Аткоматіс

30400 Series

Bronze, Semi-direct Lift, Pressure 0 to 1500 psig (104 bar) Medium Pressure Valve, Configurable for Variety of Fluid Applications



Features

| <u>i catales</u> | |
|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Semi-direct lift action for operation down to zero pressure differential | Removable 316 stainless steel body inserts (stainless steel trim) |
| Operation up to 1500 psig (104 bar) | Available in normally closed configuration from ¼ ["] |
| Media temperatures from –423° F to +500° F (-253° | to 3 [°] NPT ports |
| C to +260° C) | • Available in normally open configuration from 1/4" to |
| Will handle fluids with viscosity up to 150 SUS | 1½″ NPT ports |
| Bronze valve material (naval M bronze) | British BSPT ports available |
| • Suitable for use with wide variety of fluid including: | Full ported valves |
| air, gasses, liquids, hydraulic fluids, steam, cryogenic | Normally closed Cv from 2.7 to 71 |
| fluids, and fluids not harmful to bronze | Normally open Cv from 2.7 to 21 |
| Heaviest duty and most rugged construction | Class H coils are standard |
| Optional seat materials of Teflon [®] , Kel-F [®] , Buna N, | Coils housings available in NEMA 1 (standard), |
| Viton [®] , EPR, or metal (316 stainless steel pilot and/ | NEMA 4 (waterproof), NEMA 7 (explosion-proof for |
| or brass piston seat) depending on fluid type and | hazardous locations), and combination NEMA 4 & 7 |
| pressure | Manual opening and throttling devices are available |
| Body seal materials of Teflon [®] , Viton [®] , Buna N, or EPR | as options (requires aluminum piston on $2\frac{1}{2}$ & 3") |
| | Valve position indicator option is available |
| | |

Circle Seal Controls

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30400 Series

Operational Pressures (No minimum pressure differential)

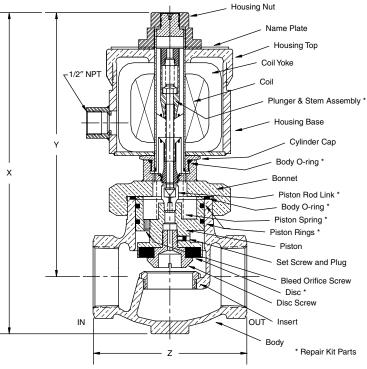
Normally closed, 1/4"-1/2"

| | , - | | | | | | |
|----------|------------------------|-------------------|-----------|---------------------|------------|-------|-----|
| GA | SES | LIQUIDS | TO 40 SUS | LIQUIDS O | /ER 40 SUS | STE | AM |
| AC | DC | AC | DC | AC | DC | AC | DC |
| 1500 | 1500 | 1500 | 1000 | 1500 | 1000 | 200 | 200 |
| Normally | closed, ¾ | ~1½″ | | | | | |
| GASES | | LIQUIDS TO 40 SUS | | LIQUIDS OVER 40 SUS | | STEAM | |
| AC | DC | AC | DC | AC | DC | AC | DC |
| 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 200 | 200 |
| Normally | closed, 2 ["] | -3″ | | | | | |
| GASES | | LIQUIDS TO 40 SUS | | LIQUIDS OVER 40 SUS | | STEAM | |
| AC | DC | AC | DC | AC | DC | AC | DC |
| 500 | 500 | 500 | 350 | 500 | 350 | 200 | 100 |
| Normally | open, ¼″– | 1/2″ | | | | | |
| GASES | | LIQUIDS | FO 40 SUS | LIQUIDS O | /ER 40 SUS | STE | AM |
| AC | DC | AC | DC | AC | DC | AC | DC |
| 1500 | 1500 | 1500 | 1500 | 1500 | 1,250 | 200 | 200 |
| Normally | open, ¾″– | 11⁄2″ | | | | | |
| GASES | | LIQUIDS TO 40 SUS | | LIQUIDS OVER 40 SUS | | STEAM | |
| AC | DC | AC | DC | AC | DC | AC | DC |
| 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 200 | 200 |

NOTE: Normally open valves are rated for intermittent duty only on 30000 Series valves and are not recommended for cryogenic service above 50 psig.

NOTE: Rubber seats are limited to 500 psi.

Dimensions, Shipping Weights, and Cv Flow Factors



Normally open 1½["] 32460 valve, shown with explosion-proof NEMA 7 coil, housing and AC coil.

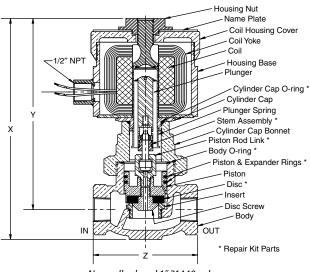
30400 Series Normally Open Bronze

| CATALOG NUM. PREFIX | PIPE SIZE | MAIN SEAT ORIFICE | х | Y | z | SHIPPING WEIGHT <i>(Ibs)</i> | Cv |
|------------------------|-----------|----------------------|-------|---------|---------|---------------------------------|------|
| 32400 | 1⁄4″ | 3/8″ | 85⁄8″ | 7¾″ | 211/16″ | 10 | 1.4 |
| 32410 | 3/8″ | 3/8″ | 85⁄8″ | 7¾″ | 211/16″ | 10 | 2.7 |
| 32420 | 1⁄2″ | 1⁄2″ | 8¾″ | 713/16″ | 3″ | 10 | 3.5 |
| 32430 | 3⁄4″ | 1″ | 93⁄8″ | 81/16″ | 4″ | 12 | 8.4 |
| 32440 | 1″ | 1″ | 9¾″ | 81/16″ | 4″ | 12 | 9.5 |
| 32450 | 1¼″ | 11⁄2″ | 10½″ | 81⁄8″ | 51/16″ | 26 | 19.5 |
| 32460 | 11⁄2″ | 11⁄2″ | 10½″ | 81⁄8″ | 51⁄16″ | 26 | 21.0 |

