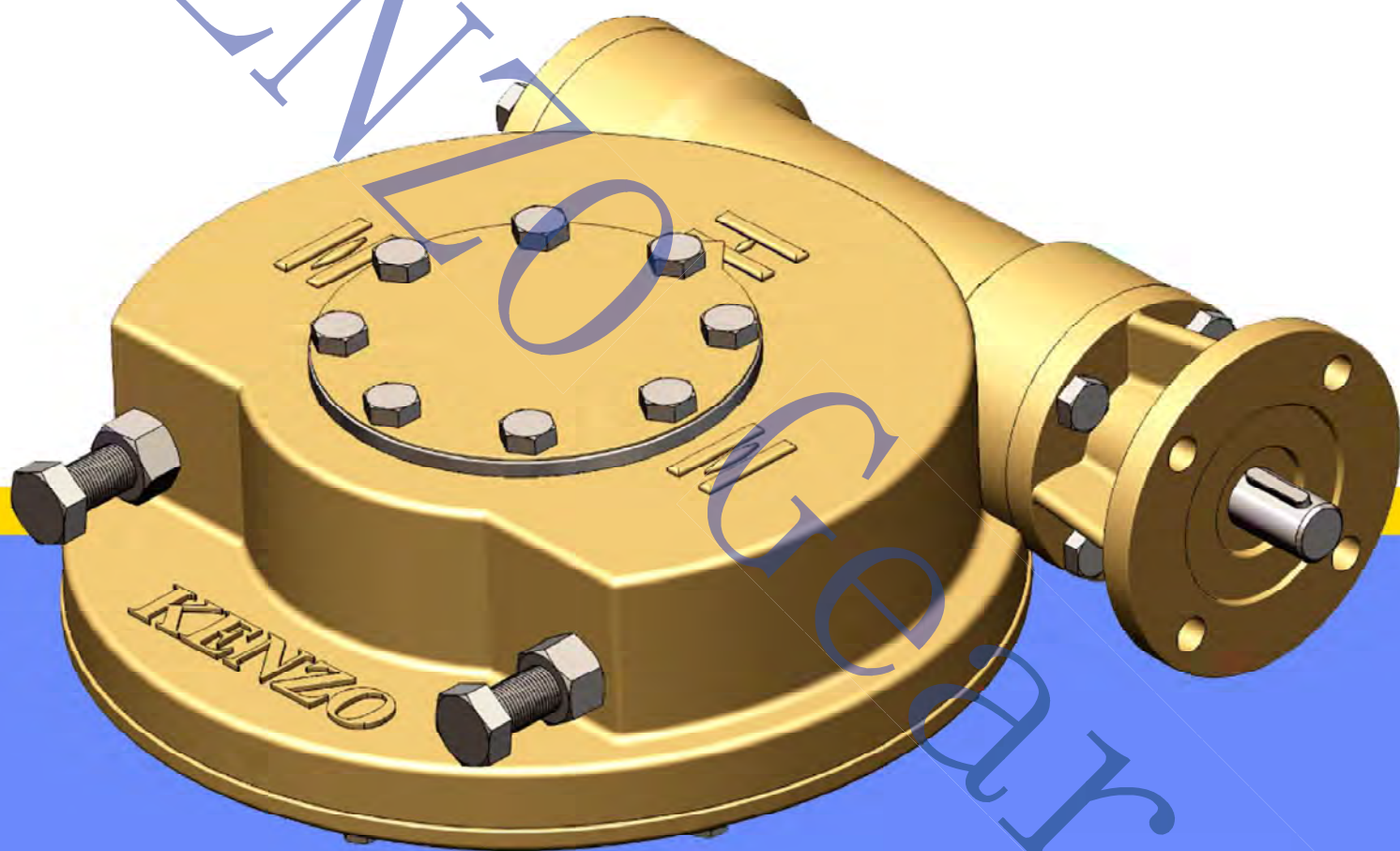




KENZO® Gears

QW Part-turn Gearbox



Shanghai Kenzo Control Equipment Co., Ltd.

www.shqzkz.com



Since 1994

Introduction

The KENZO QWseries Part-turn gearbox with high precision & reliability are mainly used in ball, butterfly, plug valves.

The function is to reduce the speed and increase the torque. It can be manual or motorised.

