Sanitary Centrifugal Pumps



Fristam Pumps...
Performance You've Come To Expect





FPR: The Preferred Centrifugal

Quality Begins with Fristam Pride

Fristam is an international manufacturer of sanitary centrifugal and positive displacement pumps, mixers and blenders that is respected for producing pumps with unmatched performance, reliability, and technical superiority.

Fristam pumps can be found in many of the world's top beverage, brewing, bio-pharmaceutical, and food processing companies.

Our dedication to continual improvement led to the development of the "easy maintenance" FPR Series centrifugal pump. The durable FPR is built with traditional Fristam quality and manufactured of 316L stainless steel.

Each part is carefully checked from raw material through final assembly. The result of this effort is a pump worthy of the valuable product your company produces.

Fristam pumps' solid design ensures operational reliability, low noise, and continued performance during sudden changes in pressure, even at very high discharge pressures.

Engineered for Performance

- Tight tolerances
- High efficiency
- Quiet operation
- Gentle product handling
- Reduced power consumption
- Isolated seal spring to meet stringent sanitary standards
- Heavy-duty solid cast and machined construction
- Fully balanced internal seal
- All 316L Stainless Steel wetted parts
- Low NPSH required

Made in the USA

Unlike many competitors, Fristam Pumps designs, machines, and assembles its pumps right here in the United States. This helps Fristam retain its unmatched quality, making it the pump company that is most responsive to its customers' needs.





Easy Maintenance

- Front pull-out seal design
- Fewer seal components
- No special tools required

Built with a front pull-out seal, FPR pumps are quickly serviced and do not need to be pulled out of line for seal changes. Processors save maintenance time and effort. Additionally, no special tools are required for service.



The Fristam front pull-out seal contributes to Fristam's unmatched seal life. The FPR features a cleaner design employing Fristam's experience in high pressure applications. Its fully balanced internal seal performs at all the designed pressures based on performance curves.

Less Maintenance Inventory

- Two seal sizes fit the entire line (except model 4001)
- Every shaft fits both a single and double seal
- Quick pump and part delivery

Within each pump model, seal size remains the same regardless of motor size. It is not necessary to stock different seals for different motors on the same model.

FPR pump shafts are designed to fit both the single and double mechanical seal arrangements. Processors can switch from single to double seal configurations without changing their shaft. This reduces the number of shafts needed to stock for spare parts.

Additionally, our responsive factory provides for quick pump and parts delivery.

Easy Cleaning

Fully CIP'able, the FPR meets the most stringent sanitary standards. An optional stainless steel flange provides extra corrosion resistance.

- Product viscosity up to 1,200 cps
- Process temperatures up to 400°F
- Maximum inlet pressure 150 PSI
- No spring in product area
- Single or double seal available
- Seal flush
- All wetted metal components are 316L stainless steel
- Mounted to C-face motor
- Horsepower range to 50 HP

FPR Seal Life Is Measured in Years

Seal life is critical to pump performance. Fristam's unique internal seal uses the cooling and lubrication of the product to provide longer seal life.

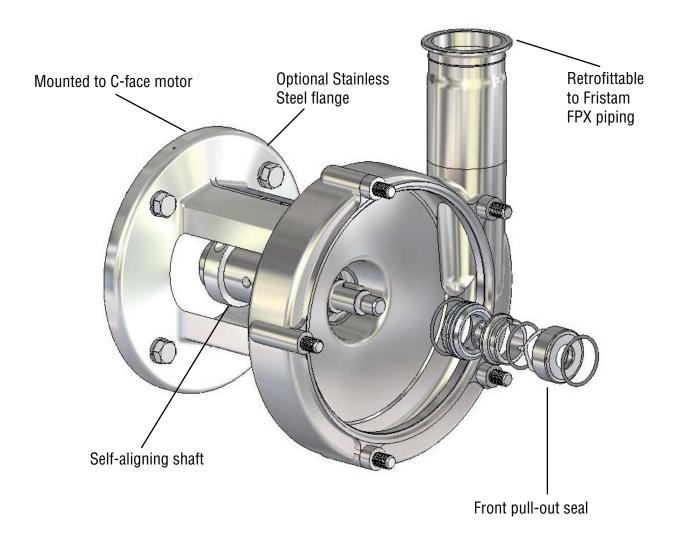
The Fristam design also maintains constant pressure between the faces to prevent potential contamination. Even under extreme conditions, Fristam's seal life is often measured in decades.

