V-TORK

Declutchable Wormgear Manual Override

Pneumatic valve dedicated clutch

KH-1 to KH-8

KH-320:1 to KH-450:1

Declutchable Wormgear Manual Override

Main purpose:

The Declutchable Wormgear Manual Override isused with pneumatic actuators and is the main componentof the automatic control system.It is mainly used for rotary angle 90 °to open and close the butterfly valve, ball valve, piston valve to achieve manual drive.It can also be used for other automatic control echanical products which need to be manually driven.

Features:

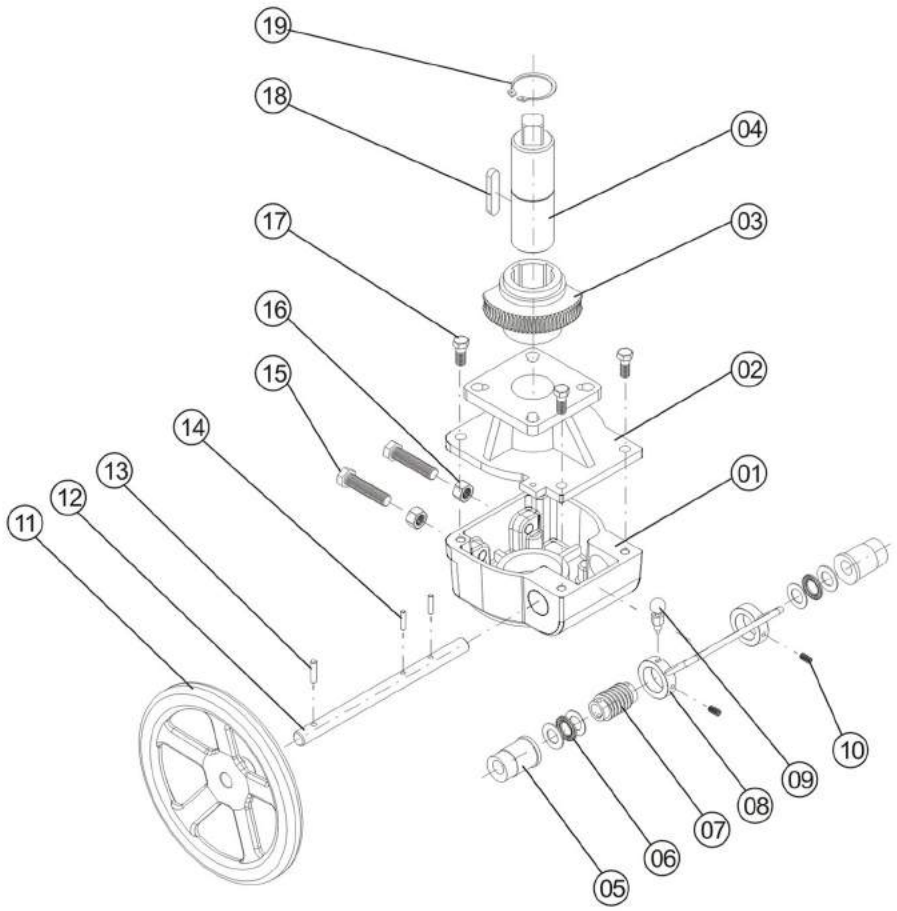
1. Small size, light weight, reasonable design, novel style.

2. Product serialization, the output torque parameters are easily matched with pneumatic actuators and a variety of valves.

3. KH series connection in line with ISO 5211 connection standards, the upper bulge for the tenon, the lower part is the square hole; The large torque mechanism 320: 1 and 450: 1 connection hole has a number of keyways, so that users can select the product with the corresponding valve body position.

4. Lift the limit pin, rotate the eccentric device limit of 180or 90 ° limit automatically to achieve pneumatic drive; operate in reverse way to achieve manual drive.

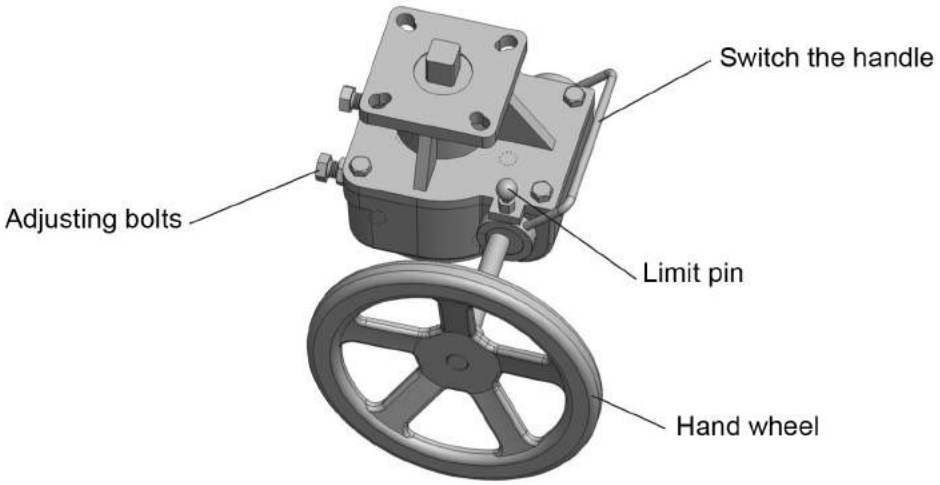
5. Products leaving the shop are applied with special grease such that after assembly with valve and pneumatic actuator, it will secure overall seal, dustproof and waterproof, the protection class is IP65.

