



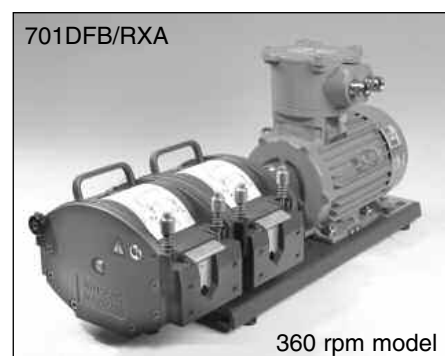
Improving your PERFORMANCE

## 701DFB/RXA and 701DFB/REXA ATEX pumps

### Technical information

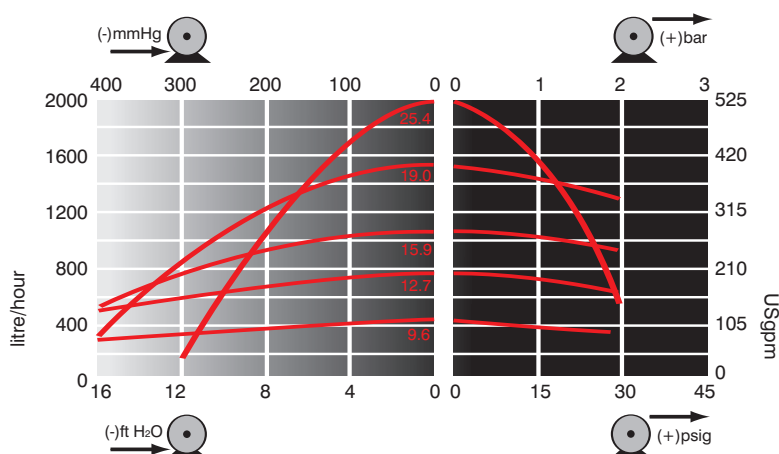
- ATEX Category II Group 2 Gas max surface temperature 135C (II 2G c IIB T4) fixed pump assembly
- 701RBA and 701RBXA pumpheads for use with 9.6, 12.7, 15.9 and 19.0mm bore 4.8mm wall thickness continuous tubing
- 701RBEA and 701RBEXA pumpheads for use with 12.7mm, 15.9mm and 19.0mm bore LoadSure tubing elements fitted with Cam and Groove connectors
- One minute maintenance from patented LoadSure technology
- Pumphead has four driven rollers and a spring loaded track for extended tube life and reduced pulsation
- Variable frequency drive\* motor options
- 0.37kW geared units and 1.1kW motors, 230/400V 3 phase 50Hz TEFC EExd IIB T4 geared units with positive temperature coefficient (PTC) thermistors
- 0.37kW & 1.1kW variable frequency drive options available with various control functionality

\*10:1 speed reduction available using VFD from geared units, must be fitted with thermistors



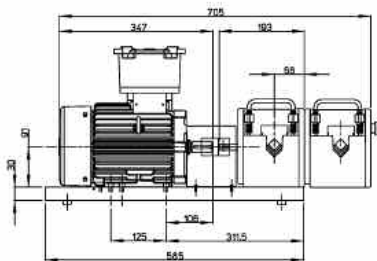
### Flow rates at transfer pressure with water at 20C (litres/hour)

Fixed speeds	701R continuous tubing					701RE LoadSure		
	9.6mm	12.7mm	15.9mm	19.0mm	25.4mm	12.7mm	15.9mm	19.0mm
112rpm	130	240	340	470	620	240	340	470
360rpm	420	780	1100	1500	2000	780	1100	1500

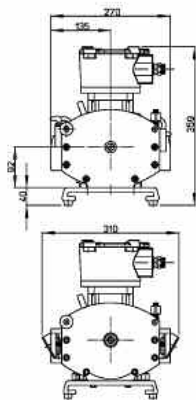


For critical applications determine flow under operating conditions. Flow can vary due to tube tolerances and system configuration

