



HANGHU

浙江杭湖机械科技有限公司
Zhejiang Hanghu Machinery Technology Co., Ltd

专业农机传动轴制造商
Professional manufacturer of agricultural machinery transmission shafts



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Zhejiang Hanghu Machinery Technology Co., Ltd

浙江省湖州市南浔区千金镇千启路77号

13634182747

www.hanghujx.com

Mark@hanghujx.com

CONNECTING



COMPANY PROFILE >>

We are a high-tech enterprise focusing on precision machinery manufacturing and intelligent equipment research. Located in Huzhou, Zhejiang, our company are integrated in production and sales, making high-quality universal joints, transmission shafts and various industrial mechanical spare parts. With advanced production equipment, rigorous process management and innovative technical teams, we are competitive in the market. Our products are widely used in automobiles, agriculture area, ships, aerospace etc. Our company devotes ourselves to meeting high demand from customers and strict quality control. We have got ISO9001, TS16949 and other international certifications. We have also established long-term cooperative relations with many well-known enterprises in the world. In the future, we will continue to promote technological innovation, improve service quality. We aspire to become the world leading intelligent industry equipment supplier and create big value for our customers all over the world.

1: CARDAN JOINT THEORY

2: THE STRUCTURE OF PTO SHAFT

3: PTO DRIVE SHAFT

PTO DRIVE SHAFT T SERIES

PTO DRIVE SHAFT L SERIES

PTO DRIVE SHAFT S SERIES

PTO DRIVE SHAFT G SERIES

4: CROSS KIT

5: TUBE

6: SAFETY SHIELD

7: PUSH PIN & TAPER PIN, SPRING PIN & SAFETY CHAINS

8: CODE EXPLANATION

9: YOKE

TUBE YOKE

SPLINED YOKE

PLAIN BORE YOKE

10: TORQUE LIMITER

SHEAR BOLT TORQUE LIMITER

OVERRUNNING CLUTCH

RATCHET TORQUE LIMITER

WIDE ANGLE JOINT

SD-DOUBLE JOINT

AUTOMATIC TORQUE LIMITER

FRICITION TORQUE LIMITER

11: STANDARD PROFILE FOR AGRICULTURE SPLINES

12: PTO ADAPTOR

13: PTO HUB & SPLINED SHAFT

14: INDUSTRIAL CARDAN SHAFT SERIES

15: UNIVERSAL COUPLING

16: SAFETY AND WORKING CONDITIONS

CARDAN JOINT THEORY

The PTO drive shaft for agricultural applications consists of two cardan joints and a telescopic coupling. The cardan joint, consisting of two yokes and a cross, is the element used to transmit the motion between two tilted axles. The cardan joint construction is designed so that during rotation, the speed of the output shaft is not always equal to that of the input shaft and this difference in speed depends on the articulation angle of the joint (Fig.1). The transmission ratio versus the articulation angle and the rotation angle is represented in Fig.2. The more the ratio deviates from 1 the greater becomes the irregularity of the motion, thus generating undesirable effects (vibrations, noise, inertial stress).

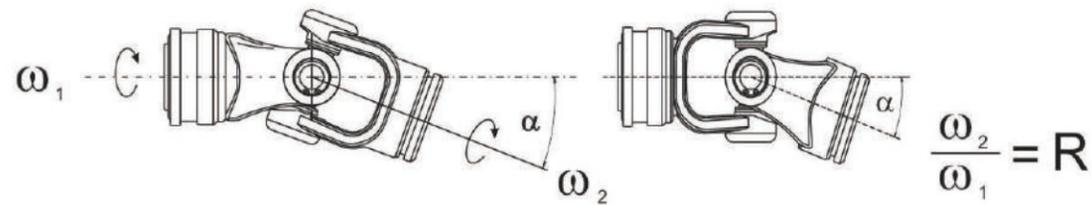


Fig.1

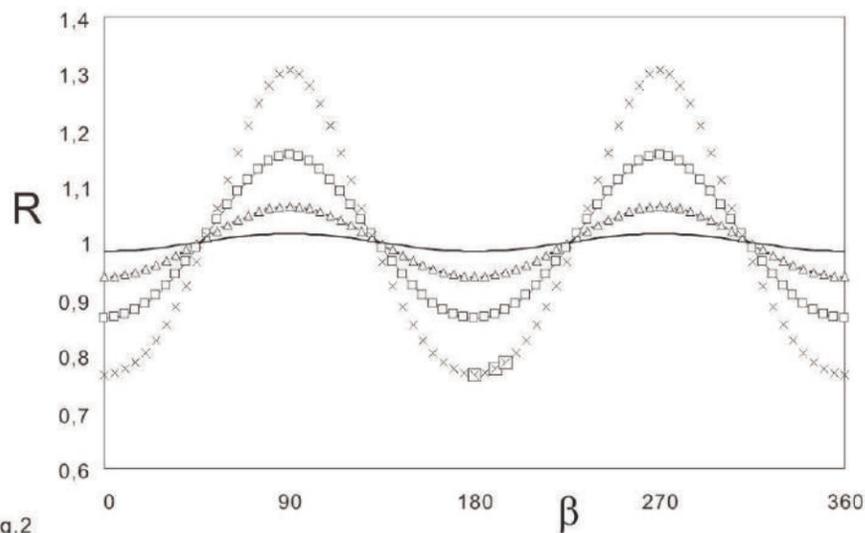


Fig.2

Instantaneous transmission ratio
α=articulation angle β=rotation angle

CARDAN JOINT THEORY

The standard PTO drive shaft consists of two cardan joints. The irregularities of the single joints thus can be cancelled or mutually combined. When the articulation angles of the two joints are equal (see configuration W or Z in Fig.3) the transmission is uniform, i.e. the speed of the output yoke is always equal to the speed of the input yoke, thus eliminating the undesirable effects. In all the other angulations (Fig.4), an irregularity always remains that can be evaluated with the graph on the following page (Fig.5).

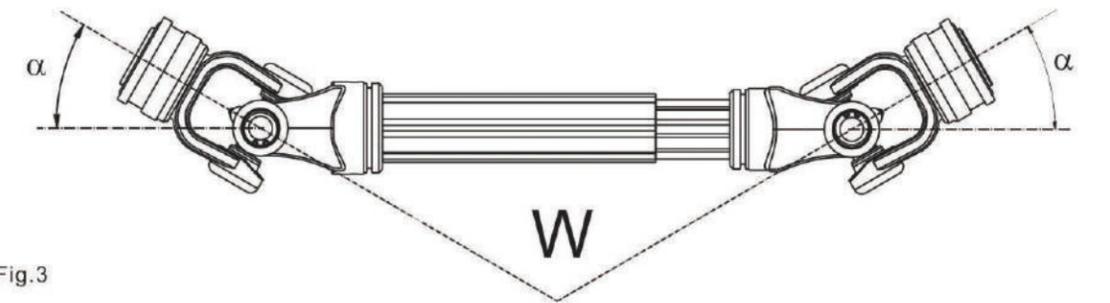
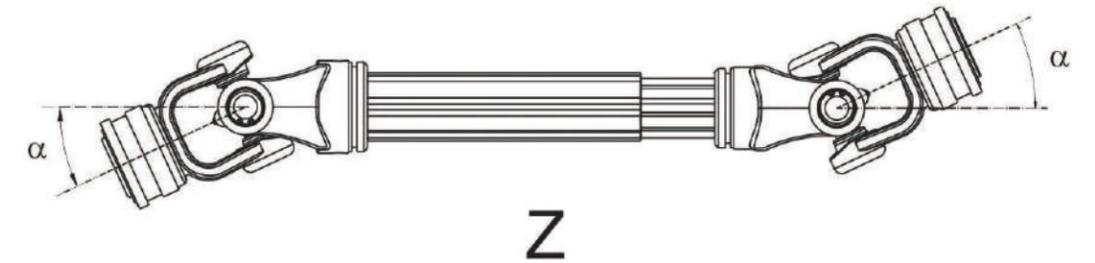


Fig.3

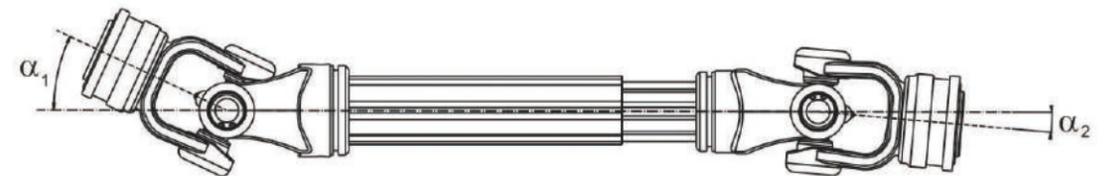


Fig.4

CARDAN JOINT THEORY

The PTO drive shaft for agricultural applications consists of two cardan joints and a telescopic coupling. The cardan joint, consisting of two yokes and a cross, is the element used to transmit the motion between two tilted axles. The cardan joint construction is designed so that during rotation, the speed of the output shaft is not always equal to that of the input shaft and this difference in speed depends on the articulation angle of the joint (Fig.1). The transmission ratio versus the articulation angle and the rotation angle is represented in Fig.2. The more the ratio deviates from 1 the greater becomes the irregularity of the motion, thus generating undesirable effects (vibrations, noise, inertial stress).

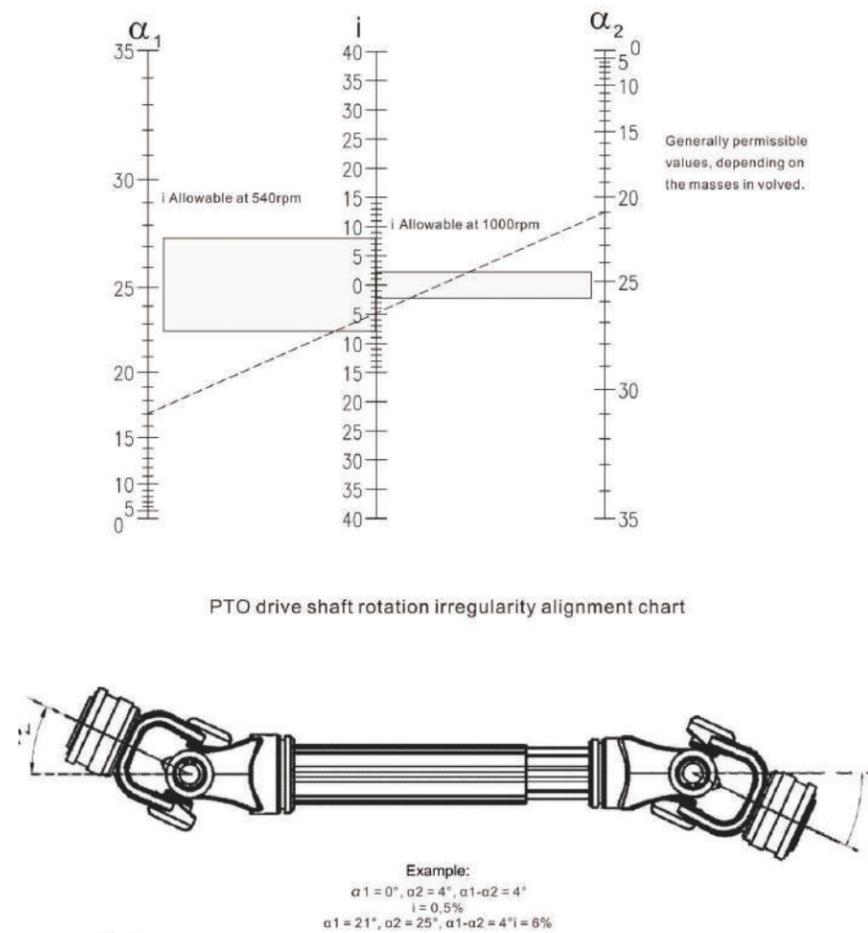


Fig.5

CARDAN JOINT THEORY

The standard PTO drive shaft consists of two cardan joints. The irregularities of the single joints thus can be cancelled or mutually combined. When the articulation angles of the two joints are equal (see configuration W or Z in Fig.3) the transmission is uniform, i.e. the speed of the output yoke is always equal to the speed of the input yoke, thus eliminating the undesirable effects. In all the other angulations (Fig.4), an irregularity always remains that can be evaluated with the graph on the following page (Fig.5).

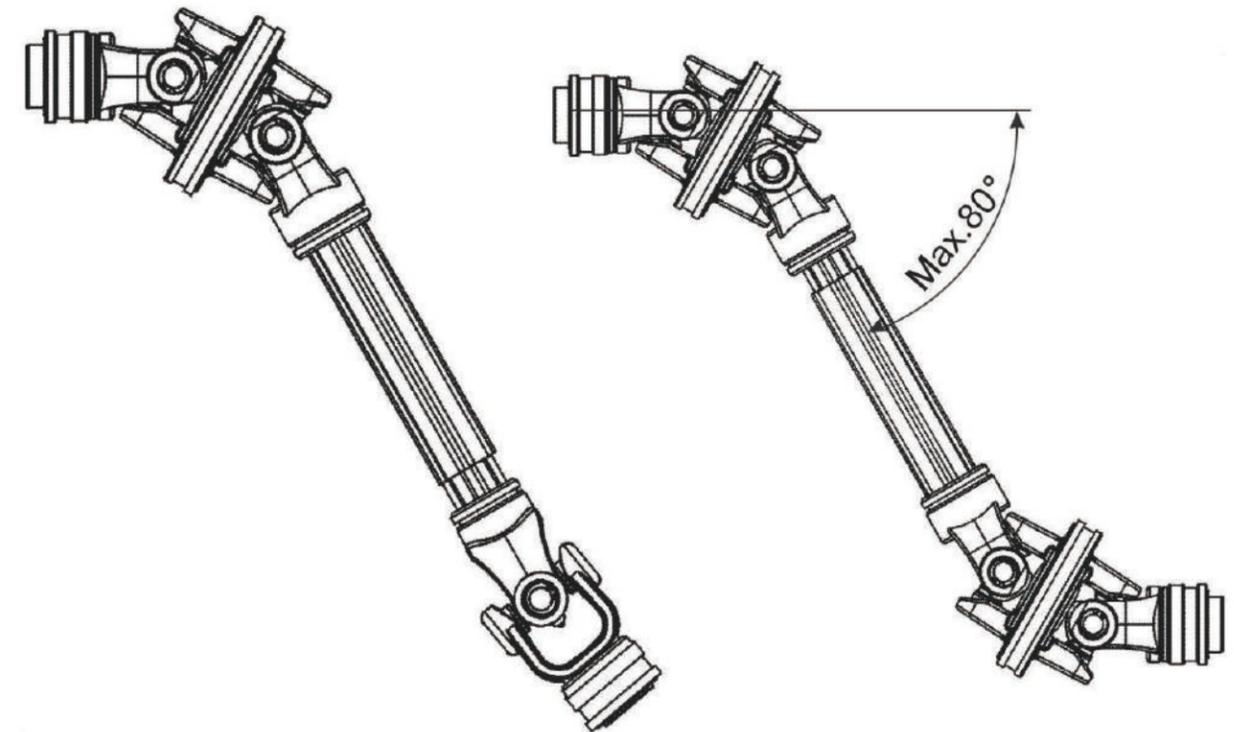
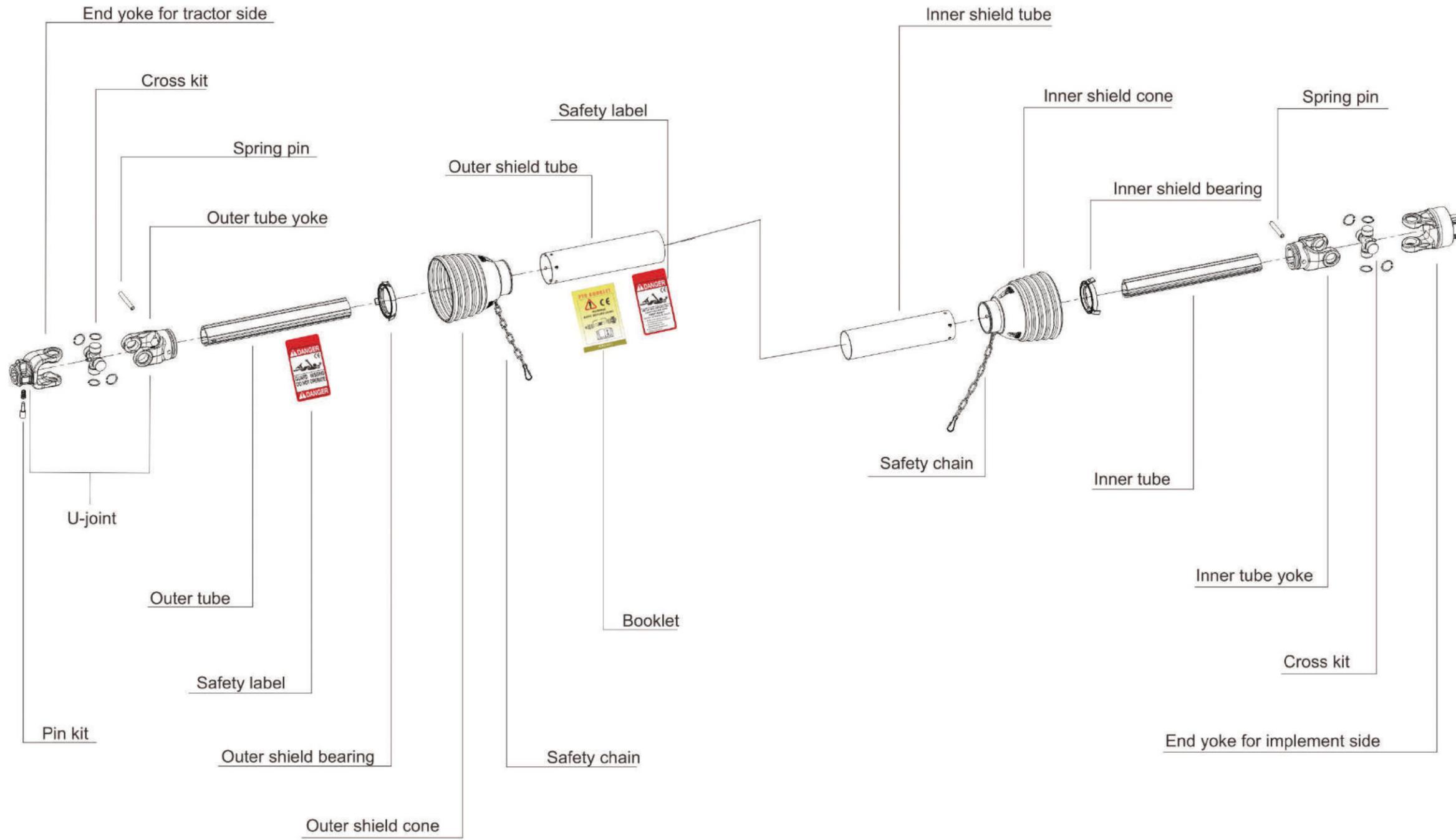


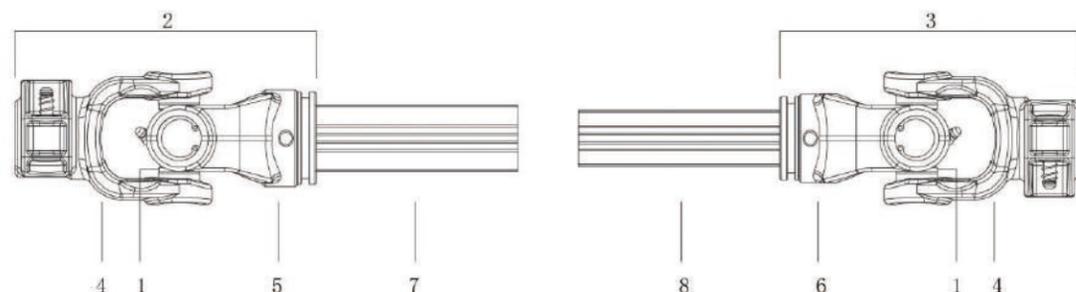
Fig.6

Fig.7

THE STRUCTURE OF PTO SHAFT



PTO DRIVESHAFT T SERIES



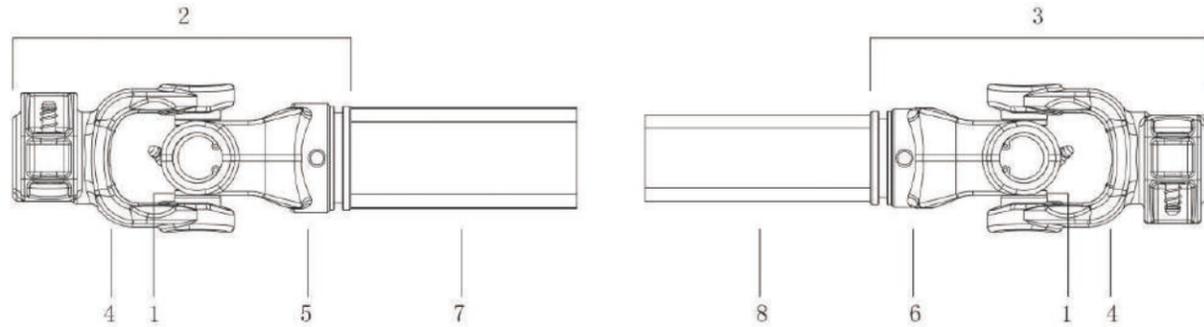
Series	Cross	Joint simple		Splined yoke	Tube yoke		Tube	
		Outer	Inner		Outer	Inner	Outer	Inner
	1	2	3	4	5	6	7	8
T1	1.01 (22*54)	1.0505B+1.01 +1.06	1.0505B+1.01 +1.07	1.0505B	1.06	1.07	1.03	1.04
T2	2.01 (23.8*61.3)	2.0505B+2.01 +2.06	2.0505B+2.01 +2.07	2.0505B	2.06	2.07	2.03	2.04
T3	3.01 (27*70)	3.0505B+3.01 +3.06	3.0505B+3.01 +2.07	3.0505B	3.06	3.07	3.03	3.04
T4	4.01 (27*74.6)	4.0505B+4.01 +4.06	4.0505B+4.01 +4.07	4.0505B	4.06	4.07	4.03	4.04
T5	5.01 (30.2*80)	5.0505B+5.01 +5.06	5.0505B+5.01 +5.07	5.0505B	5.06	5.07	5.03	5.04
T6	6.01 (30.2*92)	6.0505B+6.01 +6.06	6.0505B+6.01 +6.07	6.0505B	6.06	6.07	6.03	6.04
T7	7.01 (30.2*106.5)	7.0505B+7.01 +7.06	7.0505B+7.01 +7.07	7.0505B	7.06	7.07	7.03	7.04
T7N	7N.01 (35*94)	7N.0505B+7N.01 +7N.06	7N.0505B+7N.01 +7N.07	7N.0505B	7N.06	7N.07	7N.03	7N.04
T8	8.01 (35*106.5)	8.0505B+8.01 +8.06	8.0505B+8.01 +8.07	8.0505B	8.06	8.07	8.03	8.04
T38	38.01 (38*105.6)	38.0505B+38.01 +38.06	38.0505B+38.01 +38.07	38.0505B	38.06	38.07	38.03	38.04
T9	9.01 (41*108)	9.0505B+9.01 +9.06	9.0505B+9.01+9.07 +9.07	9.0505B	9.06	9.07	9.03	9.04
T10	10.01 (41*118)	10.0505B+10.01 +10.06	10.0505B+10.01 +10.07	10.0505B	10.06	10.07	10.03	10.04

PTO DRIVESHAFT T SERIES



Operating torque							
Series	540tr./min			1000tr./min			MP (NM)
	Kw	Pk	Nm	Kw	Pk	Nm	
T1	12	16	210	18	25	172	320
T2	15	21	270	23	31	220	450
T3	22	30	390	35	47	330	640
T4	26	35	460	40	55	380	780
T5	35	47	620	54	74	520	1050
T6	47	64	830	74	100	710	1450
T7	55	75	970	87	118	830	1800
T7N	55	75	970	87	118	830	1800
T8	70	95	1240	110	150	1050	2250
T38	78	105	1380	123	166	1175	2500
T9	88	120	1560	140	190	1340	2800
T10	106	145	1905	170	230	1650	3500

PTO DRIVESHAFT L SERIES



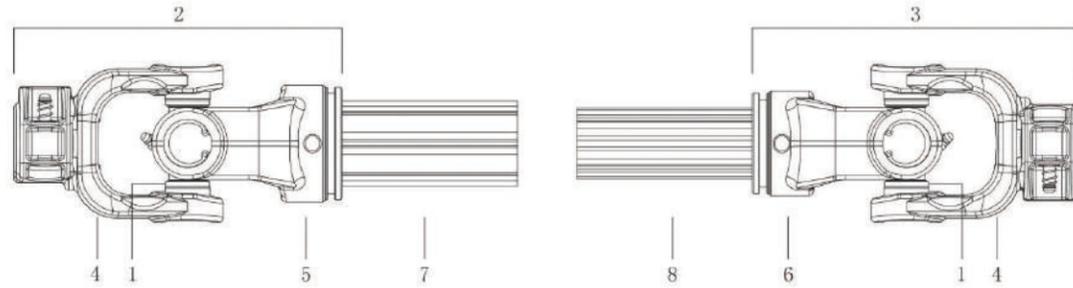
Series	Cross	Joint simple		Splined yoke	Tube yoke		Tube	
		Outer	Inner		Outer	Inner	Outer	Inner
	1	2	3	4	5	6	7	8
L1	1.01 (22*54)	1.0505B+1.01 +1.06L	1.0505B+1.01 +1.07L	1.0505B	1.06L	1.07L	1.03L	1.04L
L2	2.01 (23.8*61.3)	2.0505B+2.01 +2.06L	2.0505B+2.01 +2.07L	2.0505B	2.06L	2.07L	4.03L	4.04L
L3	3.01 (27*70)	3.0505B+3.01 +3.06L	3.0505B+3.01 +2.07L	3.0505B	3.06L	3.07L		
L4	4.01 (27*74.6)	4.0505B+4.01 +4.06L	4.0505B+4.01 +4.07L	4.0505B	4.06L	4.07L	6.03L	6.04L
L5	5.01 (30.2*80)	5.0505B+5.01 +5.06L	5.0505B+5.01 +5.07L	5.0505B	5.06L	5.07L		
L6	6.01 (30.2*92)	6.0505B+6.01 +6.06L	6.0505B+6.01 +6.07L	6.0505B	6.06L	6.07L		
L32	32.01 (32*76)	32.0505B+32.01 +32.06L	32.0505B+32.01 +32.07L	32.0505B	32.06L	32.07L		

PTO DRIVESHAFT L SERIES



Operating torque							
Series	540tr./min			1000tr./min			MP (NM)
	Kw	Pk	Nm	Kw	Pk	Nm	
L1	12	16	210	18	25	172	320
L2	15	21	270	23	31	220	450
L3	22	30	390	35	47	330	640
L4	26	35	460	40	55	380	780
L5	35	47	970	54	74	520	1050
L6	47	64	830	74	100	710	1450
L32	39	53	695	61	83	580	1200

PTO DRIVESHAFT S SERIES



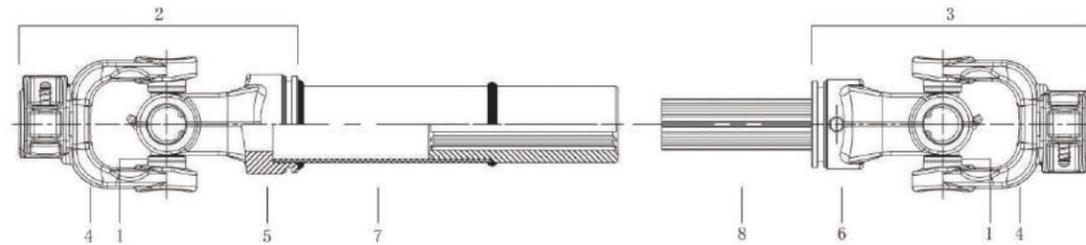
Series	Cross	Joint simple		Splined yoke	Tube yoke		Tube	
		Outer	Inner		Outer	Inner	Outer	Inner
	1	2	3	4	5	6	7	8
S6	6.01 (30.2*92)	6.0505B+6.01 +6.06S	6.0505B+6.01 +6.07S	6.0505B	6.06S	6.07S	1.03L	1.04L
S7	7.01 (30.2*106.5)	7.0505B+7.01 +7.06S	7.0505B+7.01 +7.07S	7.0505B	7.06S	7.07S	6.03ST	6.04ST
S8	8.01 (35*106.5)	8.0505B+8.01 +8.06S	8.0505B+8.01 +8.07S	8.0505B	8.06S	8.07S		
S38	38.0 (38*105.6)	38.0505B+38.01 +38.06S	38.0505B+38.01 +38.07S	38.0505B	38.06S	38.07S		
S32	2400 (32*76)	32.0505B+32.01 +32.06S	32.0505B+32.01 +32.07S	32.0505B	32.06S	32.07S		
S36	2500 (36*89)	36.0505B+36.01 +36.06S	36.0505B+36.01 +36.07S	36.0505B	36.06S	36.07S		
S9	9.01 (41*108)	9.0505B+9.01 +9.06S	9.0505B+9.0 +9.07S	9.0505B	9.06S	9.07S	10.03ST	10.04ST
S10	10.01 (41*118)	10.0505B+10.01 +10.06S	10.0505B+10.01 +10.07S	10.0505B	10.06S	10.07S		
S42	2600 (42*104.5)	42.0505B+42.01 +42.06S	42.0505B+42.01 +42.07S	42.0505B	42.06S	42.07S		
S48	48.01 (48*127)	48.0505B+48.01 +48.06S	48.0505B+48.01 +48.07S	48.0505B	48.06S	48.07S		
S50	50.01 (50*118)	50.0505B+50.01 +50.06S	50.0505B+50.01 +50.07S	50.0505B	50.06S	50.07S		

