

TC-X401/TC-X501/TC-X801 SERIES 1-1/2", 2" AND 3" AODD PUMPS

APRIL 2019 LAUNCH PRODUCT PRESENTATION



ABOUT IWAKI AMERICA

CONSISTS OF FOUR DIVISIONS

- IWAKI PUMPS
 - Non-Metallic Mag-Drive Chemical Transfer Pumps
 - SANWA Stainless Steel Chemical Transfer Pumps
- WALCHEM
 - Water Treatment Controllers
 - Metering Pumps
- IWAKI AQUATIC
 - Engineered Aquatic Research Systems
- IWAKI AIR AODD
 - Industrial and Pure PTFE Air-Operated Double Diaphragm Pumps

NEW PRODUCT INTRODUCTION

TC-X SERIES 1-1/2", 2" & 3" AODD PUMPS WITH LOOPED C® AIR MOTOR



TC-X501 SERIES



TC-X801 SERIES

MULTIPLE CONFIGURATIONS AVAILABLE

WETTED MATERIALS:

GFR POLYPROPYLENE, PVDF * , ALUMINUM, STAINLESS STEEL, CAST IRON

ELASTOMER OPTIONS:

PTFE, NEOPRENE, BUNA-N, HYTREL, SANTOPRENE, EPDM, VITON

MATERIALS TO MEET ALL OF YOUR CHEMICAL TRANSFER NEEDS

(*) Not Available with 3" Models

401/501/801 PRODUCT OVERVIEW

- Developed as an alternative to the Mechanical Coil Spring Air Motor available on the TC-X400, TC-X500 and TC-X800 Series
- Available with Looped C[®] Sleeve and Spool Air Motor
- Features Ekonol ® seal rings and fully independent Pilot Valves for increased performance, reliability and extended life
- Large solids passage: up to 7mm for TC-X400, 8mm for TC-X500 and 10mm for TC-X800
- 100% Oil lubrication free
- All models have externally accessible Looped C[®] Air Motor Sleeve and Spool Patent Pending design

401/501/801 STRATEGIC PRODUCT PRICING

CUSTOMER-FRIENDLY PRICING STRATEGY

•	TC-X400VS-FLA	Mechanical Valve	List Price \$ 4,600
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• TC-X401VS-FLA New Sleeve & Spool Valve List Price \$ 4,350 (\$ 250 less)

TC-X500AN-NPT Mechanical Valve List Price \$ 1,380

TC-X501AN-NPT New Sleeve & Spool Valve List Price \$ 1,130 (\$ 250 less)

• TC-X800PS-FLA Mechanical Valve List Price \$ 5,800

TC-X801PS-FLA New Sleeve & Spools Valve List Price \$ 5,550 (\$ 250 less)

All of the New TC-X401/501/801 Series are strategically priced \$250 less than the TC-X400/500/800 Series to allow for the end-user economically upgrade to the Mechanical Valve Depending on the Application

NEW TC-X401/501/801 MODEL LOOPED C® AIR MOTOR

- Mechanical assisted Non-Centering Sleeve & Spool design
 - Durable and long-lasting requiring very little maintenance
- High-Tech and Modern Material of Construction
 - Best technology available in the marketplace today
- High-Performance Looped C[®] Springs
 - Resist stalling and provides trouble-free operation
- Newly improved Spring Retainer
 - Allows for smoother operation and even more reliable service
- Ekanol® Seal Rings
 - Has excellent temperature and wear resistance surfaces and services
- Increased Performance and Extended Life Expectancy
 - Lowest Total Cost of Ownership



CURRENT TC-X400/500/800 MODEL AIR MOTOR

- Utilizes Mechanically Assisted Coil-Spring Air Spool
- Designed for High Performance operation with excellent reliability
- Utilizes high-tech specialty materials
- Well suited for frequent start/stop/deadhead/high backpressure applications as well as high head and extended discharge piping
- Can achieve high flow rates efficiently and reliably
- 100% Externally accessible
- Resists freezing and stalling in all conditions
- Oil and grease lubrication free



