

CRANE®

CRANE® Pharma Solutions

Hygienic and corrosion resistant lined solutions for high reliability in pharmaceutical applications

CRANE®

www.cranecpe.com



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Crane ChemPharma & Energy

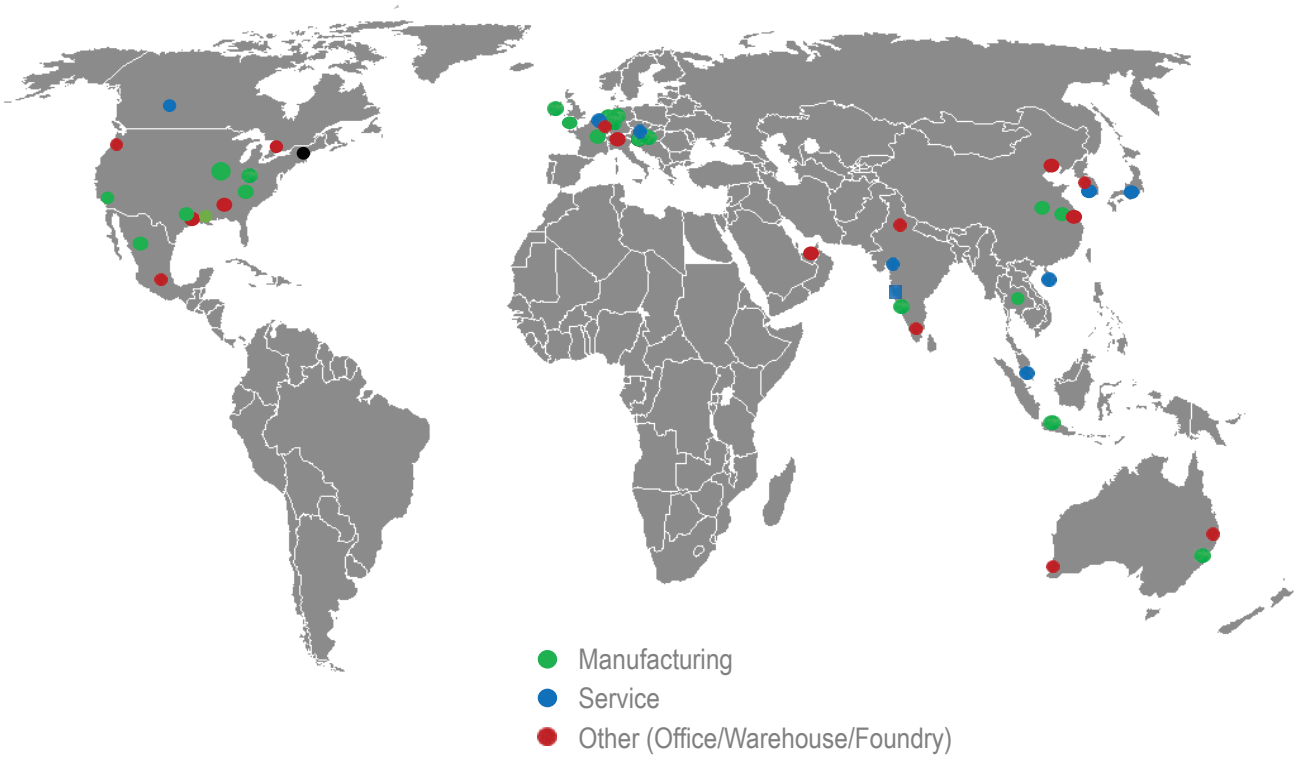
Introduction

Crane Company is a diversified manufacturer of highly engineered industrial products with a substantial presence in a number of focused niche markets. We are dedicated to integrity and honest dealings in all that we do.

Crane CP&E designs and manufactures a variety of high performance products including: highly-engineered check valves, sleeved plug valves, lined valves, process ball valves, high performance butterfly valves, bellows sealed globe valves, aseptic and industrial diaphragm valves, multi/quarter-turn valves, actuation, sight glasses, lined pipe, fitting and hoses, and air-operated diaphragm and peristaltic pumps. Its trusted brands are in use worldwide in many industries including Oil & Gas, Oil Refining, Petrochemical, Power Generation, Chemical Processing, Biotechnology, and Pharmaceutical.

CRANE® CP&E LOCATIONS

SUPPORT ON A LOCAL LEVEL WORLDWIDE



CPE MANUFACTURING SITES


Chihuahua, MX


Lindau, DE


Muta, SL


Duesseldorf, DE


Cwmbran, UK


Satara, India


Suzhou, China


Ningiin, China


Dammam, Saudi


Cincinnati, OH


Marion, NC


Saddle Brook, NJ


Spartanburg, SC


Charleston, WV


Montgomery, TX


Jurupa Valley, CA


Brazil, IN

AMERICAS: CONROE, TX • CHIHUAHUA, MEX • CINCINNATI,OH • CULLMAN, AL • EDMONTON, AB • GONZALES, LA • HOUSTON, TX • MARION, NC • MEXICO CITY, MX • PORTLAND, OR • SADDLE BROOK, NJ • SPARTANBURG, SC • HQ: THE WOODLANDS (HOUSTON), TX, • CHARLESTON, WV • JURUPA VALLEY, CA • BRAZIL, IN

EUROPE: CWMBRAN, UK • CRONING , SL • DÜSSELDORF, DE • LINDAU, DE • SZÉKESVERHÉRVÁR, HU • MUTA, SL • MILAN, IT • MULHOUSE, FR • BERGSCHENHOEK, NL • WAALWIJK, NL • WAVRE, BE

ASIA: BEIJING, PRC • CHENNAI (MADRAS), INDIA • KANAGAWA, JAPAN • NINJIN, PRC • PUNE, INDIA • SATARA, INDIA • SHANGHAI, PRC • SINGAPORE • SUZHOU, PRC • VIRALIMALAI, INDIA

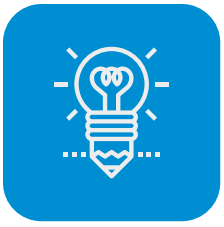
AUSTRALIA: BRISBANE • KEWDALE • MELBOURNE • ST. MARYS

MIDDLE EAST: AL KHOBAR, SAUDI ARABIA • DUBAI, UAE

CRANE

CRANE® COMPETITIVE ADVANTAGE

CRANE ChemPharma & Energy: your business partner that offers trusted brands and flow solutions on a local level, worldwide. Together, we present our customers with a strong portfolio of proven products and complete fluid handling solutions within the pharmaceutical, biotechnology, chemical, mining, oil & gas, power and refining industries. As one Crane ChemPharma & Energy Team, we offer innovative technology, financial stability, best practices, and we improve customer satisfaction by delivering a superior customer experience.



FDA APPROVED CONDUCTIVE LINER AND PURE PTFE & PFA SOLUTIONS

Lined valves and piping designed for corrosive and abrasive applications in small molecule and peptides production facilities.



DESIGNED FOR DEMANDING PHARMACEUTICAL ENVIRONMENTS

Safe, efficient, and reliable operation from synthesis and CIP/SIP processes to transport and storage of active pharmaceutical ingredients (APIs).



COMPREHENSIVE PRODUCT PORTFOLIO SERVING PHARMA

From lined pipes and valves, to automation and sensors to address GMP (Good Manufacturing Practices) in Pharma applications.



PROVEN INSTALLED BASE

Trusted by Major Pharmaceutical End Users with large install base.

CRANE®
BRANDS YOU TRUST

XOMOX®

Established in 1956, XOMOX® offers the broadest range of process valves and actuators in the industry, including quarter-turn sleeved plug valves, ball valves, high performance butterfly valves and lined plug and ball valves. XOMOX® products are intended for corrosive and toxic chemical processing applications and feature superior fugitive emissions control.

Saunders®

the science inside

SAUNDERS® is a leading global supplier of aseptic diaphragm valve flow solutions. A comprehensive platform of innovative forged and machined block solutions, unique in-house polymer competence and class leading automation and sensing technologies.

KROMBACH® ARMATUREN

KROMBACH® is best known for its unique ability to manufacture large quarter turn valves, triple offset valves, metal-seated ball valves, and check valves. Typical applications include severe-service conditions in corrosive, abrasive, high temperature, gases, chemical, mining, and pharmaceutical processes, among others.

