

*Established
1982*



A Pump & Valve Mfg. Company

Engineered for High Performance...

Catalog



Replacements for:

SWECO® • SWACO® • HARRISBURG® • BRANDT® • GEOGRAPH-PIONEER® • DEMCO® • TRI-FLO® • THULE®

★ **HYDROCYCLONES** ★



INTRODUCTION

Gentlemen,

For over twenty years, we have been in the business of manufacturing quality oilfield products. At O'DRILL / MCM, it is our philosophy to manufacture & market quality products, provide dependable service and be competitive in the marketplace.

O'DRILL / MCM manufactures a wide variety of oilfield specialty products namely Hydro-cyclones (all major brands); Cameron Type 'B' & 'C' Reset Relief Valves, Demco & Oteco type Shear Relief Valves & Gate Valves. We also manufacture Baker type Float Valves, Halliburton type Plug Valves; Centrifugal Pumps interchangeable with Mission, Harrisburg, Halco & National Oilwell and all kinds of fluid end parts such as Liners, Pistons, Piston rods, Valves & Seats for the Mud Pump.

We wish to thank you, our existing customers, for your continuous patronage of our products. We invite our prospective customers to give us an opportunity to provide you with competitive pricing on your next enquiry.

You may call us at 1-800-255-6263 or e-mail us at odrillmcm@aol.com.

Sincerely yours,

President

O'DRILL / MCM

E-Mail: salesint@odrillmcm.com

Corporate Office:

11625 Fairmont • Houston, Texas 77035 • Tel: (713) 541-2020 • Fax: (713) 541-9090



★ **DISCLAIMER** ★

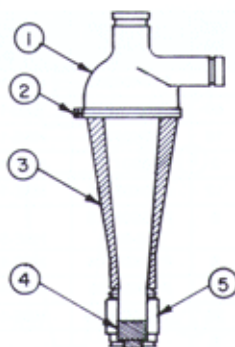
SWECO® • BRANDT® • DEMCO® • HARRISBURG® • TRIFLO® • SWACO® • GEOLOGRAPH-PIONEER®

The above names are Registered trade marks of other companies, O'Drill MCM is in no way affiliated with these companies (In this entire catalog the brand names referred to are for reference purpose only.)

REPLACEMENT for 4" & 5" SWECO® CONES

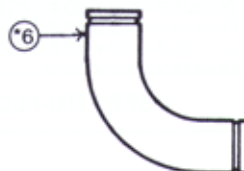


4" SWECO® HYDROCYCLONE

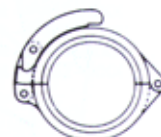


REF	DESCRIPTION	WT. lbs	SWECO® P/N	O'DRILL MCM P/N
1-5	4" Complete Cone	9	PO4K06218	HSE-406-218
1	Fluids Splitter	4	PO4K06203	HSE-406-203
2	Clamp Band S.S.	1	10-593	HSE-184-315
3	Bottom Cone	4	PO4K06213	HSE-406-213
4	Discharge insert (Apex)	0.25	PO4K06204	HSE-406-204
5	Adjust Nut	0.5	PO4K06212	HSE-406-212
*6	Elbow, Overflow (Poly)	1.8	CO4K06300	HSE-018-052
7	2" Victaulic Snaplock Coupling	1.8	-----	M-185-264
8	2" Gasket Only	0.1		M-185-295
9	Gauge, 1/4" NPT (Regular)			M-930-837

*Each 4" cone has a capacity of 50 GPM at 40 PSIG feet pressure.

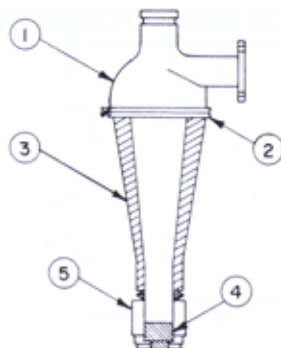


Elbow



Victaulic Clamp

5" SWECO® HYDROCYCLONE



REF	DESCRIPTION	WT. lbs	SWECO® P/N	O'DRILL MCM P/N
1-5	5" Complete Cone	15	PO5K06218	HSE-506-218
1	Fluids Splitter	6	PO5K06203	HSE-506-203
2	Clamp Band S.S.	1	PO5S06213 10-598	HSE-514-629
3	Bottom Cone	7	PO5K06214	HSE-506-214
4	Discharge insert	0.25	PO5K06204	HSE-506-204
5	Adjust Nut	0.5	PO4K06212	HSE-406-212
*6	Elbow, Overflow (Poly)	1.8	CO4K06300	HSE-018-052

Note: Special Metal Re-inforcement placed in the flange and Clamping Area to prevent premature failure.

*Each 5" cone has a capacity of 80 GPM at 50 PSIG feet pressure.

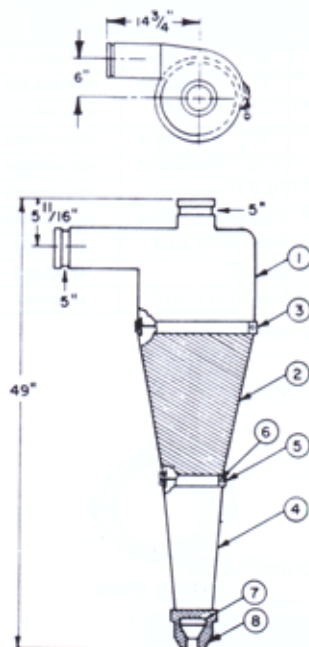
*Available with optional Flange or Victaulic inlet connection. (Please Specify)





REPLACEMENT for 10" SWECO® DESANDER CONE

10" SWECO® DESANDER CONE



REF	DESCRIPTION	WT. lbs	SWECO® P/N	O'DRILL MCM P/N
1-8	Complete 10" Cone	94	P10K06200	HSE-106-200
1	Feed Chamber	60	P10K06207	HSE-106-207
2	Top Cone	18	P10K06208	HSE-106-208
3	10" Clamp Band	2	P10S01101	HSE-100-111
4	Bottom Cone	12	P10K06201	HSE-106-201
5	5" Clamp Band S.S.	Old New	POSS06213 10-598	HSE-514-629
6	Discharge Insert 1.250	8	P10K06204	HSE-106-204
7	Bottom Cone Nut	4	P10K06205	HSE-106-205
Not Shown	Elbow, 5" Grooved	20	CO3CO2009	HSE-106-209
Not Shown	5" Victaulic Clamp W/Seal	9		
Not Shown	Gauge, 1/4" NPT 0-100 PSI (Glycerin filled)			M-00-249

MILCHEM - TOTCO

SEE "TRI-FLOW" CHART - PAGE# 8.