Some companies have tried to copy Fristam seal designs. None can match the quality and performance of an original Fristam seal. Material Options:

- Chrome Oxide/Carbon Standard
- Silicon Carbide/Carbon
- Silicon Carbide/Silicon Carbide
- Chrome Oxide/Silicon Carbide

Easy Shaft Alignment

- Easy installation and maintenance
- Easy gapping
- Concentric alignment, no run-out issues



Options





Fittings

Fristam pumps can be supplied with most types of sanitary or industrial fittings. Some alternate inlet sizes are also available. Sanitary fittings must be used on pumps that are required to meet 3-A standards.

Motor Options

Standard motors provided are "Inverter Ready", TEFC with a locked front bearing. The following options are available:

- Washdown
- Premium Efficiency
- Explosion-Proof
- IEC
- Chemical Duty

Surface Finish

Standard surface finish is 32 Ra. Finer finishes up to 15 Ra and electropolished are available.

Tungsten Carbide Coatings

For extremely abrasive products, internal components can be coated with tungsten carbide to prevent erosion.



Bearing Blocks

Fristam pumps are available with a bearing block style mounting which can accommodate motors up to 100 HP. The base plate is stainless steel.



Adjustable Base

Fristam Pumps' adjustable bases use solid stainless steel components with adjustable legs.

Stainless Steel Motors/Adapters

Pumps can be provided with stainless steel motors and adapters for protection against corrosive environments and a clean appearance.

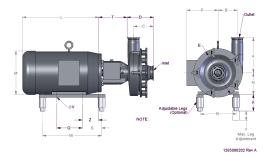
Portable Cart

Most Fristam pumps can be mounted on a stainless steel cart, depending on motor size.



FPR Dimensional Drawings

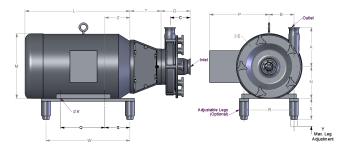
FPR Single Flange Dimensional Drawing



PUMP MODEL	INLET	OUTLET	Α	В	С	D	Е
FPR 701/702	1.5"	1.5"	108	44.5	106.5	139.5	150
11107017702	2.	1.5	4.25"	1.75"	4.19"	5.49"	5.91"
FPR 711/712	2"	1.5"	144	58	113	145	185
17107117712	-	1.5	5.67"	2.28"	4.45"	5.71"	7.28"
FPR 721/731/722	2"	1.5"	170	79	113	145	230
1 F K 72 II 73 II 722	-	1.5	6.69"	3.11"	4.45"	5.71"	9.06"
FPR 741/742	2.5"	2"	195	96	101	136	270
11107417742	2.5	-	7.68"	3.78"	3.98"	5.35"	10.63"
FPR 1741/1742	2.5"	2"	200	91	104	145.5	270
1710 174171742	2.5	_	7.87*	3.58"	4.09"	5.73"	10.63"
FPR 3521/3522	2.5"	2"	190	80	118	157.5	230
111002110022	2.0	-	7.48"	3.15"	4.65"	6.2"	9.06"
FPR 3531/3532	2.5"	2"	191	95	115.5	157.5	260
000110002	2	-	7.52"	3.74"	4.55"	6.2"	10.24"
FPR 3541/3542	3"	2.5"	211	115	118	157.5	290
554175542	,	2.5	8.31"	4.53"	4.65"	6.2"	11.42"

