

INTRUDRRR SERIES 35FP FLANGED/IN-LINE CHEMICAL MIXERS



SERIES 35FP FLANGED/IN-LINE MIXER

The **INTRUDRRR** series 35FP is a flanged/in-line high rate mixer designed for flash mixing of liquid chemicals into pipelines or closed conduits. They easily install vertically or horizontally through 6", 8", or larger ANSI flanges providing superior velocity gradient mixing intensity in 6" and larger pipelines. The 35FP is supplied with a 316 stainless steel knife gate valve, packing gland flange (PG-1) & insertion/retraction system (IR-1) for unit installation and removal from the pipeline under pressure/flow conditions.

The series 35FP is designed for non-vacuum flash mixing of liquid chemicals into pressured lines when chemical metering pumps are used to supply the chemicals and overcome pipeline head pressure. They are supplied with two isolated chemical feed ports for dual chemical feed applications.

The series 35FP utilizes a close coupled rugged and reliable U.S.A. manufactured BALDOR TEFC Severe Duty Super-E Premium Efficient motor for indoor or outdoor service in corrosive environments.

The **INTRUDRRR** series 35FP is available in 3 - 25 HP ranges for feed rates up to 70 GPM of liquid chemicals.

The **INTRUDRRR** series 35FP utilizes a Hasteloy-C propeller to produce a high GPM axial dispersion of the chemical mix in small or large diameter pipelines. The 35FP mixer is process water lubricated and is provided with an air release valve ported to the barrel.

NOTE: 6" concrete lined pipe stubs may require concrete removal to allow barrel to insert smoothly.

Performance Specifications

Model No.	HP	Flange Size (inches)	Maximum Liquid Induction GPM	Propeller Diameter O.D. (in.)	Propeller Discharge	
					GPM	Velocity (f/s)
Series 35FP-3	3	6 or 8	20	4	725	18.5
Series 35FP-5	5	6 or 8	25*	4.75	1,050	18.6
Series 35FP-7.5	7.5	6 or 8	30*	5	1,150	19.2
Series 35FP-10	10	8	40*	5.5	1,565	21
Series 35FP-15	15	8	50*	6	1,985	22
Series 35FP-20	20	8	60*	6.25	2,275	23
Series 35FP-25	25	8	70*	6.5	2,565	24

25 HP used for extreme applications where additional mixing intensity is required in large diameter pipelines or closed conduits.

*Maximum feed rate may vary dependent on chemical feed equipment manufacturers meter pump capacities, supply piping size and length, chemical viscosity, and the pipeline pressure. A larger HP CIU may be required to meet mixing (G-value) requirements. HP range is selected by chemical feed rate, pipeline size, peak pipeline flow rate, and (G-value) mixing requirement.

The **INTRUDRRR** series 35FP is proudly made in the U.S.A. and is backed by a 1 year limited warranty.

THE MASTRRR COMPANY offers an exclusive exchange program for competitive mixers. Contact us for our exchange details.



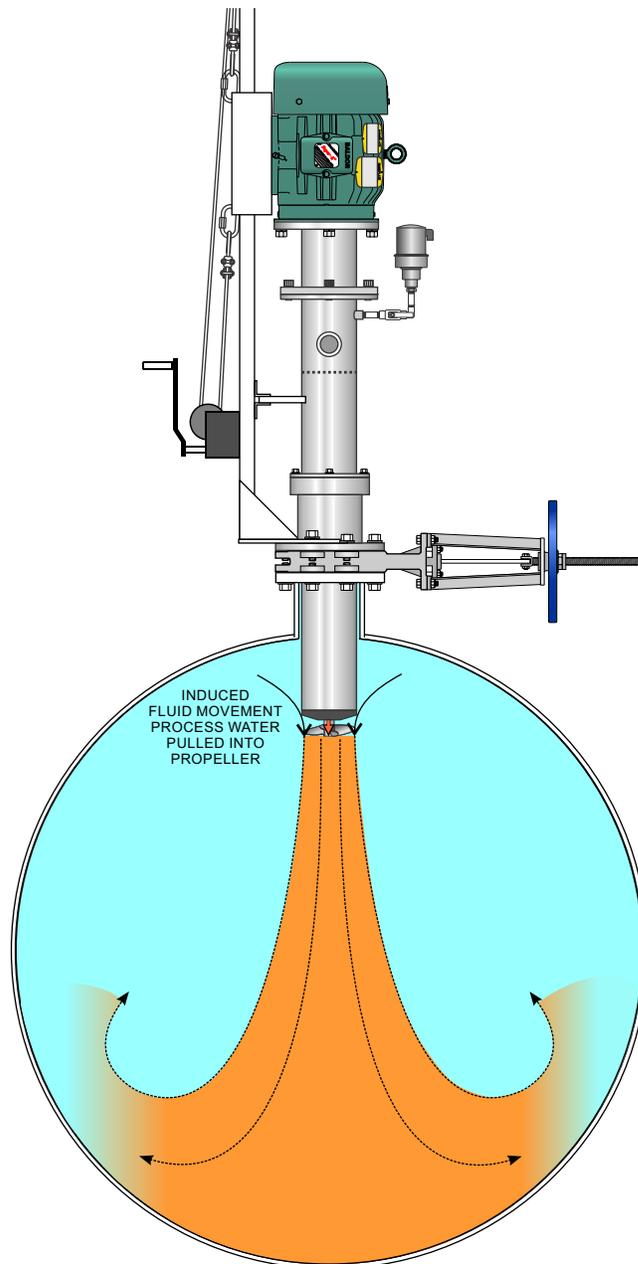
MAKING A WORLD OF DIFFERENCE IN CHEMICAL FEED TECHNOLOGY
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INTRUDRRR SERIES 35FP FLANGED/IN-LINE CHEMICAL MIXERS

