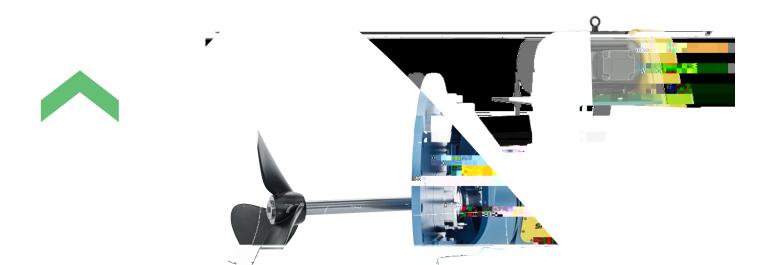
>Plenty®



HEAVY-DUTY SIDE-ENTRY MIXERS



lenty®



PLENTY MIXERS THE STANDARD FOR OIL STORAGE



The Plenty Side Entry Mixer is an efficient converter of energy into fluid motion





Plen Side En Mi e ha e helped o e he ind ring e na ional randa d. The can o pe fo mo he mi e ron he ma ke impl b i e of hei echnicall ad anced de ign, hich incl de a imple and ea il main ainable de ign, a c ell a a high ef cienc e helical pi ch one piece car impelle inco po a ing high blade a ea and fo a dake hich a de eloped b SPX FLOW.

Backed b o e 60 ea rope a ing e pe ience Plen. Mi e ha e a efe ence lignof roce of lighe in rallation of ha i record o none. Plen Mi e ra e ackno. ledged o be he make leade in he eld of ide en mi ing echnolog for he oil and per ochemical indering or ha ingreplied light eall ho and of night old. ide on me or majo oil companie in o e 60 con ie ra ond he globe.

Why side entry tank mixers

The Plen Side En mi e i an ef cien con e e of ene g in o id mo ion. Unlike je mi e rem the do no rffe igni can ene g lo re a he p mp, in he pipe. o k, in he bend to mo r igni can I, a he je no le r Capi al corra e lo. and accerto inank component i no e riced, hile he p oblem of fe en, gen main enance on ank that merbe empied and cleaned i reliminated. Side En mi e a e al o ef cien, and a e rall le repenire fo la ge diame e ank r Side En mi e a e ideal fo e on ank in a ging oof the epacical con idea ion pecl de he e of open mi e r

Standard Range

The follo. ing fo a iable for m, he comp ehen ir e randa d ange. In mo ra e rhe de ign concep ha r been, o p o ide ni r ri able for long and con in o rope a ion a emo e ire ri h minim m main enance.

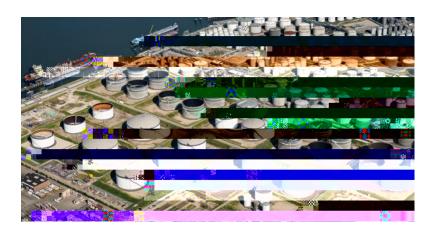
1.5 55kW (3 - 75 HP)

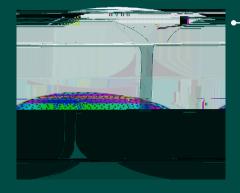
9, 16", **9**, 33" impelle r

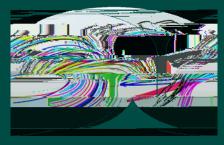
Bel and Gea Die

Fi ed and S. i el Angle

TYPICAL PRODUCT APPLICATIONS:







Process & Technology

ge mo e han an ef cien and co reffec i e p oce rayo

e e one of he o o e compa ional id d namic r

de elop p od cor peci call fo oil o age in o he 21 r

O labo a o allo. rayo op imi e o p oce ray fom

eliabili, lo. e p od cion co ray gea e o pa, e ri ing

P oce ring...... e pe fec ed i.





Blending, maintaining homogeneity and heat transfer

i a remed, ha, he ed, ie a e. ih clean pod c mi e rall ho ld be appo. 22.5 apa, and ihin a 90 If i po rible, o ope a e, he mi e d ing p mp p, ma imi e, he addi i e mi e effec of inle o. and mi e be ir a ed appo ima el 22.5, o, he lef of he, ank inle.

