



آرتا افق هامون

Arta Ofogh Hamoon

مهندسی معکوس، ساخت قطعات و
تجهیزات پتروشیمی و پالایشگاه

Reverse engineering and manufacturing
of petrochemical and refinery parts
and equipment

**CONTROL VALVE
&
ACTUATOR
B R O C H U R E**

www.artaofogh.com





ABOUT US

• شرکت آرتا افق هامون

با بهره گیری از کادری مجرب و با سابقه و دستگاههای پیشرفته جهت رفع موانع در دوران تحریم در خدمت صنعت کشور میباشد. این مجموعه توانسته است با استفاده از نیروهای توانمند و با سابقه، استانداردها و تجهیزات پیشرفته، مهندسی و تولید کنترل ولو و قطعات مرتبط، مطابق با استانداردهای

API و ANSI, ASME, ASTM, MSS, NACE, DIN

خدمات ارزنده ای ارائه دهد.

این شرکت دارای کلیه تجهیزات تست و تعمیر واورهال ولو و همچنین نقشه برداری میباشد.

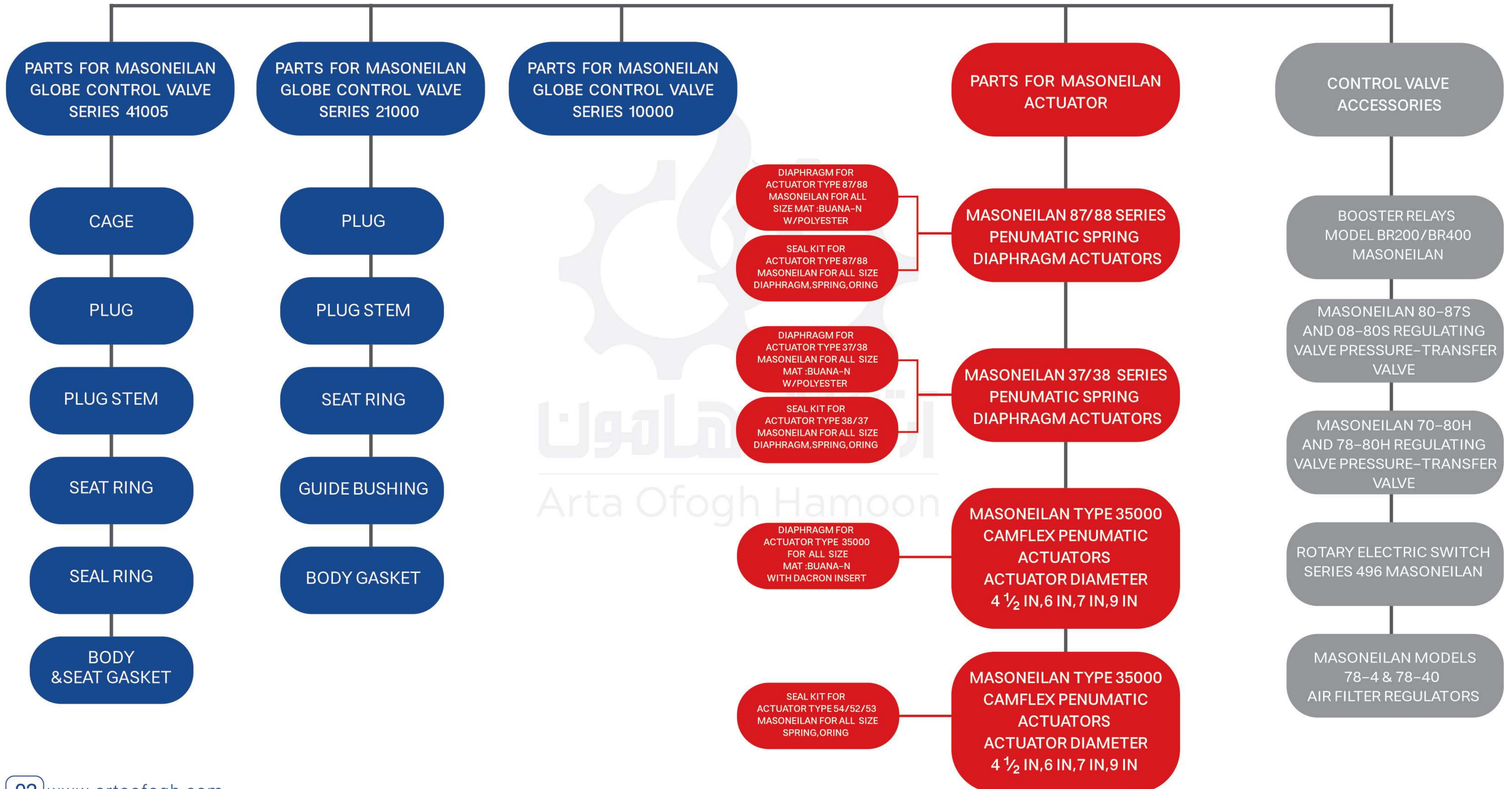
زمینه فعالیت شرکت:

۱. طراحی و ساخت کنترل ولو های برند MASONEILAN/FISHER/PARCOL/RINGO/SAMSON نرم افزار سایزینگ مورد استفاده، VALSPEQ ۴/۱۷/۵ میل باشد و ولو مورد نیاز نیز با استفاده از نقشه های اورجینال MASONEILAN تهیه خواهد گردید.
 ۲. انجام اورهال ولو و کنترل ولو و سیفتی ولو در محل مجتمع
 ۳. تعمیر و رفع عیب و ستینگ سیفتی ریلایف ولو، انجام تست و صدور سرتیفیکیت تست با بروزترین تست بنچ و گیجهای دیجیتال و دارای دقت یک ده هزارم بار
 ۴. تغییر طراحی کنترل ولوهای (اکچویتور و تریم) دارای مشکل نوسان، گیر مکانیکی و خوردگی
 ۵. ساخت انواع ACTUATOR های هیدرولیکی، پنوماتیک، سیلندر پیستونی و اکچویتورهای RACK&PINION FLOWSERVE AUTOMAX در سایزهای مختلف
 ۶. ساخت کلیه قطعات یدکی کنترل ولو و اکچویتور نظیر PLUG , PLUG STEM , VALVE SEAT , CAGE, ACTUATOR DIAPHRAGM, SEAL KIT , REPAIR KIT , ACTUATOR SPRING, SEAL RING, GASKET
- لازم به ذکر است که این شرکت جهت ساخت قطعات یدکی برند مسونیلان نیازی به نمونه نمی باشد، جهت درخواست هر قطعه از برند مسونیلان دیتا شیت یا پارت نامبر مربوطه برای دریافت قطعات خود کافی می باشد.

PRODUCTS

ARTA OFOGH HAMOON

Reverse engineering and manufacturing
of petrochemical and refinery parts
and equipment



PARTS FOR MASONEILAN GLOBE CONTROL VALVE SERIES 41005 >>>

این شرکت با توجه به داشتن آرشیو کامل نقشه های اورجینال برند مسونیلان به نمونه یا نقشه جهت ساخت نیازی ندارد تنها با ارایه دیتا شیت یا پارت نامبر، قطعه درخواستی تحویل کارفرمای محترم می گردد.



Sizes:
• 2" through 16"
(50 through 400 mm)

Ratings and Connections:

flanged ANSI 150 – 2500
UNI-DIN 10 – 400
welded BW or SW
screwed ,NPT 2" (50 mm)

Body Materials:

- carbon steel
- stainless steel
- chrome-moly

Actuator:

- Model 87/88 multi-spring diaphragm
- Model 37/38 spring diaphragm
- Model 51/52/53 cylinder

Trim:

• balanced cage-guided trim. Lo-dB, anti-cavitation and VRT (Variable Resistance Trim), single and multiple cages are
Design Type: Spiral Wound Gasket with graphite filler

Material:

- 316L Stainless Steel + Graphite Filler
- Other options include PTFE, Flexible Graphite, or hard metals for specialized services
- Manufacturing Standards: Compliant with ANSI B16.20 and IEC 60534
- Pressure Rating: Suitable for ASME Class 150 to 2500
- available

CAGE & SEAT RING



Sizes:
• 2" through 24"
(50 through 400 mm)

Trim:

- o Single Stage Lo-dB
- o Multi-Stage Anti-Cavitation
- o VRT® Full Stack Partial Stack
- o Internal Diffuser FOR FTC

Design Type:

Guided cage with cylindrical ports, compatible with various trim styles including Lo-dB, Anti-Cavitation, and VRT®

Standard Material:

Martensitic stainless steel ASTM A487 Grade CA6NM with hard chrome plating

Optional Materials:

316 stainless steel or nitrided steel for high-temperature or corrosive environments

Full Compatibility:

Designed to integrate seamlessly with all Plug, Seat Ring, and Seal Ring configurations across valve sizes from 2" to 24"

Manufacturing Tolerances:

Precision-machined to meet ANSI, ASME, NACE, and API standards

PLUG & PLUG STEM



Sizes:
• 2" through 24"
(50 through 400 mm)

Pressure Class:

ANSI Class 150 to 2500

Standard Material:

17-4 PH Stainless Steel

Surface Treatment:

Hardfacing or Nitriding

Leakage Standard:

ANSI/FCI 70.2 Class II to V

SEAL RING



Sizes:
• 2" through 24"
(50 through 400 mm) Valve Model:

Valve Model:

41305 Seal Type: PTFE Energized

Temperature Range:

–148°F to +450°F Leakage Class: Class IV/V

Valve Model: 41405 Seal Type:

Metal + Pilot Plug Temperature Range: –320°F to +1050°F Leakage Class: Class II/V

Valve Model: 41505 Seal Type:

Metal Seal Ring Temperature Range: –320°F to +1050°F Leakage Class: Class II/V

Valve Model: 41605 Seal

Type: PTFE + Viton Temperature Range: –20°F to +300°F Leakage Class: Class IV

Valve Model: 41905 Seal Type:

Graphite + NiResist Temperature Range: –320°F to +850°F Leakage Class: Class III/IV

Valve Model: 41365 / 41375 Seal

Type: Fluoroly A21 (VRT®) Pressure Range: Up to 6000 psi Leakage Class: Class IV

BODY & BONNET GASKET



Sizes:
• 2" through 24"
(50 through 400 mm)

Design Type:

Spiral Wound Gasket with graphite filler

Material:

- o 316L Stainless Steel + Graphite Filler
- o Other options include PTFE, Flexible Graphite, or hard metals for specialized services

Manufacturing Standards:

Compliant with ANSI B16.20 and IEC 60534

Temperature Resistance:

Up to 800°F (427°C)

Pressure Rating:

Suitable for ASME Class 150 to 2500



21000 Series globe & angle top-guided valve

Sizes:

- 3/4" through 6" (20 through 150 mm)

Ratings and Connections:

- flanged ANSI 150 – 2500
- UNI-DIN 10 – 400
- welded /BW or SW
- screwed ,NPT 3/4" through 2" (20 through 50 mm)

Body Materials:

- carbon steel
- stainless steel chrome-moly

Actuator:

- Model 87/88 multi-spring diaphragm

Trim:

- single seat plug top guided.
- Lo-dB and anti-cavitation trims, single or double stage are available

Inherent Characteristics:

- linear or equal percentage

PLUG & PLUG STEM



Sizes:

0.75 inches to 8 inches
Pressure Class: ASME Class 150 to 2500

Flow Characteristic:

Linear / Equal Percentage / Modified Percent

Plug Technical Specifications:

Motion Type:

Linear (Flow-to-Open or Flow-to-Close)

Flow Characteristics:

Linear, Equal Percentage, Modified Percent

Design Type: Contoured, Soft Seat, Lo-dB, Anti-Cavitation, Quick Change

Material:

- 316 Stainless Steel with surface hardening using Stellite No.6
- Hardened 410 Stainless Steel
- Solid Stellite for Cv less than 1.7

Compatibility: Compatible with various Cage, Seat Ring, Stem, and Bonnet configurations across different valve models

SEAT RING



Sizes:

0.75 inches to 8 inches

Pressure Class:

ASME Class 150 to 2500

Seat Ring Technical Specifications:

Design Type:

Quick Change, Threaded, or Integral depending on the valve model

Material:

- 316 Stainless Steel with surface hardening using Stellite No.6
- Hardened 410 Stainless Steel
- Teflon Seat for Soft Seat models

Sealing Type:

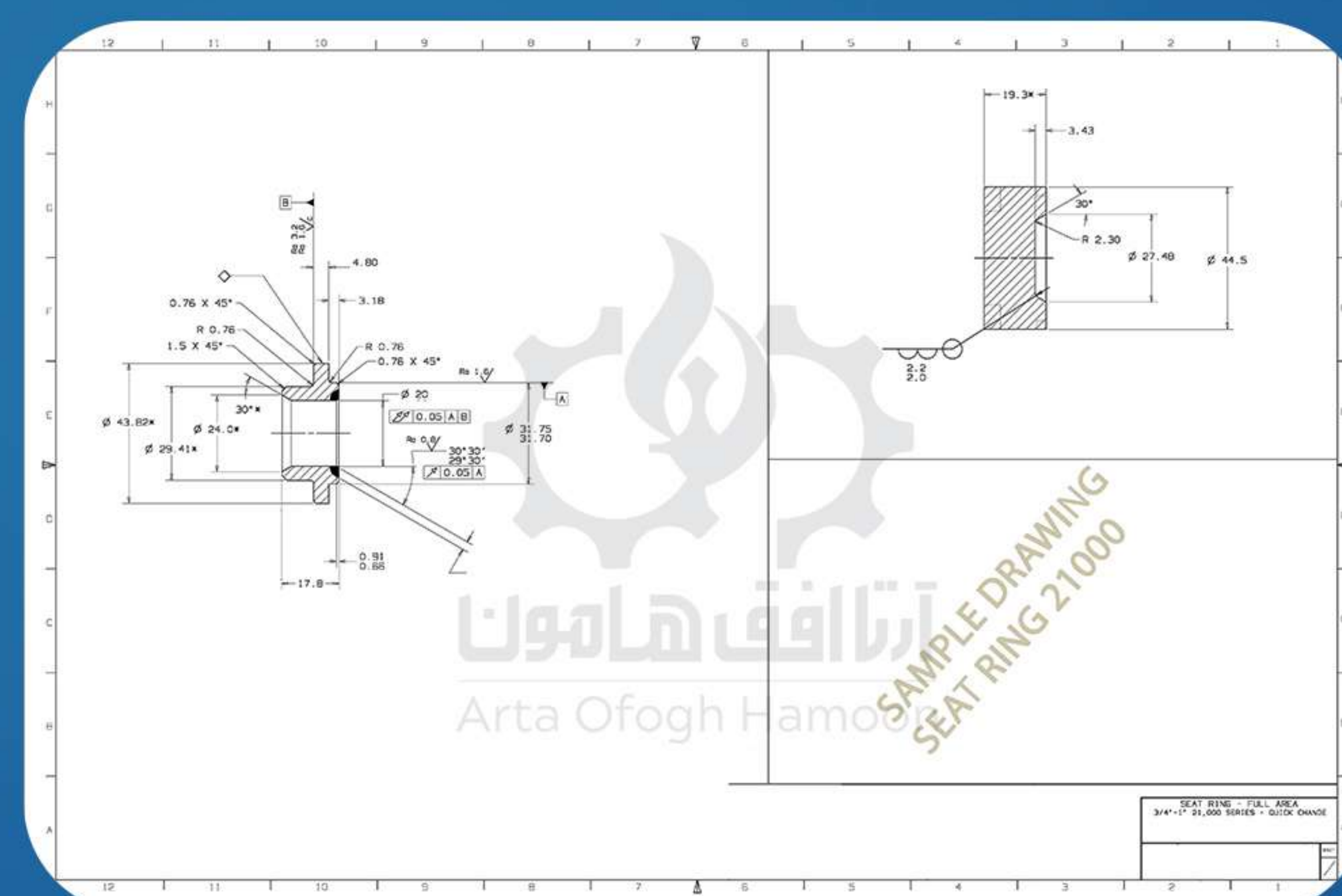
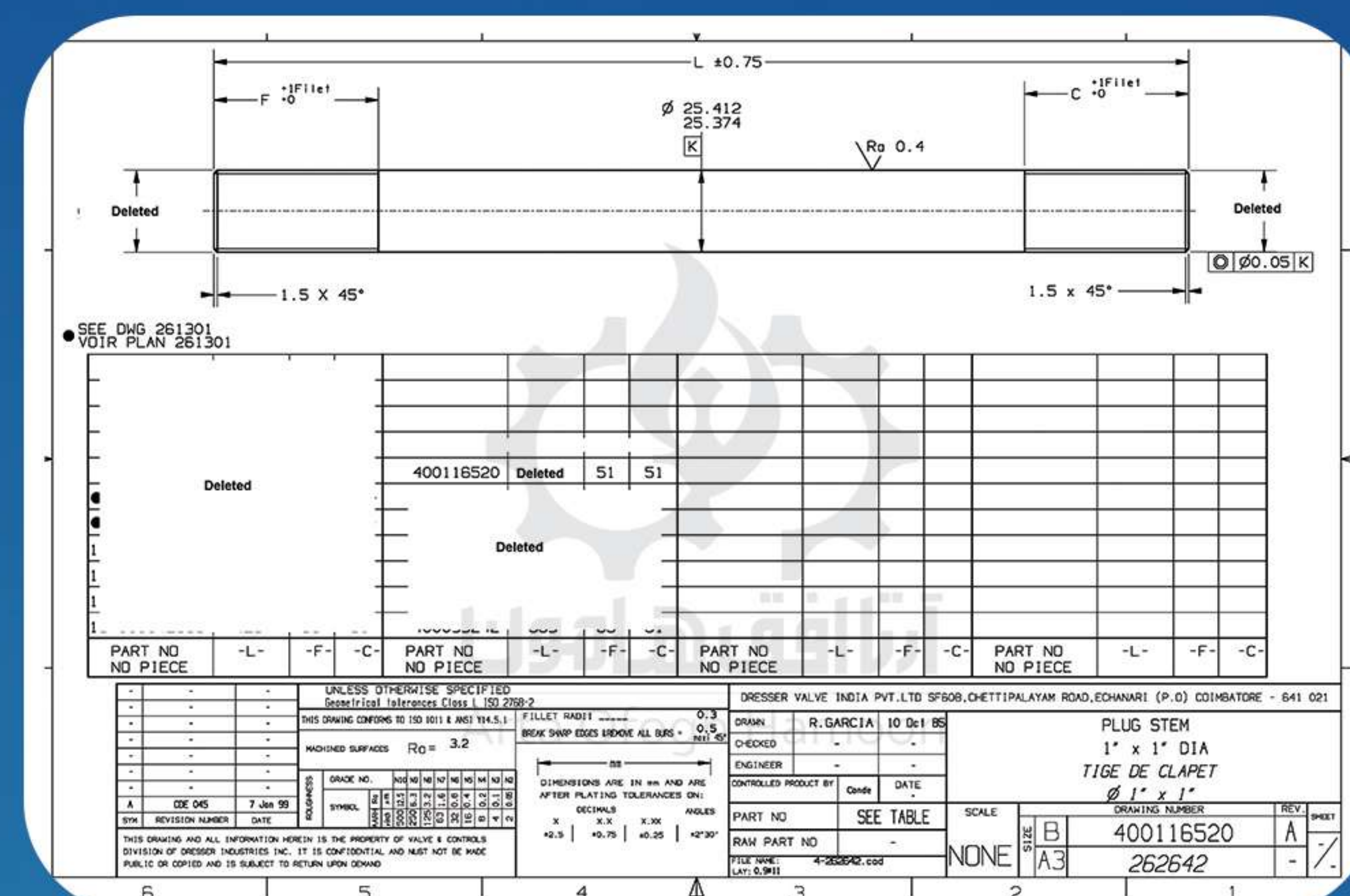
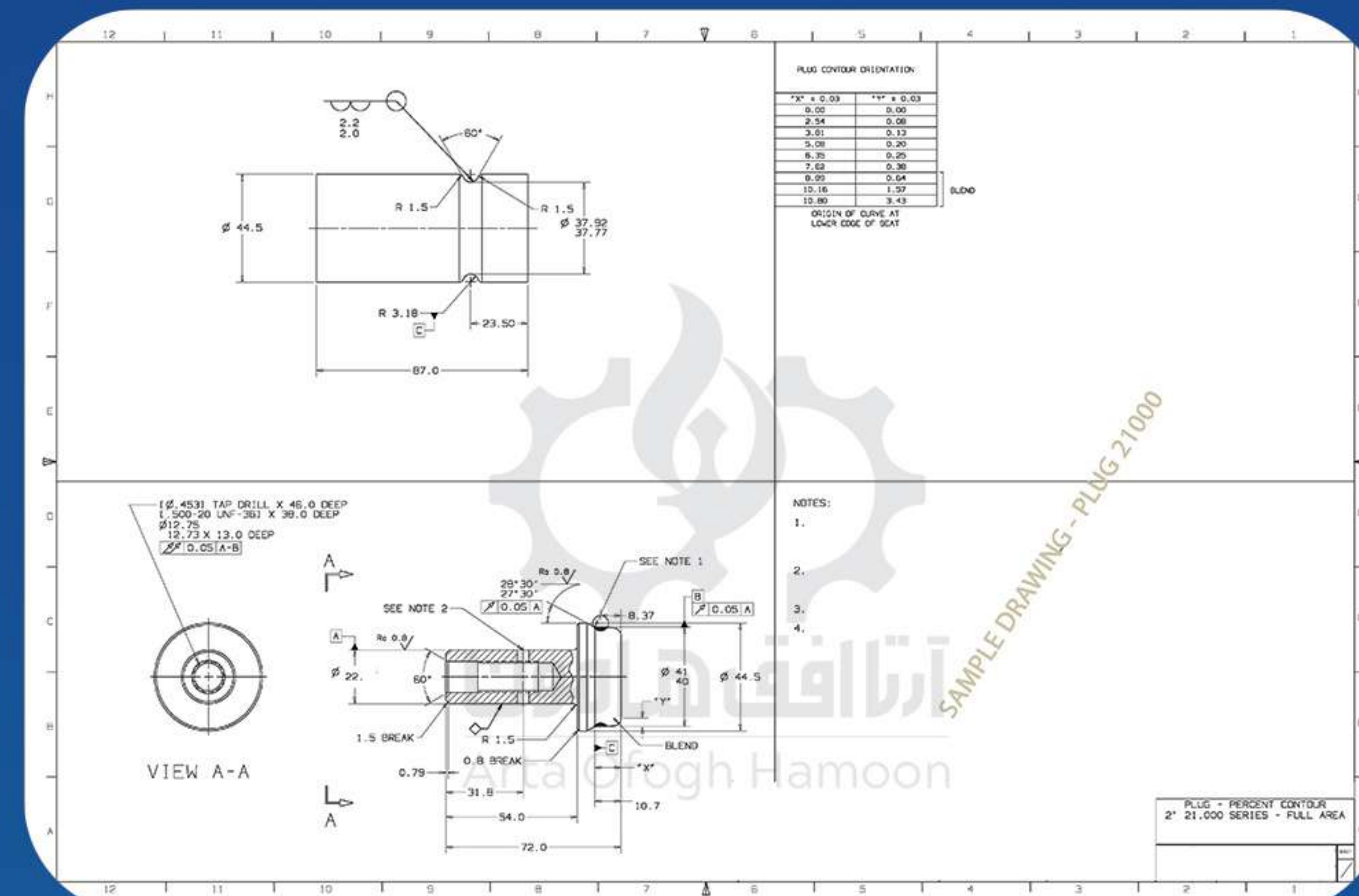
Metal-to-Metal or Soft Seat with Leakage Class VI according to ANSI/FCI 70.2