Attributes

All mounting bases conform to ISO 5210 standards.

Total enclosed gearing with sealed transmission system.

All castings are ductile iron, Class 65-45-12, excellent strength and impact resistance.

High quality coating with corrosion protection.

Heavy duty roller bearings withstand axial & radial thrust loads.

Various Ratio & MA

Self-retaining of worm

End stop ranges from 0° to 90° (±10° adjustable).

Options

Worm Gear:

- Ductile iron, Class 80-55-06
- Aluminum bronze, B148-C95800

Operation:

- Input flange for electric actuator
- Hand wheels

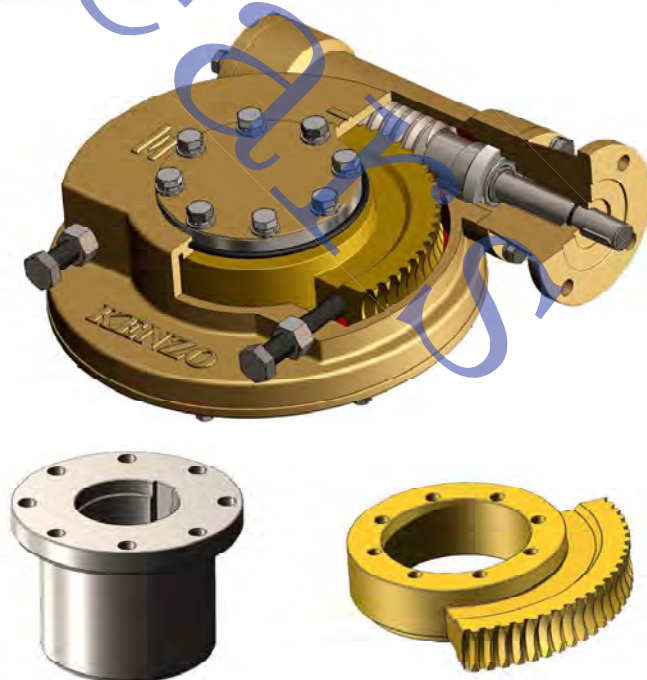
Ambient temperature:

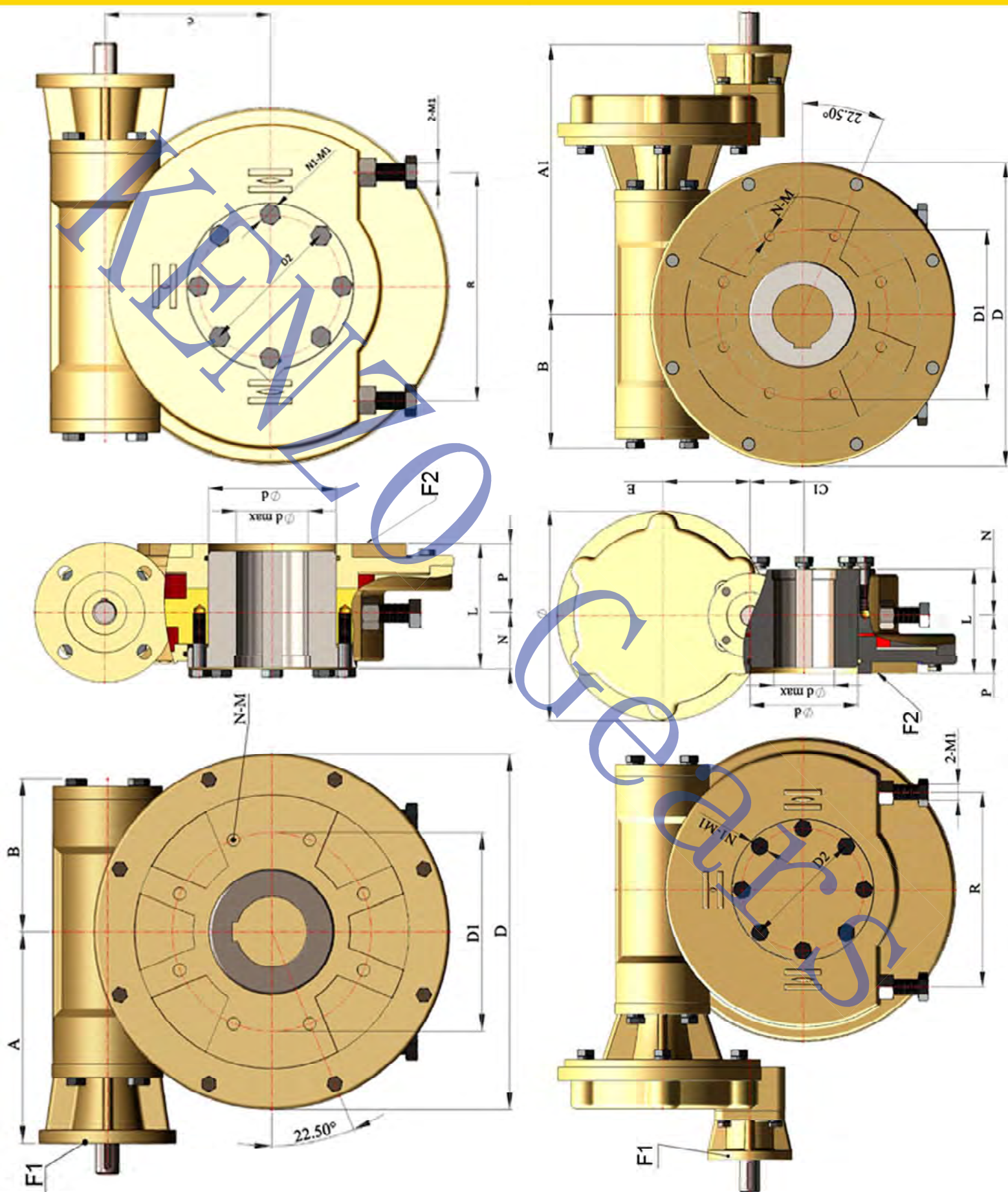
- standard for -30°C to + 120°C
- Ultralow temperature -40°C to + 120°C
- Ultrahigh temperature -30°C to + 300°C