TC-X 401 SERIES MODEL DETAILS

TC-X401 SERIES AODD PUMP NOMENCLATURE DETAILS								
NOMENCLATURE	CODE	CODE DESCRIPTIONS AND OPTIONS						
AODD PUMP SERIES	TC-X	TC-X = TWIN CHAMBER; EXPORT						
SERIES MODEL	401	401 = 1-1/2" INLET/OUTLET SIZE						
WET END MATERIAL	Α	P=GFRPP; V=CFPVDF; A=ALUMINUM; S=STAINLESS STEEL; F=CAST IRON						
DIAPHRAGM MATERIAL	s	C=NEOPRENE; E=EPDM; N=BUNA-N; H=HYTREL; S=SANTOPRENE; V=VITON; T=PTFE						
-	-	-						
CONNECTION TYPE	FLA	NPT=FEMALE NOMINAL PIPE THREADS (NPT); FLA=ANSI 150# FLANGES						
OPTION CODES (LISTED IN PRICE BOOK)	ххх	MOST COMMON: SB=SANTOPRENE BACKED; PDR=POWDER PUMP; AP=ABRASION PADS; HP-2:1 HIGH PRESSURE; FDA=FDA COMPLIANT HB=CONDUCTIVE HYTREL BACKUP DIAPHRAGMS (FOR ATEX)						



SPECIFICATION BY	TC-X401 SERIES PUMP PORTFOLIO RANGE										
MODEL CONFIGURATION	TC-X401P(X)	TC-X401V(X)	TC-X401PT	TC-X401VT	TC-X401A(X)	TC-X401S(X)	TC-X401F(X)	TC-X401FT	TC-X401ST	TC-X401FT	
AIR MOTOR MATERIAL		ALUMINUM									
AIR MOTOR TYPE		LOOPED C® SLEEVE & SPOOL DESIGN (PATENT PENDING)									
MAX FLOW RATE	118.9 GPM	(390 LPM)	95.1 GPM	(360 LPM)	15	8.5 GPM (600 LPI	VI)	118.9 GPM (450 LPM)			
MAX SOLIDS SIZE		.276" (7	7.0 mm)		.315" (8.0 mm)						
MAX DISCHARGE PRESSURE		100 PSI (0.7 MPa)		1	125 PSI (0.85 MPa)			100 PSI (0.7 MPa)		
INLET AIR PRESSURE RANGE		30 - 100 PSI (0	0.2 - 0.7 MPa)		30 - 13	30 - 125 PSI (0.2 - 0.85 MPa) 30 - 100 PS				MPa)	
MAX SUCTION LIFT	RUBBER (DRY)=	=16'5"; RUBBER (PRIMED)=26'3"; P	TFE (DRY)=6'6"		RUBBER (DRY)=18'05"; RUBBER (PRIMED)=26'3"; PTFE (DRY)=9'10"					
MAX AIR CONSUMPTION	124.1 SCFM (3500 LPM-ANR) 159.6 SCFM (4500 LPM-AN				117.3	117.3 SCFM (5000 LPM-ANR)			159.6 SCFM (4500 LPM-ANR)		
DISPLACEMENT PER CYCLE	.74 GAL (2800 mL) .37 GAL (1400 mL)				.74 GAL (2800 mL) .37 GAL (1400 mL))	
CONNECTION TYPE	1-1/2" ANSI 150# FLANGED CENTER PORTS 1-1/2" FEMALE NOMINAL PIPE THREAD (FNPT); 1-1/2" ANSI 150# FLANGED CENTER PORTS									TER PORTS	

TC-X 501 SERIES MODEL DETAILS

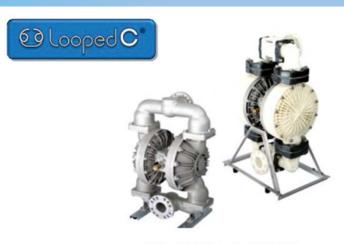
TC-X501 SERIES AODD PUMP NOMENCLATURE DETAILS								
NOMENCLATURE	CODE	CODE DESCRIPTIONS AND OPTIONS						
AODD PUMP SERIES	TC-X	TC-X = TWIN CHAMBER; EXPORT						
SERIES MODEL	501	501 = 2" INLET/OUTLET SIZE						
WET END MATERIAL	Α	P=GFRPP; V=CFPVDF; A=ALUMINUM; S=STAINLESS STEEL; F=CAST IRON						
DIAPHRAGM MATERIAL	s	C=NEOPRENE; E=EPDM; N=BUNA-N; H=HYTREL; S=SANTOPRENE; V=VITON; T=PTFE						
-	-	-						
CONNECTION TYPE	FLA	NPT=FEMALE NOMINAL PIPE THREADS (NPT); FLA=ANSI 150# FLANGES						
OPTION CODES (LISTED IN PRICE BOOK)	ххх	MOST COMMON: SB=SANTOPRENE BACKED; PDR=POWDER PUMP; AP=ABRASION PADS; HP-2:1 HIGH PRESSURE; FDA=FDA COMPLIANT HB=CONDUCTIVE HYTREL BACKUP DIAPHRAGMS (FOR ATEX)						