WESTLOCK® CONTROLS

WESTLOCK® is a global leader in valve monitoring and control solutions for critical industrial applications. With more than 40 years of experience, WESTLOCK® provides limit switchboxes, position transmitters, integrated control monitors and smart and digital positioners designed to improve valve reliability, operational safety and process performance across industries including chemical, oil & gas, pharmaceutical, power, and water & wastewater.

RESISTOFLEX®

RESISTOFLEX® offers plastic-lined pipe, fittings, complex shapes, vessels, tanks and hoses in HDPE (high-density polyethylene), PP (propylene), PVDF (polyvinylidene fluoride), ETFE (ethylene tetrafluoroethylene) and PTFE (polytetrafluoroethylene). RESISTOFLEX® offers solutions for resolving permeation issues in severe service applications. Resistoflex® corrosion-resistant plastic lined pipe, fittings, and TEFLON® chemical hoses are used in corrosive fluid services as an economical alternative to expensive alloys.

CRANE®
Solutions for Pharma

Small molecule API manufacturing involves a series of chemical reactions, separation, purification steps, solvent handling operations, and final product isolation. Throughout the process, equipment is routinely exposed to corrosive acids, caustics, solvents, intermediates, cleaning chemicals, and waste streams. The primary operational challenges include corrosion of metallic equipment, product contamination from exposed metals, fugitive emissions, unplanned maintenance, and safety risks associated with handling aggressive process fluids. These challenges can negatively impact product quality, regulatory compliance, plant reliability, and overall production costs.

Peptide manufacturing is a complex, multi-step process requiring precise control of chemistry, purity, and contamination. During peptide synthesis and downstream processing, manufacturers may handle aggressive acids, bases, solvents, reagents, and cleaning media. These demanding conditions place significant requirements on the valves used to isolate and control process streams.

CRANE® CP&E delivers a robust, engineered valve solutions that pharmaceutical companies rely on, providing proven durability and consistent performance across small molecule applications, peptides production both in powder/tablet and liquid forms.

CRANE® VALVES
SUPPORT PHARMACEUTICAL OPERATIONS

Lined Valves: Reliable Abrasion and Corrosion Resistance

XOMOX® lined valves are designed for applications where corrosion resistance, reliable shutoff, and protection of the process media from metallic wetted surfaces are critical. High-performance fluoropolymer linings provide a robust barrier between aggressive process fluids and the valve body, helping support safe and dependable operation across demanding small molecule and peptide manufacturing processes.

Lined Pipes and Fittings: Safe Transfer of Aggressive Media

RESISTOFLEX® lined piping systems provide reliable corrosion protection for the safe transfer of aggressive process media. High-performance fluoropolymer linings protect metallic piping from corrosive chemicals, supporting long service life and dependable operation.

Aseptic and Hygienic Products: Purity, Cleanability and Contamination Control

SAUNDERS® hygienic valves support demanding pharmaceutical processes where product purity, cleanability and contamination control are essential. Their hygienic design helps minimize dead ends and retained media while supporting effective cleaning and sterilization.

Process Automation

WESTLOCK CONTROLS® offers the K20 Smart Valve Positioner, delivering precise, reliable control of ball, butterfly, and plug valves in demanding process applications. Complementing this offering, the Quantum Series integrates position sensing and solenoid control into a single intelligent, compact device, reducing component count, simplifying installation, accelerating commissioning, and providing dependable long-term performance.

Crane Solutions for every Step of the Process

Driver	Typical Challenge	Crane Solution
Corrosive Media	Aggressive acids, bases, solvents and reactive chemicals	XOMOX Lined Ball Valve, Butterfly Valve, Lined Check Valves RESISTOFLEX Lined Pipes
Product Contamination Risk	Exposed metals, dead ends and trapped process media	SAUNDERS Aseptic Diaphram Valves XOMOX Stainless Steel Lined Ball Valve
Fugitive Emissions	Solvent vapor or chemical leakage through valve sealing points	XOMOX Lined Ball Valve, Butterfly Valve, Lined Check Valves
Product Hold-Up	Valuable API, liquid, crystals or solids retained in valves	SAUNDERS Industrial Diaphragm Valves XOMOX Lined Plug Valve , Lined Ball Valve
Slurries & Crystallization	Solids buildup, plugging, abrasion and erosion	SAUNDERS Industrial Diaphragm Valves XOMOX Lined Plug Valve
Cleaning & Changeovers	Cavities, retained media and difficult-to-drain areas	SAUNDERS Aseptic Diaphram Valves
Vacuum & Thermal Cycling	Vacuum, elevated temperatures and changing process conditions	XOMOX Lined Ball Valve, Butterfly Valve, Lined Check Valves RESISTOFLEX Lined Pipes
Hazardous Area Classification	Flammable solvents and certain powder-handling services	XOMOX FDA Approved Antistatic Lined Valves

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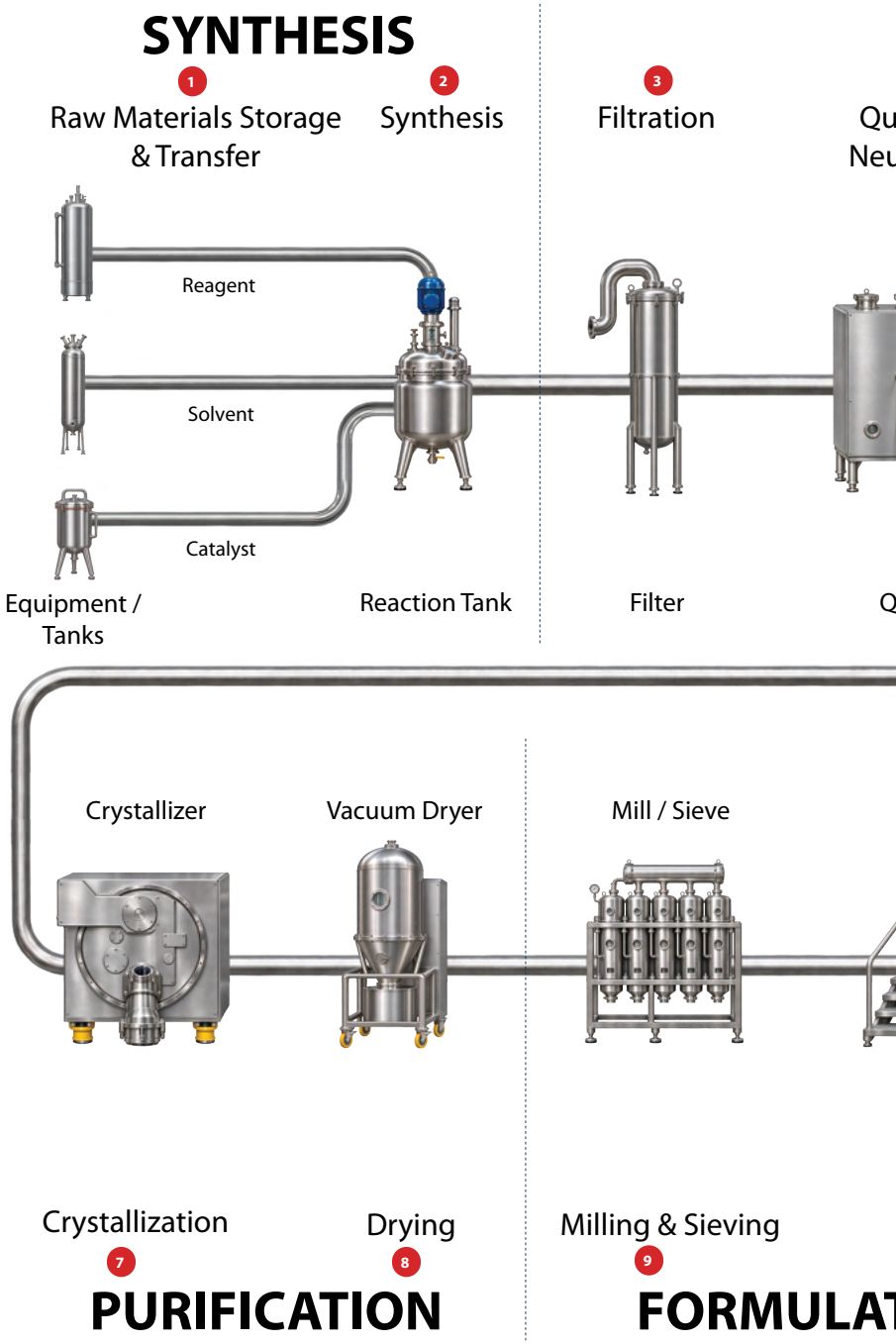
CRANE® PHARMA
SMALL MOLECULES SOLUTIONS DIAGRAM

