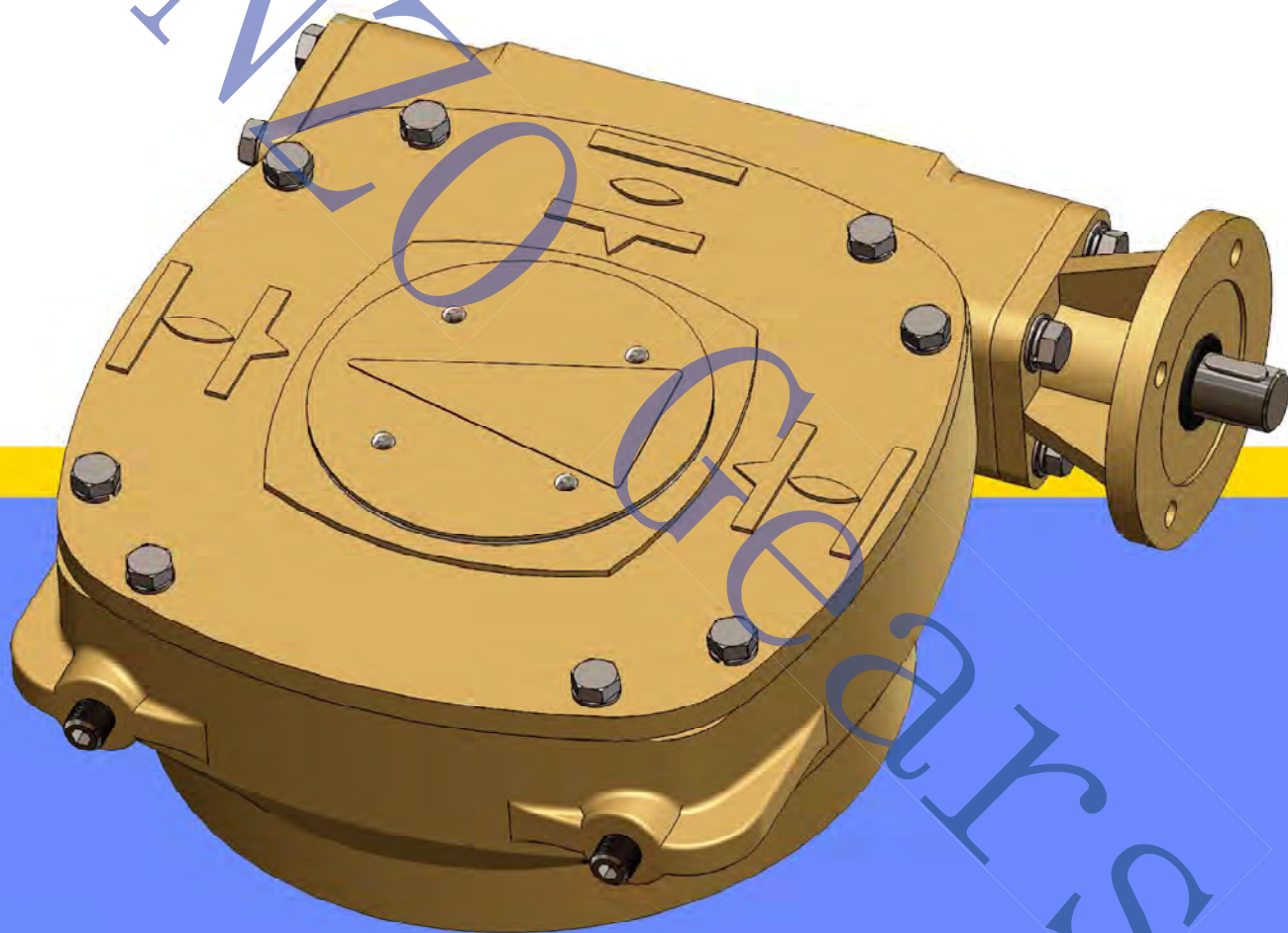




KENZO® Gears

QS Part-turn Gearbox



Shanghai Kenzo Control Equipment Co., Ltd.

www.shqzkz.com



Since 1994

Introduction

The KENZO QS series 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° ($\pm 10^\circ$ adjustable).

Removable splined output drive to meet accurate position for matching valve stem.