Impellers

The high ef cienc e helical pi ch impelle i h fo a dake, de eloped b Plen, feare a la ge blade a ea ha on imiter ca i a ion-feer cion, ma imiting promping a e and identification. One-piece calling eliminate reincre common in elded de ign ren ring niformi and balance forminimal ibation and high ef cienc. Rigo or in pection grange on imal pe formance and dabili.

Advanced Impeller Design:

High p mping

High, h

Minim m po. e d a.

Solid one piece de ign

No ca i a ion

Reliabili

Impeller Fixing

Po in e ing and di ing of he impelle on he haf i rachie ed b he e of ape o ape haf connection in hide ing ke and eaining bol.

Bearings

The ni a e de igned fo minimal main enance,



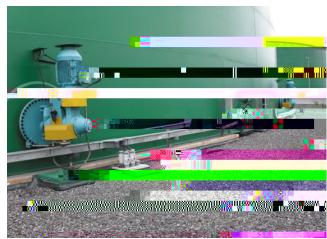


Belt Driven Mixer

A ho i on al foo mo n ed mo o i red ed abo e he main mi e f ame on a reel mo n ing plae. hich allo. radje men fo co ec bel en ioning. Mo o mo n ing plae hinge rand bel adje men ce. ra e co o ion poec ed again ra mo phe ic co o ion. The mo o and mi e haf ra e connec ed b a Fi e Re ir ran An i-S a ic (FRAS) High To e Die (pa allel o che on) Too h Bel co ec l i red o an mi mo o poe. The plle ha e ape lock b he fo ea e of emo al and a e enclo ed in a pak p oof and ea he p oof g a d. Die e ice fac o i 1.5 minim m.

The main mi e f ame i a igid one-piece ca ing pigo loca ed o he reel mo n ingrange, hich inco po a e p e-





CRUDE OIL, BOTTOM SLUDGE AND WATER (BS&W)

S. i el Angle mi e inco po a e a fea e hich allo. The mi e angle of en o be a ied ho gh 30 ei he ide of he ank cen e line in 10 inc emen and enable the en i e ank oo o be di ec l co ed b he impelle oo ream. Thi r i the onl a i fac o ol ion o BS&W con ol in la ge ank and en rethanhe he olid that a e and co o ire al thich e le in a ea lea ragia ed b a pe manent ed mi e a e main ained in r pen ion.

The mile mod le i rippo, ed b, o i el hinge bealing i hich en relea e of man al angle changing and, he i el eal i affeç ed b a hea d, aç ic Solo eal, aç ing on a rainle riquel phe ical ball.

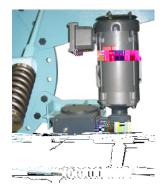
A ran alle na ile, o, hi man al facili, an a, oma ic ri el ac a o can be rpplied a ran opional e, a.

The A oma ic S i el Ac a o i a haf bel di en o an elec ic mo o di en peed ed ce and linkage, hich allo. r he mi e o ri el 30 deg ee in ej he di ec ion.

U ing he hat dien ac a o poide con ran moion of he riel hile he mie i in ope a ion. Thi rop ion emoe r he need fo e pen ir e additional eld ing (no a ailable fo ATEX ce i ca ion).

With he electic motor dien act atomhe ime controller provided, ill cole on elen 24 ho rand it el he mile 10 deglee reach ime. Thi rallo. The efficient cleaning of he and both om and eliminate the need for of ine man all adjument.





TM SERIES: FIXED ANGLE MIXERS MIXER POSITIONING

Tienty recommended mixer (rived ringle) positions for effective biending,

homogeneity and temperature uniformity

Homogeneity

Side En, mie ind cea pial foc edaial^o.aco rhe^oo of he ank con in all en aining p od c f om o he a ea rof, he, ank. Thi je , ream ini iall onlagiae the highe gai p od ç in, he bo, om of, he, ank, b in, ime, p o iding, he e i , he nece ra in ralled po. e, ill g ad all pene a e he highe la e of he ank p od c jh rf cien eloci o geneae boh f IL op o bo om o. and o b eak he in e face be een, he a io rden irie r and achie e a f ll homogeneo mi . If he ac al heigh /diame e (Z/T) a io re ce rire, hi r, ill in ence, he, q al po. e e i ed. Fo each applica ion he e i a minim m po, e belo. , hich no ma e ho, long he mi e i r ope a ed a blend o homogenei . ill ne e be achie ed. Fo p od c ro age •ank •hirg eingeneall 1.1kW pe 1000m (0.25HP pe 1000 bbl).