PTO DRIVESHAFT S SERIES



Series	Operating torque						MP (NM)
	540tr./min			1000tr./min			
	Kw	Pk	Nm	Kw	Pk	Nm	
S6	47	64	830	74	100	710	1450
S7	55	75	970	87	118	830	1800
S8	70	95	1240	110	150	1050	2250
S38	78	105	1380	123	166	1175	2500
S32	39	53	695	61	83	580	1200
S36	66	90	1175	102	139	975	2000
S9	88	120	1560	140	190	1340	2800
S10	106	145	1905	170	230	1650	3500
S42	79	107	1400	122	166	1175	2500
S48	133	180	2390	205	277	1958	4200
S50	119	162	2095	182	248	1740	3700

PTO DRIVESHAFTSERIES



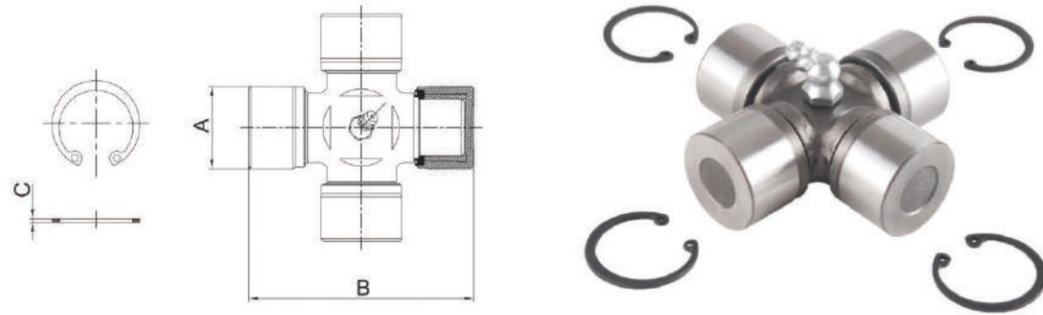
PTO DRIVESHAFTSERIES



Series	Cross	Joint simple		Splined yoke	Tube yoke		Tube	
		Outer	Inner		Outer	Inner	Outer	Inner
	1	2	3	4	5	6	7	8
G2	2.01 (23.8*61.3)	2.0505B+2.01 +2.06G	2.0505B+2.01 +2.07G	2.0505B	2.06G	2.07G	50x2.5	G35-18
G4	4.01 (27*74.6)	4.0505B+4.01 +4.06G	4.0505B+4.01 +4.07G	4.0505B	4.06G	4.07G	50x2.5	G35-18
G5	5.01 (30.2*80)	5.0505B+5.01 +5.06G	5.0505B+5.01 +5.07G	5.0505B	5.06G	5.07G	60X3	G40-14
G6	6.01 (30.2*92)	6.0505B+6.01 +6.06G	6.0505B+6.01 +6.07G	6.0505B	6.06G	6.07G		
G7	7.01 (30.2*106.5)	7.0505B+7.01 +7.06G	7.0505B+7.01 +7.07G	7.0505B	7.06G	7.07G		
G8	8.01 (35*106.5)	8.0505B+8.01 +8.06G	8.0505B+8.01 +8.07G	8.0505B	8.06G	8.07G	65x3.5	G45-16
G38	38.01 (38*105.6)	38.0505B+38.01 +38.06G	38.0505B+38.01 +38.07G	38.0505B	38.06G	38.06G		
G42	2600 (42*104.5)	42.0505B+42.01 +42.06G	42.0505B+42.01 +42.07G	42.0505B	42.06G	42.06G	75X4	G55-20
G50	50.01 (50*118)	50.0505B+50.01 +50.06G	50.0505B+50.01 +50.07G	50.0505B	50.06G	50.06G		

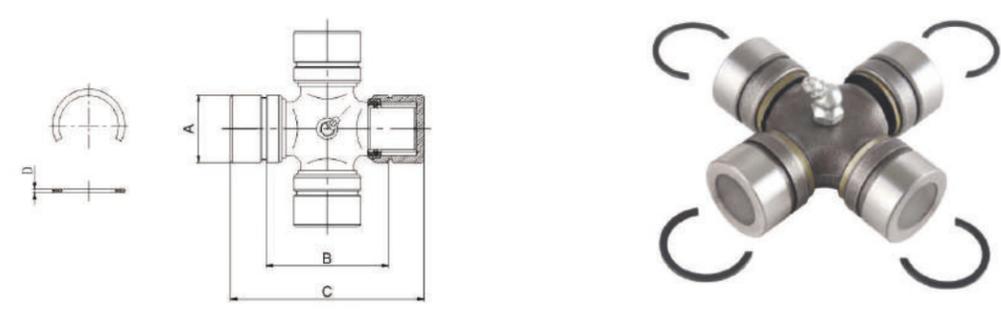
Operating torque							
Series	540tr./min			1000tr./min			MP (NM)
	Kw	Pk	Nm	Kw	Pk	Nm	
G2	15	21	270	23	31	220	450
G4	26	35	460	40	55	380	780
G5	35	47	620	54	74	520	1050
G6	47	64	830	74	100	710	1450
G7	55	75	970	87	118	830	1800
G8	70	95	1240	110	150	1050	2250
G38	78	105	1380	123	166	1175	2500
G42	79	107	1400	122	166	1175	2500
G50	119	162	2095	182	248	1740	3700

CROSS KIT

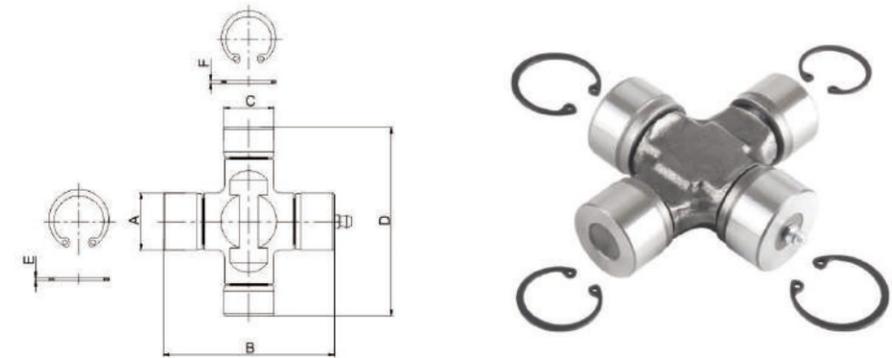


Series	A(mm)	B(mm)	C(mm)
1.01	22	54	1.2
2.01	23.8	61.3	1.2
3.01	27	70	1.2
4.01	27	74.6	1.2
5.01	30.2	80	1.5
32.01	32	76	1.5
6.01	30.2	92	1.5
7.01	30.2	106.5	1.5
7N.01	35	94	1.5
8.01	35	106.5	1.5
38.01	38	105.6	1.5
36.01	36	89	1.5
9.01	41	108	1.75
10.01	41	118	1.75
42.01	42	104.5	1.75
48.01	48	127	1.75
50.01	50	118	2

CROSS KIT



Series	A(mm)	B(mm)	C(mm)	D(mm)
JH32.01	32	57	92	1.5
JH38.01	38	57	101	3



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)
2WA.01	23.8	61.3	22	76	1.2	1.2
4WA.01	27	74.6	23.8	91	1.2	1.2
6WA.01	30.2	92	27	100	1.5	1.2
8WA.01	35	106.5	30.2	106	1.5	1.5
32WA.01	32	76	27	94	1.5	1.2
36WA.01	36	89	32	106	1.5	1.5
42WA.01	42	104.5	36	124	1.75	1.5

TUBE
TRIANGULAR TUBE



Series	Cross Kit	Outer	Inner
1	T1 54 φ22	1.03 2.5 32.4	1.04 3.5 26.6
2	T2 61.3 φ23.8	2.03 3.4 36.1	2.04 4 29
3	T3 70 φ27	3.03 3.3 43.4	3.04 4.4 36.1
4	T4 74.6 φ27		4.04
5	T5 80 φ30.2	5.03 2.9 51.3	5.04 4 44.7
6	T6 92 φ30.2	6.03 3.8 53.6	6.04 4 44.7
7	T7 106.5 φ30.2	7.03 3.8 53.6	7.04 5.5 44.7
8	T8 106.5 φ35	8.03 4 62.7	8.04 5 53.6
9	T9 108 φ41	9.03 4 62.7	9.04 5.5 53.6

TUBE
TRIANGULAR TUBE



Series	Cross Kit	Outer	Inner
1	54 φ22	1.03L 39 30 2.9	1.04L 30.8 23.7 3.5
2	61.3 φ23.8	2.03L	2.04L
3	70 φ27	3.03L 48 41.2 2.9	3.04L 40.1 34.5 4
4	74.6 φ27		4.04L
5	80 φ30.2	5.03L	7.04L
6	92 φ30.2	6.03L 57.5 48 3.8	6.04L 49 39.5 4.5
32	76 φ32		32.03L

STAR TUBE



Series	Cross Kit	Outer	Inner		
6					
7					
7N					
8					
36					
38					
9					
10					
42					
50					

STAR TUBE



Series	Cross Kit	Outer	Inner
2		2.04G	
3		3.04G	
4		4.04G	
5		5.04G	
6		6.04G	
7		7.04G	
7N		7N.04G	
8		8.04G	
36		36.04G	
38		38.04G	
9		9.04G	
10		10.04G	
42		42.04G	
48		48.04G	
50		50.04G	

RECTANGULAR TUBE



Series	Cross Kit	Outer	Inner
1		1.03R 	1.04R
2		2.03R 	2.04R
3		3.03R 	3.04R
4			4.04R
5			5.04R
6		6.03R 	6.04R
32			32.04R

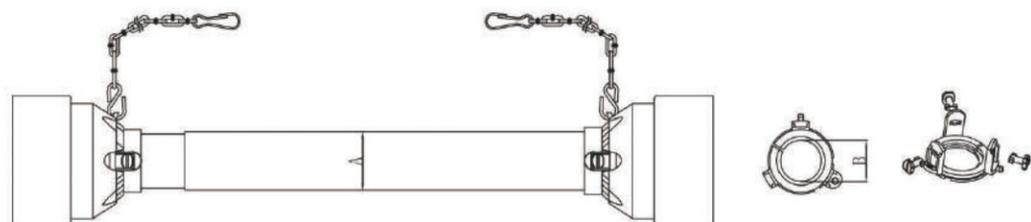
RECTANGULAR TUBE



Series	Cross Kit	Outer	Inner
40HP		HT.03T1 	HT.04T1
50HP		HT.03 	HT.04
80HP			
90HP			

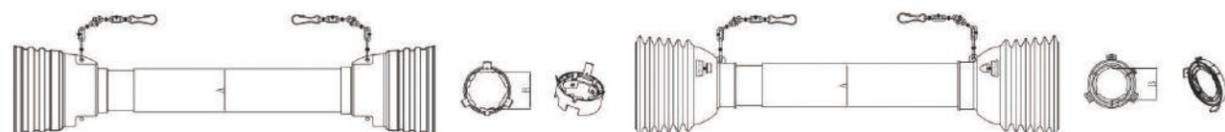
SAFTY SHIELD

SHIELD I



Series	Tube(A)		Retaining collar(B)		Color
	Outer	Inner	Outer	Inner	
1	48.5	54	34	40	Bl:Black Yl:Yellow
N	61	66.5	40	47	
3/4	61	66.5	46	53	
5	75	81	54	62	
6/7/8	75	81	59.5	68.5	
42/48/50	90	96	69.5	81.5	

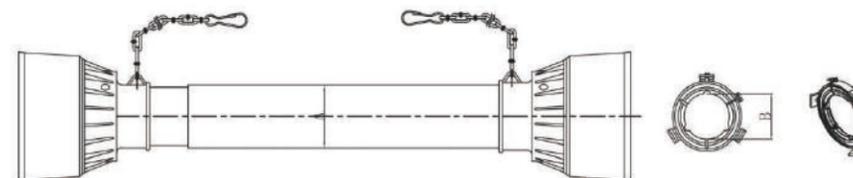
SHIELD II



Series	Tube(A)		Retaining collar(B)		Color
	Outer	Inner	Outer	Inner	
1	48.5	54	34	40	BlII:Black YII:Yellow YBII:Yellow+Black
N	61	66.5	40	47	
3/4	61	66.5	46	53	
5	75	81	54	62	
6/7/8	75	81	59.5	68.5	
42/48/50	90	96	69.5	81.5	

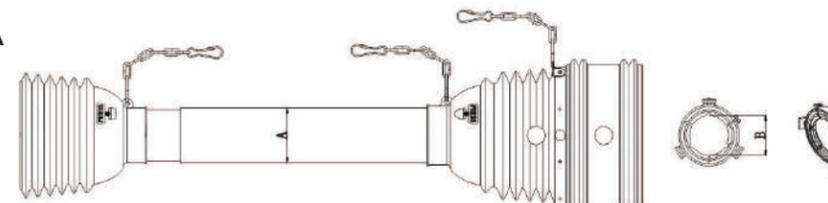
SAFTY SHIELD

SHIELD III



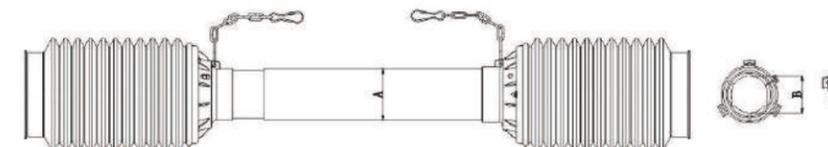
Series	Tube(A)		Retaining collar(B)		Color
	Outer	Inner	Outer	Inner	
1	48.5	54	34	40	BlIII:Black YIII:Yellow
N	61	66.5	40	47	
3/4	61	66.5	46	53	
5	75	81	54	62	
6/7/8	75	81	59.5	68.5	
42/48/50	90	96	69.5	81.5	

SHIELD WA



Series	Tube(A)			Retaining collar(B)			Color
	Outer	Inner	Outer	Inner	C	D	
4	61	66.5	46	53	117	210	BWA:Black YWA:Yellow YBWA:Yellow+Black
6/32/36	75	81	59.5	68.5	123	225	
8	75	81	62.5	72.5	127	245	

SHIELD N

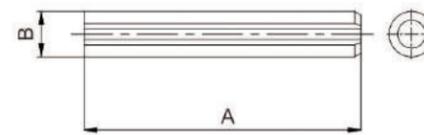


Series	Tube(A)		Retaining collar(B)		Color
	Outer	Inner	Outer	Inner	
1	48.5	54	34	40	BlIII:Black YIII:Yellow
N	61	66.5	40	47	
3/4	61	66.5	46	53	
5	75	81	54	62	
6/7/8	75	81	59.5	68.5	
42/48/50	90	96	69.5	81.5	

PUSH PIN & TAPER PIN

Reference	L(mm)	Drawings
00.0201x47	47	
00.0201x44.5	44.5	
00.0201x59	59	
00.0201x56	56	
00.0202x76.5	76.5	
00.0202*68	68	
00.0202x73	73	
00.0202x83	83	
00.0202x85	85	
00.0202*88	88	
00.0203x85	85	
00.0204x69	69	
00.0205x43	43	
00.0206*54	54	
00.0207*85	85	
00.0208x85	85	
00.0208x77	77	
00.0209x91	91	
00.0210x77	77	
00.0210x75	75	

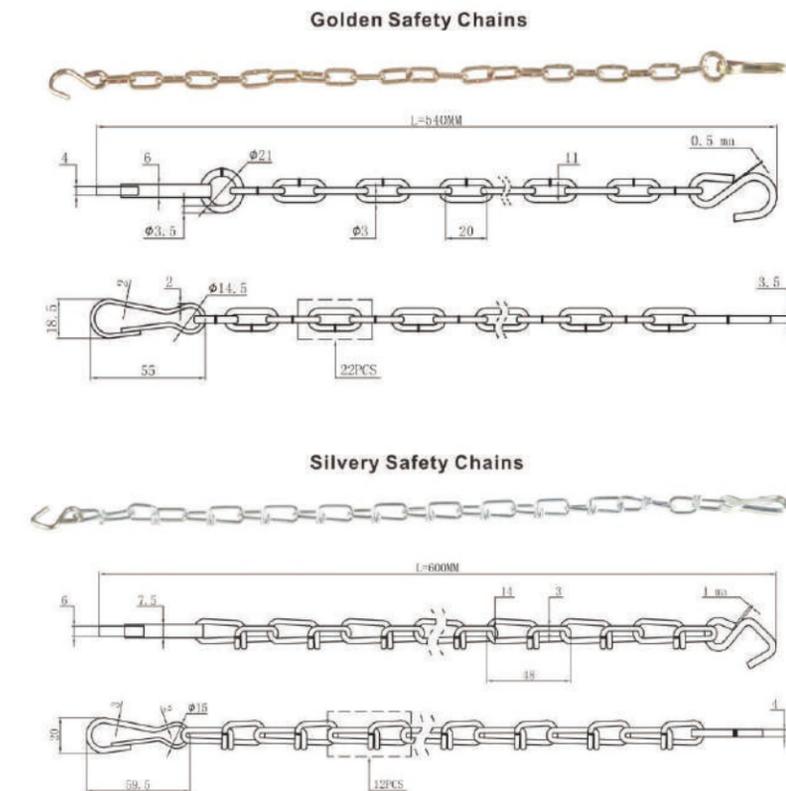
PUSH PIN & TAPER PIN

For Tube	A(mm)	B(mm)
1.04	45	φ8
2.04	50	
3.04	55	
4.04	55	
5.04	65	φ10
6.04	70	
7.04	70	
8.04	90	

For Tube	A(mm)	B(mm)
1.03	50	φ8
2.03	55	
3.03	60	
4.03	60	
5.03	70	φ10
6.03	75	
7.03	75	
8.03	90	

SAFETY CHAINS



CODE EXPLANATION

For example

T - 4 - YB - II - P - 4.0505B - 4FFV1 * L
 ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓
 1 2 3 4 5 6 7 8



- 1: The Types of Tubes (e.g.:T;L;ST;G)
- 2: The Series of Cross Kits
- 3: The Code of Color (YB=Yellow+Black)
- 4: The Code of Safety Shield Structure
- 5: Connection Method: Pin Connected
- 6: The Tractor End Yokes
- 7: The Implement End Yokes
- 8: Minimum Overall Length

CODE FORU-JOINT

Forexample

4.0501B + 4.01 + 4.06
 ↓ ↓ ↓
 1 2 3

- 1: One end voke
- 2: The series of cross kits
- 3: The other end yoke



4.0501B+4.01+4.06

TUBE AND SPLINED YOKE

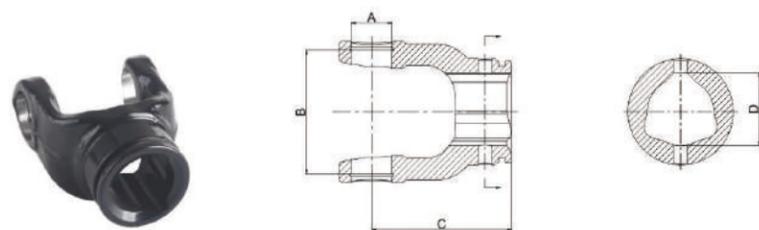
OUTER TUBE YOKE-06 INNER TUBE YOKE-07	
OUTER TUBE YOKE-06L INNER TUBE YOKE-07L	
OUTER TUBE YOKE-06ST INNER TUBE YOKE-07ST	
SPLINED YOKE 01 -PUSH PIN	
SPLINED YOKE 02 -INTERFERING BOLT	
SPLINED YOKE 03 -NON-INTERFERING BOLT	
SPLINED YOKE 04 -BALL ATTACHMENT	
SPLINED YOKE 05 -PUSH PIN	
SPLINED YOKE 07 -PUSH PIN	
SPLINED YOKE 08 -PUSH PIN	
SPLINED YOKE 11 -DOUBLE PUSH PIN	
SPLINED YOKE 13 -COLLAR	

PLAIN BORE YOKE

PLAIN BORE YOKE A -PIN HOLE	
PLAIN BORE YOKE B -KEYWAY	
PLAIN BORE YOKE C -KEYWAY & THREADED HOLE	
PLAIN BORE YOKE D -KEYWAY & CLAMP BOLT	
PLAIN BORE YOKE E -MULTIPLE PIN HOLES	
PLAIN BORE YOKE F -VERTICAL PIN HOLE	
PLAIN BORE YOKE H -PIN HOLE & THREADED HOLE	
ROUND HOLE YOKE -FOUR CORNER	

YOKE

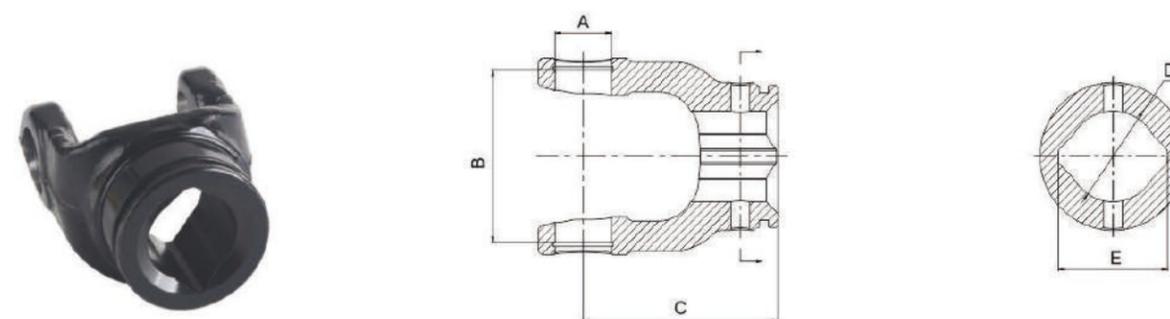
TRIANGULAR YOKE



Series	A(mm)	B(mm)	C(mm)	D(mm)
1.06	22	54	77	32.4
1.07	22	54	77	26.6
2.06	23.8	61.3	82	36.1
2.07	23.8	61.3	82	29
3.06	27	70	90	43.4
3.07	27	70	90	36.1
4.06	27	74.6	90	43.4
4.07	27	74.6	90	36.1
5.06	30.2	80	98	51.3
5.07	30.2	80	98	44.7
32.06	32	76	98	51.3
32.07	32	76	98	44.7
6.06	30.2	92	104	53.6
6.07	30.2	92	104	44.7
7.06	30.2	106.5	117	53.6
7.07	30.2	106.5	117	44.7
7N.06	35	94	106	53.6
7N.07	35	94	106	44.7
36.06	36	89	106	53.6
36.07	36	89	106	44.7
8.06	35	106.5	121	62.7
8.07	35	106.5	121	53.6
38.06	38	105.6	121	62.7
38.07	38	105.6	121	53.6
9.06	41	108	130	62.7
9.07	41	108	130	53.6
10.06	41	118	125	62.7
10.07	41	118	125	53.6

YOKE

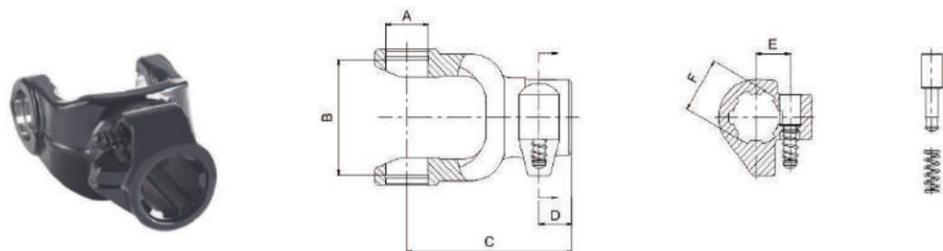
TRIANGULAR YOKE



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
1.06L	22	54	77	30	39
1.07L	22	54	77	23.7	30.8
2.06L	23.8	61.3	82	41.2	48
2.07L	23.8	61.3	82	34.5	40.1
3.06L	27	70	90	41.2	48
3.07L	27	70	90	34.5	40.1
4.06L	27	74.6	90	41.2	48
4.07L	27	74.6	90	34.5	40.1
5.06L	30.2	80	98	48	57.5
5.07L	30.2	80	98	39.5	49
32.06L	32	76	98	48	57.5
32.07L	32	76	98	39.5	49
6.06L	30.2	92	104	48	57.5
6.07L	30.2	92	104	39.5	49
7N.06L	35	94	106	48	57.5
7N.07L	35	94	106	39.5	49
36.06L	36	89	106	48	57.5
36.07L	36	89	106	39.5	49

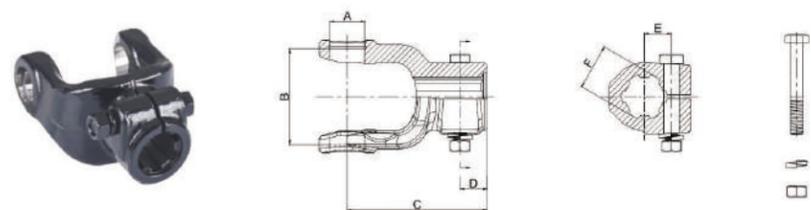
YOKE

SPLINED YOKE 01-PUSH PIN



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)
1.0501B	22	54	93	21	22	13/8"Z6
2.0501B	23.8	61.3	99	21		
3.0501B	27	70	104	21		
4.0501B	27	74.6	106	21		
5.0501B	30.2	80	110	21		
32.0501B	32	76	110	21		
6.0501B	30.2	92	115	21		
7.0501B	30.2	106.5	130	21		
8.0501B	35	106.5	130	21		
38.0501B	38	105.6	130	21		

SPLINED YOKE 02-INTERFERING BOLT



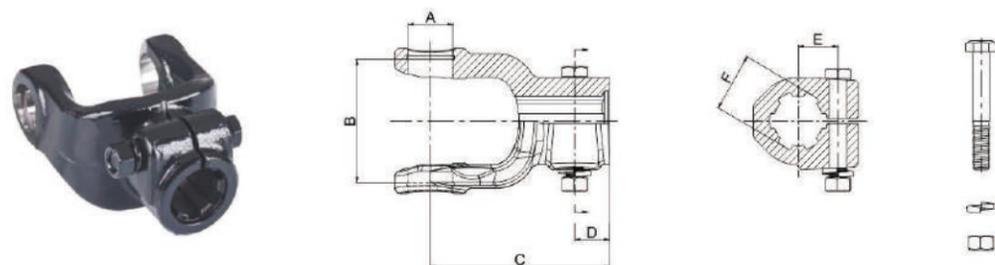
Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)
1.0502B	22	54	93	23	21	13/8"Z6
1.0502D					22.8	13/8"Z21
1.0502G					21	8-32x38x6
2.0502B	23.8	61.3	102	21	21	13/8"Z6
2.0502D					22.8	13/8"Z2
2.0502G					21	18-32x38x6
3.0502B	27	70	108	21	21	13/8"Z6
3.0502D					22.8	13/8"Z21
3.0502G					21	8-32x38x6
4.0502B	27	74.6	108	21	21	13/8"Z6
4.0502D					22.8	1 3/8"Z21
4.0502G					21	8-32x38x6

