

INSTALLATION INSTRUCTIONS SIDE ENTRY MIXERS

POSITION ON VESSEL

WHEN LIQUID LEVEL IS GREATER THAN DIAMETER

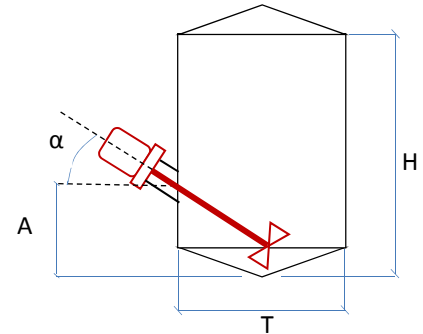
Direction: radial

Elevation: $A = \min H/8$

Slope: downward with α from table, function of vessel diameter

α	16	20	25	30	35	40
T/A	7,0 ÷ 5,6	5,5 ÷ 4,4	4,3 ÷ 3,4	3,3 ÷ 2,8	2,7 ÷ 2,4	2,3 ÷ 1,9

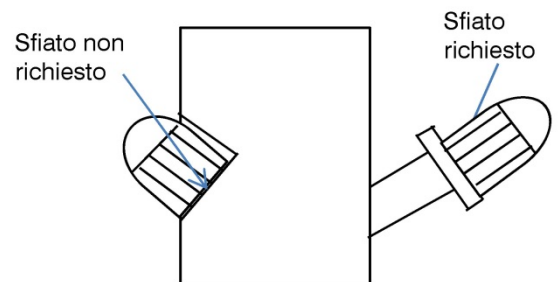
Multiple agitators: Not recommended



MECHANICAL SEAL VENTING

When connection to vessel is by nozzle and not directly on wall, during vessel filling it is recommended to vent mechanical seal with suitable plug obtained in the top part of connecting flange, or directly on the seal, when it is cartridge type.

If mixer is down sloped, this is mandatory to avoid seal dry running and quick failure.



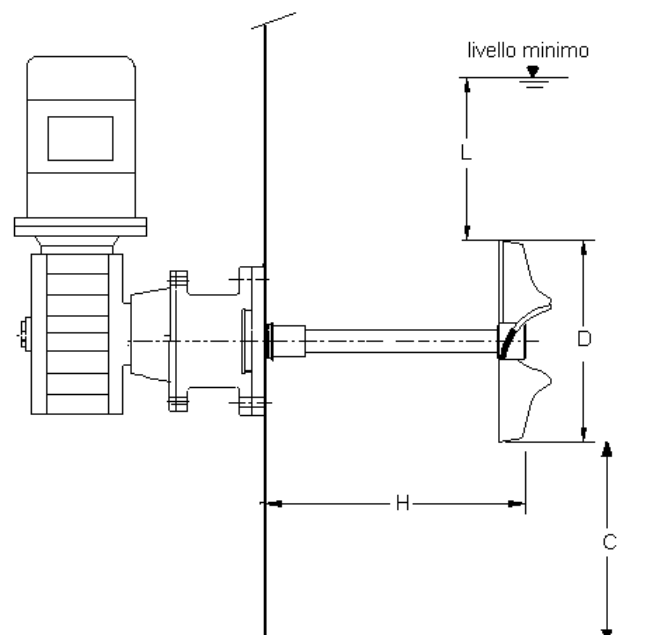
DISTANCE FROM WALLS

For best performances, impeller shall not be too close to walls:

H: Distance from vertical wall (has influence on shaft length): $\text{Min} = 0,6 D$

C: Distance of impeller lower part from bottom: $\text{Min} = 150\text{mm}$, never below welding line for dished bottom

L: Liquid level above impeller upper part $\text{min} = 1,5 \times D$



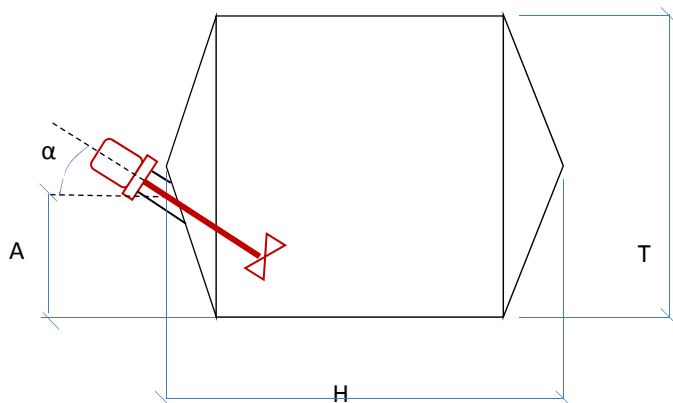
HORIZONTAL VESSELS

Mounting: fixed on one bottom, as close as possible to vessel axis, in the lower part, \dot{u}

Orientation: Downward, with α as per table, function of H/A

α	11	12,5	14	16	18,5	22
H/A	10	9	8	7	6	5

Multiple agitators: Not recommended



VERTICAL VESSEL WITH DIAMETER BIGGER THAN HEIGHT

Direction: left sloped α

$\alpha = 7^\circ$ for vessel diameter less than 15m

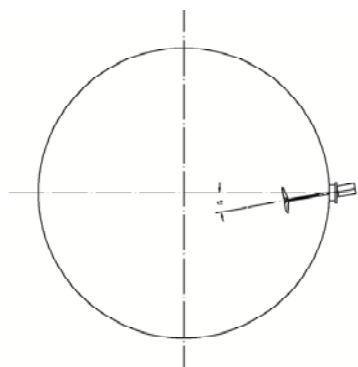
$\alpha = 10^\circ$ for vessel diameter greater than 15m

$\alpha = 20^\circ$ for solid suspension applications

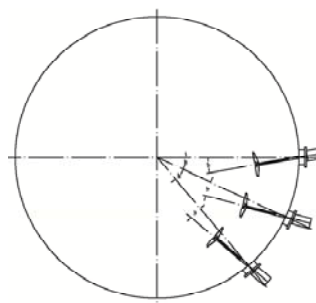
Elevation: For dished bottom, minimum 0,5 D from weld line,
 for flat bottom, minimum 0,5 D + 150mm

Slope: Horizontal

Multiple mixers: To be positioned in the same region, with same inclination.
 Distance between them about $22,5^\circ$



Single mixer
 inclination = α



Multiple mixers
 Max 25° distance on wall, same quarter
 inclination = α