SMALL MOLECULES PROCESES		
1	**RAW MATERIALS STORAGE & TRANSFER**	
	RESISTOFLEX	Lined Pipes and Hoses
	XOMOX	Lined Ball Valves
	XOMOX	Lined Plug Valves
2	**SYNTHESIS**	
	RESISTOFLEX	Lined Pipes and Hoses
	XOMOX	Lined Ball Valves
	XOMOX	Lined Plug Valves
	XOMOX	Lined Check Valves
	XOMOX	Lined Sight Glasses
	XOMOX	Pneumatic Actuators
	WESTLOCK	Limit Switches and Positioners
3	**FILTRATION**	
	RESISTOFLEX	Lined Pipes and Hoses
	XOMOX	Lined Butterfly Valves
	XOMOX	Lined Check Valves
	SAUNDERS	Industrial Diaphragm Valves
	XOMOX	Pneumatic Actuators
	WESTLOCK	Limit Switches and Positioners
4	**QUENCHING / NEUTRALIZATION**	
	RESISTOFLEX	Lined Pipes and Hoses
	XOMOX	Lined Ball Valves
	XOMOX	Lined Plug Valves
	XOMOX	Pneumatic Actuators
	WESTLOCK	Limit Switches and Positioners
5	**EXTRACTION / PHASE SEPARATION**	
	RESISTOFLEX	Lined Pipes and Hoses
	SAUNDERS	Industrial Diaphragm Valves
	SAUNDERS	Aseptic Diaphragm Valves
	XOMOX	Pneumatic Actuators
	WESTLOCK	Limit Switches and Positioners

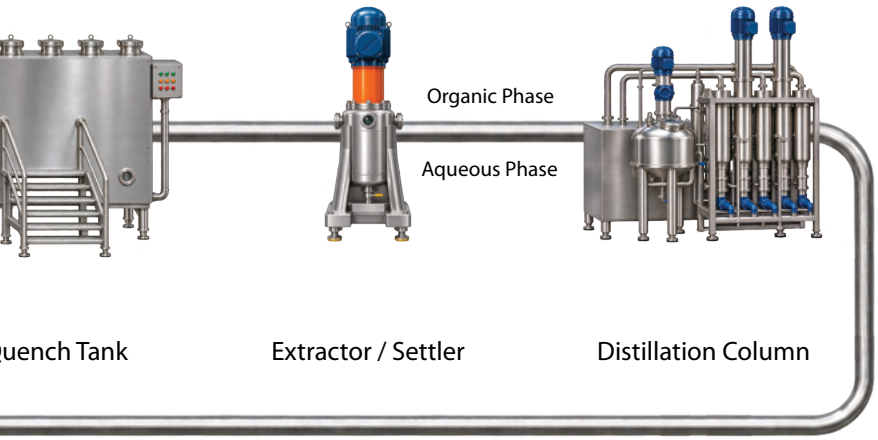


PURIFICATION

4 uenching / utralization

5 Extraction / Phase Separation

6 Distillation / Solvent Recovery



uench Tank

Extractor / Settler

Distillation Column

Granulator

Tableting Machine

Packaging Machine

Distribution



Granulation

10

TION

Packaging & Distribution

11

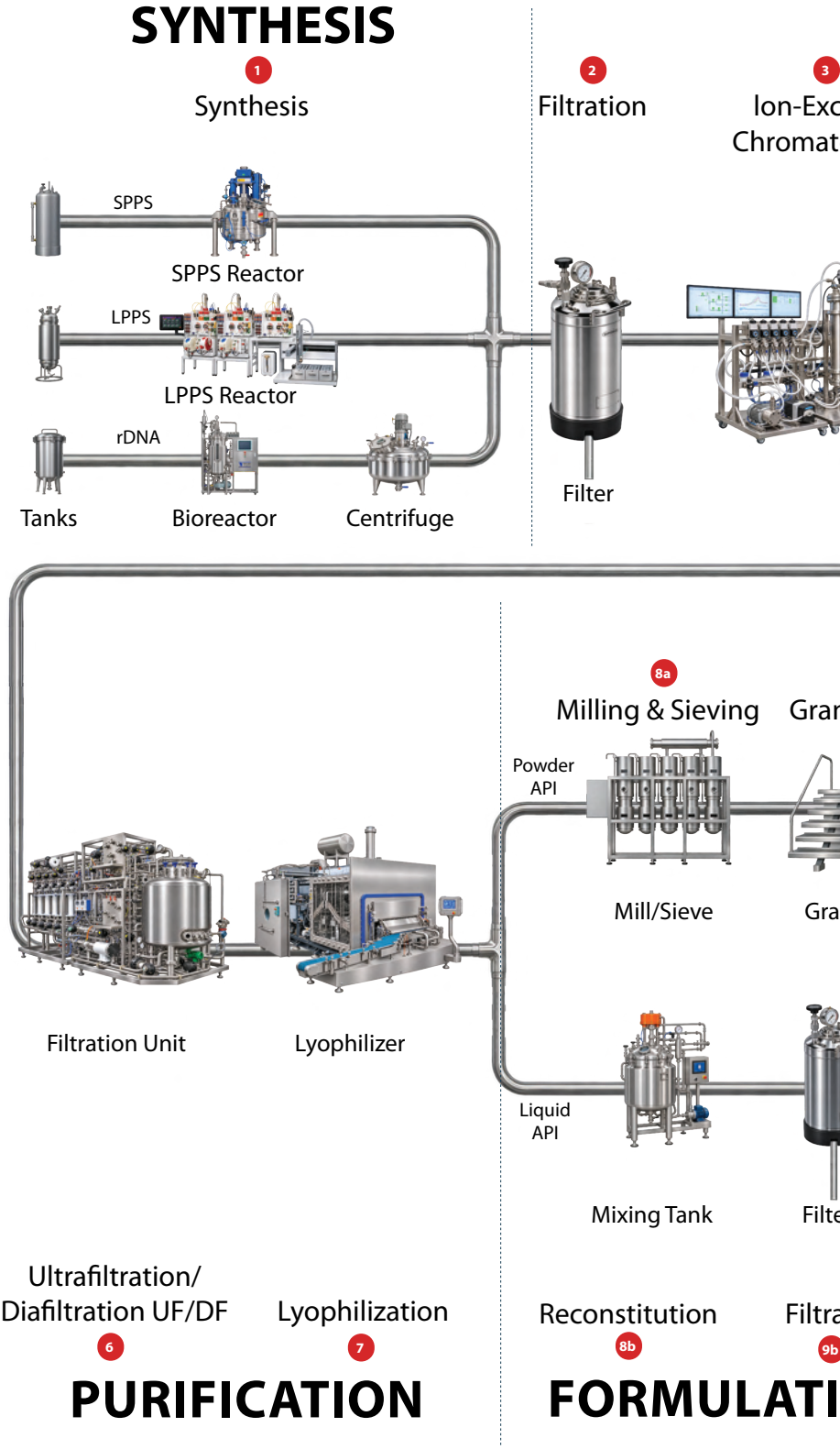
TABLETING & PACKAGING

SMALL MOLECULES PROCESES		
6	**DISTILLATION / SOLVENT RECOVERY**	
	RESISTOFLEX	Lined Pipes and Hoses
	SAUNDERS	Industrial Diaphragm Valves
	SAUNDERS	Aseptic Diaphragm Valves
	XOMOX	High Performance Butterfly Valves
	KROMBACH	Triple Offset Valves
	XOMOX	Pneumatic Actuators
	WESTLOCK	Limit Switches and Positioners
7	**CRYSTALLIZATION**	
	RESISTOFLEX	Lined Pipes and Hoses
	XOMOX	Lined Ball Valves
	SAUNDERS	Industrial Diaphragm Valves
	SAUNDERS	Aseptic Diaphragm Valves
	XOMOX	Pneumatic Actuators
	WESTLOCK	Limit Switches and Positioners
8	**DRYING**	
	RESISTOFLEX	Lined Pipes and Hoses
	SAUNDERS	Aseptic Diaphragm Valves
	WESTLOCK	Limit Switches and Positioners
9	**MILLING & SIEVING**	
	SAUNDERS	Aseptic Diaphragm Valves
	WESTLOCK	Limit Switches
10	**GRANULATION**	
	SAUNDERS	Aseptic Diaphragm Valves
	WESTLOCK	Limit Switches
11	**PACKAGING & DISTRIBUTION**	
	SAUNDERS	Aseptic Diaphragm Valves
	WESTLOCK	Limit Switches

