FABRICACIONES MILITARES SOCIEDAD DEL ESTADO		**ORDEN DE COMPRA**	
Oficina	**COMPRAS - FABRICA MILITAR RIO TERCERO**	Nº	**OC-2021-RT-097**
Dirección	**Av. Cabildo 65 3º Piso CABA**	FECHA	**16/7/2021**
Teléfono	**4779-3128/3121/3122**	Modalidad	Sin Modalidad
CUIT	**30-54669396-8**		

Expediente Nº	EX-2021-38981129- -APN-FMSE#MD					**Requerimiento de Compras Nº**	REC-2021-RT-020		
Procedimiento	**Tipo**	LICITACIÓN PRIVADA						**Nº**	LPR-2021-RT-010
Acto Administrativo de Adjudicación	**Tipo**	Resolución	**Nº**	241	**Fecha**	15/7/2021		**Autoridad**	PRESIDENTE

PERSONA FISICA O JURIDICA ADJUDICADA							
Denominación	RICH KLINGER S.A.					**CUIT**	30-52312858-9
Domicilio	José Hernandez y Santiago del Estero Ruta (9) Panamericana Km 41						
Localidad	GARIN	**Provincia**	BUENOS AIRES	**País**	ARGENTINA		
Teléfono	0348 4471503 / 4458444 / *"Claudio Pacheco" <c.pacheco@rklinger.com.ar>*						

BIENES Y/O SERVICIOS ADJUDICADOS

Renglón N°	Descripción	Cantidad	Unidad de Medida	Precio Unitario sin Impuestos	IVA Alicuota	IVA Monto	Precio Total
1	Válvula tipo Mariposa Doble Excéntrica bidireccional de Asiento Suave Double Dead End – Diseño Según norma ASME B16.34, conexión estilo LUG y distancia entre caras según norma API 609 - Soporte montaje actuador Según norma ISO 5211 - Accionamiento manual mediante mecanismo reductor a sinfín y corona, con volante. Material de Cuerpo: ASTM A351 CF8M Material de Disco: SS316 Material de Vástago: 17-4PH Material de Asiento: RTFE Código de Producto: 20-1DC-22DRTG-30J Diámetro 20".	1	C/U	USD 17.887,00	21,00%	USD 3.756,27	USD 21.643,27
Total						USD 3.756,27	USD 21.643,27

SON DOLARES: VEINTIUN MIL SEISCIENTOS CUARENTA Y TRES CON VEINTISIETE CENTAVOS.

Forma de Pago	50% anticipado, previa presentación de contragarantía. 50% 30 días corridos fecha Factura y de recibida de conformidad la provisión.
Plazo de Entrega	26/28 semanas de notificada la Orden de Compra.
Lugar de entrega	Sobre transporte en Buenos Aires, con flete y seguro a cargo de F.M.R.T.

FLOWSEAL®

brands you trust.

High Performance Butterfly Valves

CRANE®

Crane ChemPharma & Energy

DOCFI-2021-64125103-APN-FMSE#MD

www.cranecpe.com

Key Features & Applications

Flowseal is a leading provider of soft seat, and fire-safe high performance butterfly valves. Our products are manufactured under an ISO 9001 Quality Assurance Program that assures each valve we produce meets or exceeds your application requirements.

Additionally, our Design and Manufacturing facility is certified to the Pressure Equipment Directive (PED), and Flowseal valves can be ordered as CE marked.

Flowseal high performance butterfly valves are a standard in many industries including heating, ventilating and air conditioning, power generation, hydrocarbon processing, water and waste water treatment, and marine and commercial shipbuilding. Our products are also installed in applications as diverse as food and beverage processing, snowmaking and pulp and paper production. Configurations are available for harsh conditions as well as applications requiring nominal pressure and temperature ratings.

As part of Crane Valve Group, Flowseal high performance butterfly valves are backed by the resources and experience of one of the world's largest valve producers with a delivery and quality track record that is unparalleled in the industries we serve.