BAROID

CALL O'DRILL SALES DEPT. FOR MORE INFORMATION.

*If you want to Economize
O'Drillize !!!*

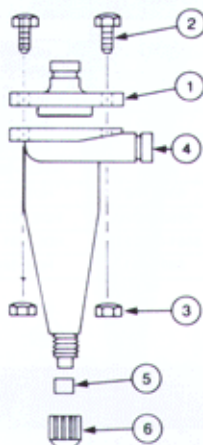
Tel: (713) 541-2020 • Fax: (713) 541-9090

E-Mail: salesint@odrillmcm.com

REPLACEMENT for 4" BRANDT® Involute Cone



4" BRANDT®- INVOLUTE CONE



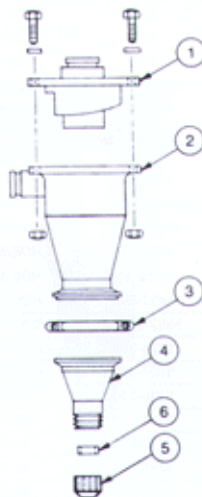
REF	DESCRIPTION	WT. lbs	SWECO® P/N	O'DRILL MCM P/N
1	Cone, Top Flange	2	PXXX-260	HBR-426-261
2	Bolt-Cone Top-S.S.		PXXX-22AT	HBR-5652-2802C
3	Nut-Cone Top-S.S.		PXXX-35K	HBR-426-267
4	Body	6	PXXX-26AR	HBR-426-264
5	Bushing	0.5	PXXX-26AA	HBR-426-265
6	Nut, Adjust	0.8	PXXX-26AO	HBR-426-266
1-6	Complete Cone	13	PXXX-26AW	HBR-426-260
Not Shown	2" 90° Ground Elbow-Poly	15	PXXX-44J	M-018-050
Not Shown	2" Galv. Victaulic coupling	1.8	PXXX-14A	M-185-264
Not Shown	2" Gasket Only	0.1	PXXX-10E	M-185-295
Not Shown	Feed Gauge-Without Dampner		PXXX-29K	M-930-837
Not Shown	Feed Gauge-w/Dampner 1/2" NPT			M-185-280

*BRANDT® PREFIX CODE - ASSEMBLY P/N

4 Cone Unit - P 355 - XXX	12 Cone Unit - P 349 - XXX
6 Cone Unit - P 419 - XXX	14 Cone Unit - P 412 - XXX
8 Cone Unit - P 351 - XXX	16 Cone Unit - P 346 - XXX
10 Cone Unit - P 413 - XXX	18 Cone Unit - P 461 - XXX
	20 Cone Unit - P 462 - XXX

12" BRANDT® DESANDER-HYDROCLONE

For Cones having cast iron body and top Flange refer to Geolograph Pioneer 12" -Sandmaster'(Parts are the same)



REF	DESCRIPTION	WT. lbs	SWECO® P/N	O'DRILL MCM P/N
1	Top Flange/ Vortex Finder	49	PXXX-26AF	HBR-126-261
2	Body	52	PXXX-26AG	HBR-126-262
3	Clamp-2 Bolt - S.S.	2	PXXX-14P	HBR-126-263
4	Cone Apex	7	PXXX-26AH	HBR-126-264
5	Cone Nut	1	PXXX-26AI	HBR-126-265
6	Apex Bushing	1.5 inch	PXXX-26AK	HBR-126-266
		1.25 inch	PXXX-26AL	HBR-126-267
		1.75 inch	PXXX-26AL	HBR-126-267
		2.125 inch	PXXX-26AJ	HBR-126-268
1-6	Complete Cone	112	PXXX-26AE	HBR-126-260
Not Shown	6" Galv. L.S. Elbow-Victaulic		PXXX-44AL	M-121-616
Not Shown	6" Galv. Coupling-Victaulic	13.3	PXXX-14N	M-121-2125
Not Shown	4" Galv. Coupling-Victaulic	6.4	PXXX-140	M-1212170

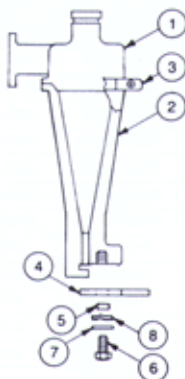
*BRANDT® PREFIX CODE - ASSEMBLY P/N

1 Cone Unit - P 691 - XXX
2 Cone Unit - P 584 - XXX
3 Cone Unit - P 606 - XXX

★ Inlet and body steel reinforced to prevent premature failure in the clamping area. ★

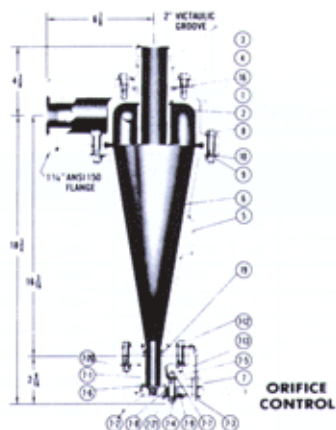
REPLACEMENT for 4" DEMCO® STYLE 'H' CONE

4" URETHANE DEMCO® STYLE 'H' CONE



REF	DESCRIPTION	WT. lbs	DEMCO® P/N	O'DRILL MCM P/N
1-8	Complete assembly			
1-3	With Orifice Control	16.6	14583-0001	HDE-514-581
1-3	Without Orifice Control	16.7	14583-0009	HDE-514-589
1	Inlet	5-8	14510	HDE-514-510
2	Cone	10-6	14511	HDE-514-511
3	Retaining Ring (Clamp) - S.S.	1	14629	HDE-514-629
4	Orifice Plate	1	4012	HDE-184-012
5	Bushing Bronze	0.13	5086-002	HDE-5086-002
6	Screw, S.S.	0.13	5652-28020	HDE-5652-28020
7	Washer, S.S.	0.625	5881-0182212	HDE-5881-0182212
8	Wave Washer	0.625	5891-001	HDE-5891-001