CRANE

CRANE® PHARMA
PEPTIDE SOLUTIONS DIAGRAM

PEPTIDE PROCESES	
1 SYNTHESIS	
SPPS and LPPS	
RESISTOFLEX	Lined Pipes and Hoses
XOMOX	Lined Ball Valves
XOMOX	Lined Plug Valves
XOMOX	Lined Check Valves
XOMOX	Lined Sight Glasses
XOMOX	Pneumatic Actuators
WESTLOCK	Limit Switches and Positioners
rDNA	
SAUNDERS	Aseptic Diaphragm Valves
SAUNDERS	Sensors
XOMOX	Pneumatic Actuators
WESTLOCK	Limit Switches and Positioners
2 FILTRATION	
RESISTOFLEX	Lined Pipes and Hoses
XOMOX	Lined Ball Valves
XOMOX	Lined Plug Valves
XOMOX	Lined Check Valves
XOMOX	Lined Sight Glasses
SAUNDERS	Industrial Diaphragm Valves
XOMOX	Pneumatic Actuators
WESTLOCK	Limit Switches and Positioners
3 LON-EXCHANGE CHROMATOGRAPHY	
RESISTOFLEX	Lined Pipes and Hoses
XOMOX	Lined Sight Glas
4 REVERSE PHASE HIGH PERFORMANCE LIQUID CHROMATOGRAPHY (RP HPLC)	
SAUNDERS	Aseptic Diaphragm Valves
5 SIZE EXCLUSION CHROMATOGRAPHY	
SAUNDERS	Aseptic Diaphragm Valves
6 ULTRAFILTRATION/DIAFILTRATION UF/DF	
RESISTOFLEX	Lined Pipes and Hoses
XOMOX	Lined Ball Valves
XOMOX	Lined Check Valves
XOMOX	Lined Sight Glasses
XOMOX	Pneumatic Actuators
WESTLOCK	Limit Switches and Positioners



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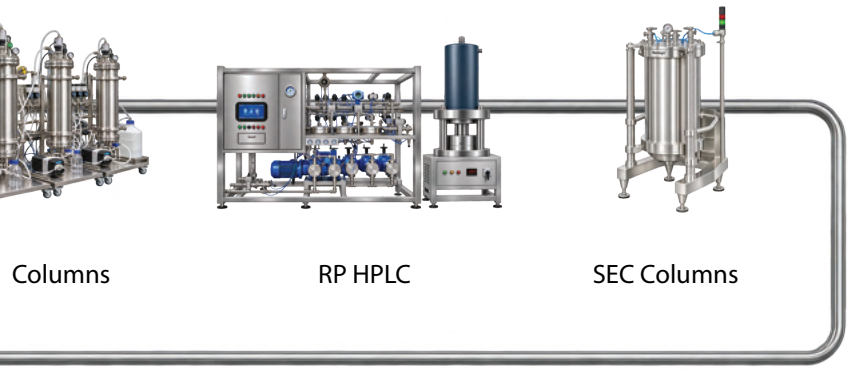
PURIFICATION

hange
ography

4 Reverse Phase High Performance Liquid Chromatography (RP HPLC)

5 Size Exclusion Chromatography



Columns

RP HPLC

SEC Columns

TABLETING & PACKAGING

9a
nulation

10a Tablets Packaging & Distribution



nulator

Tableting Machine

Packaging Machine

Distribution



er

Filling Machine

Packaging Machine

Distribution

ation

ON

Injections Packaging & Distribution

10b

FILL & FINISH

PEPTIDE PROCESES

7	**LYOPHILIZATION**	
	RESISTOFLEX	Lined Pipes and Hoses
	SAUNDERS	Aseptic Diaphragm Valves
	SAUNDERS	Sensors
	XOMOX	Pneumatic Actuators
	WESTLOCK	Limit Switches
8a	**MILLING & SIEVING**	
	SAUNDERS	Aseptic Diaphragm Valves
	SAUNDERS	Sensors
	XOMOX	Pneumatic Actuators
	WESTLOCK	Limit Switches
8b	**RECONSTITUTION**	
	SAUNDERS	Aseptic Diaphragm Valves
	SAUNDERS	Sensors
	XOMOX	Pneumatic Actuators
	WESTLOCK	Limit Switches
9a	**GRANULATION**	
	SAUNDERS	Aseptic Diaphragm Valves
	SAUNDERS	Sensors
	XOMOX	Pneumatic Actuators
	WESTLOCK	Limit Switches
9b	**FILTRATION**	
	SAUNDERS	Aseptic Diaphragm Valves
	SAUNDERS	Sensors
	XOMOX	Pneumatic Actuators
	WESTLOCK	Limit Switches
10a	**TABLETS PACKAGING & DISTRIBUTION**	
	SAUNDERS	Aseptic Diaphragm Valves
	SAUNDERS	Sensors
	XOMOX	Pneumatic Actuators
	WESTLOCK	Limit Switches
10b	**INJECTIONS PACKAGING & DISTRIBUTION**	
	SAUNDERS	Aseptic Diaphragm Valves
	SAUNDERS	Sensors
	XOMOX	Pneumatic Actuators
	WESTLOCK	Limit Switches

LINED BALL VALVES

XOMOX Lined Ball Valves Series XLB Standard

TECHNICAL DETAILS

MATERIALS OF CONSTRUCTION Body: EN 1563 / EN-GJS-400-18-LT (5.3103) ASTM A395 / 60-40-18, PFA, Ball: 1.4470/ASTM A995 gr 4A, PFA
SIZE RANGE ½" / DN 15 through 6" / DN 150 full port
PRESSURE RATINGS ASME Class 150, PN16 and JIS10
TEMPERATURE RANGE -29° C to 204° C / –20 °F to 400 °F

FEATURES AND BENEFITS

COMPACT DESIGN Allows installation in space restricted areas in parallel piping system
LOWER TORQUES Smaller actuators, reduced costs, space and weight savings
CERTIFICATION FDA, ATEX
ISO 15848 AND TA-LUFT 2021 COMPLIANT After 4 thermal cycles and 2500 cycles less than 20PPM fugitive emissions to atmosphere
SINGLE PIECE DESIGN Single piece ball and stem to improve torque and transfer and ensure alignment under side load conditions



XOMOX Lined Ball Valves Series XLB Anti-Static

TECHNICAL DETAILS

MATERIALS OF CONSTRUCTION Body: EN 1563 / EN-GJS-400-18-LT (5.3103) ASTM A395 / 60-40-18, PFA antistatic Ball: 1.4470/ASTM A995 gr 4A, PFA antistatic
SIZE RANGE ½" / DN 15 through 6" / DN 150 full port
PRESSURE RATINGS ASME Class 150, PN16 and JIS10
TEMPERATURE RANGE -29 ° C to 204 ° C / –20 °F to 400 °F

FEATURES AND BENEFITS

COMPACT DESIGN Allows installation in space restricted areas in parallel piping system
LOWER TORQUES Smaller actuators, reduced costs, space and weight savings
CERTIFICATION FDA, ATEX
ISO 15848 AND TA-LUFT 2021 COMPLIANT After 4 thermal cycles and 2500 cycles less than 20PPM fugitive emissions to atmosphere
SINGLE PIECE DESIGN Single piece ball and stem to improve torque and transfer and ensure alignment under side load conditions
FDA CERTIFIED ANTISTATIC LINER Ball and body are lined with FDA-certified antistatic PFA to provide electrical conductivity in applications where electrostatic charge buildup may occur. Suitable for use in hazardous ATEX-classified areas and compliant with ATEX Directive 2014/34/EU



