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SWRO SERIES



**KRAVEN
BUTTERFLY VALVES**



ITEM 424



**MAGNUM SPLIT
WAFFER**



THOR SPLIT BODY



THOR SPLIT BODY



**AGO PNEUMATIC
ACTUATORS**



**AGO HANDWHEEL
PNEUMATIC
ACTUATORS**



**AGO PNEUMATIC
ACTUATORS EPOXY
PAINTING**



**HEAVY DUTY
PNEUMATIC
ACTUATORS**



LIMIT SWITCH BOX



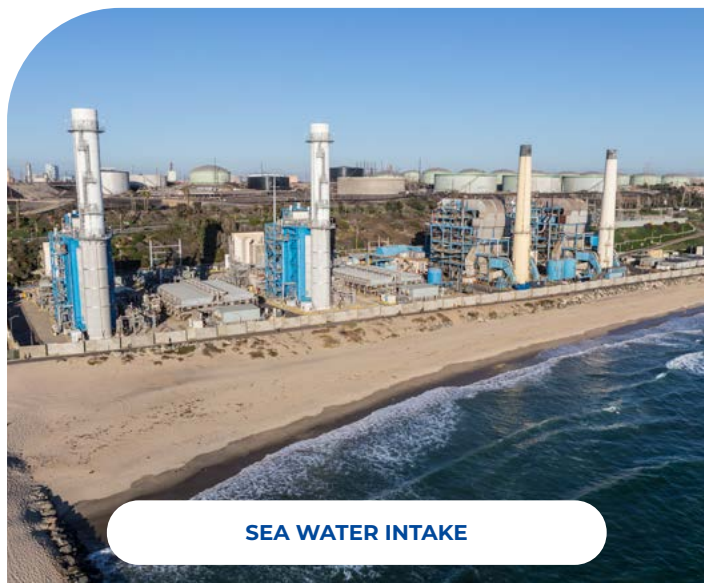
POSITIONERS



MANUAL GEARBOX



APPLICATIONS



SEA WATER INTAKE



PRE-TREATMENT



HIGH PRESSURE PUMPING



REVERSE OSMOSIS



ENERGY RECOVERY DEVICE - ERD



POST-TREATMENT



TECHNICAL DETAILS

KRAVEN

BUTTERFLY VALVES



SPECIFICATIONS

- Size:**
- DN 40 ÷ DN 300 [mm]
 - 1 1/2" ÷ 12" [inch]

- Body material:**
- Cast iron

- Disc material:**
- Cast iron
 - CF8M
 - Bronze aluminium

- Available seats:**
- EPDM
 - NBR
 - FKM
 - PTFE

- End connections:**
- Wafer
 - Lug

- Pressure class:**
- ANSI 150, PN 10-16, PN 6

- Options:**
- Pneumatic actuation
 - Electric actuation
 - Gear box

- Certifications:**
- Ex CE/UKCA
 - Pressure Equipment CE/UKCA

ITEM 424

3 PIECES STAINLESS STEEL BALL VALVES



SPECIFICATIONS

- Size:**
- DN 8 ÷ DN 100 [mm]
 - 1/4" ÷ 4" [inch]

- Body material:**
- CF8M / 1.4408 Stainless steel

- Available seats:**
- PTFE Modified
 - PTFE Glass filled
 - PTFE Carbon filled

- End connections:**
- ISO 7/1
 - NPT (ANSI B1.20.1)

- Max pressure:**
- PN 63
 - 913 PSI

- Options:**
- BW / SW connection
 - Oxygen use (on request)

- Certifications:**
- Ex CE/UKCA
 - Pressure Equipment CE/UKCA

MAGNUM

SPLIT WAFER BALL VALVES



SPECIFICATIONS

- Size:**
- DN 15 ÷ DN 200 [mm]
 - 1/2" ÷ 8" [inch]

