

Fishing Magnets & Magnet Charger

FISHING MAGNETS AND MAGNET CHARGER

Overview

The Fishing Magnet is designed to retrieve small metal, oddly-shaped objects such as milling shavings, bit cones, cutters, bearings, slips, tong pins, and hand tools from the bottom of the well bore. Typically, these objects are the result of bit failures, an accumulation of mill cuttings, or simply accidental droppings of un-millable objects. In almost all of these cases, the fish cannot be engaged in the normal manner. Fishing magnets successfully remove these objects from the hole. The tool's design features generous circulation ports that wash away cut-tings and other debris that might interfere with or prevent contact with the magnet. A variety of guides are available to accommodate any retrieval situation.

Construction

The Fishing Magnet Assembly consists of a body, integral housing, integral pole plate, magnet element, and standard flush guide.

The body is manufactured from high strength alloy steel. It has a tool joint pin top connection and generous circulation ports.

The magnet element is the most efficient and powerful permanent magnet available. The magnet can be recharged if necessary.

The magnet body, housing, and pole plate are threaded and welded together during assembly with the magnet element in place.

The standard flush bottom guide is threaded and easily removed. Lipped guides and mill guides are also available.

Operation

Fishing Magnets are usually run on tubing or drill pipe, but can be run on wireline. Wireline adapters are available. The Fishing Magnet is made up to the bottom of the fishing string and lowered into the hole to within six to twelve inches of the fish. Circulate to wash the fish. Reduce circulation and lower the fishing magnet to the fish. Slowly rotate to ensure positive contact. Discontinue circulation and lift the fishing magnet from the hole.

Optional Accessories

Guides

A flush guide is standard. Lipped guides and mill guides are also available. The lipped guide centralizes the fish to assure contact with the magnet. The mill guide enables milling of any soft formation or settling to free debris at the bottom of the hole.

Keepers

While magnets should not lose their strength during normal use, storing the magnet in the vicinity of an electric motor or bringing magnets too close to each other can adversely affect their charge. Keepers are recommended when storing magnets to reduce the attraction of miscellaneous metal objects or particles. A keeper is required for shipment via air freight.



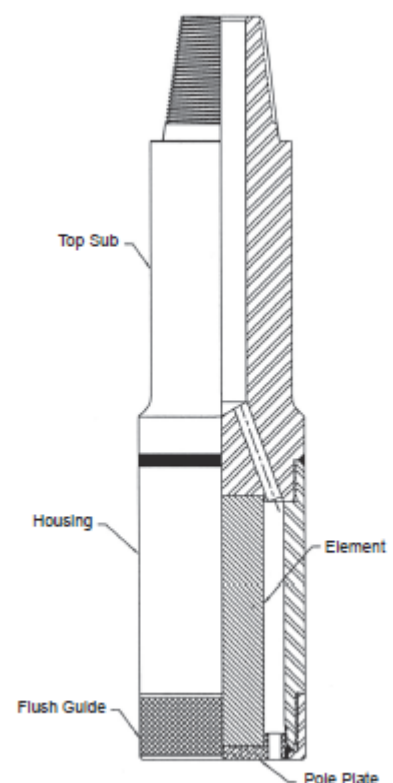
Magnet Chargers



Recharging is quick and easy with our state-of-the-art control console. There is no limit to the number of times a magnet can be recharged. Magnet Chargers ensure maximum charging efficiencies with ease of operation and long-life durability.

When ordering, please specify:

- Name and number of assembly
- Size – O.D.
- Top connection, if other than standard



Fishing Magnets & Magnet Charger

Hole Size		1-1/4 to 2	1-5/8 to 2-1/2	2 to 2-3/4	2-3/8 to 3-1/4	2-3/4 to 3-5/8	3 to 3-3/4	3-1/4 to 4-1/8
OD of Body Top Connection		1 5/8-11 UNC	1-1/4 5/8 SR	1-1/2 5/8 SR	1-3/4 3/4 SR	2-1/4 3/4 SR	2-1/2 3/4 SR	3 2-3/8 Tbg
Approx Pull in LBS		4	6	9	12	20	65	70
Complete Assembly	Bowen No.	306-100 32060	306-125 32080	306-150 32100	306-175 32120	306-225 32150	306-250 32170	306-300 32180
Body	Bowen No.	...	V1000 32081	V1001 32101	V1002 32121	V1003 32151	V1004 32171	V1005 32181
Housing	Bowen No.	V20005 32062	V2000 32082	V2001 32102	V2002 32122	V2003 32152	V2004 32172	V2005 32182
Pole Plate	Bowen No.	V30005 32063	V3000 32083	V3001 32103	V3002 32123	V3003 32153	V3004 32173	V3005 32183
Magnetic Element	Bowen No.	V4000 32064	V4000 32084	V4001 32104	V4002 32124	V4003 32154	V4004 32174	V4005 32184
Flush Guide	Bowen No.	...	V6000 32085	V6001 32105...	V6002 32125	V6003 32155	V6004 32175	V6005 32185
Lifting Cap	Bowen No.	...	...	...	...	...	...	...

