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•Model Numbering System

Valve type	Actuator type	End Connection	Body Material	Trim	Seat
Ball Valve	CS : Cylindertype	1 : RF	0 : A351, CF8	0 : A351, CF8	0 : None
T : 2-way ball type	Spring return	2 : lugged	1 : A351, CF3	1 : A351, CF3	1 : EPDM
F : 3-way ball type		3 : Wafer	2 : A351, CF8M	2 : A351, CF8M	2 : Buna-N
J : Segment ball type	CD : Cylinder type	4 : FF	3 : A351, CF3M	3 : A351, CF3M	3 : Viton
	Double action	8 : Weld	4 : A126, CL.B	4 : A182, F316	4 : 316SS
Butterfly type		9 : Other	5 : A536	5 : Al Bronze	5 : Graphite
R : Rubberseat	DD : Diaphragm		6 : A216, WCB	6 : Zirconia	6 : PTFE
butterfly type	Dir. Action		7 : A351, CG8M	Ceramic	7 : RTFE
C : High-Cycle	DR : Diaphragm		8 : Hastelloy C	7 : A351, CG8M	8 : Incoloy 825
butterfly type	Rev. Action		9 : Other	8 : Hastelloy C	9 : Other
H : High-Performance				9 : Other	
butterfly type	EM : Electric motor				

Specification

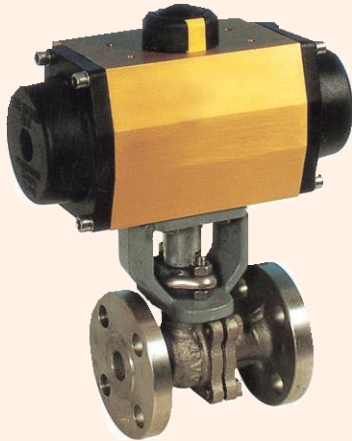
- Body Size 25A ~ 1600A(1B ~ 64B)
- Body Style Ball, Segment, Butterfly
- Pressure Rating PN 10-100 / ASME 150-600 / KS 10K-63K / ANSI 150LB-2500LB
- End Connection Flanged, Wafer, lugged, Weld, etc
- Seat Leakage Class 1V, V-V1, V
- Trim Design Full bore, Reduced bore
- Standard Materials
- Body A351 CF8, A351 CF8M, A351 CF3M, A216 WCB, A126 CL.B, A536
- Trim A351 CF8, A351 CF8M, A351 CF3M, A351 CG8M, A182 F316, AI-Bronze
- Stem 304SS, 316SS, 431SS, 630SS
- Actuator Cylinder type Spring return
Cylinder type Double action
Diaphragm type Dir. action
Diaphragm type Rev. return
Electric Motor
- Options Positioner, Solenoid Valve,
Limit Switch, Air set,
Others.





Pneumatic Control Ball Valves

•2-Way Ball type Control Valves



Model No. : TCS1006 – Spring return Operation
TCD1006 – Double action Operation

Design Description :

Actuators	Cylinder
Valve Size	15A ~ 400A (1/2B ~ 16B)
Pressure Rating	•JIS 10K ~ 63K •ANSI 150LB ~ 2500LB
Connection	Flanged , Welding
Temperature	-50°C~220°C
Material	•Body : CF8, CF8M, WCB •Ball : CF8, CF8M •Seat : PTFE , RTFE , Metal Seat

•Q-Trim Ball type Control Valves

Model No. : TCS1224 – Spring return Operation
TCD1224 – Double action Operation

Design Description :

Actuators	Cylinder
Valve Size	25A ~ 400A (1B~ 16B)
Pressure Rating	•PN 10 ~ 100 •ASME 150 ~ 600
Connection	Flanged, Weldends
Temperature	-200 to + 600°C
Material	•Body : CF8M, WCB •Ball : CF8M •Seat : Metal Seat



•Segment Ball type Control Valves

Model No. : JCS1274 – Spring return Operation
JCD1274 – Double action Operation

Design Description :

Actuators	Cylinder & Diaphragm
Valve Size	25A ~ 150A (1B~ 10B)
Pressure Rating	•PN 10 ~ 64 •ASME 150 ~ 600
Connection	Flanged, Wafer
Temperature	-200 to + 425°C
Material	•Body : CF8M, CG8M, WCB, Hastelloy C, Titanium •Segment : SIS2324(ANSI 329), Hastelloy C, CG8M, Titanium+Ceramic coating •Seat : Metal Seat, PTFE





Pneumatic Control Butterfly Valves



• Rubber Seat Butterfly type Control Valves

Model No. : RCS3421 – Spring return Operation
RCD3421 – Double action Operation

Design Description :

Actuators	Cylinder
Valve Size	50A ~ 300A (2B ~ 12B)
Pressure Rating	• JIS 10K • ANSI 150LB
Connection	Wafer
Temperature	-40°C ~ 121°C
Material	• Body : A126 CL.B, CF8, CF8M • Disc : CF8M, Al-Bronze • Seat : EPDM, Buna-N, PTFE

• High performance Butterfly type Control Valves

Model No. : HCS3228 – Spring return Operation
HCD3228 – Double action Operation

Design Description :

Actuators	Cylinder
Valve Size	80A ~ 1600A (3B ~ 64B)
Pressure Rating	• PN 10 ~ 100 • ASME 150 ~ 600
Connection	Wafer, Lugged
Temperature	-200 to + 600°C
Material	• Body : CF8M, WCB, CG8M • Disc : CF8M • Seat : Stainless steel ASTM B424 (Incoloy 825)