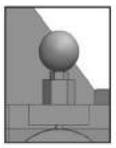


Material list

NO.	Quantity	Name	Standard material	Optional material
01	1	Case	Aluminum alloy/ Ductile iron	
02	1	Bracket cover	Aluminum alloy/ Ductile iron	
03	1	Turbine	Ductile iron	
04	1	Connecting shaft	Carbon steel	
05	1	Eccentric sets	Carbon steel	
06	1	Bearing components	Bearing steel	
07	1	Vortex rod	Carbon steel	
08	1	Handle	Carbon steel	
09	1	Limit assembly	Carbon steel/ Stainless steel	
10	1	Set screws	Carbon steel	
11	1	Hand wheel	Carbon steel	
12	1	Scroll shaft	Carbon steel chrome	
13	1	Cylindrical pin hand wheel	Carbon steel	
14	1	Cylindrical pin hand turbine	Carbon steel	
15	1	Adjustment bolts	Stainless steel	
16	1	Nuts	Stainless steel	
17	1	Bolts	Stainless steel	
18	1	Flat key	Carbon steel	
19	1	Flexible retaining ring	Spring steel	

Instructions





Lift limit pin

Left-handed to manual

Right-handed to manual

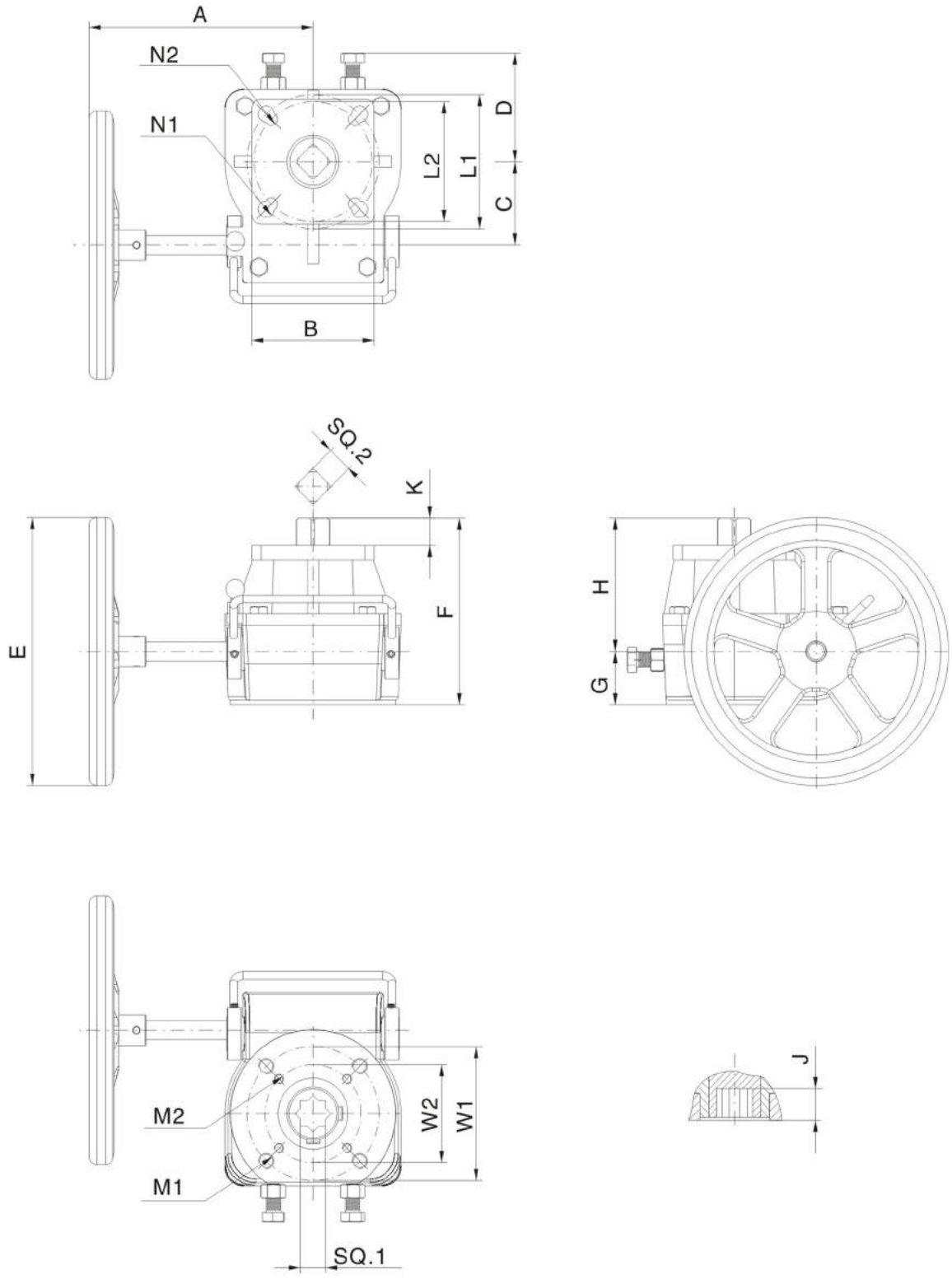
Instructions

Manual operation: lift the limit pin rotation switch,handle, left-hand upward direction to the manuallimit position, confirm that has been in place, thenthe turbine vortex will engage, turn the hand wheelto open or close the valve.
Automatic operation: lift the limit switch rotation switch handle, right-hand down to the automatic limit position, to confirm that has been in place, then the turbine vortex will disengage, hand wheel turning will be idling.