Compatibility:

Compatible with various Plug, Cage, and Bonnet configurations across different valve models

Advantages of 21000 Series Seat Ring:

Quick replacement capability in Quick Change models to minimize maintenance time



MASONEILAN 87/88 SERIES SPRING
DIAPHRAGM ACTUATORS



Sizes:

- Size 6 with 20 mm stroke
- Size 10 with 20 or 38 mm stroke
- Size 16 with 20, 38, 50, or 63 mm stroke
- Size 23 with 20, 38, 50, or 63 mm stroke

Technical Features:

- Operating type: Spring-diaphragm mechanism with multi-spring design assisted by pneumatic air
- Model 87: Direct-acting
- Model 88: Reverse-acting
- Air action can be switched on-site without the need for additional parts
- Diaphragm design: Rolling diaphragm made of molded elastomer reinforced with fabric for high sensitivity and long service life
- Optional handwheel installation available for manual control

DIAPHRAGM & SEAL KIT FOR ACTUATOR TYPE 87/88
MASONEILAN FOR ALL SIZE MAT:BUNA-N W/POLYESTER



DIAPHRAGM SIZE & PART NO ACT UATOR TYPE87/88:

- Actuator Size 6 with 0.8 in stroke — Diaphragm Part Number: 010864-003-779
- Actuator Size 10 with 1.5 in stroke — Diaphragm Part Number: 010865-003-779
- Actuator Size 16 with 2.0 in stroke — Diaphragm Part Number: 010866-003-779
- Actuator Size 23 with 2.5 in stroke — Diaphragm Part Number: 010867-003-779

» Ref No 16 – Hex Head Cap Screw:
Carbon Steel (Metric)

- Size 6: 971008-042-110
- Size 10: 971008-043-110
- Size 16: 971012-043-110
- Size 23: 971012-043-110 (x6)

Ref No 13 – O-Ring:
Buna-N

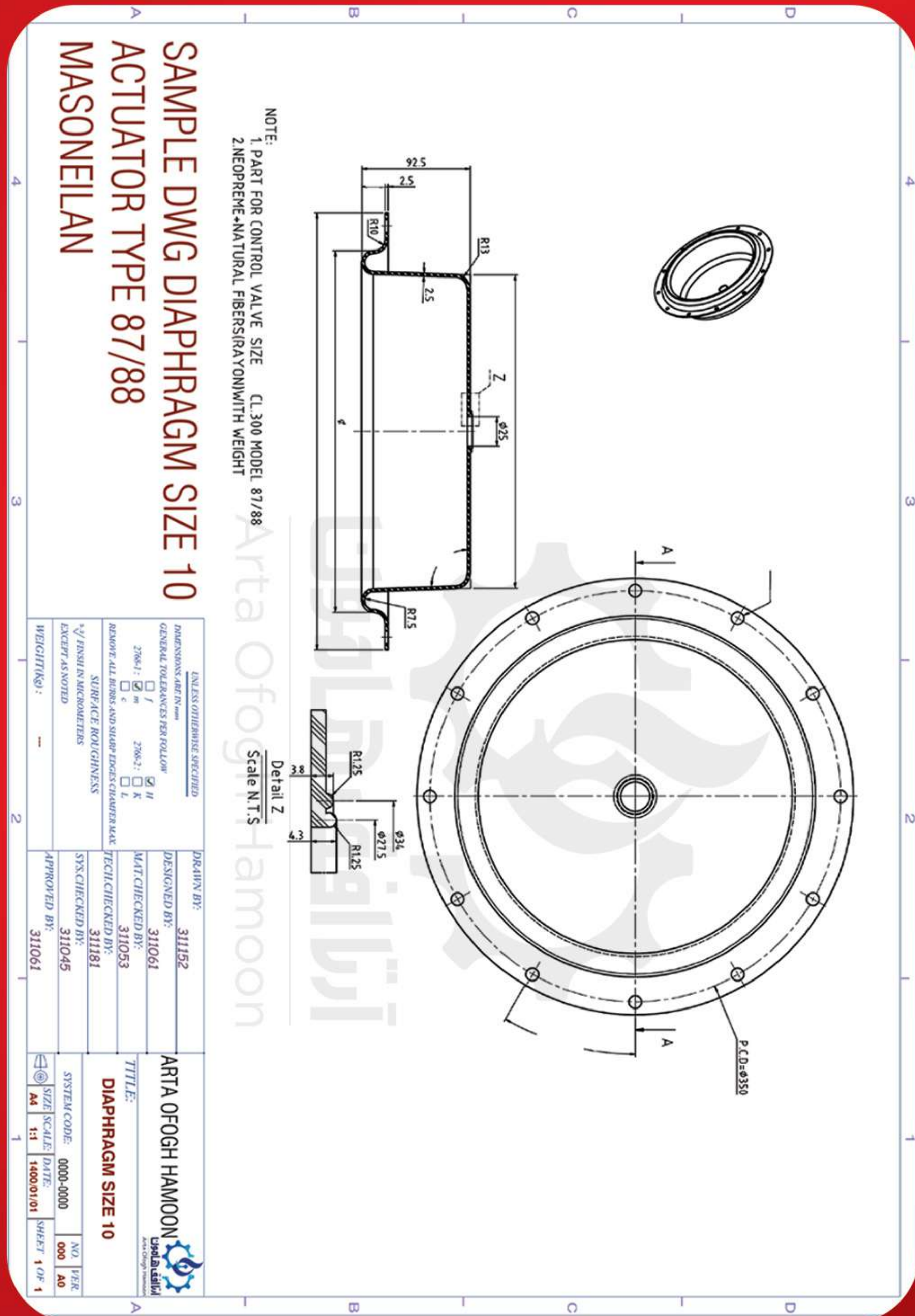
- Size 6: 971886-312-680
- Size 10: 971886-312-680
- Size 16: 971886-318-680
- Size 23: 971886-319-680 (x1)