Enclosure Protection:

- IP67 (standard)
- IP68

Many options, such as painting color, Intermediary Flange, stage reducer, and etc.

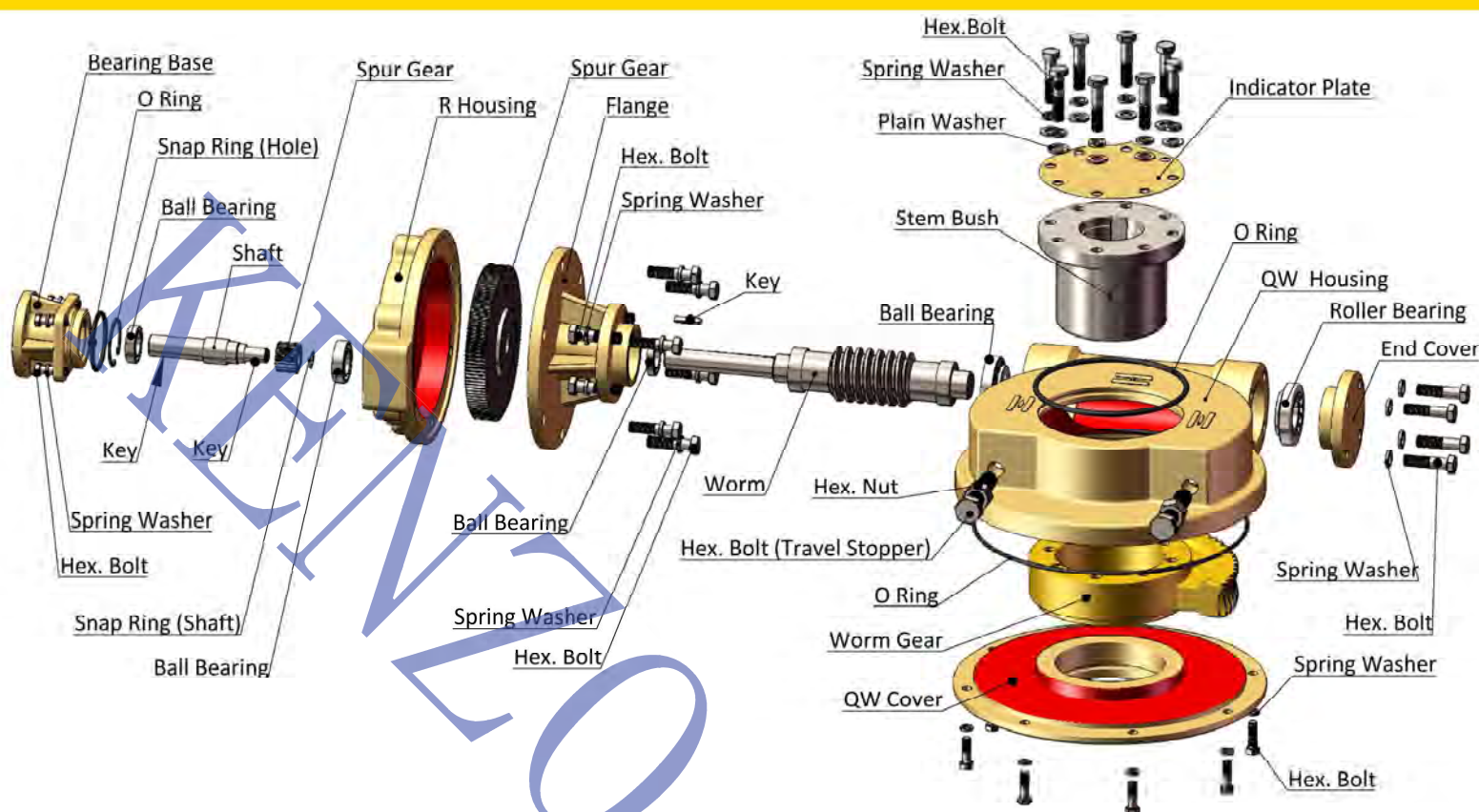




Model	External Part												Input Part				Output Part																											
	A	A1	B	C	C1	Ø	E	L	N	P	P.C.D		End Stop		Input Flange	Input Shaft	ØD	Ød	Ødmax	Output Flange	P.C.D																							
											ØD2	N1-M1-DP	R	2-M1							F1	Ø	KEY	ØD1	N-M-DP																			
QW3	150	-	97	75	-	-	-	87	43	52	72	4-M8	100	2-M12	F10	20	6×6	170	60	45	F10	102	4-M10-15																					
QW4 QW4R	159	292	106	103	39	190	63	89	38	54	100	8-M8	132	2-M16	F10	20	6×6	218	85	64	F12	125	4-M12-18																					
															F14	30	8×7				F10	102	4-M10-15																					
																					F14	140	4-M16-24																					
																					F12	125	4-M12-18																					
QW5 QW5R	187	320	135	135	72	190	63	120	50	75	118	8-M10-15	140	2-M16	F10	20	6×6	285	100	76	F16	165	4-M20-30																					
QW6 QW6R	197	330	145	178	115	190	63	115	50	70	162	8-M12-18	240	2-M20	F10	20	6×6	375	135	102	F25	254	8-M16-24																					
QW7 QW7R	297	418	195	210	80	312	130	145	59	86	182	8-M16-24	280	2-M24	F14	30	8×7				F30	298	8-M20-30																					