1.5 HP 1.5 HP 1.5 HP 1.15 C 284 175 89 3.5 5.25 4" 5.5" 5" 4.72 0.34" 14" 3.86" 1.5" 1.5" 1.5 HP 2.5	MOTO	DR HP	MOTOR				_	_	_	I _						
1 HP	1750 RPM	3500 RPM	FRAME	L	M	N	Р	Q	R	S	Т	V	w	х	Y	Z
1.5 HP				284	175	89	133	101.6	140	127	120	8.7	356	98	38	57.2
1.5 HP	1 HP	1.5 HP	1431C	11.18"	6.89"	3.5"	5.25"	4"	5.5"	5"	4.72"	0.34"	14"	3.86"	1.5"	2.25"
2 HP 2 HP 145TC 284 175 89 33 127 140 127 120 0.34 141 3.867 1.35 3.87 3	1 5 HD	45110	145TC	284	175	89	133	127	140	127	120	8.7	356	98	38	57.2
2 HP 2 HP 146TC 11.18° 6.89° 3.5° 5.25° 5° 6.5° 5° 4.72° 0.34° 14" 3.88° 15" 15" 15" 15" 15" 15" 15" 15" 15" 15"	1.5 HF		14510		6.89"	3.5"	5.25"	5"	5.5"	5"	4.72"	0.34"	14"	3.86"	1.5"	2.25"
3 HP 182TC 304 221 114 149 114 191 108 109 109 103 366 98 38 18 18 18 18 18 18 18 18 18 18 18 18 18	2 HP	2 HP	145TC													57.2
3 HP		2	14010													2.25"
S HP		3 HP	182TC													69.9
SHP														0.00		2.75"
S HP 18aTC 354 221 114 149 140 191 108 169 10.3 356 98 38 S HP 18aTC 13.94 87 4.5° 6.8° 5.8° 5.5° 7.5° 4.25° 6.6° 0.41° 3.86° 1.5° 7.5 HP 18aTC 12.32 221 114 149 140 191 108 169 10.3 356 98 38 7.5 HP 18aTC 16.5° 8.7° 4.5° 6.5° 7.5° 4.25° 6.6° 0.13 356 98 38 7.5 HP 18aTC 16.33° 10.25° 5.5° 7.5° 4.25° 6.6° 0.13 356 98 38 1.5 SPT 1.025° 5.25° 7.38° 5.5° 8.5° 4.25° 6.6° 0.11 147 3.86° 1.5° 10 HP 215C 15.8° 13 178 718 216 100 109 </th <th>3 HP</th> <th></th> <th>182TC</th> <th></th> <th>69.9 2.75"</th>	3 HP		182TC													69.9 2.75"
S HP 18410 1394" 8.7" 4.5" 5.87" 5.5" 7.5" 4.25" 6.65" 0.4" 14" 3.88" 1.5" 5 HP 184TC 1394" 8.7" 4.5" 5.87" 5.5" 7.5" 4.25" 6.65" 0.4" 14" 3.88" 1.5" 7.5 HP 184TC 423 221 114" 140 140 109 109 109 109 109 109 100														0.00		69.9
5 HP 184TC 354 221 114 149 140 191 108 169 10.3 356 8 38 15° 1 7.5 HP 184TC 423 221 114 149 140 191 108 169 10.3 356 98 38 15° 1 7.5 HP 184TC 423 221 114 149 140 191 108 169 10.3 356 98 38 15° 1 7.5 HP 213TC 403 260 133 187 140 216 108 169 10.3 356 98 38 10 HP 215TC 403 260 133 187 178 216 108 169 10.3 356 98 38 10 HP 215TC 1587 202 133 187 178 216 108 169 10.3 356 98 38 15° <		5 HP	184TC													2.75"
The image																69.9
7.5 HP	5 HP		184TC													2.75"
7.5 HP 1841C 1.665 8.7 4.5 5.87 5.5 7.5 4.25 6.65 0.41 141 3.887 1.5 3.8 1.5 1																69.9
10 HP		7.5 HP	184TC		8.7"	4.5"			7.5"					3.86"		2.75"
10 HP 21STC 403 265 133 187 178 265 8.5 4.25 6.65 0.41 147 3.88 1.38 1.38 1.09 1.01 147 3.88 1.38 1.38 1.09 1.01 147 3.88 1.38 1.38 1.09 1.01 147 3.88 1.38 1.38 1.09 1.01 147 3.88 1.38 1.38 1.09 1.01 147 3.88 1.38 1.38 1.09 1.01 147 3.88 1.38 1.09 1.00 1.00 1.00 1.00 1.00 1.00 1.00	7.5.110		04070	403	260	133	187	140	216	108	169	10.3	356	98	38	88.9
10 HP	7.5 HP		21310	15.87"	10.25"	5.25"	7.38"	5.5"	8.5"	4.25"	6.65"	0.41"	14"	3.86"	1.5"	3.5"
16 B7 10.25 5.25 7.38 77 8.5 4.25 6.65 0.41 14" 3.88 1.38 1.02 1.03 1.03 1.03 1.05 1.05 1.03 1.05		10 HP	245TC	403	260	133	187	178	216	108	169	10.3	356	98	38	88.9
