



CE SIL3 Ex

NUTORK[®]

Actuators & Valves

Metal Seated Ball Valve O型硬密封球阀



NUTORK CORPORATION

Metal Seated Ball Valve -Description

NUTORK metal seated ball valve is an bidirectional flanged (DN15~DN600) valve which is designed for on/off and modulating control in a quarter-turn valve in general industrial service applications. The design of the ball and seat assures non-clogging shut-off on suspended solids in the industries of Pulp & Paper、Wastewater Treatment Plants、Chemical Plants、Mining --- etc.

NUTORK O型硬密封球阀为双向流法兰连接阀门(DN15~DN600)、其设计提供关断及调节型控制使用于一般工业应用,可动式双向密封阀座及阀芯的设计、具有强劲的切断能力,适用于介质中含有悬浮颗粒及纤维,因此本产品广泛应用于,造纸、污水处理厂、化纤、采矿 --- 等不同工业应用

Design Features-设计特性:

Body(阀体):

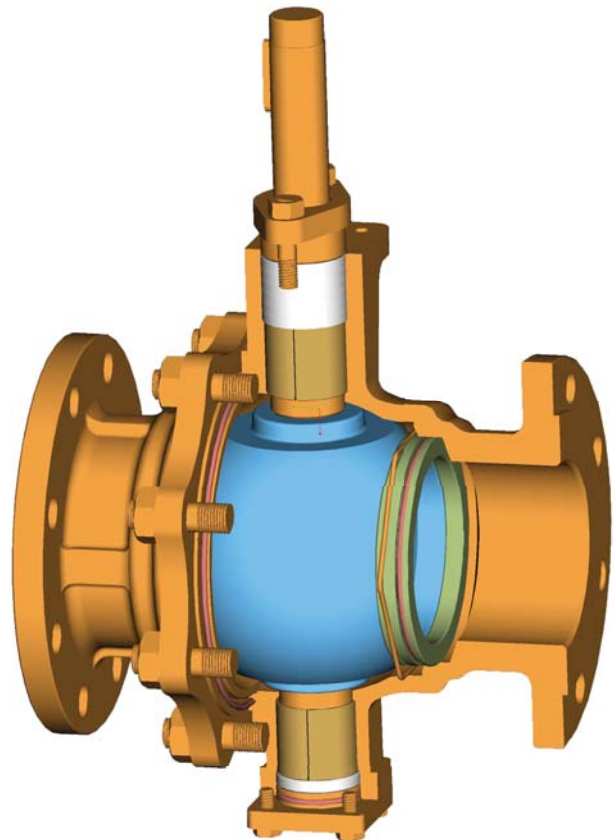
Cast monoblock body with and flanged valves.
Detachable flange ring with an easily replace seat, seal and seat ring. To minimize the maintenance.

一体化法兰式设计阀体,可拆卸式法兰盖,使得维修简便更换阀座,密封圈及阀座弹簧.

Self-Adjusting Metal Seat(可移动密封阀座):

The precisely engineered seat design assures that fluid does not directly impinge on the seat surface. The high performance seat ring and seal ensures correct contact between the seat and segment at all times, Seating capabilities are totally unaffected by pipeline pressure. Soft PTFE seat and metal seat are optional.

高精度的阀座设计确保介质不直接冲击阀座表面,高性能预紧力弹簧使得阀座与阀芯保持紧密,可对于长期使用中因密封磨损提供自动补偿作用,并可依据不同温度、介质选用软密封(PTFE)或硬密封阀座.



Trunnion Bearings(固定式轴承):

Both trunnion bearings are located inside the valve body which provides high stability, low operation torque. The lower shaft bearing inside the body provides a larger bearing area, lower bearing loads and longer bearing life.