GEARYOKE

Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)
5.0502B	30.2	80	108	21	21	13/8"Z6
5.0502D					22.8	13/8"Z21
5.0502G					21	8-32x38x6
32.0502B	30	76	108	21	21	13/8"Z6
32.0502D					22.8	13/8"Z21
32.0502G					21	8-32x38x6
6.0502B	30.2	92	118	23	21	13/8"Z6
6.0502D					22.8	1 3/8"Z21
6.0502G			26	8-32x38x6		
6.0502C			118	26	13/4"Z6	
6.0502E			22	26	13/4"Z20	
7.0502B	30.2	106.5	130	25	21	13/8"Z6
7.0502D					22.8	13/8"Z21
7.0502G					21	8-32x38x6
36.0502B	36	89	122	21	21	13/8"Z6
36.0502D					22.8	13/8"Z21
36.0502G			26	8-32x38x6		
36.0502C			122	26	13/4"Z6	
36.0502E			21	26	13/4"Z20	
7N.0502B	35	94	122	21	21	13/8"Z6
7N.0502D					22.8	13/8"Z21
7N.0502G			21	8-32x38x6		
7N.0502C			122	26	13/4"Z6	
7N.0502E			21	26	13/4"Z20	
8.0502B	35	106.5	130	25	21	13/8"Z6
8.0502D					22.8	1 3/8"Z21
8.0502G					21	8-32x38x6
8.0502C			130	26	13/4"Z6	
8.0502E			25	26	13/4"Z20	
8.0502G			21	26	13/4"Z20	

YOKE

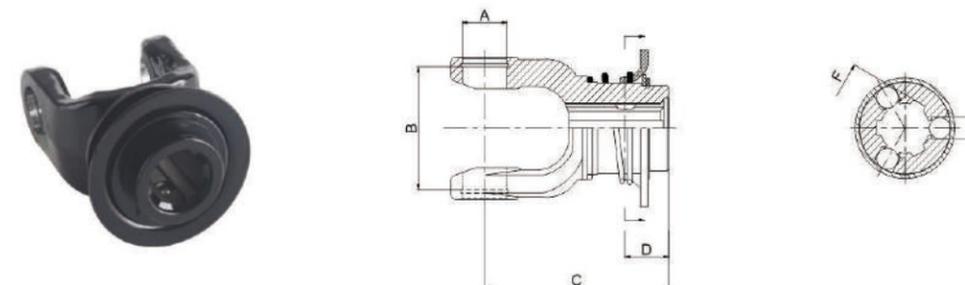
SPLINED YOKE 03 -NON-INTERFREING BOLT



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)
1.0503B	22	54	93	23	23.5	13/8"Z6
1.0503D						13/8"Z21
2.0503B	23.8	61.3	102	21	23.5	13/8"Z6
2.0503D						13/8"Z21
3.0503B	27	70	108	21	23.5	13/8"Z6
3.0503D						13/8"Z21
4.0503B	27	74.6	108	21	23.5	13/8"Z6
4.0503D						13/8"Z21
5.0503B	30.2	80	108	21	25	13/8"Z6
5.0503D						13/8"Z21
32.0503B	32	76	108	21	25	1 3/8" Z6
32.0503D						13/8"Z21
6.0503B	30.2	92	118	23	25	1 3/8" Z6
6.0503D						13/8"Z21
7.0503B	30.2	106.5	130	25	25	13/8"Z6
7.0503D						13/8"Z21
7N.0503B	35	94	122	21	25	13/8"Z6
7N.0503D						13/8"Z21
8.0503B	35	106.5	130	25	25	13/8"Z6
8.0503D						13/8"Z21
8.0503C			130		30	13/4"Z6
8.0503E						13/4"Z20
36.0503B	36	89	122	21	25	13/8"Z6
36.0503D						13/8"Z21

GEARYOKE

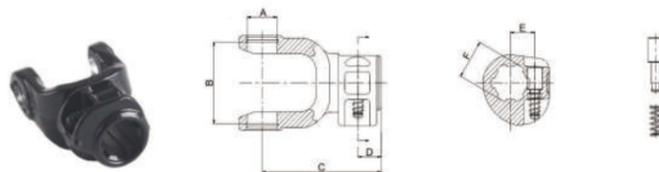
SPLINED YOKE 04 -NON-INTERFREING BOLT



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	
1.0504B	22	54	100	26	φ13	13/8"Z6	
1.0504D						13/8"Z21	
2.0504B	23.8	61.3	102	26	φ13	13/8"Z6	
2.0504D						13/8"Z21	
3.0504B	27	70	111	26	φ13	13/8"Z6	
3.0504D						13/8"Z21	
4.0504B	27	74.6	111	26	φ13	13/8"Z6	
4.0504D						13/8"Z21	
5.0504B	30.2	80	117	26	φ13	13/8"Z6	
5.0504D						13/8"Z21	
32.0504B	32	76	117	26	φ13	1 3/8" Z6	
32.0504D						13/8"Z21	
6.0504B	30.2	92	123	26	φ13	1 3/8" Z6	
6.0504D						13/8"Z21	
6.0504C			148	34		φ16	13/8"Z6
6.0504E							13/8"Z21
7.0504B	30.2	106.5	137	26	φ13	13/8"Z6	
7.0504D						13/8"Z21	
7N.0504B	35	94	123	26	φ13	13/8"Z6	
7N.0504D						13/8"Z21	
8.0504B	35	106.5	130	26	φ13	13/4"Z6	
8.0504D						13/4"Z20	
6.0504C			159	34		φ16	13/8"Z6
6.0504E							13/8"Z21

YOKE

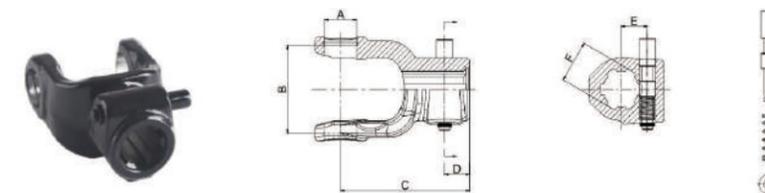
SPLINED YOKE 05 -NON-INTERFREING BOLT



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)
1.0505B	22	54	93	21	22	13/8"Z6
1.0505D						13/8"Z21
1.0505G						8-32X38X6
2.0505B	23.8	61.3	99	21	22	13/8"Z6
2.0505D						13/8"Z21
2.0505G						8-32X38X6
3.0505B	27	70	102	21	22	13/8"Z6
3.0505D						13/8"Z21
3.0505G						8-32X38X6
4.0505B	27	74.6	108	21	22	13/8"Z6
4.0505D						1 3/8"Z21
4.0505G						8-32X38X6
5.0505B	30.2	80	111	21	22	1 3/8"Z6
5.0505D						1 3/8"Z21
5.0505G						8-32X38X6
32.0505B	32	76	111	21	22	13/8"Z6
32.03205D						13/8"Z21
32.03205G						8-32X38X6
6.0505B	30.2	92	117	21	22	13/8"Z6
6.0505D						13/8"Z21
6.0505G						8-32X38X6
7.0505B	30.2	106.5	130	21	22	13/8"Z6
7.0505D						13/8"Z21
7.0505G						8-32X38X6
36.0505B	36	89	119	21	22	13/8"Z6
36.0505D						1 3/8"Z21
36.0505G						8-32X38X6
7N.0505B	35	94	119	21	22	13/8"Z6
7N.0505D						13/8"Z21
7N.0505G						8-32X38X6
8.0505B	35	106.5	130	21	22	13/8"Z6
8.0505D						13/8"Z21
8.0505G						8-32X38X6

GEARYOKE

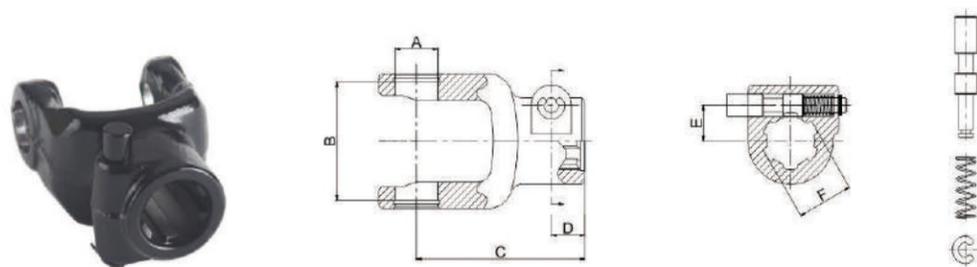
SPLINED YOKE 07 -NON-INTERFREING BOLT



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)
1.0507B	22	54	93	23	22	13/8"Z6
1.0507D						13/8"Z21
1.0507G						8-32X38X6
2.0507B	23.8	61.3	102	21	22	13/8"Z6
2.0507D						13/8"Z21
2.0507G						8-32X38X6
3.0507B	27	70	108	21	22	13/8"Z6
3.0507D						13/8"Z21
3.0507G						8-32X38X6
4.0507B	27	74.6	108	21	22	13/8"Z6
4.0507D						13/8"Z21
4.0507G						8-32X38X6
5.0507B	30.2	80	108	21	22	13/8"Z6
5.0507D						13/8"Z21
5.0507G						8-32X38X6
32.0507B	32	76	108	21	22	13/8"Z6
32.0507D						13/8"Z21
32.0507G						8-32X38X6
6.0507B	30.2	92	30.2	30.2	22	13/8"Z6
6.0507D						13/8"Z21
6.0507G			8-32X38X6			
6.0507C	30.2	92	30.2	30.2	26.5	13/4"Z6
6.0507E						13/4"Z20
7.0507B	30.2	30.2	30.2	30.2	22	13/8"Z6
7.0507D						13/8"Z21
7.0507G						8-32X38X6
8.0507B	30.2	30.2	30.2	30.2	22	13/8"Z6
8.0507D						13/8"Z21
8.0507G						8-32X38X6
8.0507C	30.2	30.2	30.2	30.2	26.5	13/4"Z6
8.0507E						13/4"Z20

YOKE

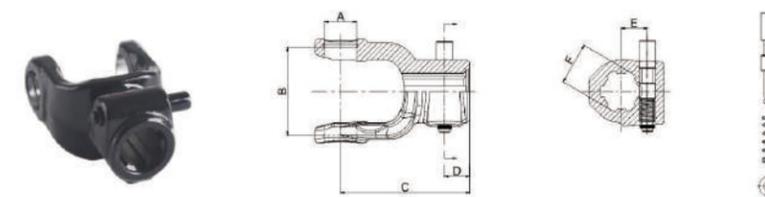
SPLINED YOKE 08-PUSH PIN



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)
1.0508B	22	54	89	14	22	13/8"Z6
1.0508D						13/8"Z21
2.0508B	23.8	61.3	100	20	22	13/8"Z6
2.0508D						13/8"Z21
3.0508B	27	70	102	22	22	13/8"Z6
3.0508D						13/8"Z21
4.0508B	27	74.6	108	21	22	13/8"Z6
4.0508D						13/8"Z21
5.0508B	30.2	80	111	20	22	13/8"Z6
5.0508D						13/8"Z21
32.0508B	32	76	111	20	22	13/8"Z6
32.0508D						13/8"Z21
6.0508B	30.2	92	118	21	22	13/8"Z6
6.0508D						13/8"Z21
6.0508C	30.2	92	124	24	26.5	13/4"Z6
6.0508E						13/4"Z20
7.0508B	30.2	106.5	125	24	22	13/8"Z6
7.0508D						13/8"Z21

GEARYOKE

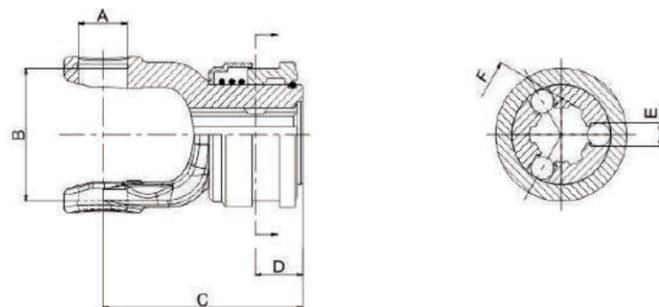
SPLINED YOKE 07 -NON-INTERFREING BOLT



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)
6.0511B	30.2	92	121	21	22	13/8"Z6
6.0511D			121			13/8"Z21
6.0511G	30.2	92	121	21	23.8	8-32X38X6
6.0511C			121			13/4"Z6
36.0511B	36	89	121	21	22	13/8"Z6
36.0511D			121			1 3/8"Z21
36.0511G	36	89	121	21	23.8	8-32X38X6
36.0511C						121
36.0511E	36	89	121	21	26.5	13/4"Z20
7.0511B						121
7.0511D	30.2	106.5	128	21	22	1 3/8"Z21
7.0511G						128
8.0511B	35	106.5	128	21	22	13/8"Z6
8.0511D						128
8.0511G	35	106.5	128	21	23.8	8-32X38X6
8.0511C						128
8.0511E	35	106.5	128	21	26.5	13/4"Z20
10.0511B						128
10.0511D	41	118	140	28	22	13/8"Z21
10.0511G						140
10.0511C	41	118	140	28	23.8	1 3/4"Z6
10.0511E						140
42.0511B	42	104.5	138	21	22	13/8"Z6
42.0511D						138
42.0511G	42	104.5	138	21	23.8	8-32X38X6
42.0511C						138
42.0511E	42	104.5	138	21	26.5	13/4"Z20
50.0511B						138
50.0511D	50	118	145	21	22	13/8"Z21
50.0511G						145
50.0511C	50	118	145	21	23.8	13/4"Z6
50.0511E						145

YOKE

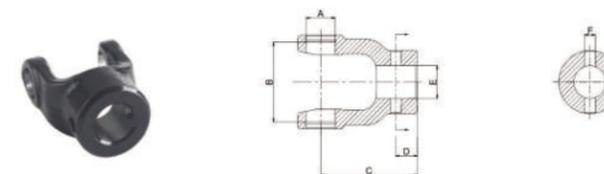
SPLINED YOKE 13-WITH COLLAR



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)
1.0513B	22	54	100	26	φ13	13/8"Z6
1.0513D						13/8"Z21
2.0513B	23.8	61.3	102	26	φ13	13/8"Z6
2.0513D						13/8"Z21
3.0513B	27	70	111	26	φ13	1 3/8"Z6
3.0513D						13/8"Z21
4.0513B	27	74.6	111	26	φ13	13/8"Z6
4.0513D						13/8"Z21
5.0513B	30.2	80	117	26	φ13	13/8"Z6
5.0513D						13/8"Z21
6.0513B	30.2	92	123	26	φ13	13/8"Z6
6.0513D				26		13/8"Z21
6.0513C				26	φ13	13/8"Z6
6.0513E				26	φ13	13/8"Z21
7.0513B	30.2	106.5	137	26	φ13	1 3/8"Z6
7.0513D						13/8"Z21
36.0513B	36	89	123	26	φ13	13/8"Z6
36.0513D						13/8"Z21
7N.0513B	35	94	123	26	φ13	13/8"Z6
7N.0513D						13/8"Z21
8.0513B	35	106.5	137	26	φ13	13/8"Z6
8.0513D						13/8"Z21
8.0513C	35	106.5	137	26	φ13	13/4"Z6
8.0513E						13/4"Z20

GEARYOKE

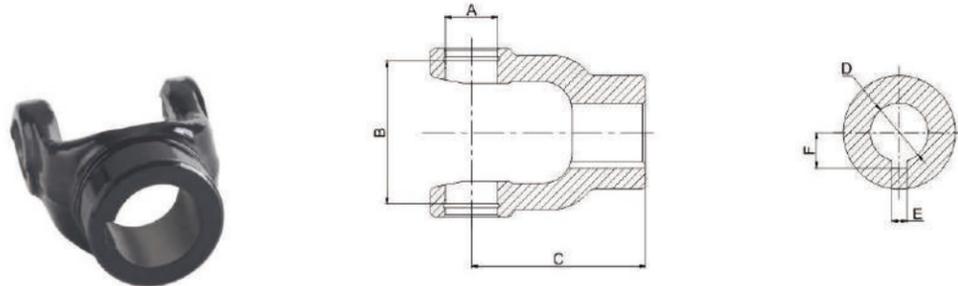
PLAIN BORE YOKE A-PIN HOLE



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)
1.05A20	22	54	77	20	20	6
1.05A22					22	8
1.05A25					25	8
1.05A30					30	10
1.05A31.8					31.8	10
2.05A20	23.8	61.3	82	20	20	6
2.05A22					22	8
2.05A25					25	8
2.05A30					30	10
3.05A22	27	70	90	20	22	8
3.05A25					25	8
3.05A30					30	10
3.05A35					35	13
4.05A22					27	74.6
4.05A25	25	8				
4.05A30	30	10				
4.05A31.8	25	31.8	10			
4.05A35		35	13			
5.05A30		30	10			
5.05A35	30.2	80	98	20	35	13
5.05A40					40	13
6.05A30	30.2	92	104	20	30	10
6.05A35					35	10
6.05A40					40	13
6.05A42					42	13
7.05A35	30.2	106.5	117	25	35	13
7.05A40					40	
7.05A42					42	
7.05A45					45	
8.05A35					35	
8.05A40	40					
8.05A42	42					
8.05A45	45					

YOKE

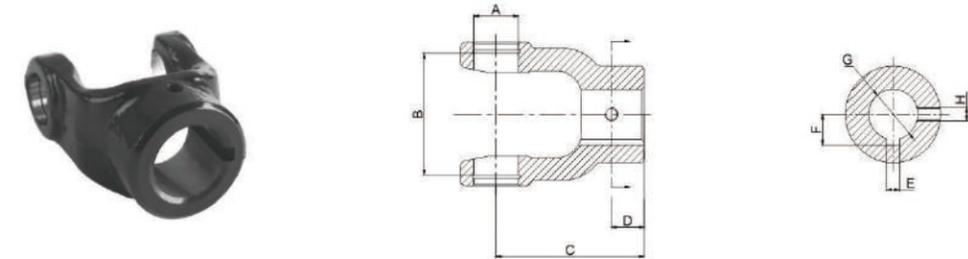
PLAIN BORE YOKE B-KEYWAY



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)			
1.05B20	22	54	77	20	6	12.8			
1.05B22				22		13.8			
1.05B25				25	8	15.8			
1.05B30				30		18.3			
2.05B20	23.8	61.3	82	20	6	12.8			
2.05B22				22		13.8			
2.05B25				25	8	15.8			
3.05B22				22		6	13.8		
3.05B25	27	70	90	25	8	15.8			
3.05B30				30		8	18.3		
3.05B35				35	10		20.8		
4.05B22				27	74.6	90	22	6	13.8
4.05B25	25	8	15.8						
4.05B30	30		8				18.3		
4.05B35	35	10					20.8		
5.05B30	30.2	80	98	30	8	18.3			
5.05B35				35		10	20.8		
5.05B40				40	12		23.3		
6.05B30				30.2	92	104	30	8	18.3
6.05B35	35	10	20.8						
6.05B40	40		12				23.3		
6.05B42	42	12					24.3		
7.05B35	30.2	106.5	117				35	10	20.8
7.05B40							40		12
7.05B42				42	12	24.3			
7.05B45				45	14	26.3			
8.05B35	35	106.5	121	35	10	20.8			
8.05B40				40		12	23.3		
8.05B42				42	12		24.3		
8.05B45				45	14	26.3			

GEARYOKE

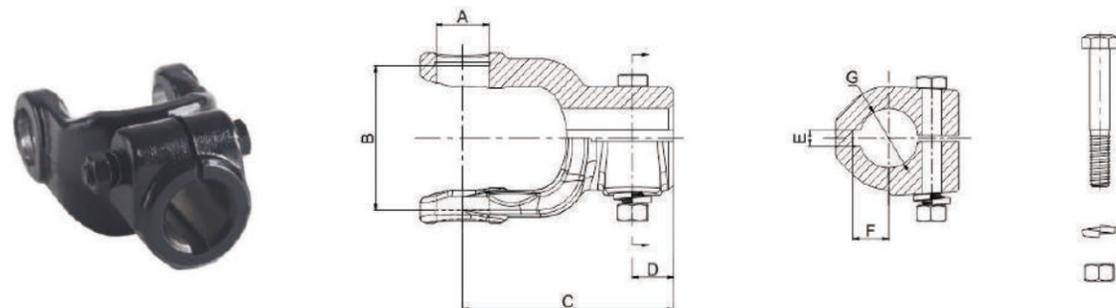
PLAIN BORE YOKE C-KEYWAY & THREADED HOLE



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	G(mm)	H(mm)				
1.05C20	22	54	77	20	6	12.8	20	M6				
1.05C22					8	13.8	22					
1.05C25					8	15.8	25	M8				
1.05C30					8	18.3	30					
2.05C20	23.8	61.3	82	20	8	12.8	20	M6				
2.05C22					8	13.8	22					
2.05C25					8	15.8	25	M8				
2.05C30					8	18.3	30					
3.05C22	27	70	90	15	6	13.8	22	M6				
3.05C25				20	8	15.8	25	M8				
3.05C30				20	8	18.3	30					
3.05C35				20	10	20.8	35	M10				
4.05C22	27	74.6	90	20	6	13.8	22	M6				
4.05C25					8	15.8	25	M8				
4.05C30					8	18.3	30					
4.05C35					10	20.8	35	M10				
5.05C30					30.2	80	98	20	8	18.3	30	M8
5.05C35									10	20.8	35	M10
5.05C40	12	23.3	40	M12								
6.05C30	30.2	92	104	20					8	18.3	30	M8
6.05C35					10	20.8	35	M10				
6.05C40					12	23.3	40	M12				
6.05C42					12	24.3	42					
7.05C35					30.2	106.5	117	25	10	20.8	35	10
7.05C40									12	23.3	40	12
7.05C42	12	24.3	42									
7.05C45	14	26.3	45	14								
8.05C35	35	106.5	121	25	10	20.8	35	M10				
8.05C40					12	23.3	40	M12				
8.05C42					12	24.3	42					
8.05C45					14	26.3	45	M14				

YOKE

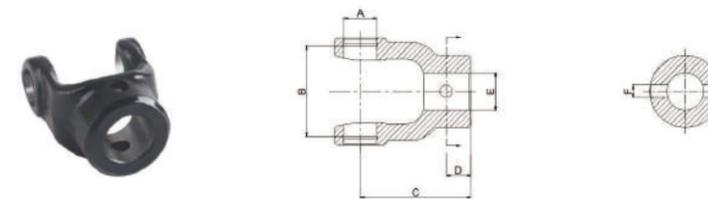
PLAIN BORE YOKE D-KEYWAY & CLAMP BOLT



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	G(mm)
1.05D20	22	54	93	21		12.8	20
1.05D30					8	18.3	30
1.05D32					10	19.3	32
2.05D25	23.8	61.3	102	21	8	15.8	25
2.05D30					10	18.3	30
2.05D32					8	19.3	32
3.05D25	27	70	108	21	12	15.8	25
3.05D32						19.3	32
3.05D35					8	20.8	35
4.05D25	27	74.6	108	21	10	15.8	25
4.05D32						19.3	32
4.05D38					10	22.3	38
5.05D32	30.2	80	108	21	8	19.3	32
5.05D35						20.8	30
6.05D30					10	18.3	35
6.05D32	30.2	92	118	21	12	19.3	32
6.05D38					14	22.3	38
6.05D45					6	26.3	45
6.05D50						28.8	50
7.05D30					8	18.3	30
7.05D35	30.2	106.5	130	25	10	20.8	35
7.05D40					12	23.3	40
8.05D30					8	18.3	30
8.05D35	35	106.5	130	25	10	20.8	35
8.05D40					12	23.3	40
8.05D45					14	26.3	45

GEARYOKE

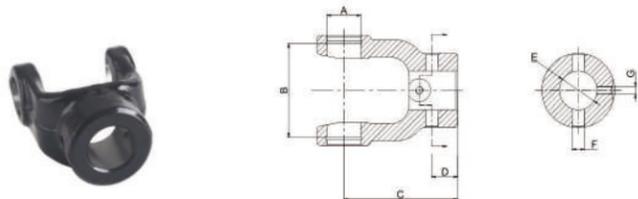
PLAIN BORE YOKE C-KEYWAY & THREADED HOLE



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)
1.05F20	22	54	77	15	20	6
1.05F22					22	8
1.05F25					25	8
1.05F30				30	10	
1.05F31.8				18.5	31.8	
2.05F20	23.8	61.3	82	15	20	6
2.05F22					22	8
2.05F25					25	10
2.05F30				30	10	
3.05F22	27	70	90	15	22	8
3.05F25				25	10	
3.05F30				20	30	10
3.05F35					35	13
4.05F22				27	74.6	90
4.05F25	25	10				
4.05F30	30	10				
4.05F31.8	31.8					
4.05F35	35					
5.05F30	30.2	80	98	20	30	13
5.05F35					35	10
5.05F40					40	13
6.05F30	30.2	92	104	20	30	10
6.05F35					35	10
6.05F40					40	13
6.05F42					42	13
7.05F35					30.2	106.5
7.05F40	40	13				
7.05F42	42	13				
7.05F45	45	13				
8.05F35	35	106.5	121	25		
8.05F40					40	13
8.05F42					42	13
8.05F45					45	13

YOKE

PLAIN BORE YOKE H-PIN HOLE & THREADED HOLE



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	G(mm)
1.05H20	22	54	77		20	8	M6
1.05H22					22		
1.05H25					25		
1.05H30					30		
1.05H31.8					31.8		
2.05H20	23.8	61.3	82		20	10	M6
2.05H22					22	8	
2.05H25					25	10	
2.05H30					30	10	
3.05H22	27	70	90		22	10	M6
3.05H25					25		
3.05H30					30		
3.05H35					35		
4.05H22	27	74.6	90		22	10	M6
4.05H25					25		
4.05H30					30		
4.05H31.8					31.8		
4.05H35					35		
5.05H30	30.2	80	98		30	10	M6
5.05H35					35	13	M8
5.05H40					40	13	M10
6.05H30	30.2	92	104		30	10	M6
6.05H35					35	13	M8
6.05H40					40	13	M10
6.05H42					42	13	M10
7.05H35	30.2	106.5	117		35	13	M8
7.05H40					40		M10
7.05H42					42		M10
7.05H45					45		M10
8.05H35					35		106.5
8.05H40	40	M10					
8.05H42	42	M10					
8.05H45	45	M10					

TORQUE LIMITER

Shear Bolt
Torque Limiter



SB

Overrunning Clutch



RA

RAS

Ratchet Torque
Limiter



SA

Wide Angle Joint



WA



SD



SC

Friction Torque
Limiter



FF



FFS



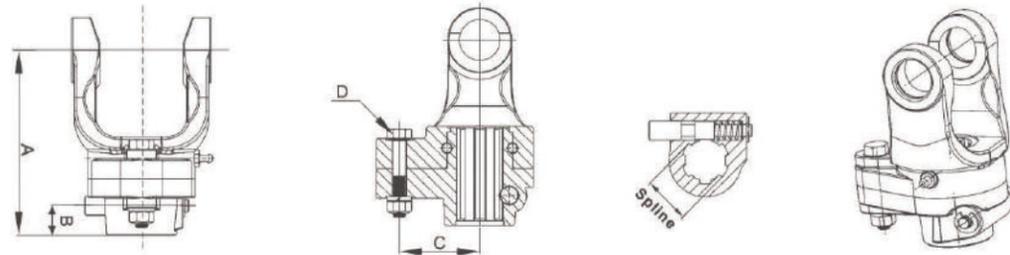
FT

Friction Torque
Limiter

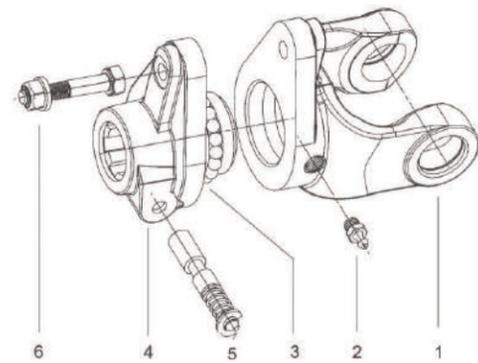


FCS

SHEAR BOLT TORQUE LIMITER

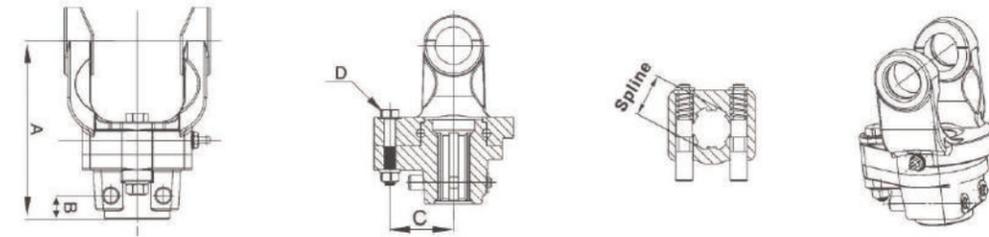


Series	Torque(nm)	Spline	A(mm)	B(mm)	C(mm)	D(mm)
1SB	570	1 3/8"Z6	95	20	35	M6x40
1SBT1	740				45	
2SB	740		98	20	45	M6x40
2SBT1	790				48	
3SB	1110		102	21	38	M8x45
3SBT1	1200				40	
4SB	1400		107	21	48	M8x50
4SBT1	1600				55	
5SB	1600		114	21	55	M8x45
5SBT1	2100				46	
6SB	1750		137	21	60	M8x55
6SBT1	2500				55	
32SB	1600		114	24	55	M8x45
32SBT1	2100				46	
7SB	2050		152	24	45	M10x60
7SBT1	3200				49	