Options

Worm Gear:

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

Operation:

- Input flange for electric actuator
- Hand wheels

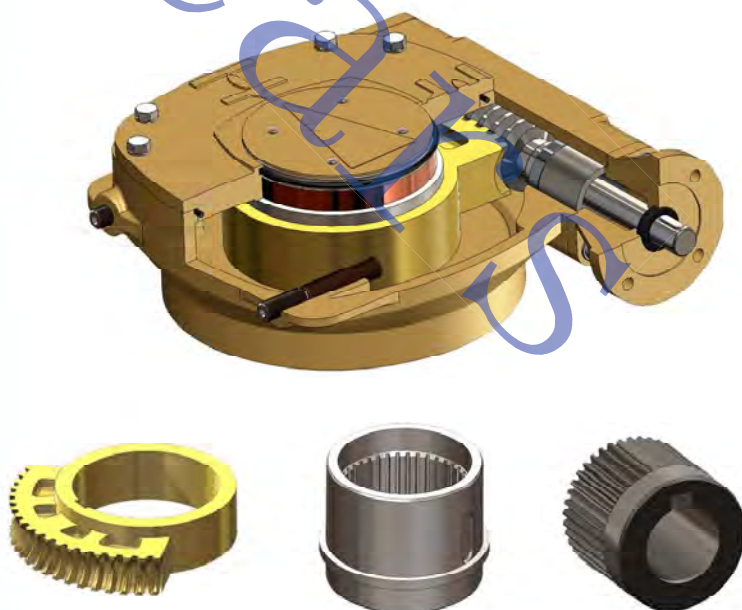
Ambient temperature:

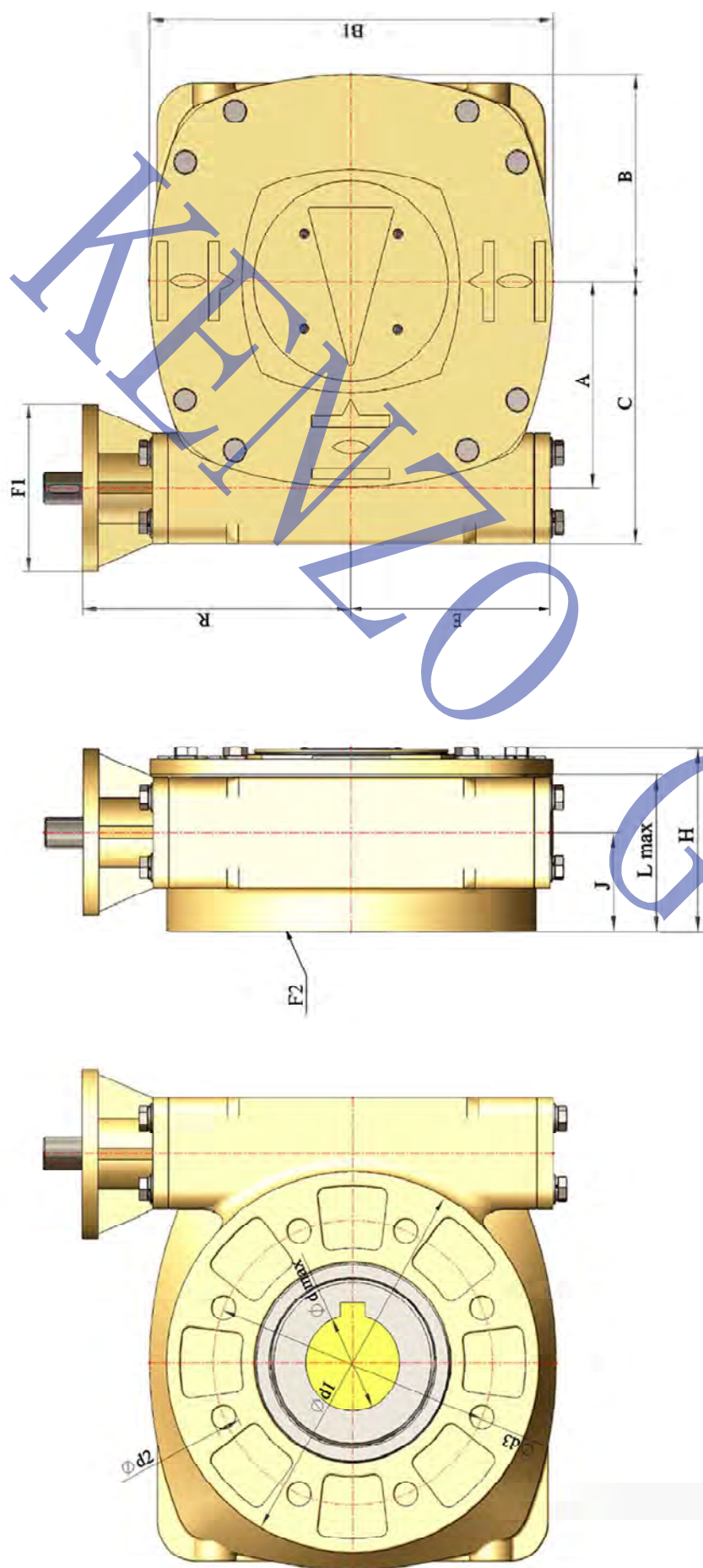
- standard for -30°C to $+120^\circ\text{C}$
- Ultralow temperature -40°C to $+120^\circ\text{C}$
- Ultrahigh temperature -30°C to $+300^\circ\text{C}$