Key Features & Benefits

❶ High performance shutoff and modulating service for standard industrial process lines

❷ Materials of construction options include Carbon and Stainless Steels

❸ Sizes up to 48", both wafer and lugged body styles available, classes 150 – 600

Typical Applications

- Hydrocarbon Processing
- Chemical/Petrochemical Processing
- Marine and Commercial Shipbuilding
- Power and Utilities
- Pulp and Paper

NOTE: In keeping with our policy of continuing improvement, we reserve the right to institute changes in design, material, dimensions, or specifications without notice and without incurring any obligation to make such changes and modifications on product previously or subsequently sold.

* For valves supplied with a chainwheel, the positive restraint option is recommended.

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Unique Valve Seat Design Soft Seat

Flowseal is one of the world's leading manufacturers of high performance butterfly valves. Based on many years of research, development, and field experience, the Flowseal design is superior to, and more versatile than, the High Performance Butterfly Valve design offered by other manufacturers.

The Flowseal soft seat valve provides a bi-directional bubble tight shutoff (zero leakage) by the use of a patented seat. This unique seat design creates a self-energized seal in vacuum-to-low pressure applications.

Under higher pressure conditions, the seat is also designed to permit, confine, and direct movement of the soft seat against the disc edge, up to the full ASME Class 150, 300 and 600 Cold Working Pressures.

The soft seat is designed for high services with minimal wear and low torque. Seat replacement is a simple operation, requiring no special tools.

DOCFI-2021-64125103-APN-FMSE#MD

Principle of Seat Sealing Soft Seat

DISC OPEN

In Figure 1, the disc and seat are not engaged. In this position, the shoulders of the seat are forced against the cavity shoulders by the compression of the o-ring.

The seat is recessed inside the seat cavity and acts as a gasket in the anchoring groove area. The seat cavity is sealed from exposure from the process fluid and protects the seat from abrasion and wear. The o-ring, which is completely encapsulated by the seat, is also isolated from exposure to the process fluid.

Figure 1

DISC CLOSED, Self-Energized Seal

In Figure 2, the Flowseal disc and seat are engaged, and the process fluid is under low pressure. The edge of the disc, with a larger diameter than the seat tongue, directs movement of the seat radially outward, causing the seat to compress against the convergent sidewalls of the cavity. The elastomeric o-ring imparts a mechanical pre-load between the disc and seat tongue as it is compressed and flattened by the disc; this is the self-energized mode for sealing at vacuum-to-60 psig.

As the seat moves radially outward, the seat shoulders move away from the cavity shoulders and open the cavity to the process media.

Figure 2

DISC CLOSED, Pressure-Energized Seal (Seat Upstream)

As line pressure increases, the process fluid enters the sidewall area and applies a load against the parallel-spaced sidewall and convergent sidewall of the seat. The seat and cavity design permits the seat to move axially to the downstream sidewall, but confines the movement and directs the movement radially inward towards the disc; the higher the line pressure, the tighter the seal between the disc and seat. Because the o-ring is elastic, it is able to flex and deform under loads and return to original shape after removal of the load; it is the rubber which deforms, not the thermoplastic material.

This dynamic seal, patented by Flowseal, is totally unique among high performance butterfly valves.

Figure 3

DISC CLOSED, Pressure-Energized Seal (Seat Downstream)

The Flowseal valve is bi-directional (in some instances, modifications may be required to operate this arrangement for dead end service). The cavity and seat sidewalls are symmetrically designed to permit, confine, and direct movement of the seat to the disc to dynamically seal with line pressure in the reverse direction. The disc edge is the segment of a sphere, and the seat is angled towards the disc edge to seal with pipeline pressure in either direction.

Recommended installation direction is “SUS” (seat upstream), as in Figure 3.

Figure 4

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Valve Components Soft Seat

KEY
Square key valve-to-operator connection provides an externally controlled failure point upon over-torquing.