4" DEMCO® STYLE 'H' CONE



ASSEMBLY PART NUMBER

BASE PART NO.	CONFIG.	DESCRIPTION
542-0 X X	0	Universal
	1	Buna-N
	2	Urethane
	1	Orifice
	9	No Underflow

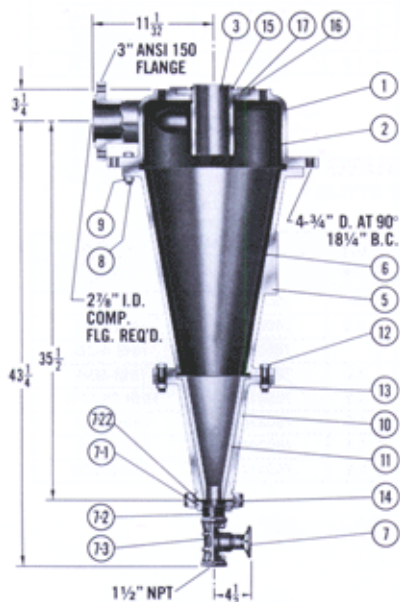
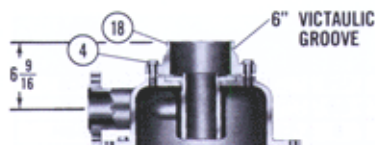
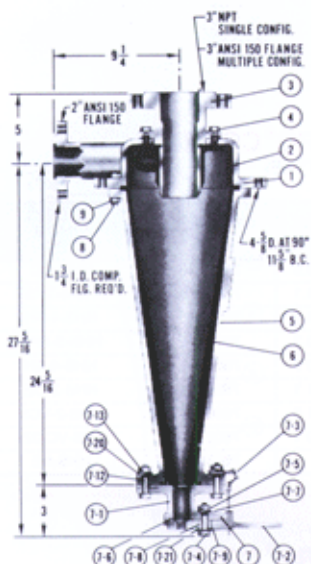
REF	DESCRIPTION	WT. lbs	DEMCO® P/N	O'DRILL MCM P/N
	Complete assembly			
	Buna liner- No underflow	50	4251-019	HDE-542-019
	Urethane Liner - Extra	55	4251-02X	HDE-542-02X
	With Orifice Control - Extra		4251-0X1	HDE-542-0X1
1	Inlet - D.I.	19	4304	HDE-184-304
2	Inlet Liner Buna	1	4405	HDE-184-405
3	Vortex Finder	1	4306	HDE-184-306
4	Cap Screw - S.S.	0.25	5652-28016	HDE-5652-28016
5	Cone - D.I.	22	4309	HDE-184-309
6	Cone Liner - Buna	1.5	4581	HDE-184-581
6	Cone Liner - Urethane	1.5	4310	HDE-184-310
7	7-1 Orifice Adaptor	3	4010	HDE-184-010
	7-2 Cap Screw S.S.	1	4012	HDE-184-012
	7-3 Lock Pin, Steel	.25	1549	HDE-181-549
	7-4 Cap Screw, S.S.	.125	5652-28032	HDE-5652-28032
	7-5 Nut, S.S.	.125	5328-028	HDE-5328-028
	7-6 O Ring, Buna	.0625	5530-215	HDE-553-215
	7-7 Lockwasher, S.S.	.0625	5901-008	HDE-5901-008
	7-8 Bushing Bronze	.125	5086-002	HDE-5086-002
	7-9 Washer, S.S.	.0625	5881-0182212	HDE-5881-0182212
	7-12 Cap Screw	.125	5650-24028	HDE-5650-24028
	7-13 Nut	.0625	5325-024	HDE-5325-024
	7-20 Lockwasher	.0625	5900-006	HDE-5900-006
	7-21 Wave Washer	.0625	5891-001	HDE-5891-001
8	Cap Screw S.S.	0.125	5652-28032	HDE-5652-28032
9	Nut, S.S.	0.625	5328-028	HDE-5328-028
10	Lockwasher, S.S.	0.625	5901-008	HDE-5901-008
16	O Ring, Buna	0.625	5330-230	HDE-553-230
Not Shown	Cone Seal, Buna	0.625	5530-213	HDE-553-213
Not Shown	2" 90° Groove Elbow (poly)	3	17085	M-018-048
Not Shown	2" Galv. Victaulic Cplg.	5	5264-081	M-185-264
Not Shown	2" Gasket Only	0.1	5295-081	M-185-295
Not Shown	Pressure Gauge with dampner	1	5280	M-185-280

★ Inlet and body steel reinforced to prevent premature failure in the clamping area. ★

REPLACEMENT for 8" & 12" DEMCO® CONES



8" DEMCO® CONE



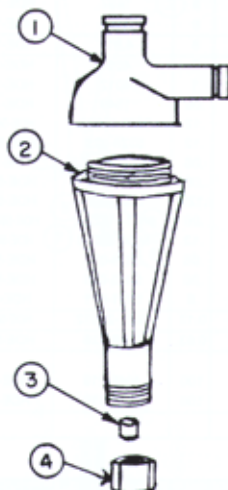
REF	DESCRIPTION	QTY.	WT. lbs	DEMCO® P/N	O'DRILL MCM P/N
1	Inlet	1	28	1488	HDE-181-488
2	Inlet Liner	1	3	1491	HDE-181-491
3	Vortex Finder -Multiple	1	18	1486	HDE-181-486
	-Single	1	12	1484	HDE-181-484
4	Cap Screw - S.S.	4	0.625	5652-28014	HDE-5652-28014
5	Cone - Metal	1	48	3912	HDE-183-912
6	Cone Liner -Buna	1	8	1492	HDE-184-492
	-Urethane	1	6	1493	HDE-184-493
7	Orifice Control Assembly	8	8	4,014	HDE-184-014
	7-1 Orifice Adaptor	1	5	4011	HDE-184-011
	7-2 Orifice Plate, Poly	1	1	4012	HDE-184-012
	7-3 Lock Pin, Steel	1	.06	1549	HDE-181-549
	7-4 Cap Screw, S.S.	1	.12	5652-28032	HDE-5652-28032
	7-5 Nut, S.S.	1	.12	5328-028	HDE-5328-028
	7-6 O Ring, Buna	1	.06	5530-215	HDE-553-215
	7-7 Lockwasher, S.S.	1	.06	5901-008	HDE-5901-008
	7-8 Bushing Bronze	1	.125	5086-002	HDE-5086-002
	7-9 Washer, S.S.	1	.06	5881-0182212	HDE-5881-0182212
	7-12 Cap Screw	4	.12	5650-28028	HDE-5650-28028
	7-13 Nut	4	.06	5328-028	HDE-5328-028
	7-20 Lock Washer	4	.06	5900-008	HDE-5900-008
	7-21 Wave Washer	1	.6	5891-001	HDE-121-203
8	Cap Screw S.S.	6	0.13	5652-28032	HDE-5652-28032
9	Nut, S.S.	4	0.63	5328-028	HDE-5328-028
	Complete Cone with Underflow				
	-Single		100	4045-219	HDE-184-219
	-Multiple		106	4045-119	HDE-184-119
	Urethane Cone Liner Adder				

