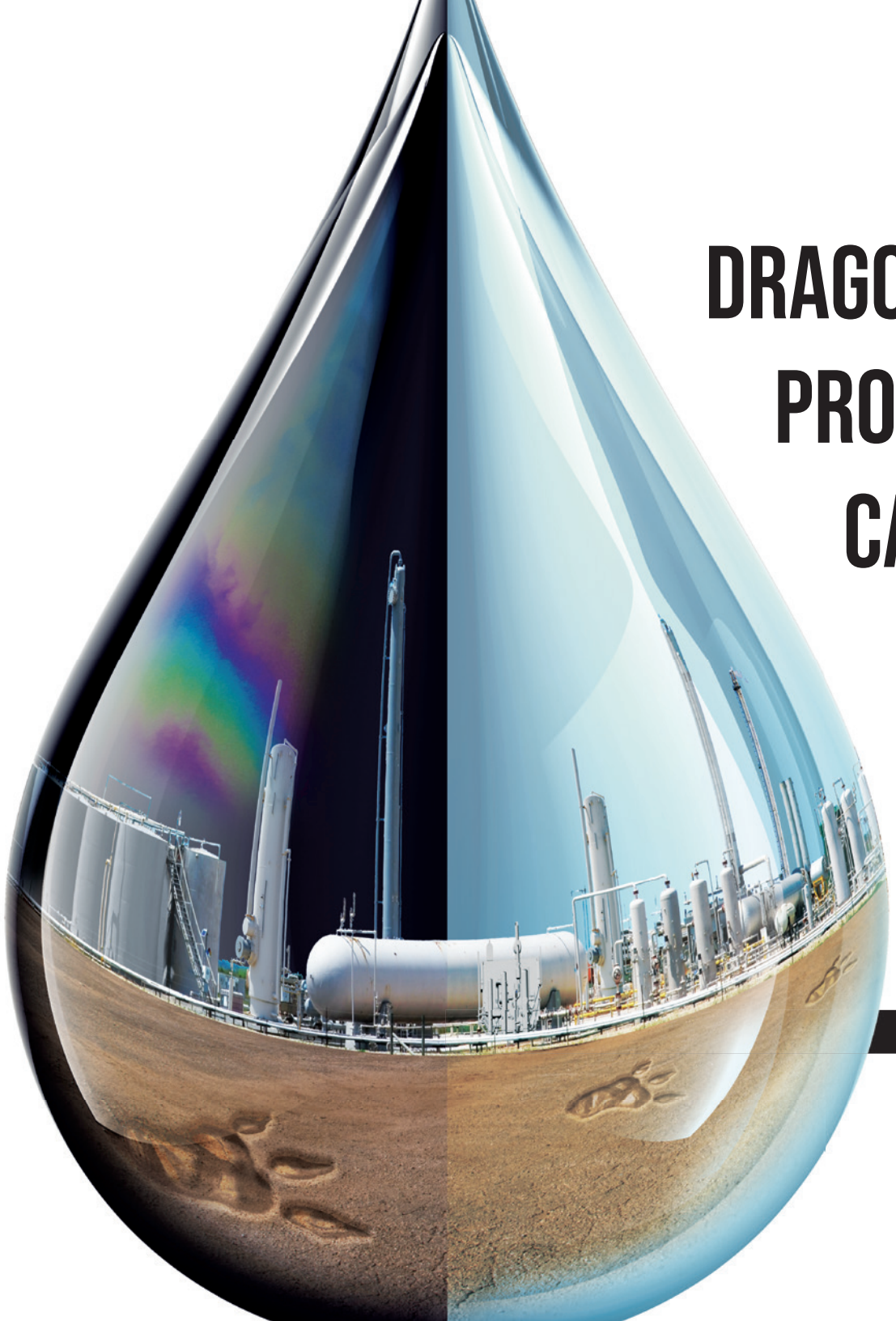


DRAGON STANDARD PRODUCTION EQUIPMENT CATALOG

DRAGON

WWW.DRAGONPRODUCTSLTD.COM | 800-231-8198



DRAGON



ABOUT
DRAGON PRODUCTS PES, INC.

Quality production equipment flows in high volumes – from Dragon.

While you are producing the oil & gas the world needs, Dragon is producing the equipment you need to get the job done. Dragon offers a full range of high integrity surface production equipment, and this Standard Products Catalog offers the most popular size and pressure configurations across most Shale Plays in the US. You will find these Standard Products to have stock inventory when possible, shorter lead-times, & lower pricing than custom designs.

Dragon, founded in 1963, is U.S. owned and operated. In state-of-the-art facilities across this continent, we produce equipment that is severe-duty engineered and manufactured to the highest and most exacting performance and safety standards. In these times of limited capacity and long-lead times, Dragon wants to help deliver the Standard Product solutions you need to keep your oil & gas flowing.

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QUICK REFERENCE

Vertical Heater Treater		
DWG #	Size	PSI
P3202	48"x20'	125
P3203	72"x20'	125
P3204	96"x20'	125

Horizontal Heater Treater		
DWG #	Size	PSI
P3205	48"x20'	125
P3206	48"x20'	250
P3207	72"x20'	125
P3208	72"x20'	250
P3209	96"x20'	125
P3210	96"x20'	250
P3241	120"x20' SB	125
P3242	120"x20' DB	125

FWKO		
DWG #	Size	PSI
P3243	72"x15'	125
P3244	72"x20'	125
P3211	96"x20'	125

Line Heater		
DWG #	Size	PSI
2474	36"x12'	0

Vertical 3-Phase Separator		
DWG #	Size	PSI
P3214	30"x10'	250
P3216	36"x10'	125
P3217	36"x10'	250
P3246	36"x10'	500
P3247	36"x10'	1440
P3219	48"x10'	125
P3220	48"x10'	250
P3221	48"x10'	500

Vertical 2-Phase Separator		
DWG #	Size	PSI
P3248	30"x10'	250
P3249	36"x10'	500
P3250	36"x10'	1440
P3251	48"x10'	125
P3252	48"x10'	250
2726	48"x10'	1440

Compressor		
DWG #	Size	Engine
P3253	KTA19	Cummins
P3254	3306TA	Cat
P3255	3306NA	Cat
P3256	3304NA	Cat

Horizontal 3-Phase Separator		
DWG #	Size	PSI
P3200	36"x10'	250
P3232	36"x10'	500
P3257	36"x10'	1440
P3233	48"x10'	125
P3234	48"x10'	250
P3235	48"x10'	500
P3258	48"x15'	125
P3262	48"x15'	500
P3259	48"x15'	1440
P3260	48"x16'	250
P3261	48"x20'	280
P3236	72"x15'	125
P3237	72"x15'	250
P3268	72"x15'	500
P3264	72"x16'	250
P3265	72"x16'	278
P3263	72"x16'	500
P3266	72"x20'	250
P3267	72"x20'	500
P3239	96"x20'	125
P3240	96"x20'	250
P3268	96"x30'	250
P3269	96"x30'	278
P3270	120"x30'	250

VRT		
DWG #	Size	PSI
1707	36"x30'	125
2093	36"x40'	125
2298	48"x30'	75
2660	48"x40'	75
2729	60"x30'	75
3106	60"x40'	75

LPG		
DWG #	Size	PSI
1936	12k	250
2047	18k PortaPak	250
1933	18k	250
1505	30k	250
2527	45k	250
2275	60k	250
2503	90k	250

LACT		
DWG #	Size	
2273	3" Truck Loading	

Gas Cooler		
DWG #	Size	PSI
18077	98"Wx192"L	250

API 12F TANKS		
Capacity	Size	OZ/SqIn
100 BBL	9'6"x8'	16
200 BBL	12'x10'	16
210 BBL	10'x15'	16
300 BBL	12'x15'	16
400 BBL	12'x20'	16
500 BBL	12'x25'	16
500 BBL	15'6"x16'	8
750 BBL	15'6"x24'	8
1,000 BBL	15'6"x30'	8

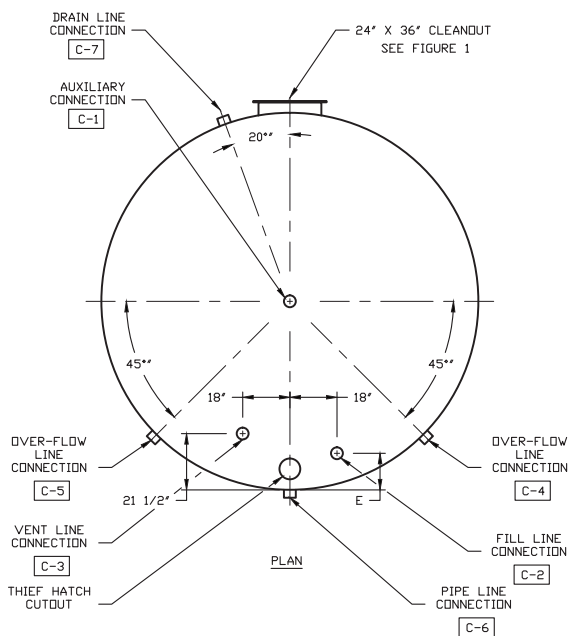
GUNBARREL TANKS		
500 BBL	12'x25'	16
750 BBL	15'6"x24'	8
1,000 BBL	15'6"x30'	8

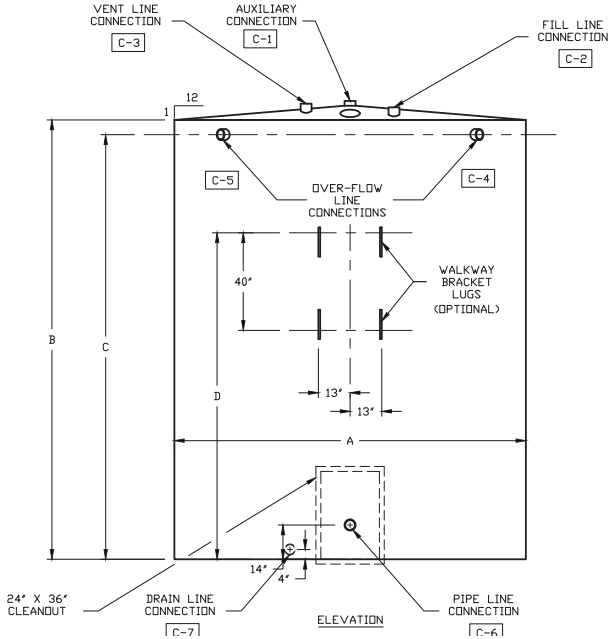
HDPE POLY PIPE
2" to 16" IPS
SDR 7 to SDR 17

PRODUCTION TANKS // SPECIFICATIONS







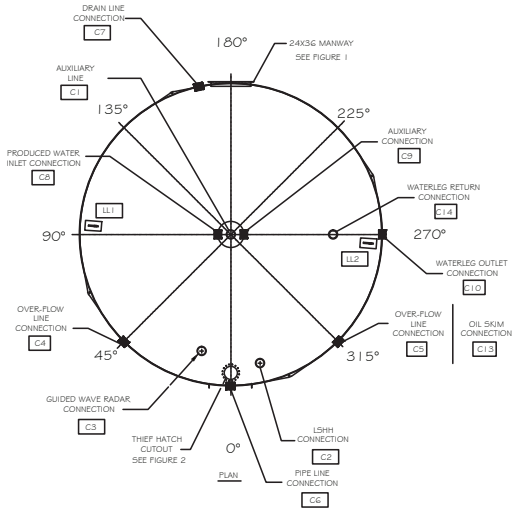


NOMINAL CAPACITY	DESIGN PRESSURE OZ. PER SQUARE INCH PRESS. VACUUM	APPROXIMATE WORKING CAPACITY BBL	OUTSIDE DIAMETER	HEIGHT	APPROX. WEIGHT	SITE OF CONNECTIONS C-1, C-2, C-3, C-7	SITE OF CONNECTIONS C-4, C-5, C-6
100BBL	16 1/2	79	9' 6"	8'	3,250lbs	3	3
200BBL	16 1/2	166	12'	10'	5,025lbs	3	4
210BBL	16 1/2	200	10'	15'	5,200lbs	3	4
300BBL	16 1/2	266	12'	15'	6,490lbs	4	4
400BBL	16 1/2	366	12'	20'	8,000lbs	4	4
500BBL	16 1/2	466	12'	25'	9,350lbs	4	4
500BBL	8/16 1/2	479	15' 6"	16'	9,960lbs	4	4
750BBL	8/16 1/2	746	15' 6"	24'	16,750lbs	4	4
1000BBL	8/16 1/2	922	15' 6"	30'	22,500lbs	4	4