Optional Components

Cut-Lipped Guide		-	V6000	V6001	V6002	V6003	V6004	V6005
Mill Guide	Bowen No.	-	32085	32105	32125	32155	32175	32185
Adapter – 5/8" Sucker Rod	Bowen No.	-	V6000	V6001	V6002	V6003	V6004	V6005
Adapter – 3/4" Sucker Rod	Bowen No.	-	32085	32105	32125	32155	32175	32185
Keeper	Bowen No.	-	...	...	...	...	...	...
	Bowen No.	V90005	V9000	V9001	V9002	V9003	V9004	V9005
	Bowen No.	-	66005	66008	74731	74732	66014	71716

Special Notes:

(1) Guides left oversized are extra charge. Magnets shipped via air freight must include a Keeper.

When ordering, please specify:

- Name and number of assembly
- Size – O.D.
- Top connection, if other than standard

Recommended Accessories

- 1 x Lipped Guide
- 1 x Mill Guide

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Hole Size		4 to 4-1/4	4-1/4 to 4-1/2	4-1/2 to 5	5-1/8 to 5-1/2	5-5/8 to 6	6-1/8 to 6-1/2	6-1/8 to 6-1/2
OD of Body		3-1/4	3-1/2	4	4-1/2	5	5-1/2	5-3/4
Top Connection		2-3/8 Tbg	2-3/8 API Reg	2-3/8 API Reg 115	2-7/8 API Reg 160	2-7/8 API Reg 200	3-1/2 API Reg 250	3-1/2 API Reg 250
Approx Pull in LBS		85	90					
Complete Assembly		306-325	306-350	306-400	306-450	306-500	306-550	306-575
	Bowen No.	32190	32210	32230	32240	32260	32270	32280
Body		V1006	V1007	V1008	V109	V1010	V1011	V1012
	Bowen No.	32191	32211	32231	32241	32261	32271	32281
Housing		V2006	V2007	V2008	V2009	V2010	V2011	V2012
	Bowen No.	32192	32212	32232	32242	32262	32272	32282
Pole Plate		V3006	V3007	V3008	V3009	V3010	V3011	V3012
	Bowen No.	32193	32213	32233	32243	32263	32273	32283
Magnetic Element		V4006	V4007	V4008	V4009	V4010	V4011	V4011
	Bowen No.	32194	32214	32234	32244	32264	32274	32274
Flush Guide		V6006	V6007	V6008	V6009	V6010	V6011	V6012
	Bowen No.	32195	32215	32235	32245	32265	32275	32285
Lifting Cap		...	V8000	V8000	V8001	V8001	V8002	V8002
	Bowen No.	...	2-3/8 API Reg	2-3/8 API Reg	2-7/8 API Reg	2-7/8 API Reg	3-1/2 API Reg	3-1/2 API Reg

Optional Components

Cut-Lipped Guide		V6006	V6007	V6008	V6009	V6010	V6011	V6012
	Bowen No.	32195	32215	32235	32245	32265	32275	32285
Mill Guide		V6006	V6007	V6008	V6009	V6010	V6011	V6012
	Bowen No.	32195	32215	32235	32245	32265	32275	32285
Adapter – 5/8" Sucker Rod		-	-	V5008	V5009	V5009	V5011	V5011
	Bowen No.	-	-	62250	62252	62252	62254	62254
Adapter – 3/4" Sucker Rod		V7005	-	V7008	V7009	V7009	V7011	V7011
	Bowen No.	70513	-	62251	62253	62253	62255	62255
Keeper		V9006	V9007	V9008	V9009	V9010	V9011	V9012
	Bowen No.	66016	66021	66026	66027	66030	66031	74962

Special Notes:

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When ordering, please specify:

- Name and number of assembly
- Size – O.D.
- Top connection, if other than standard