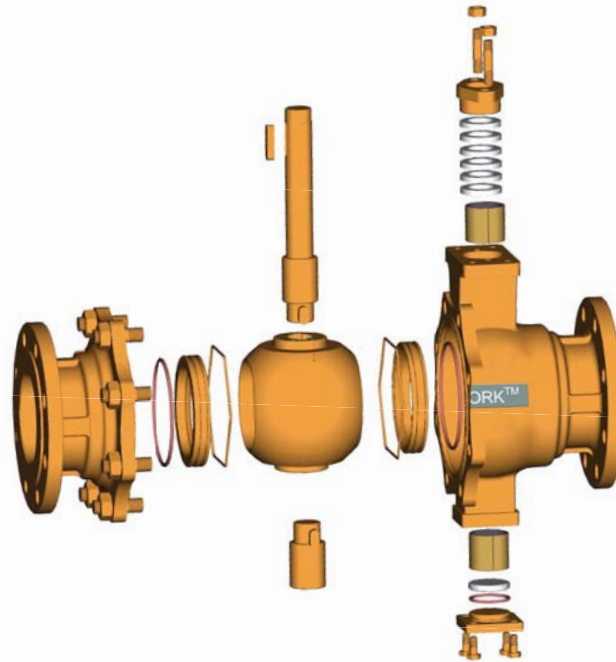
O 型球阀采用上下阀体两端固定式轴承设计提供高稳定性、低操作扭矩. 大面积下轴承设计提供高承载能力及提高使用寿命.

Full Port Designed Disc(全通径阀芯):

Metal seated ball valve is a full port designed disc.

O 型球阀采用全通径设计,因而流体阻力可忽略不计.

Metal Seated Ball Valve -Parts List



Item (序号)	Description (名 称)	Material (材 料)	Optional (其他选用材料)
1	Body - 阀体	WCB,304SS,316SS,316LSS	
2	Disc - 阀芯	304SS,316SS,316LSS+ Chrome Plated(硬铬镀层)	
3	Blind Cap - 底盖	304SS,316SS	
4	O-Ring(Bottom Stem) - 密封圈	Viton,PTFE	
5	Seal Plate - 密封盖	PTFE	
6	Bearing - 轴承	PTFE,PTFE+SS	
7	V Shape Packing - V 型填料	PTFE,PTFE+15% Fiber	
8	Gland Follower - 填料压盖	304SS,316SS	
9	Lock Spring - 阀座弹簧	316SS,Inconel	
10	Seat - 阀座	304SS,316SS,316LSS+ Chrome Plated(硬铬镀层)	Stellited Treatment (司钛莱堆焊处理)
11	Back Seal - 阀座密封圈	Viton,PTFE,PTFE+SS	
12	Bottom Stem - 下阀杆	304SS,316SS	
13	Set Pin(Disc) - 阀芯固定销	304SS,316SS	
14	Upper Stem - 上阀杆	304SS,316SS	
15	Set Pin(Upper Stem) - 上阀杆固定销	304SS,316SS	

Valve Size(阀门口径): DN15 ~ DN600

Nominal Pressure(公称压力): DIN PN10~PN64 及 ANSI Class 150/300LB(ANSI 16.5)

Connection(连接方式): Flange Type(法兰式) – DN15~DN600

Operation Temperature(操作温度):

Seal(密封圈):

1)Soft Seal(软密封):150℃(Viton)、210℃(PTFE)

2)Metal Seat(硬密封) > 250℃

Packing(填料):