15 HP 215TC 515 200 133 197 178 215TC 18.38" 10.25" 5.25" 7.38" 7" 8.5" 4.25" 6.65" 0.41" 14" 3.88" 81 88 88 88 88 88 88 88 88 88 88 88 88		10111	21310				7.38"			4.25"	6.65"			3.86"		3.5"
15 HP 21 STC 515 2028 1 03 2 18 7 78 8.5 8 4.25 8 6.65 0.41 1 44 3.88 8 1 38 8 1 15 HP 21 STC 515 2028 1 03 2 18 1 7 178 2 18 1 100 18 18 9 10.3 35 6 9 8.5 8 38 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10 HP		215TC		260				216		169	10.3	356	98		88.9
15 HP																3.5"
15 HP		15 HP	215TC													88.9
15 HP																3.5"
20 HP	15 HP		254TC													108.0
20 HP																4.25"
25 HP		20 HP	256TC													4.25"
25 HP																108.0
25 HP 284TSC 588 371 178 333 241 279 121 179 13.5 445 118 45 178 13.7 9.5 117 4.755 7.05 0.53 17.5 48.9 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5	20 HP		256TC													4.25"
25 HP 284TC 588 371 178 333 241 279 121 179 13.5 44.6 17.5 18.6 18.7 17.5 18.6 18.7 17.5 18.6 18.7 18.6 18.6 18.6 18.6 18.6 18.6 18.6 18.6																120.7
28 HP		25 HP	2841SC	23.15"	14.63"	7"	13.13"	9.5"	11"	4.75"	7.05"	0.53"	17.5"	4.63"	1.75"	4.75"
30 HP 286TSC 589 371 178 333 279 279 121 179 13.5 48.63 1.75' 4.63 17.75' 4.63	25 HD		204TC	588	371	178	333	241	279	121	179	13.5	445	118	45	120.7
30 HP 2861S 23 15' 14.63" 7" 13.13' 11' 11' 4.75' 7.05' 0.53' 17.5' 4.63' 17.5' 1.75	25 HF		20410	23.15"	14.63"	7"	13.13"	9.5"	11"	4.75"	7.05"	0.53"	17.5"	4.63"	1.75"	4.75"
23.15" 14.63" 7" 13.13" 11" 11" 4.75" 7.05" 0.53" 17.5" 4.63" 17.5" 30 HP		30 HP	286TSC		371	178	333	279	279		179		445	118	45	120.7
30 17 25 15 14.63 7 13.13 11 11 4.75 7.05 0.53 17.5 4.63 17.5			200.00													4.75"
40 HP 324TSC 636 419 203 359 267 318 121 179 16.7 470 118 45 25 47 41.6 18 25 4.7 25 4.75 1.70 18 25 4.63 1.75 1.75 1.75 1.75 1.75 1.75 1.75 1.75	30 HP		286TC													120.7
40 HP 324TS 25.04* 16.5* 8* 14.13* 10.5* 12.5* 4.75* 7.05* 0.86* 18.5* 4.63* 1.75* 40 HP 324TC 25.04* 16.5* 8* 14.13* 10.5* 12.5* 4.75* 7.05* 0.86* 18.5* 4.63* 1.75* 50 HP 326TSC 58 419 203 599 305 318 121 179 16.7 4.70* 118 4.5* 1.85*																4.75"
40 HP 324TC 2636 419 203 359 267 318 121 179 16.7 470 118 45 18 14.5 19 16.7 18 18 18 18 18 18 18 18 18 18 18 18 18		40 HP	324TSC													133.4
40 HP 324TC 25.04* 16.5* 6* 14.13* 10.5* 12.5* 4.75* 7.05* 0.66* 18.5* 4.63* 1.75* 50 HP 326TSC 58 4.91 203 59 305 316 121 179 16.7 4.70* 11.6 45 1.00* 1.75* 1.25* 1.25* 1.75* 0.66* 18.5* 4.83* 1.75* 1.																5.25"
50 HP 326TSC 636 419 203 359 305 318 121 179 16.7 470 118 45 25.04* 16.5* 8* 14.13* 12* 12.5* 4.75* 7.05* 0.66* 18.5* 4.63* 1.75* 1.	40 HP		324TC													133.4 5.25"
3261SC 25.04" 16.5" 8" 14.13" 12" 12.5" 4.75" 7.05" 0.66" 18.5" 4.63" 1.75" 1.																133.4
626 440 202 250 205 219 424 470 46.7 470 449 45		50 HP	326TSC													5.25"
				636	419	203	359	305	318	121	179	16.7	470	118	45	133.4
	50 HP		326TC													5.25"