QW8 QW8R	324	445	230	246	116	312	130	188	75	113	230	8-M16-24	300	2-M24	F16	40	12×8	520	200	153	F25	254	8-M16-24																					
															F10	20	6×6				F30	298	8-M20-30																					
															F14	30	8×7				F35	356	8-M30-45																					
															F16	40	12×8				F30	298	8-M20-30																					
QW9R	-	505	265	-	140	312	130	200	80	120	276	8-M16-24	330	2-M24	F10	20	6×6	590	245	178	F30	298	8-M20-30																					
QW10R	-	583	305	-	122	463	220	264	110	154	320	16-M20-30	475	2-M36	F14	30	8×7				F35	356	8-M30-45																					
															F16	40	12×8				F40	406	8-M36-54																					
															F25	40	12×8				F25	254	8-M16-24																					
QW12R	-	641	369	-	217	463	220	269	113	156	390	16-M20-30	660	2-M42	F10	20	6×6	920	350	250	F40	406	8-M36-54																					
QW13R	-	846	481	-	485	340	-	290	150	185	花键连接	685	2-M42	F14	30	8×7	F48				483	12-M36-54																						
														F16	40	12×8	F48				483	12-M36-54																						
														F30	40	12×8	F60				603	20-M36-54																						
QW14R	-	1057	582	-	564	460	-	360	202	217	792	花键连接	2-M48	F10	20	6×6	1164	402	300	F60	603	20-M36-54																						
																								F14	30	8×7	F14	30	8×7	F16	40	12×8	F16	40	12×8	F25	50	14×9	F25	50	14×9	F60	603	20-M36-54