Recommended Accessories

- 1 x Lipped Guide
- 1 x Mill Guide

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Hole Size	6-5/8 to 7-1/2 6	7-5/8 to 8-1/2 7	8-5/8 to 9-3/4 8	9-7/8 to 11-5/8 9	10- 1/ 2 to 11- 7/ 8 5/8	11-3/4 to 13 10-1/2	12-1/4 to 14 11-1/2
OD of Body							
Top Connection	3-1/2 API Reg 250	4-1/2 API Reg 330	4-1/2 API Reg 560	4-1/2 API Reg 680	6-5/8 API Reg 750	6-5/8 API Reg 800	6-5/8 API Reg 800
Approx Pull in LBS							
Complete Assembly	306-600	306-700	306-800	306-900	306- 1000	306- 1050	306-1150
Bowen No.	32290	32300	32310	32330	32340	32350	32370
Body	V1013	V1014	V1015	V1016	V1017	V10018	V1019
Bowen No.	32291	32301	32311	32331	32341	32351	32371
Housing	V2013	V2014	V2015	V2016	V2017	V2018	V2019
Bowen No.	32292	32302	32312	32332	32342	32352	32372
Pole Plate	V3013	V3014	V3015	V3016	V3017	V3017	V3019
Bowen No.	32293	32303	32313	32333	32343	32343	32373
Magnetic Element	V4013	V4014	V4015	V4016	V4017	V4017	V4019
Bowen No.	32294	32304	32314	32334	32344	32344	32374
Flush Guide Lifting	V6013	V6014	V6015	V6016	V6017	V6018	V6019
Bowen No.	32295	32305	32315	32335	32345	32355	32375
Cap	V8002	V8003	V8003	V8003	V8004	V8004	V8004
Bowen No.	3-1/2 API Reg	4-1/2 API Reg	4-1/2 API Reg	4-1/2 API Reg	6-5/8 API Reg	6-5/8 API Reg	6-5/8 API Reg

Optional Components

Cut-Lipped Guide		V6013	V6014	V6015	V6016	V6017	V6018	V6019
Bowen No.		32295	32305	32315	32335	32345	32355	32375
Mill Guide		V6013	V6014	V6015	V6016	V6017	V5018	V6019
Bowen No.		32295	32305	32315	32335	32345	32355	32375
Adapter – 5/8” Sucker Rod		V5011	V5014	V5014	V5014	V5017	V5017	V5017
Bowen No.		62254	62256	62256	62256	62258	62258	62258
Adapter – 3/4” Sucker Rod		V7011	V7014	V7014	V7014	V7017	V7017	V7017
Bowen No.		62255	62257	62257	62257	62259	62259	62259
Keeper		V9013	V9014	V9015	V9016	V9017	V9017	V9019
Bowen No.		66039	56181	66041	66044	66045	66045	66218

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- Size – O.D.
- Top connection, if other than standard

Recommended Accessories

- 1 x Lipped Guide
- 1 x Mill Guide

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Hole Size		15	17	20
OD of Body				
Top Connection		14 6-5/8 API Reg 1,100	16 6-5/8 API Reg 1,100	19 7-5/8 API Reg 1,470
Approx Pull in LBS				
Complete Assembly		306-1400	306-1600	306-1900
	Bowen No.	32380	79183	79189
Body		V1020	V1021	V1022
	Bowen No.	32381	145730	79190
Housing		V2020	V2021	V2022
	Bowen No.	32382	145731	79191
Pole Plate		V3020	V3021	V3022
	Bowen No.	32383	145732	79192
Magnetic Element		V4020	V4020	V4022
	Bowen No.	32384	32384	79193
Flush Guide Lifting		V6020	V6021	V6022
	Bowen No.	32385	79188	79194
Cap		V8004	V8004	V8005
	Bowen No.	6-5/8 API Reg	6-5/8 API Reg	7-5/8 API Reg

Optional Components

Cut-Lipped Guide		V6020	V6021	V6022
	Bowen No.	32385	79188	79194
Mill Guide		V6020	V6021	V6022
	Bowen No.	32385	79188	79194
Adapter – 5/8" Sucker Rod		V7017	...	...
	Bowen No.	62258	...	...
Adapter – 3/4" Sucker Rod		V5017	...	...
	Bowen No.	62258	...	...
Keeper		V9020	V9021	V9022
	Bowen No.	66219	145867	...

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When ordering, please specify:

- Name and number of assembly
- Size – O.D.
- Top connection, if other than standard

Recommended Accessories

- 1 x Lipped Guide
- 1 x Mill Guide