» Ref No 11 – Stem Wiper:
Polyurethane (INCO Z-22x30)

- Size 6: 972001-010-789
- Size 10: 972001-010-789
- Size 16: 972001-011-789
- Size 23: 972001-012-789 (x1)

» Ref No 12 – O-Ring:
Buna-N

- Size 6: 971886-311-680
- Size 10: 971886-311-680
- Size 16: 971886-317-680
- Size 23: 971886-312-680 (x1)



MASONEILAN 37/38 SERIES PNEUMATIC SPRING DIAPHRAGM ACTUATORS



Sizes:

- Actuator Size 11 with 1.0 in stroke
Bench Range: 6–30 psi
- Actuator Size 13 with 1.5 in stroke
Bench Range: 6–30 psi
- Actuator Size 15 with 2.0 in stroke
Bench Range: 6–30 psi
- Actuator Size 18 with 2.5 / 4.0 in stroke
Bench Range: 6–30 psi
- Actuator Size 24 with 4.0 in stroke
Bench Range: 6–30 psi

Technical Features:

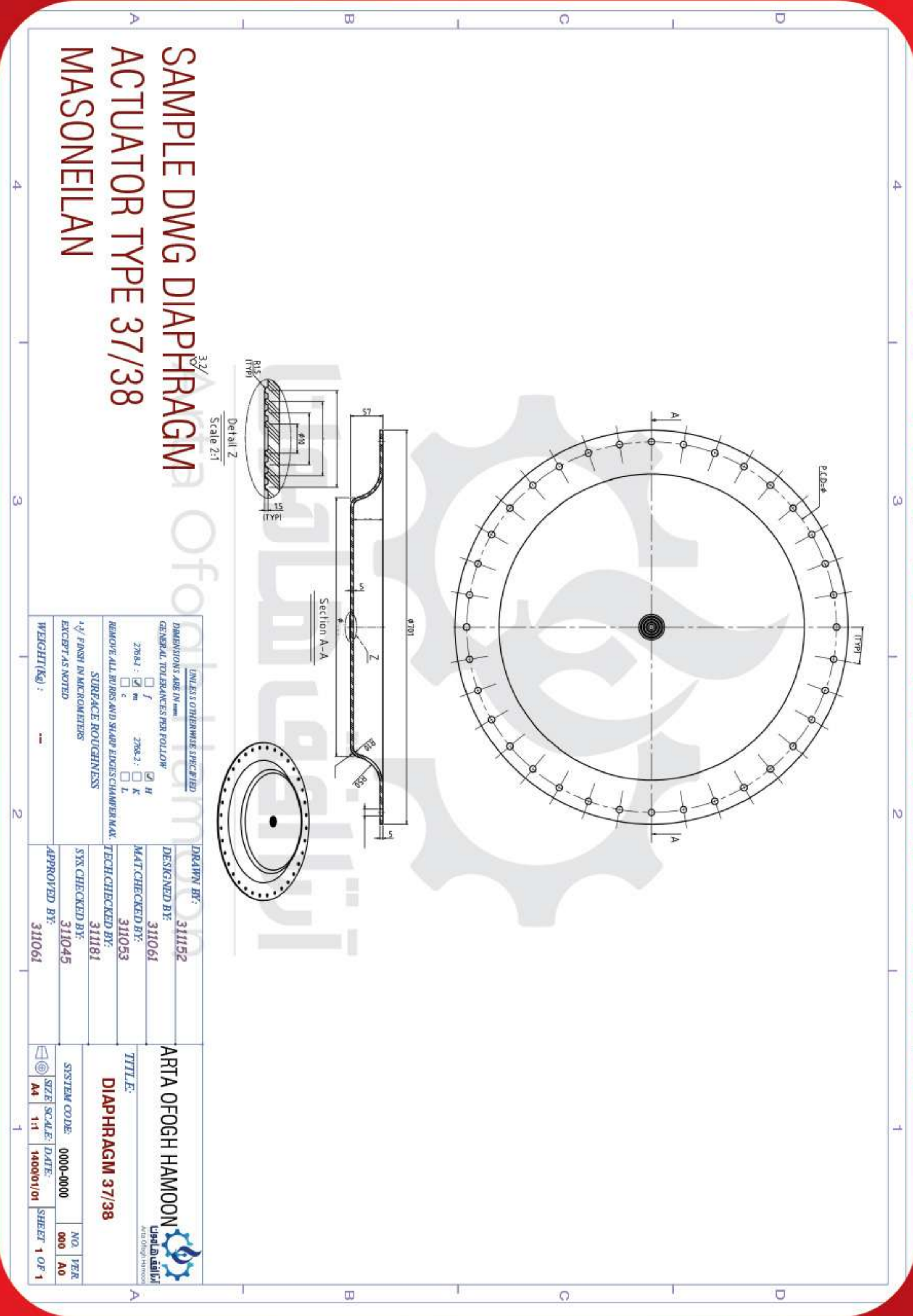
- Operating Type: Spring–diaphragm mechanism with multi–spring design assisted by pneumatic air
- Model 37: Direct–acting
- Model 38: Reverse–acting
- Air action can be switched on–site without the need for additional parts
- Diaphragm Design: Rolling diaphragm made of molded elastomer reinforced with fabric for high sensitivity and long service life

DIAPHRAGM&SEAL KIT FOR ACTUATOR TYPE 37/38 MASONEILAN FOR ALL SIZE . MAT:BUNA–N W/POLYESTER MAT:BUNA–N W/POLYESTER



size:

- Actuator Size 11 — Travel: 1.0 in — Bench Range: 6–30 psi — Max Supply Pressure: 60 psi — Diaphragm Material: Molded elastomer reinforced with fabric
- Actuator Size 13 — Diaphragm Area: 105 in² — Travel: 1.5 in — Bench Range: 6–30 psi — Max Supply Pressure: 60 psi — Diaphragm Material: Molded elastomer reinforced with fabric
- Actuator Size 15 — Diaphragm Area: 145 in² — Travel: 2.0 in — Bench Range: 6–30 psi — Diaphragm Material: Molded elastomer reinforced with fabric
- Actuator Size 18 — Diaphragm Area: 200 in² — Travel: 2.5 in — Bench Range: 6–30 psi — Diaphragm Material: Molded elastomer reinforced with fabric
- Actuator Size 18 (16") — Diaphragm Area: 200 in² — Travel: 4.0 in — Bench Range: 6–30 psi –Diaphragm Material: Molded elastomer reinforced with fabric
- Actuator Size 18 (20") — Diaphragm Area: 200 in² — Travel: 4.0 in — Bench Range: 6–30 psi— Diaphragm Material: Molded elastomer reinforced with fabric
- Actuator Size 24 — Diaphragm Area: 330 in² — Travel: 4.0 in — Bench Range: 6–30 psi Diaphragm Material: Molded elastomer reinforced with fabric



➤➤ 1. DIAPHRAGM Ordering Procedure To accurately order the appropriate diaphragm for actuator Series 37 or 38, follow these steps:

➤➤2. Define Actuator Specifications:

- o Actuator Type: Type 37 (Air to Close) or Type 38 (Air to Open)
- o Actuator Size: 11, 13, 15, 18, or 24
- o Required Travel
- o Bench Range
- o Actuator Serial Number (if available)

MASONEILAN TYPE 35000 CAMFLEX PNEUMATIC ACTUATORS DIAMETER 4 1/2 IN,6IN,7IN,9IN



35002 Series Camflex II

Sizes:

- 1" through 16" (25 through 400 mm)
- Ratings and Connections:
 - flanged ANSI 150, 300, 600
 - flangeless for mounting between flanges ANSI 150 – 600
 - UNI-DIN 10 –100
 - screwed NPT (1" through 2")

Body Materials:

- carbon steel
- stainless steel
- high nickel alloy

Actuator:

- Model 35 spring diaphragm
- 70 Series cylinder

Trim:

- eccentric rotary plug

Inherent Characteristic:

- linear
- As the original eccentric plug rotary valve, the Camflex combines top performance and features with an extremely economical design.