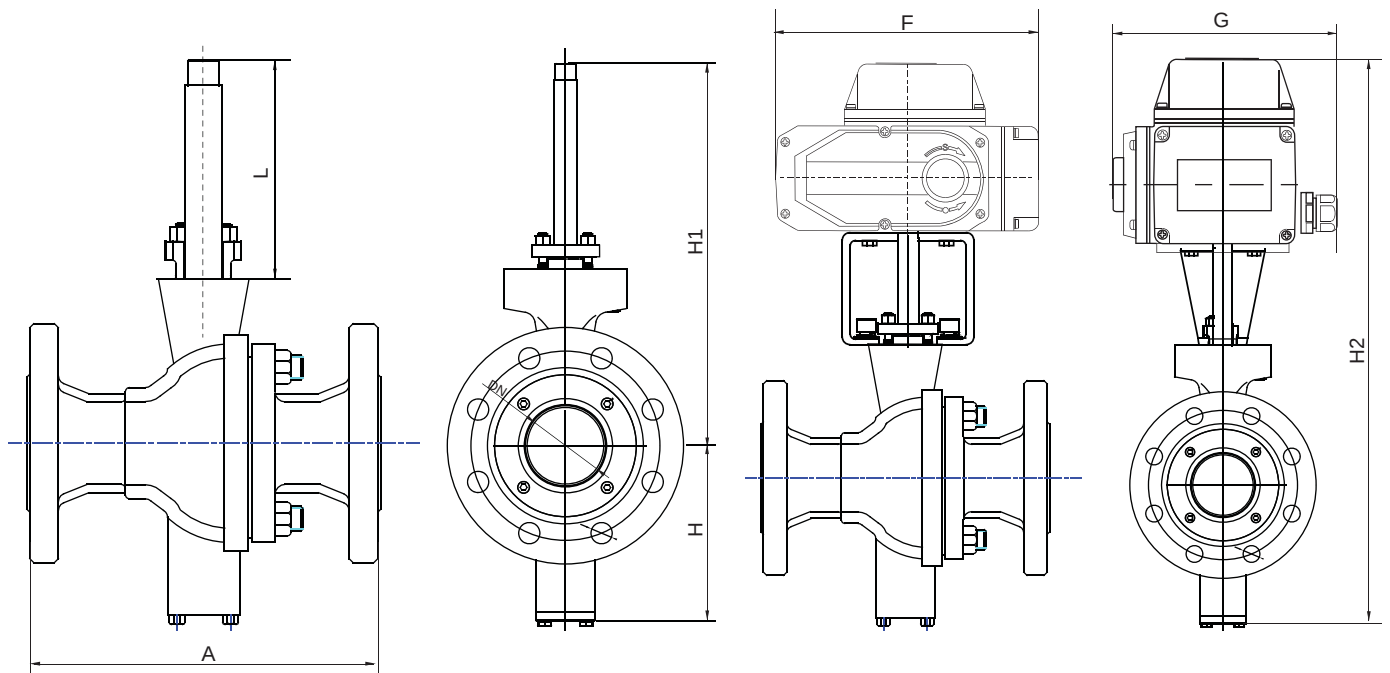
1)PTFE+15% Fiber(PTFE+15%玻璃纤维) : 240℃

2)Graphited(石墨) : 600℃

Remark(备注): The other materials is available upon request(其他材质亦可选用)

Metal Seated Ball Valve -Dimension

Bare Shaft (光杆)with Electric Actuator(电动O型球阀)



Dimension Table(外形尺寸表)

公称通径 DN	A	H	H1	L	电动 O型球阀		
					F	G	H2
25	170	90	202	116	158	140	390
32	170	94	205	115	207	147	432
40	170	97	209	116	207	147	430
50	178	112	233	125	207	147	450
65	220	124	248	128	265	182	495
80	250	130	260	130	265	182	500
100	280	156	295	132	265	182	588
125	320	173	370	133	265	182	632
150	350	209	313	139	265	182	704
200	396	244	405	155	380	240	814
250	530	293	495	190	380	240	920
300	600	375	539	210	380	240	1026
350	670	397	650	243	380	240	1125
400	680	448	705	257	380	240	1218