SERIES 35FP CHEMICAL DISCHARGE MIX PATTERN HASTELOY-C PROPELLER

AXIAL HIGH VELOCITY SPIRALING
DISCHARGE PATTERN / DISPERSION MIX
TYPICAL CONICAL PATTERN



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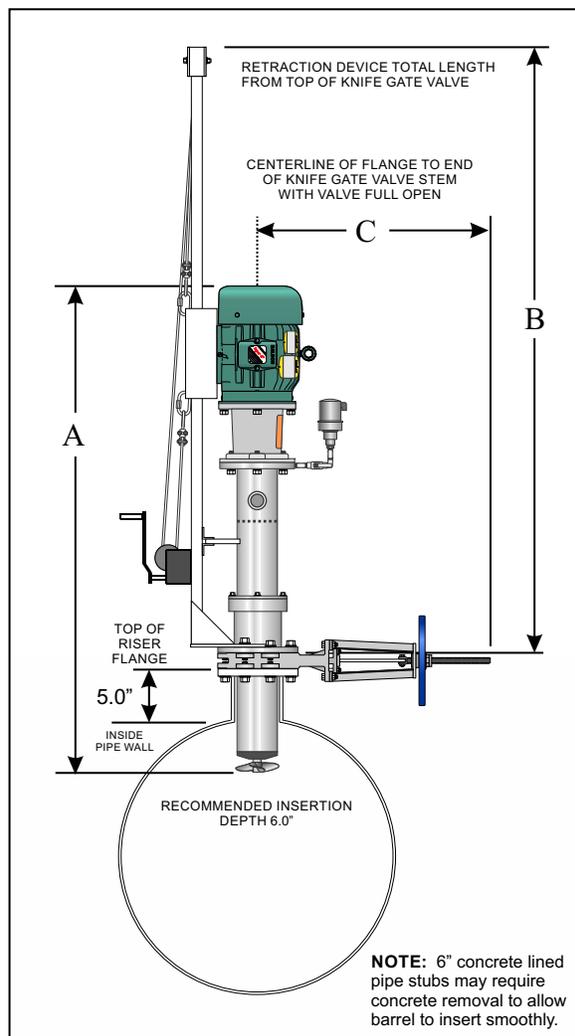
SERIES 35FP FLANGED/IN-LINE MIXER SPECIFICATIONS



The series 35FP utilizes a close coupled rugged and reliable U.S.A. manufactured BALDOR TEFC severe duty motor for indoor or outdoor service in corrosive environments. The motor is bolted to a Magnaloy cast aluminum motor mount assembly for shaft alignment and easy access to the shaft coupling.

HP	DIMENSIONS (inches)			FEED PORT (inches)
	A	B	C	
3	65	75.5	28 33	1"
5	65	75.5	28 33	1"
7.5	68	75.5	28 33	1"
10	68	75.5	N/A 33	1-1/2"
15	72.5	75.5	N/A 33	1-1/2"
20	72.5	75.5	N/A 33	2"
25	73.5	75.5	N/A 33	2"

MATERIALS OF CONSTRUCTION	
PART	MATERIAL
Motor	Epoxy Coated Cast Iron
Packing Gland	316 Stainless Steel
Flange	316 Stainless Steel
Barrel	316 Stainless Steel
Shaft	316 Stainless Steel
Mixing Element	Hasteloy-C
Feed Port	UHMW Polyethylene
Hardware/Bolts	316 Stainless Steel



TEFC MOTOR SPECIFICATION DATA VOLTAGE: 230/460 S.F. 1.15											
HP	RPM	Amps@460		Frame Size	Nema Design Code	Nominal Power Factor %			Typical Efficiency %		
		FL	LR			F.L.	3/4	1/2	F.L.	3/4	1/2
3	3500	3.4	32	182TC	A	92.0	89.0	83.0	88.5	89.1	87.5
5	3500	5.7	62	184TC	A	90.0	86.0	77.0	89.5	89.8	88.2
7.5	3510	8.6	75	213TC	B	89.0	85.0	77.0	91.7	92.1	91.2
10	3500	11.2	120	215TC	B	92.0	89.0	82.0	91.7	92.9	92.7
15	3525	17.2	128	254TC	B	88.0	86.0	78.0	91.7	91.8	90.8
20	3520	22.5	66	256TC	B	90.0	86.0	79.0	92.4	93.0	92.5
25	3430	28	236	284TC	A	91.0	88.0	82.0	93.0	93.5	93.0

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