12" DEMCO® CONE

REF	DESCRIPTION	QTY.	WT. lbs	DEMCO® P/N	O'DRILL MCM P/N
	Assembly				
	Multiple Config. - No Underflow		290	1195-129	HDE-121-129
	Single Config. - No Underflow		310	1195-229	HDE-121-229
	Orifice Control - Extra		10	-XX1	-XX1
1	Inlet	1	87	1197	HDE-121-197
2	Inlet Liner	1	7	1199	HDE-121-199
3	Vortex Finder	1	8	1186	HDE-121-186
4	Cap Screw - S.S.	8	.5	5652-34032	HDE-5652-34032
5	Upper Cone	1	45	1181	HDE-121-181
6	Upper Cone Liner	1	9	1175	HDE-121-175
7	Orifice Control Assembly	1	10	2244	HDE-122-244
	7-1 Adaptor	1		2087	HDE-122-087
	7-2 Nipple	1		5221-0122201	HDE-125-221
	7-3 Diaphragm Valve, Grinnell	8		5827-12111	HDE-125-827
	X-X Diaphragm Only for Above	.5		58211-121	HDE-125-921
	X-X Handle Only w/Set Screws	1		N.A.	HDE-125-922
8	Cap Screw, S.S.	6	.5	5652-32048	HDE-5652-32048
9	Nut, S.S.	6	.125	5328-032	HDE-5328-032
10	Lower Cone	1	20	2559	HDE-122-559
11	Lower Cone Liner	1	4	2560	HDE-122-560
12	Cap Screws, S.S.	4	.125	5652-28048	HDE-5652-28048
13	Nut, S.S.	4	.126	5325-028	HDE-5328-025
14	Coupling, Victaulic	1	5	5263-141	HDE-125-263
	XX-Gasket only for above	.5		5295-141	HDE-125-295
15	Retainer	1	.125	5500-375	HDE-125-375
16	Flange Gasket	1	.125	5290-50066	HDE-125-290
17	Vortex Flange	1	2	1263	HDE-121-263
18	Overflow Flange	1	24	2507	HDE-122-507

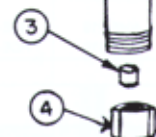
REPLACEMENT for 4" & 5" HARRISBURG® CONES

4" HARRISBURG® CONE (SCREW STYLE)



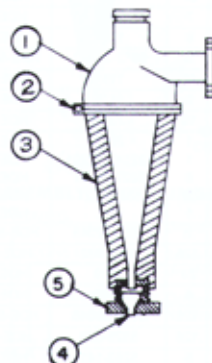
REF	DESCRIPTION	WT. lbs	HARRISBURG® P/N	O'DRILL MCM P/N
1-4	4" Complete Cone (Screw Style)	9.5	7604467	HHB-4-C
1	Top-Section (inlet)	4.1	7604475	HHB-4-THST
2	Bottom Cone	4.5	7604483	HHB-4-BH
3	Apex 1/2"	0.2	7604506	HHB-5-APX
4	Apex Holder	0.7	7604491	HHB-4-AH
Not Shown	2" 90° Grooved Elbow (Poly)	1.1	7602600	HHB-2-OE
Not Shown	2" Victaulic Clamp w/Seal	1.8	7600747	HHB-2-VCS
Not Shown	2" Gasket Vict. 77/78 style	0.1	7602707	HHB-VC-025
Not Shown	Gauge, Header (0-100 PSI)		7603053	HHB-HE

5" HARRISBURG® CONE (SCREW STYLE)



REF	DESCRIPTION	WT. lbs	HARRISBURG® P/N	O'DRILL MCM P/N
1-4	5" Complete Cone (Screw Style)	12.5	7605587	HHB-5-CS
1	Top-Section (inlet)	5.6	7606087	HHB-5B-TH
2	Bottom Cone	6	7606095	HHB-5B-BH
3	Apex 3/4"	0.2	7606109	HHB-5B-75APX
4	Apex Holder	0.7	7606117	HHB-5B-AH
Not Shown	2" 90° Grooved Elbow (Poly)	1.1	7602600	HHB-2-OE
Not Shown	2" Victaulic Clamp w/Seal	1.8	7600747	HHB-2-VCS

5" HARRISBURG® CONE (CLAMP STYLE)

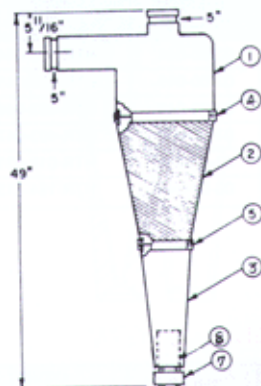


REF	DESCRIPTION	WT. lbs	HARRISBURG® P/N	O'DRILL MCM P/N
1-5	5" Complete Cone (Clamp Style)	15.1	7600658	HHB-5-C
1	Top-Section (inlet)	6.0	7600666	HHB-5-TH
2	Clamp Band		7600682	HHB-5-CB
3	Bottom Cone	8.0	7600674	HHB-5BH
4	Apex 3/4"	0.2	7606109	HHB-75-APX
5	Apex Holder (Nut)	1.0	7602308	HHB-5-AH
Not Shown	2" 90° Elbow (Poly)	1.1	7602600	HHB-2-OE
Not Shown	2" Victaulic Clamp	1.8	7600747	HHB-2-VCS