GLAND FLANGE
Applies load against packing gland to prevent external leakage. Fully adjustable.

PACKING
Chevron design TFE prevents external leakage out valve neck to full ASME hydrostatic shell test pressures (150% of C.W.P.).

WEDGE RING
Stainless steel band wedged between valve body and retainer ring by set screws to lock seat and retainer ring in position on valve sizes 2" through 30". Socket head cap screws are used on valve sizes 36" and larger.

SET SCREWS
Cone point screws force wedge ring outward to lock seat retainer in position on valve sizes 2" through 30" wafer. Socket head cap screws are used on valve sizes 36" and larger and all DDES lug valves.

OVERTRAVEL STOP
Prevents disc from rotating into the wrong quadrant.

SOFT-SEAT
Patented bi-directional seat with encapsulated elastomeric o-ring core for resiliency. Common seat materials include TFE, RTFE and UHMWPE.

BLOW OUT PROOF SHAFT
Solid shaft provides alignment and rigid support for disc.

PACKING GLAND
Separate part from gland flange, preventing uneven load distribution against packing.

BEARINGS
Both above and below the disc, bearings are of composite design: PTFE bonded to epoxy-glass filament wound ring. Used to align shaft, with high capacity, low wear, and low friction coefficient.

DISC SPACERS
Disc is centered by use of thrust spacers around shaft in sizes 2" to 5". Disc position stops or thrust bolt arrangements are used for larger valve sizes.

WEDGE PINS
Provide positive mechanical attachment of disc to shaft.

BODY
ASME B16.34 design in either wafer or lug configuration.

DISC
360° uninterrupted spherical edge for sealing. Profile is designed for maximum flow and equal percentage control.

RETAINER RING
Retains seat in valve. Standard surface finish is 125 to 200 AARH and is compatible with both standard gaskets and spiral wound gasket designs. Outside diameter is recessed within gasket sealing surface to prevent external leakage.

End Seal Variation

The ASME 150 14" through 30" sizes feature a two-piece shaft design. The lower shaft utilizes an end seal in the body to prevent external leakage.
The component parts include an end seal, an end cap and end cap bolts.

Lower Packing Variation

The ASME 150 14" through 48"; ASME 300 14" through 30"; ASME 600 10" through 16" sizes feature a two-piece shaft design which utilizes a lower packing seal in the valve body to prevent external leakage.
The component parts are of the same design used in the packing assembly in the top of the valve body neck.

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Unique Valve Seat Design Fire Flow

The Flowseal Fire-Flow™ high performance butterfly valve (HPBV) is a fire-safe, soft seat quarter-turn valve. The Fire-Flow™ design incorporates two patented seats which function together to seal off pipeline flow. In normal operation, the soft seat provides a bi-directional "bubble tight" shutoff (zero leakage); the metal seat provides bi-directional shutoff in the event of a fire, in conformance to industry fire-safe requirements.

With little or no pressure, the Fire-Flow seat creates a self-energized seal against the disc. Higher line pressures act on the geometry of both seats to dynamically load them against the disc, creating higher sealing forces in either direction.

The Fire-Flow™ metal seat is made of Inconel® material which is shaped by a proprietary hydroforming process into its unique, patented design. Stainless steel outer bearings are included for post-fire disc and shaft alignment. Fireproof packing is used to prevent external shaft leakage.

DOCFI-2021-64125103-APN-FMSE#MD

Principle of Seat Sealing Fire Flow

DISC OPEN, Normal Operation

In Figure 1, the disc and seat assembly are not engaged. In this position, the metal seat acts to keep the soft seat inside the seat cavity while the soft seat shoulders seal the cavity from exposure to the process fluid. (The o-ring is under tension and imparts a load against the soft seat.)

The soft seat is protected from abrasion and wear because it is recessed inside the seat cavity area. The o-ring is isolated from exposure to the fluid because it is completely encapsulated by the seat tails which act as a (soft) gasket in the anchoring groove area. The metal seat gaskets add further high temperature protection past the anchoring grooves.