- Body material:**
- A105 Carbon steel
 - 316 Stainless steel

- Available seats:**
- PTFE Modified
 - PTFE Glass filled
 - PTFE Carbon filled
 - Devlon
 - PEEK

- End connections:**
- Flanged RF

- Pressure class:**
- ANSI 150-300; PN 16-40
 - ANSI 600; PN 63-100 (DN≤100)

- Options:**
- 3-Ways (DN≤100)
 - Mono-directional ball
 - Locking device
 - Stem Extension
 - Bottom tank
 - Oxygen use (on request)
 - Hydrogen use (on request)

- Certifications:**
- Ex CE/UKCA
 - Pressure Equipment CE/UKCA
 - SIL (up to SIL3)
 - TA Luft & Fugitive Emission
 - Fire Safe



THOR

SPLIT BODY



SPECIFICATIONS



Size:

- DN 15 ÷ DN 200 [mm]
- 1/2" ÷ 8" [inch]



Body material:

- A105 Carbon steel
- 316 Stainless steel
- CF8M s.s. (CL 150-300)



Available seats:

- PTFE Modified
- PTFE Glass filled
- PTFE Carbon filled
- Devlon
- PEEK



End connections:

- Flanged RF (RTJ on request)



Pressure class:

- ANSI 150-300
- ANSI 600; PN 63-100 (DN≤100)
- ANSI 900-1500 (DN≤50)



Options:

- 3-Ways (DN≤100)
- Reduced bore
- Mono-directional ball
- Locking device
- Stem Extension
- Oxygen use (on request)
- Hydrogen use (on request)



Certifications:

- Ex CE/UKCA
- Pressure Equipment CE/UKCA
- SIL (up to SIL3)
- TA Luft & Fugitive Emission
- Fire Safe

THOR

SPLIT BODY



SPECIFICATIONS



Size:

- DN 15 ÷ DN 100 [mm]
- 1/2" ÷ 4" [inch]



Body material:

- A105 Carbon steel
- 316 Stainless steel
- CF8M s.s. (CL 150-300)



Available seats:

- PTFE Modified
- PTFE Glass filled
- PTFE Carbon filled
- Devlon
- PEEK



End connections:

- Flanged RF (RTJ on request)



Pressure class:

- ANSI 600 / PN 63-100 (DN≤100)
- ANSI 900-1500 (DN≤50)



Options:

- Reduced bore
- Mono-directional ball
- Locking device
- Stem Extension
- Oxygen use (on request)
- Hydrogen use (on request)



Certifications:

- Ex CE/UKCA
- Pressure Equipment CE/UKCA
- SIL (up to SIL3)
- TA Luft & Fugitive Emission
- Fire Safe



ALUMINIUM PNEUMATIC ACTUATORS



SPECIFICATIONS



Type:

- Scotch yoke



Nominal torque:

- DA (Double acting):
8 Nm ÷ 8000 Nm
70 in-lbs ÷ 70806 in-lbs
- SR (Spring return):
15 Nm ÷ 4000 Nm
133 in-lbs ÷ 35403 in-lbs



Size:

- DA 8 ÷ DA 8000
- SR 15 ÷ SR 4000



Body material:

- Aluminium



Variations:

- Double acting
- Spring return N.C. - N.O.



Options:

- Low temp. version:
-50°C / -58°F
- High temp. version:
+150°C / +302°F
- Adjustable rotation
- Surface treatments



Certifications:

- Ex CE/UKCA
- SIL (up to SIL3)

AGC[®] HANDWHEEL

PNEUMATIC ACTUATORS WITH INTEGRATED HANDWHEEL



SPECIFICATIONS

✓ Type:

- Scotch yoke

↻ Nominal torque:

- DA (Double acting):
60 Nm ÷ 3840 Nm
531 in-lbs ÷ 33986 in-lbs
- SR (Spring return):
30 Nm ÷ 1920 Nm
265 in-lbs ÷ 16993 in-lbs

↗ Size:

- DANV 60 ÷ DANV 3840
- SRNV 30 ÷ SRNV 1920

🔧 Body material:

- Aluminium

⚙️ Variations:

- Double acting
- Spring return N.C. - N.O.