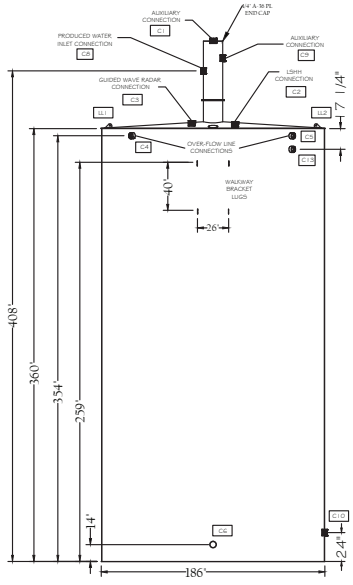
GUNBARREL TANKS // SPECIFICATIONS



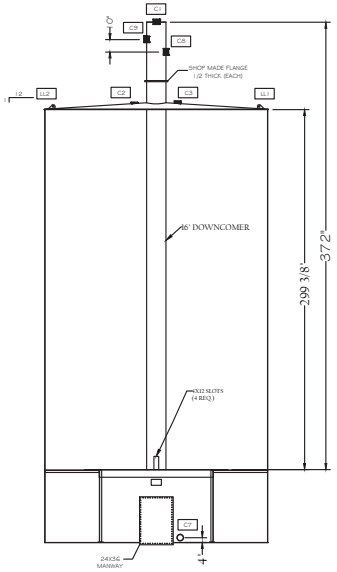




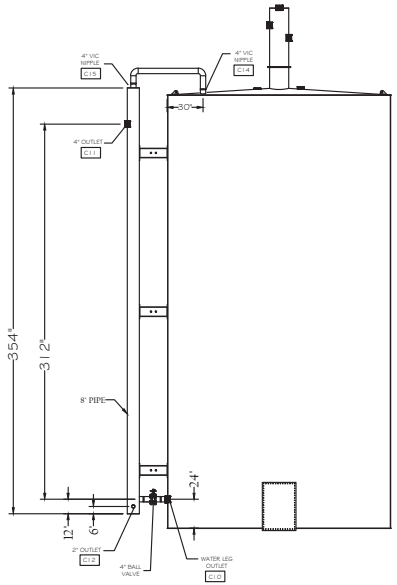
NOZZLE SCHEDULE				
ITEM	DESCRIPTION	QTY	SIZE	MATERIAL
C1	AUXILIARY LINE	1	4"	3000# COUPLING
C2	LSHH CONNECTION	1	4"	3000# COUPLING
C3	GUIDED WAVE RADAR	1	4"	3000# COUPLING
C4	OVERFLOW	1	4"	3000# COUPLING
C5	OVERFLOW	1	4"	3000# COUPLING
C6	PIPE LINE	1	4"	3000# COUPLING
C7	DRAIN LINE	1	4"	3000# COUPLING
C8	PRODUCED WATER INLET	1	4"	3000# COUPLING
C9	AUXILIARY LINE	1	4"	3000# COUPLING
C10	WATERLEG OUT	1	4"	3000# COUPLING
C11	OUTLET	1	4"	3000# COUPLING
C12	OUTLET	1	2"	3000# COUPLING
C13	OIL SKIM	1	4"	3000# COUPLING
C14	WATER LEG RETURN	1	4"	VIC NIPPLE
C15	WATER LEG RETURN	1	4"	VIC NIPPLE
TH	THIEF HATCH	1	8"	4.0OZ / 0.4VAC
MW	MANWAY	1	24X36	1 - PIECE API STD
LL1/2	LIFT LUG	2	-	1/4 PL / 5/8 PL



0° (TANK DETAIL)



180° (GUNBARREL DETAIL)



270° (WATERLEG DETAIL)

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TANK PADS

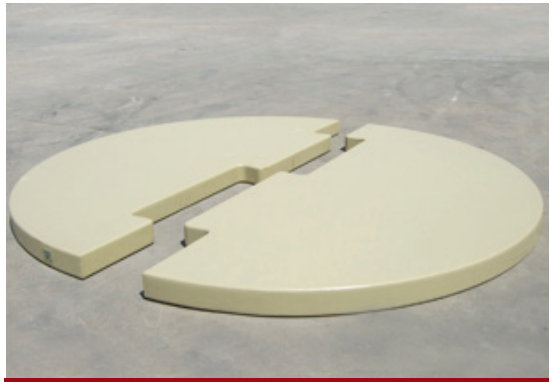
TUFFBASE TANK PADS

- 12’ TuffBase for 300 and 400 BBL - 4 piece
- HD 12’ TuffBase 500 BBL - 4 piece
- 15’6” TuffBase 500 and 750 BBL- 7 piece
- HD 15’6” TuffBase for 1,000 BBL- 7 piece



POLYSTYRENE 2-PIECE WITH LINER

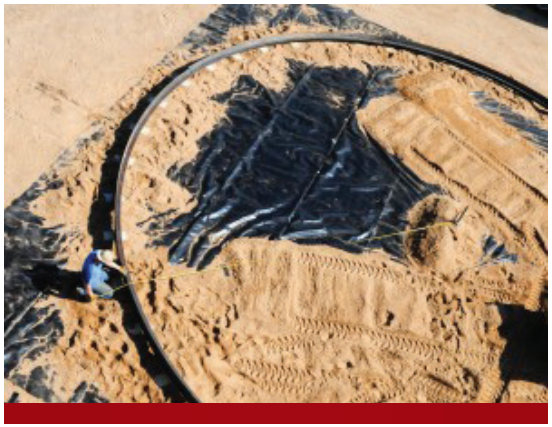
- 10’x6” with Tank Pad Liner: HDTE, 40mil 10’ diameter
- 12’x6” with Tank Pad Liner: HDTE, 40mil 12’ diameter
- 15’6”x6” with Tank Pad Liner: HDTE, 40mil 16’ diameter



GRADE BAND TANK RINGS

- 5’x8”, GALV - 11 per 15’6” tank
- 5’x8”, GALV - 9 per 12’ tank





CATWALKS // PLATFORMS

Dragon offers a wide array of custom and standard Production Tank Catwalk/Platform Designs with full installation and support.

- Stairways
- Walkways
- Extensions
- Support Towers
- Y-Braces

LARGEST INVENTORY IN NORTH AMERICA!

WE STOCK INVENTORY AT 9 LOCATIONS ACROSS THE U.S.





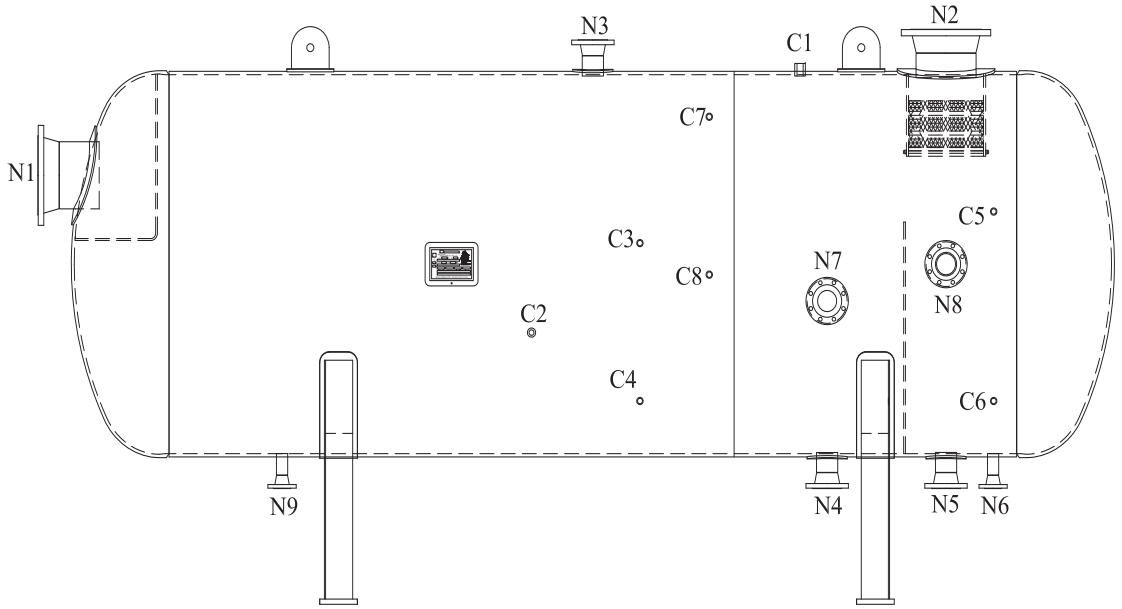




HORIZONTAL 3-PHASE SEPARATORS // SPECIFICATIONS







DRAGON STANDARD HORIZONTAL 3-PHASE SEPARATOR NOZZLE SCHEDULE	
N1	INLET
N2	GAS OUTLET
N3	PSV
N4	WATER OUTLET
N5	OIL OUTLET
N6	OIL DRAIN
N7	WATER LLC
N8	OIL LLC
N9	WATER DRAIN
C1	SUPPLY GAS/PRES. GAUGE
C2	TEMPERATURE INDICATOR
C3	WATER LEVEL GAUGE TOP
C4	WATER LEVEL GAUGE BOTTOM
C5	OIL LEVEL GAUGE TOP
C6	OIL LEVEL GAUGE BOTTOM
C7	INTERFACE LEVEL GAUGE TOP
C8	INTERFACE LEVEL GAUGE BOTTOM

DRAGON STANDARD HORIZONTAL 3-PHASE SEPARATOR FEATURES
HORIZONTAL CYLINDER W/ WELDED STEEL SADDLES
INLET DEFLECTOR
WIRE MESH MIST EXTRACTOR
COMMERCIAL BLAST w/ POLYURETHANE PAINT
RELIEF VALVE SET @ MAWP (THERMAL RELIEF ONLY)
LIFTING EYES
SPILL OVER WEIR
VORTEX BREAKERS

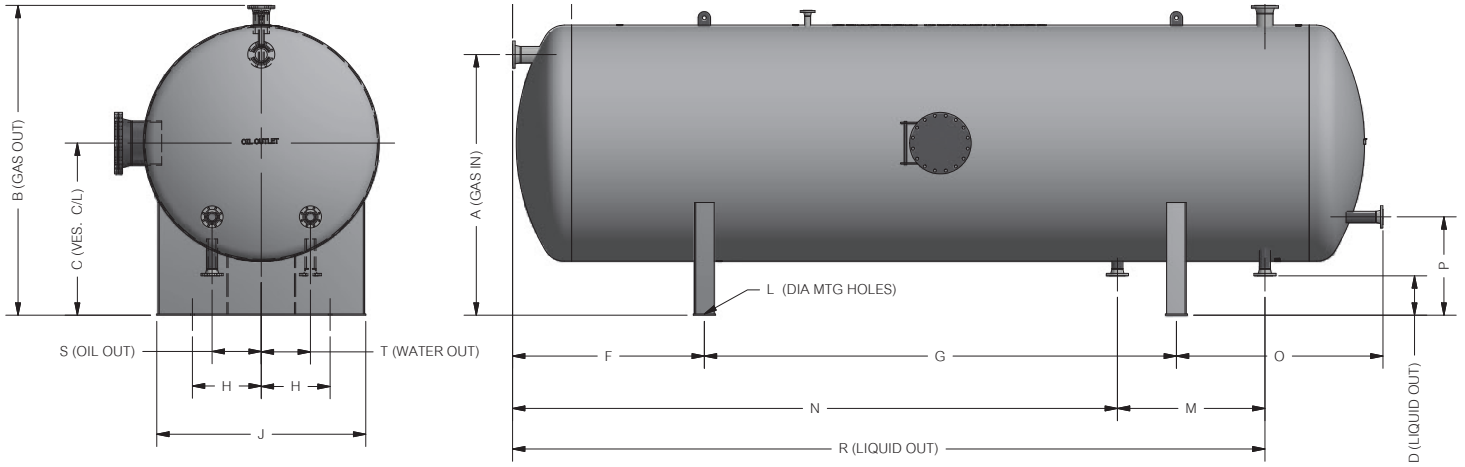
HORIZONTAL 3-PHASE SEPARATORS // SPECIFICATIONS