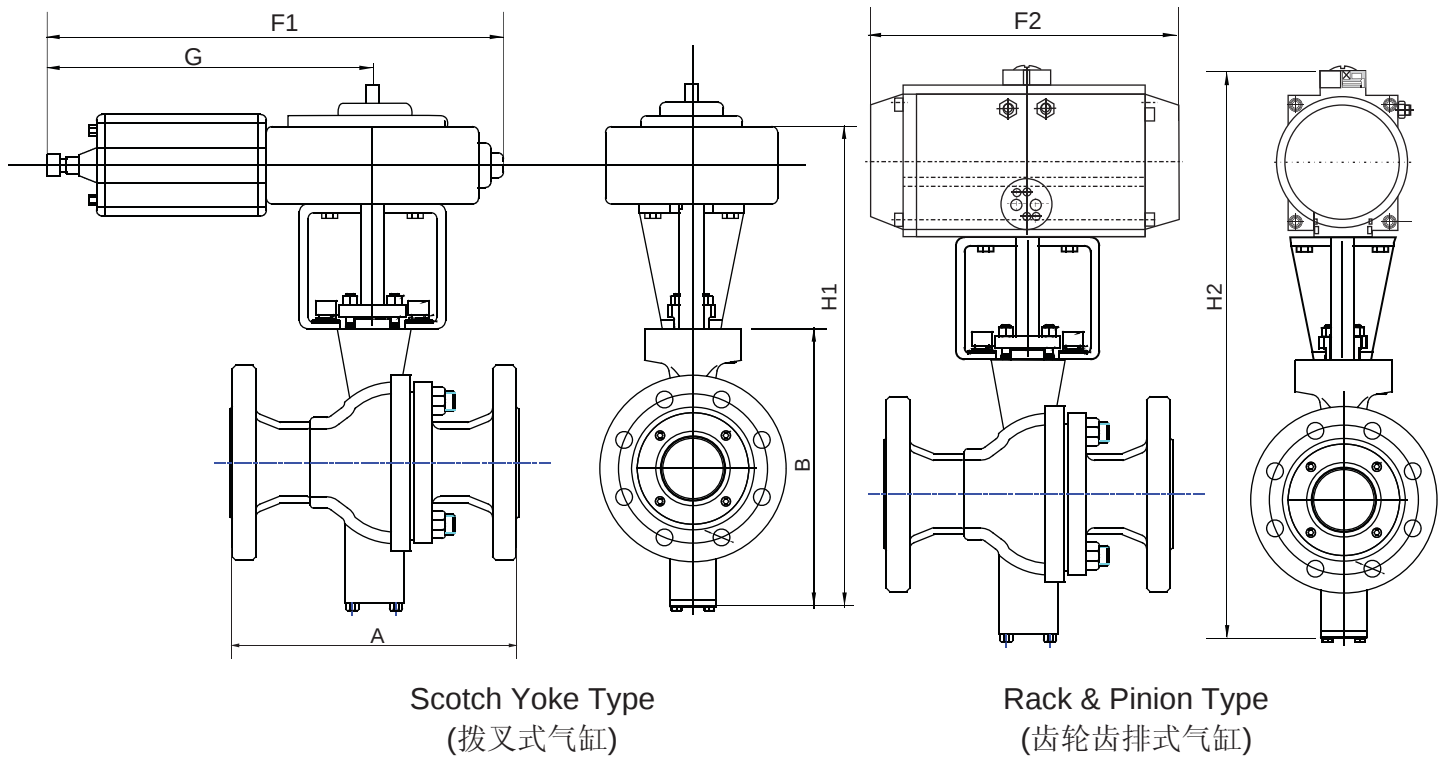
1.All dimension are in mm,Dimensions for reference only,subject to change.

所有尺寸以mm为单位. 所标示尺寸仅供参考,本公司保留更改权利

2.Please contact factory for other dimensions upon request. 请联络工厂,如需要其他外形尺寸

Metal Seated Ball Valve -Dimension

Pneumatic Actuated Metal Seated Ball Valve (气动O型球阀)



Dimension Table (外形尺寸表)

unit:mm

DN	A	B	Scotch Yoke Type (拨叉式气缸)			Rack & Pinion Type (齿轮齿排式气缸)	
			F1	G	H1	F2	H2
15	170	176	375	170	348	178	410
20	170	176	375	170	348	178	410
25	170	176	375	170	348	178	410
32	170	184	375	200	360	178	454
40	170	190	375	207	365	178	497
50	178	220	375	207	370	214	562
65	220	244	375	221	425	246	584
80	250	259	435	243	457	295	640
100	280	318	435	253	515	340	706
125	320	352	435	306	630	398	783
150	350	440	540	346	705	438	919
200	396	494	540	438	765	562	1094
250	530	598	700	524	1030	724	1243
300	600	705	700	582	1110	928	1425
350	670	805	965	646	1200	1033	1697
400	680	898	965	732	1295	1129	1898

1.All dimension are in mm,Dimensions for reference only,subject to change.

