

**GEARBOX**



ISO 9001  
Quality

ISO 14001  
Environment

OHSAS 18001  
Health & Safety



## GEARBOX

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### DESCRIPTION

Convalve CVGB series Part-turn Gearboxes use worm and worm wheel revolute pairs, with high-performance needle roller bearing assembled on both ends of the worm shaft. It ensures the thrust requirement during rotation. It's in high mechanical efficiency withstands big torque, small size with compact design, and it's also easy to operate and has a reliable self-locking function

### APPLICATION

CVGB part turn worm gearboxes are applied to dampers, ball valves, butterfly valves and also other 90° quarter turn valves. CVGB part turn worm gear operator has variety models of hand wheels for optional.

### CONNECTION WITH VALVE

The flange connecting to valve is according to ISO5211

### ADVANTAGES

- Precision casting ductile iron housing
- Optional output torque, range up to 32000Nm
- High efficient needle roller bearing
- High-strength steel input shaft
- Stroke 0°- 90° ( ±5°)
- Compact structure
- Grease filled for longer life
- Adjustable stopper ( ±5°)
- Good seal

### OPTIONS

- Butterfly valves
- Ball Valves
- Plug Valves

### WORKING TEMPERATURE

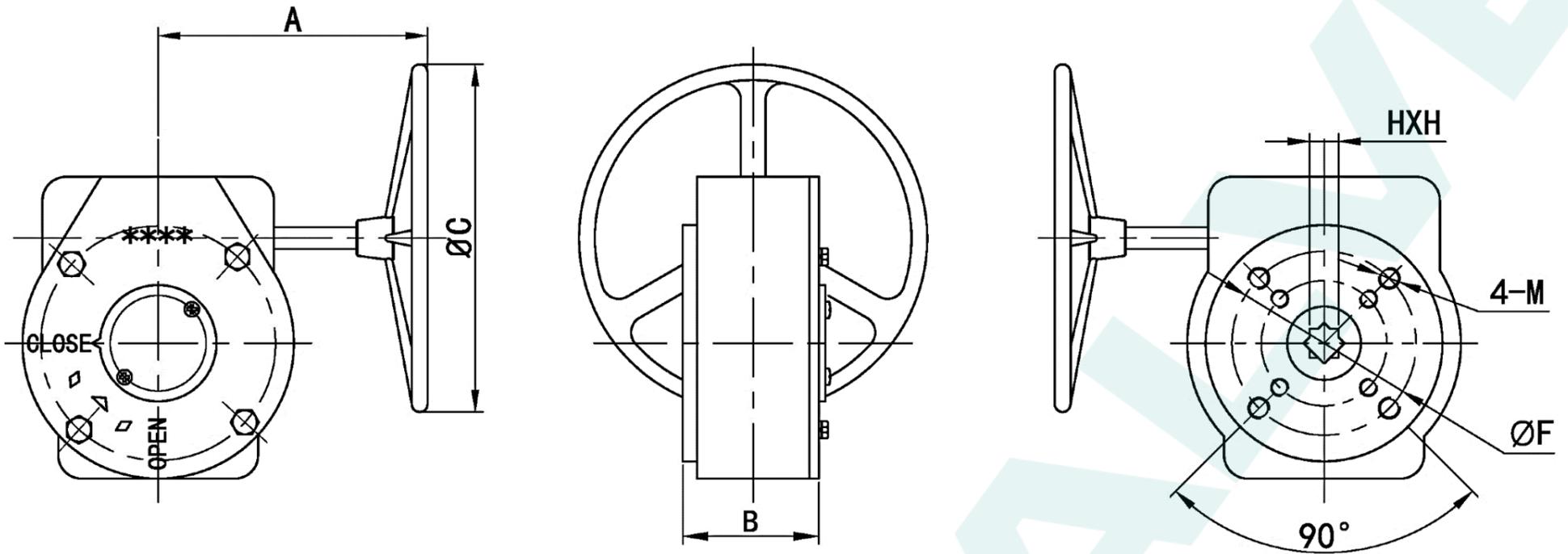
-20°C to 70°C according to material structure