Enclosure Protection:

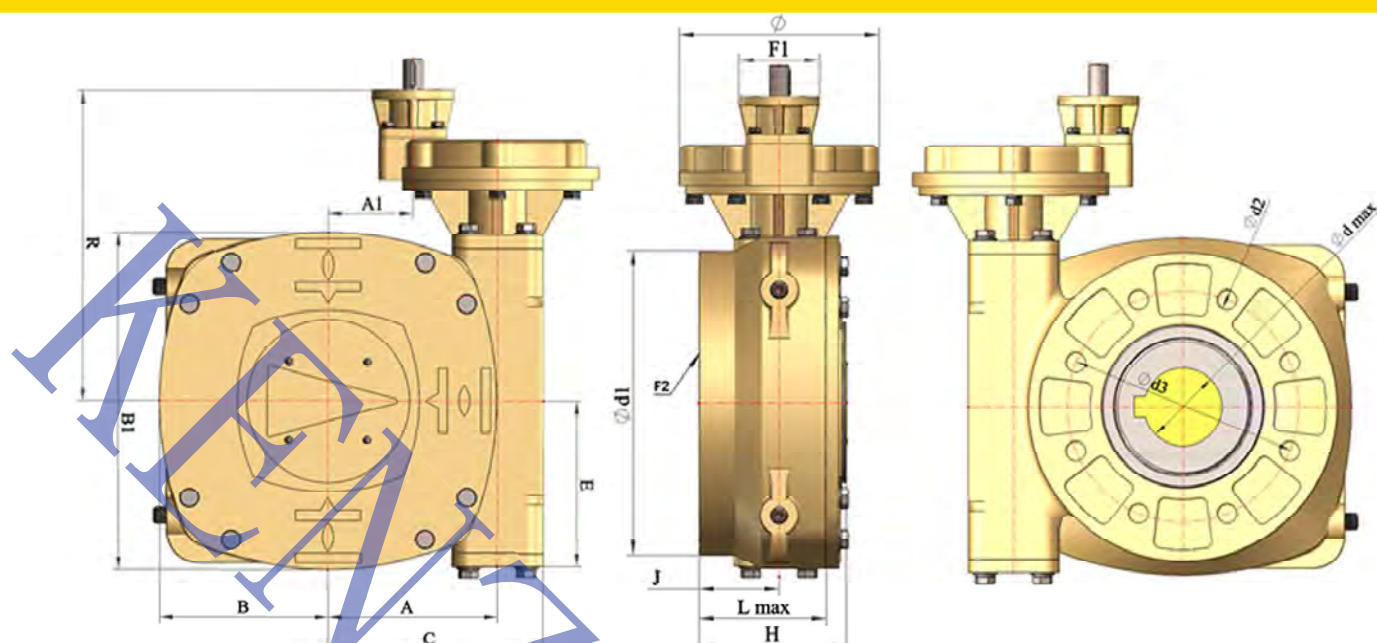
- IP67 (standard)
- IP68

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

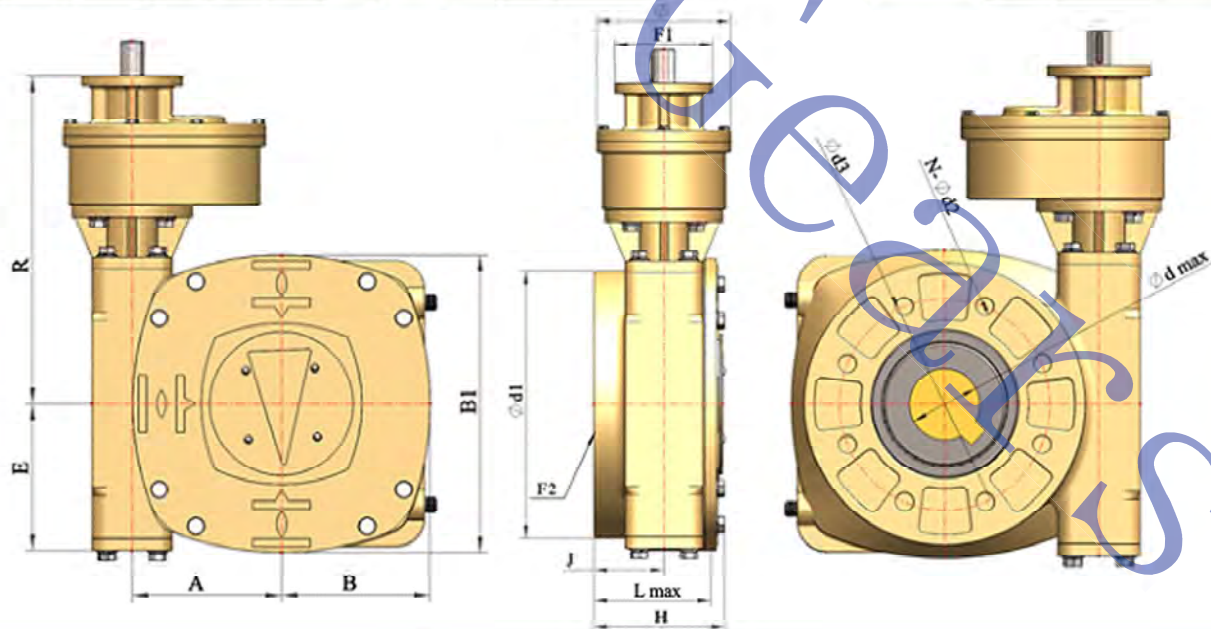




Model	External Part										Base Part						Input Shaft Part		Hand Wheel
	A	B	B1	C	E	Input Flange		H	J	R	Lmax		Output Flange	P.C.D		Ø	KEY		
						F1	F1				Max. Stem Height	Ød1		Ød3	Ød2 (N-H-DP)				
QS50	56	65	130	84	74	F07	78	39	108	68	Ø130	F10	Ø102	4-M10-15					
QS63	71	77	154	102	92.5	F10	86	45	138.5	76	Ø154	F12/F10	Ø125	4-M12-18					
QS80	81	90	180	113	98	F10	93	46.5	146	83	Ø180	F14/F12	Ø140	4-M16-24					
QS100	119	121	242	164	132	F10/F14	146	80	187	136	Ø240	F16	Ø165	4-M20-30					
QS125	152	151.5	303	198	157	F10/F14	140	75	212	130	Ø303	F25/F16	Ø254	8-M16-24					
QS160	198	193	386	260	210	F14/F16	162	88	278	150	Ø350	F30/F25	Ø298	8-M20-30					
QS200	228	230	460	298	255	F14/F16/F25	178	90	345	165	Ø415	F35/F30/F25	Ø356	8-M30-45					
QS250	260	260	520	330	255	F14/F16/F25	223	125	345	210	Ø475	F40/F35/F30	Ø406	8-M36-54					