Horizontal 3-Phase Separator			Part #	Inlet	Oil Out	Water Out	Gas Out	Approx Weight	BPD Liquid Capacity	MM Gas Capacity
DWG #	Size	PSI								
P3200	36"x10'	250	013-3200	4"	2"	2"	4"	2,000	1,890	9.2
P3232	36"x10'	500	013-3232	4"	2"	2"	4"	3,141	2,260	15.12
P3257	36"x10'	1440	013-3257	4"	2"	2"	4"	7,695	1,630	34
P3233	48"x10'	125	013-3233	8"	3"	3"	8"	3,500	3,400	16.4
P3234	48"x10'	250	013-3234	6"	3"	3"	6"	3,500	3,400	16.4
P3235	48"x10'	500	013-3235	6"	3"	3"	6"	5,552	4,000	19.9
P3258	48"x15'	125	013-3258	8"	3"	3"	8"	4,400	6,520	17
P3262	48"x15'	500	013-3262	6"	3"	3"	6"	8,100	6,050	32.2
P3259	48"x15'	1440	013-3259	6"	2"	2"	6"	19,869	5,170	76
P3260	48"x16'	250	013-3260	6"	3"	3"	6"	5,063	6,450	20
P3261	48"x20'	280	013-3261	8"	3"	3"	8"	7,133	8,050	32.8
P3236	72"x15'	125	013-3236	8"	3"	3"	8"	9,750	13,500	18
P3237	72"x15'	250	013-3237	8"	3"	3"	8"	10,147	13,600	33.24
P3238	72"x15'	500	013-3238	6"	3"	3"	6"	21,875	13,600	47.35
P3264	72"x16'	250	013-3264	8"	3"	3"	8"	13,918	14,550	34.62
P3265	72"x16'	278	013-3265	6"	3"	3"	6"	13,918	14,550	45.21
P3263	72"x16'	500	013-3263	6"	3"	3"	6"	21,875	13,600	47.35
P3266	72"x20'	250	013-3266	8"	4"	4"	8"	18,635	18,150	51.83
P3267	72"x20'	500	013-3267	8"	4"	4"	8"	21,383	18,150	72.68
P3239	96"x20'	125	013-3239	10"	4"	4"	10"	12,495	32,200	40
P3240	96"x20'	250	013-3240	10"	4"	4"	10"	25,070	32,200	57.6
P3268	96"x30'	250	013-3268	12"	4"	4"	12"	35,814	48,400	99.8
P3269	96"x30'	278	013-3269	12"	4"	4"	12"	43,718	48,400	112.96
P3270	120"x30'	250	013-3270	12"	6"	6"	12"	53,094	75,500	135.8

***Liquid & Gas Capacities based on 45 API oil; 70F; 1 minute retention for 2-phase; 3 minutes retention for 3-phase.**

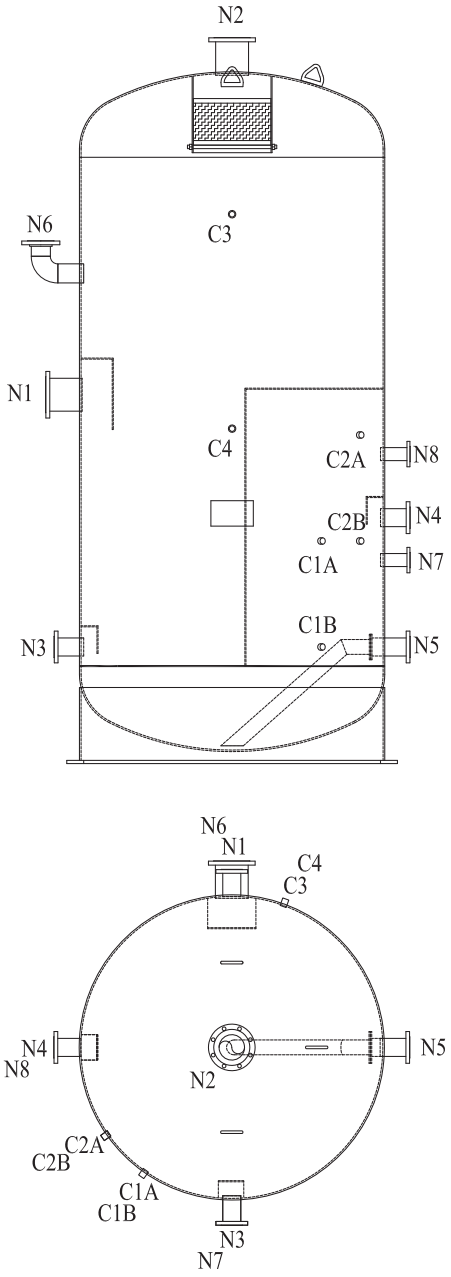
HORIZONTAL 3-PHASE SEPARATORS // SPECIFICATIONS

HORIZONTAL 3PH SEPARATOR																						
DWG #	DESCRIPTION	A	B	C	D	E	F	G	H	J	K	L	M	N/A	O	P	R	S	T	GAS IN	GAS OUT	WATER OUT	OIL OUT
P3233	48" x 10' HORIZ. 3PH SEPARATOR 125PSI	60"	79"	48"	18"	131"	45"	72"	15"	42"	21"	1 1/8"	21"	106 1/2"	N/A	N/A	N/A	N/A	N/A	8"-150#	8"-150#	3"-150#	3"-150#
P3258	48" x 15' HORIZ. 3PH SEPARATOR 125PSI	60"	79"	48"	18"	190"	44"	132	15"	42"	21"	1 1/8"	21"	165 1/2"	N/A	N/A	N/A	N/A	N/A	8"-150#	8"-150#	3"-150#	3"-150#
P3236	72" x 15' HORIZ. 3PH SEPARATOR 125PSI	78"	98"	54"	12"	191"	59"	108"	27 1/2"	65"	23"	1 1/8"	36"	155"	N/A	N/A	N/A	N/A	N/A	8"-150#	8"-150#	3"-150#	2"-150#
P3239	96" x 20' HORIZ. 3PH SEPARATOR 125PSI	109 3/8"	131 3/8"	77 3/8"	23 3/8"	261 5/8"	61.625	184"	24 9/16"	87 15/16"	33.625	1 1/8"	39"	225 5/8"	N/A	N/A	N/A	N/A	N/A	10"-150#	10"-150#	4"-150#	4"-150#
P3231	36" x 10' HORIZ. 3PH SEPARATOR 250PSI	45"	57"	36"	15"	127"	39"	70"	6 1/4"	28 1/2"	15"	1 1/8"	20"	103"	N/A	N/A	N/A	N/A	N/A	6"-150#	6"-150#	2"-150#	2"-150#
P3234	48" x 10' HORIZ. 3PH SEPARATOR 250PSI	60"	79"	48"	18"	131"	45"	72"	15"	42"	21"	1 1/8"	21"	106 1/2"	N/A	N/A	N/A	N/A	N/A	6"-150#	6"-150#	3"-150#	3"-150#
P3260	48" x 16' HORIZ. 3PH SEPARATOR 250PSI	64"	78"	48"	18"	195"	47"	132"	12 15/16"	43 7/8"	17"	1 1/8"	N/A	161"	63 7/8"	28"	N/A	N/A	N/A	4"-150#	4"-150#	4"-150#	2"-150#
P3261	48" x 20' HORIZ. 3PH SEPARATOR 280PSI	64 1/8"	82 13/16"	50 5/16"	31 5/8"	250 1/2"	82 1/2"	120"	15"	46 1/4"	22 1/2"	1 1/8"	54"	169 1/2"	N/A	N/A	N/A	N/A	N/A	10"-150#	6"-150#	4"-150#	4"-150#
P3237	72" x 15' HORIZ. 3PH SEPARATOR 250PSI	88"	111 1/4"	68 5/8"	26 5/8"	195"	61"	112"	24 1/16"	67"	27"	1 1/8"	54"	141"	N/A	N/A	N/A	N/A	N/A	8"-150#	3"-150#	3"-150#	3"-150#
P3264	72" x 16' HORIZ. 3PH SEPARATOR 250PSI	78"	98"	54"	10"	204"	48 1/2"	143"	24 1/2"	65 1/8"	24"	1 1/4"	N/A	162"	44 1/2"	24"	N/A	N/A	N/A	8"-150#	8"-150#	3"-150#	3"-150#
P3265	72" x 16' HORIZ. 3PH SEPARATOR 278PSI	90.25"	121.375	64 1/4"	22 1/2"	199.375	46 7/8"	146"	21 3/8"	66 3/4"	23 7/8"	1 1/4"	N/A	N/A	N/A	N/A	209 7/8"	21 3/8"	21 3/8"	6"-150#	6"-150#	3"-150#	3"-150#
P3266	72" x 20' HORIZ. 3PH SEPARATOR 250PSI	95 3/8"	113 5/8"	70"	26 7/16"	251"	49"	188"	21 1/16"	66 3/16"	23"	1 1/8"	N/A	N/A	N/A	N/A	255"	6"	6"	8"-150#	8"-150#	4"-150#	4"-150#
P3240	96" x 20' HORIZ. 3PH SEPARATOR 250PSI	109 3/8"	131 3/8"	77 3/8"	23 3/8"	261 5/8"	61.625	184"	24 9/16"	87 15/16"	33.625	1 1/8"	39"	225 5/8"	N/A	N/A	N/A	N/A	N/A	10"-150#	10"-150#	4"-150#	4"-150#
P3268	96" x 30' HORIZ. 3PH SEPARATOR 250PSI	113 5/8"	135"	77"	N/A	316 5/8"	109 5/8"	198"	37"	86 1/4"	28 5/8"	1 3/8"	N/A	N/A	106 7/16"	41"	N/A	20"	20"	12"-150#	12"-150#	4"-150#	4"-150#
P3269	96" x 30' HORIZ. 3PH SEPARATOR 278PSI	114 1/4"	142 1/4"	84 1/4"	29 13/16"	367"	85 1/8"	253 3/4"	37"	86 1/4"	32"	1 3/8"	N/A	N/A	N/A	N/A	386"	7"	7"	12"-150#	12"-150#	4"-150#	4"-150#
P3270	120" x 10' HORIZ. 3PH SEPARATOR 250PSI	126"	160"	90"	24"	370 1/2"	75 1/2"	278"	43 5/16"	107 5/8"	34 1/2"	1 1/2"	46"	340 1/2"	N/A	N/A	N/A	N/A	N/A	12"-150#	12"-150#	6"-150#	6"-150#
P3232	36" x 10' HORIZ. 3PH SEPARATOR 500PSI	38	51 13/16"	30"	11"	126"	27 5/8"	91"	8"	33 15/16"	13"	1 1/8"	N/A	N/A	N/A	N/A	126 1/8"	5 5/8"	7 1/8"	4"-300#	4"-300#	2"-300#	2"-300#
P3235	48" x 10' HORIZ. 3PH SEPARATOR 500PSI	60"	79"	48"	18"	131"	45"	72"	15"	42"	21"	1 1/8"	21"	106 1/2"	N/A	N/A	N/A	N/A	N/A	6"-300#	6"-300#	3"-300#	3"-300#
P3262	48" x 15' HORIZ. 3PH SEPARATOR 500PSI	61 1/8"	78 1/8"	48 1/8"	18 1/8"	185 1/4"	59 1/4"	104"	10 1/8"	44 5/16"	21 1/4"	1 1/8"	24"	153 1/4"	N/A	N/A	N/A	N/A	N/A	6"-300#	6"-300#	3"-300#	3"-300#
P3238	72" x 15' HORIZ. 3PH SEPARATOR 500PSI	88"	111 1/4"	68 5/8"	26 5/8"	195"	61"	112"	24 1/16"	67"	27"	1 1/8"	54"	141"	N/A	N/A	N/A	N/A	N/A	6"-300#	6"-300#	3"-300#	3"-300#
P3263	72" x 16' HORIZ. 3PH SEPARATOR 500PSI	84"	102"	60"	18"	200 1/2"	62 1/2"	116"	20 7/16"	64 7/8"	24 1/2"	1 1/8"	24"	168 1/2"	N/A	N/A	N/A	N/A	N/A	6"-300#	6"-300#	3"-300#	3"-300#
P3267	72" x 20' HORIZ. 3PH SEPARATOR 500PSI	97 3/8"	114"	72"	30"	251"	49"	188"	20 3/8"	64 13/16"	23	1 1/8"	N/A	N/A	N/A	N/A	255"	6"	6"	8"-300#	8"300#	4"-300#	4"-300#
P3257	36" x 10' HORIZ. 3PH SEPARATOR 1440PSI	50 3/8"	66 5/8"	42 3/8"	17 7/16"	126"	32"	91"	10 1/2"	32 1/2"	18"	1 1/8"	16"	115"	N/A	N/A	N/A	N/A	N/A	4"-600#	4"-600#	2"-3000#	2"-3000#
P3259	48" x 15' HORIZ. 3PH SEPARATOR 1440PSI	51"	71"	39"	25 7/8"	189"	56"	108"	15"	44 1/2"	20"	1 1/8"	39"	152"	N/A	N/A	N/A	N/A	N/A	6"-600#	6"-600#	2"-3000#	2"-3000#