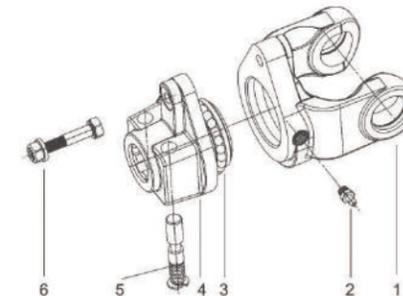


No.	Description	Notes
1	Yoke	
2	Grease nipple	
3	Steel ball	
4	Hub	
5	Push pin	
6	Shear bolt & Nut	

TORQUE LIMITER

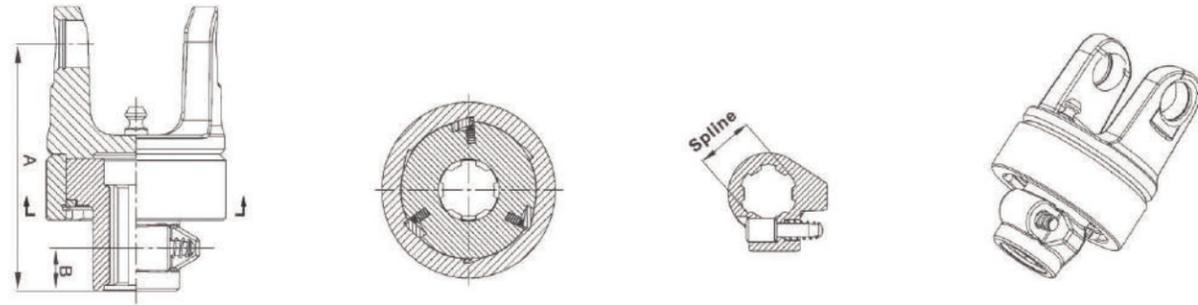


Series	Torque(nm)	Spline	A(mm)	B(mm)	C(mm)	D(mm)
7NSB	2300	13/8"Z6	139	24	50	M10x65
7NSBT1	3000				46	M12x65
8SB	2700	13/8"Z6	152		60	M10x65
8SBT1	3500				57	M12x65
8SB.C	2700	13/4"Z6	152		60	M10x65
8SBT1.C	3500				57	M12x65
38SB	2700	13/8"Z6	152		60	M10x65
9SB	3500	13/8"Z6	152		57	M12x65
9SBT1	4000	13/8"Z6	152		60	M12x65
9SB.C	3500	13/4"Z6	152		57	M12x65
9SBT1.C	4000	13/4"Z6	152		60	M12x65
10SB	3500	13/8"Z6	152		57	M12x65
10SBT1	4500	13/8"Z6	152		49	M14x70
10SB.C	3500	13/4"Z6	152		57	M12x65
10SBT1.C	4500	13/4"Z6	152		49	M14x70
36SB	2400	13/8"Z6	137		53	M10x65
36SBT1	3200	13/8"Z6	137	49	M12x65	
42SB	3500	13/8"Z6	152	57	M12x65	
42SBT1	4000	13/8"Z6	152	60	M12x65	
42SB.C	3500	1 3/4"Z6	152	57	M12x65	
42SBT1.C	4000	13/4"Z6	152	60	M12x65	

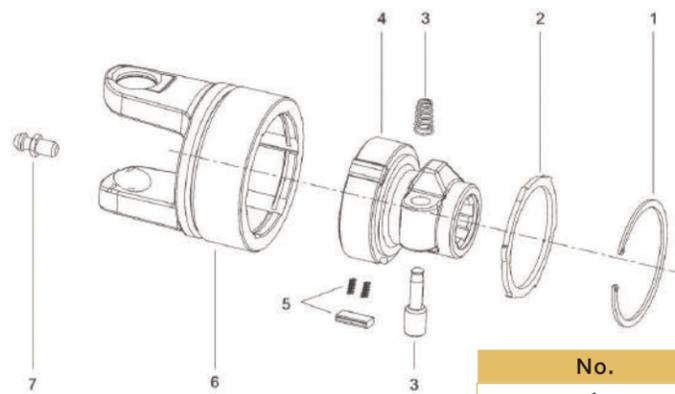


No.	Description	Notes
1	Yoke	
2	Grease nipple	
3	Steel ball	
4	Hub	
5	Push pin	Qty.=2
6	Shear bolt & Nut	

OVERRUNNING CLUTCH

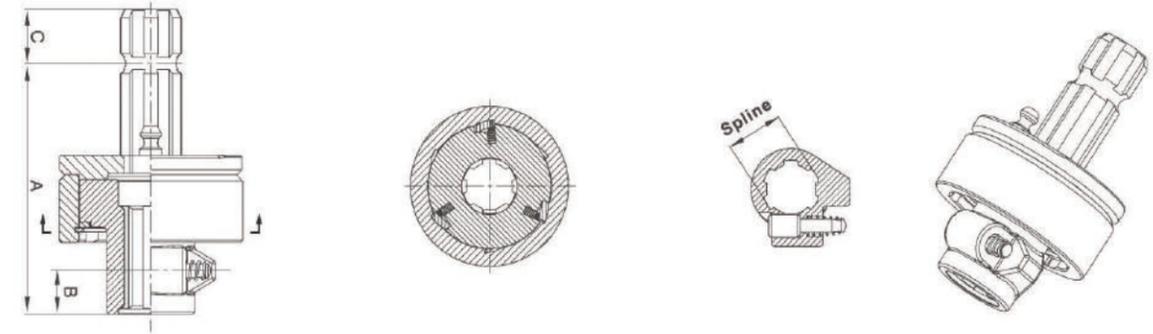


Series	Torque(nm)	Spline	A(mm)	B(mm)
1RA1	2400	13/8"Z6	138	21
2RA1			138	
3RA1			149	
4RA1			150	
5RA1			154	
6RA1			160	
7RA1			171	
7NRA1			157	
8RA1	171			

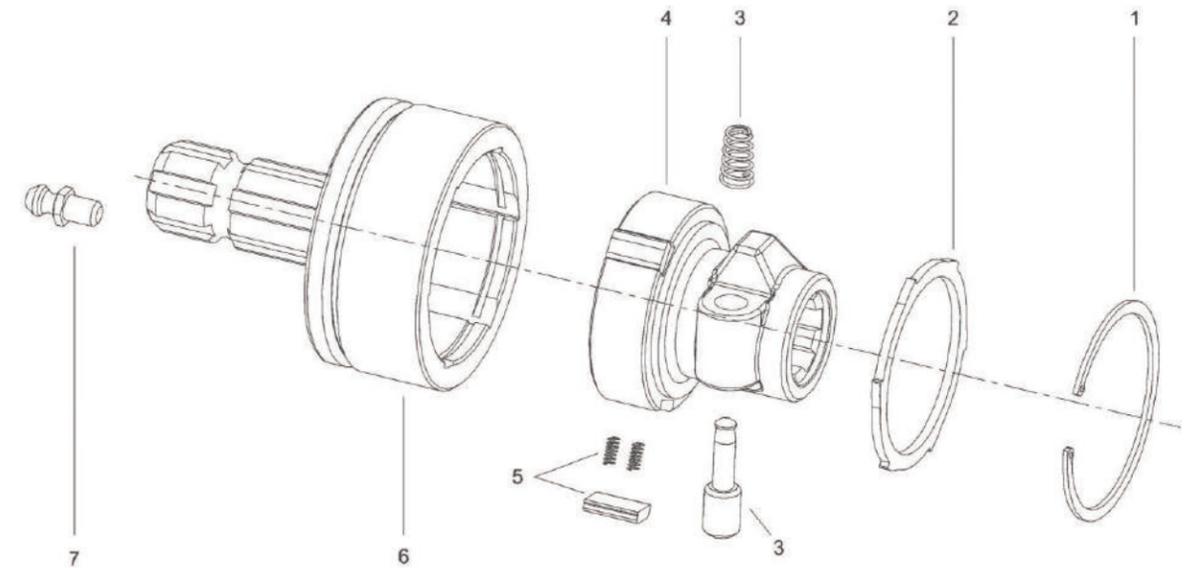


No.	Description	Notes
1	Circlip	
2	Retaining washer	
3	Push pin kit	
4	Hub	
5	Prong kit	Qty.=3
6	Housing with yoke	
7	Grease nipple	

OVERRUNNING CLUTCH

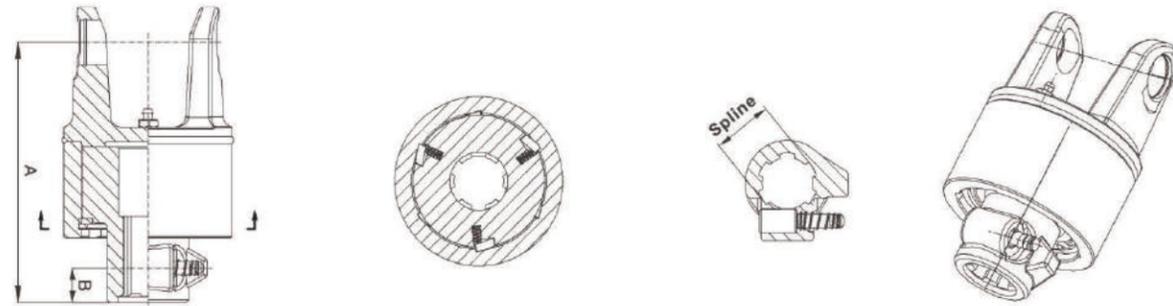


Series	Max Torque(nm)	Spline(female)	Spline(male)	A(mm)	B(mm)	C(mm)
RAS1	2400	13/8"Z6	13/8"Z6	142	21	38

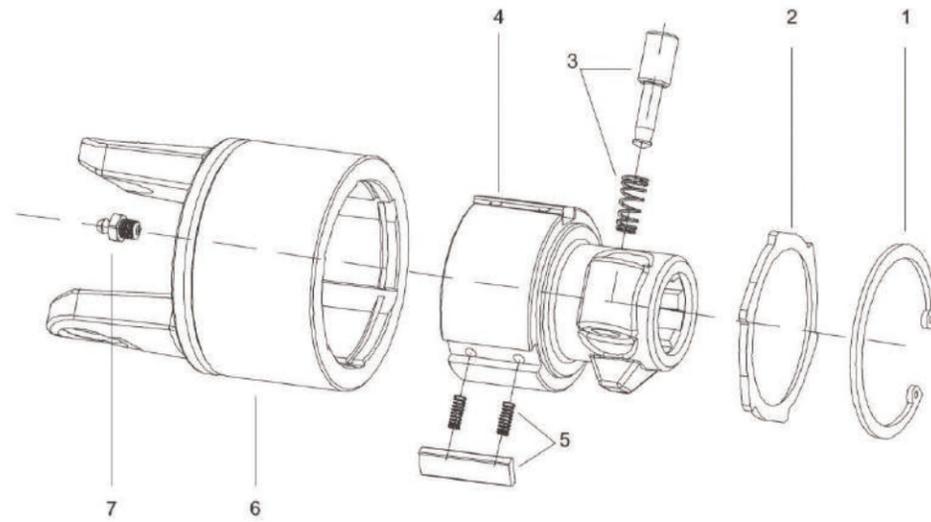


No.	Description	Notes
1	Circlip	
2	Retaining washer	
3	Push pin kit	
4	Hub	
5	Prong kit	Qty.=3
6	Housing with yoke	
7	Grease nipple	

OVERRUNNING CLUTCH

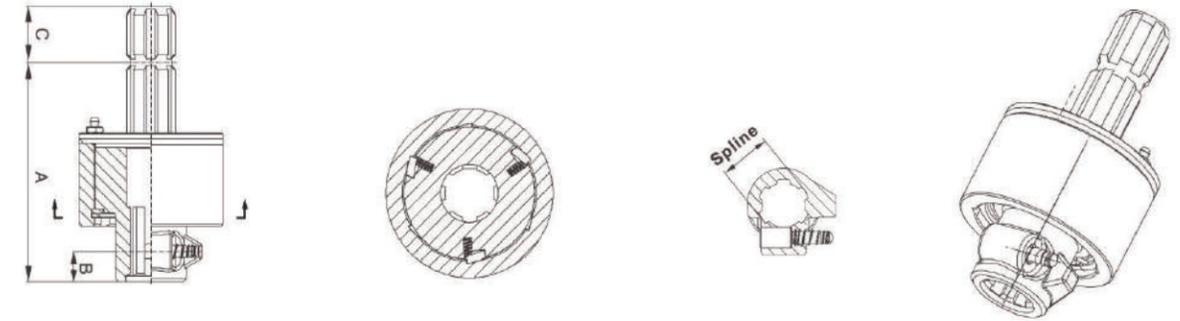


Series	Torque(nm)	Spline	A(mm)	B(mm)
5RA2	3500	13/8"Z6	172	21
6RA2			178	
7NRA2			175	
6RA2			178	
8RA2			189	

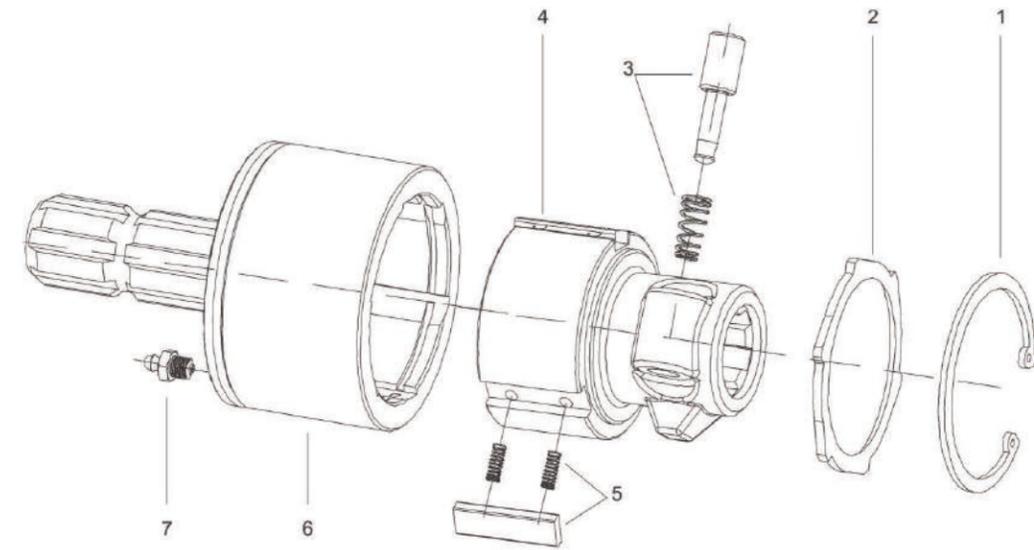


No.	Description	Notes
1	Circlip	
2	Retaining washer	
3	Push pin kit	
4	Hub	
5	Prong kit	Qty.=3
6	Housing with yoke	
7	Grease nipple	

OVERRUNNING CLUTCH

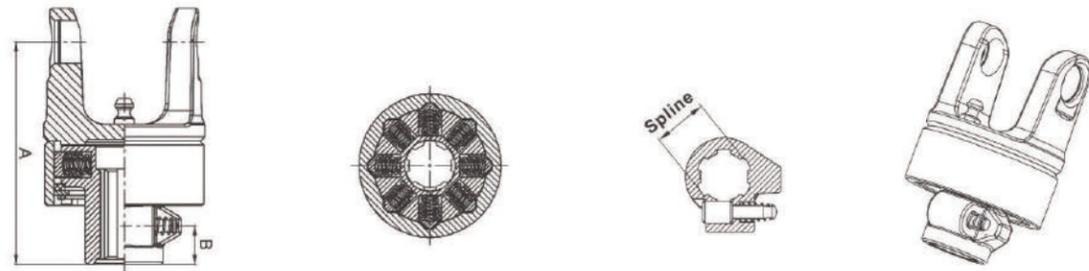


Series	Max Torque(nm)	Spline(female)	Spline(male)	A(mm)	B(mm)	C(mm)
RAS2	3500	13/8"Z6	13/8"Z6	161	21	38

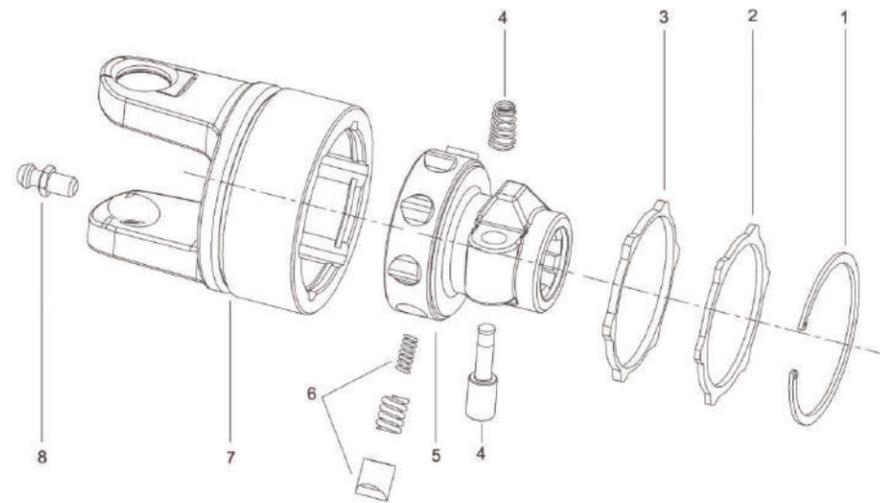


No.	Description	Notes
1	Circlip	
2	Retaining washer	
3	Push pin kit	
4	Hub	
5	Prong kit	Qty.=3
6	Housing with yoke	
7	Grease nipple	

RATCHET TORQUE LIMITER

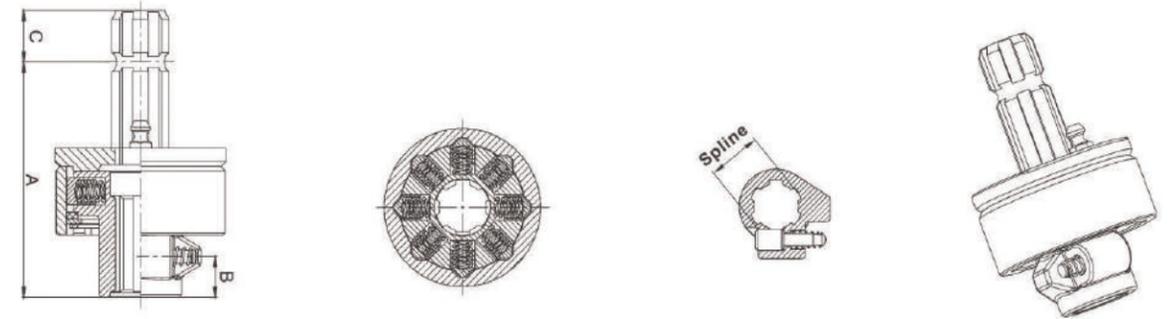


Series	Torque(nm)	Spline	A(mm)	B(mm)
1SA1	400	13/8"Z6	138	21
2SA1			138	
3SA1			149	
4SA1			150	

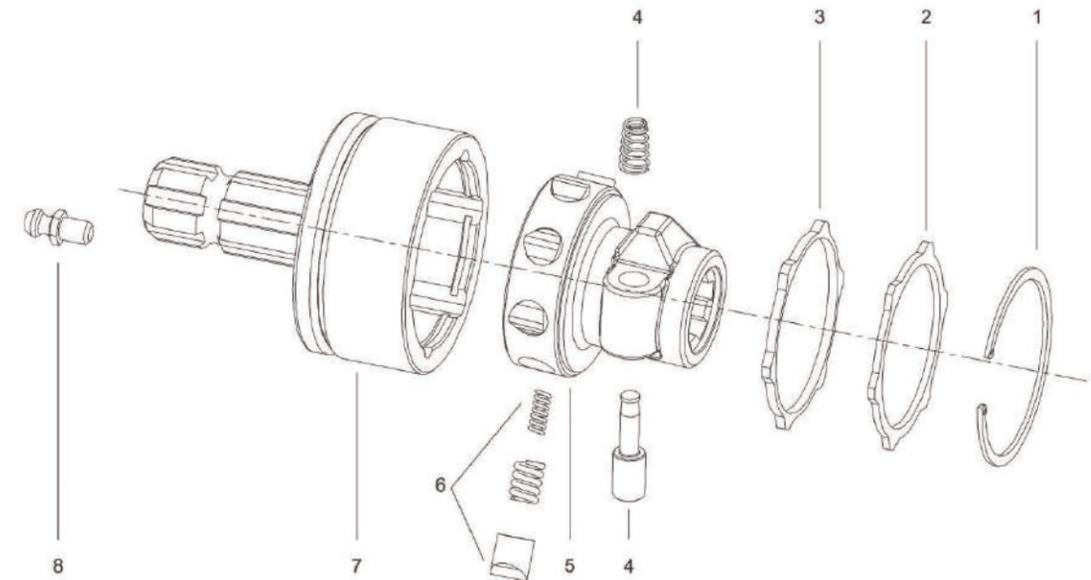


No.	Description	Notes
1	Circlip	
2	Retaining washer	
3	Dust guard ring	
4	Push pin kit	
5	Hub	Qty.=8
6	Pawl kit	
7	Housing with yoke	
8	Grease nipple	

RATCHET TORQUE LIMITER

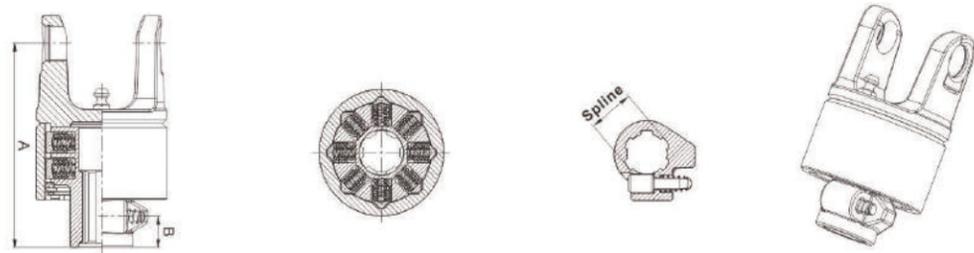


Series	Max Torque(nm)	Spline(female)	Spline(male)	A(mm)	B(mm)	C(mm)
RAS1	400	13/8"Z6	13/8"Z6	144	21	38

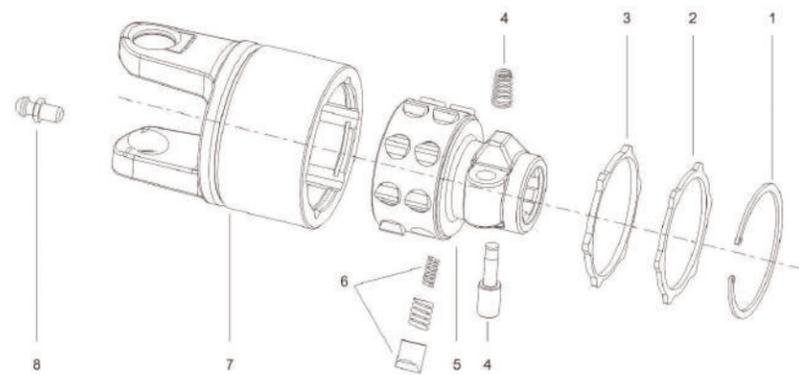


No.	Description	Notes
1	Circlip	
2	Retaining washer	
3	Dust guard ring	
4	Push pin kit	
5	Hub	Qty.=8
6	Pawl kit	
7	Housing with yoke	
8	Grease nipple	

RATCHET TORQUE LIMITER

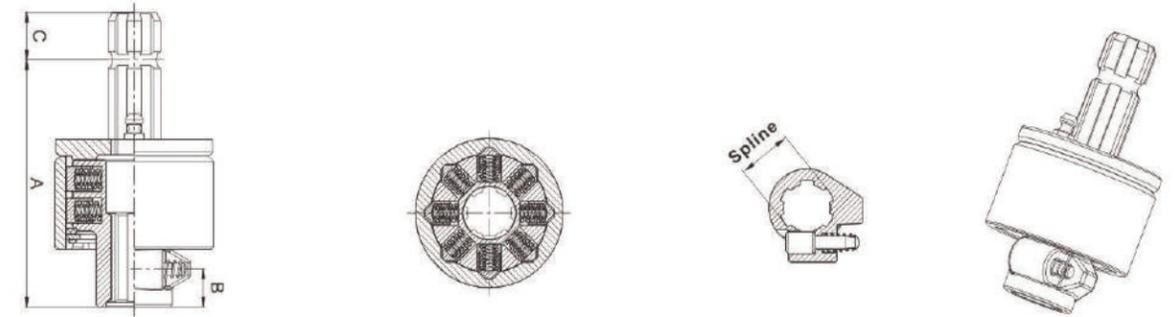


Series	Torque(nm)	Spline	A(mm)	B(mm)
1SA2	800	13/8"Z6	156	21
2SA2			156	
3SA2			167	
4SA2			168	
5SA2			172	
6SA2			178	
7SA2			189	
8SA2			189	

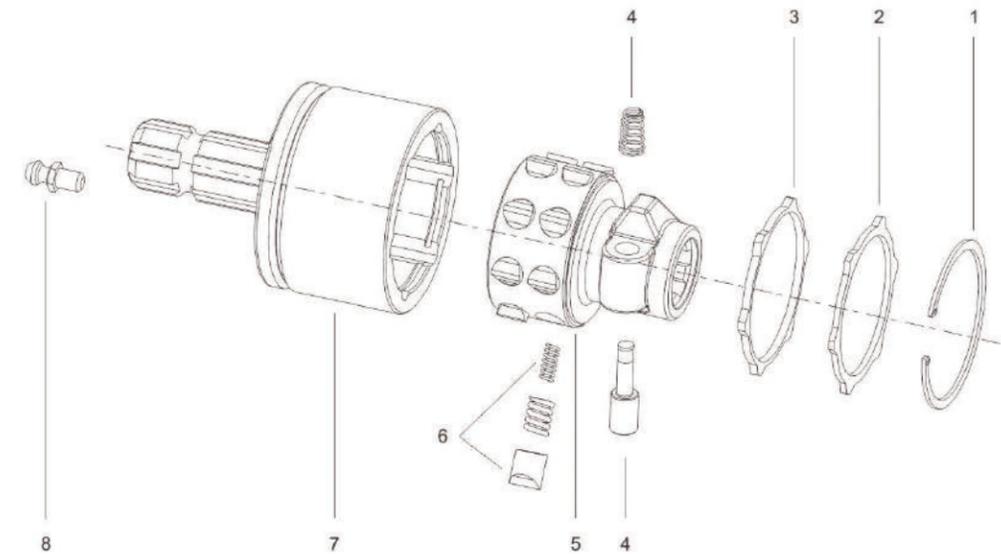


No.	Description	Notes
1	Circlip	
2	Retaining washer	
3	Dust guard ring	
4	Push pin kit	
5	Hub	Qty.=16
6	Pawl kit	
7	Housing with yoke	
8	Grease nipple	

RATCHET TORQUE LIMITER

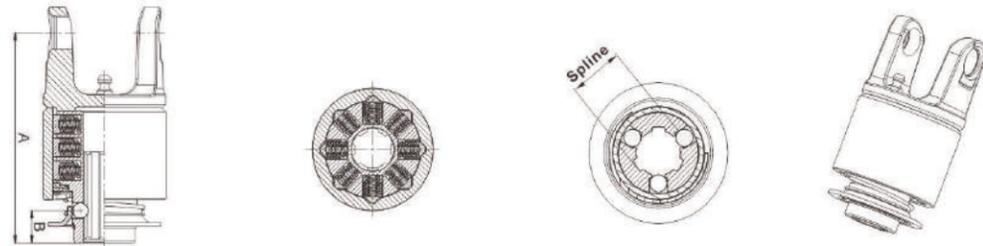


Series	Max Torque(nm)	Spline(female)	Spline(male)	A(mm)	B(mm)	C(mm)
SAS2	800	13/8"Z6	13/8"Z6	161	21	38