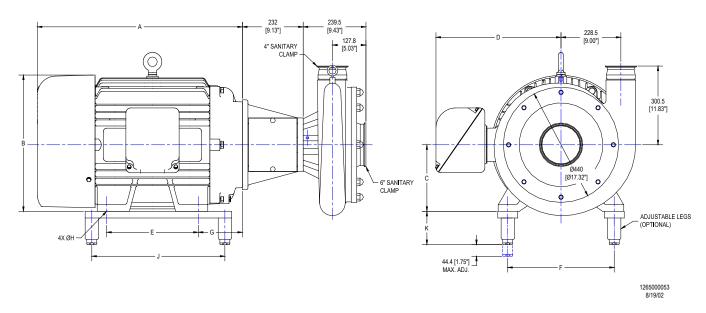
FPR Double Flange Dimensional Drawing



PUMP MODEL	INLET	OUTLET	Α	В	С	D	Е
FPR 751/752	3"	2"	205 8.07"	145 5.71"	99 3.9"	142 5.59"	379 14.92"
FPR 3451/3452	3"	2"	211 8.31"	140 5.51"	114 4.49"	160.5 6.32"	350 13.78"
FPR 3551/3552	3"	2.5*	230 9.06"	140 5.51"	119 4.69"	170 6.69"	350 13.78"
FPR 1051	4"	4"	250 9.84"	170 6.69"	167 6.57"	202.5 7.97"	406 15.98"
FPR 1161	4"	4"	250 9.84"	170 6.69"	110.5 4.35"	146 5.75"	406 15.98"