VERTICAL 2&3-PHASE SEPARATORS // SPECIFICATIONS





DRAGON STANDARD VERTICAL 3-PHASE SEPARATOR FEATURES
VERTICAL CYLINDER W/ WELDED STEEL SKIRT & BASE RING
INLET DEFLECTOR
WIRE MESH MIST EXTRACTOR
COMMERCIAL BLAST w/ POLYURETHANE PAINT
RELIEF VALVE SET @ MAWP (THERMAL RELIEF ONLY)
LIFTING EYES
CALMING BAFFLE
SIPHON DRAIN

DRAGON STANDARD VERTICAL 3-PHASE SEPARATOR NOZZLE SCHEDULE	
N1	INLET
N2	GAS OUTLET
N3	WATER OUTLET
N4	OIL OUTLET
N5	DRAIN
N6	RELIEF
N7	WATER LLC
N8	OIL LLC
C1A	WATER LEVEL GAUGE
C1B	WATER LEVEL GAUGE
C2A	OIL LEVEL GAUGE
C2B	OIL LEVEL GAUGE
C3	PRESS. INDICATOR/SUPPLY
C4	TEMPERATURE INDICATOR

VERTICAL 2&3-PHASE SEPARATORS // SPECIFICATIONS

Vertical 3-Phase Separator			Part #	Inlet	Oil Out	Water Out	Gas Out	Approx Weight	BPD Liquid Capacity	MM Gas Capacity
DWG #	Size	PSI								
P3214	30"x10'	250	013-3214	4"	2"	2"	4"	1,075	1,400	5.7
P3216	36"x10'	125	013-3216	6"	2"	2"	6"	1,325	2,020	6.1
P3217	36"x10'	250	013-3217	4"	2"	2"	4"	1,325	2,020	8.2
P3246	36"x10'	500	013-3246	4"	2"	2"	4"	3,141	2,200	6
P3247	36"x10'	1440	013-3247	4"	2"	2"	4"	7,557	1,775	25
P3219	48"x10'	125	013-3219	8"	3"	3"	8"	1,900	2,150	10.7
P3220	48"x10'	250	013-3220	6"	3"	3"	6"	1,900	2,150	14.4
P3221	48"x10'	500	013-3221	6"	3"	3"	6"	1,996	2,900	12

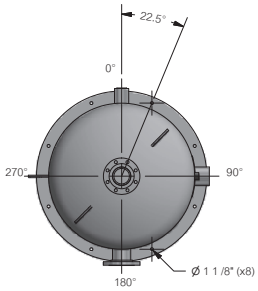
Vertical 2-Phase Separator			Part #	Inlet	Liquid Out	Gas Out	Approx Weight	BPD Liquid Capacity	MM Gas Capacity
DWG #	Size	PSI							
P3248	30"x10'	250	013-3248	4"	2"	4"	1,025	2,700	5.7
P3249	36"x10'	500	013-3249	4"	2"	4"	2,713	2,200	6
P3250	36"x10'	1440	013-3250	4"	2"	4"	7,557	3,045	25
P3251	48"x10'	125	013-3251	4"	2"	4"	1,825	6,900	10.7
P3252	48"x10'	250	013-3252	6"	3"	6"	1,825	6,900	14.4
2726	48"x10'	1440	013-0617-1	6"	2"	6"	14,118	5,445	46

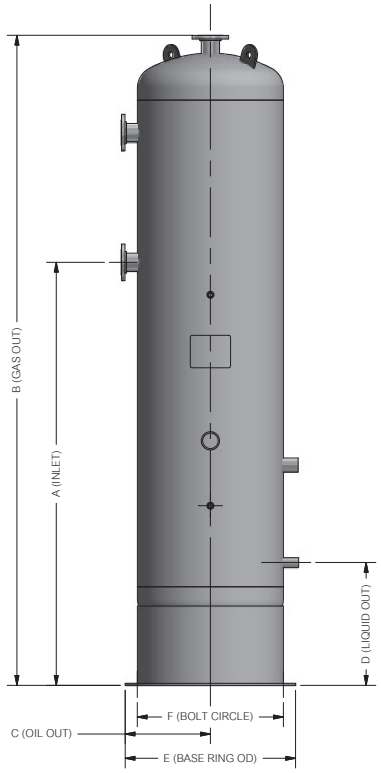
***Liquid & Gas Capacities based on 45 API oil; 70F; 1 minute retention for 2-phase; 3 minutes retention for 3-phase.**

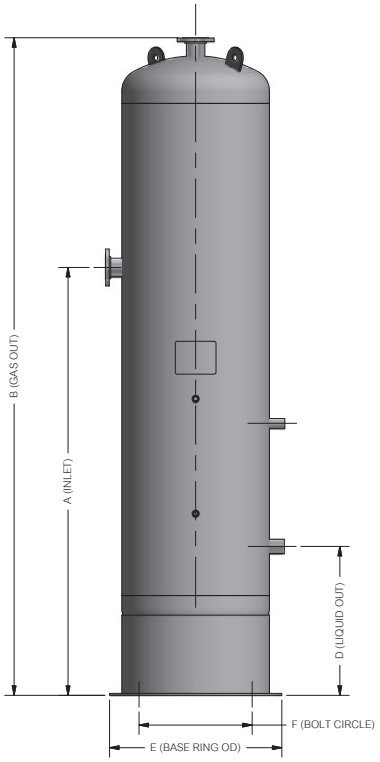
VERTICAL 2&3-PHASE SEPARATORS // SPECIFICATIONS

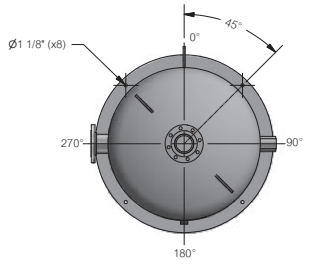
VERTICAL 2PH SEPARATORS							
DWG#	DESCRIPTION	A	B	C	D	E	F
P3248	30" x 10' VERT. SEPARATOR 250PSI	98"	159 11/16"	N/A	30"	42"	36"
P3249	36" x 10' VERT. SEPARATOR 500PSI	86 7/16"	154 7/16"	N/A	22 7/16"	42"	39"
P3250	36" x 10' VERT. SEPARATOR 1440PSI	86 7/16"	154 7/16"	N/A	22/7/16"	42"	39"
P3251	48" x 10' VERT. SEPARATOR 125PSI	46 1/2"	86"	N/A	19 1/4"	50"	46"
P3252	48" x 10' VERT. SEPARATOR 250PSI	46 1/4"	86"	N/A	19 1/4"	50"	46"

VERTICAL 3PH SEPARATORS							
DWG#	DESCRIPTION	A	B	C	D	E	F
P3214	30" x 10' VERT. SEPARATOR 250PSI	98"	159 11/16"	59"	30"	42"	36"
P3216	36" x 10' VERT. SEPARATOR 125PSI	98"	159 11/16"	59"	30"	42"	36"
P3217	36" x 10' VERT. SEPARATOR 250PSI	117 5/8"	165 13/16"	62 5/8"	32 5/8"	43 1/2"	40 1/2"
P3219	48" x 10' VERT. SEPARATOR 125PSI	108 1/8"	168 1/8"	59 1/8"	30 1/8"	56"	53"
P3220	48" x 10' VERT. SEPARATOR 250PSI	46 1/4"	86"	59 1/8"	30 1/8"	56"	53"
P3221	48" x 10' VERT. SEPARATOR 500PSI	46 1/4"	86"	59 1/8"	30 1/8"	56"	53"
P3246	36" x 10' VERT. SEPARATOR 500PSI	117 5/8"	165 13/16"	62 5/8"	32 5/8"	43 1/2"	40 1/2"
P3247	36" x 10' VERT. SEPARATOR 1440PSI	117 5/8"	165 13/16"	62 5/8"	32 5/8"	43 1/2"	40 1/2"









HORIZONTAL HEATER TREATER // SPECIFICATIONS





Horizontal Heater Treater			Part #	Inlet	Oil Out	Water Out	Gas Out	Approx Weight	Burner Size	BPD Liquid Capacity	MM Gas Capacity
DWG #	Size	PSI									
P3205	48"x20'	125	013-3205	4"	3"	3"	4"	8,470	500MBTU	760	0.5
P3206	48"x20'	250	013-3206	4"	3"	3"	4"	10,710	500MBTU	760	0.5
P3207	72"x20'	125	013-3207	6"	3"	3"	6"	11,777	1.0MMBTU	2,700	1
P3208	72"x20'	250	013-3208	6"	3"	3"	6"	23,506	1.0MMBTU	3,240	1
P3209	96"x20'	125	013-3209	8"	4"	4"	8"	27,845	1.5MMBTU	3,900	2
P3210	96"x20'	250	013-3210	8"	4"	4"	8"	34,077	2.0MMBTU	4,700	2
P3241	120"x20' SB	125	013-3241	8"	4"	4"	8"	43,174	2.25MMBTU	7,000	3
P3242	120"x20' DB	125	013-3241	8"	4"	4"	8"	56,511	4.0MMBTU	7,000	3

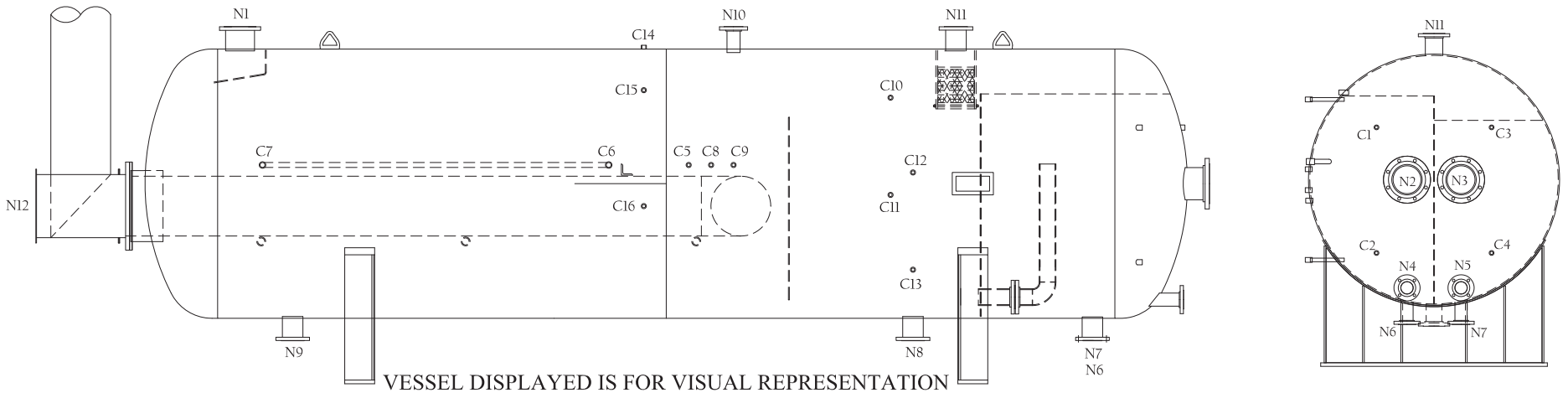
***Liquid & Gas Capacities based on 45 API oil; 70F; 1 minute retention for 2-phase; 3 minutes retention for 3-phase.**