### CONSTRUCTION

BODY	Grey cast iron
WORM GEAR	Ductile iron
WORM	Steel ASTM1045
WORM SHAFT	Steel ASTM1045

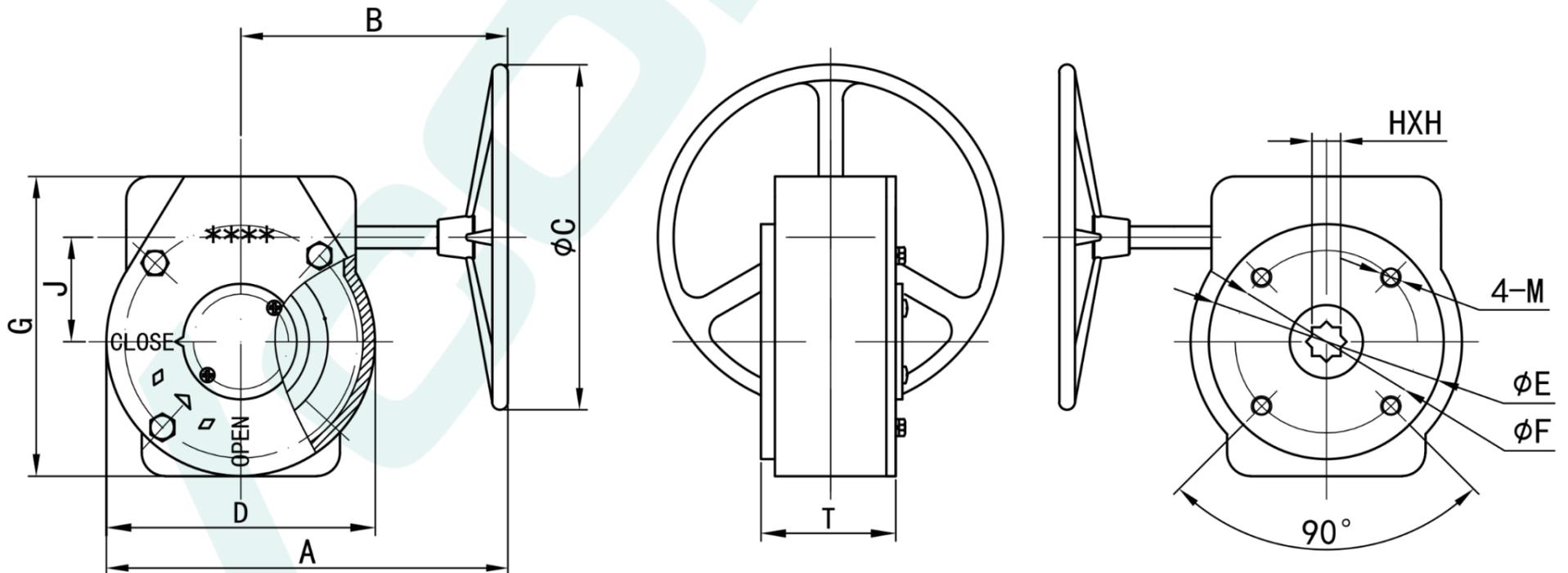
**DIMENSIONS**

**DN50 - DN300**



SIZE		RATIO	INFORMATION REDUCTOR						FLANGE ISO 5211
MM	INCH		A	ØC	B	ØF	4-M	HXH	
DN50-80	2"-3"	24:1	160	150	68	50/70	4- M6/M8	14X14	F05/F07
DN100	4"	24:1	160	150	68	50/70	4- M6/M8	14X14	F05/F07
DN125	5"	24:1	160	150	68	50/70	4- M6/M8	14X14	F05/F07
DN150	6"	24:1	160	150	68	50/70	4- M6/M8	14X14	F05/F07
DN200	8"	30:1	227	285	72	70/102	4-M8/M10	17X17	F07/F10
DN250	10"	30:1	227	285	72	70/102	4-M8/M10	22X22	F07/F10
DN300	12"	50:1	227	285	75	70/102	4-M8/M10	22X22	F07/F10