Figure 1

DISC CLOSED, Normal Operation

In Figure 2, the disc and seat assembly are engaged; both the metal seat and the soft seat are in contact with the disc. Under little to no pressure conditions, both seats are self-energized. The disc edge, with a larger diameter than the seat tongues, moves the seats radially outward; the metal seat shape, with a mechanical and dynamic flexibility, is designed to be hoop-loaded and impart a spring force against the disc, while the soft seat o-ring is stretched and flattened (without deformation of the material) and imparts a mechanical pre-load against the disc.

With increased line pressure, the process fluid enters the cavity sidewall area and applies loads against the seat sidewalls. The cavity design allows the seats to move toward the downstream sidewalls, but confines and directs the movement radially inward towards the disc; the higher the pressure the tighter the seal. The symmetrical shape and angle of the cavity permit the seal to be bi-directional.

Figure 2

DISC CLOSED, After Fire (Seat Upstream)

After a fire, with partial or complete destruction of the soft seat, the metal seat maintains metal-to-metal contact with the disc and restricts leakage of the process fluid in conformance to industry fire-safe requirements.

With little or no line pressure, the spring force and hoop load of the metal seat maintain a “line contact” seal against the disc edge. Under higher pressures, the process fluid enters the cavity sidewall areas and applies loads against the seat sidewalls (Figure 3). The geometry of the metal seat permits the seat to move axially, but directs the movement radially inward toward the disc. The higher the pressure, the tighter the line contact seal.

Graphite gaskets, on both sides of the metal seat tail, seal the anchoring groove and prevent leakage of the process fluid.

Figure 3

DISC CLOSED, After Fire (Seat Downstream)

The Flowseal Fire-Flow™ valve is bi-directional; however, modifications are required to operate for bi-directional dead end service. The angle and shape of the cavity and metal seat maintains metal-to-metal contact in the event of partial or complete soft seat destruction with line pressure in the reverse direction (Figure 4).

While the preferred flow direction is “seat upstream” (SUS), the bi-directional seat design is both self-energized and pressure-energized if the flow direction is “seat downstream” (SDS).

Figure 4

DOCFI-2021-64125103-APN-FMSE#MD

Valve Components Fire Flow

KEY
Square key valve-to-operator connection provides an externally controlled failure point upon over-torquing.

GLAND FLANGE
Applies load against packing gland to prevent external leakage. Fully adjustable.

PACKING
Common material is graphite.

DISC SPACERS
Disc is centered by use of thrust spacers around shaft in sizes 2" to 5". Disc position stops or thrust bolt arrangements are used for larger valve sizes.

RETAINER RING
Retains seat in valve. Standard surface finish is 125 to 200 AARH and is compatible with both standard gaskets and spiral wound gasket designs. Outside diameter is recessed within gasket sealing surface to prevent external leakage.

OVERTRAVEL STOP
Prevents disc from rotating into wrong quadrant.

SET SCREWS
Cone point screws force wedge ring outward to lock seat retainer in position on valve sizes 2" through 30" wafer. Socket head cap screws are used on valve sizes 36" and larger and all DDES lug valves.

WEDGE RING
Stainless steel band wedged between valve body and retainer ring by set screws to lock seat and retainer ring in position on valve sizes 2" through 30". Socket head cap screws are used on valve sizes 36" and larger.

SHAFT
Solid shaft provides alignment and rigid support for disc.

PACKING GLAND
Separate part from gland flange, preventing uneven load distribution against packing.

OUTER BEARINGS
Stainless steel back-up bearings maintain shaft alignment after a fire. (Both above and below disc.)

INNER BEARINGS
Both above and below the disc, bearings are of composite design: TFE bonded to epoxy-glass filament wound ring. Used to align shaft, with high load capacity, low wear and low friction coefficient.

WEDGE PINS
Provide positive mechanical attachment of disc to shaft.