HORIZONTAL HEATER TREATER // SPECIFICATIONS

DRAGON STANDARD HORIZONTAL HEATER TREATER NOZZLE SCHEDULE	
N1	INLET
N2	WATER LLC
N3	OIL LLC
N4	WATER OUTLET
N5	OIL OUTLET
N6	WATER DRAIN
N7	OIL DRAIN
N8	DRAIN
N9	DRAIN
N10	PSV
N11	GAS OUTLET
N12	FIREBOX

C1	WATER LEVEL GAUGE
C2	WATER LEVEL GAUGE
C3	OIL LEVEL GAUGE
C4	OIL LEVEL GAUGE
C5	TSH CONNECTION
C6	PRE-HEAT INLET
C7	PRE-HEAT OUTLET
C8	TEMPERATURE CONTROLLER
C9	TEMPERATURE INDICATOR
C10	GAS/OIL INTERFACE LEVEL GAUGE
C11	GAS/OIL INTERFACE LEVEL GAUGE
C12	OIL/WATER INTERFACE LEVEL GAUGE
C13	OIL/WATER INTERFACE LEVEL GAUGE
C14	PRESSURE GAUGE
C15	LSL/LSH BRIDLE TOP
C16	LSL/LSH BRIDLE BOTTOM

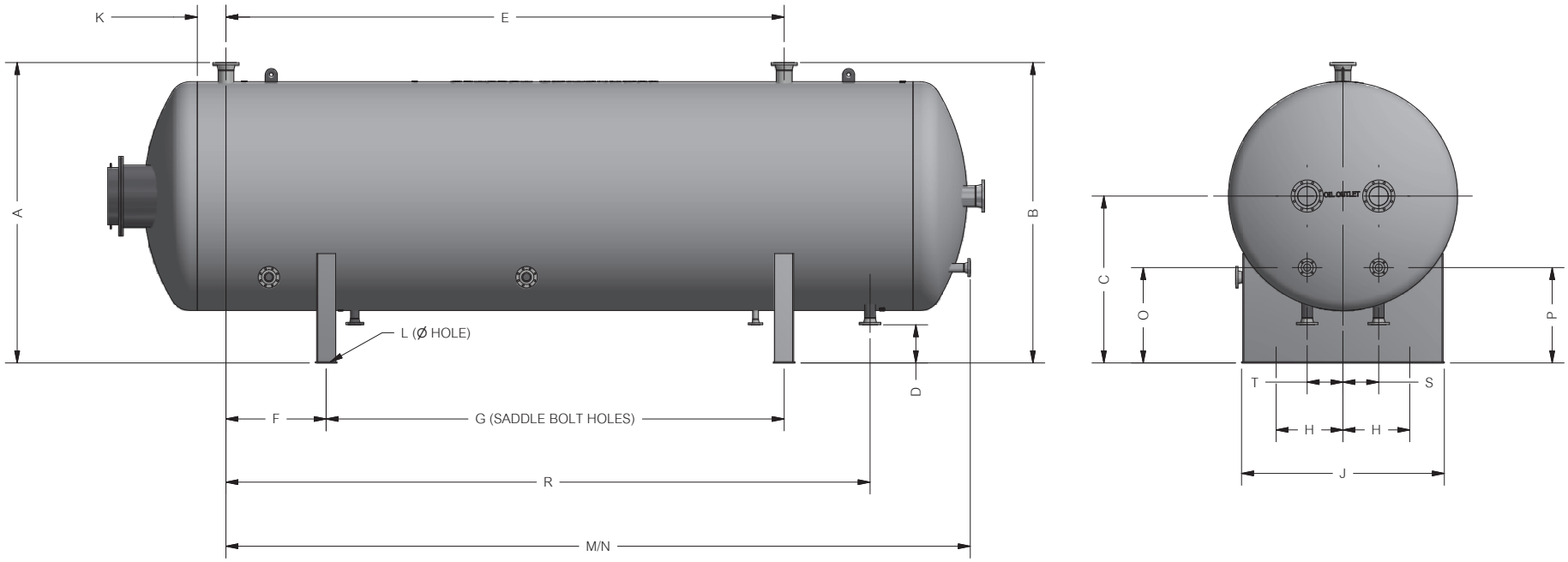
DRAGON STANDARD HORIZONTAL HEATER TREATER FEATURES
HORIZONTAL CYLINDER W/ WELDED STEEL SADDLES
REMOVABLE BURNER STACK WITH CLAMP, GASKETS, BOLTS
REMOVABLE FIRETUBE
INLET DIVERTER
HEAT RETENTION BAFFLE
HIGH EFFICIENCY FLAME ARRESTOR w/ BURNER & PILOT ASSY.
WIRE MESH MIST EXTRACTOR
COMMERCIAL BLAST w/ POLYURETHANE PAINT
RELIEF VALVE SET @ MAWP (THERMAL RELIEF ONLY)
LIFTING EYES
PRE-HEATED FUEL GAS
VORTEX BREAKERS



VESSEL DISPLAYED IS FOR VISUAL REPRESENTATION ONLY. ACTUAL VESSEL ORDERED MAY VARY.

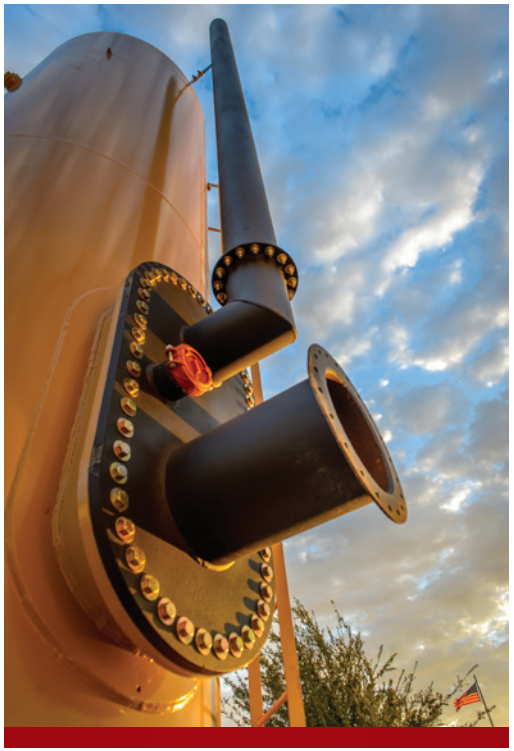
HORIZONTAL HEATER TREATER // SPECIFICATIONS

HORIZONTAL HEATED SEPARATORS																		
DRAWING#	DESCRIPTION	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	R	S	T
P3205	48" X 20' HORIZ. HT SEPARATOR 125PSI	64"	64"	36"	N/A	188"	32 7/8"	154 3/4"	16 1/4"	44 7/8"	10"	1"	242 3/4"	242 3/4"	18 3/8"	18 3/8"	N/A	6 1/4"	10"
P3206	48" X 15' HORIZ HT. SEPARATOR 250PSI	64"	64"	48"	N/A	122"	26"	104"	13 3/16"	44 5/16"	12"	1 1/8"	185 1/16"	185 1/16"	32"	32"	N/A	8"	9"
P3207	72" X 20' HORIZ. HT SEPARATOR 125PSI	95 1/2"	95 1/2"	53 3/4"	N/A	188"	33 1/2"	161"	26 1/2"	65"	6"	1 1/8"	251 7/8"	251 7/8"	22 1/2"	22 1/2"	N/A	7 3/4"	7 3/4"
P3208	72" X 20' HORIZ HT. SEPARATOR 250PSI	104 5/8"	104 5/8"	60 5/8"	N/A	186"	20"	164"	20 15/16"	65 7/16"	18"	1 1/8"	246 1/16"	246 1/16"	36"	36"	N/A	8"	8"
P3209	96" X 20' HORIZ. HT SEPARATOR 125PSI	113 3/4"	113 3/4"	60"	N/A	210"	32 3/4"	150 1/2"	32"	85 3/4"	12"	1 3/8"	251 1/2"	251 1/2"	25"	25"	N/A	9"	9"
P3210	96" X 20' HORIZ HT. SEPARATOR 250PSI	113 3/4"	113 3/4"	60"	N/A	210"	32 3/4"	150 1/2"	32"	85 3/4"	12"	1 1/8"	251 1/2"	251 1/2"	25"	25"	N/A	9"	9"
P3241	120" X 20' HORIZ. HT SEPARATOR 125PSI	155 7/8"	155 7/8"	90 1/4"	24 5/8"	210"	26"	164"	41 7/16"	107 5/8"	12"	1"	N/A	N/A	N/A	N/A	222"	8"	8"
P3242	120" X 20' HORIZ HT. SEPARATOR DUAL BURNER 125PSI	160 9/16"	160 9/16"	94 3/4"	39 1/8"	214"	26"	164"	33 1/2"	107 5/8"	12"	2 1/8"	N/A	N/A	N/A	N/A	222"	8"	8"



VERTICAL HEATER TREATER // SPECIFICATIONS





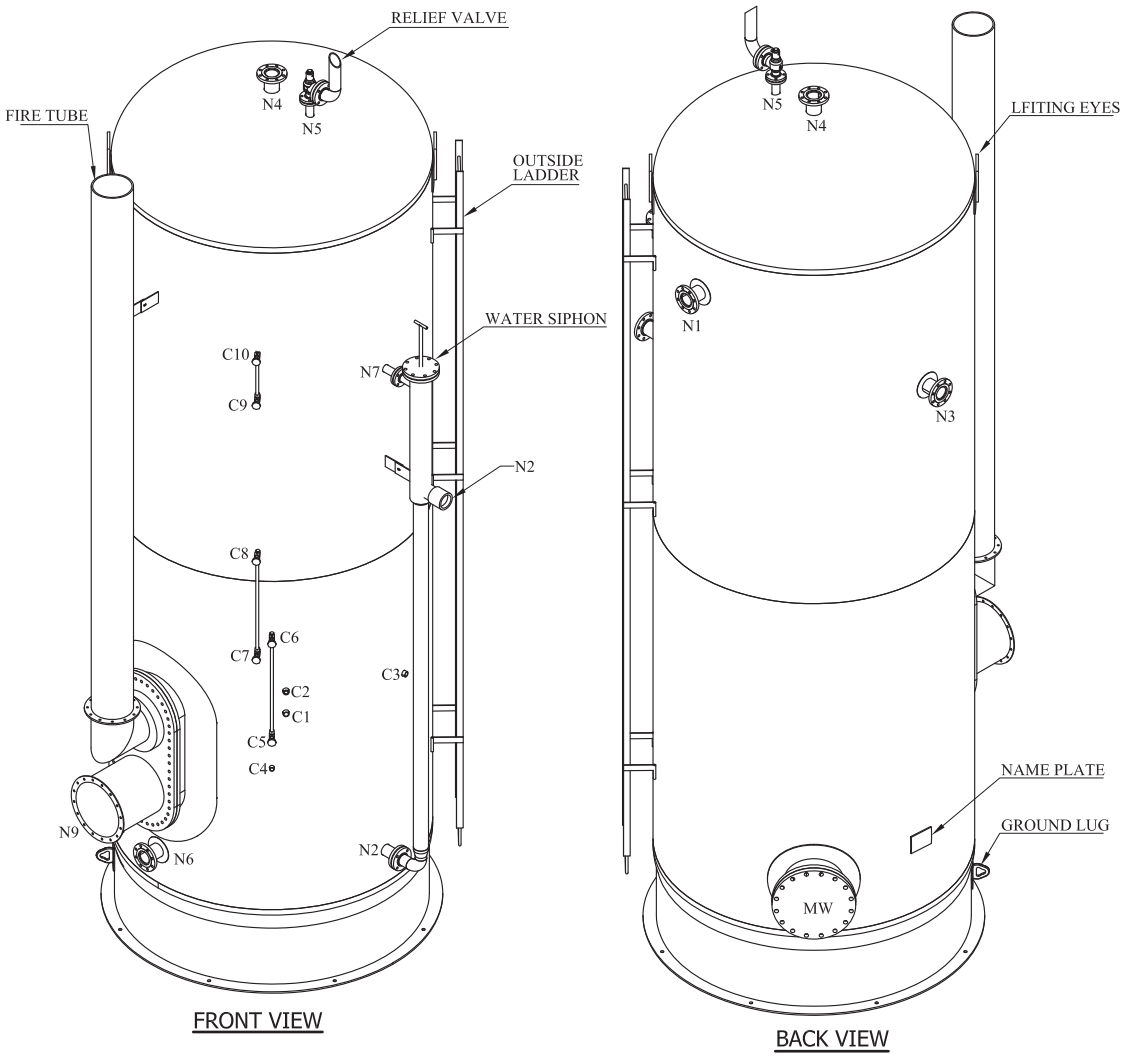
Vertical Heater Treater			Part #	Inlet	Oil Out	Water Out	Gas Out	Approx Weight	Burner Size	BPD Liquid Capacity	MM Gas Capacity
DWG #	Size	PSI									
P3202	48"x20'	125	013-3202	4"	3"	3"	4"	8,348	500MBTU	480	0.5
P3203	72"x20'	125	013-3203	4"	4"	4"	4"	10,810	500MBTU	740	1
P3204	96"x20'	125	013-3204	6"	4"	4"	6"	17,056	750MBTU	1,400	2