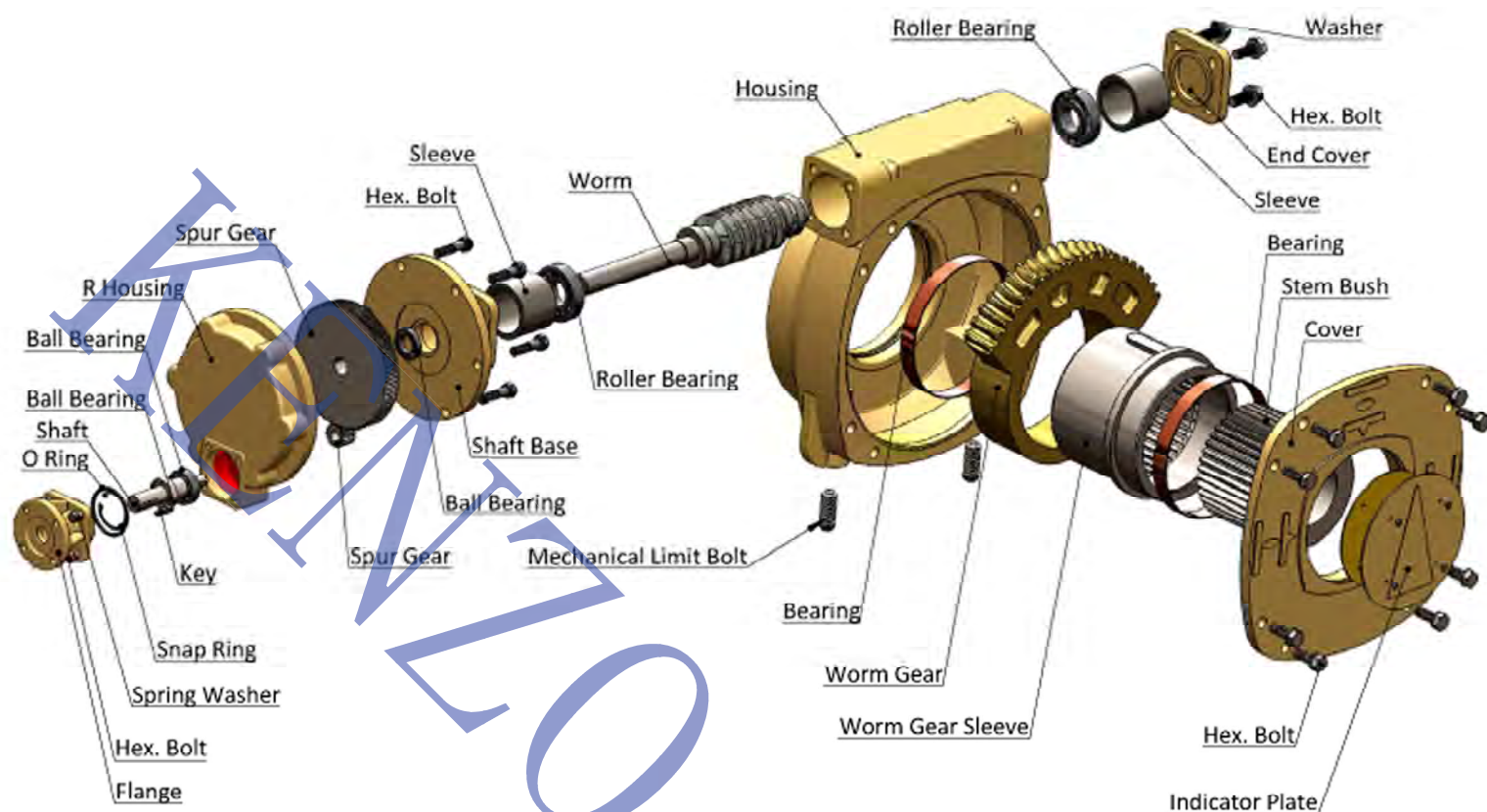
Model	External Part										Input Part			Output Part				
	A	A1	B	B1	C	E	H	J	R	Ø	Input Flange	Input Shaft		Lmax	Ød1	Output Flange	P.C.D	
											F1	Ø	KEY	Max. Stem Height		F2	Ød3	Ød2 (N-M-DP)
QS100R	119	58	121	235	164	132	146	80	320	190	F10/F14	20	6×6	136	210	F16	165	4-M20-30
QS125R	152	89.5	151.5	303	198	157	140	75	345	190	F10/F14	20	6×6	130	300	F25/F16	254	8-M16-24
QS160R	198	68	193	386	260	210	162	88	417	312	F14/F16	30	8×7	150	350	F30/F25	298	8-M20-30
QS200R	228	97.5	230	460	298	255	178	90	480	312	F16/F14/F25	40	12×8	165	415	F35/F30/F25	356	8-M30-45
QS250R	260	130	260	520	330	255	223	125	480	312	F25/F14/F16	50	14×9	210	475	F40/F35/F30	406	8-M36-54