DIAPHRAGM FOR ACTUATOR TYPE 35000 / SIZE: ALL SIZE
MAT:BUNA-N WITH DACRON INSERT

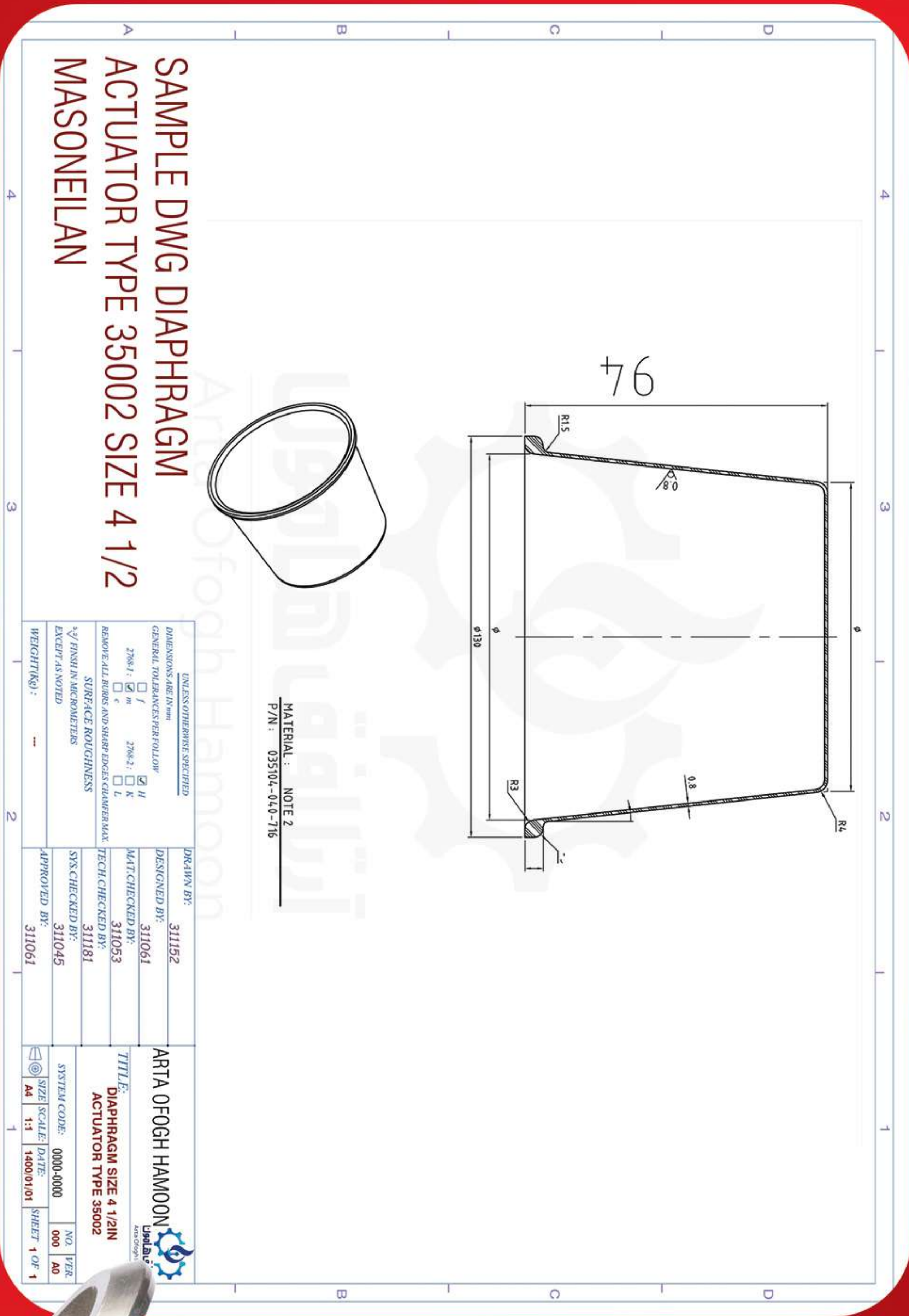


Actuator Size and Corresponding Diaphragm Part Number for Masoneilan Type 35002 Actuator:

- Size 4 1/2 in.: Part Number 035104-040-716
- Size 6 in.: Part Number 035106-040-716
- Size 7 in.: Part Number 035107-040-716
- Size 9 in.: Part Number 035109-040-716

Diaphragm Sizes and Performance Specifications:

- actuator sizes 1"-2" (DN 25-50): diaphragm diameter is 4 1/2 inches (114 mm), stroke is 3 1/2 inches (89 mm), and operating pressure ranges from 7 to 15 psi.
- For actuator sizes 3"-4" (DN 80-100): diaphragm diameter is 6 inches (152 mm), stroke is 5 3/4 inches (146 mm), and operating pressure ranges from 7 to 15 psi.
- For actuator sizes 6"-12" (DN 150-300): diaphragm diameter is either 7 inches or 9 inches, stroke is 7 1/4 inches (184 mm), and operating pressure ranges from 7 to 24 psi for air-to-close and 8 to 25 psi for air-to-open.



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MASONEILAN TYPE 51/52/53 PNEUMATIC PISTON ACTUATORS / SIZE:12,SIZE:16,SIZE:20



Actuator Models and Their Functions

- **Model 51** – Double Acting Cylinder (No Springs) Used for precise bidirectional control. Requires air pressure for both extension and retraction.
- **Model 52** – Air-to-Extend Cylinder (Spring Return) Uses air pressure to extend the stem; spring returns it to the original position. Ideal for fail-safe open applications.
- **Model 53** – Air-to-Retract Cylinder (Spring Return)

Available Sizes (Standard and Extended)

These sizes apply across models 51, 52, and 53, depending on configuration:

- Standard Sizes: 12, 16, 20
- Extended Sizes (L-type): 16L, 20L, 24L, 28L, 32L
- Large Sizes (Model 51 only): 24, 28, 32, 40, 46
- Size 12: Cylinder diameter 305 mm, stroke up to 4 in. (101.6 mm)
- Size 16: Cylinder diameter 386 mm, stroke up to 6 in. (152.4 mm)
- Size 20: Cylinder diameter 488 mm, stroke up to 6 in. or 12 in. depending on configuration
- Size 24L: Cylinder diameter 572 mm, stroke up to 30 in. (762 mm)

SEAL KIT FOR ACTUATOR TYP51,52,53 MASONEILAN FOR ALL SIZE ,SPRING ,ORING



Certainly, here is the O-Ring data for Masoneilan Type 51 valves presented in linear format:

- Part No. 000102974353TD9 — Model 51-80176 — Size 6" — Material: NBR
- Part No. 000204404353TD9 — Model 51-302A-300 (TVC) — Size 20" — Material: ABR
- Part No. 000205039353709 — Model 51-21119 — Size 6" — Material: NBR
- Part No. 000205357353709 — Model 51-21119 — Size 6" — Material: NBR
- Part No. 000205944353TD9 — Model 51-21119 — Size 6" — Material: ABR
- Part No. 000329146533TD9 — Model 51-302A-300 (TVC) — Size 20" — Material: ABR
- Part No. 000103452353TD9 — Model 51-21115 — Size 10" — Material: NBR
- Part No. 000104382533709 — Model 51-21119 — Size 6" — Material: FBR
- Part No. 000105652533TD9 — Model 51-21119 — Size 6" — Material: ABR
- Part No. 000136766698TD9 — Model 51-302A-300 (TVC) — Size 20" — Material: NBR
- Part No. 000129146698TD9 — Model 51-21115 — Size 10" — Material: ABR
- Part No. 000346876698TD9 — Model 51-21119 — Size and Material not specified

PNEUMATIC ACTUATORS RAK&PINION SuperNova Flowserve Automax



Available Sizes of SuperNova Actuators SuperNova series actuators are offered in various sizes, selected based on the required valve torque, air supply pressure, and operating type.

- Model S050 — ISO Connection F04 — Torque up to 10 Nm — Approx. Weight: 1.2 kg (Double Acting)
- Model S063 — ISO Connection F05 — Torque up to 21 Nm — Approx. Weight: 1.7 kg
- Model S085 — ISO Connection F07 — Torque up to 44 Nm — Approx. Weight: 3.4 kg
- Model S100 — ISO Connection F07 — Torque up to 81 Nm — Approx. Weight: 5.2 kg
- Model S115 — ISO Connection F10 — Torque up to 135 Nm — Approx. Weight: 8 kg
- Model S125 — ISO Connection F10 — Torque up to 190 Nm — Approx. Weight: 11.5 kg
- Model S150 — ISO Connection F12 — Torque up to 342 Nm — Approx. Weight: 19.5 kg
- Model S175 — ISO Connection F14 — Torque up to 512 Nm — Approx. Weight: 31.9 kg
- Model S200 — ISO Connection F14 — Torque up to 728 Nm — Approx. Weight: 41.5 kg
- Model SN250 — ISO Connection F16 — Torque up to 2147 Nm — Approx. Weight: 12.4 kg
- Model SN300 — ISO Connection F16 — Torque up to 3035 Nm — Approx. Weight: 23 kg

»» SERIES VARIMAX 30000



»»37002 Series swing-through butterfly

» Sizes:

- 2" through 24" (50 through 600 mm)

» Ratings and Connections:

- wafer for mounting between flanges
ANSI 150 – 300 / UNI-DIN 10 – 40

» Body Materials:

- carbon steel
- stainless steel
- Liners in Buna-N, Viton and Nordel

» Actuator:

- Model 33 spring diaphragm
- Model 37 spring diaphragm

» Trim:

- low torque butterfly

» Inherent Characteristic:

- equal percentage

The 37002 Series is a control valve used on very large flow rates with low pressure drop. It is available with complete PTFE lining (38002 Series) for corrosive fluids applications

»» MASONEILAN GLOBE CONTROL VALVE SERIES 10000



»» 10000 Series double seated globe valve

» Sizes:

- 2" through 24" (50 through 600 mm)

» Ratings and Connections:

- flanged ANSI 150 – 1500
UNI-DIN 10 – 250
- welded BW or SW
- screwed NPT 3/4" through 2"
(20 through 50 mm)

» Body Materials:

- carbon steel
- stainless steel
- chrome-moly

» Actuator:

- Model 87/88 multi-spring diaphragm
- Model 84/85/86 cylinder

» Trim:

- V-port or contoured plug top and
bottom guided

» Inherent Characteristic:

- linear, quick opening or equal percentage

The 10000 Series is a double ported valve with top and bottom stem guiding. This design is ideal for high-pressure drop applications, where dirty fluid conditions exist.