BODY
ASME B16.34 design in either wafer or lug configuration.

DISC
Fire-Flow disc is electroless nickel plated for enhanced temperature and abrasion resistance.

FIRE–FLOW SEAT
Patented bi-directional soft seat design for zero-leakage in normal operation and a metal-to-metal seal after fire, meeting or exceeding industry "fire-safe" specifications.

End Seal Variation

The ASME 150 14" through 24" sizes feature a two-piece shaft design. The lower shaft utilizes an end seal in the body to prevent external leakage. The component parts include an end seal, an end cap and end cap bolts.

Lower Packing Variation

The ASME 150 30" through 48"; ASME 300 14" through 30"; ASME 600 10" through 16" sizes feature a two-piece shaft design which utilizes a lower packing seal in the valve body to prevent external leakage. The component parts are of the same design used in the packing assembly in the top of the valve body neck.

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Actuators

ELECTRIC–ON-OFF

Standard Features:
Torque Range– 347 lb ins to 17,359 lb ins
Housing – NEMA4 & 4X
Electric Motor –120VAC, 1 PHASE, 60Hz
Thermal Overload – Auto re-set
Limit Switches– Adjustable cam operated
Position Indicator – Mechanical Dial Type
Space Heater – Located in the control compartment
Terminal Strip – Pre-wired for motor & limit switches
Manual Override – Directing acting
Brake – "Lock-cut" gear arrangement
Adjustable Mechanical Travel Stops
Temperature Range – -13°F to 131°F (-25°C to 55°C)
Mounting – Direct mount to Center Line valves
Certification/Approvals – CSA-NRTL/C

Optional Features:
AC Voltages – 220VAC, 1 PHASE, 60 Hz
AC Voltages – 24 VAC 44005-44400
DC Voltages – 12/24 VDC 4005-44300
Additional Limit Switches – 2 SPDT
Torque Switches – Adjustable open and close
Feedback Potentiometer – 500 ohm
Feedback Transmitter – 4-20 mA
De-clutchable Handwheel Override

ELECTRIC–MODULATING

Standard Features:
Process Control Signal – 4-20 mA, 0-10 V DC
Torque Range – 347 lb ins to 17,359 lb ins
Housing – NEMA4 & 4X
Electric Motor –120VAC, 1 PHASE, 60 Hz
Thermal Overload – Auto re-set
Resolution – 400 increments through 90 degrees
Position Indicator – Mechanical Dial Type
Space Heater – Located in the control compartment
Terminal Strip – Pre-wired for motor & limit switches
Manual Override – Directing acting
Brake – "Lock-cut" gear arrangement
Adjustable Mechanical Travel Stops
Temperature Range – -13°F to 131°F (-25°C to 55°C)
Mounting – Direct mount to Center Line valves
Certification/Approvals – CSA-NRTL/C

Optional Features
AC Voltages – 220VAC, 1 PHASE, 60 Hz
AC Voltages – 24 VAC 44010M - 44200M
Torque Switches – Adjustable open and close
De-clutchable Handwheel Override

PNEUMATIC–DOUBLE ACTING

Standard Features:
Torque Range – 80 lb ins to 60,623 lb ins
Housing – Castalloy aluminum, polyurethane coated
Mounting – ISO5211
Top and Solenoid Mounting Pad – NAMUR
Position Indicator – Mechanical "Cap" Type
Operating Pressure – 20 to 120 PSIG
Temperature Range – 4°F to 175°F (-15°C to 79°C)
Size Range – 12 models to choose from
Adjustable Travel Stops – Both directions
Mounting – Direct mount to Center Line valves

Optional Features:
Temperature Range – 4°F to 250°F, -40°F to 175°F
(-15°C to 121°C, -40°C to 79°C)
Solenoid Valves – 3 or 4 way
Limit Switches – Adjustable cam operated
Positioners – Pneumatic or Electro-pneumatic
DC-1 Dribble Control – Two-stage shutoff
180° Actuation – 2 or 3 position
Manual Override – De-clutchable gear type
Speed Controls – Adjust cycle time
Special Applications – Offshore, nuclear, hygienic,
and gas or oil operation