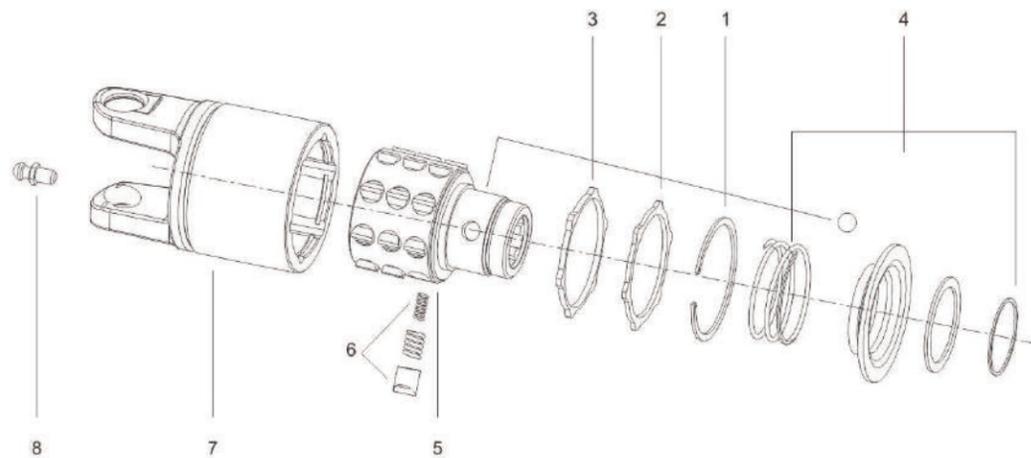


No.	Description	Notes
1	Circlip	
2	Retaining washer	
3	Dust guard ring	
4	Push pin kit	
5	Hub	Qty.=16
6	Pawl kit	
7	Housing with yoke	
8	Grease nipple	

OVERRUNNING CLUTCH

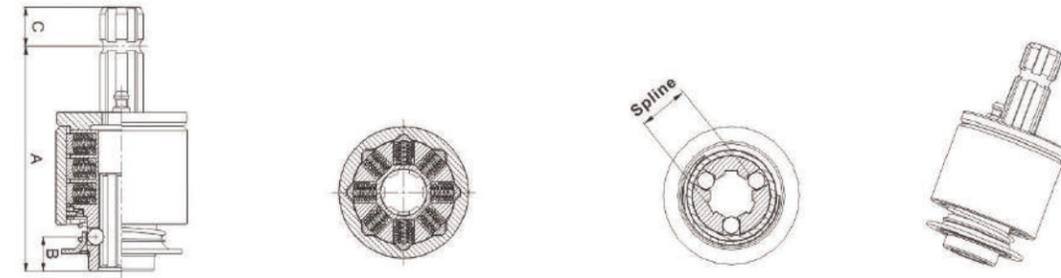


Series	Torque(nm)	Spline	A(mm)	B(mm)
2SA3	1200	13/8"Z6	171	22
3SA3			182	
4SA3			183	
5SA3			187	
6SA3			193	
7SA3			204	
7NSA3			190	
8SA3			204	

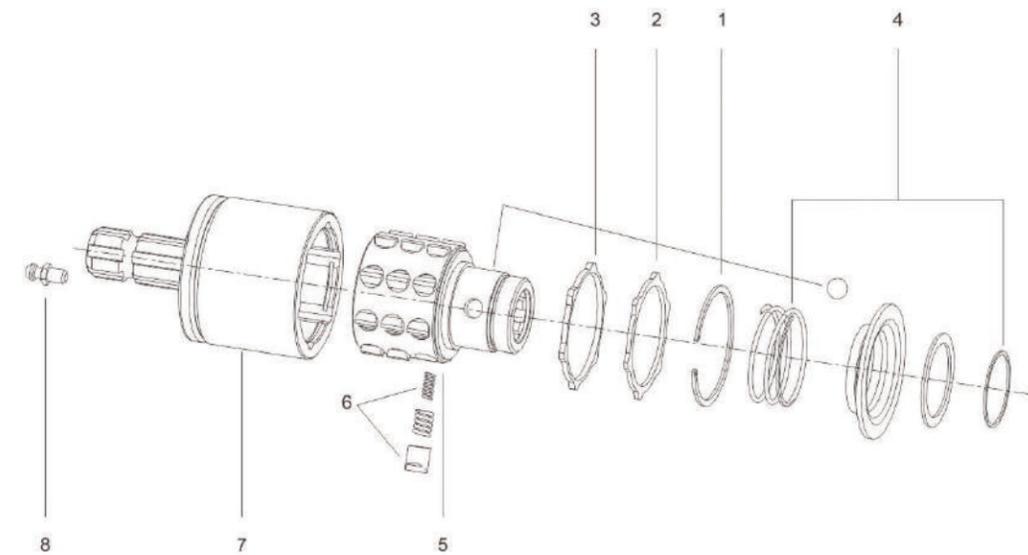


No.	Description	Notes
1	Circlip	
2	Retaining washer	
3	Dust guard ring	
4	Push pin kit	
5	Hub	Qty.=24
6	Pawl kit	
7	Housing with yoke	
8	Grease nipple	

OVERRUNNING CLUTCH

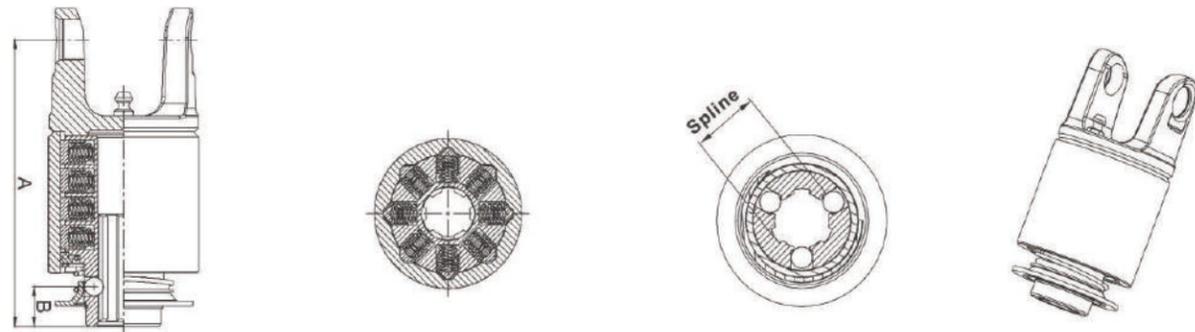


Series	Setting Torque (nm)	Spline(female)	Spline(male)	A(mm)	B(mm)	C(mm)
SAS2	1200	13/8"Z6	13/8"Z6	164.5	22	38

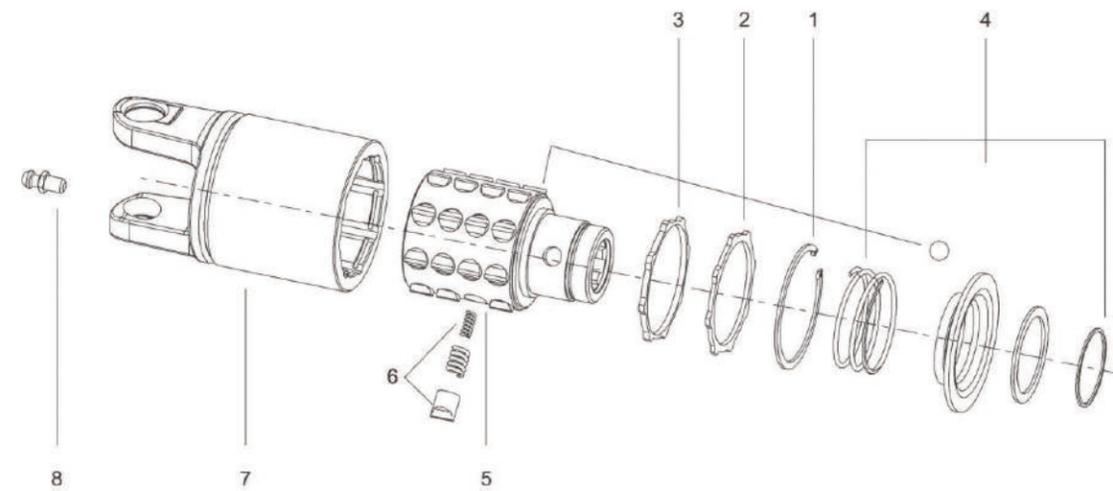


No.	Description	Notes
1	Circlip	
2	Retaining washer	
3	Dust guard ring	
4	Push pin kit	
5	Hub	Qty.=24
6	Pawl kit	
7	Housing with yoke	
8	Grease nipple	

RATCHET TORQUE LIMITER

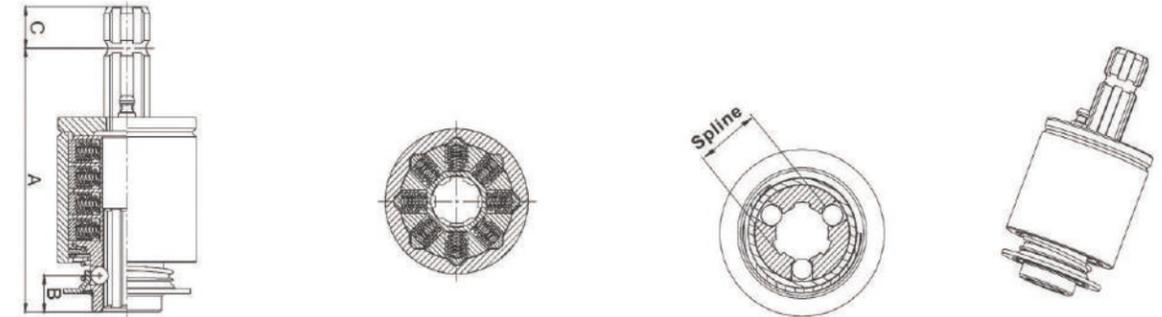


Series	Setting Torque (nm)	Spline	A(mm)	B(mm)
5SA4	1600	13/8"Z6	206	22
6SA4	1600	1 3/8"Z6	212	22

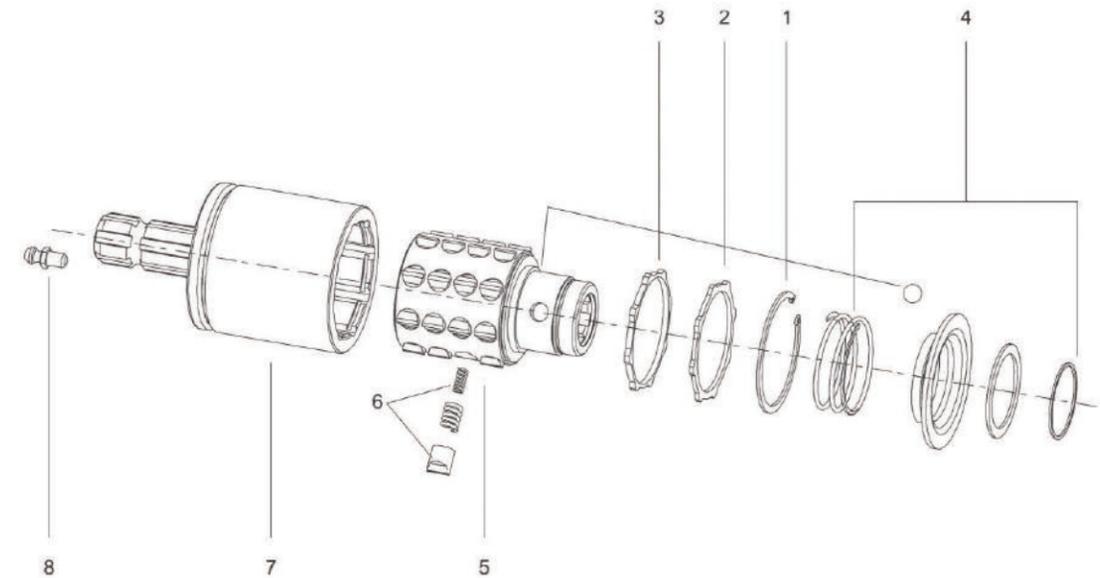


No.	Description	Notes
1	Circlip	
2	Retaining washer	
3	Dust guard ring	
4	Push pin kit	
5	Hub	Qty.=32
6	Pawl kit	
7	Housing with yoke	
8	Grease nipple	

RATCHET TORQUE LIMITER

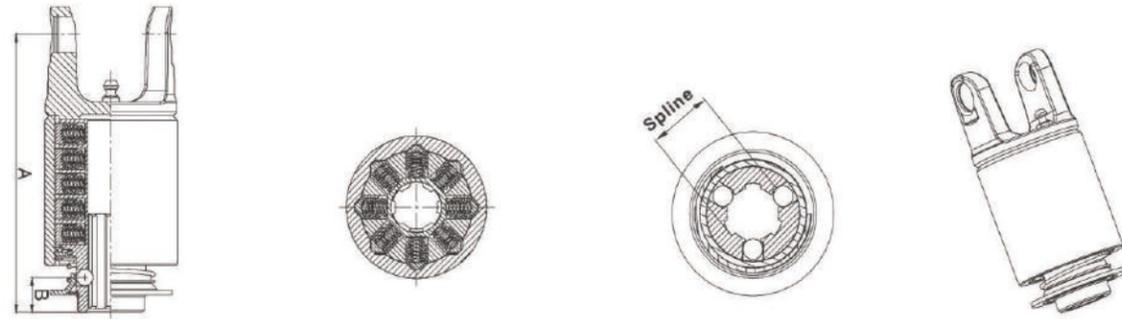


Series	Setting Torque (nm)	Spline(female)	Spline(male)	A(mm)	B(mm)	C(mm)
SAS4	1600	13/8"Z6	13/8"Z6	186	22	38

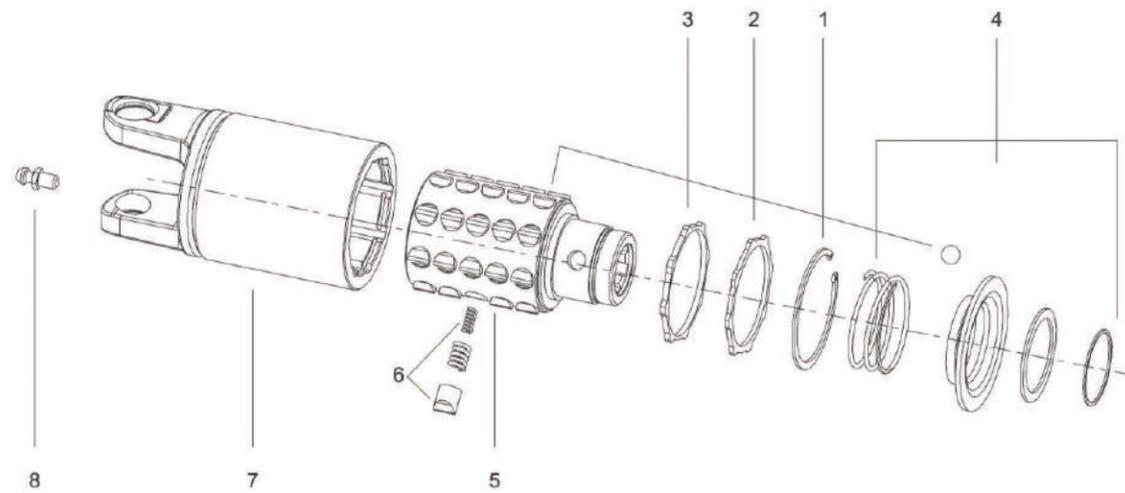


No.	Description	Notes
1	Circlip	
2	Retaining washer	
3	Dust guard ring	
4	Push pin kit	
5	Hub	Qty.=32
6	Pawl kit	
7	Housing with yoke	
8	Grease nipple	

RATCHET TORQUE LIMITER

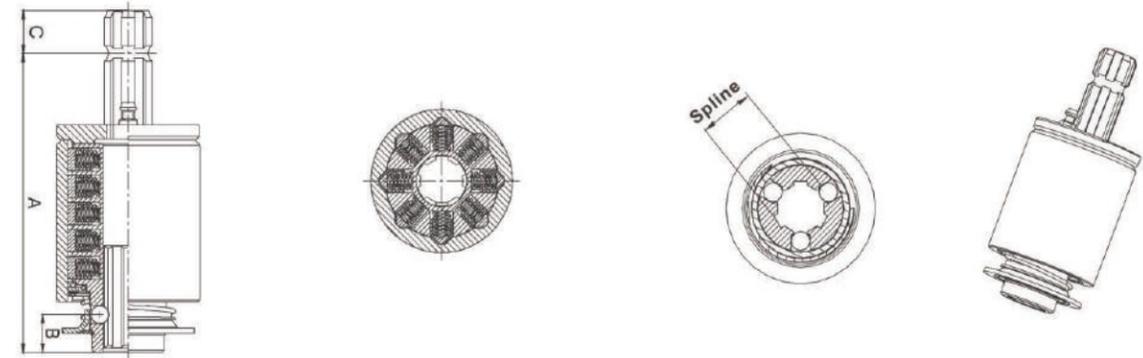


Series	Setting Torque (nm)	Spline	A(mm)	B(mm)
6SA5	2000	13/8"Z6	231	22
6SA4				

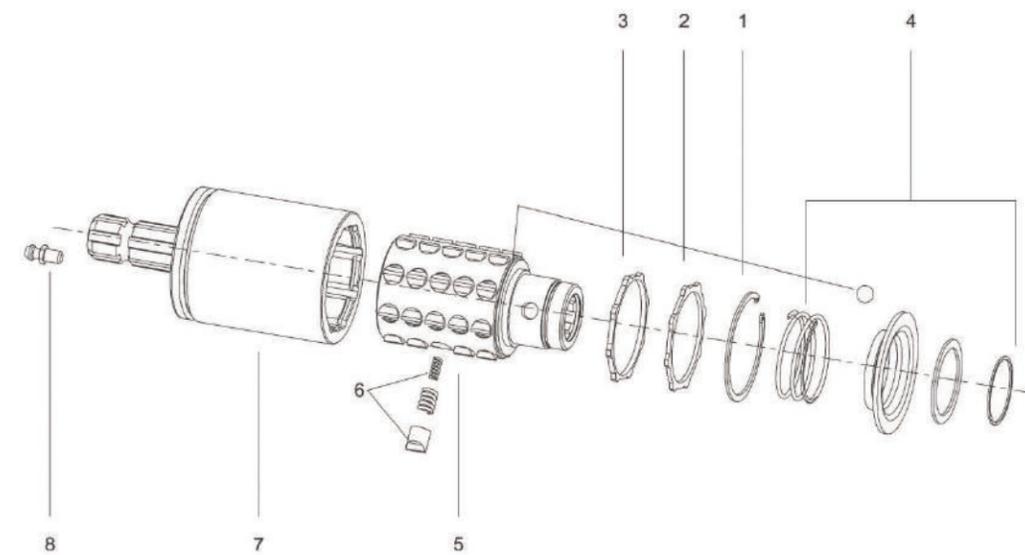


No.	Description	Notes
1	Circlip	
2	Retaining washer	
3	Dust guard ring	
4	Push pin kit	
5	Hub	Qty.=40
6	Pawl kit	
7	Housing with yoke	
8	Grease nipple	

RATCHET TORQUE LIMITER

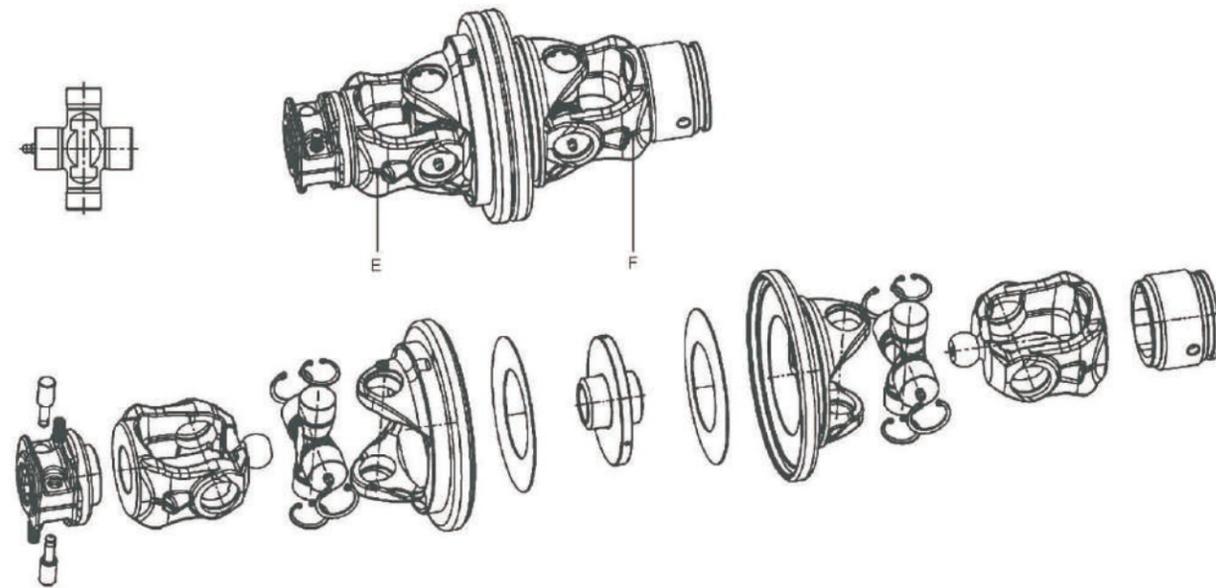
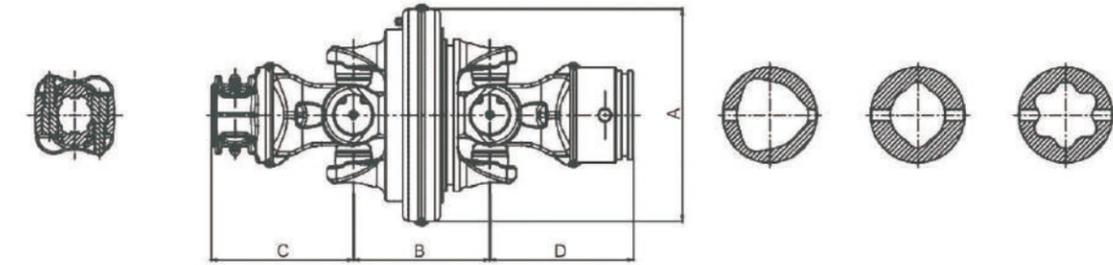


Series	Setting Torque (nm)	Spline(female)	Spline(male)	A(mm)	B(mm)	C(mm)
SAS5	2000	13/8"Z6	13/8"Z6	205	22	38



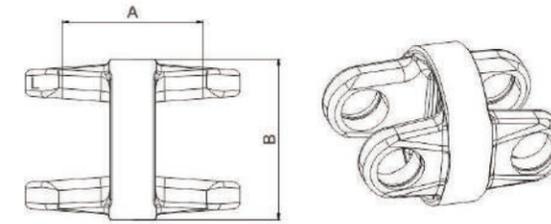
No.	Description	Notes
1	Circlip	
2	Retaining washer	
3	Dust guard ring	
4	Push pin kit	
5	Hub	Qty.=40
6	Pawl kit	
7	Housing with yoke	
8	Grease nipple	

WIDE ANGLE JOINT



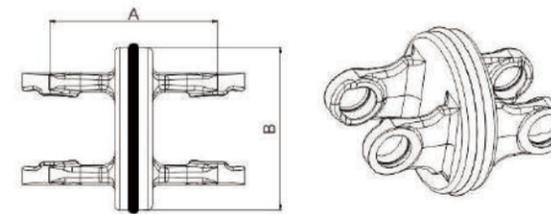
Series	Cross	A(mm)	B(mm)	C(mm)	D(mm)	E	F
2WA.01	23.8x61.3/22x76	153	104	119	105	2WA.0505B/D/G	2WA.06/06L
4WA.01	27x74.6/23.8x91	153	104	124	110	4WA.0505B/D/G	4WA.06/06L
6WA.01	30.2x92/27x100	176	105	136	127	6WA.0505B/D/G	6WA.06/06L/06ST
8WA.01	35x106.5/30.2x106	184	120	146	147	8WA.0505B/C/D/E	8WA.06/06L/06ST
32WA.01	32x76/27x94	176	105	126	117	32WA.0505B/D/G	32WA.06/.06L/06ST
36WA.01	36x89/32x106	184	120	125	126	36WA.0505B/C/D/E	36WA.06/06L/06ST
42WA.01	42x104.5/36x124	184	124	149	150	42WA.0505B/C/D/E	42WA.06/06ST/06G

SD-DOUBLE JOINT (WHOLE)



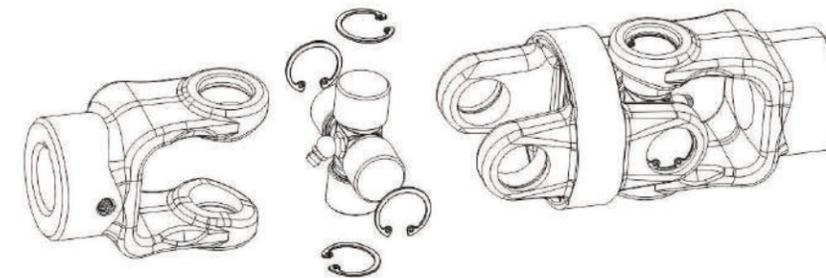
Series	Type	A(mm)	B (mm)
1	1.05.DY	66	72
2	2.05.DY	69	78
3	3.05.DY	79	80
4	1310.05.DY	68.5	99
5	100.05.DY	70	109
6	25HP.05.DY	69	78
7	50HP.05.DY	70	109

SD-DOUBLE JOINT (WELDED)

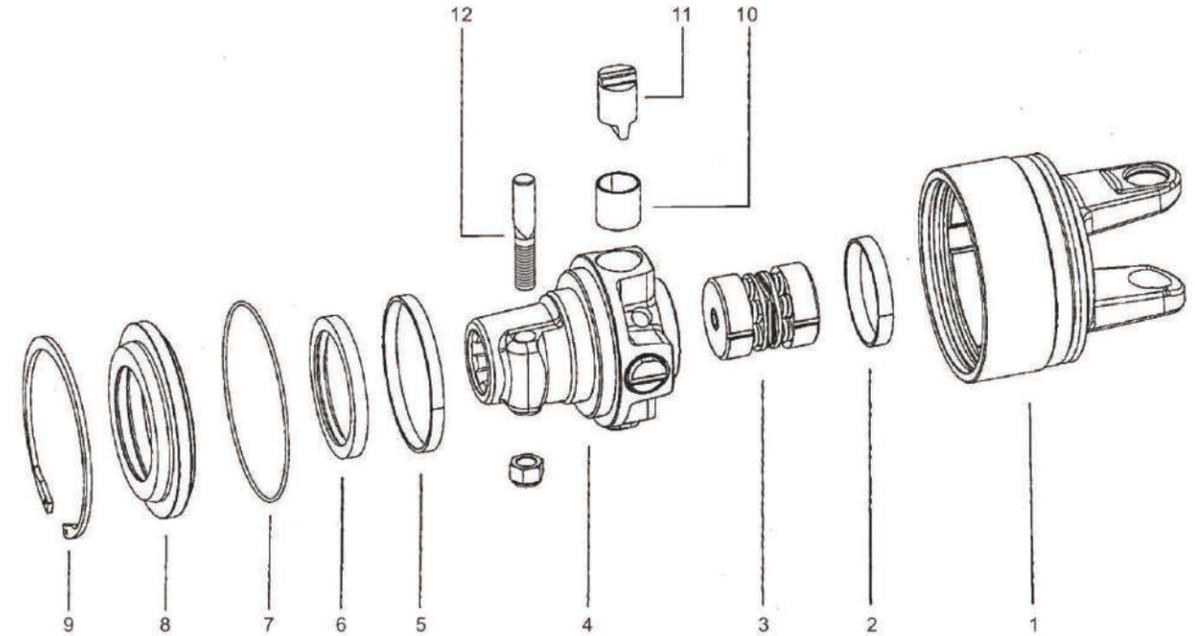
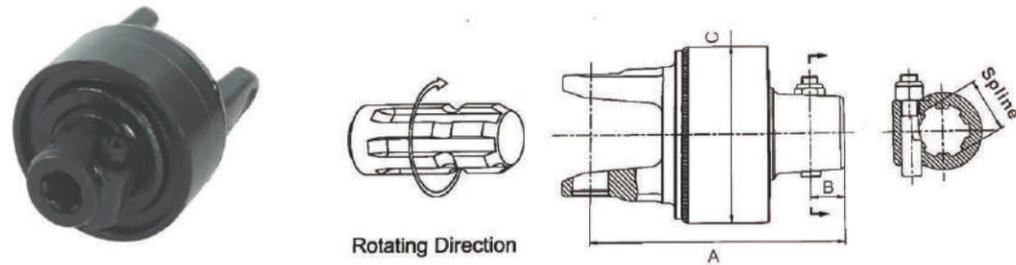