»» BOOSTER RELAYS MODEL BR200/BR400 MASONEILAN 78-80S AND 08-80S REGULATING VALVE PRESSURE-TRANSFER VALVE



»» Booster Relays Models BR200 and BR400

» Technical Specifications:

- Maximum Cv (Supply): BR200 = 1.2, BR400 = 2.6 – Maximum Cv (Exhaust): BR200 = 1.2, BR400 = 2.4 – Input Signal Pressure: Up to 150 psi (10.3 bar) for both models – Input/Output Ratio: 1:1 for both models – Operating Temperature: -55°C to +60°C or 0°C to +100°C for both models – Supply and Output Connections: BR200 = 1/4" NPT or Rc, BR400 = 1/2" NPT or Rc – Signal Connection: 1/4" NPT or Rc for both models – Approximate Weight: BR200 = 0.7 kg, BR400 = 1.4 kg

» Ordering Procedure :

To place an order for BR200 or BR400 models, please follow the steps below:

1. Select the Appropriate Model •BR200 – Suitable for general-purpose applications with medium flow requirements •BR400 – Designed for heavy-duty, high-speed operations or marine environments
2. Specify Connection Type and Body Material •Connections: NPT or Rc thread •Body Material: Aluminum or Stainless Steel (only for specific applications)

»» MASONEILAN 78-80S AND 08-80S REGULATING VALVE PRESSURE -TRANSFER VALVE



»» TRANSFER VALVES MODEL 78-80S & 08-80S

» Technical Specifications:

- Body Operating Pressure: Up to 1.72 MPa – Signal Section Operating Pressure: Up to 1.03 MPa – Adjustable Pressure Range: 100 to 700 kPa – Hysteresis: Less than 34 kPa – Flow Coefficient (Cv): IN→OUT = 0.8 / OUT→EXH = 1.3 – Connections: Rc 1/4" (Optional: NPT 1/4") for IN, OUT, EXH, SIGNAL – Operating Temperature: -30°C to +83°C (Optional: up to +100°C)

» Ordering Procedure :

To accurately order models 78-80S and 08-80S, please follow the steps below:

1. **Model Selection** : 78-80S – Includes pilot valve; suitable for pressure control and signal transmission •08-80S – Without pilot valve; can be connected to model 78-80S
2. **Technical Specifications** : Desired set pressure (between 100 and 700 kPa) •Connection type: Rc or NPT •Operating temperature range: Standard or High-Temperature option
3. **Application Definition** : Use as a standalone unit or in combination with multiple units •Requirement for Lock-Up function

» MASONILAN 78-80H
AND 78-80H REGULATING VALVE
PRESSURE-TRANSFER VALVE
AIR FILTER REGULATORS



» Technical Specifications:

- Maximum Body Operating Pressure: 1.72 MPa
- Maximum Signal Pressure: 1.03 MPa
- Adjustable Pressure Range: 100 to 700 kPa
- Hysteresis: Less than 34 kPa
- Flow Capacity (Cv): IN→OUT = 4.5 / OUT→EXH = 5.0
- Connections: IN, OUT, EXH = Rc 1/2" (Optional: NPT 1/2") / SIGNAL = Rc 1/4" (Optional: NPT 1/4")
- Operating Temperature: -30°C to +83°C (Optional: up to +100°C)

» Functional Features:

- Three-way transfer function: shuts off inlet flow and connects outlet to exhaust upon signal pressure drop
- Can be used as a Lock-up Valve
- Allows combining multiple 08-80H valves with one 78-80H to simplify piping
- Easy pressure adjustment via set screw and locking mechanism
- Robust design with components made of stainless steel, chromate, and rubber

» Main Components and Materials:

- Body: Chromate or Aluminum Alloy
- Piston: Chromate / NBR
- Spring: SUS304-WPB
- O-rings: NBR – Bolts and Nuts: SUS304
- Diaphragm: NBR / Dacron
- Floating Ball: SUS440C
- Air Filter: SUS304

» MASONILAN MODELS
78-40 & 78-4
AIR FILTER REGULATORS



» Technical Specifications:

- Models: 78-4 and 78-40
- Output Pressure Range: 78-4 = 5-40 psi / 78-40 = 5-100 psi
 - Maximum Input Pressure: Up to 210 psi (15 bar)
 - Connection: 1/4" NPT or Rc
 - Flow Capacity (Cv): 0.25
 - Filter: Porous polyethylene, 5-micron precision
 - Ambient Temperature: -40°C to +83°C
 - Air Consumption: 0.004 scfm
 - Weight: 0.45 kg
 - Body Material: Die-cast aluminum
 - Internal Components: Stainless steel, VALOX™ 420, NBR, Neoprene

» Product Customization Guide

To customize regulators from the 78 series, the following options are available:

- Select the appropriate model based on required pressure range (78-4 or 78-40)
- Choose connection type: NPT or Rc
- Specify operating temperature range: Standard, Low-Temperature, or High-Temperature
- Include recommended spare parts for long-term maintenance
- Add mounting bracket if needed
- Select filter type and special materials for corrosive environments

» ROTARY ELECTRIC SWITCH
SERIES 496 MASONILAN



» 496 SERIES
ROTARY LIMIT SWITCH

» Rating:

- 10 amps @ 300 Volts A.C.
- 0.6 amps @ 24/30 Volts D.C

» Number of Contacts:

- 496-1: 1-SPDT
 - 496-2: two contacts 2-SPDT (Both are explosion proof type)
- 496-4 & 496-5 are supplied with inductive proximity sensor.

The 496 Series allows for remote reception of one or two predetermined valve positions (generally open and/or close positions).

» FIELDBUS VALVE
POSITIONER MASONILAN FVP 110



» FVP™
DIGITAL POSITIONER AND PID CONTROLLER

» Communication Platform:

- Foundation Fieldbus

» Input Signal:

- Foundation Fieldbus
- no external power required
- supply pressure: 20 – 100 psi (1.4 – 7 bar)

» Communication Software Interface:

- ValVue®FF – Foundation Fieldbus

» Hazardous Area Certifications:

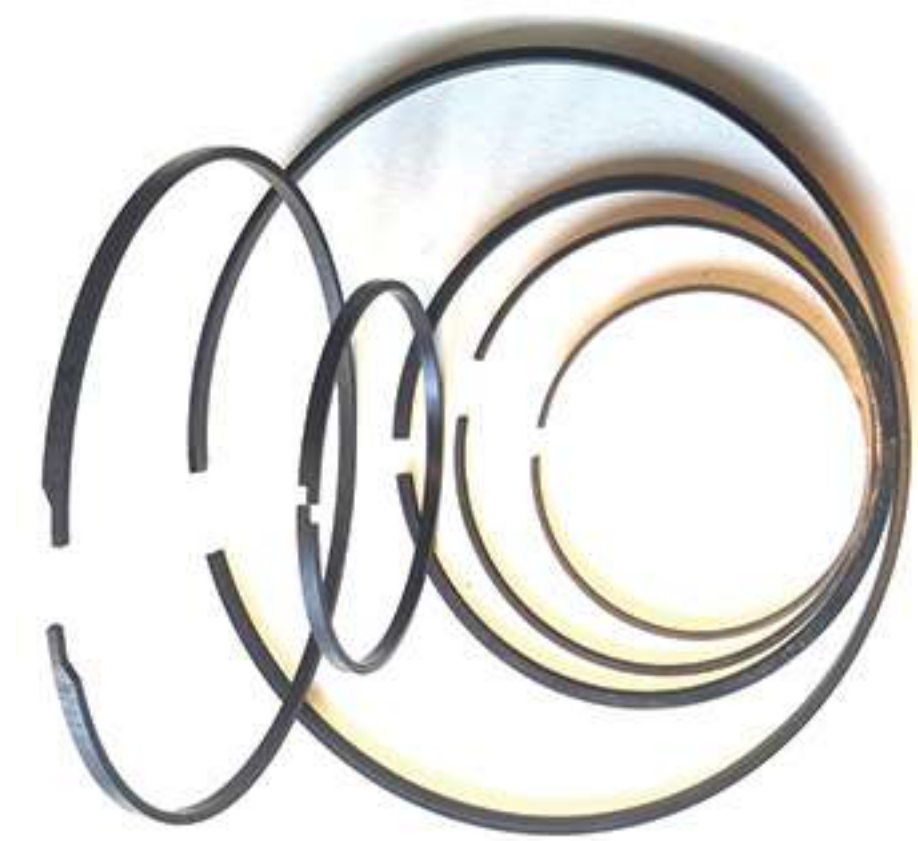
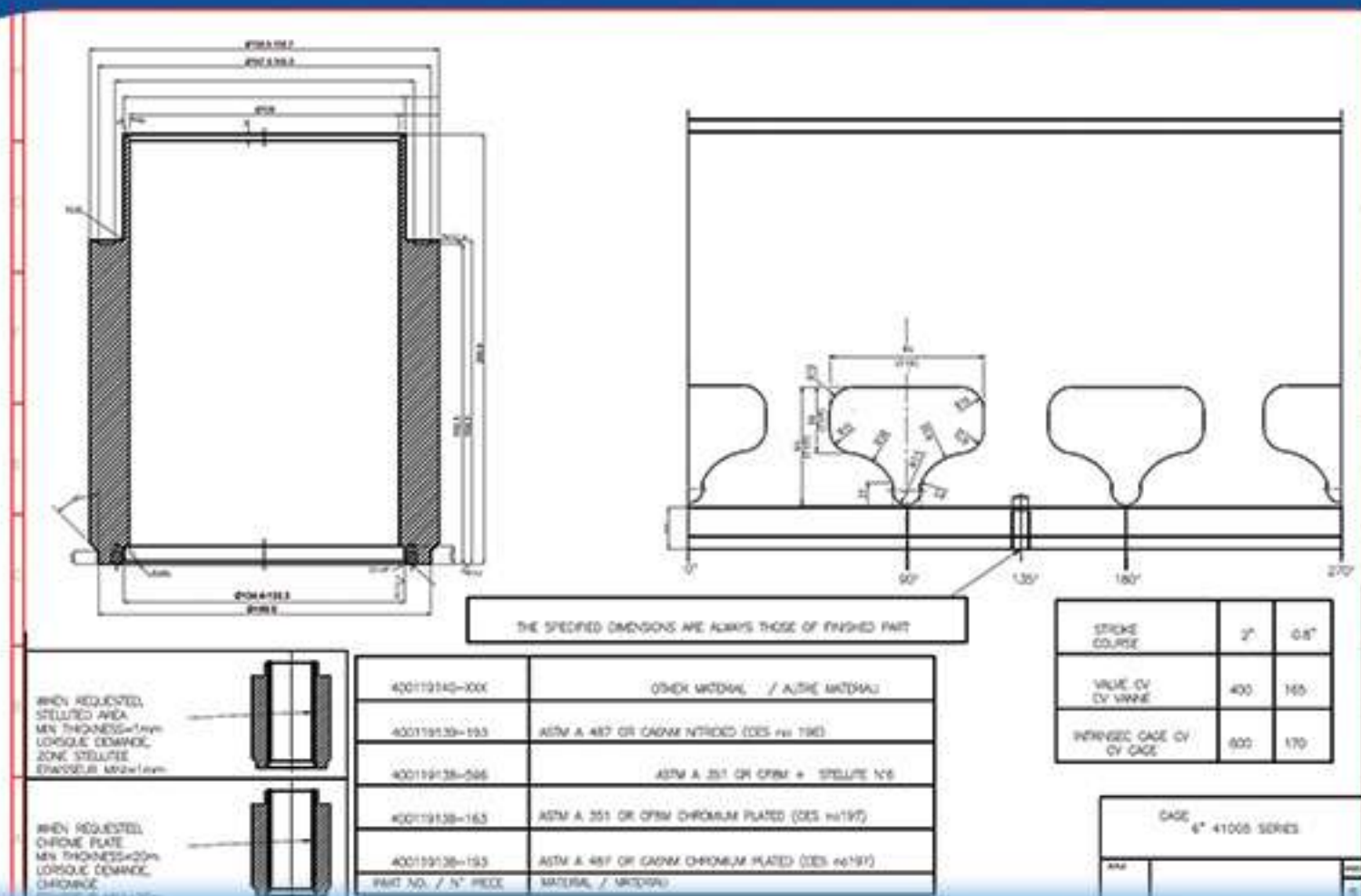
- Cenelec, FM, and CSA agency approvals

Masonilan, a leader in the automated process control industry, introduces the FVP – Fieldbus Valve Positioner, a digital valve positioner and PID process controller. The FVP offers highly advanced control technology for pneumatically actuated valves, providing higher precision and greater flexibility. A Fieldbus version of ValVue software is available