REPLACEMENT for 10" HARRISBURG® DESANDER CONE

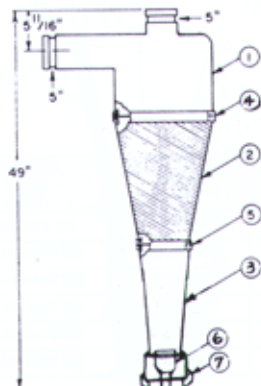


10" HARRISBURG® CONE (OLD STYLE)



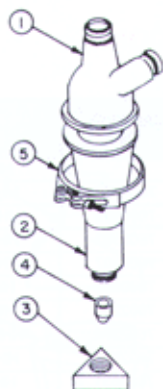
REF	DESCRIPTION	WT. lbs	HARRISBURG® P/N	O'DRILL MCM P/N
1-9	10" Complete Cone	32.0		HHB-10-C
1	Top-Section (Inlet)	35.0	7600577	HHB-10-TS.
2	Cone Middle Section	13.5	7600585	HHB-10-MS.
3	Cone Bottom Section	3.5	7600593	HHB-10-BS.
4	10" Clamp Band	1.1	7600607	HHB-10-CB.
5	5" Clamp Band	1.0	7600682	HHB-5-CB.
6	1" Apex (Orifice Controller)	.55	7602286	HHB-1-Apx
6	1 1/4" Apex (Orifice Controller)	1.1	7602294	HHB-1.25Apx
6	1 1/2" Apex (Orifice Controller)	1.2	7602618	HHB-1.5Apx
7	Apex Holder	2.8	7600631	HHB-10-AH
8	Inner Sleeve		7600623	HHB-10-IS
9	Bolt & Washer Assembly		7605064	HHB-10-BW
Not Shown	5" Victaulic Clamp w/Seal	8.35	7600640	HHB-5-VCS
Not Shown	Overflow Ell 5"	33.60	7605072	HHB-5-OE
	Seal Victaulic 5" sty. 77/78	.30	7605633	

10" HARRISBURG® CONE (NEW-STYLE)



REF	DESCRIPTION	WT. lbs	HARRISBURG® P/N	O'DRILL MCM P/N
1-7	10" Complete Cone		7617127	HHB-10-CNS
1	Top-Section (Inlet)	35.0	7600577	HHB-10-TS.
2	Cone Middle Section	17.5	7600585	HHB-10-MS.
3	Cone Bottom Section	8.5	7617135	HHB-10-BS.-NS
4	10" Clamp Band	3.5	7600607	HHB-10-CB.
5	5" Clamp Band	1.1	7600682	HHB-10-CB.
6	1" Apex (Orifice Controller)		7617003	
6	1 1/4" Apex (Orifice Controller)	.55	7616929	Apex 1.25 NS
6	1 1/2" Apex (Orifice Controller)		7617143	
7	Apex Holder	2.5	7617011	HHB-10-AH-NS
Not Shown	Overflow Ell 5"	33.60	7605072	HHB-5-OE
Not Shown	5" victaulic Clamp w/Seal	8.35	7600640	HHB-5-VCS
Not Shown	Seal 5" Vict. Styl. 77/78		7605633	
Not Shown	Header Gauge		7603053	
Not Shown	TBA		7605188	

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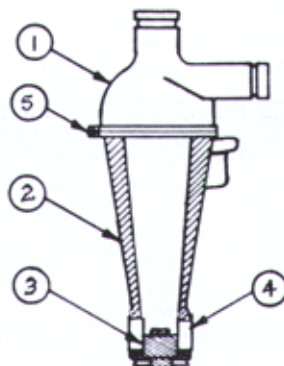


4" TRI-FLO® / MILCHEM-TOTCO® HYDRO CYCLONE

REF	WT. lbs	DESCRIPTION	TRI-FLO® Parts No.	O'DRILL MCM P/N
1-5	10	Complete Cone 4"	03-00-044	HTR-403-044
1	4	Inlet	03-00-045	HTR-403-045
2	4	Cone, Lower	03-00-046	HTR-403-046
3	.75	Apex Nut	03-00-047	HTR-403-047
4	.25	Apex Insert	03-00-048	HTR-018-039
5	1	Clamp, S.S.	03-00-049	HTR-184-315

THULE® HYDRO CYCLONE – 50 GPM

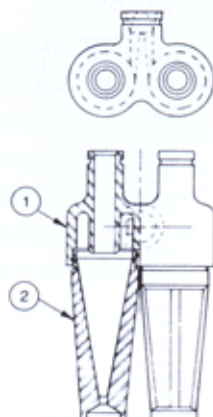
REF	WT. lbs	DESCRIPTION	THULE® P/M	O'DRILL MCM P/N
1-5	10.3	Complete Cone 4"	PH4LV	HT PH4LV
1	4.2	Cone Inlet (V/A/41)	PH4LV1	HT PH4LV1
2	4.0	Cone, Body	PH4LV2	HT PH4LV2
3	.2	Under Flow Bushing (Apex)	PH4LV3	HT PH4LV3
4	.8	Tri Nut	PH4-4	HT PH4-4
5	1.1	Clamp, S.S.	PH4	HT PH4
6	.11	Elbow, 2" grooved	VA-13	



THULE® HYDRO CYCLONE – 80 GPM

REF	WT. lbs	DESCRIPTION	THULE® P/M	O'DRILL MCM P/N
1-5	10.3	Complete Cone 4"	PH4HV	HT PH4HV
1	4.2	Cone, Inlet	PH4HV1	HT PH4HV-1
2	4.0	Cone, Body	PH4HV2	HT PH4HV-2
3	.2	Under Flow Bushing (Apex)	PH4HV3	HT PH4HV-3
4	.8	Tri Nut	PH4HV-4	HT PH4HV-4
5	1.1	Clamp, S.S.	PH4HV-5	HT PH4HV-5