Model	External Part								Input Part			Output Part				
	A	B	B1	E	H	J	R	ø	Input Flange	Input Shaft		Lmax	ød1	Output Flange	P.C.D	
									F1	ø	KEY	Max. Stem Height		F2	ød3	ød2 (N-M-DP)
QS200R	228	230	460	255	178	90	564	240	F10/F14	20	6×6	165	415	F35/F30/F25	356	8-M30-45
QS250R	259	259	518	255	223	125	564	240	F10/F14	20	6×6	210	475	F40/F35/F30	406	8-M36-54
QS315R	338	339	678	328	275	149	695	340	F14/F16	30	8×7	260	560	F40/F35	406	8-M36-54
QS400R	400	408	815	400	324	169	760	340	F16/F25	40	12×8	310	560	F40/F48	406	8-M36-54
QS500R	485	500	1000	480	345	185	846	340	F16/F25	40	12×8	330	600	F48	483	12-M36-54
QS600R	565	532	1065	583	418	218	1060	460	F25/F30	50	14×9	400	910	F60	603	20-M36-54

UNIT: mm

Model	Gear Ratio					Max. Stem Acceptance	Input Flange	Output Flange		Max. Output Torque	Weight
								Standard	Option		
QS50	51					28(8×7)	F07	F10	F07	250	7
QS63	51					45(14×9)	F10	F12	F10	1,000	13
QS80	53					60(18×11)	F10	F14	F12	2,250	18
QS85	75						F10				18
QS80R	106	150					F10				18
QS100	60	74				80(22×14)	F14	F16	F14	4,500	47
QS100R	104	120	150	180	255		F10/F14				65
	312	384									
QS125	60					90(25×14)	F14	F25	F16	9,000	66
QS125R	104	120	150	180	255		F10/F14				84
	312	384	426	492	585						
QS160	60					100(28×16)	F14	F30	F25	16,000	121
QS160R	90	106	120	154	190		F10/F14				151
	240	310	384	426							
	492	585									
QS200	55					125(32×18)	F25	F35	F30/F25	30,000	196
QS200R	83	110	132	174	220		F10/F14				254
	284	352	451	536	638		F16				
	688	748	811	880							
QS250	55					160(40×22)	F25	F40	F35/F30	45,000	288
QS250R	83	110	132	174	220		F10/F14				369
	284	352	440	479	550		F16				
	638	688	748	811	880						
QS315	65					200(45×25)	F30	F40	F48/F35	80,000	622
QS315R	98	130	205	260	325		F10/F14				672
	390	455	520	566	650		F16/F25				
	754	813	884	959	1,040						
	1,560	2,080									
QS400	70					220(50×28)	F30	F40	F48	160,000	863
QS400R	140	210	280	350	420		F10/F14				968
	490	560	609	700	812		F16/F25				
	875	952	1033	1120	1680						
	2240										
QS500	85					250(56×32)	F30	F48	F60	300,000	1508
QS500R	170	255	340	425	510		F10/F14				1613
	595	680	740	850	986		F16/F25				
	1063	1156	1254	1360	2040						
	2720										
QS600	82					300(70×36)	F30	F60	-	600,000	2654
QS600R	164	246	328	410	492		F10/F14				2927
	574	656	713	820	951		F16/F25				
	1025	1115	1210	1312	1968						
	2624										



No.	Description	Material	BS	ASTM	Remark
1	Indicator Plate	Steel	BS970 045M10 or 606M36t	AISI/SAE 1010 or 4340	Standard
2	Housing	Ductile Iron	BS1563 EN-GJL-450-10	ASTM A536 65-45-12	
3	Cover	Ductile Iron	BS1563 EN-GJL-450-10	ASTM A536 65-45-12	
4	Worm	Steel	BS970 045M10 or 606M36t	AISI/SAE 1010 or 4340	
5	Worm Gear	Ductile Iron	BS1563 EN-GJS-700-2	ASTM A536 100-70-03	
6	Worm Driver	Steel	BS970 070M55	AISI/SAE 1055	
7	Stem Bush	Steel	BS970 070M55	AISI/SAE 1055	
8	End Cover	Ductile Iron	BS1563 EN-GJL-450-10	ASTM A536 65-45-12	
9	Shaft Base	Ductile Iron	BS1563 EN-GJL-450-10	ASTM A536 65-45-12	
10	O Ring	NB Rubber	NBR	NBR	
11	R Housing	Ductile Iron	BS1563 EN-GJL-450-10	ASTM A536 65-45-12	
12	R Spur Gear	Steel	BS970 817M40T	AISI/SAE 4340	
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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