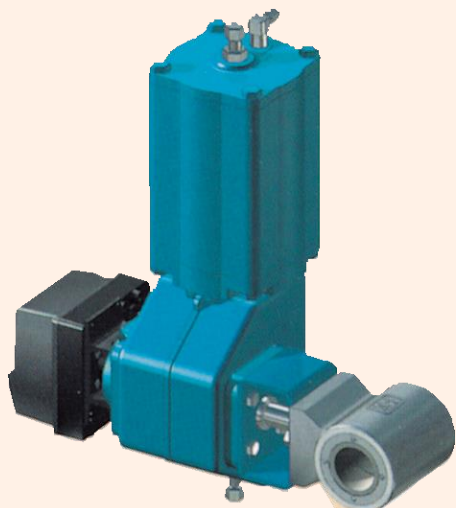


• Ceramic Ball type Control Valves

Model No. : TCS3265 – Spring return Operation
TCD3265 – Double action Operation

Design Description :

Actuators	Cylinder
Valve Size	25A ~ 150A (1B ~ 6B)
Pressure Rating	• PN 10 ~ 40 • ASME 150 ~ 300 • JIS 10K ~ 30K
Connection	Wafer, Lugged
Temperature	-40 to + 200°C
Material	• Body : A351 CF8M • Ball : Zirconia Ceramic, PSZ • Seat : Graphite, PTFE

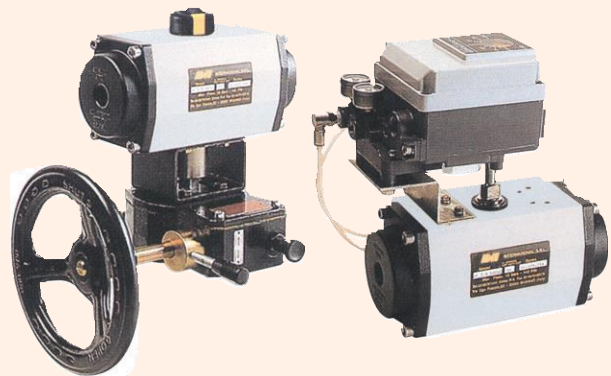




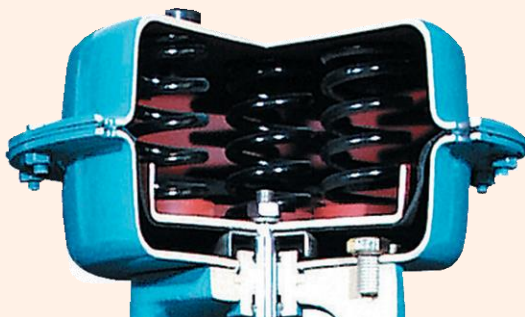
Pneumatic Actuators

The moving distance of stem of valve is convert to Actuator, in case of throttling, shell be 3-way or 4-way valve.
Using air should be clean not be humidity

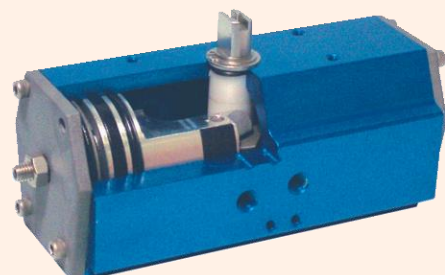
1. Type : Piston type, Rack & Pinion, Diaphragm
2. Operating : Air to open, Normal close
Air to close, Normal open
Air to open, Normal close
3. Operating Pressure : Maximum 0.7Mpa(7kg - f/cm²)
4. Air signal pressue : 20-100kpa(0.2-1.0kg - f/cm²)
5. Position of valve stem : Vertical-up, Vertical-down,
Horizontal or other switch
6. Cylinder Operation Fluid : Air, Water, Fluid
7. Maximum & Minimum Cylinder pressure and operating pressure
8. Required Speed
9. Valve size, Operating pressure
P-T Rating, Maximum Difference
10. Accessory
Solenoid valve, Limit switch
11. Supplying air pressure
12. Using Fluid : temprature, kinde, Operating
pressure and speed
13. Requirement : Fail to open or Fail to close
14. Manufacturers
 - (1) Scotch Yoke type : Dong Yang FNC,
 - (2) Cylinder type : Dong Yang FNC
 - (3) Diaphragm type : Dong Yang FNC.



Pneumatic Rotary Acturators



Diaphragm Acturators



Double Acting type/ Spring type Acturators

Outsourcing Actuators (Floor stand type) from well-known manufacturers and assembling to valves in order for efficient operation with electric signal is converted to electro motor for which is fast, safe and efficient operation, and can be remote controlled and automatification.

1. Power : 3Phase, AC Power : AC200/220V, AC400/440, 50/60Hz
2. Operation : Single Phase AC : AC100/110V, AC200/220V, 50/60Hz
3. Motor (1) Application : indoor or outdoor
 (2) Kind : Water-proof, Dust-proof, Explosion-proof, increased safety Explosion-proof
 (3) Pole : 4Poles
 (4) insulation : E
4. Controller (1) Construction : Outdoor
 (2) Conversion way : way of returning to manual of convert switch
5. Stem Position : Vertical-up, Vertical-down, Horizontal or other place
6. Sequence : The number of Limit switch
7. The number of control stations
8. Required speed and Cycling stations
 Gate valve : the hour of rising of 300mm
 Globe valve : rising up to 100mm/minute
9. Valve size, using temperature P-T Rating, Manual Operation : handwheel
10. Fluid : temperature, kind, operating pressure and speed
11. Requirement : Fail to open or Fail to close
12. Manufacturers



i-tork Actuators 1TQ Series

Smart products



Electropneumatic Positioner



Neles Solar™
Type Limit switch



Intelligent valve controller



Neles Eclipse™
Type Limit switch