***Liquid & Gas Capacities based on 45 API oil; 70F; 1 minute retention for 2-phase; 3 minutes retention for 3-phase.**

VERTICAL HEATER TREATER // SPECIFICATIONS

DRAGON STANDARD VERTICAL HEATER TREATER NOZZLE SCHEDULE	
N1	INLET
N2	WATER OUTLET
N3	OIL OUTLET
N4	GAS OUTLET
N5	RELIEF
N6	DRAIN
N7	GAS EQUALIZER
N8	FIREBOX
C1	TEMP. CONTROL
C2	TEMP. INDICATOR
C3	PRESS. INDICATOR
C4	SPARE
C5	WATER LEVEL A
C6	WATER LEVEL B
C7	WATER/OIL LEVEL A
C8	WATER/OIL LEVEL B
C9	OIL LEVEL A
C10	OIL LEVEL B
MW	MANWAY

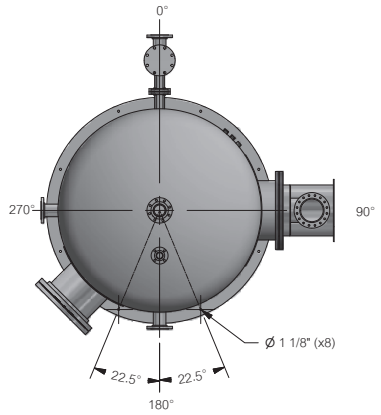
DRAGON STANDARD VERTICAL HEATER TREATER FEATURES
VERTICAL CYLINDER W/ WELDED STEEL SKIRT & BASE RING
REMOVABLE BURNER STACK WITH CLAMP, GASKETS, BOLTS
REMOVABLE FIRETUBE
INLET DEGASSING SECTION
PERFORATED DISTRIBUTION BAFFLE
HIGH EFFICIENCY FLAME ARRESTOR w/ BURNER & PILOT ASSY.
OUTSIDE LADDER
MANWAY IN LOWER SECTION
WIRE MESH MIST EXTRACTOR
EXTERNAL ADJUSTABLE WATER SIPHON TUBE
COMMERCIAL BLAST w/ POLYURETHANE PAINT
RELIEF VALVE SET @ MAWP (THERMAL RELIEF ONLY)
LIFTING EYES

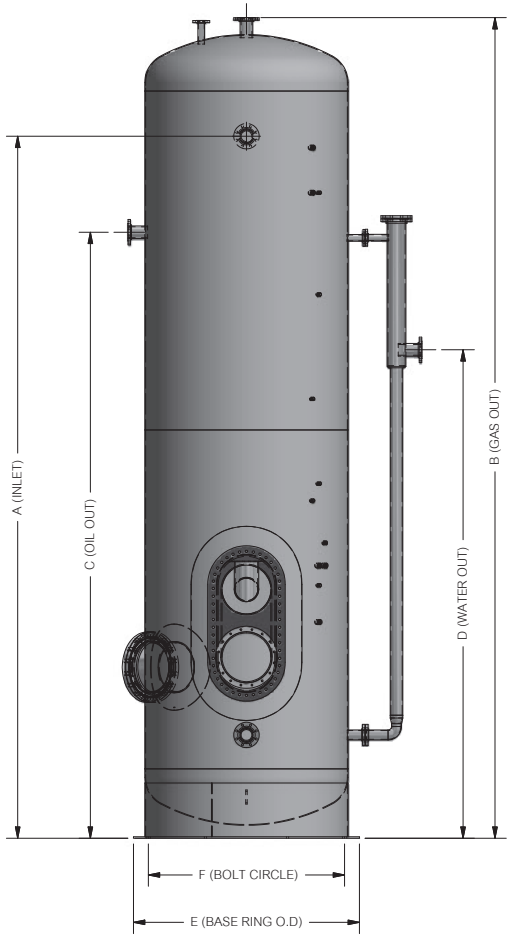


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ACTUAL VESSEL ORDERED MAY VARY.

VERTICAL HEATER TREATER // SPECIFICATIONS

VERTICAL HEATED SEPARATORS							
DWG#	DESCRIPTION	A	B	C	D	E	F
P3202	48" x 20' VERT. HT SEPARATOR	253 1/2"	289 1/2"	219 1/2"	176 1/2"	55"	52"
P3203	72" x 20' VERT. HT SEPARATOR	248"	290 1/8"	214"	176"	80"	76"
P3204	96" x 20' VERT. HT SEPARATOR	252 3/8"	300 5/8"	218 3/8"	180 3/8"	102"	99"





LINE HEATER // SPECIFICATIONS

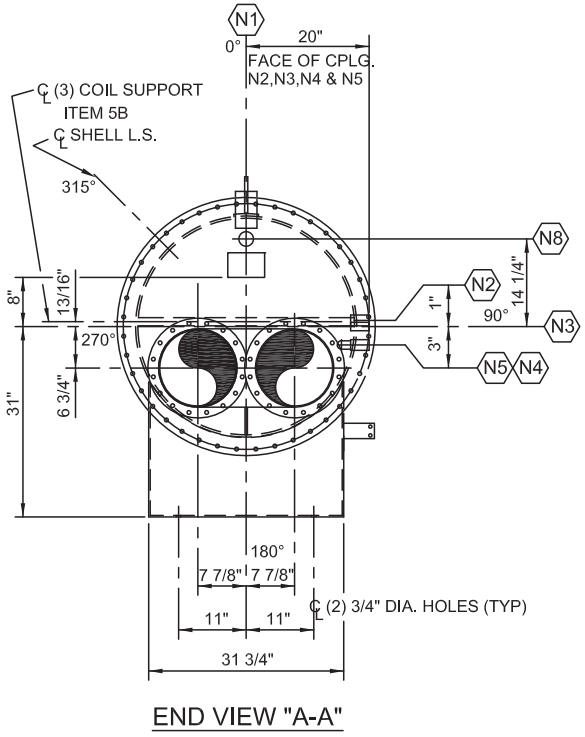


List of Accessories	
Tag ID	**Description**
PCV-100	Regulator Belgas P627 1" NPT 35-80#
PCV-101	Regulator Belgas P50 .25" NPT 5-35#
PCV-102	Regulator Belgas P-37 .50" NPT 0 - 30#
STR-1000	Strainer Y-Type 1" NPT 3000# WP
PSV-1000	Relief Valve 1" x 1" NPT Set @ 125#
PI-1000	Pressure Indicator 0 - 160#
PI-1001	Pressure Indicator 0 - 30#
PI-1002	Pressure Indicator 0 - 15#
SV-1000	1" ASCO 24 Volt 2 Way Solenoid Valve
SV-1001	1" ASCO 24 Volt 2 Way Solenoid Valve
SV-1002	1/4" ASCO 24 Volt 2 Way Solenoid Valve
TCV-1000	1" Kimray Temperature Control Valve
SH-1000	12" Bird Cone
FGS-1000	Scrubber Fuel Gas 10" x 25" x 250# WP
1" D2S	Valve, Ball, Floating 1" x 1"
1/4" D2S	Valve, Ball, Floating 1/4" x 1/4"
1/4" D5S	Valve, Needle
TC-01	Kimray Temperature Controller T-12 (HAA)
TW-01	Kimray Thermowell 12" (HCC)
TI-01	Temperature Indicator, 3" Dial 0 - 250 F
TW-01A	Thermowell 3/4" x 1/2" x 6" lg

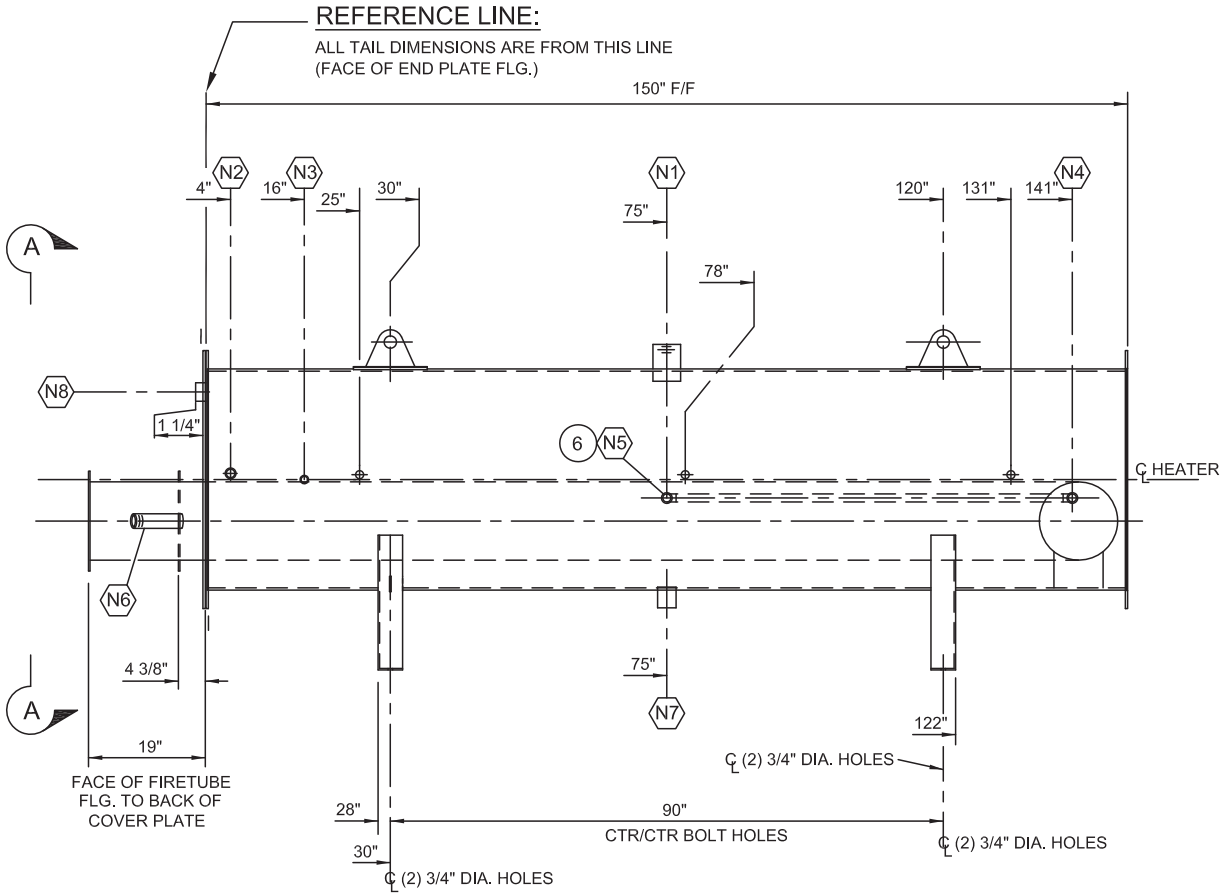
Line Heater			Part #	Inlet	Outlet	Approx Weight	BPD Liquid Capacity
DWG #	Size	PSI					
2474	36"x12'	0	013-0084	2"	2"	4,200	2,500