Note: When switching handle up and down rotating it may cause jamming. This is due to engagementof the turbine vortex, shake hand wheel to eliminate the jam.

Technical parameter

Model	Speed ratio	Input torque	Output torque	Hand wheel diameter	Weight
KH–1	26:1	50	280	Ø180	2.6
KH–2	28:1	60	360	Ø200	4.0
KH–3	38:1	90	620	Ø280	6.5
KH–4	54:1	110	1310	Ø300	13
KH–5	80:1	140	2600	Ø400	32
KH–6	78:1	200	3500	Ø500	43
KH–7	98:1	200	4200	Ø600	65
KH-8	100:1	200	5500	Ø600	115

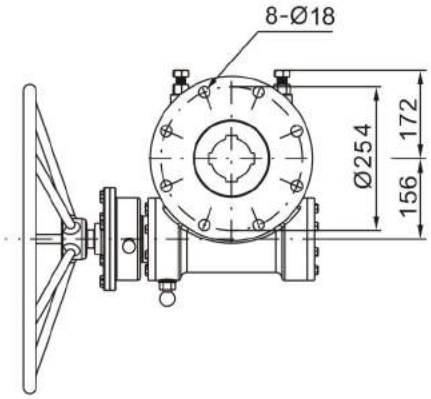
Outline connection dimension table

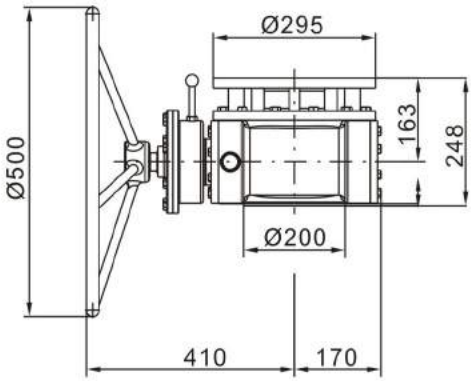


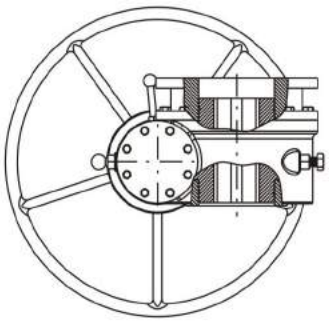
Outline connection dimension table

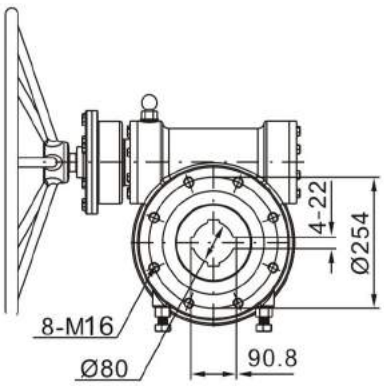
Item	KH-1	KH-2	KH-3	KH-4	KH-5	KH-6	KH-7	KH-8
A	150	170	200	260	310	370	435	440
B	70	95	115	130	155	160	160	320
C	50	55	82	85	125	140	170	210
D	43	65	90	102	110	140	160	170
E	Ø180	Ø200	Ø280	Ø300	Ø400	Ø500	Ø600	Ø600
F	120	127	150	195	209	233	233	252
G	35	40	40	60	55	60	60	65
H	85	87	110	135	154	172	173	187
J	16	19	24	29	40	50	50	58
K	15	19	22	28	39	48	48	55
M1	M8x4	M10X4	M10X4	M16x4	M20x4	M20x4	M20x4	M16x8
M2	M6x4	M8x4	M8x4	----	---	---	---	---
W1	70	102	102	140	165	165	165	254
W2	50	70	70	----	---	---	---	---
SQ.1	14	17	22	27	36	46	46	55
N1	Ø10x4	Ø12x4	Ø14x4	Ø18x4	Ø22x4	Ø22x4	Ø22x4	Ø18x8
N2	Ø8x4	Ø10x4	Ø12x4	Ø14x4	Ø18x4	---	---	---
L1	70	102	125	140	165	165	165	254
L2	50	70	102	125	140	---	---	---
SQ.2	14	17	22	27	36	46	46	55

Dimensions and connection dimensions









Dimensions and connection dimensions