Series	Type	A(mm)	B (mm)
1	1.05.SDY	102	102
2	2.05.SDY	102	102
3	3.05.SDY	124	102
4	4.05.SDY	126	102
5	5.05.SDY	134	102
6	6.05.SDY	146	102
7	7.05.SDY	168	102
7N	7N.05.SDY	140	102
8	8.05.SDY	168	102
32	32.05.SDY	134	102
36	36.05.SDY	154	102
42	42.05.SDY	190	104

SD-DOUBLE JOINT (WHOLE)



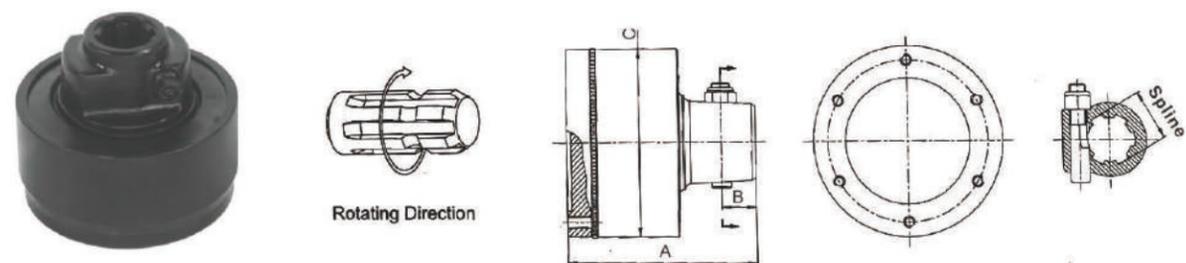
AUTOMATIC TORQUE LIMITER



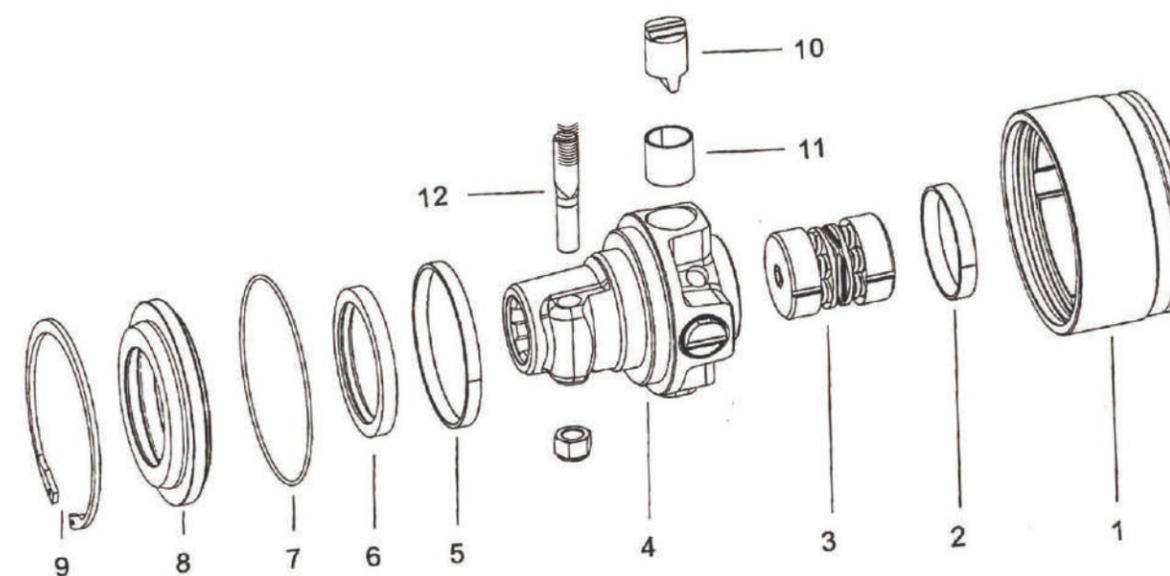
Series	Torque(nm)	Spline	A(mm)	B(mm)	C(mm)	
4SC151	1600	1 3/8"Z6	207.5	28	φ152	
4SC151.D		13/8"Z21				
5SC151	2100	13/8"Z6	213			
6SC151.D		13/8"Z21				
6SC151	2600	13/8"Z6				
6SC151.D		13/8"Z21				
6SC151.C	2100	13/4"Z6				
6SC151.E		13/4"Z20				
7NSC151	2800	13/8"Z6	213			
7NSC151.D		13/8"Z21				
7NSC151.C	2600	1 3/4"Z6				
7NSC151.E		13/4"Z20				
8SC151	2800	13/8"Z6		220		
8SC151.D		1 3/8"Z21				
8SC151.C	2600	13/4"Z6				
8SC151.E		13/4"Z20				
36SC151	2800	13/8"Z6	213			
36SC151.D		13/8"Z21				
36SC151.C	2600	13/4"Z6				
36SC151.E		13/4"Z20				
8SC176	3000	1 3/8"Z6		224	28	φ152
8SC176.D		13/8"Z21				
8SC176.C	3500	13/8"Z6				
8SC176.E		13/8"Z21				
9SC176	4000	13/8"Z6	233			
9SC176.D		13/8"Z21				
9SC176.C	4500	13/4"Z6				
9SC176.E		13/4"Z20				
8SC176	3500	13/8"Z6		233		
8SC176.D		13/8"Z21				
8SC176.C	4500	13/4"Z6				
8SC176.E		13/4"Z20				
8SC176	3500	13/8"Z6	233			
8SC176.D		13/8"Z21				
8SC176.C	4500	13/4"Z6				
8SC176.E		13/4"Z20				
8SC176	3500	13/8"Z6		233		
8SC176.D		13/8"Z21				
8SC176.C	4500	13/4"Z6				
8SC176.E		13/4"Z20				

No.	Description	Notes
1	Outer housing + yoke	
2	Bushing	
3	Spring pack	
4	Hub with taper pin and bushings	
5	Bushing	
6	Sealing ring	
7	O-ring	
8	Locking plate	
9	Snap ring	
10	Bushing	Qty.=4
11	Cam	Qty.=4
12	Taper pin	With nuts

AUTOMATIC TORQUE LIMITER

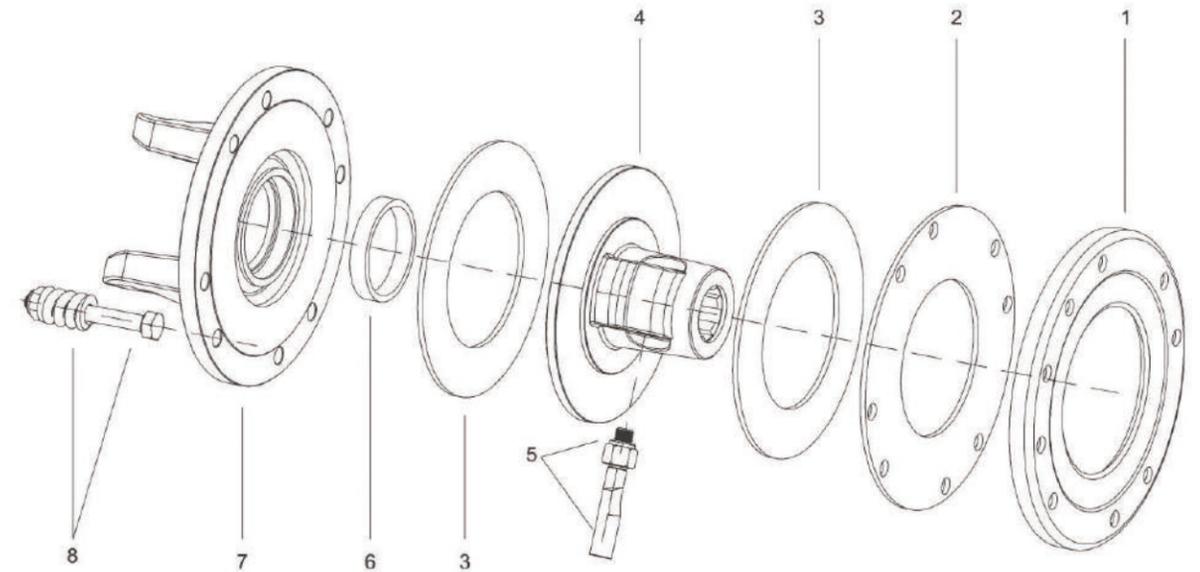
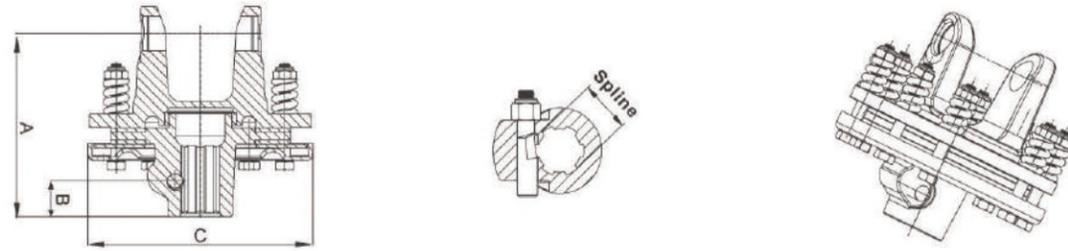


Series	Torque(nm)	Spline	A(mm)	B(mm)	C(mm)
SCF151	1600	13/8"Z6	171	29	φ168
SCF151.D	2100	13/8"Z21			
SCF151.C	2600	13/4"Z6			
SCF151.E	2800	13/4"Z20			
SCF176	3000	13/8"Z6	175	28	φ176
SCF176.D	3500	13/8"Z21			
SCF176.C	4000	13/4"Z6			
SCF176.E	4500	13/4"Z20			



No.	Description	Notes
1	Outer housing+flange	
2	Bushing	
3	Spring pack	
4	Hub with taper pin and bushings	
5	Bushing	
6	Sealing ring	
7	O-ring	
8	Locking plate	
9	Snap ring	
10	Bushing	Qty.=4
11	Cam	Qty.=4
12	Taper pin	With nuts

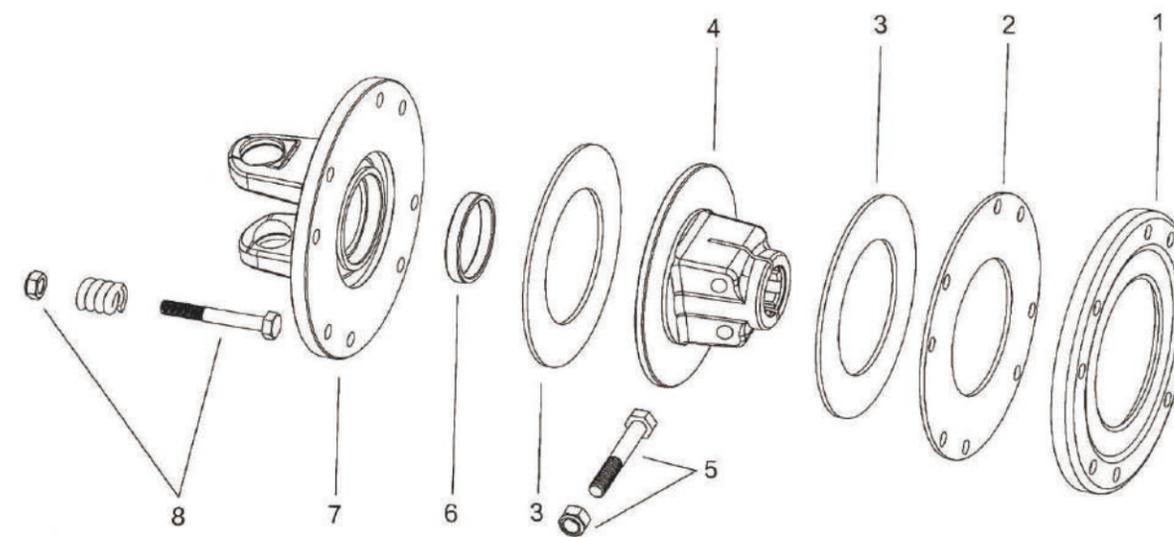
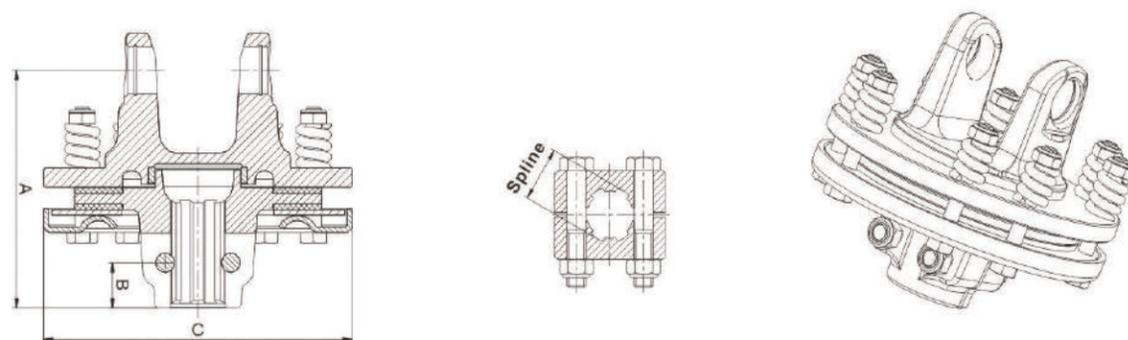
AUTOMATIC TORQUE LIMITER



Series	Max Torque(nm)	Friction Disc	Spline	A(mm)	B(mm)	C(mm)
4FF0	800	φ120	13/8"Z6	135	29	φ160
5FF0	1000			137		
4FF1	1200	φ140	13/8"Z6	150	29	φ180
4FF1D			13/8"Z21			
5FF1			13/8"Z6			
5FF1D			13/8"Z21			
6FF1	1500	φ160	13/8"Z6	160	29	φ200
6FF1D			13/8"Z21			
4FF2	1500	φ160	13/8"Z6	150	29	φ200
4FF2D			13/8"Z21			
5FF2	1500	φ160	13/8"Z6	152	29	φ200
5FF2D			13/8"Z21			
5FF2C			13/4"Z6			
5FF2E	1500	φ160	13/4"Z20	164	29	φ200
6FF2			13/8"Z6			
6FF2D			1 3/8"Z21			
6FF2C	1800	φ160	13/4"Z6	169	29	φ200
6FF2E			13/4"Z20			
7FF2	1800	φ160	13/8"Z6	164	29	φ200
7FF2D			13/8"Z21			
7FF2C			13/4"Z6			
7FF2E			13/4"Z20			
7NFF2	1800	φ160	13/8"Z6	164	29	φ200
7NFF2D			13/8"Z21			
7NFF2C			13/4"Z6			
7NFF2E			13/4"Z20			
8FF2	1800	φ160	13/8"Z6	169	29	φ200
8FF2D			13/8"Z21			
8FF2C			13/4"Z6			
8FF2E			13/4"Z20			

No.	Description	Notes
1	Pressure plate	
2	Internal disc	
3	Friction lining	Qty.=2
4	Hub	
5	Taper pin for hub	With nuts
6	Bushing	
7	Flanged yoke	
8	Complete bolt&Spring	Qty.=8

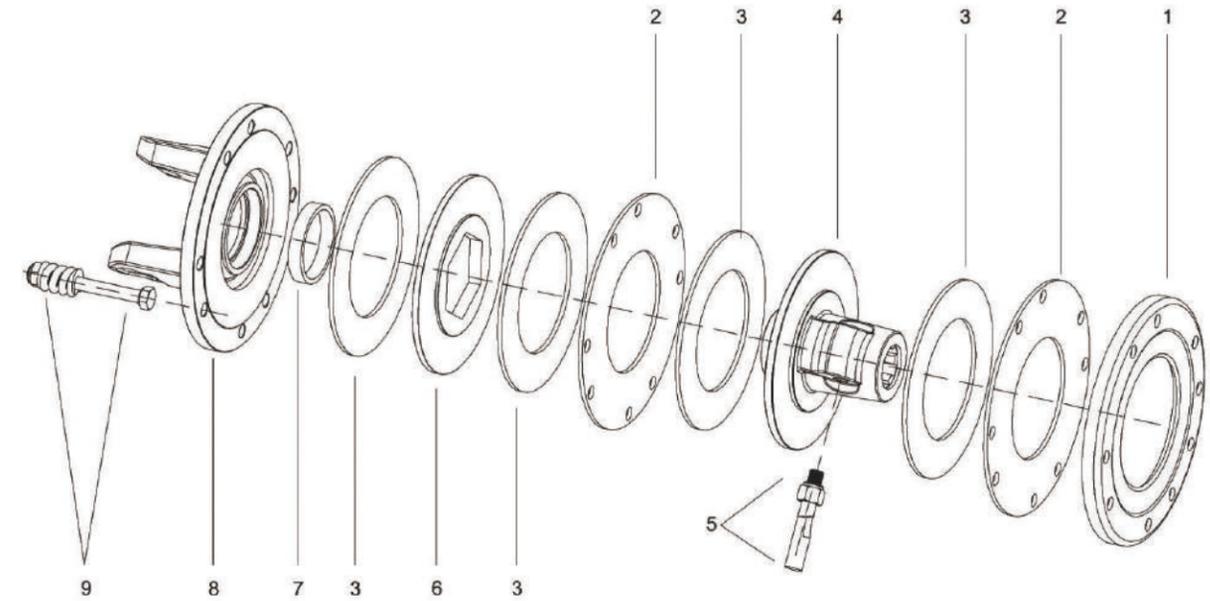
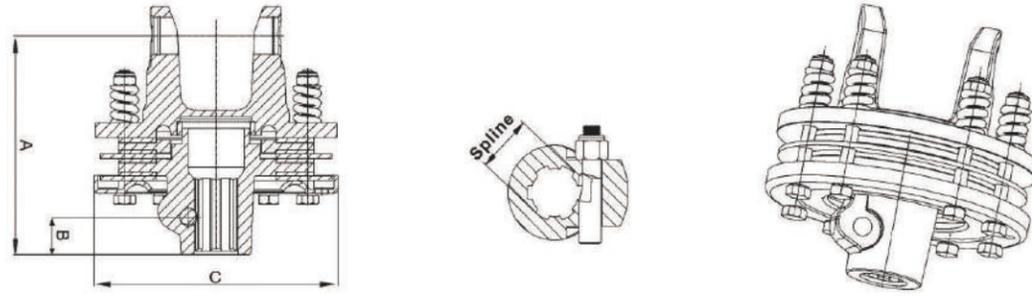
FRICITION TORQUE LIMITER



Series	Max Torque(nm)	Friction Disc	Spline	A(mm)	B(mm)	C(mm)
4FFV1	1200	φ120	13/8"Z6	150	30.5	φ180
4FFV1D	900		13/8"Z21			
5FFV1	1200	φ140	13/8"Z6	152	30.5	φ180
5FFV1D	900		13/8"Z21			
6FFV1	1200	φ140	1 3/8"Z6	160	30.5	φ180
6FFV1D	1200		13/8"Z21			
4FFV2	1200	φ160	13/8"Z6	143	26	φ200
4FFV2D	1200		13/8"Z21			
5FFV2	1500	φ160	13/8"Z6	145	26	φ200
5FFV2D			13/8"Z21			
5FFV2C			1 3/4"Z6	151		
5FFV2E			13/4"Z20			
6FFV2	1500	φ160	13/8"Z6	157	26	φ200
6FFV2D			13/8"Z21			
6FFV2C			13/4"Z6	163		
6FFV2E			13/4"Z20			
7FFV2	1800	φ160	1 3/8"Z6	162	26	φ200
7FFV2D			13/8"Z21			
7FFV2C			13/4"Z6	168		
7FFV2E			13/4"Z20			
7NFFV2			13/8"Z6	157		
7NFFV2D	13/8"Z21	26	φ200			
7NFFV2C	13/4"Z6					
7NFFV2E	13/4"Z20					
8FFV2	1800	φ160	13/8"Z6	162	26	φ200
8FFV2D			13/8"Z21			
8FFV2C			13/4"Z6	168		
8FFV2E			13/4"Z20			

No.	Description	Notes
1	Pressure plate	
2	Internal disc	
3	Friction lining	Qty.=2
4	Hub	
5	Taper pin for hub	Qty.=2
6	Bushing	
7	Flanged yoke	
8	Complete bolt&Spring	Qty.=8

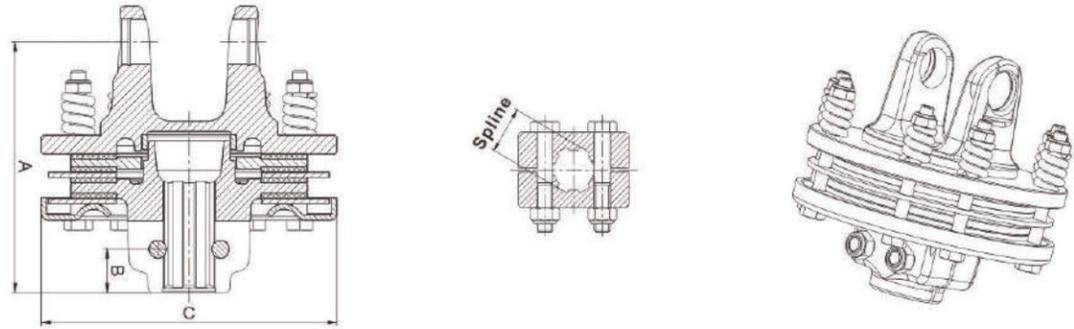
FRICTION TORQUE LIMITER



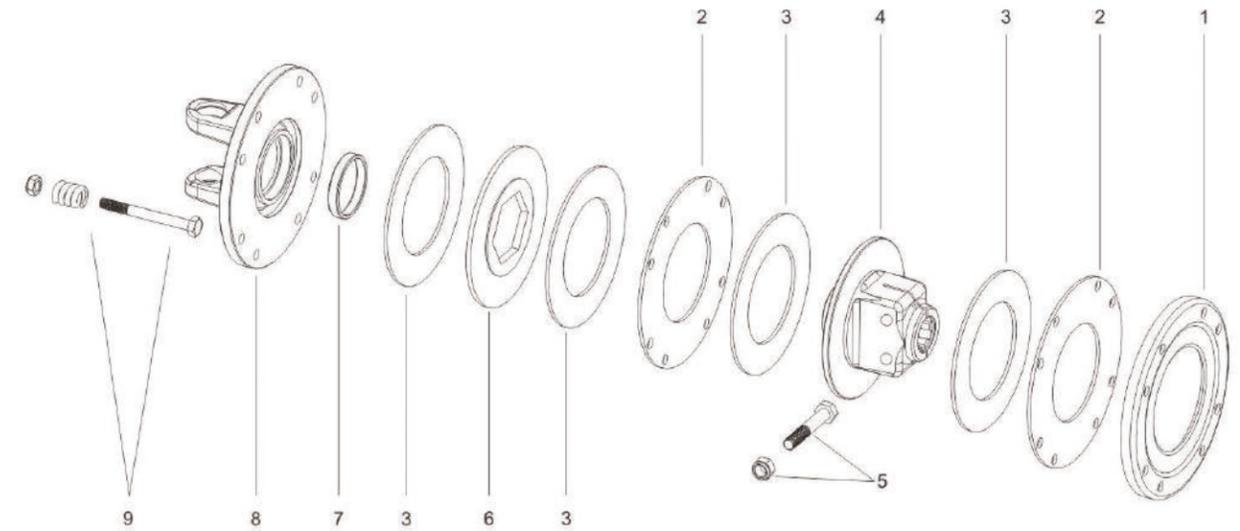
Series	Max Torque(nm)	Friction Disc	Spline	A(mm)	B(mm)	C(mm)
5FF3	2000	φ120	13/8"Z6	168	29	φ180
5FF3.D			13/8"Z21			
6FF3	2000	φ140	13/8"Z6	176	29	φ180
6FF3.D			13/8"Z21			
5FF4	2000	φ160	13/8"Z6	168	29	φ200
5FF4D			13/8"Z21			
5FF4C	2000	φ160	13/4"Z6	168	29	φ200
5FF4E			13/4"Z20			
6FF4	2000	φ160	13/8"Z6	180	29	φ200
6FF4D			13/8"Z21			
6FF4C			13/4"Z6			
6FF4E			1 3/4"Z20			
7FF4	2200	φ160	13/8"Z6	185	29	φ200
7FF4D			13/8"Z21			
7FF4C			13/4"Z6			
7FF4E			13/4"Z20			
7NFF4			13/8"Z6			
7NFF4D	13/8"Z21	180	29	φ200		
7NFF4C	13/4"Z6					
7NFF4E	13/4"Z20					
8FF4	2500	φ160	13/8"Z6	185	29	φ200
8FF4D			13/8"Z21			
8FF4C			13/4"Z6			
8FF4E			13/4"Z20			
9FF4	2800	φ160	13/8"Z6	190	29	φ200
9FF4D			13/8"Z21			
9FF4C			13/4"Z6			
9FF4E			1 3/4"Z20			
10FF4	3000	φ160	13/8"Z6	190	29	φ200
10FF4D			13/8"Z21			
10FF4C			13/4"Z6			
10FF4E			13/4"Z20			
42FF4	2800	φ160	13/8"Z6	190	29	φ200
42FF4D			13/8"Z21			
42FF4C			13/4"Z6			
42FF4E			13/4"Z20			

No.	Description	Notes
1	Pressure plate	
2	Internal disc	Qty.=2
3	Friction lining	Qty.=4
4	Hub	
5	Taper pin for hub	With nuts
6	Bushing	
7	Flanged yoke	
8	Complete bolt&Spring	Qty.=8

FRICITION TORQUE LIMITER



Series	Max Torque(nm)	Friction Disc	Spline	A(mm)	B(mm)	C(mm)
5FFV3	2000	φ120	13/8"Z6	160	30.5	φ180
5FFV3.D			1 3/8"Z21			
6FFV3	2000	φ140	13/8"Z6	168	30.5	φ180
6FFV3.D			1 3/8"Z21			
5FFV4	2000	φ160	13/8"Z6	160	30.5	φ200
5FFV4D			13/8"Z21			
5FFV4C	2000	φ160	13/4"Z6	167	30.5	φ200
5FFV4E			13/4"Z20			
6FFV4	2000	φ160	13/8"Z6	172	30.5	φ200
6FFV4D			13/8"Z21			
6FFV4C			1 3/4"Z6			
6FFV4E			13/4"Z20			
7FFV4	2200	φ160	13/8"Z6	177	30.5	φ200
7FFV4D			1 3/8"Z21			
7FFV4C			13/4"Z6			
7FFV4E			13/4"Z20			
7NFFV4			13/8"Z6			
7NFFV4D	1 3/8"Z21	172	30.5	φ200		
7NFFV4C	13/4"Z6					
7NFFV4E	13/4"Z20	179				
8FFV4	2500	φ160	13/8"Z6	177	30.5	φ200
8FFV4D			1 3/8"Z21			
8FFV4C			1 3/4"Z6			
8FFV4E			13/4"Z20			
9FFV4	2800	φ160	13/8"Z6	182	30.5	φ200
9FFV4D			1 3/8"Z21			
9FFV4C			13/4"Z6			
9FFV4E			13/4"Z20			
10FFV4	3000	φ160	13/8"Z6	182	30.5	φ200
10FFV4D			13/8"Z21			
10FFV4C			13/4"Z6			
10FFV4E			13/4"Z20			
42FFV4	2800	φ160	1 3/8"Z6	182	30.5	φ200
42FFV4D			13/8"Z21			
42FFV4C			13/4"Z6			
42FFV4E			13/4"Z20			

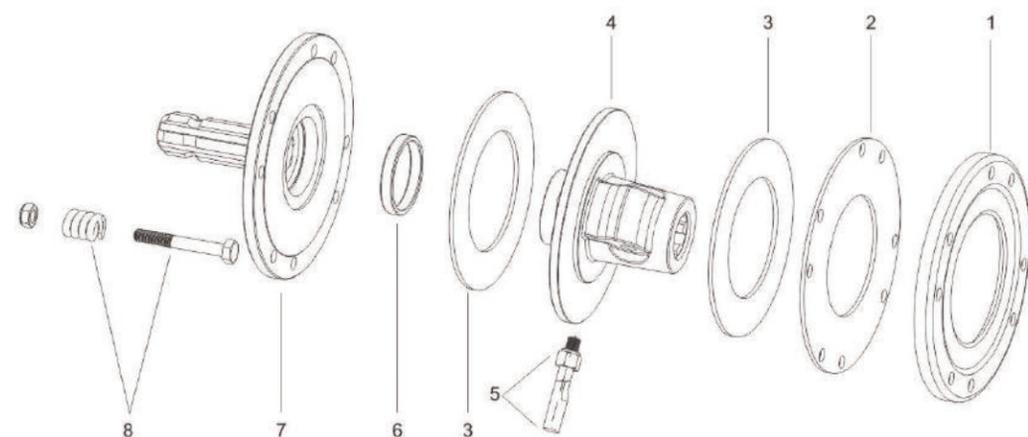


No.	Description	Notes
1	Pressure plate	
2	Internal disc	Qty.=2
3	Friction lining	Qty.=4
4	Hub	
5	Complete bolt	Qty.=2
6	Intermediate hub	
7	Bushing	
8	Flanged yoke	
9	Complete bolt&Spring	Qty.=8