PNEUMATIC–SPRING RETURN

Standard Features:
Torque Range – 80 lb ins to 41,341 lb ins
Housing – Castalloy aluminum, polyurethane coated
Mounting – ISO5211
Top and Solenoid Mounting Pad – NAMUR
Position Indicator – Mechanical "Cap" Type
Operating Pressure – 20 to 120 PSIG
Temperature Range – 4°F to 175°F (-15°C to 79°C)
Size Range – 12 models to choose from
Adjustable Travel Stops – Both directions
Mounting – Direct mount to Center Line valves

Optional Features
Temperature Range – 4°F to 250°F, -40°F to 175°F
(-15°C to 121°C, -40°C to 79°C)
Solenoid Valves – 3 or 4 way
Limit Switches – Adjustable cam operated
Positioners – Pneumatic or Electro-pneumatic
DC-1 Dribble Control – Two-stage shutoff
180° Actuation – 2 or 3 position
Manual Override – De-clutchable gear type
Speed Controls – Adjust cycle time
Special Applications – Offshore, nuclear, hygienic,
and gas or oil operation

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Ordering Information

Effective October 1, 2020

VALVE SIZE				VALVE TYPE				MATERIALS OF CONSTRUCTION							FEATURES		
1	1	1	—	2	3	4	—	5	6	7	8	9	10	—	11	12	13*

Example: 12 - 1WA - 171MTG - 3OJ:
12" Wafer Style Class 150 Carbon body, Straight 17-4 Ph SS Stem, 316 SS Nitrided Disc, Inconel® Seat, TFE Pkg, Garfil Bearings, Gear Operated

1. Size	Code
2"	02
2 ½"	025
3"	03
4"	04
to	
48"	48

2. Body Class	Code
150 PSI Max. Diff. Pressure	0
ASME 150	1
ASME 300	3
ASME 600	6

3. Body Type	Code
Wafer	W
Lugged	L
Lugged DDES [2]	D

4. Shaft Design	Code
Straight	A
ASME 150 2" - 12"	
ASME 150 36" - 48"	
ASME 300 2" - 12" & 30"	
ASME 600 2" - 8"	
Balanced	C
Class 150 14" - 30"	
De-rated 150** 36" - 48"	
ASME 300 14" - 24"	
ASME 600 10" - 16"	

** 150 psig maximum

5. Body Material	Code
Carbon Steel	1
316 SS	2
Alum Bronze	5
Aluminum Bronze B148 ASTM C958	8

6. Disc Material	Code
316 SS	2
Monel®	3
Alum Bronze B148 ASTM C958	8
316 SS/ENP	9
Monel®/ENP	M

7. Shaft Material	Code
17-4PH DHT SS	D
316 SS [1]	2
Monel®	3

8. Seat Material / O-Ring	Code
TFE / Viton® [4]	T
RTFE / Silicone [5]	R
RTFE / Viton® [4]	P
Polyethylene (UHMWPE) / Viton® [4]	L
Fire-Flow (TFE & Inconel®) / Viton® [4]	F
Fire-Flow (RTFE & Inconel®)/ Viton® [4]	A
Fire-Flow (RTFE & Inconel®) / Silicone	B

9. Packing Material	Code
TFE	T
Graphite	G
Fire-Flow	F
Live-Load Packing/TFE	A
Live-Load Packing/Graphite	B
Live-Load Packing/Fire-Flow	C
EF Seal (Viton® O-Rings)/TFE (Low Emissions)	D

10. Bearing Material	Code
Glass Backed TFE	G
316 SS Backed TFE	H
Fire-Flow (Garfil & 316 SS)	F
Stainless Steel Nitrided	S
Bronze	B
Monel®	K