MOTO	OR HP	MOTOR	L	М	N	Р	Q	R	s	т	v	w	х	Υ	z
1750 RPM	3500 RPM	FRAME	-	IVI		-	3	Κ.	,	•	•	**	^	•	_
	3 HP	182TC	313	221	114	149	114	191	108	160	10.3	356	98	38	69.9
			12.32"	8.7"	4.5"	5.87"	4.5"	7.5*	4.25"	6.3"	0.41"	14"	3.86"	1.5"	2.75"
3 HP		182TC	348 13.7"	221 8.7"	114 4.5"	149 5.87"	114 4.5"	191 7.5"	108 4.25"	160 6.3"	10.3 0.41"	356 14"	98 3.86"	38 1.5"	69.9 2.75"
			347	221	114	149	140	191	108	160	10.3	356	98	38	69.9
	5 HP	184TC	13.66"	8.7"	4.5"	5.87"	5.5"	7.5*	4.25"	6.3"	0.41"	14"	3.86"	1.5"	2.75"
5 HP		184TC	386	221	114	149	140	191	108	160	10.3	356	98	38	69.9
5 HP		18410	15.2"	8.7"	4.5"	5.87"	5.5"	7.5"	4.25"	6.3"	0.41"	14"	3.86"	1.5"	2.75"
	7.5 HP	184TC	386	221	114	149	140	191	108	160	10.3	356	98	38	69.9
	7.0111	10410	15.2"	8.7"	4.5"	5.87"	5.5"	7.5"	4.25"	6.3"	0.41"	14"	3.86"	1.5"	2.75"
7.5 HP		213TC	388	260	133	187	140	216	108	160	10.3	356	98	38	88.9
			15.28"	10.25"	5.25"	7.38"	5.5"	8.5"	4.25"	6.3"	0.41"	14"	3.86"	1.5"	3.5"
10 HP	10 HP	215TC	388 15.28"	260 10.25"	133 5.25"	187 7.38"	178 7"	216 8.5"	108 4.25"	160 6.3"	10.3	356 14"	98 3.86"	38 1.5"	88.9 3.5"
			436	260	133	187	178	216	108	160	10.3	356	98	38	88.9
	15 HP	215TC	17.17"	10.25"	5.25"	7.38"	7"	8.5"	4.25"	6.3"	0.41"	14"	3.86"	1.5"	3.5"
15 HP		254TC	447	327	159	244	210	254	102	160	13.5	406	98	38	108
15 HP		25410	17.6"	12.87"	6.25"	9.63"	8.25"	10"	4"	6.3"	0.53"	16"	3.86"	1.5"	4.25"
	20 HP	256TC	491	327	159	244	254	254	102	160	13.5	406	98	38	108
	20111		19.33"	12.87"	6.25"	9.63"	10"	10"	4"	6.3"	0.53"	16"	3.86"	1.5"	4.25"
20 HP		256TC	499	327	159	244	254	254	102	160	13.5	406	98	38	108
		-	19.65" 588	12.87" 371	6.25" 178	9.63"	10"	10" 279	4" 121	6.3"	0.53"	16" 445	3.86"	1.5" 45	4.25"
25 HP		284TC	23.15"	14.63"	7"	13.13"	9.5"	11"	4.75"	6.85"	0.53"	17.5"	118 4.63"	1.75"	121 4.75"
			588	371	178	333	241	279	121	174	13.5	445	118	45	121
	25 HP	284TSC	23.15"	14.63"	7"	13.13"	9.5"	11"	4.75"	6.85"	0.53"	17.5"	4.63"	1.75"	4.75"
30 HP		286TC	588	371	178	333	279	279	121	174	13.5	445	118	45	121
30 HP		2861C	23.15"	14.63"	7"	13.13"	11"	11"	4.75"	6.85"	0.53"	17.5"	4.63"	1.75"	4.75"
	30 HP	286TSC	588	371	178	333	279	279	121	174	13.5	445	118	45	121
	00 1	200.00	23.15"	14.63"	7"	13.13"	11"	11"	4.75"	6.85"	0.53"	17.5"	4.63"	1.75"	4.75"
40 HP		324TC	636	419	203	359	267	318	121	209	16.7	470	118	45	133
			25.04" 636	16.5" 419	8" 203	14.13" 359	10.5"	12.5" 318	4.75" 121	8.23" 209	0.66" 16.7	18.5" 470	4.63" 118	1.75" 45	5.25"
	40 HP	324TSC	25.04"	16.5"	8"	14.13"	10.5"	12.5"	4.75"	8.23"	0.66"	18.5"	4.63"	1.75"	5.25"
			636	419	203	359	305	318	121	209	16.7	470	118	45	133
50 HP		326TC	25.04"	16.5"	8"	14.13"	12"	12.5"	4.75"	8.23"	0.66*	18.5"	4.63"	1.75"	5.25"
	50 HP	326TSC	636	419	203	359	305	318	121	209	16.7	470	118	45	133
	30 FF	320136	25.04"	16.5"	8"	14.13"	12"	12.5"	4.75"	8.23"	0.66"	18.5"	4.63"	1.75"	5.25"
60 HP		364TC	685	470	229	383	286	356	89	209	16.7	508	127	45	149
			26.97"	18.5"	9"	15.06"	11.25"	14"	3.5"	8.23"	0.66"	20"	5"	1.75"	5.87"
	60 HP	364TSC	685	470 18.5"	229	383	286 11.25"	356 14"	89 3.5"	209	16.7	508 20"	127 5"	45	149
		-	26.97" 685	18.5" 470	229	15.06" 383	311	356	3.5	8.23" 209	0.66" 16.7	508	127	1.75" 45	5.87" 149
75 HP		365TC	26.97"	18.5"	9"	15.06"	12 25"	14"	3.5"	8.23"	0.66"	20"	5"	1.75"	5.87"
			685	470	229	383	311	356	89	209	16.7	508	127	45	149
	75 HP	365TSC	26.97"	18.5"	9"	15.06"	12.25"	14"	3.5"	8.23"	0.66"	20"	5"	1.75"	5.87"