FRICITION TORQUE LIMITER

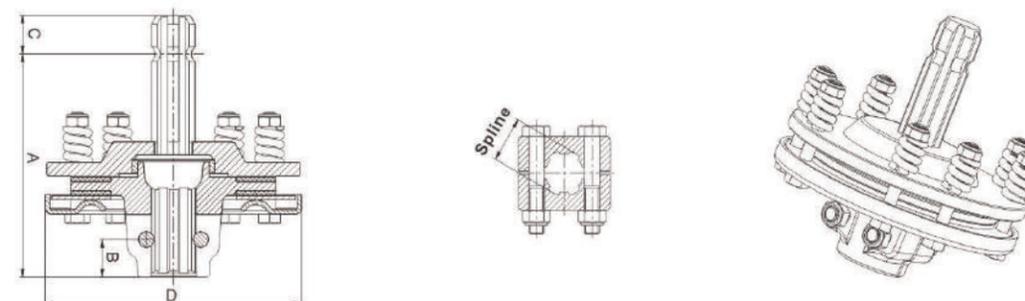


Series	Max Torque(nm)	Friction Disc	Spline(female)	Spline(male)	A(mm)	B(mm)	C(mm)	D(mm)
FFS1	1200	φ140	13/8"Z6	13/8"Z6	161.5	29	38	φ180
FFS1D			1 3/8"Z21					
FFS2	1800	φ160	13/8"Z6	13/8"Z6	161.5	29	38	φ200
FFS2D			13/8"Z21					
FFS2C			13/8"Z6					
FFS2E			13/8"Z20					

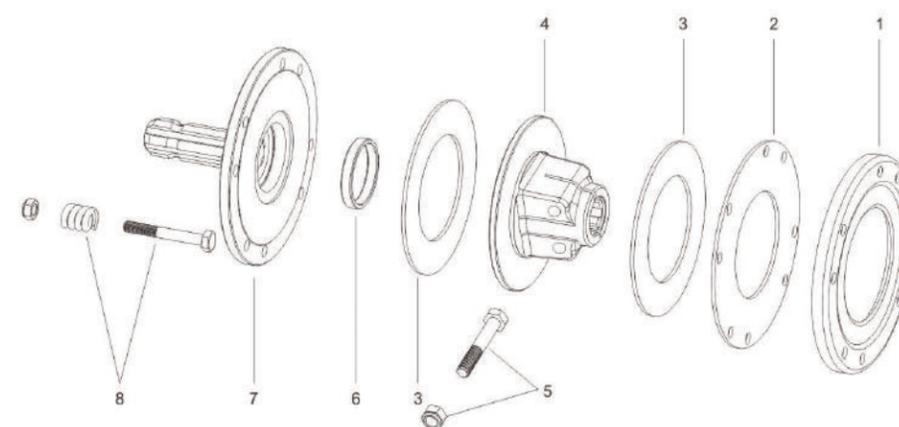


No.	Description	Notes
1	Pressure plate	
2	Internal disc	
3	Friction lining	Qty.=2
4	Hub	
5	Taper pin for hub	With nuts
6	Bushing	
7	Flanged yoke	
8	Complete bolt&Spring	Qty.=8

FRICITION TORQUE LIMITER

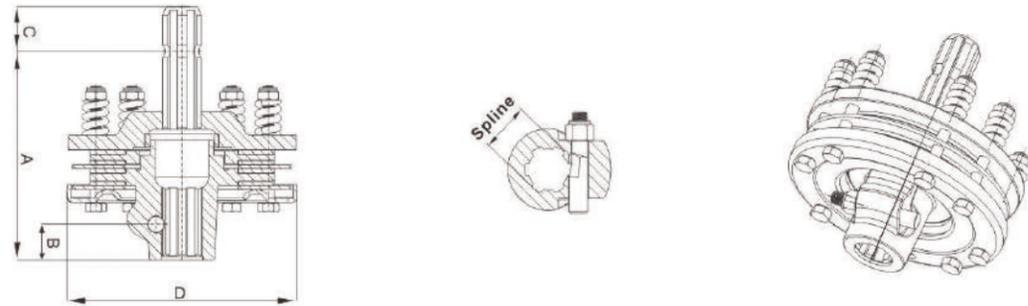


Series	Max Torque(nm)	Friction Disc	Spline(female)	Spline(male)	A(mm)	B(mm)	C(mm)	D(mm)
FFVS1	1200	φ140	13/8"Z6	13/8"Z6	161.5	29	38	φ180
FFVS1D	900		1 3/8"Z21					
FFVS2	1800	φ160	13/8"Z6	13/8"Z6	161.5	29	38	φ200
FFVS2D			13/8"Z21					
FFVS2C			13/8"Z6					
FFVS2E			13/8"Z20					

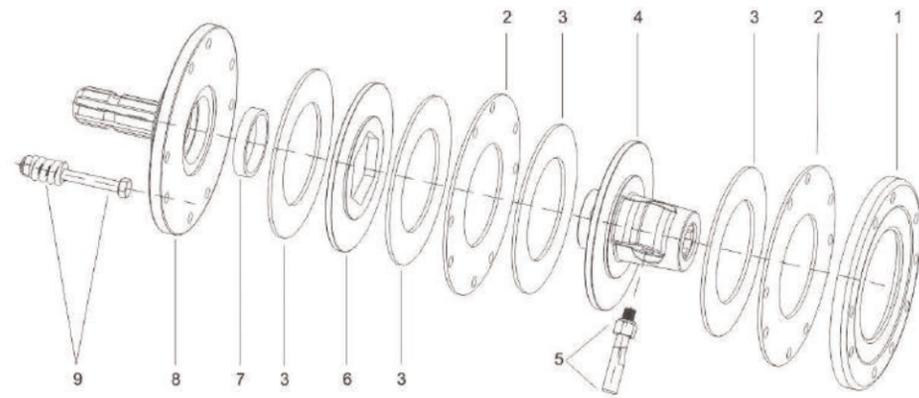


No.	Description	Notes
1	Pressure plate	
2	Internal disc	
3	Friction lining	Qty.=2
4	Hub	
5	Taper pin for hub	Qty.=2
6	Bushing	
7	Flanged yoke	
8	Complete bolt&Spring	Qty.=8

FRICITION TORQUE LIMITER

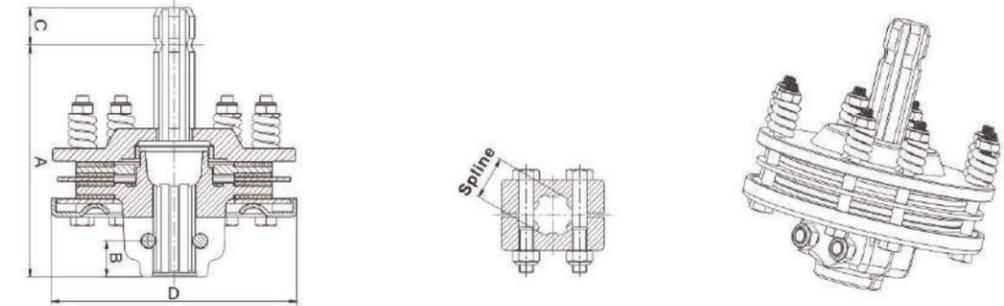


Series	Max Torque(nm)	Friction Disc	Spline(female)	Spline(male)	A(mm)	B(mm)	C(mm)	D(mm)
FFS3	1500	φ140	13/8"Z6	13/8"Z6	177	29	38	φ180
FFS3D			1 3/8"Z21					
FFS4	2500	φ160	13/8"Z6	13/8"Z6	177	29	38	φ200
FFS4D			13/8"Z21					
FFS4C			13/8"Z6					
FFS4E			13/8"Z20					

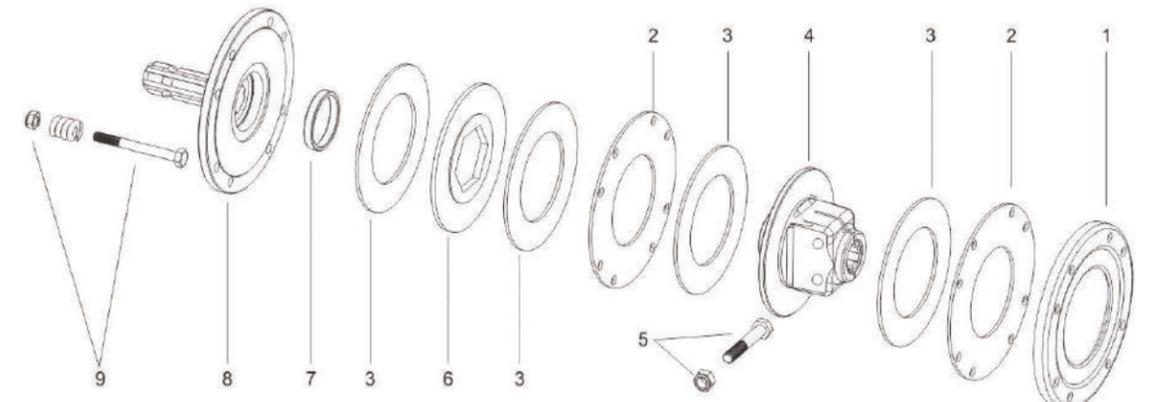


No.	Description	Notes
1	Pressure plate	
2	Internal disc	
3	Friction lining	Qty.=2
4	Hub	Qty.=4
5	Taper pin for hub	
6	Intermediate hub	With nuts
7	Bushing	
8	Flanged spline	
9	Complete bolt & Spring	Qty.=8

FRICITION TORQUE LIMITER

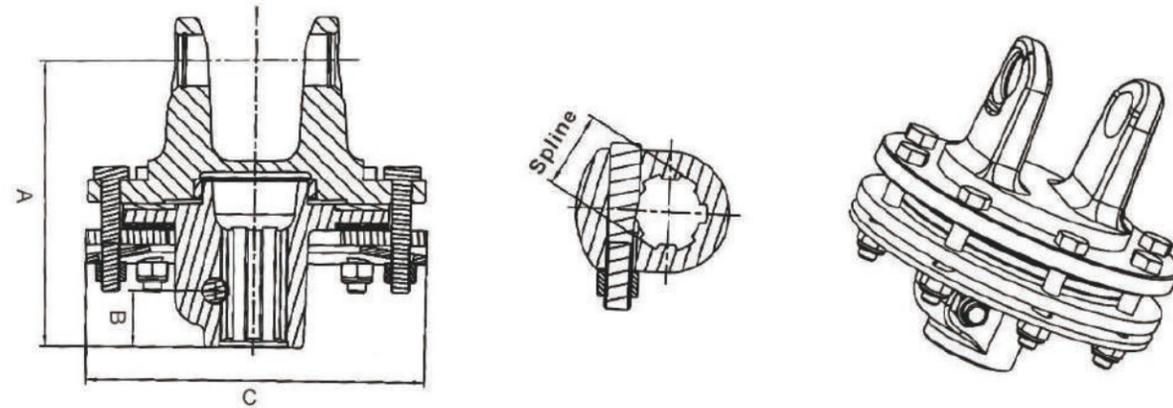


Series	Max Torque(nm)	Friction Disc	Spline(female)	Spline(male)	A(mm)	B(mm)	C(mm)	D(mm)
FFVS3	2000	φ140	13/8"Z6	13/8"Z6	177	29	38	φ180
FFVS3D			1 3/8"Z21					
FFVS4	2500	φ160	13/8"Z6	13/8"Z6	177	29	38	φ200
FFVS4D			13/8"Z21					
FFVS4C			13/8"Z6					
FFVS4E			13/8"Z20					



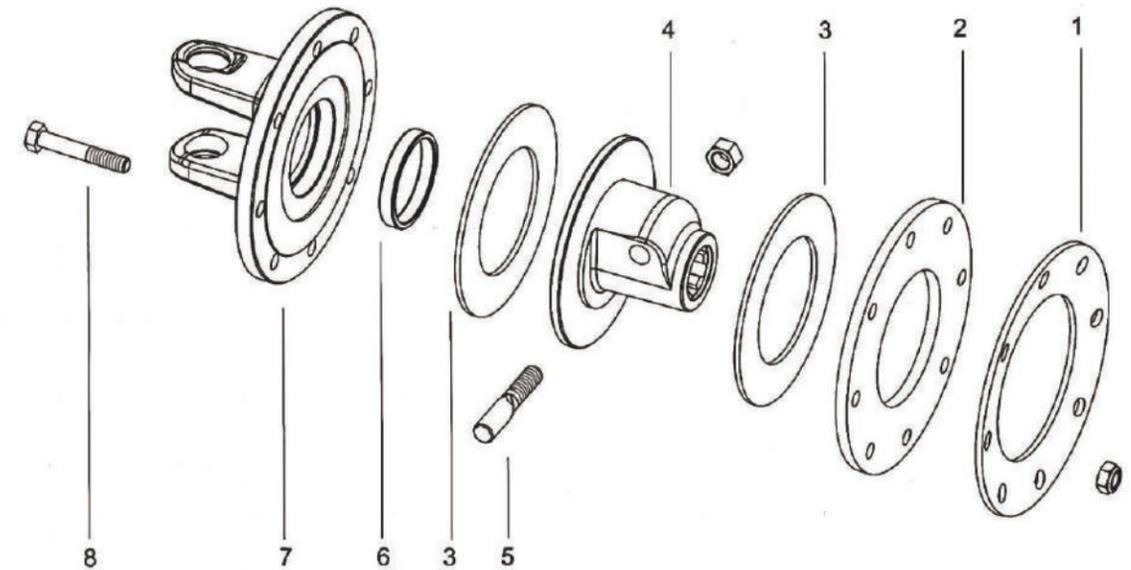
No.	Description	Notes
1	Pressure plate	
2	Internal disc	
3	Friction lining	Qty.=2
4	Hub	Qty.=4
5	Taper pin for hub	
6	Intermediate hub	With nuts
7	Bushing	
8	Flanged spline	
9	Complete bolt & Spring	Qty.=8

FRICITION TORQUE LIMITER



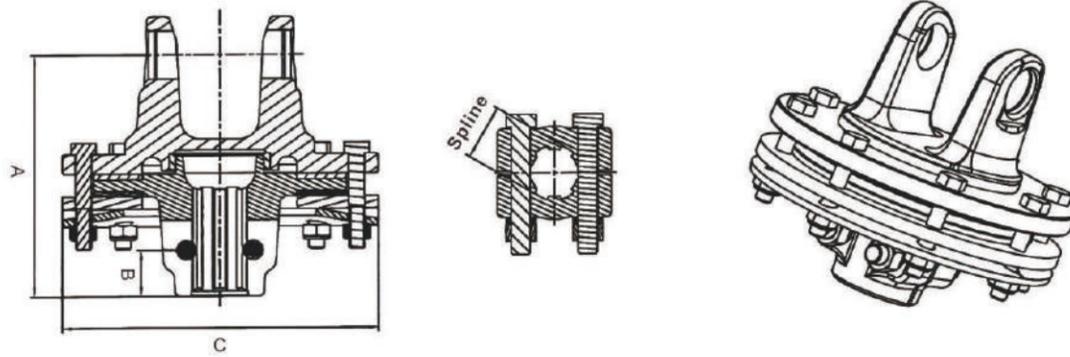
Series	Max Torque(nm)	Friction Disc	Spline	A(mm)	B(mm)	C(mm)	
4FFTO	800	φ120	13/8"Z6	150	29	φ160	
5FFTO			13/8"Z6	152			
4FFT1	900	φ140	13/8"Z6	150	29	φ180	
4FFT1D			13/8"Z21	150			
5FFT1			13/8"Z6	152			
5FFT1D			13/8"Z21	152			
6FFT1	1200	φ160	13/8"Z6	160	29	φ200	
6FFT1D			13/8"Z21	160			
5FFT2	1200	φ160	13/8"Z6	152	29	φ200	
5FFT2D			13/8"Z21				152
5FFT2C			13/4"Z6	152			
5FFT2E			13/4"Z20	152			
6FFT2			13/8"Z6	164			164
6FFT2D			13/8"Z21				
6FFT2C			1 3/4"Z6	164			
6FFT2E			13/4"Z20	164			
7FFT2			13/8"Z6	169			169
7FFT2D			13/8"Z21				
7FFT2C	13/4"Z6	169					
7FFT2E	13/4"Z20	169					
7NFFT2	1200	φ160	13/8"Z6	164	29	φ200	
7NFFT2D			13/8"Z21				164
7NFFT2C			13/4"Z6	164			
7NFFT2E			13/4"Z20	164			
8FFT2	1200	φ160	13/8"Z6	169	29	φ200	
8FFT2D			13/8"Z21				169
8FFT2C			13/4"Z6				169
8FFT2E			13/4"Z20				169

FRICITION TORQUE LIMITER



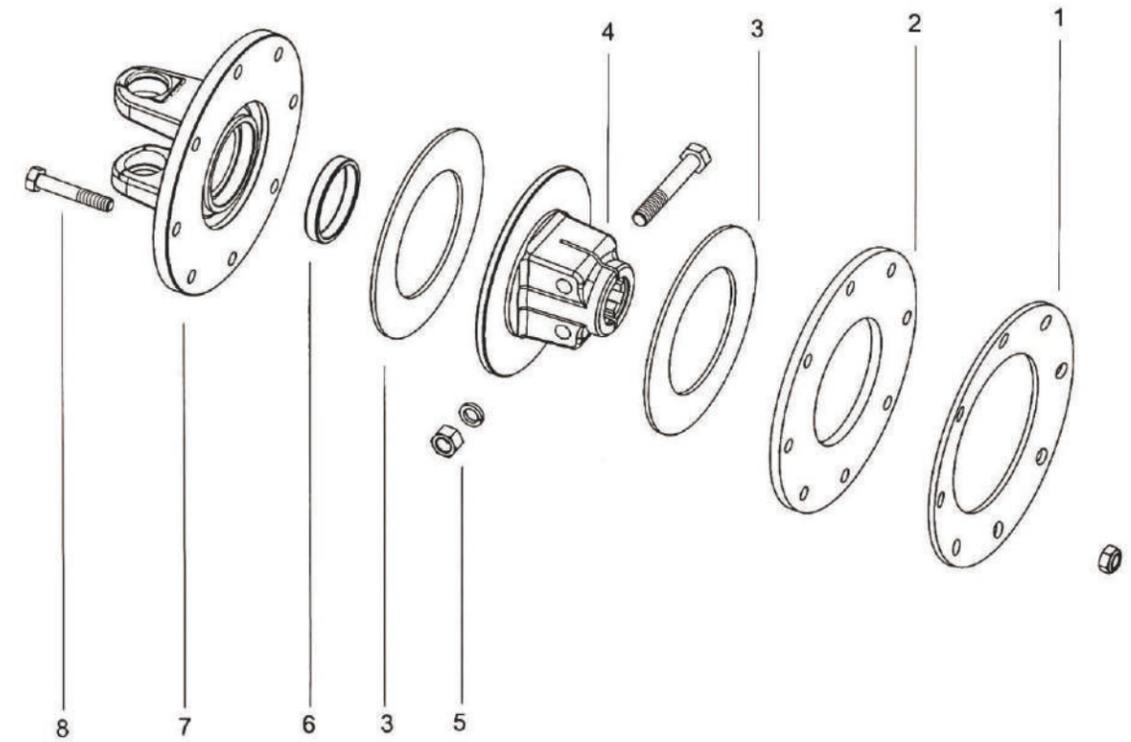
No.	Description	Notes
1	Pressure plate	
2	Internal disc	
3	Friction lining	Qty.=2
4	Hub	
5	Taper pin for hub	Qty.=2
6	Bushing	
7	Flanged yoke	
8	Complete bolt&Spring	Qty.=8

FRICITION TORQUE LIMITER



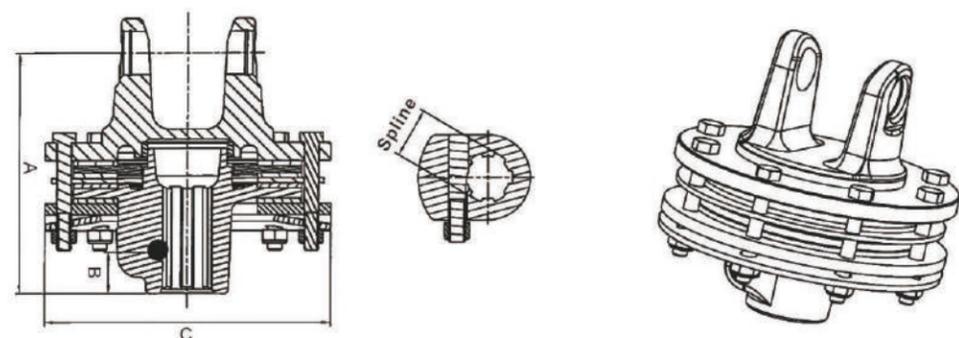
Series	Max Torque(nm)	Friction Disc	Spline	A(mm)	B(mm)	C(mm)				
4FFVT1	900	φ140	13/8"Z6	150	29	φ180				
4FFVT1D			13/8"Z21							
5FFVT1			13/8"Z6							
5FFVT1D			13/8"Z21							
6FFVT1			13/8"Z6							
6FFVT1D			13/8"Z21							
5FFVT1	1200	φ160	13/8"Z6	152	29	φ200				
5FFVT1D			13/8"Z21							
6FFVT1			13/8"Z6							
6FFVT1D			13/8"Z21							
4FFVT2			13/8"Z6	143			29	φ200		
4FFVT2D			13/8"Z21							
5FFVT2			13/8"Z6							
5FFVT2D			13/8"Z21							
6FFVT2			13/8"Z6							
6FFVT2D			1 3/8"Z21							
6FFVT2C			13/4"Z6	163					29	φ200
6FFVT2E			13/4"Z20							
7FFVT2			13/8"Z6							
7FFVT2D			13/8"Z21							
7FFVT2C	13/4"Z6	168	29	φ200						
7FFVT2E	13/4"Z20									
8FFVT2	13/8"Z6									
8FFVT2D	13/8"Z21									
8FFVT2C	13/4"Z6	168			29	φ200				
8FFVT2E	13/4"Z20									

FRICITION TORQUE LIMITER



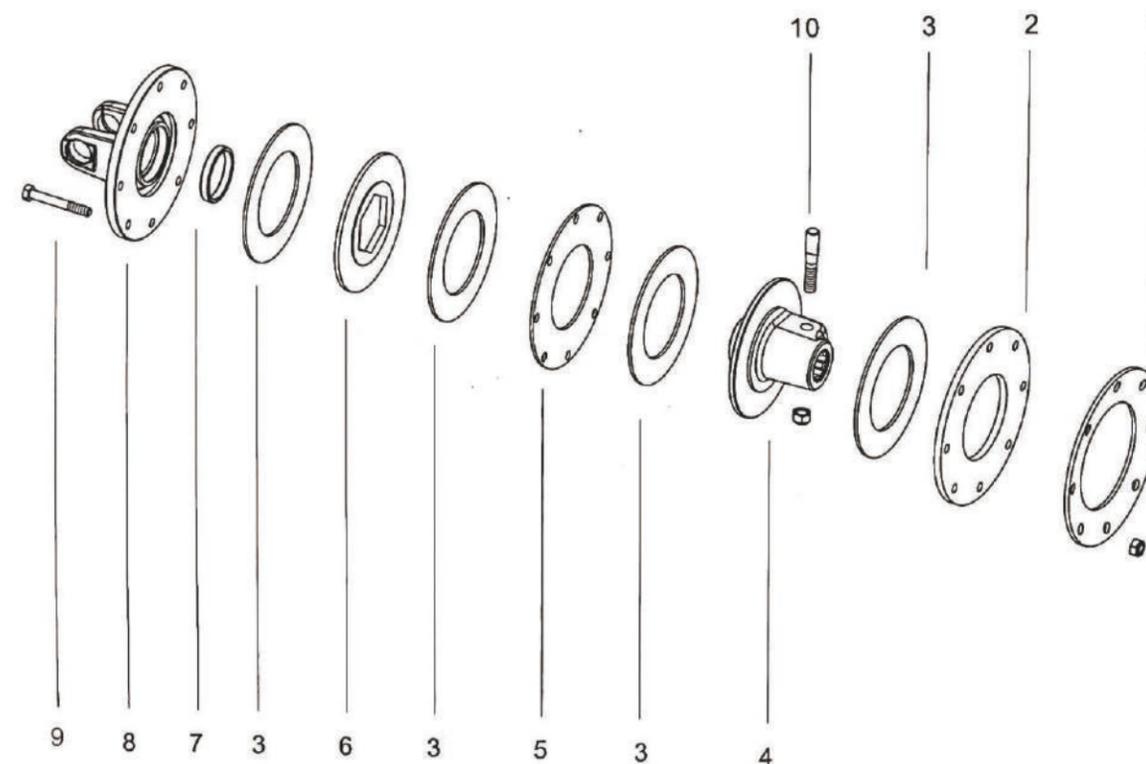
No.	Description	Notes
1	Belleville spring	
2	Pressure plate	
3	Friction discs	Qty.=2
4	Hub	
5	Complete bolt	Qty.=2
6	Bushing	
7	Flanged yoke	
8	Complete bolt	Qty.=8

FRICITION TORQUE LIMITER



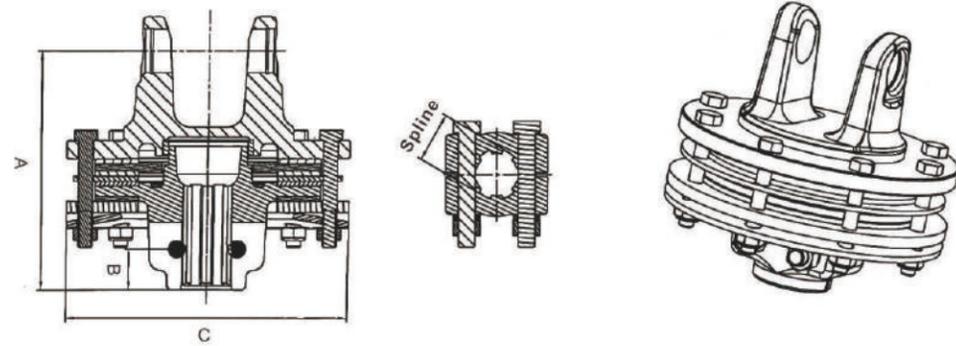
Series	Max Torque(nm)	Friction Disc	Spline	A(mm)	B(mm)	C(mm)
6FFT4	1600	φ160	13/8"Z6	172	30.5	φ200
6FFT4D			13/8"Z21			
6FFT4C			13/4"Z6			
6FFT4E			13/4"Z20			
7FFT4	2000	φ160	13/8"Z6	177	30.5	φ200
7FFT4D			13/8"Z21			
7FFT4C			13/4"Z6			
7FFT4E			1 3/4"Z20			
7NFFT4	2000	φ160	13/8"Z6	172	30.5	φ200
7NFFT4D			13/8"Z21			
7NFFT4C			13/4"Z6			
7NFFT4E			13/4"Z20			
8FFT4	184		13/8"Z6	177		
8FFT4D			13/8"Z21			
8FFT4C			13/4"Z6			
8FFT4E			1 3/4"Z20			