SPECIFICATION BY	TC-X501 SERIES PUMP PORTFOLIO RANGE										
MODEL CONFIGURATION	TC-X501P(X)	TC-X501V(X)	TC-X501PT	TC-X501VT	TC-X501A(X)	TC-X501S(X)	TC-X501F(X)	TC-X501FT	TC-X501ST	TC-X501FT	
AIR MOTOR MATERIAL		ALUMINUM									
AIR MOTOR TYPE				LOOPED C®	SLEEVE & SPOOL	DESIGN (PATEN	T PENDING)				
MAX FLOW RATE	166.4 GPM ((630 LPM)	153.2 GPM	1 (580 LPM)	20	6.1 GPM (780 LPI	M)	153.2 GPM (580 LPM)			
MAX SOLIDS SIZE					.315" (8	3.0 mm)					
MAX DISCHARGE PRESSURE		100 PSI (0.7 MPa)		1	125 PSI (0.85 MPa)			100 PSI (0.7 MPa)		
INLET AIR PRESSURE RANGE		30 - 100 PSI (0	0.2 - 0.7 MPa)		30 - 1	30 - 125 PSI (0.2 - 0.85 MPa) 30 - 100 PSI (0.2 - 0.7 MPa				MPa)	
MAX SUCTION LIFT	RUBBER (DRY)=1	L6'5"; RUBBER (I	PRIMED)=26'3";	PTFE (DRY)=6'6"		RUBBER (DRY)=18'05"; RUBBER (PRIMED)=26'3"; PTFE (DRY)=9'10"					
MAX AIR CONSUMPTION	194.3 SCFM (5500 LPM-ANR) 211.9 SCFM (6000 LPM-AN				229.5	229.5 SCFM (6500 LPM-ANR)			211.8 SCFM (6000 LPM-ANR)		
DISPLACEMENT PER CYCLE	.925 GAL (3500 mL) .528 GAL (2000 mL)					.925 GAL (3500 mL) .528 GAL (2000 m				L)	
CONNECTION TYPE	2" A	NSI 150# FLANC	GED CENTER POR	RTS	2" FEM	2" FEMALE NOMINAL PIPE THREAD (FNPT); 2" ANSI 150# FLANGED CENTER PORTS					

TC-X 801 MODEL DETAILS

TC-X801 SERIES AODD PUMP NOMENCLATURE DETAILS									
NOMENCLATURE	CODE	CODE DESCRIPTIONS AND OPTIONS							
AODD PUMP SERIES	TC-X	TC-X = TWIN CHAMBER; EXPORT							
SERIES MODEL	801	801 = 2" INLET/OUTLET SIZE							
WET END MATERIAL	Α	P=GFRPP; A=ALUMINUM; S=STAINLESS STEEL; F=CAST IRON							
DIAPHRAGM MATERIAL	S	C=NEOPRENE; E=EPDM; N=BUNA-N; H=HYTREL; S=SANTOPRENE; V=VITON; T=PTFE							
-	-	-							
CONNECTION TYPE	FLA	NPT=FEMALE NOMINAL PIPE THREADS (NPT); FLA=ANSI 150# FLANGES							
OPTION CODES (LISTED IN PRICE BOOK)	ххх	MOST COMMON: SB=SANTOPRENE BACKED; PDR=POWDER PUMP; AP=ABRASION PADS; HP-2:1 HIGH PRESSURE; FDA=FDA COMPLIANT HB=CONDUCTIVE HYTREL BACKUP DIAPHRAGMS (FOR ATEX)							