XOMOX Lined Ball Valves Series XLB Stainless Steel

TECHNICAL DETAILS

MATERIALS OF CONSTRUCTION Body: EN 1.4408 / ASTM CF8M, PFA Ball: 1.4470/ASTM A995 gr 4A, PFA
SIZE RANGE ½" / DN 15 through 6" / DN 150 full port
PRESSURE RATINGS ASME Class 150, PN16 and JIS10
TEMPERATURE RANGE -60° C to 204° C / –76 °F to 400 °F

FEATURES AND BENEFITS

COMPACT DESIGN Allows installation in space restricted areas in parallel piping system
LOWER TORQUES Smaller actuators, reduced costs, space and weight savings
CERTIFICATION FDA, ATEX
ISO 15848 AND TA-LUFT 2021 COMPLIANT After 4 thermal cycles and 2500 cycles less than 20PPM fugitive emissions to atmosphere
SINGLE PIECE DESIGN Single piece ball and stem to improve torque and transfer and ensure alignment under side load conditions
MAXIMIZE CLEANLINESS Eliminate the need for paint that can enter the process or affect the atmosphere near the valve
ALL STAINLESS STEEL CONSTRUCTION All componnets including bolts and fastners, lever and stop plate in stainless steel construction



LINED BALL VALVES

XOMOX Lined Ball Valves Series Cavity-Free C-Ball

TECHNICAL DETAILS

MATERIALS OF CONSTRUCTION Body: EN 1563 / EN-GJS-400-18-LT (5.3103) ASTM A395 / 60-40-18, PFA Ball: 1.4470/ASTM A995 gr 4A, PFA
SIZE RANGE ½" / DN 15 through 6" / DN 150 full port
PRESSURE RATINGS ASME Class 150, PN16 and JIS10
TEMPERATURE RANGE -29° C to 204° C / –20 °F to 400 °F

FEATURES AND BENEFITS

PREVENTS CROSS-CONTAMINATION by eliminating media entrapment and build-up in the cavity
SPHERICAL STEM AND PATENTED SX SEAL allow for floating ball and pressure assisted in-line seal for great sealing
CIP AND SIP READY ensure through flow and cavity free design to allow complete cleaniliness during CIP and SIP process



LINED BUTTERFLY VALVES

XOMOX Butterfly Valves Series XLD Standard

TECHNICAL DETAILS

MATERIALS OF CONSTRUCTION Body and Disc in EN-JS1049 / ASTM A395 Ductile Iron, PFA / Teflon® Lined.
SIZE RANGE 2" – 24" / DN50 – DN600
PRESSURE RATINGS Suitable for vacuum service (0.02 psi/1,33 hPa) Shut-off Pressure max. 150 psi/10 bar
TEMPERATURE RANGE -20° C to 200° C / 253 K to 473 K / -4° F to 392° F

FEATURES AND BENEFITS

ISO 15848 AND TA-LUFT 2021 COMPLIANT After 4 thermal cycles and 2500 cycles less than 20PPM fugitive emissions to atmosphere
BEST IN CLASS TORQUES Ease of use for operators and reduced initial investment of automation through INNOVATIVE BACKUP RING and STEM SEALING
ENHANCED IN LINE SEAL Valves are bubble tight on seat test and shell test after 10.000 open-close cycles



XOMOX Butterfly Valves Series XLD Anti-Static

TECHNICAL DETAILS

MATERIALS OF CONSTRUCTION Body and Disc in EN-JS1049 / ASTM A395 Ductile Iron, PFA / Teflon® Lined.
SIZE RANGE 2" – 24" / DN50 – DN600
PRESSURE RATINGS Suitable for vacuum service (0.02 psi/1,33 hPa) Shut-off Pressure max. 150 psi/10 bar
TEMPERATURE RANGE -20° C to 200° C / 253 K to 473 K / -4° F to 392° F

FEATURES AND BENEFITS

ISO 15848 AND TA-LUFT 2021 COMPLIANT After 4 thermal cycles and 2500 cycles less than 20PPM fugitive emissions to atmosphere
BEST IN CLASS TORQUES Ease of use for operators and reduced initial investment of automation through INNOVATIVE BACKUP RING and STEM SEALING
ENHANCED IN LINE SEAL Valves are bubble tight on seat test and shell test after 10.000 open-close cycles
FDA CERTIFIED ANTISTATIC LINER Ball and body are lined with FDA-certified antistatic PFA to provide electrical conductivity in applications where electrostatic charge buildup may occur. Suitable for use in hazardous ATEX-classified areas and compliant with ATEX Directive 2014/34/EU



OTHER LINED VALVES

XOMOX Lined Plug Valves



TECHNICAL DETAILS

SIZE RANGE 1/2" to 12" / DN 15 to DN 300
TEMPERATURE RANGE -40° C up to 200° C / –40 °F to 392 °F

FEATURES AND BENEFITS

LOCKED IN LINER There are no cavities where flow media can accumulate or contaminate.
LARGE SEAL AREA Cast-in ribs behind the body lining concentrate compression of the lining between the ribs and the plug. This assures a full circumferential in-line seal. There is also a full circumferential seal around the plug, both above and below the flow passage.
IN-LINE ADJUSTMENTS The locked in lining resists shrinkage, collapse, and blow-out. Higher pressures and vacuums are easily handled.

XOMOX Lined Check Valves Series XLC



TECHNICAL DETAILS

MATERIALS OF CONSTRUCTION Ductile Iron EN-JS 1049/60-40-18, ASTM A395, PFA Lined
Flange Ductile Iron EN-JS 1049/60-40-18 ASTM A395, PFA Teflon Lined. Ball Teflon PTFE solid ball
SIZE RANGE ½" to 12"

FEATURES AND BENEFITS

- Equipment and Process Protection
- Low Cost Option for Horizontal Mounting
- Safety from External Leaks and Corrosion

XOMOX Lined Sight Glasses Series



TECHNICAL DETAILS

MATERIALS OF CONSTRUCTION Ductile Iron EN-JS 1049/60-40-18, ASTM A395, PFA Lined
Flange Ductile Iron EN-JS 1049/60-40-18 ASTM A395, PFA Teflon Lined. Ball Teflon PTFE solid ball
SIZE RANGE DN15 (1/2") through DN150 (6")
PRESSURE RANGE (Cl. 150#) / PN10/16
TEMPERATURE RANGE -10C to 180C (-14F to 356F)

FEATURES AND BENEFITS

- Excellent corrosion resistant lining materials
- No product retention when installed vertically
- FDA-Approved PFA and conductive PFA high-qualit lining material
- Protective AY-PUR coating effectively prevents external corrosion

XOMOX Lined Sampling Valves



TECHNICAL DETAILS

MATERIALS OF CONSTRUCTION PFA fluorocarbons / PFA lined ductile iron / Ductile iron / PFA / PTFE / carbon steel / Tempered glass
SIZE RANGE ½" to 6" / DN 15 to DN 150
PRESSURE RATINGS To 275 PSI®
TEMPERATURE RANGE –29 °C to 149 °C / -20° F to 300° F

FEATURES AND BENEFITS

- Closing through needle-stem with axial boring and knurled handle
- Easy and quick operation
- Leak tightness by means of Teflon stem packing

BUTTERFLY VALVES

XOMOX High Performance Butterfly Valves Series HPBV

TECHNICAL DETAILS

MATERIALS OF CONSTRUCTION Standard: 1.0619, 1.4408; A216 Gr. WCB, A351 Gr. CF8M / **Optional materials** available upon request including but not limited to Duplex, Superduplex, LCC/LCB, WC6, CF3M, Monel®, Inconel®, Hastelloy®, Alloy 20; 1.4469, 1.7357, 1.4409, 2.4460, 1.4539
SIZE RANGE Standard: DN 80 to DN 600 or 3" to 24" / **Optional Series 800:** up to DN 2600 or 102"
PRESSURE RANGE Standard: PN 10, 16, 25, 40; ASME Class 150 & 300# / **Optional Series 800:** up to PN 100 or 600# JIS, BS, API and other pressureclasses on request
BODY CONFIGURATIONS Wafer & LUG acc. to DIN EN 558 (R16, R20, R25) & API 609
TEMPERATURE RANGE PTFE / RPTFE: -70° C to +232° C; -94° F to 450° F / **Metal-PEEK:** -70° C to +260° C; -94° F to 500° F / **Fire-Safe (Metal/PTFE):** -70° C to +300° C; -94° F to 572° F / **Metal/Graphite:** -70° C to +550° C; -94° F to 1022° F / **Cryogenic (Metal-PCTFE):** -196° C to +50° C; -321° F to 122° F