11. Actuator Type	Code
Bare Shaft	B
Worm Gear w/2" Square Nut & Handwheel	D
Ratchet Handle	H
Throttle	T
Worm Gear	3
Worm Gear (4-way keyed)	9
Pneumatic Double Acting	4
Pneumatic SR Fail Close	5
Pneumatic SR Fail Open	6
Hydraulic	7
Electric	8

12. Special Feature	Code
None	O
Oxygen Service	A
Chlorine Service	C
CE Marked Non-Impact Tested [3]	PN
CE Marked Impact tested [3]	PI
CE Marked NON-Impact Tested w/ Vacuum Service [3]	VN
CE Marked Impact Tested w/ Vacuum Service [3]	VI
Silicone Free	G
Epoxy Coated Body	H
Chainwheel	J
Stem Extension	K
Lockable Gear	L
NACE Construction [5]	N
NACE Construction w/CE Marked NON-Impact Tested [3,5]	NN
NACE Construction w/CE Marked Impact Tested [3,5]	NI
Buried Service	R
Drill Through Lugs	T
Drill Through Lugs and NACE Construction	TN
Vacuum Service	V

Only select ONE special feature code per part number.

13. Series	Code
*Factory Assigned	J
*Factory Assigned (This pertains to 3", 4", 6", 8", 10", & 12" Class 150 Soft Seat Valves	K

FLOWSEAL ACTUATOR OPTIONS:

Lever:
- Not recommended for Metal Seat
- High Performance Butterfly Valve

Worm Gear Operators: **Five types available:**
- Buried service
- Submersible service
- Marine service
- Standard aluminum handwheel

Optional:
- Chain wheel
- Output shaft extension
- Input shaft extension
- Military special operator

Hydraulic Actuator:
- Customer specified hydraulic actuator

Pneumatic Actuators:
- Crane Air spring return pneumatic actuator
- Crane Air double acting pneumatic actuator
- Customer specified pneumatic actuator

Electric Actuators:
- Series 44000 electric actuator
- Customer specified electric actuator

Note[1] Shaft materials other than 17-4 PH or Monel® will affect working pressure ratings. Please consult factory.
Note[2] DDES = Double Dead End Service.
Note[3] For CE marked valves, see Body Rating chart in the Flowseal technical datasheet, as temp ranges can vary per material.
Note[4] Viton® O-Ring is recommended for use in Hydrocarbon and NACE service.
Note[5] RTFE/Silicone combination is not to be used with "NACE" valves.

IMPORTANT: CRANE Co. and its subsidiaries are not responsible for the accuracy, compliance, and legality of material contained in this price list offered in print, on the company websites, or via any external links, or third party sites. Please contact your local CRANE Energy

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Notes

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Crane ChemPharma & Energy

India Manufacturing Plant
Crane Process Flow
Technologies India Pvt Ltd
E7 / E8- 2, Old MIDC
Satara- PIN Code 415 004, India
Tel.: +91 21 62243000

CRANE Energy Global Headquarters
4526 Research Forest Drive, Suite 400
The Woodlands, Texas 77381 U.S.A.
Tel.: (1) 936-271-6500
Fax.: (1) 936-271-6510

www.cranecpe.com

India Head Office
Crane Process Flow
Technologies India Pvt Ltd
Solitaire, 5th & 6th Floor
S. No. 131 / 1+2, ITI Road
Aundh, Pune - 411007
Tel.: +91 20 71207120

Sydney, Australia, Operations
146–154 Dunheved Circuit
St. Mary's, N.S.W. 2760 Australia
Tel.: + 61 (2) 9623-0234
Fax.: + 61 (2) 9673-3870

Düsseldorf, GmbH, Operations
Crane Process Flow Technology, GmbH
Heerdter Lohweg 63-71, D-40549
Düsseldorf, Germany
Tel.: +49 211-59-56-0
Fax.: +49 211-59-56-111