UNIT: mm

Model	Gear Ratio					Max. Stem Acceptance	Input Flange	Output Flange		Max. Output Torque	Weight
								Stand	Option		
QW3	40	60				45(14×9)	F07/F10	F10	F07/F12	600	15
QW4	40	70				64(18×11)	F10/F14	F14	F12/F16	1,500	23
QW4R	140	210	298								35
QW5	70					76(22×14)	F10/F14	F16	F14	3,000	46
QW5R	140	210	298	360							58
QW6	70					102(28×16)	F10/F14	F25	F16	6,000	88
QW6R	140	210	298	360							100
	450										106
	500	574	683		118						
QW7	70					127(32×18)	F10/F14	F25	F30	10,000	140
QW7R	140	220	280	360	450						158
	490	574	683		170						
QW8	70					153(40×22)	F10/F14 F16	F25	F30/F35	25,000	260
QW8R	140	220	280	360	450						278
	490	574	683		290						
	720	875	980		341						
QW9	65					178(45×25)	F10/F14 F16/F25	F30	F35/F40	40,000	350
QW9R	130	205	260	341							380
	390										431
	455	520	611	670	813						
	910										
QW10	64					220(50×28)	F10/F14 F16/F25	F35	F40	80,000	636
QW10R	128	200	256								666
	320	384	467								717
	512	602	660	800	896						
	1,024	1,152	1,536	1,792	1,920						729
QW12	85					250(56×32)	F14/F16 F25	F40		150,000	930
QW12R	170	268	340								960
	425	510	620								1011
	680	800	876	1,062	1,190						
	1,360	1,530	1,700	2040	2380						1023
QW13	85					250(56×32)	F30	F48	F60	300,000	1508
QW13R	170	255	340	425	510		F10/F14 F16/F25				1622
	595	680	740	850	986						
	1063	1156	1254	1360	2040						
	2720										
QW14	82					300(70×36)	F30	F60	-	600,000	2654
QW14R	164	246	328	410	492		F10/F14 F16/F25				2927
	574	656	713	820	951						
	1025	1115	1210	1312	1968						
	2624										



No.	Description	Material	BS	ASTM	Remark
1	QWR Housing	Cast Iron	BS1563 EN-GJL-450-10	ASTM A536 65-45-12	Standard
2	QW Cover	Cast Iron	BS1563 EN-GJL-450-10	ASTM A536 65-45-12	
3	Worm	Steel	BS970 045M10 or 606M36t	AISI/SAE 1010 or 4340	
4	Worm Gear	Cast Iron	BS1563 EN-GJS-700-2	ASTM A536 100-70-03	
5	Indicator Plate	Steel	BS970 070M20	AISI/SAE 1023	
6	Stem Bush	Steel	BS970 070M55	AISI/SAE 1055	
7	Hex Bolt	Carbon Steel	BS4168		
8	O Ring	Buna-N Rubber	NBR	NBR	
9	Taper Roller Bearing	Special Steel			
10	R Housing	Cast Iron	BS1563 EN-GJL-450-10	ASTM A536 100-70-03	
			BS1563 EN-GJL-400-15		
11	Input Flange	Cast Iron	BS1563 EN-GJL-450-10	ASTM A536 100-70-03	
			BS1563 EN-GJL-400-15		
12	Input Shaft	Steel	BS970 605M36T	AISI/SAE 4340	
13	Spur Gear	Steel	BS970 817M40T	AISI/SAE 4340	
14	Hex Bolt (Travel Stopper)	Steel	BS3692		
OP-1	Hand Wheel	Steel Pipe	BS1387	A182	Option
OP-2	Washer	Stainless Steel	BSEN10088-1-95	ASTM A276-96	
OP-3	HEX. Bolts	Stainless Steel	BSEN10088-1-95	ASTM A276-96	



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