FPR Double Flange Dimensional Drawing - Model 4001



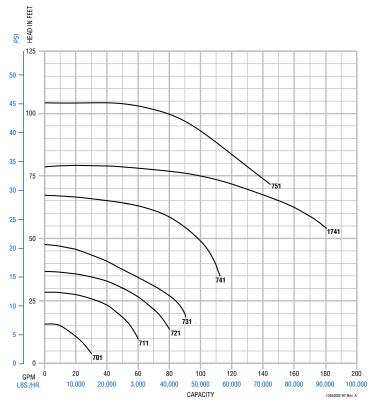
MOTOR HP	MOTOR		DIMENSIONS IN MILLIMETERS (INCHES)											
	FRAME	Α	В	С	D	E	F	G	ØH	J	K			
40 HP	324TC	636	418	203	371	267	317	133	16.7	470	117			
40 HF	32410	(25.05")	(16.44")	(8.00")	(14.62")	(10.50")	(12.50")	(5.25")	(21/32")	(18.50")	(4.63")			
50 HP	326TC	636	418	203	371	305	317	133	16.7	470	117			
30 HF		(25.05")	(16.44")	(8.00")	(14.62")	(12.00")	(12.50")	(5.25")	(21/32")	(18.50")	(4.63")			
60 HP	364TC	684	470	229	380	286	355	149	16.7	508	127			
OU HP	30410	(26.94")	(18.50")	(9.00")	(14.95")	(11.25")	(14.00")	(5.88")	(21/32")	(20.00")	(5.00")			
75 HP	365TC	684	470	229	380	311	355	149	16.7	508	127			
75 HF	30310	(26.94")	(18.50")	(9.00")	(14.95")	(12.25")	(14.00")	(5.88")	(21/32")	(20.00")	(5.00")			
100 HP	405TC	782	520	254	477	349	406	168	20.6	508	127			
TOU FIF	40310	(30.80")	(20.48")	(10.00")	(18.78")	(13.75")	(16.00")	(6.62")	(13/16")	(20.00")	(5.00")			

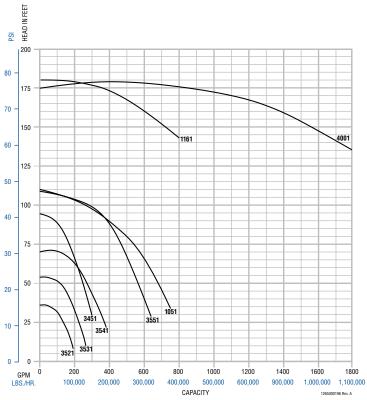
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FPR Sanitary Pump Composite Performance Curve

Speed: 1750 rpm (60 Hertz)

Performance curves based on tests using 70°F water. A tolerance of $\pm 5\%$ applies to all figures. For vacuum withdrawal applications, please contact Fristam Pumps, USA.

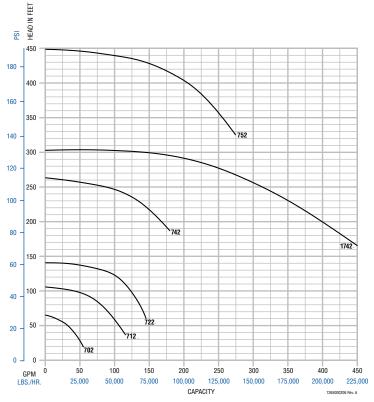


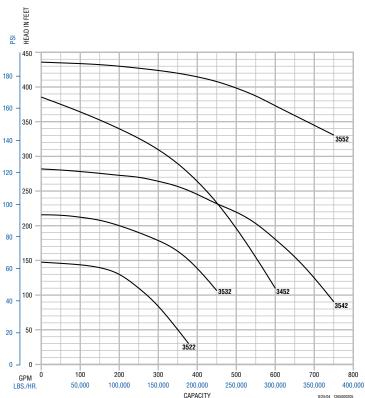


FPR Sanitary Pump Composite Performance Curve

Speed: 3500 rpm (60 Hertz)

Performance curves based on tests using 70°F water. A tolerance of ±5% applies to all figures. For vacuum withdrawal applications, please contact Fristam Pumps, USA.