FEATURES AND BENEFITS

ENDURANCE CHAMPION Achieving ONE MILLION CYCLES while remaining fully operational thanks to our unique seat design that is not subject to the stress inducing axial flexion often seen in other valves of this type.
ULTIMATE FLEXIBILITY Usable in ON/OFF or THROTTLING/CONTROL APPLICATIONS with no need for a special design or modifications. You can use a XOMOX® HPBV right out of your stock in multiple different applications without concern.
BI-DIRECTIONAL GUARDIAN Suitable for BI-DIRECTIONAL DEAD-END SERVICE, even under full differential pressure – also available with a SMOOTH SEAT RETAINER RING.



CENTER LINE Butterfly Valves Series RS

TECHNICAL DETAILS

MATERIALS OF CONSTRUCTION Body: EN-JL1040 (EN-GJL-250), ASTM A48 Gr. 40 B, EN-JS1030 (EN-GJS-400-15), ASTM A536 Gr. 60-40-18, EN-JS1025 (EN-GJS-400-18-LT), ASTM A395, 1.0619 (GP240GH,) ASTM A216 Gr. WCB, 1.4408 (GX5CrNiMo19-11-2), ASTM A351 Gr. CF8M
Disc: 1.4408 (GX5CrNiMo19-11-2) ASTM A351 Gr. CF8M, EN-JS1030 (EN-GJS-400-15) ASTM A536 60-40-18 nickel plated, 1.4581 (GX5CrNiMoNb19-11-2) ASTM A351 Gr. CF8MC, Hastelloy C, Hastelloy C22, EN-JS1030 (EN-GJS-400-15), ASTM A536 60-40-18, PE-UHMW lined, 1.4469 (GX2CrNiMoNa25-7-3), ASTM A995 Gr. 5A Superduplex
Shaft: 1.4021 (X20Cr13) ASTM A276 Gr. 420, 1.4401 (X5CrNiMo17-12-2) ASTM A276 Gr. 316
Seat: EPDM, EPDM-H (KTW), EPDM (BfR / FDA), EPDM bright, EPDM bright (BfR / FDA), EPDM-H (KTW, aluminum free), NBR (DVGW), NBR (BfR / FDA), NBR bright, NBR bright (BfR / FDA), H-NBR, FPM, FPM 0677, FPM-FDA 0674
SIZE RANGE DN 40 up to DN 1400, 1 1/2" up to 56"
PRESSURE RATINGS Standard: PN10, PN16, ASME class 150, JIS, BS, API and other pressure classes on request
TEMPERATURE RANGE -30°C (-22°F) up to 200°C (392°F) depending on material selection

FEATURES AND BENEFITS

- Replaceable cartridge seat design with solid backup ring allows best fit for vacuum applications and minimum costs over lifetime
- Only 2 wetted parts, disc and seat, with no exposed metal-to-metal contact points, for maximum corrosion resistance
- Self-centering disc with smooth finish and spherical edge reduces wear and resists corrosion and abrasion



KROMBACH Triple Offset Butterfly Valves Series FKX9000

TECHNICAL DETAILS

MATERIALS OF CONSTRUCTION Standard: A216 Gr. WCB, A351 Gr. CF8M; 1.0619, 1.4408
Options upon request: Duplex, Superduplex, LCC/LCB, WC6, CF3M, Monel®, Inconel®, Hastelloy®, Alloy 20; 1.4469, 1.7357, 1.4409, 2.4460
SIZE RANGE 3" up to 64"; DN 80 up to DN 1600, in a single piece cast body design
PRESSURE RATINGS ASME Class 150, Class 300, Class 600, PN 10, 16, 25, 40, 63, 100
TEMPERATURE RANGE -76°F up to 1022°F; -60°C up to 550°C, depending on material selection

FEATURES AND BENEFITS

OPTIMIZED SEAT ANGLE An innovative seat angle design and Stellite® hard-faced valve body seat deliver a longer seal life and improved abrasion resistance, even after extensive cycling. Designed to eliminate wedging or binding of the disc, and lower the operating torque, the Crane®FKX9000 can REDUCE TOTAL COST OF OWNERSHIP BY UP TO 50%.* (**Proven against leading TOV supplier, in customer's Methyl Diisocyanates application)
METAL-TO-METAL SEALING The precision machined metal seat and seal ring deliver reliable and bi-directional shutoff in hightemperature, high-pressure and severe service applications, among others. The right-angle conical seat design facilitates an almost FRICTIONLESS IN-LINE SEALING.
INNOVATIVE SHAFT SEAL DESIGN permits superior FUGITIVE EMISSIONS CONTROL (ISO 15848, Class AH) under recurrent thermal cycling, and REDUCES POTENTIAL DOWN TIME.
TORQUE-SEATING Unlike position seated ball, butterfly or plug valves, the torque-seated Crane® FKX 9000 self-adjusts to evenly distribute seal compression. A "floating" seal ring and wide seal ring supporting gasket yield a BETTER SEAL to eliminate binding and to enhance performance.



LINED PIPES

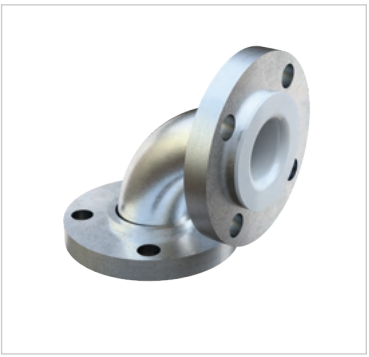
RESISTOFLEX Standard Pipes and Fittings

TECHNICAL DETAILS

MATERIALS OF CONSTRUCTION Carbon Steel, Cast Steel & Ductile Iron / Stainless Steel & High Alloys / Low temperature Carbon Steel
DESIGN PTFE/PFA Lined Pipes & Fittings, PVDF Lined Pipes & Fittings, PP Lined Pipes & Fittings
SIZE RANGE PTFE/PFA: 0.5" to 24" / PVDF: 1" to 8" / PP: 1" to 12"
PRESSURE RATINGS Class 150 & 300
TEMPERATURE RANGE PTFE/PFA: up to 450° F / 232° C / PVDF: up to 275° F / 135° C / PP: up to 225° F / 107° C

FEATURES AND BENEFITS

- ASTM F1545-15a compliant for PTFE, PVDF, and PP-lined systems, supporting ASME B31.3 applications.
- Patented Thermalok™ technology locks the liner and steel housing together to distribute stress during thermal cycling.
- Full-vacuum capability standard helps prevent liner collapse during planned or unintended vacuum conditions.
- Industry-leading liner thickness delivers dependable performance in aggressive chemical service across demanding temperatures and pressures.