Blending

ill be app ecia ed, ha, o blend, he, ank con en, in 12 ho r, o ld e i e app o ima el half, he po. e e i ed, o do, he ame d, in 6 ho rand app o ima el, ice a m ch po. e a r, o ld be nece ra in 24 ho r

l i rho. e e, nece ra o appecia e ha ome ime i re i ed o ge he ank con en in mo ion befo e he nece ra o. pa e n i re rabli hed o enable he mi ing p oce rro commence. A ral ead di c red he e i ra minim m po. e e i ed fo a gi en ol me belo. Thich he nece ra o id mo ion old ne e be de eloped fo minimal p oce rre e i emen r

Duties for fixed angle mixers:

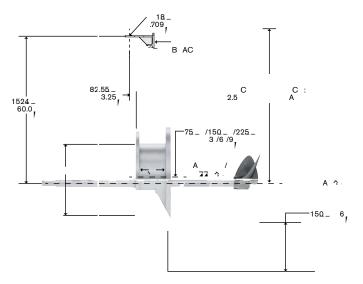
Maintaining Homogeneity

To main ain homogenei of e ne ni hed o in e media e p od c ro chemical plan feed rock ro en re nifo m peci ca ion. Thi rdemand romple e mo emen h o gho, he ank i h op o bo om no e "a re ell a roi c la ion o nd he ank, o en re ha he p od c a he op, middle and bo om emain r nifo m o peci ca ion.

Blending

To mi . . o o mo e diffe en componen . o ob ain

MANWAY DIMENSIONS



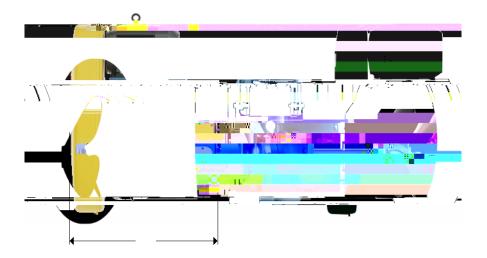
Man, a Dimen ion a e a ailable, o, he follo, ing anda d r

18", 20", 24", 30" ANSI and API D illing pa e n .r

Man, a rale rpplied o Plen S anda d Thickne rro f II hickne rro ANSI o API Code r

Con 4 he ele an code fo dimen ion r

Alenaie ire and comman, a aeaailable.



GEAR MIXERS

SHAFT DIA: AT SEAL		60 MM	85 MM	
DRIVE / *NOMINAL RPM		425	420	
A (Diame e)		To S i Specific P oce rrCondi ion r		
В	mm / in.	875 / 34 "	1185 / 463/4"	
С	mm / in.	515 / 20 "	695 / 27 "	
E (Bo e)	mm / in.	203 / 8"	254 / 10"	
Н	mm / in.	1076 / 42 "	1475 58"	
J	mm / in.	340 / 13 "	425 / 163/4"	

Dimen ion a eapp o ima e onl and ce, i ed d a, ing fill be rpplied a

SM Series: Fixed Angle Mixer SSM Series: Swivel Angle Mixer

SHAFT DIA: AT SEAL		60 MM	85 MM
DRIVE / *NOMINAL RPM		425	420
A (Diame e)		To S i Specific P oce rrCondi ion r	
В	mm / in.	720 / 28 "	930 / 36 "
С	mm / in.	770 / 30 "	995 / 39 "
Н	mm / in.	1076 / 42 "	1475 / 58"
J	mm / in.	340 / 13 "	425 / 16 "

^{*} Based on 60Hz motors

Dimen ion a e app o ima e onl and ce, ified d a, ing r, ill be rpplied a, ime