Flowseal Customer Service
9860 Johnson Road
Montgomery, Texas 77316
Tel.: +1 936-588-8380
Fax.: +1 936-588-8381

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CPE-FLOWSEAL-HPBV-BU-EN-LT-2020_11_16

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a) Área Solicitante: PRODUCCION QUIMICA (REC-2021-RT-020).

b) **A los efectos de dar cumplimiento a la forma de pago establecida, deberá enviar a la brevedad posible una CONTRA GARANTIA, por un monto equivalente al anticipo solicitado [DOLARES: DIEZ MIL OCHOCIENTOS VEINTIUNO CON SESENTA Y CUATRO CENTAVOS (US$ 10.821,64)].**

c) Los materiales deberán ser entregados con un REMITO, donde se indique número de Orden de Compra. Sin este documento no se podrá dar el respectivo ingreso contable, y por consiguiente tampoco será factible la emisión del Certificado de Recepción y liquidación de la Factura.

d) Los elementos a proveer deben ser nuevos y sin uso. Asimismo, deben ser suministrados debida y perfectamente identificados; como así también en su embalaje normal de comercialización y/o adecuadamente acondicionados al efecto de su protección contra golpes y/o agentes externos que pudieren deteriorarlo; disminuir su vida útil o incluso inutilizarlos. Además, deberán estar perfectamente identificados cada embalaje con la designación, el número de Orden de Compra y el nombre del Proveedor de manera clara.

e) GARANTÍA:

El adjudicatario garantizará los elementos por defectos de fabricación o vicios ocultos, por un lapso mínimo de seis (6) meses contados a partir de la fecha de entrega conforme.

Si durante el período de garantía se produjesen inconvenientes debidos a deficiencias comprobables y atribuibles a los productos provistos objeto de la presente contratación, el adjudicatario se compromete a subsanarlo dentro del menor lapso y sin cargo adicional alguno para F.M.R.T.

Durante el lapso que dure la reposición que eventualmente haya que efectuar, el plazo de cobertura por garantía quedará neutralizado, reanudándose una vez que se haya superado el problema.

f) **GARANTÍA DE CUMPLIMIENTO DE CONTRATO**

Se destaca que el importe de la mencionada garantía de adjudicación, es de DOLARES DOS MIL CIENTO SESENTA Y CUATRO CON TREINTA Y TRES CENTAVOS (US$ 2.164,33), corresponde al 10 % del valor total de la Orden de Compra, de acuerdo a lo estipulado en Artículo 15° del P.B.Y.C.P. (Ver Artículo 16° del P.B.Y.C.P. "Moneda y formas de garantía").

g) RECEPCIÓN TÉCNICA

En la recepción técnica definitiva participará personal de Inspección de Calidad de Fábrica Militar Río Tercero.

Aclaración:

Fabricaciones Militares Sociedad del Estado, C.U.I.T. Nº 30-54669396-8, Nº Inscripción Impuesto de Sellos de la Provincia de Córdoba Nº 48001408.
Impuesto de Sellos pagado por Declaración Jurada, mes julio, año 2021, Impuesto US$ 259,72.

El pago del Impuesto de Sellos deberá ser efectivizado mediante transferencia bancaria al Banco de la Nación Argentina Sucursal Río Tercero – Cuenta Corriente Nº 0436 20001/88 CBU Nº 0110436720043620001884, enviando constancia del depósito a la dirección de correo electrónico: tesoreria.rt@fm.gob.ar

República Argentina - Poder Ejecutivo Nacional
2021 - Año de Homenaje al Premio Nobel de Medicina Dr. César Milstein

Hoja Adicional de Firmas
Orden de compra

Número: DOCFI-2021-64125103-APN-FMSE#MD

VILLA MARIA, CORDOBA
Viernes 16 de Julio de 2021

Referencia: OC-2021-RT-097 "RICH KLINGER S.A."

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Sebastian Rosa
Jefe I
Fabricaciones Militares Sociedad del Estado

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