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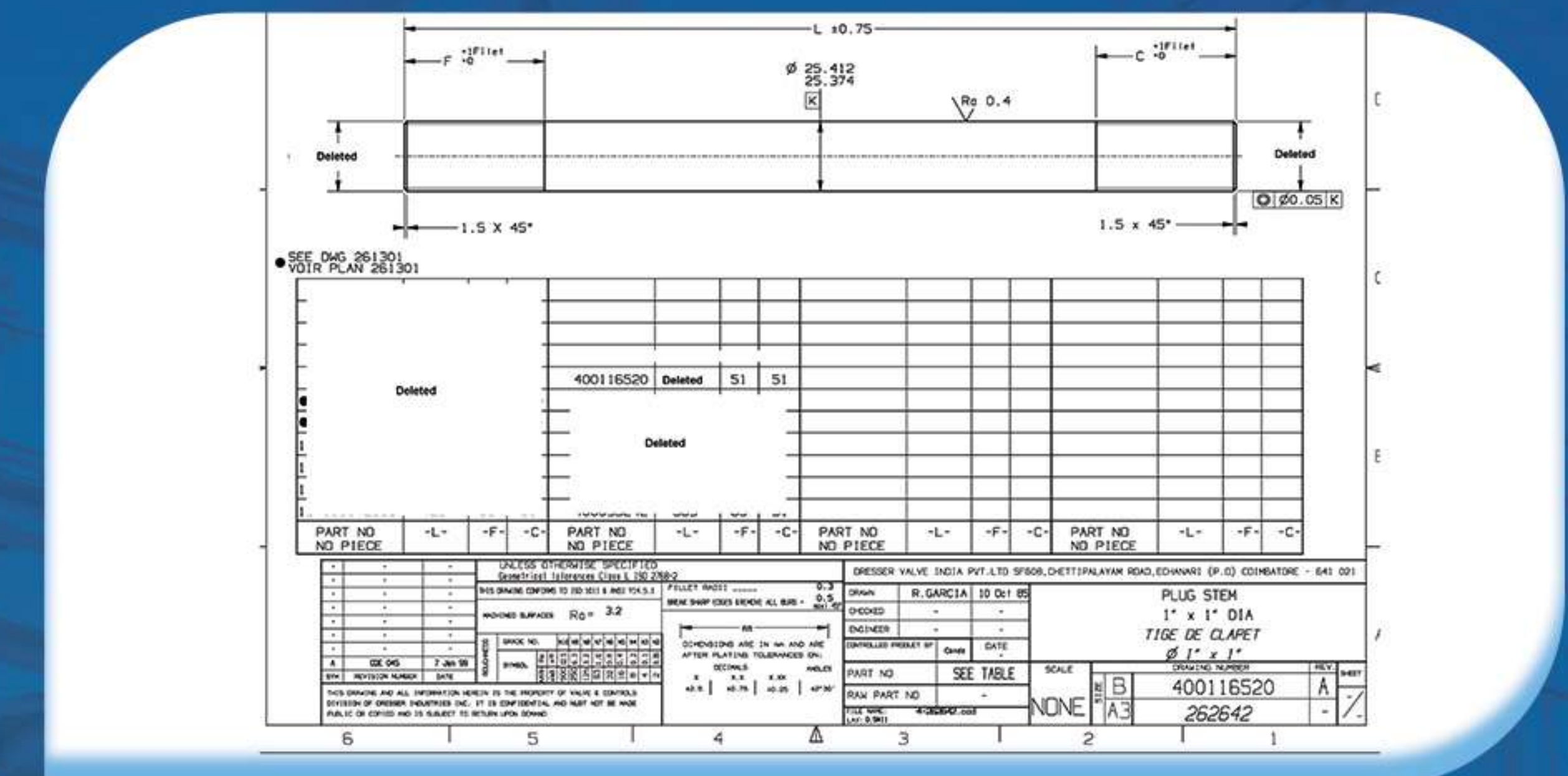
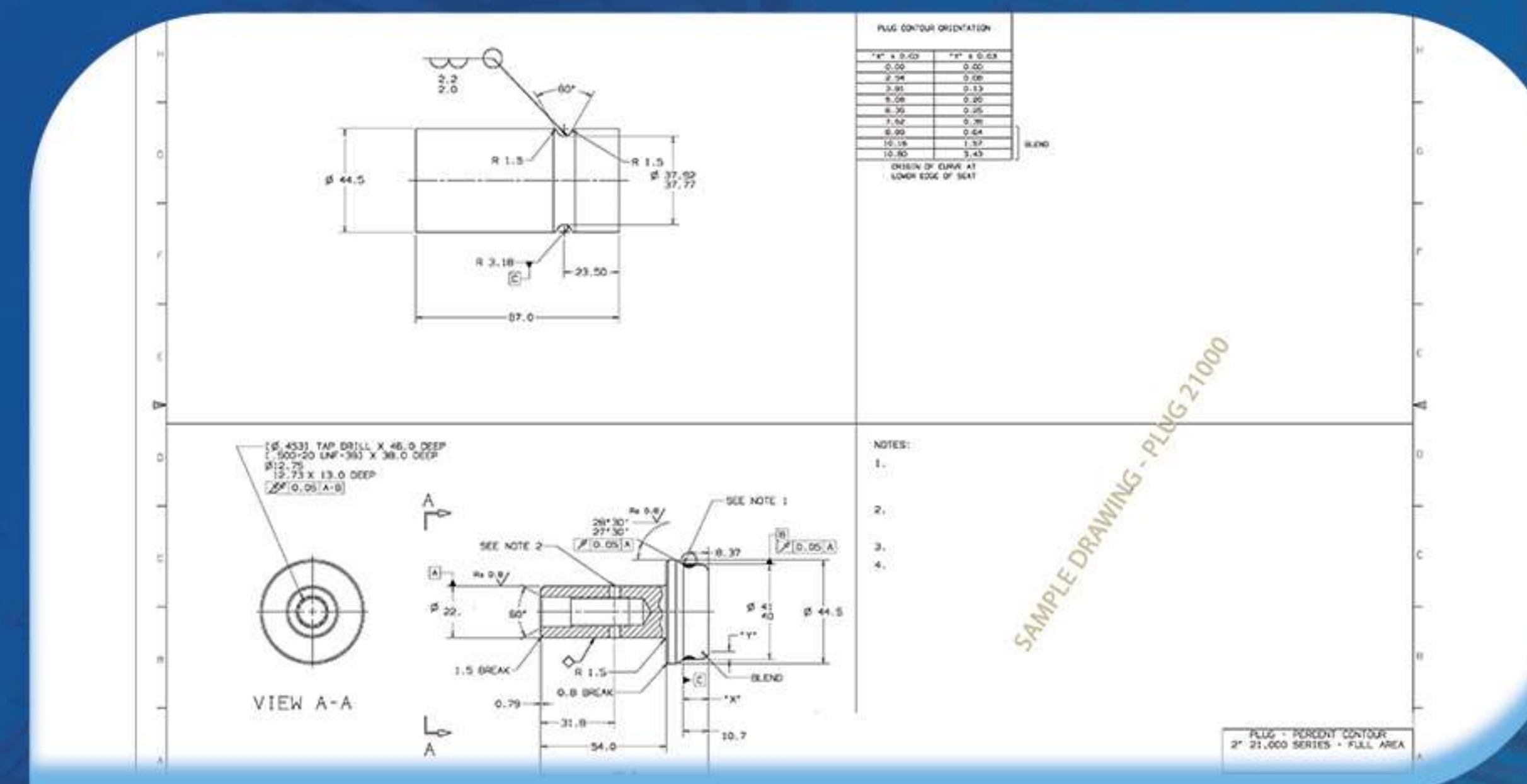
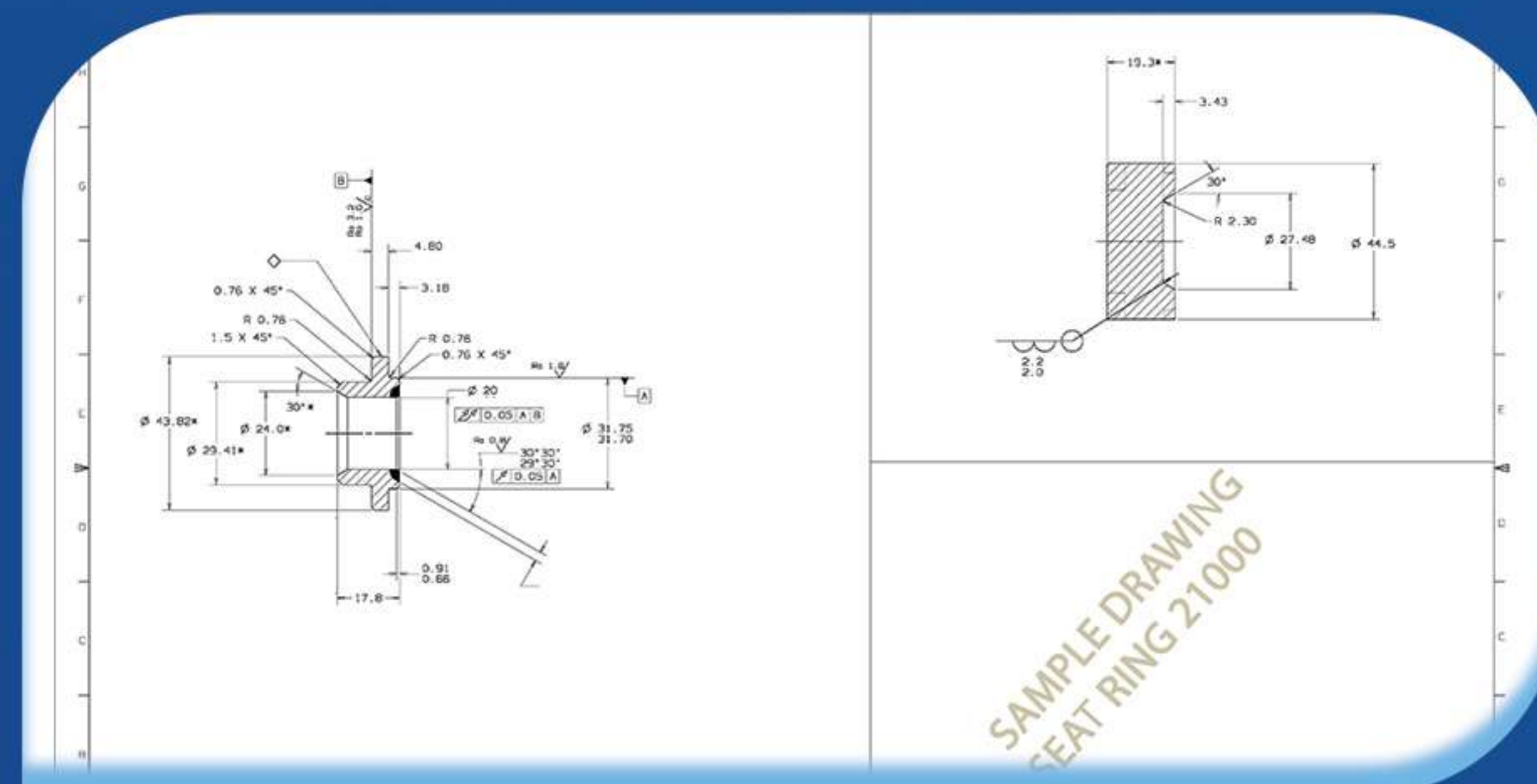
PARTS FOR GLOBE CONTROL VALVE 41005



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PARTS FOR GLOBE CONTROL VALVE 21000



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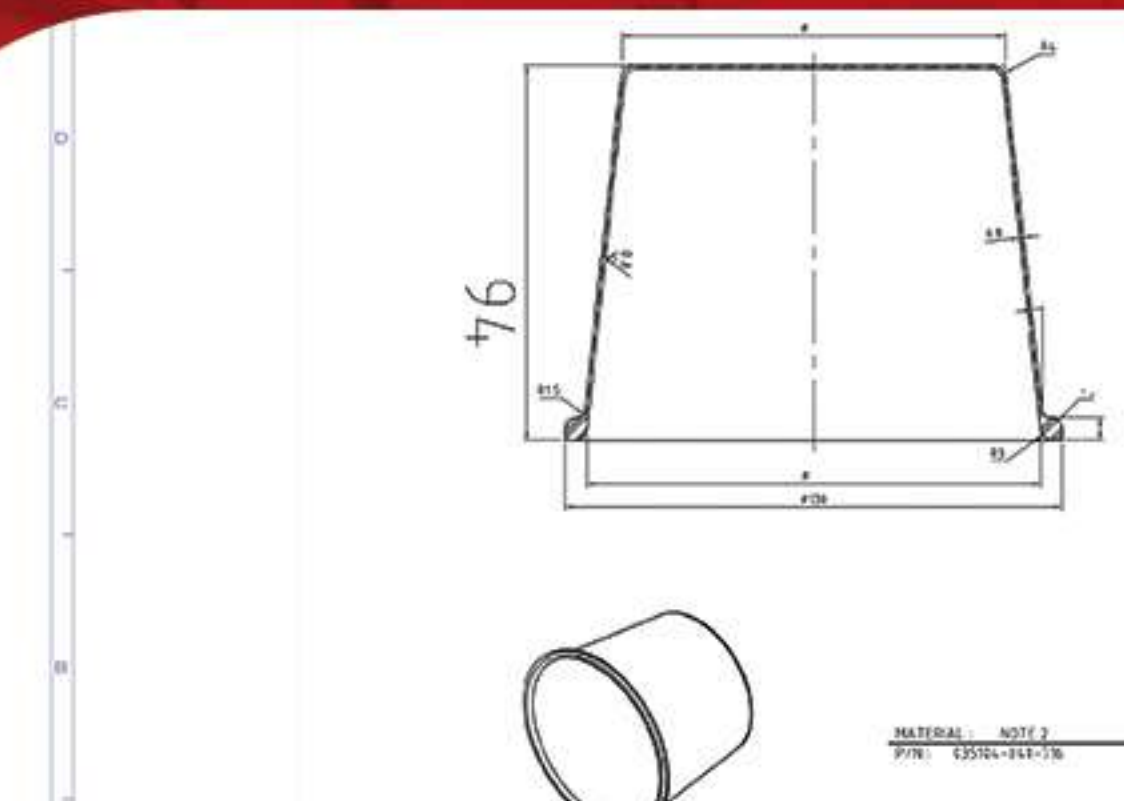
PARTS FOR
AUTOMATIC RECIRCULATION VALVE(ARC) SCHROEDAHL,YARWAY



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PARTS FOR ACTUATORS



SAMPLE DWG DIAPHRAGM
ACTUATOR TYPE 35002 SIZE 4 1/2
MASONELLAN

**ARTA
OFOGH
HAMOON**

Reverse engineering and manufacturing
of petrochemical and refinery parts
and equipment

اصفهان ، شهرک صنعتی امیر کبیر ، خیابان عطا الملک ، مجتمع صنعتی تلاش ، فاز ۷ ، پلاک ۲۱۲ | 

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