Flow rates at 360rpm, clockwise, water 20°C

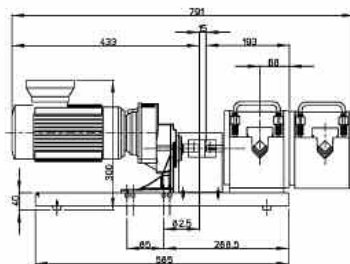


360 rpm model

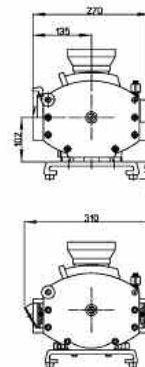


701DFB/RXA

701DFB/REXA



112 rpm model



701DFB/RXA

701DFB/REXA

# 701DFB/RXA and 701DFB/REXA ATEX pumps

Order information				
Pump ordering codes				
Pump	rpm	Supply	Product code	
701DFB/RA	112	230/400V 50Hz 3ph 0.37kW *10:1	070.1012.000	
PTC's plated for inverter use	360	230/400V 50Hz 3ph 1.1kW *10:1	070.1032.000	
701DFB/REA	112	230/400V 50Hz 3ph 0.37kW *10:1	070.1012.E00	
PTC's plated for inverter use	360	230/400V 50Hz 3ph 1.1kW *10:1	070.1032.E00	
701DFB/RA/RXA	112	230/400V 50Hz 3ph 0.37kW *10:1	070.1012.X00	
PTC's plated for inverter use	360	230/400V 50Hz 3ph 1.1kW *10:1	070.1032.X00	
701DFB/REA/REXA	112	230/400V 50Hz 3ph 0.37kW *10:1	070.1012.EX0	
PTC's plated for inverter use	360	230/400V 50Hz 3ph 1.1kW *10:1	070.1032.EX0	
*10:1 speed reduction available using VFD. Geared units fitted with PTC thermistors				
Pumphead ordering codes				
Pumphead	Description	Product code		
701RBA	Four roller continuous tubing ATEX pumphead	073.0101.A00		
701RBEA	Four roller LoadSure element ATEX pumphead	073.0104.A00		
701RBXA	Four roller continuous tubing ATEX extension pumphead	073.0111.A00		
701RBEXA	Four roller LoadSure element ATEX extension pumphead	073.0114.A00		
701RBGA	Four roller continuous tubing ATEX pumphead for STA-PURE tubing	073.0121.A0G		
Variable frequency drive ordering (0.25kW)				
Inverter	Filter	Supply	Product code	
Micromaster Compact "Plus"	Class B	230/400V 50Hz/60Hz 3ph	079.4037.1FP	
Micromaster Compact "Basic"	Class A	230/400V 50Hz/60Hz 3ph	079.4037.1FB	
Micromaster Compact "Vector"	Class A	230/400V 50Hz/60Hz 3ph	079.4037.1FV	
Micromaster Compact "Basic"	Class A	230/400V 50Hz/60Hz 3ph	079.4110.1FB	
Micromaster Compact "Vector"	Class A	230/400V 50Hz/60Hz 3ph	079.4110.1FV	

Tubing 4.8mm wall tubing ordering codes			
Bore/wall (mm)	Bioprene	Marprene	Platinum Silicone
9.6/4.8	903.0096.048	902.0096.048	913.A096.048
12.7/4.8	903.0127.048	902.0127.048	913.A127.048
15.9/4.8	903.0159.048	902.0159.048	913.A159.048
19.0/4.8	903.0190.048	902.0190.048	913.A190.048
25.4/4.8	903.0254.048	902.0254.048	913.A254.048
Bore/wall (mm)	Neoprene	STA-PURE	Chem-Sure
9.6/4.8	920.0096.048	960.0096.048	965.0096.048
12.7/4.8	920.0127.048	960.0127.048	965.0127.048
15.9/4.8	920.0159.048	960.0159.048	965.0159.048
19.0/4.8	920.0190.048	960.0190.048	965.0190.048
25.4/4.8	920.0250.048	960.0250.048	965.0250.048

LoadSure elements			
Bore/wall (mm)	12.7mmx4.8mm C&G with PP 3/4" connectors	15.9mmx4.8mm C&G with PP 3/4" connectors	19.0mmx4.8mm C&G with PP 3/4" connectors
Marprene	902.0127.PPC	902.0159.PPC	902.0190.PPC
Neoprene	920.0127.PPC	920.0159.PPC	920.0190.PPC

## Specification

<b>Weight</b>	35kg max
<b>Ingress protection</b>	IP55 geared unit
<b>Operational temperature range</b>	5°C to 40°C
<b>Noise</b>	< 70dB(A) @ 1m
<b>Control ratio</b>	10:1 for motors fitted with thermistors
<b>Standards</b>	CE. EN60529 (IP55), EN50014, EN13463-1:2001
<b>Supply</b>	230/400V 50Hz 3 phase

## Materials of construction

<b>Motor</b>	Cast aluminium alloy
<b>Gearbox</b>	Cast iron
<b>Rotor end plates</b>	Aluminium
<b>Cradle assembly, track</b>	Aluminium epoxy finish - black
<b>Central shaft</b>	EN24 steel
<b>Sun gear</b>	Mild steel - zinc plated
<b>Earth leads</b>	Copper, tin plated
<b>Clamp release levers</b>	Glass-filled nylon
<b>Springs, spindles</b>	Stainless steel
<b>Fixings</b>	Stainless steel



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All flow rates shown were obtained pumping water at 20C (68F) with zero suction and delivery heads.

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Please state the product code when ordering pumps and tubing.