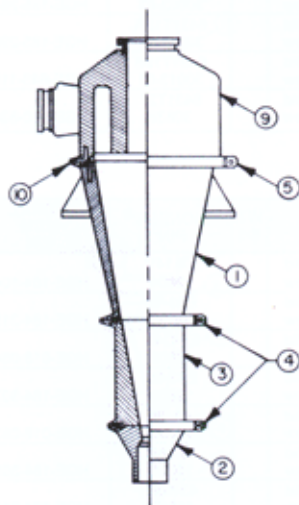
REPLACEMENT for SWACO® UT4 DESILTER CONE



SWACO® UT4 DESILTER CONE

REF	WT. lbs	REQ.	DESCRIPTION	SWACO® P/N	O'DRILL MCM P/N
1-2	13		Complete Cone	96-22-220	HSA-622-220
1	6.0	1	Feed Liner – Twin	96-22-221	HSA-622-221
2	3.5	2	Apex – 3/8"	96-22-338	HSA-622-338
2A	3.5	Opt.	Apex – 1/2"	96-22-312	HSA-622-312
2B	3.5	Opt.	Apex – 5/8"	96-22-358	HSA-622-358
			2 1/2" 78 w / 'T' Gasket	50-15-053	
			2" 78 / 'T' Gasket	50-15-052	

SWACO® 12" URETHANE DESANDER CONE

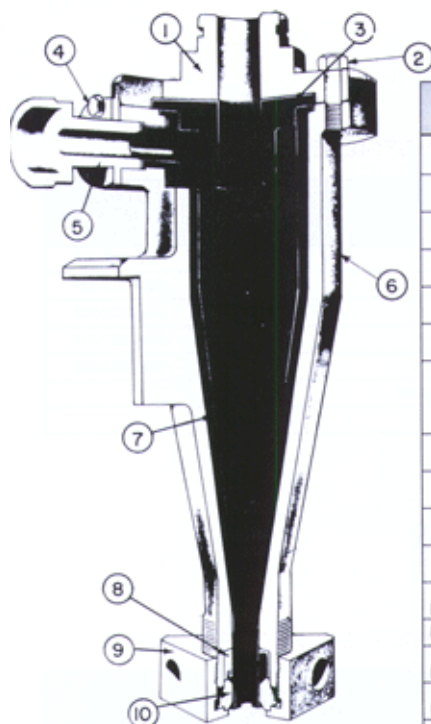


REF	WT. lbs	REQ.	DESCRIPTION	SWACO® P/N	O'DRILL MCM P/N
1	30	1	Body, Main	96-21-173	HSA-621-173
2	6	1	Valve, 1 1/2" Apex	96-21-174	HSA-621-174
3	15	1	Body, Middle	96-21-175	HSA-621-175
4	1	2	Clamp, Small	96-21-176	HSA-621-176
5	2	1	Clamp, Large	96-21-177	HSA-621-177
2A	.5	OPT	Valve, Apex 1/2"	96-21-215	HSA-621-215
2B	.5	OPT	Valve, Apex 3/4"	96-21-216	HSA-621-216
2C	.5	OPT	Valve, Apex 1 1/2"	96-21-217	HSA-621-217
9	48	1	Feed	96-21-281	HSA-621-281
10	.0625	1	Foam Gasket		
1-10	107	1	Complete Cone (1 1/2" Apex std.)	96-21-280	HSA-621-280

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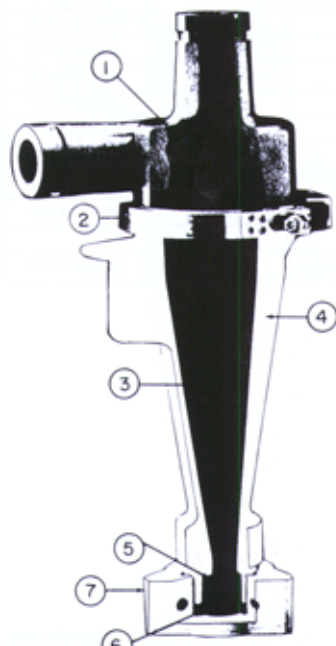
4" GEOLOGRAPH – PIONEER® 'SILTMASER®' - CONE



4" GEOLOGRAPH– PIONEER® SILTMASER® – CONE

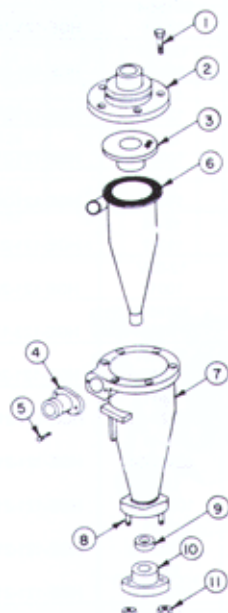
REF	DESCRIPTION	WT. lbs	PIONEER® P/N	O'DRILL MCM P/N
1	Cone Top – Bronze	Old New	43-01V 10013-01	HGE-184-301
2	Bolt – Cone Top. S.S.	Old New	30181-2 ZBA-12014	HGE-180-014
3	Vortex Finder	Old New	4-02 10007-01	HGE-184-302
4	Bolt – Feed Nipple, S.S.	Old New	30177-1 ZBA-21010	HGE-180-010
5	Feed Nipple – Bronze	Old New	4-03V 10002-02	HGE-184-030
6	Body Steel	Old New	43-05 10314-01	HGE-184-305
7	Bladder	Hycar Old Polyurethane New	4-04H 10587-01 4-04P 10587-02	HGE-184-040 HGE-184-041
8	Squeeze Bushing - Neoprene	Old New	43-06 10000	HGE-018-053
9	Tri-Nut Polyurethane	Old New	43-10 10011	HGE-184-310
10	Orifice Bushing - Bronze	Old New	43-08 14001	HGE-184-308
1-10	Cone Assembly	Old New	DSC-400CV 10838-01	HGE-184-300
Not Shown	2" Grooved Elbow (Steel)	Old New	431-T15 11444	HGE-018-051
Not Shown	2" 90° Overflow Elbow (Poly)			HGE-018-052
Not Shown	2" Galv. Victaulic Coupling	Old New	6431T19 30003-03	HGE-185-264
Not Shown	2" Gasket Only	Old New	6431T19A 30018-03	HGE-185-295
Not Shown	2" Galv. Cap. Blankins	Old New	6431T19B 30013-01	HGE-643-119
Not Shown	Pressure Gauge	Old New	6431T27 30838	HGE-930-838