***Liquid & Gas Capacities based on 45 API oil; 70F; 1 minute retention for 2-phase; 3 minutes retention for 3-phase.**

LINE HEATER // SPECIFICATIONS



END VIEW "A-A"



VAPOR RECOVERY TOWER // SPECIFICATIONS





VRT			Part #	Inlet	Outlet	Gas Out	Drain	Approx Weight	Liquid Capacity *15 min ret time
DWG #	Size	PSI							
1707	36"x30'	125	013-0602	4"	4"	4"	3"	5,608	2,800 BPD
2093	36"x40'	125	013-0602-1	4"	4"	4"	3"	7,827	4,000 BPD
2298	48"x30'	75	013-0604-1	4"	4"	4"	3"	8,975	5,161 BPD
2660	48"x40'	75	013-0604-2	4"	4"	4"	3"	11,750	7,200 BPD
2729	60"x30'	75	013-0607	4"	4"	10"	3"	11,822	8,064 BPD
3106	60"x40'	75	013-3106	6"	6"	6"	2"	12,639	11,424 BPD

***We can develop the perfect size for your application.**

FREE WATER KNOCKOUT // SPECIFICATIONS





FWKO			Part #	Inlet	Oil Out	Water Out	Gas Out	Approx Weight	BPD Liquid Capacity	MM Gas Capacity
DWG #	Size	PSI								
P3243	72x15	125	013-3243	3"	3"	3"	2"	9,236	9,815	5
P3244	72x20	125	013-3244	3"	4"	4"	2"	11,200	12,652	5
P3211	96x20	125	013-3211	8"	4"	4"	3"	15,400	23,361	8.9

***Liquid & Gas Capacities based on 45 API oil; 70F; 1 minute retention for 2-phase; 3 minutes retention for 3-phase.**

HDPE POLY PIPE





- Manufactured with bimodal, high molecular weight PE4710 resin
- Meets ASTM F2619 and F714 standards
- Applications - oil and gas gathering, crude transmission, saltwater disposal.
- 2” to 16” IPS Pipe Diameter; 7 to 17 DR
- 2” to 4” Coil Sizes; 6” to 16” in 40’ or 50’ Stick Length

STANDARD TRUCKLOAD QUANTITIES

>> COILED PIPE

Pipe Size	Pipe DR	Coil Length	Coils per Truck	Footage per Truck
2” IPS	7-17	2000’	16	32,000
3” IPS	7-17	1000’	13	13,000
4” IPS	7-17	800’	12	9,600

>> PIPE JOINTS (50’ STANDARD)

Pipe Size	Pipe DR	Joints per Bundle	Bundles per Truck	Footage per Truck
6” IPS	7	13	9	5,850
	9	13	11	7,150
	11	20	9	9,000
	17	20	10	10,000
8” IPS	7	9	8	3,600
	9	9	10	4,500
	11-17	9	12	5,400
10” IPS	7	N/A	45 joints	2,250
	9	N/A	54 joints	2,700
	11-17	N/A	72 joints	3,600
12” IPS	7	N/A	32 joints	1,600
	9	N/A	40 joints	2,000
	11	N/A	48 joints	2,400
	17	N/A	56 joints	2,800
16” IPS	7	N/A	21 joints	1050
	9	N/A	24 joints	1200
	11-17	N/A	30 joints	1500

*2’-4” IPS joints and custom joint and coil lengths available by special order.

PRESSURE PIPE OFFERINGS

PE4710 Pressure Rating*			333 psi	317 psi	250 psi	200 psi	160 psi	138 psi	125psi
IPS SIZE	AVG OD (in)	DR	7	7.3	9	11	13.5	15.5	17
		Min wall, in	0.339	0.325	0.264	0.216	0.176	0.153	0.140
2	2.38	Avg ID, in	1.656	1.685	1.816	1.917	2.002	2.050	2.079
		Weight, lb/ft	0.950	0.920	0.770	0.642	0.534	0.470	0.431
		Min wall, in	0.500	0.479	0.389	0.318	0.259	0.226	0.206
3	3.50	Avg ID, in	2.440	2.484	2.676	2.825	2.950	3.021	3.064
		Weight, lb/ft	2.060	1.990	1.664	1.395	1.160	1.020	0.940
		Min wall, in	0.643	0.616	0.500	0.409	0.333	0.290	0.265
4	4.50	Avg ID, in	3.137	3.193	3.440	3.633	3.793	3.885	3.939
		Weight, lb/ft	3.402	3.290	2.751	2.310	1.920	1.687	1.550
		Min wall, in	0.946	0.908	0.736	0.602	0.491	0.427	0.390
6	6.625	Avg ID, in	4.619	4.701	5.064	5.348	5.585	5.719	5.799
		Weight, lb/ft	7.374	7.130	5.963	5.000	4.152	3.656	3.360
		Min wall, in	1.232	1.182	0.958	0.784	0.639	0.556	0.507
8	8.625	Avg ID, in	6.013	6.120	6.593	6.963	7.271	7.445	7.549
		Weight, lb/ft	12.498	12.070	10.110	8.470	7.040	6.197	5.690
		Min wall, in	1.536	1.473	1.194	0.977	0.796	0.694	0.632
10	10.75	Avg ID, in	7.494	7.628	8.218	8.678	9.062	9.280	9.409
		Weight, lb/ft	19.416	18.750	15.700	13.160	10.932	9.626	8.834
		Min wall, in	1.821	1.747	1.417	1.159	0.944	0.823	0.750
12	12.75	Avg ID, in	8.889	9.047	9.747	10.293	10.748	11.006	11.160
		Weight, lb/ft	27.312	26.380	22.085	18.510	15.380	13.530	12.430
		Min wall, in	2.000	1.918	1.556	1.273	1.037	0.903	0.824
14	14	Avg ID, in	9.760	9.934	10.702	11.302	11.801	12.085	12.254
		Weight, lb/ft	32.930	31.810	26.630	22.320	18.540	16.310	14.983
		Min wall, in	2.286	2.192	1.778	1.455	1.185	1.032	0.941
16	16	Avg ID, in	11.154	11.353	12.231	12.916	13.487	13.812	14.005
		Weight, lb/ft	43.010	41.550	34.780	29.150	24.220	21.300	19.570

*Pressure rating based on water at 73° F | Custom sizes available by special order.

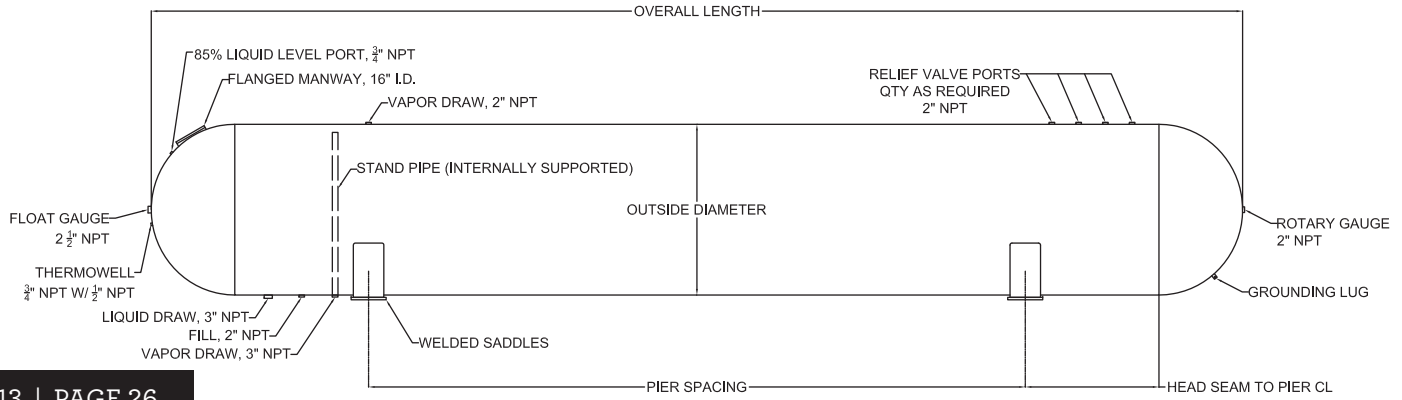
Modern Polymers HDPE distributed by Dragon Products

LPG TANKS // SPECIFICATIONS



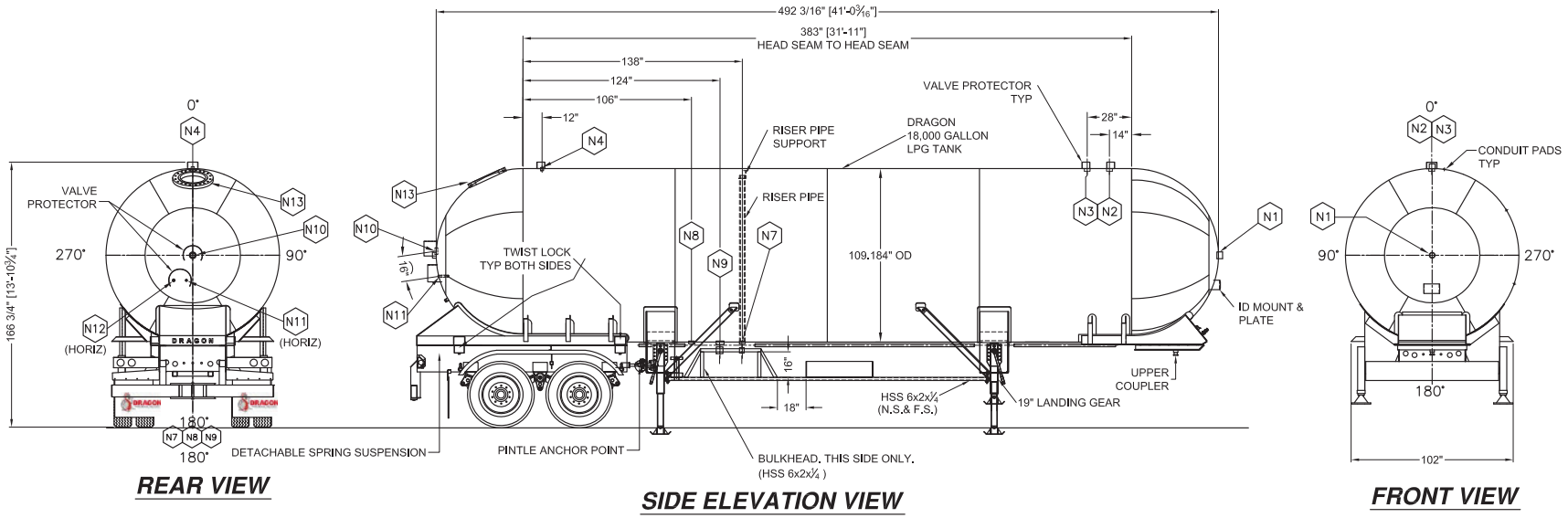


LPG			Part #	Inlet	Outlet	Diameter	Length	Approx Weight	BPD Liquid Capacity	MM Gas Capacity
DWG #	Size	PSI								
1936	12k	250	011-0300	2"	3"	84"	45'	19,500	10,200	0.37
2047	18k PortAPak	250	011-0251	2"	3"	109"	41'	37,000	15,300	0.56
1933	18k	250	011-0210	3"	3"	109"	41'	31,000	15,300	0.56
2076	30k 109"OD	250	011-0180	2"	3"	109"	66'	50,000	25,500	0.93
1505	30k 131"OD	250	011-0175	2"	3"	132"	47'	50,000	25,500	0.93
2275	60k	250	011-0179	2"	3"	132"	90'	90,000	51,000	1.86
2503	90k	250	011-0184	2"	3"	132"	135'	150,000	76,500	2.78