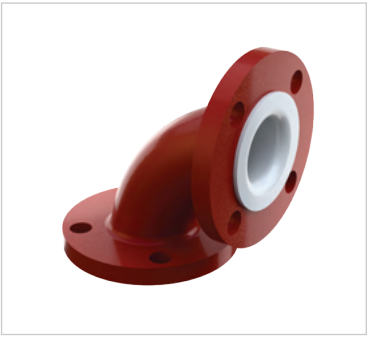
RESISTOFLEX Lined Pipes and Fittings Series ATL

TECHNICAL DETAILS

MATERIALS OF CONSTRUCTION Carbon Steel, Cast Steel & Ductile Iron / Stainless Steel & High Alloys / Low temperature Carbon Steel
SIZE RANGE 1" to 12"
PRESSURE RATINGS Class 150 & 300
TEMPERATURE RANGE up to 450° F / 232° C

FEATURES AND BENEFITS

- Optimized molded PTFE liner provides high strength and industry-leading permeation resistance.
- Advanced venting system helps prevent vent blockage and protects the housing from permeation-related corrosion.
- Double-coated protective paint system provides high chemical and temperature resistance, rated to 450° F (232° C).
- Suitable for use under insulation, extending protection in demanding chemical processing installations



HOSES

RESISTOFLEX Convoluted Polypropylene Braided Hose Series CPB CPB

TECHNICAL DETAILS

MATERIALS OF CONSTRUCTION Seamless helically formed convoluted Teflon™ PTFE tube reinforced with polypropylene braid and crimped fittings.
Lining materials: Convoluted PTFE (virgin or conductive)
SIZE RANGE 1/2 to 4" / DN 15 to DN 100
PRESSURE RATINGS 100 to 475 psig
TEMPERATURE RANGE add C / -20° F to 250° F

FEATURES AND BENEFITS

- Flexible, easy-to-handle design supports efficient routing and installation in pharmaceutical processing applications.
- Crush-resistant construction with a tight bend radius provides flexibility for demanding installations and confined spaces.
- Medium-pressure and full-vacuum capability delivers versatile performance across a range of process conditions.
- Abrasion-resistant, non-metallic braid enhances durability while helping reduce the risk of hand injury during handling.



RESISTOFLEX Twister Rubber Cover Hose Series CRC

TECHNICAL DETAILS

MATERIALS OF CONSTRUCTION
Unique design incorporating a seamless, helically formed convoluted Teflon™ PTFE tube reinforced with a stainless steel wire wrap and EPDM rubber cover.
Lining materials: Convoluted PTFE (virgin or conductive)
SIZE RANGE 3/4 to 2" / DN 20 to DN 50
PRESSURE RATINGS 275 to 570 psig
TEMPERATURE RANGE –29 °C to 121 °C / 0° F to 300° F

FEATURES AND BENEFITS

- Exceptional flexibility with a tight bend radius enables easy routing, maneuverability, and handling in demanding pharmaceutical and sanitary applications.
- Lightweight, crush-resistant construction simplifies handling while providing durability for day-to-day use.
- Medium-pressure and full-vacuum capability provides versatile performance across a range of process conditions.
- Rugged rubber cover with easy-cleanability provides added protection while supporting the cleanliness needs of demanding processing environments.



HYGIENIC BALL VALVES

SAUNDERS HC4 Hygienic Ball Valves

TECHNICAL DETAILS

MATERIALS OF CONSTRUCTION Seat: TFM / Stem Seal: TFM / PTFE / Body Seal: TFM / PTFE
SIZE RANGE DN15 – DN100 (0.50" – 4.00")
PRESSURE RATINGS Class 300
TEMPERATURE RANGE Min: -30° C (-22° F) Max: 200° C (392° F)
HOUSING DESIGN 3-Piece
END CONNECTION ETO TRI-CLAMP
OPERATION Hand lever or REVO® drive

FEATURES AND BENEFITS

- Plug & Play cartridge enables quick access to soft components
- Actuator can remain fully assembled during installation
- Slot out cartridge design eliminates skid design piping clashes



BIO BLOCK

SAUNDERS HC4 BIO BLOCK

TECHNICAL DETAILS

MATERIALS OF CONSTRUCTION Standard 316L ASTM A-479 DIN 1.4435, AL6XN, Hastelloy and other materials available on request
SIZE RANGE DN8 (0.25") – DN150 (6.00")

FEATURES AND BENEFITS

- Flexibility of design orientation and configuration
- Zero or minimum deadleg optimisation
- Minimum internal wetted area
- Simplified validation of single piece Bio Block
- ASME BPE compliant weld tangents



ASEPTIC BODIES

SAUNDERS HC4 2-Way Body

TECHNICAL DETAILS

ATERIALS OF CONSTRUCTION Stainless Steel dual certified to 316L (ASTM A-182) and DIN 1.4435 and compliant to ASME BPE / Controlled Sulphur (0.005-0.017% max). Ferrite <0.5% / Alternative materials available on request: Hastelloy, Titanium, 904L and AL6 XN

SIZE RANGE Pure Performance (Bio-Seal) Forged Body: DN8 (0.25") – DN15 (0.50") / Forged Stainless Steel 2-Way: DN15 (0.50") – DN100 (4.00") / Investment Cast Stainless Steel 2-Way Bodies: DN15 (0.50") – DN100 (4.00") / Machined Block 2-Way Valve Body: DN150 (6.00")

FEATURES AND BENEFITS

- Readily incorporated into valve cluster and access valve fabrications
- Materials and surface finish compatible with industry standards
- Full traceability to EN 10204 3.1 and ASME BPE



SAUNDERS HC4 Serial Weir Body

TECHNICAL DETAILS

MATERIALS OF CONSTRUCTION Standard 316L ASTM A-479 DIN 1.4435, AL6XN, Hastelloy and other materials available on request

SIZE RANGE DN8 (0.25") – DN100 (4.00")

FEATURES AND BENEFITS

- Machined Block construction, free from internal fabrication welds
- Zero or minimum deadleg depending on selected orientation
- Reduced internal wetted area to optimise CIP/SIP cycle time
- Highly compact size envelope



SAUNDERS HC4 Multi-Port Body

TECHNICAL DETAILS

MATERIALS OF CONSTRUCTION Standard 316L ASTM A-479 DIN 1.4435, AL6XN, Hastelloy and other materials available on request

SIZE RANGE DN8 (0.25") – DN80 (3.00"), DN150 (6.00")

FEATURES AND BENEFITS

- Machined Block construction, free from internal fabrication welds
- Minimum deadleg design
- Reduced internal wetted area and product contact surface
- Excellent drainage characteristics for effective sterilisation



DIAPHRAGMS

SAUNDERS HC4 EX Endurance Diaphragms

TECHNICAL DETAILS
MATERIALS OF CONSTRUCTION Modified PTFE wetted face with silicone backing cushion
SIZE RANGE DN8 – DN200 (0.25" – 8.00")
TEMPERATURE RANGE Maximum constant 175° C (347° F) / Maximum intermittent 175° C (347° F) / Minimum -20° C (-4° F)

FEATURES AND BENEFITS
- Outstanding high temperature performance and resistance to long term exposure at elevated temperatures
- Ideal for steam distribution and supply, sterile barrier, and block-and-bleed applications
- Improved seal-to-atmosphere performance and reduced requirements for re-torqueing of fasteners after thermo cycling



SAUNDERS HC4 SR Steam Resilience TFM Diaphragms

TECHNICAL DETAILS
MATERIALS OF CONSTRUCTION Modified PTFE resin (TFM) wetted contact face with EPDM support backing
SIZE RANGE DN8 – DN200 (0.25" – 8.00")
TEMPERATURE RANGE -20° C (-4° F) to 160° C (320° F)

FEATURES AND BENEFITS
- Significant reduction in creep and deformation under aggressive sterilisation regimes
- Increased resistance to permeation compared with standard PTFE
- Full batch traceability provides maximum security, reliability and repeatable performance



SAUNDERS IDV High Performance PTFE Diaphragms

TECHNICAL DETAILS
MATERIALS OF CONSTRUCTION Ethylene propylene diene (EPDM), Organic peroxide cured, Carbon black reinforced, Fabric reinforced to optimize flex
SIZE RANGE A Type: DN15 – DN250
TEMPERATURE RANGE -20°C to 150°C

FEATURES AND BENEFITS
- Unique stainless steel bayonet fitment reduces point loading, improves sealing performance and facilitates correct diaphragm installation
- Third generation two-piece construction increases pressure rating and enhances durability
- 100% virgin PTFE contact face is chemically inert, offering improved corrosion resistance



ASEPTIC BONNETS

SAUNDERS HC4 Stainless Steel Sealed Bonnets

TECHNICAL DETAILS
MATERIALS OF CONSTRUCTION Stainless Steel
SIZE RANGE DN15 (0.50") – DN80 (3.00")

FEATURES AND BENEFITS
- Fully sealed with a primary seal providing containment for critical applications
- Suitable for Steam-In-Place DN15 (0.50") – DN20 (0.75")
- Fully autoclavable up to 140° C (284° F)



SAUNDERS HC4 Pure Performance (Bioseal) Manual Bonnets

TECHNICAL DETAILS
MATERIALS OF CONSTRUCTION Poly Phenylene Sulfide
SIZE RANGE DN8 (0.25")

