valved adaptor comes with or without a handle and sight glass

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API Coupler Parts

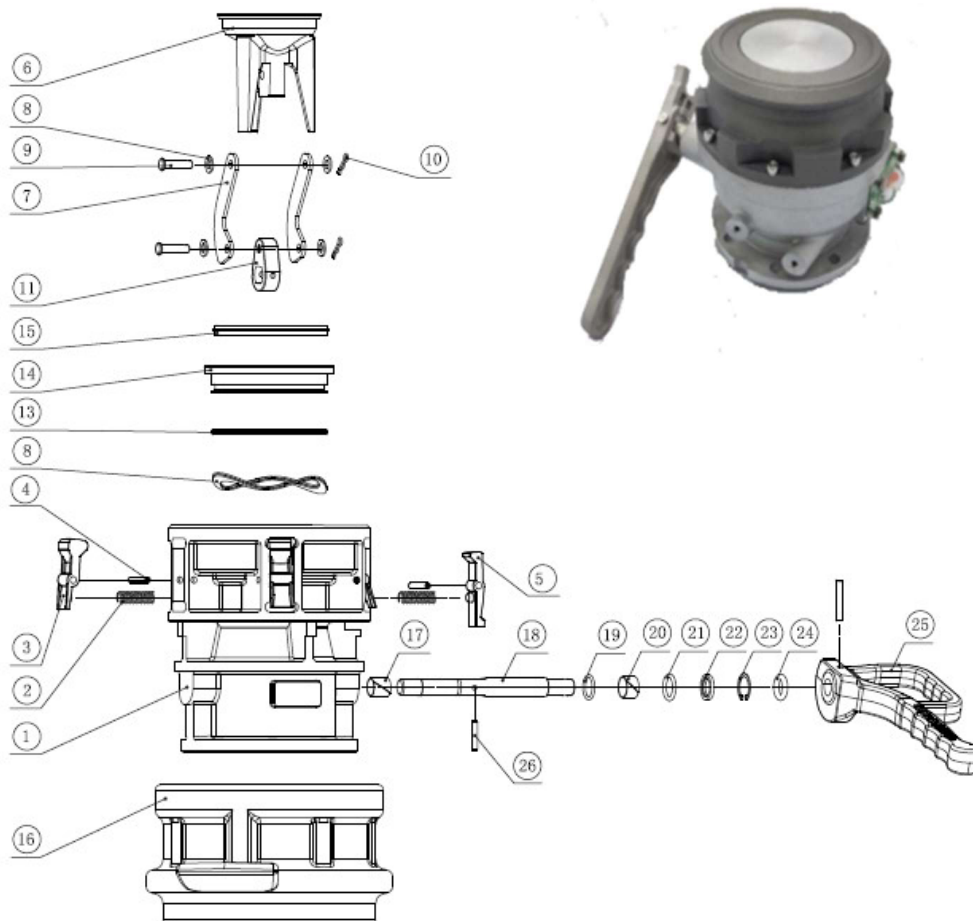


NO.	PART NAME	QTY	MATERIAL
1	Body	1	A356 T6
2	Cam	5	SS316
3	Spirol Pin	5	SS304
4	Cam spring	5	SS304
5	Interlock Spring	1	SS304
6	Interlock	1	SS316
7	Knurling Pin	1	SS304
8	Poppet	1	A356 T6
9	High Pressure Link	2	17-4 PH
10	Flat washer	4	SS304
11	Clevis pin	2	SS304
12	Safety pin	4	SS304
13	Drive Link	1	SS316
14	Wave washer	1	17-7 PH
15	Nose seal	1	Viton
16	Cylinder	1	6061T6
17	Cylinder seal	1	Viton
18	Locking sleeve	1	A356 T6
19	Shaft end bearing	1	PTFE
20	Shaft	1	17-4 PH
21	O ring	1	Viton
22	Shaft head bearing	1	PTFE
23	O ring	1	Viton
24	Shaft washer	1	PTFE
25	Ring	1	65Mn
26	O ring	1	Viton
27	Operating Handle	1	A356 T6
28	Locking hold ring	1	A356 T6
29	Retreating wrench	1	SS304
30	Split pin	2	SS304
31	Retreating wrench spring	2	SS304
32	Retreating wrench spring mandrel	2	SS304

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API Adaptor Parts

PART NO	DESCRIPTION
APIV-HSG	API Valve with Handle & Sight Glass
API-LO	API Valve Loading Only



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API Adaptor Parts

NO.	PART NAME	QTY	MATERIAL
1	Manual locking sleeve	1	A356-T6
2	Manual locking API coupler body	1	A356-T6
3	Cam spring	6	SS304
4	Cam	5	SS316
5	Drive Link	1	SS304
6	Clevis pin	2	SS304
7	High pressure link	2	SS304
8	Wave washer	1	SS316L
9	Poppet	1	A356-T6
10	Nose seal	1	Viton
11	Cylinder seal	1	Viton
12	Cylinder	1	A356-T6
13	Split pin	2	SS304
14	Flat washer M8	4	SS304
15	Spirol Pin ($\phi 6$ - $\phi 6.4$)	6	SS304
16	Interlok	1	SS316
17	Shaft tail bearding	1	PTFE
18	Shaft	1	SS316L
19	O ring ($\phi 19.05 \times 2.65$)	1	Viton
20	Shaft Head bearing	1	PTFE
21	O ring ($\phi 19.05 \times 3.55$)	1	Viton
22	Shaft head washer	1	PTFE
23	Ring	1	65Mn
24	O ring ($\phi 15 \times 5.3$)	1	Viton
25	Operating Handle	1	A356-T6
26	Shaft pin ($\phi 5$ - $\phi 5.4$)	1	SS304