PORTAPAK // SPECIFICATIONS





REAR VIEW | **SIDE ELEVATION VIEW** | **FRONT VIEW**

GAS LIFT COMPRESSORS // SPECIFICATIONS







Compressor			Part #	Inlet	Outlet	Approx Weight	MM Gas Capacity
DWG #	Size	Engine					
P3253	KTA19 3-Stage	Cummins	013-0405	6"	2"	43,000	2.38
P3254	3306BTA 3-Stage	Cat	013-0401	4"	2"	30,000	1.07
P3255	3306NA 3-Stage	Cat	013-0403	4"	2"	15,600	0.73
P3256	3304NA 3-Stage	Cat	013-0402	4"	2"	15,100	0.38

DESIGN CAPACITIES	95 BHP	145 BHP	203 BHP	380 BHP
PRESSURE RANGE	22-55PSIG Suction 1250PSIG Discharge	22-55PSIG Suction 1250PSIG Discharge	25-70PSIG Suction 1600PSIG Discharge	22-55PSIG Suction 1490PSIG Discharge
UNIT WEIGHT	15,100lbs	15,600lbs	30,000lbs	43,000lbs
LENGTH FT.	14'-5"	14'-5"	22'-4 1/2"	22'-4 1/2"
WIDTH FT.	8'-1 1/2"	8'-1 1/2"	10'-6"	13'-10 1/4"
HEIGHT FT.	7'-5 5/8"	7'-5 5/8"	12'-9 3/16	14'-5 1/2"

LACT UNITS // SPECIFICATIONS

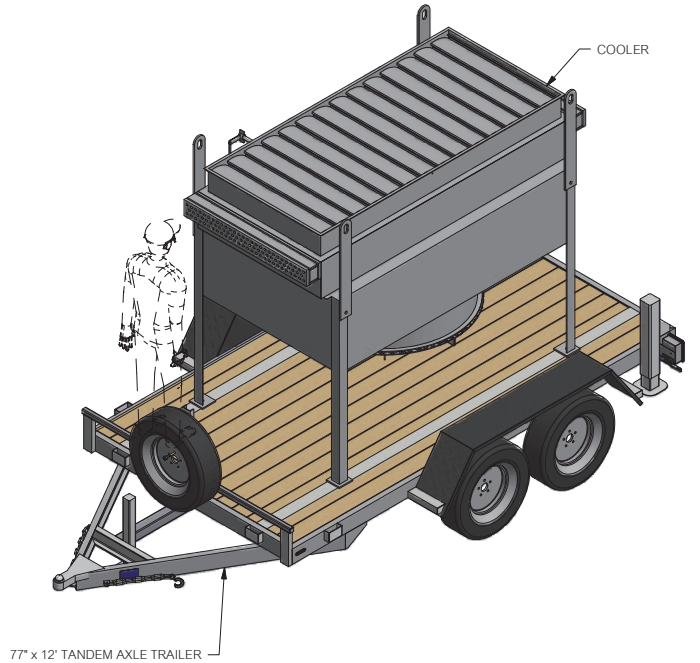




LACT		Part #	Approx Weight	BPD Liquid Capacity
DWG #	Size			
2273	3" Truck Loading	013-0092	4,872	10,000

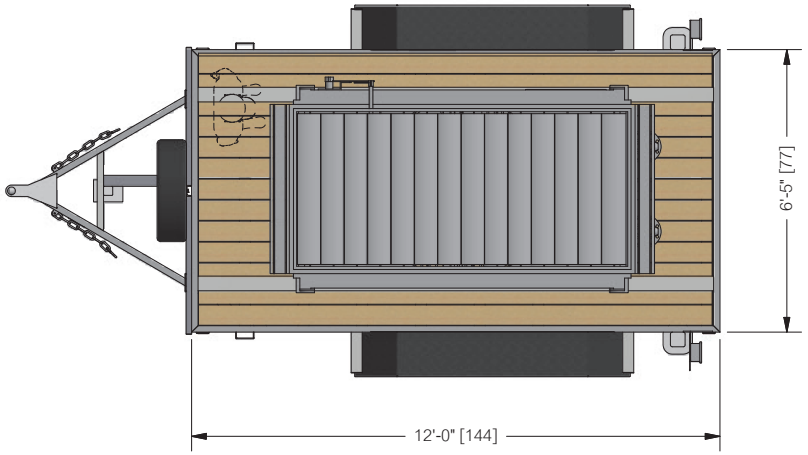
GAS COOLER // SPECIFICATIONS





215PSIG Trailer Mounted – Horizontal – Gas Cooler, with Electric Motor:

- Gas Capacity: 5 MMCFD
- Operating Pressure: 100PSIG at 5MMCFD
- Gas Temp In from well: 190 Deg. F
- Gas Temp out to pipeline: 110 Deg. F
- Elevation: 1200’
- Ambient Temperature: 70 Deg. F
- Gas: Methane
- Sp. Gr. Of Gas: 0.65
- Fan Noise Level: <85 dBA
- Manual Louvers
- Corrosion Allowance: 0
- Electric Motor, 460V,60HZ, 3Phase to meet Class I Div. 2
- TC70 Tandem Axle Trailer, 7' X 12', 4,000#, Electric Brakes, Collar Style Coupler



PRODUCTION PUMPS // SPECIFICATIONS










INJECTION APPLICATIONS
- Salt Water Disposal – PD & H-Pumps
- Water Flood Systems
- Filtration systems

MIDSTREAM APPLICATIONS
- Pipeline Transfer / Boost

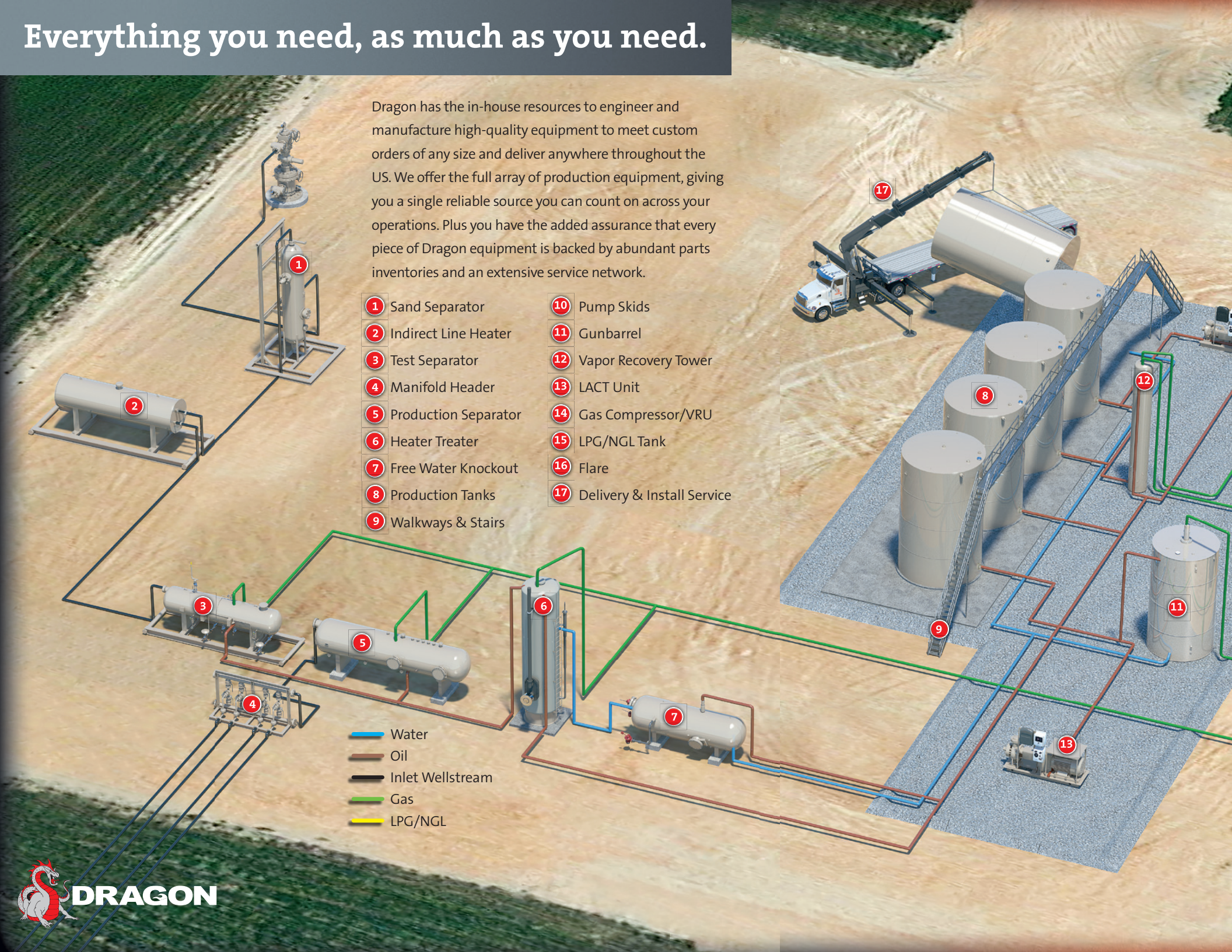
FLUID TRANSFER APPLICATIONS
- Recycle
- Frac Water
- Oil & Water Transfer
- Truck Unloading

DRAGON PUMPS
- Reciprocating Positive Displacement
- Vertical & Horizontal Centrifugal
- Progressive Cavity
- Internal/External Gear & Lobe
- Metering

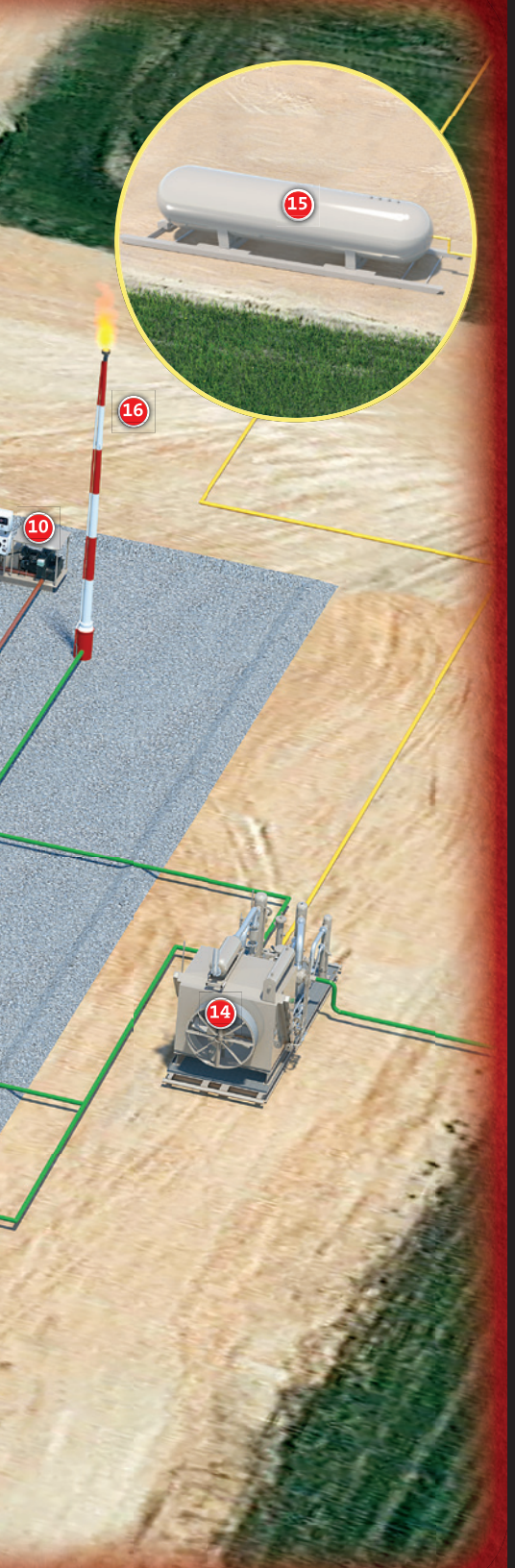
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