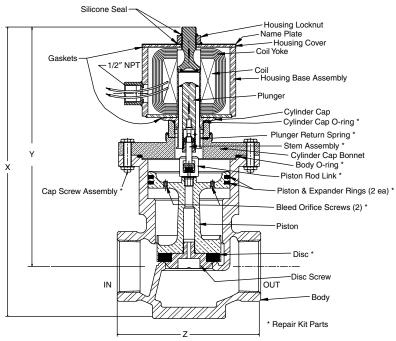
66 ATKOMATIC Solenoid Valves

30400 Series

Dimensions, Shipping Weights, and Cv Flow Factors



Normally closed 1" 31440 valve, shown with explosion-proof NEMA 7 coil. Housing an AC coil, and a soft pilot seat.



Normally closed 2" 31570 valve, shown with NEMA 4 coil. Housing an AC coil, and a soft pilot seat.

30400 Series Normally Closed Bronze

| CATALOG NUM. PREFIX | PIPE SIZE | MAIN SEAT ORIFICE | х | Y | z | SHIPPING WEIGHT <i>(Ibs)</i> | Cv |
|------------------------|-----------|----------------------|---------|---------|---------|---------------------------------|------|
| 31400 | 1⁄4″ | 3/8″ | 71⁄8″ | 7″ | 211/16″ | 10 | 1.4 |
| 31410 | 3/8″ | 3/8″ | 71⁄8″ | 7″ | 211/16″ | 10 | 2.7 |
| 31420 | 1⁄2″ | 1⁄2″ | 8″ | 71⁄16″ | 3″ | 10 | 3.5 |
| 31430 | 3⁄4″ | 1″ | 85⁄8″ | 7¾″ | 4″ | 12 | 8.4 |
| 31440 | 1″ | 1″ | 8⁵⁄8″ | 7¾″ | 4″ | 12 | 9.5 |
| 31450 | 1¼″ | 11⁄2″ | 101⁄/8″ | 8¼″ | 51/16″ | 26 | 19.5 |
| 31460 | 11⁄2″ | 11⁄2″ | 101⁄/8″ | 8¼″ | 51/16″ | 26 | 21.0 |
| 31570 | 2″ | 2″ | 13³⁄16″ | 105/16″ | 61⁄8″ | 38 | 43.0 |
| 31580 | 21⁄2″ | 3″ | 14¼″ | 103⁄/8″ | 81⁄2″ | 76 | 63.0 |
| 31590 | 3″ | 3″ | 14¼″ | 103⁄8″ | 81⁄2″ | 76 | 71.0 |

30400 Series

How to Order

| 3 <u>x</u> <u>x</u> <u>x</u> 0 – <u>x</u> <u>x</u> <u>x</u> <u>x</u> <u>x</u> NORMAL POSITION OF VALVE (DE-ENERGIZED) 1 Normally closed 2 Normally open VALVE MATERIAL & CYLINDER CAP STYLE 4 Bronze & threaded cylinder cap 5 Bronze & flanged cylinder cap | OPTIONS P Position indicator M Manual opening T Manual throttling COIL HOUSING E Explosion-proof S Standard W Waterproof |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CONNECTION SIZES 0 $\frac{1}{4}$ " 1 $\frac{3}{8}$ " 4 1" 7 2" 2 $\frac{1}{2}$ " 5 $\frac{1}{4}$ " 8 $\frac{2}{2}$ " 3 $\frac{3}{4}$ " 6 $\frac{1}{2}$ " 9 3" VOLTAGE AC/60 Hz 0 AC/50 Hz or DC voltage 1 100 VAC 3 200 VAC 5 460 VAC 2 115 VAC 4 230 VAC 5 460 VAC 2 115 VAC 4 230 VAC 5 460 VAC VOLTAGE AC/50 Hz 0 AC/60 Hz or DC voltage 1 110 VAC 2 220 VAC VOLTAGE DC 0 AC voltage 1 12 VDC 3 48 VDC 5 250 VDC CONNECTION TYPE P NPT J British pipe thread MAX. OPERATING PRESSURE (psig) A 75 E 250 I 750 B 100 F 300 J | C Combined water- & explosion-proof FLUID MEDIA TYPE 1 Gas 2 Liquid up to 40 SUS 3 Liquid from 41 SUS to 150 SUS 4 Steam 5 Cryogenic SEAL MATERIAL A Teflon® B Buna N C Viton® D EPR SEAT/PILOT MATERIAL A TFE pilot & TFE disc B Buna N pilot & Buna N disc C Viton® pilot & Viton® disc D EPR pilot & EPR disc E Kel-F® pilot & Kel-F® disc F Metal pilot & TFE disc H Metal pilot & Buna N disc I Metal pilot & Buna N disc J Metal pilot & EPR disc K Metal pilot & EPR disc K Metal pilot & EPR disc |

Note: For PED applications, the 30400 Series is only approved for room temperature applications and at a lower pressure. Please consult the factory.

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