⚙️ Options:

- Low temp. version:
-50°C / -58°F
- High temp. version:
+150°C / +302°F
- Surface treatments

🏆 Certifications:

- Ex CE/UKCA
- SIL (up to SIL3)

AGC[®]

ALUMINIUM PNEUMATIC ACTUATORS EPOXY PAINTING



SPECIFICATIONS

✓ Type:

- Scotch yoke

↻ Nominal torque:

- DA (Double acting):
8 Nm ÷ 8000 Nm
70 in-lbs ÷ 70806 in-lbs
- SR (Spring return):
15 Nm ÷ 4000 Nm
133 in-lbs ÷ 35403 in-lbs

↗ Size:

- DA 8 ÷ DA 8000
- SR 15 ÷ SR 4000

🔧 Body material:

- Aluminium

⚙️ Variations:

- Double acting
- Spring return N.C. - N.O.

⚙️ Options:

- Low temp. version:
-50°C / -58°F
- High temp. version:
+150°C / +302°F
- Adjustable rotation
- Epoxy paint protection

🏆 Certifications:

- Ex CE/UKCA
- SIL (up to SIL3)

HEAVY DUTY

HEAVY DUTY PNEUMATIC ACTUATORS



SPECIFICATIONS

✓ Type:

- Scotch yoke

↻ Nominal torque:

- 2000 Nm ÷ 32000 Nm
17700 in-lbs ÷ 283224 in-lbs

↗ Size:

- 085 - 100 - 130

🔧 Body material:

- Carbon steel

⚙️ Variations:

- DA: Double acting
- SR: Spring return N.C. - N.O.

⚙️ Options:

- Manual hydraulic override
- Special painting

🏆 Certifications:

- Ex CE/UKCA
- SIL (up to SIL3)



LIMIT SWITCH BOX



SPECIFICATIONS

✓ **Type:**

- Electromechanical
- Magnetic
- Inductive

📄 **STD:**

- VDI/VDE 3845 (EN15714-3)

🔧 **Body material:**

- Aluminium
- Stainless steel
- Plastic

⚡ **Electrical connections:**

- M20x1.5
- 1/2" NPT-F

🌡️ **Temperature range:**

- -40°C ÷ +80°C
- -40°F ÷ +176°F

🛡️ **IP Grade:**

- IP 65 ÷ 67

🔧 **Mounting kit:**

- Included

🏆 **Certifications:**

- Ex CE/UKCA
- IEC Ex 60079
- SIL (up to SIL3)
- More on request

POSITIONERS



SPECIFICATIONS

✓ **Type:**

- Pneumatic
- Electropneumatic
- Smart hart

🔧 **Body material:**

- Aluminium

⚡ **Pneumatic connections:**

- 1/4" NPT-F

⚡ **Electrical connections:**

- M20x1.5

🕒 **Supply pressure:**

- Up to 7 barg (105 psig)

⚡ **Electrical input:**

- 4-20 mA (electromechanical / smart hart)

🌡️ **Temperature range:**

- -40°C ÷ +80°C
- -40°F ÷ +176°F

🛡️ **IP Grade:**

- IP 65

🔧 **Mounting kit:**

- Included

⚙️ **Options (on request):**

- With feedback signal
- Body material in 316 S.S.
- IP 66 Grade
- T. range up to +100°C / +212°F

🏆 **Certifications:**

- Ex CE/UKCA

MANUAL GEARBOX



SPECIFICATIONS

✓ **Type:**

- Declutchable
- Gear Operators

🔄 **Nominal torque:**

- 150 Nm ÷ 8300 Nm
- 1330 in-lbs ÷ 73460 in-lbs

🔧 **Body material:**

- Cast iron painted





Our history



Other applications



Sustainability



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