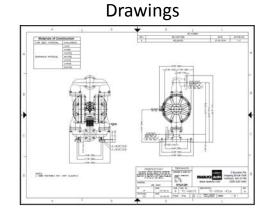
TC-X801 SERIES

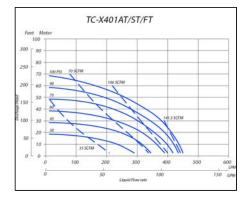
SPECIFICATION BY	TC-X801 SERIES PUMP PORTFOLIO RANGE										
MODEL CONFIGURATION	TC-X801P(X)	TC-X801V(X)	TC-X801PT	TC-X801VT	TC-X801A(X)	TC-X801S(X)	TC-X801F(X)	TC-X801FT	TC-X801ST	TC-X801FT	
AIR MOTOR MATERIAL		ALUMINUM									
AIR MOTOR TYPE				LOOPED C®	SLEEVE & SPOOL	DESIGN (PATENT	PENDING)				
MAX FLOW RATE	216.6 GPM	(820 LPM)	169.1 GPM	(640 LPM)	25	1.0 GPM (950 LPI	M)	16	9.1 GPM (640 LPI	M)	
MAX SOLIDS SIZE					.394" (10	0.0 mm)					
MAX DISCHARGE PRESSURE		100 PSI (0.7 MPa) 125 PSI (0.85 MPa) 100 PSI (0.7 MPa)									
INLET AIR PRESSURE RANGE		30 - 100 PSI (0	0.2 - 0.7 MPa)		30 - 1	30 - 125 PSI (0.2 - 0.85 MPa) 30 - 100 PSI (0.2 - 0.7 MPa				MPa)	
MAX SUCTION LIFT	RUBBER (DRY)=	=16'5"; RUBBER (PRIMED)=26'3"; F	TFE (DRY)=6'6"		RUBBER (DRY)=18'05"; RUBBER (PRIMED)=26'3"; PTFE (DRY)=9'10"					
MAX AIR CONSUMPTION		264.9 SCFM (7	500 LPM-ANR)		282.6	282.6 SCFM (8000 LPM-ANR)			264.9 SCFM (7500 LPM-ANR)		
DISPLACEMENT PER CYCLE	1.796 GAL (6800 mL) .845 GAL (3200 mL)				1.	1.796 GAL (6800 mL) .845 GAL (3200 mL)				_)	
CONNECTION TYPE	3" ANSI 150# FLANGED CENTER PORTS 3" FEMALE NOMINAL PIPE THREAD (FNPT); 3" ANSI 150# FLANGED CENTER PORTS									PORTS	

TC-X401/501/801 SERIES PRODUCT SUPPORT MATERIALS



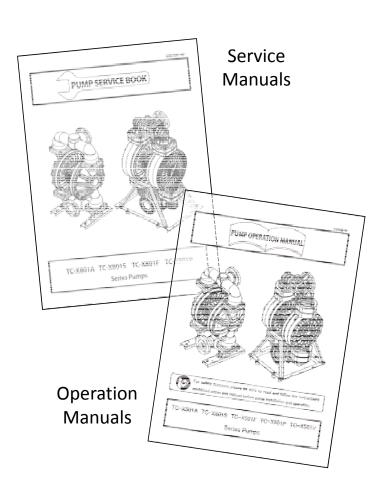
Data Sheets





Performance Curves

Available for Download at www.IwakiAIR.com



- Tank Unloading
 - Railcar, Truck, Storage
 - Advantages
 - Portable
 - Self Priming



- Chemical Transfer
 - Acids, Alkalis, Waste
 - Advantage
 - Chemical Resistance



- Paints & Adhesives
 - Paint, Coatings, Glue, Adhesives, Sealants
 - Advantage
 - Moves High Viscosities, Non-Shearing





- Printing
 - Ink, Cleaners, Binders
 - Advantage
 - Small Size High Flow
 - Aggressive Properties of Inks



- Oil & Gas
 - Oil, Mud, Coolants, Spills
 - Advantage
 - Non-Conductive, Intrinsically Safe

- Refineries
 - Sludge, Cleaners
 - Advantage
 - Non-Conductive
 - Intrinsically Safe



- Waste Water
 - Chemicals & Solids
 - Chemical Dosing
 - Advantage
 - Chemical Resistance



- Filter Press
 - Abrasive Solids With High Pressure
 - Advantage
 - Abrasion & Dead Head Resistant
 - High Pressure 2:1 Pumps Available



- Food
 - Cleaning, Chemical, Waste
 - Advantage
 - FDA
 - Electro-polished
 - Can be used up to the pasteurizing stage
 - Used often for ingredient batching



- Beverage
 - Cleaning, Dosing, Waste
 - Bottle and can preparation before filling



- Marine
 - Bilge & Bulk Transfer, Sumping
 - Advantage
 - Robust Construction





- Mining
 - De-Watering, Lubrication
 - Advantage
 - Non-conductive

- Ceramics
 - Ceramic Slip & Glaze
 - Advantages
 - Withstands Abrasion



- Road Surface
 - Coatings, Striping,
 - Blacktop
 - Advantage
 - Portable, Air Driven



- Plating
 - Chemical, Waste, Flammables
 - Advantage
 - Chemical Resistant
 - Intrinsically Safe



- Pulp & Paper
 - Chemicals, Inks
 - Advantage
 - Multi-Purpose



- Textiles
 - Bleach, Colorant, Glue
 - Advantage
 - Multiple Applications
 - Portable



And Many, Many more vertical markets and applications where reliable transfer of all kinds of fluids and fluid types need to be moved safely, efficiently and at the lowest cost possible

You Can Rely on IWAKI AIR to get the job done!!!