所有尺寸以mm为单位.所标示尺寸仅供参考,本公司保留更改权利.

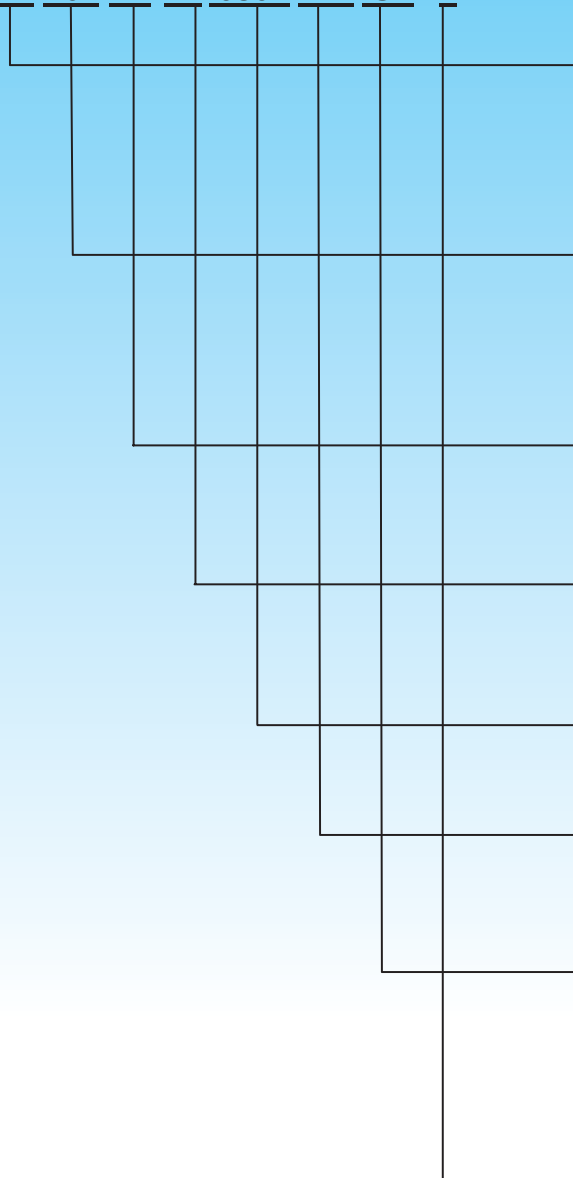
2.Please contact factory for other dimensions upon request. 请联络工厂,如需要其他外形尺寸

3.The actuator type is double acting actuator for the above dimension table. 上述尺寸表以双作动气缸为基础

Metal Seated Ball Valve - Order Information

Order Information (订购选型):

M - 10 - A - 1 - 050 - M - C - 2



执行器型式 - **Actuator Type:**

M: 手动 - Manual Operator
D: 气动(双作动) - Double Acting Actuator
S: 气动(单作动) - Single Acting Actuator
E: 电动 - Electric Actuator

公称压力 - **Nominal Pressure:**

10: PN10
16: PN16
15: ANSI 150LB
XX: 其它压力等级

控制方式 - **Control Type:**

A: 开关型(On/Off Type)
B: 调节型(Modulating Type)

作用方式 - **Failure Position:**

1: 气开式(Air To Open)
2: 气关式(Air To Close)

公称通径 - **Nominal Size:**

举例(for example): 050 - DN50

阀座密封造型 - **Seat Type:**

M: 硬密封(Metal Seat)
S: 软密封(Soft Seat)-聚四氟乙烯PTFE

阀体材质 - **Body Material:**

C: 碳钢(Carbon Steel)
P: 304SS
S: 316SS
L: 316LSS

阀芯材质 - **Disc Material**

1: 420SS
2: 304SS
3: 316SS
4: 316LSS