4" GEOLOGRAPH– PIONEER® ECONOMASTER®



REF	DESCRIPTION	WT. lbs	PIONEER® P/N	O'DRILL MCM P/N
1	Top section, Poly	Old New	E4-14V 12804	HGE-184-104
2	Quick Coupling – S.S.	Old New	E43-15 30153	HGE-184-315
3	Bladder – Polyurethane	Old New	E4-04P 12805	HGE-018-054
4	Body – Alum.	Old New	E43-05 12803	HGE-184-307
5	Squeeze Bushing, Neoprene	Old New	43-06 10000	HGE-018-053
6	Orifice Bushing, Bronze	Old New	43-08P 10001	HGE-184-308
7	TRI-NUT – Poly	Old New	43-10P 11840	HGE-184-311
1A	Top Section - Hi Volume	Old New	E4-14HV 2913054	HGE-184-141
3A	Bladder - Poly – Hi Volume	Old New	E4-04PHV 2913436	HGE-018-154
1-7	Complete Cone - Std. 50 GPM	Old New	E-400-C 12802-01	HGE-184-400
1A-7A	Cone Assembly - HV. - 80 GPM	Old New	E-400-HV 13053-01	HGE-184-401

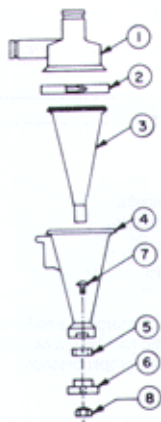
6" GEOLOGRAPH - PIONEER® - 'SANDMASTER'® CONE



6" GEOLOGRAPH - PIONEER® - STANDMASTER® CONE

REF	DESCRIPTION	WT.	PIONEER® P/N	O'DRILL MCM P/N
1	Cap Screws, S.S. 5/8" x 1 1/2"	Old New	30181-3 ZBA12016	HGE-183-181
2	Top Flange, B.R. 2 1/2" Victaulic	Old New	6-01V 10014	HGE-186-011
3	Vortex Finder	Old New	6-02 10010	HGE-186-020
4	Feed Nipple, B.R. 2" Victaulic	Old New	6-03V 10006	HGE-186-031
5	Cap Screw, S.S. 1/2" x 1 1/4"	Old New	30100-3 ZBA11614	HGE-183-180
6	Bladder	Hycar Polyurethane	6-04H 10011-02 6-04P 10011-01	HGE-186-041 HGE-186-042
7	Body	Old New	6-05 10318-01	HGE-186-050
8	Studs, S.S. (Set of 2)	Old New	6-08 ZMS00030	HGE-186-080
9	Bushing, Noprene	Old New	6-06 10012	HGE-186-060
10	Adj. Flange, B.R.	Old New	6-07 10004	HGE-186-070
11	Adj. Nuts, B.R. (Set of 2)	Old New	6-09 ZNN-11601	HGE-186-090
1-11	Complete Cone	Old New	DCS-600CV 10839-01	HGE-186-500
Not Shown	2" Victaulic Snaplock Coupling	Old New	6431T19 30003-03	HGE-185-264
Not Shown	2 1/2" Victaulic Snaplock Coupling	Old New	61T-20 30003-04	HGE-185-265
Not Shown	2 1/2" 90° Overflow Elbow, Grooved	Old New	61T-15 12848	HGE-186-115
Not Shown	2 1/2" Gasket Only, Victaulic	Old New	61T-20A 30018-04	HGE-185-266
Not Shown	2 1/2" Cap, Galv., Victaulic	Old New	61T-20B 30013-02	HGE-643-120

6" GEOLOGRAPH - PIONEER® - ECONOMASTER®

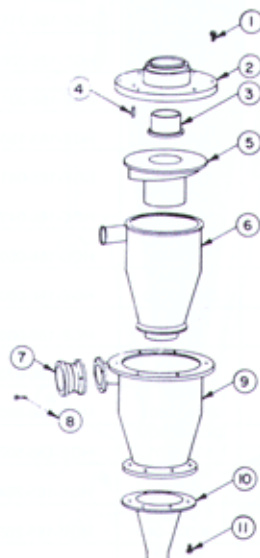


REF	DESCRIPTION	WT.	PIONEER® P/N	O'DRILL MCM P/N
1	Cone Top - Polyurethane	Old New	E6-14V 13068	HGE-186-141
2	Quick Coupling - Stainless	Old New	30150 30152	HGE-183-150
3	Bladder - Polyurethane	Old New	E6-04P 12864-01	HGE-186-044
4	Body	Old New	E6-05 12862	HGE-186-051
5	Squeeze Busing, Neoprene	Old New	E6-06 12866	HGE-186-061
6	Adj. Flange, BR.	Old New	E6-07UF 12939	HGE-186-071
7	Flange Bolt, 1/2" - 13 x 2" S.S.	Old New	30154-2 ZBC11620	HGE-5652-28032
8	Flange Nuts, BR.	Old New	30271 ZNN11601	HGE-5328-028
1-8	Complete Cone	Old New	12847 12847-01	HGE-186-600