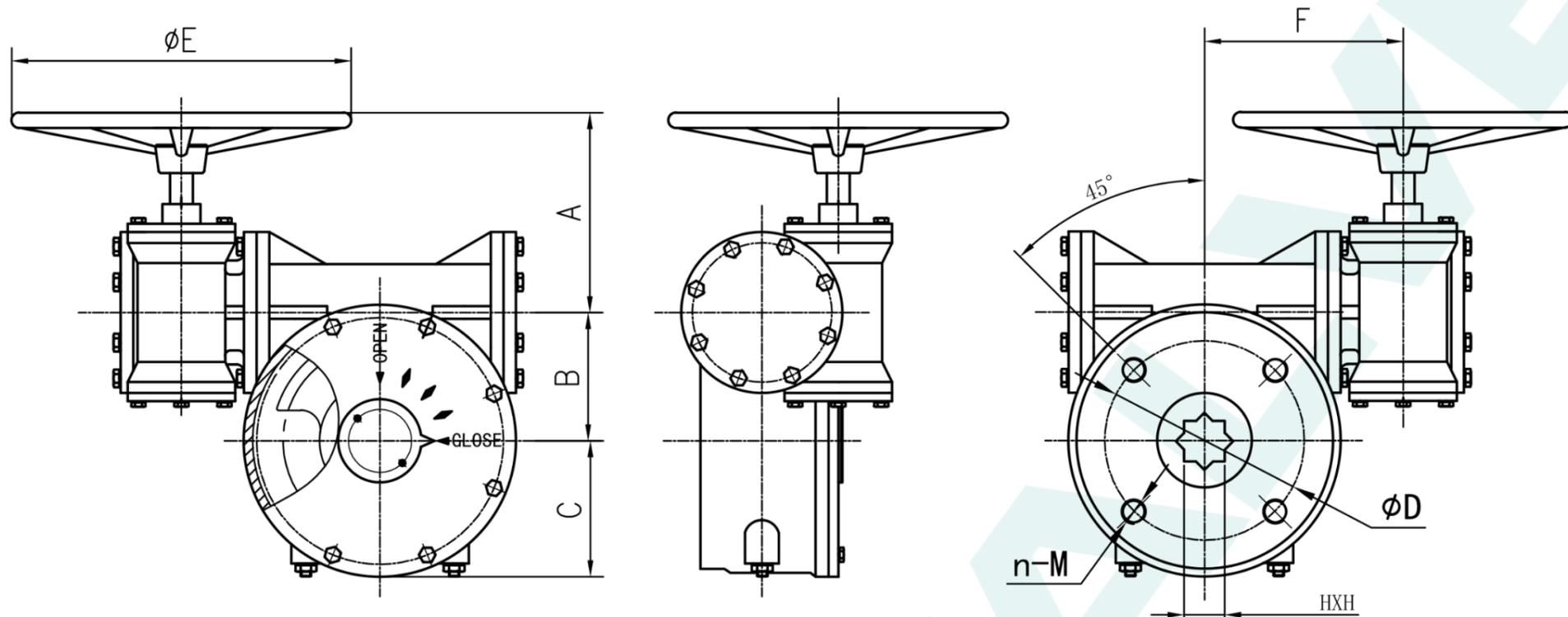
**DN350 - DN450**



SIZE		RATIO	INFORMACION REDUCTOR										FLANGE ISO 5211	
DN	INCH		A	B	ØC	D	J	G	T	ØE	ØF	N-M		HXH
DN350	14"	50:1	305	227	285	155	78	190	75	150	125	4-M12	22X22	F12
DN400	16"	80:1	395	270	285	248	118	195	105	175	140	4-M16	27X27	F14
DN450	18"	80:1	395	270	385	248	118	195	105	175	140	4-M16	27X27	F14

# DIMENSIONS

DN500 - DN600



SIZE	INFORMACION REDUCTOR										FLANGE ISO 5211	INPUT TORQUE (N. M)	OUTPUT TORQUE (N. M)
DN	MODLE	RATÍO	A	B	C	ØE	F	ØD	N- M	HXH			
DN500	3DA-30/400	640:1	154	100	107	385	169	165	4- M20	36X36	F16	52	4000
DN600	3DA-30/400	640:1	154	100	107	385	169	165	4- M20	36X36	F16	52	4000