FEATURES AND BENEFITS
- FDA conforming PPS bonnet shell and hand wheel
- O-ring sealed
- Resistant to wash down chemicals
- Fully autoclavable to 140° C
- High visibility yellow indicator sleeve



VALVE AUTOMATION

SAUNDERS HC4 Sensors Series M-VUE

TECHNICAL DETAILS

MATERIALS OF CONSTRUCTION Mounting Base: Glass Reinforced Polybutylene Terephthalate (PBT) / Electronics Module: Polycarbonate (PC) / Target: Composite Ferrous Magnet / Seals: Buna N (Nitrile)
SIZE RANGE DN8 (0.25") – DN50 (2.00")
SENSITIVITY Less than 0.3mm (0.012")
STANDARD CONNECTION P2P: M12 5 pin

FEATURES AND BENEFITS

- Via solid state hall effect sensors, providing accuracy of 0.3 millimeters. Continuous sensing technology eliminates false alarms by detecting the exact status of the valve
- Self Calibration by setting the open and closed position of the valve. Using this feature, a valve position can be calibrated by one person in three minutes, either at the valve (using magnetic key) or remotely via industrial network (without the need to open the switch enclosure)
- Lower Maintenance Costs by applying factory or user defined device settings to monitor valve cycle count and end point tolerance limits, preventing false alarms and unnecessary diaphragm replacement



SAUNDERS HC4 Sensors Series I-VUE

TECHNICAL DETAILS

MATERIALS OF CONSTRUCTION Module Housing: Polycarbonate / Connection Box: Polycarbonate / Target: Composite Ferrous Magnet / Seals: Buna N (Nitrile)
SIZE RANGE DN8 (0.25") – DN100 (4.00")
TEMPERATURE RANGE 0° C to + 70° C
SENSITIVITY Less than 0.2mm (0.008")
STANDARD CONNECTION P2P with SOV:M12 5 pin / P2P without SOV:M12 4 pin / AS-i:M12 4 pin / DeviceNet: Mini 5 pin

FEATURES AND BENEFITS

- Enhance Reliability and Accuracy with solid state continuous sensing technology that provides precise position readings for the entire valve range from 0.25" to 4.00" (DN8 to DN100)
- Simplify Installation by utilizing automated valve calibration without opening the IP67 rated polycarbonate sensor enclosure, reducing set up times to 3 minutes or less
- Lower Maintenance Costs by applying factory or user defined device settings to monitor valve cycle count and end point tolerance limits, preventing false alarms and unnecessary diaphragm replacement



VALVE AUTOMATION

XOMOX Pneumatic Actuators Series XRP and XRP upgrade

TECHNICAL DETAILS

MATERIALS OF CONSTRUCTION **Body:** Aluminium anodized, calibrated / **End Caps:** plastic end caps RAL 9005 (black) / **Shaft:** Silver Anodized
Fasteners: Stainless steel / **Bearings:** POM
SIZE RANGE 012, 025, 050, 090, 30, 180 / **Double Acting:** 327.47 in-lbs to 11948.50 in-lbs (37 Nm to 1350 Nm)
Spring Return: 73.46 in-lbs to 10966.07 in-lbs (8.3 Nm to 1239 Nm)
PRESSURE RATINGS **Double Acting:** 30 to 120 PSIG (2.0 to 10 bar) / **Spring Return:** 65 to 120 PSIG (4.5 to 10 bar), with maximum spring set
Spring Return: 40 to 120 PSIG (2.5 to 10 bar), with reduced spring quantity
TEMPERATURE RANGE Standard Temperature: -4° F to 176° -F (-20° C to +80° C)

FEATURES AND BENEFITS

- Regulatory compliance to EN15714-3
- Ensuring hazardous area safety with ATEX IIC
- Simplified maintenance
- Expanded static supply pressure range upto 10 bar*
- Tailored performance with Versatile application requirements



SAUNDERS HC4 Pneumatic Actuators Series P345

TECHNICAL DETAILS

MATERIALS OF CONSTRUCTION **Actuator Housing:** Polyamide / **Bonnet:** Stainless Steel
SIZE RANGE DN8 (0.25") – DN50 (2.00")
CLOSURE PERFORMANCE Elastomer Diaphragm – 10 bar (145 PSI) / PTFE Diaphragm – 8 bar (116 PSI)
TEMPERATURE RANGE Max: 100° C (212° F) / Min: -10° C (14° F)
MODES OF OPERATION Spring-to-Close

FEATURES AND BENEFITS

- 4.5 bar operating pressure
- Reduced TCO through reduction in air consumption
- Industry leading closure performance
- Lightweight construction



SAUNDERS HC4 Actuators Series S360

TECHNICAL DETAILS

MATERIALS OF CONSTRUCTION Stainless Steel 316 polished construction
SIZE RANGE DN8 (0.25") – DN100 (4.00")
TEMPERATURE RANGE -10° C (14° F) to 100° C (212° F) Operating
MODES OF OPERATION Spring-to-Close / Spring-to-Open / Double Acting

FEATURES AND BENEFITS

- Modular range delivers compact dimensional envelope
- Maintenance free piston technology provides powerful closure performance
- Smooth corrosion resistant profile optimises cleanability



VALVE AUTOMATION

WESTLOCK CONTROLS Quantum Series

TECHNICAL DETAILS

MATERIALS OF CONSTRUCTION Enclosures: Stainless steel, aluminum, engineered resin
Temperature Rating: -40C to +85C (multiple options available)
Solenoid Coil Voltage: 24 VDC, 120 VAC
Solenoid Materials: 316 SS, Aluminum
HAZARDOUS AREA APPROVALS Intrinsically Safe, Non-Incendive
SWITCHES Mechanical SPDT, Inductive Sensors, SPDT Magnum Proximity

FEATURES AND BENEFITS

- Pre-Wired Falcon Solenoid enables Rapid Commissioning
- High-Visibility Spool Indicator provides Instant Diagnostics
- Unified Hazardous Area Certifcation provide Simplified Compliance and Inventory Management



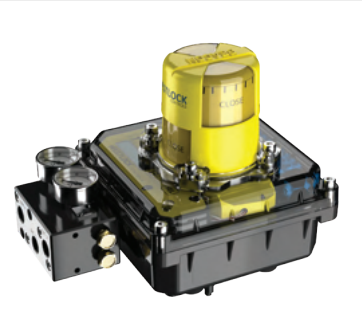
WESTLOCK CONTROLS K20 Smart Positioner

TECHNICAL DETAILS

MATERIALS OF CONSTRUCTION (ENCLOSURES) Engineered Resin, 316 CF8M Stainless Steel, Aluminum
HAZARDOUS AREA APPROVALS Non-Incendive, Intrinsically Safe
INPUT/OUTPUT SIGNAL Analog (4-20mA), HART® 7
TEMPERATURE -40C to 85C

FEATURES AND BENEFITS

- Fully potted electronics, non-contact position sensing, and a frictionless spool manifold validated through 2 billion cycles support long-term reliability
- Integrated 4–20 mA position feedback and optional end-of-travel sensing provide precise, continuous valve monitoring
- Auto-calibration, an intuitive interface, and built-in quick-start guidance simplify commissioning and field adjustments
- Reduced Inventory management by offering a single SKU with Dual HAZ approvals (NI and IS) and use with single or double-acting actuators



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From API synthesis to purification and final formulation, Crane ChemPharma & Energy combines proven technologies, trusted brands and application expertise to support critical pharmaceutical processes.

WHY PHARMA CUSTOMERS CHOOSE CRANE

PROVEN PHARMA SOLUTIONS
Products and technologies designed for demanding pharmaceutical processing environments and supported by a proven installed base.

BROAD TECHNOLOGY PORTFOLIO
Lined valves and piping, hygienic diaphragm valves, automation, sensors and valve monitoring from established Crane brands.

DESIGNED FOR CRITICAL PROCESSES
Solutions addressing corrosion, contamination risk, fugitive emissions, product hold-up, cleaning, thermal cycling and hazardous-area requirements.

GLOBAL REACH. LOCAL SUPPORT.
A worldwide network of manufacturing and service locations supports customers on a local level.

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