12" GEOGRAPH - PIONEER®— 'VOLUMEMASTER® CONE

*✓ out our quality....
Compare our Prices !!*



12" GEOGRAPH PIONEER® – VOLUMEMASTER® CONE

REF	WT lbs	QTY	DESCRIPTION	PIONEER® P/N	O'DRILL MCM P/N
1	5	6	Cap Screw, Hex - 5/8" x 1 1/4" S.S.	Old New 30186-4 12018	HGE-123-186
2	19	1	Top Flange 6" Victaulic	Old New 12-01V 10319	HGE-121-201
3	1	1	Hycar Liner - Top Flange	Old New 12-13 12481	HGE-121-213
4	5	1	Vortex Finder - Locator Pin S.S.	Old New 12-12 10021	HGE-121-212
5	17	1	Vortex Finder	Old New 12-02 10315	HGE-121-202
6	15	1	Bladder, Hycar	Old New 12-04 11007	HGE-121-204
7	5.5	1	Feed Nipple - 4" Victaulic BR.	Old New 12-03V 10017	HGE-121-203
8	.5	4	Cap Screws, Hex-1/2" x 1 1/4" S.S.	Old New 30185-2 ZB A11614	HGE-123-185
9	33	1	Body	Old New 12-05A 10588	HGE-121-205
10	14	1	Apex - 1 1/4"	Old New 12-11 10322-03	HGE-121-2109
			1 1/2"	Old New 12-11 10322-04	HGE-121-2110
			1 3/4"	Old New 12-11 10322-05	HGE-121-2111
			2"	Old New 12-11 10322-06	HGE-121-2112
			2 1/4"	Old New 12-11 10322-07	HGE-121-2113
11	5	6	Cap Screw, Hex - 3/8" x 1 1/4" S.S.	Old New 30183 11212	HGE-123-183
1-11	106	1	Complete Cone	Old New DSC 1200CV 10840-02	HGE-123-100
Not Shown	29	1	Elbow, Long Sweep 6"	Old New 121T-15 30011-04	HGE-121-615

★ TROUBLE SHOOTING DESANDER & DESILTER CONE PROBLEMS ★

PROGRAM	CAUSE	SOLUTION
No discharge from bottom of cone,	1. Check all mud lines for closed valve 2. Check inlet line and header inlet for obstacle. 3. Check rotation of pump. 4. Check pump for air lock or bad impeller. 5. Check pump chart for proper head and pressure. 6. Check for clogged cone	Open Valve Clean Out Change rotation if wrong Relieve airlock, change impeller Call O'DRILL/MCM if any doubt Clean Cone
Mud discharge from bottom of cone under pressure	1. Cone inlet is partially blocked by foreign material. - Check inlet header for more objects.	Unbolt cone, remove object from header inlet.
Too much fluid loss out of bottom of cone	1. Check Orifice. 2. Check for plugged cone. 3. Make sure pressure is 35 to 40 PSI	Tighten orifice to pinch of discharge or smaller orifice. Clean out cone with welding rod. Take cone apart and clean out. Blank off cone or cones form proper pressure.
Cone leaking around bands.	1. Band not tight enough. 2. Cone cut or separating. 3. Build up or mud around seal area.	Tighten clamp band. Replace bad cones. Wash out seal area.
Discharge from bottom of cone not heavier than mud weight.	1. Inset and discharge line hooked up wrong. 2. Check for excessive wear in cone. 3. Check for proper on header gauge.	Inlet line on bottom, discharge line on top. Replace cone. Call O'DRILL/MCM if any doubt.

COMPLETE ASSEMBLIES

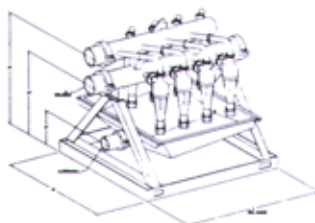


DESILTERS

Cones, XXH Urethane, with reversible inlet & Overflow Headers, Gauge, Underflow trough, on a rigid skid base

4" URETHANE CONES				
MODEL NO.	NO. CONES	WT. LBS.	CAP. GPM.	LIST PRICE
64	6	670	300	\$ 3,600.00
84	8	825	400	4,000.00
104	10	975	500	4,500.00
124	12	1125	600	4,900.00
144	14	1275	700	5,600.00
164	16	1425	800	6,000.00
184	18	1675	900	6,500.00
204	20	1800	1000	7,500.00

5" URETHANE CONES				
MODEL NO.	NO. CONES	WT. LBS.	CAP. GPM.	LIST PRICE
64	6	735	510	\$ 3,560.00
85	8	905	680	4,000.00
105	10	1075	850	4,200.00
125	12	1245	1020	5,500.00
145	14	1415	1190	6,500.00
165	16	1585	1360	7,000.00
185	18	1855	1530	8,500.00
205	20	2000	1700	9,000.00

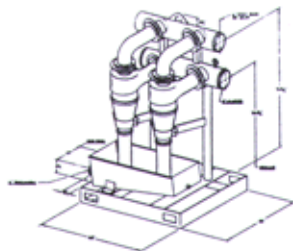
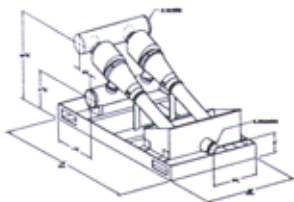


DESANDERS - 10"

Cones, XXH Urethane, with reversible inlet & Overflow Headers, Gauge, Underflow trough, on a rigid skid base

INCLINED-				
MODEL NO.	NO. CONES	WT. LBS.	CAP. GPM.	LIST PRICE
I-1100	1	480	500	\$ 3,000.00
I-2100	2	800	1000	5,000.00
I-3100	3	1000	1500	6,000.00
I-4100	4	1500	2000	8,000.00

VERTICAL				
MODEL NO.	NO. CONES	WT. LBS.	CAP. GPM.	LIST PRICE
V-1101	1	500	500	\$ 3,000.00
V-2101	2	850	1000	5,000.00
V-3101	3	1260	1500	6,000.00
V-4101	4	1500	2000	8,550.00



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- ★ Mud Hoppers
- ★ Bug blowers
- ★ Reset Relief Valves – Cameron® Type 'B' & 'C' – 2" & 3"
- ★ Shear Relief Valves – Cameron® Demco® & Oteco® – 2" & 3"
- ★ Gate Valves & Parts – Demco® – 2", 3" & 4"
- ★ Gate Valves & Parts – Oteco® (Flex-Seal) – 2", 3" & 4"
- ★ Pressure Gauges – Type 'D' & 'F'
- ★ Centrifugal Pumps – Harrisburg®, Halco®, Misson® 1-1/8", 1-7/8", & 2 1/2"
- ★ Float Valves – Baker® Type, Type 'F' & 'G', 'GA' & "GC" (All Sizes)



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WARRANTY

O'Drill, Inc. warrants its Drilling Equipment Products to be free from defects in material and workmanship under normal use and service for a period of one (1) year from date of purchase. The liability for any such defects shall be limited to the repair or replacement of such Drilling Equipment Products, or if agreed upon, refund of the purchase price in exchange for the product.

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