Specialty Pumps



Water for Injection

The Fristam WFI pump is a precision adaptation of the FPR Series pump. Fristam pioneered the "Double Safe Seal System" to ensure product sterility. Its low pressure, low flush design protects product sterility and saves valuable product.



Aseptic Centrifugal

Aseptic processing requires equipment which assures both product dependability and sterility. The Fristam FPR double-seal pump offers a perfect fit for aseptic processing. With sterile barriers at all seal points, including the cover gasket, your product is protected from contamination.



Jacketed Pump Housing

Fristam's jacketed pump housing is available on most FPR models. The jacketed pump housing is designed for products that require temperature control. This includes applications that require heated products, such as chocolate, to remain liquid and not solidify or for applications that require a cold product, such as brewing.

Other Superior Quality Fristam Products





Positive Displacement Pumps

- Heavy-duty FKL Series pumps are fully CIP'able without performance loss, operate at up to 300 PSI and handle viscosities to one million cps.
- Standard-duty FL II Series pumps reduce product damage through low pulsation and gentle handling. Their bi-wing rotor simplifies maintenance and allows for CIP/SIP cleaning.



High-Pressure Centrifugal Pumps

- FM multi-stage pumps have become the benchmark for reverse osmosis system pumps with a non-pulsating flow and lower maintenance costs. FM pumps can operate at discharge pressures up to 340 PSI and inlet pressures up to 750 PSI.
- FPH and FPHP Series high-pressure pumps supplement the operating capability of the Fristam multi-stage product line. FPH and FPHP Series pumps operate with discharge pressures to 1,250 PSI.



Liquid Ring Pumps

Ideal for CIP solution and foamy or aerated products, Fristam's FZX Series pumps reduce waste by completely removing product from process equipment. Fully CIP'able/SIP'able, the FZX series has a maximum inlet pressure of 150 PSI.



Shear Blenders

FS Series blenders improve product consistency by removing agglomerates and preventing lumps and masses in product. Use the FS Series to blend, emulsify, disperse, dissolve, texturize and homogenize. CIP'able/SIP'able, it saves processors time and money, in addition to improving product quality.



Powder Mixers

Fristam's Powder Mixer's unique two pump system provides quick, high-performance blending of wet and dry ingredients into a fluid stream. It's easy to use and saves time and money.

The rotor-stator design of the FS Series Shear Blender eliminates unblended product and prevents lumps and masses for consistent batch-to-batch repeatability. The self-priming FZX Liquid Ring Pump creates a consistent vacuum at the bottom of the funnel to prevent plugging and maintain powder rate, even as viscosity increases.

Worldwide Contact Details

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India

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Russian Federation Fristam Pumpen R.A. Moscow

Scandinavia Fristam Pumper A/S Saeby

S.E. Asia Fristam Pumpen A.R. Singapore

Spain/Portugal Fristam Iberica S.L. Barcelona

Fristam's Commitment

Fristam Pumps manufactures the sturdiest products in the industry. Our design reduces repair/replacement cost, downtime and energy consumption, and therefore yields high lifetime value. Fristam is one of the most accessible equipment companies in the world. Fristam's dedication and quality service do not end with your initial purchase. An international network of manufacturing facilities, sales offices and distribution supports Fristam's commitment to customer satisfaction.

3-A,GMP, U.S.D.A., F.D.A., ISO and EHEDG

Fristam complies with and supports regulatory standards. Fristam pumps meet all applicable industry standards for performance, cleanliness and design. As a registered ISO 9001:2000 company, Fristam is committed to consistent quality products.