FRICITION TORQUE LIMITER



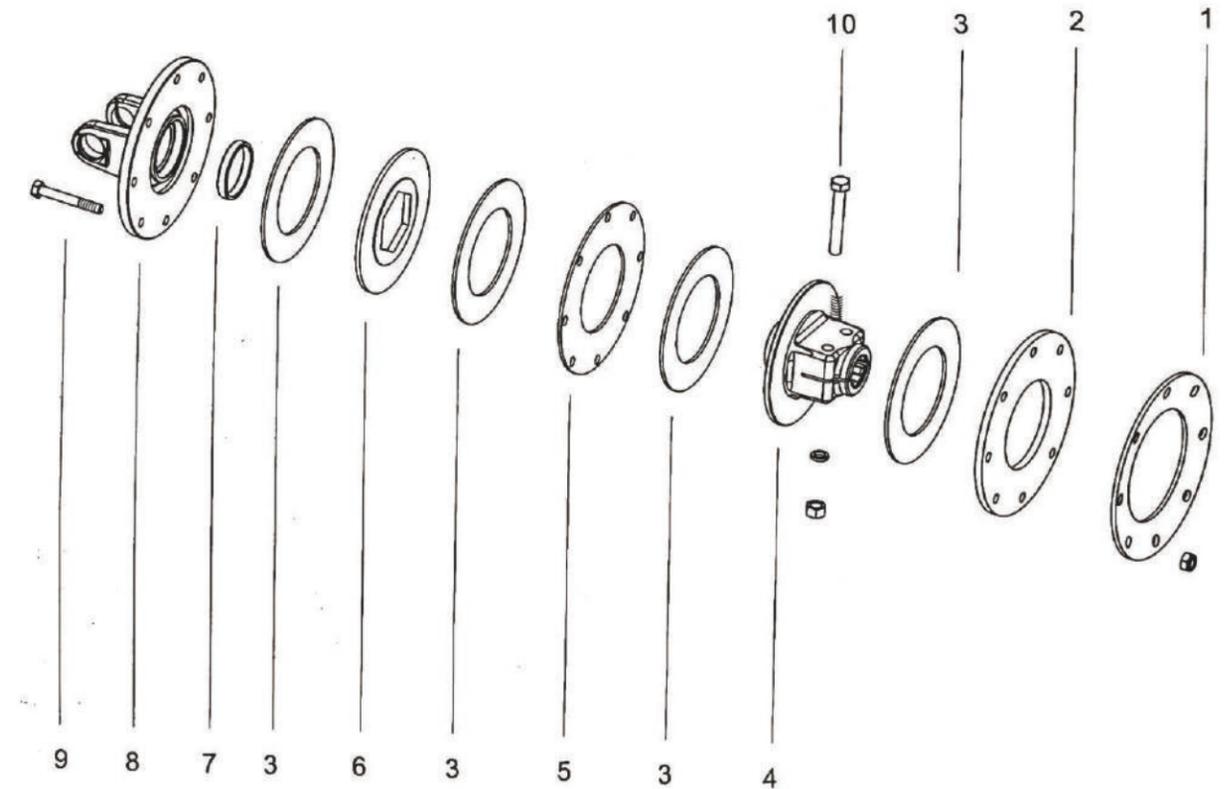
No.	Description	Notes
1	Belleville spring	
2	Pressure plate	
3	Friction discs	Qty.=4
4	Hub	
5	Pressure plate	
6	Hexagon board	
7	Bushing	
8	Flanged yoke	
9	Complete bolt	Qty.=8
10	Taper pin for hub	With nuts

FRICITION TORQUE LIMITER



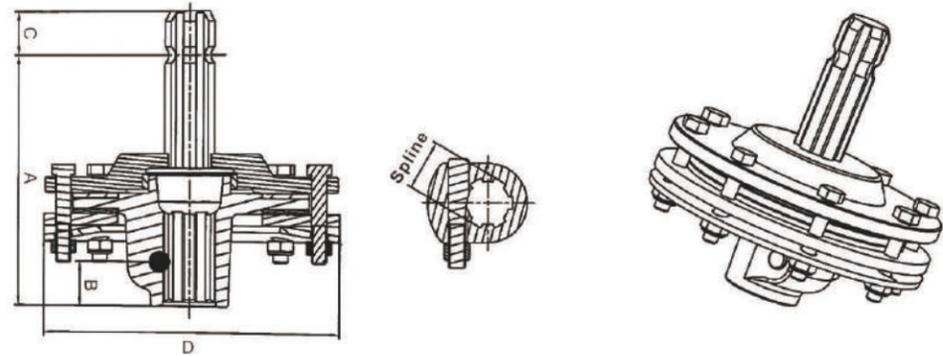
Series	Max Torque(nm)	Friction Disc	Spline	A(mm)	B(mm)	C(mm)
6FFT4	1600	φ160	13/8"Z6	175	29	φ200
6FFT4D			13/8"Z21			
6FFT4C			13/4"Z6			
6FFT4E			13/4"Z20			
7FFT4	2000	φ160	13/8"Z6	182	29	φ200
7FFT4D			13/8"Z21			
7FFT4C			13/4"Z6			
7FFT4E			1 3/4"Z20			
7NFFT4	2000	φ160	13/8"Z6	175	29	φ200
7NFFT4D			13/8"Z21			
7NFFT4C			13/4"Z6			
7NFFT4E			13/4"Z20			
8FFT4	182	φ160	13/8"Z6	182	29	φ200
8FFT4D			13/8"Z21			
8FFT4C			13/4"Z6			
8FFT4E			1 3/4"Z20			

FRICITION TORQUE LIMITER

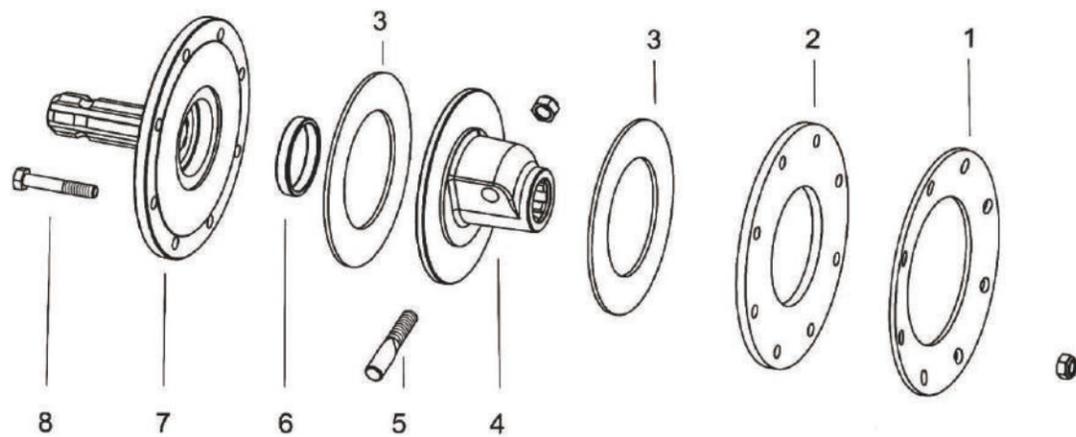


No.	Description	Notes
1	Belleville spring	
2	Pressure plate	
3	Friction discs	Qty.=4
4	Hub	
5	Pressure plate	
6	Hexagon board	
7	Bushing	
8	Flanged yoke	
9	Complete bolt	Qty.=8
10	Complete bolt	Qty.=2

FRICITION TORQUE LIMITER

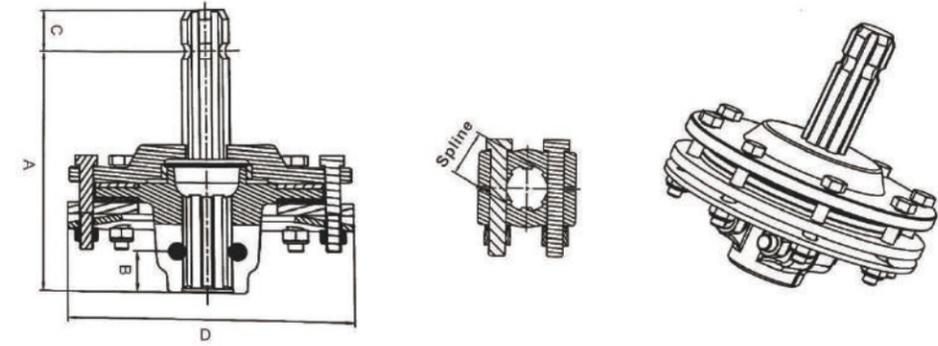


Series	Max Torque(nm)	Friction Disc	Spline(female)	Spline(male)	A(mm)	B(mm)	C(mm)	D(mm)
FFS3	1500	φ140	13/8"Z6	13/8"Z6	177	29	38	φ180
FFS3D			1 3/8"Z21					
FFS4	2500	φ160	13/8"Z6	13/8"Z6	177	29	38	φ200
FFS4D			13/8"Z21					
FFS4C			13/8"Z6					
FFS4E			13/8"Z20					

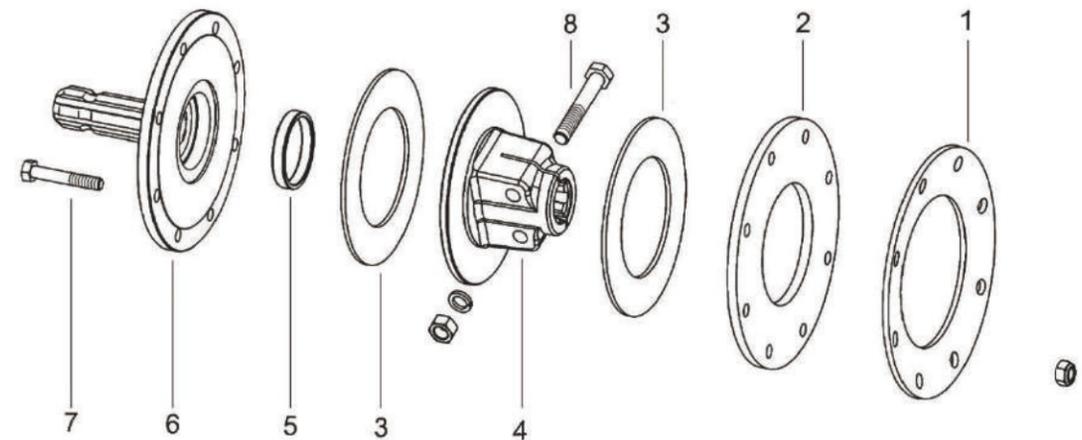


No.	Description	Notes
1	Pressure plate	
2	Internal disc	
3	Friction lining	Qty.=4
4	Hub	
5	Taper pin for hub	With nuts
6	Bushing	
7	Flanged spline	
8	Complete bolt & Spring	Qty.=8

FRICITION TORQUE LIMITER

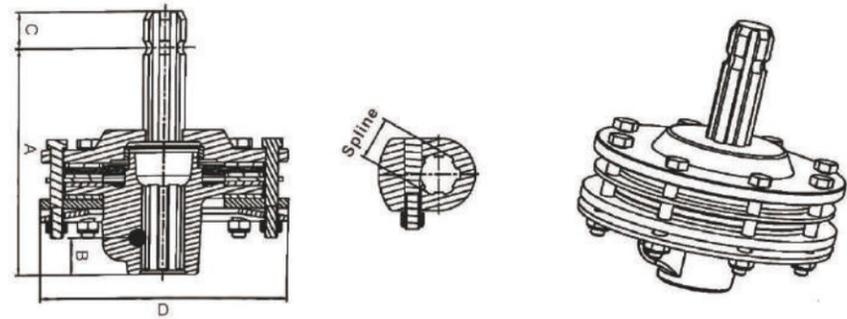


Series	Max Torque(nm)	Friction Disc	Spline(female)	Spline(male)	A(mm)	B(mm)	C(mm)	D(mm)
FFSVT1	900	φ140	13/8"Z6	13/8"Z6	161.5	29	38	φ180
FFSVT2			1 3/8"Z21					
FFSVT2D	1200	φ160	13/8"Z6	13/8"Z6	161.5	29	38	φ200
FFSVT2C			13/8"Z21					
FFSVT2E			13/8"Z6					
			13/8"Z20					

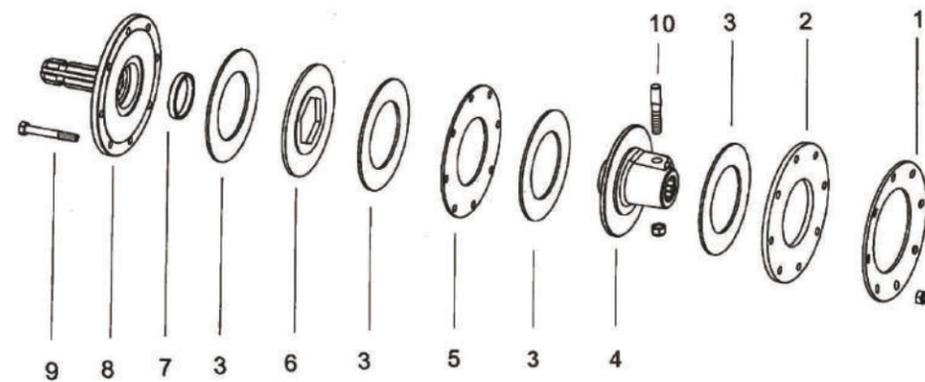


No.	Description	Notes
1	Belleville spring	
2	Pressure plate	
3	Friction discs	Qty.=4
4	Hub	
5	Bushing	With nuts
6	Splined shaft welded assembly	
7	Complete bolt	Qty.=8
8	Complete bolt	Qty.=2

FRICITION TORQUE LIMITER

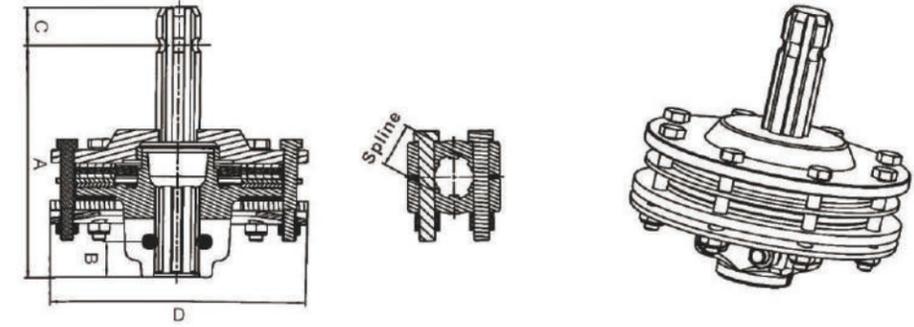


Series	Max Torque(nm)	Friction Disc	Spline(female)	Spline(male)	A(mm)	B(mm)	C(mm)	D(mm)
FFST3	900	φ140	13/8"Z6					φ180
FFST4			13/8"Z6					
FFST4D	1200	φ160	13/8"Z21	13/8"Z6	161.5	29	38	φ200
FFST4C			13/8"Z6					
FFST4E			13/8"Z20					

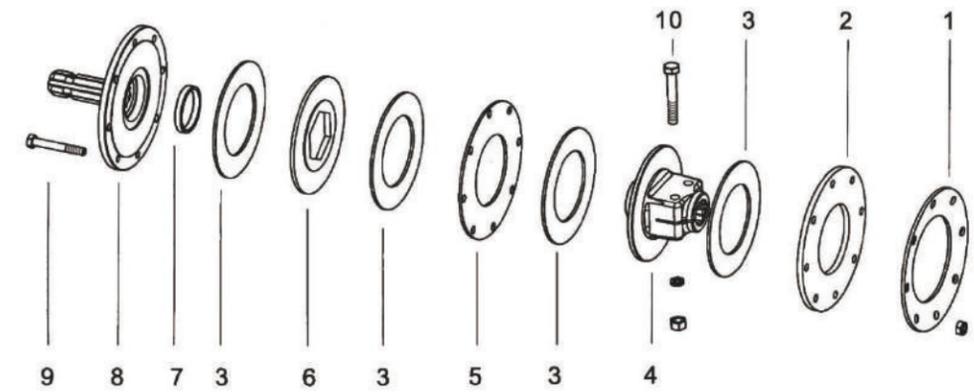


No.	Description	Notes
1	Belleville spring	
2	Pressure plate	
3	Friction discs	Qty.=4
4	Hub	
5	Pressure plate	
6	Hexagon board	
7	Bushing	
8	Splined shaft welded assembly	
9	Complete bolt	Qty.=8
10	Taper pin for hub	With nuts

FRICITION TORQUE LIMITER

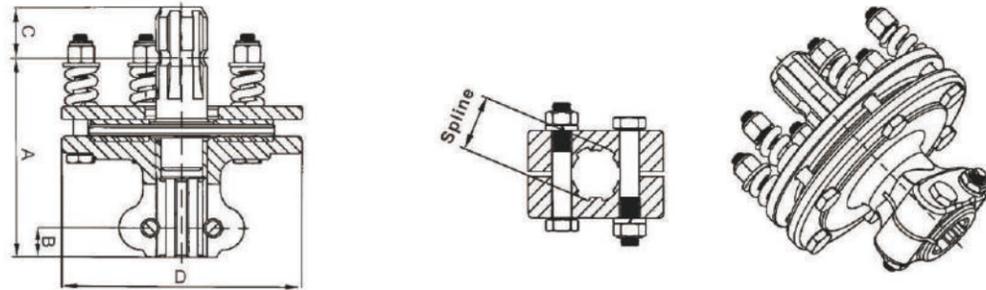


Series	Max Torque(nm)	Friction Disc	Spline(female)	Spline(male)	A(mm)	B(mm)	C(mm)	D(mm)
FFSVT1	900	φ140	13/8"Z6	13/8"Z6	161.5	29	38	φ180
FFSVT2			1 3/8"Z21					
FFSVT2D	1200	φ160	13/8"Z6	13/8"Z6	161.5	29	38	φ200
FFSVT2C			13/8"Z21					
FFSVT2E			13/8"Z6					
			13/8"Z20					

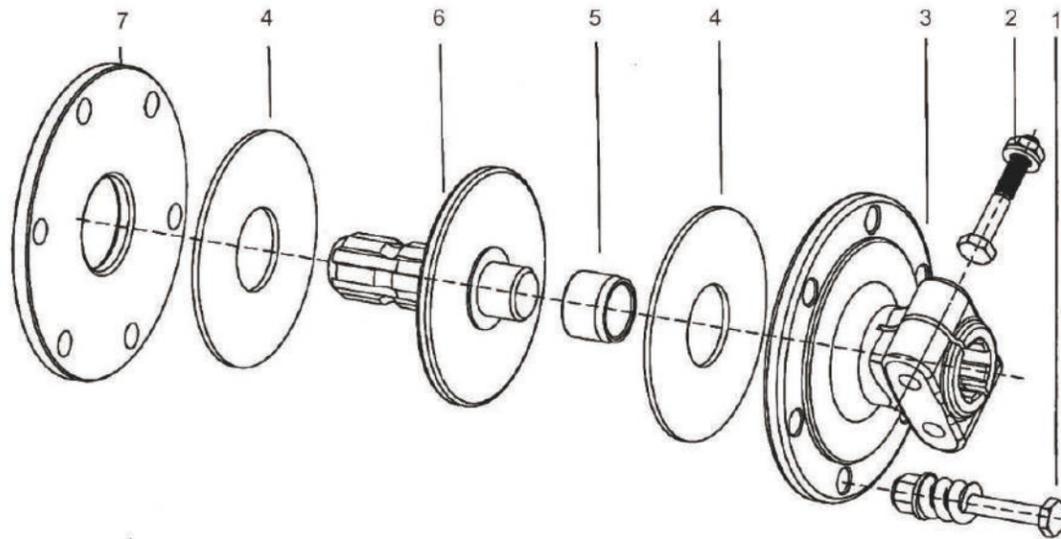


No.	Description	Notes
1	Belleville spring	
2	Pressure plate	
3	Friction discs	Qty.=4
4	Hub	
5	Pressure plate	
6	Hexagon board	
7	Bushing	
8	Splined shaft welded assembly	
9	Complete bolt	Qty.=2
10	Taper pin for hub	Qty.=8

FRICITION TORQUE LIMITER

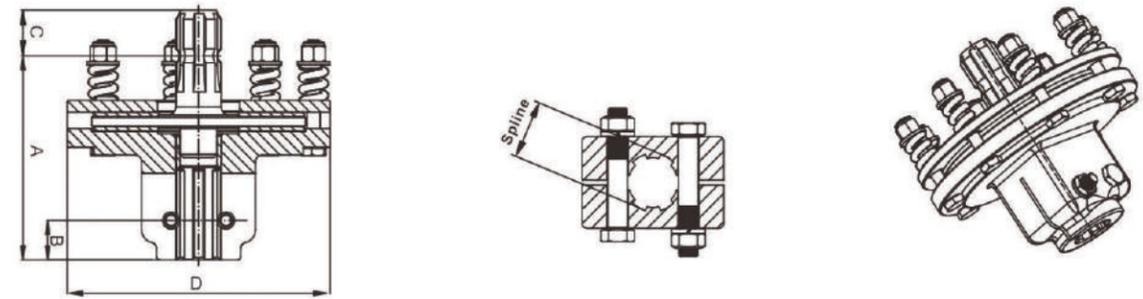


Series	Friction Disc	Disc Qty	Max Torque(nm)	Spline (female)	Spline (male)	A(mm)	B(mm)	C(mm)	D(mm)
FCS165	φ125	2	800	13/8"Z6	13/8"Z6	140	20	35	φ165
FCS165D	φ125	2	800	13/8"Z21	13/8"Z6	140	20	35	φ165

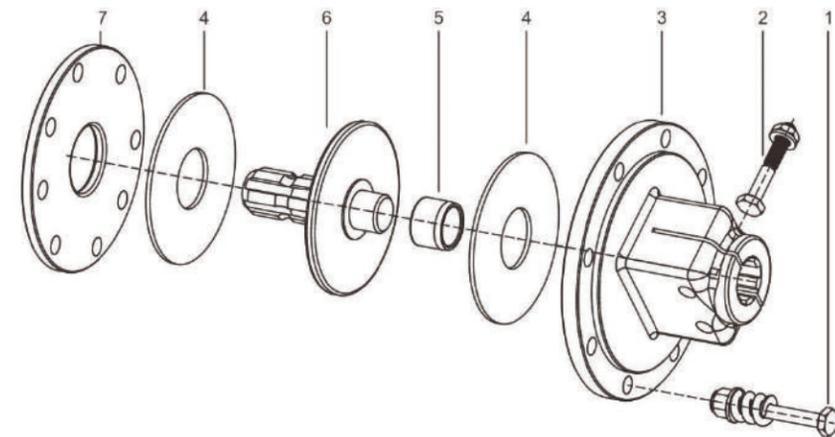


No.	Description	Notes
1	Complete bolt & Spring	Qty.=6
2	Complete bolt	Qty.=2
3	Hub with flange	
4	Friction disc	Qty.=2
5	Plastic bearing	
6	Flanged spline	
7	Pressure plate	

FRICITION TORQUE LIMITER



Series	Max Torque(nm)	Friction Disc	Spline(female)	Spline(male)	A(mm)	B(mm)	C(mm)	D(mm)
FFSVT1	900	φ140	13/8"Z6	13/8"Z6	161.5	29	38	φ180
FFSVT2			1 3/8"Z21					
FFSVT2D	1200	φ160	13/8"Z6	13/8"Z6	161.5	29	38	φ200
FFSVT2C			13/8"Z21					
FFSVT2E			13/8"Z6					
			13/8"Z20					



No.	Description	Notes
1	Complete bolt & Spring	Qty.=8
2	Complete bolt	Qty.=2
3	Hub with flange	
4	Friction disc	Qty.=2
5	Plastic bearing	
6	Flanged spline	
7	Pressure plate	

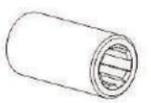
STANDARD PROFILE FOR AGRICULTURE SPLINES

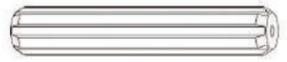
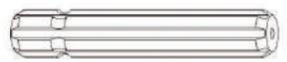
Name	Spline(female)	Spline(male)	Drawings
A 1 1/8"-Z6			
B 1 3/8"-Z6			
C 1 3/4"-Z6			
D 1 3/8"-Z21			
E 1 3/4"-Z20			
F 8-42x48x8			
G 8-32x38x6			
N 8-42x36x7			

PTO ADAPTOR

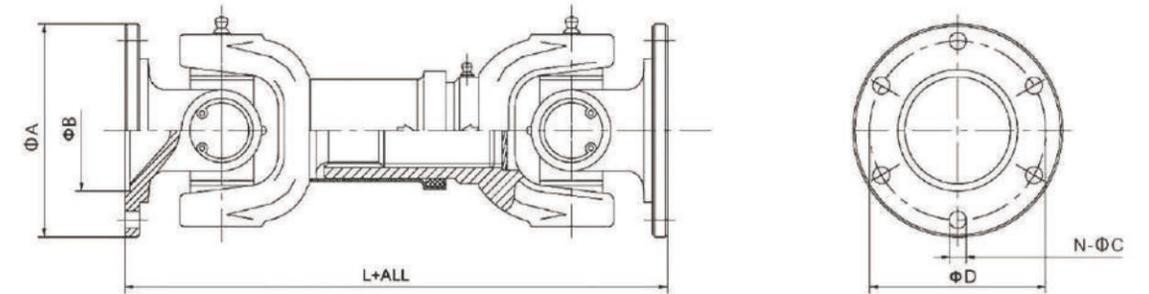
Name	Spline(female)	Spline(male)	Length(mm)	Drawings		
00.18.02B*A	1 3/8"Z6	1 1/8"Z6	140			
00.18.02B*B		1 3/8"Z6	160			
00.18.02B*D		1 3/8"Z21	160			
00.18.02B*G		8-32x38x6	160			
00.18.02B*C		1 3/4"Z6	175			
00.18.02B*E	1 3/8"Z21	1 3/4"Z20	175			
00.18.02D*B		1 3/8"Z6	160			
00.18.02D*D		1 3/8"Z21	160			
00.18.02D*G		8-32x38x6	160			
00.18.02D*C		1 3/4"Z6	175			
00.18.02D*E	1 3/4"Z6	1 3/4"Z20	175			
00.18.02C*B		1 3/8"Z6	175			
00.18.02C*D		1 3/8"Z2	175			
00.18.02C*G		18-32x38x6	175			
00.18.02C*C		1 3/4"Z6	175			
00.18.02C*E	1 3/4"Z20	1 3/4"Z20	175			
00.18.02E*B		1 3/8"Z6	175			
00.18.02E*D		1 3/8"Z21	175			
00.18.02E*G		8-32x38x6	175			
00.18.02E*C		1 3/4"Z6	175			
00.18.02E*E	8-32x38X6	1 3/4"Z20	175			
00.18.02G*B		1 3/8"Z6	160			
00.18.02G*D		1 3/8"Z21	160			
00.18.02G*G		8-32x38x6	160			
00.18.02G*C		1 3/4"Z6	175			
00.18.02G*E	1 3/4"Z20	1 3/4"Z20	175			
00.18.07B*A		1 3/8"Z6	1 1/8"Z6		140	
00.18.07B*B			1 3/8"Z6		160	
00.18.07B*D			1 3/8"Z21		160	
00.18.07B*G			8-32x38x6		160	
00.18.07B*C	1 3/4"Z6		175			
00.18.07B*E	1 3/8"Z21	1 3/4"Z20	175			
00.18.07D*B		1 3/8"Z6	160			
00.18.07D*D		1 3/8"Z21	160			
00.18.07D*G		8-32x38x6	165			
00.18.07D*C		1 3/4"Z6	175			
00.18.07D*E	8-32x38X6	1 3/4"Z20	175			
00.18.07G*B		1 3/8"Z6	160			
00.18.07G*D		1 3/8"Z21	160			
00.18.07G*G		8-32x38x6	165			
00.18.07G*C		1 3/4"Z6	175			
00.18.07G*E	1 3/4"Z20	1 3/4"Z20	175			

PTO HUB&SPLINED SHAFT

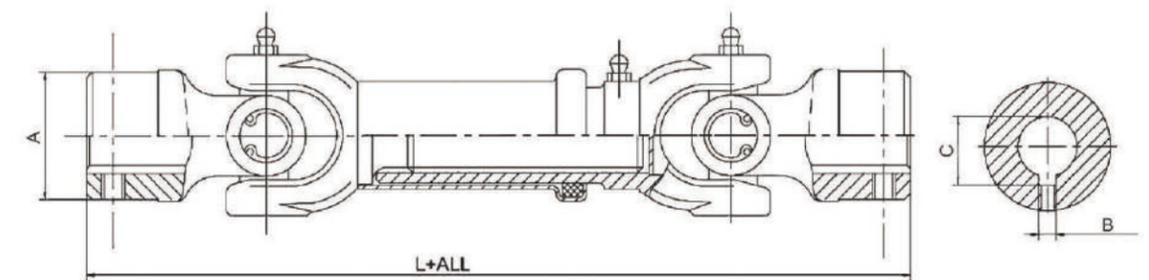
Name	Spline	Length(mm)	Drawings
00.20.A	1 1/8" Z6	60/65/80/100	
00.20.B	1 3/8" Z6	60/65/80/100	
00.20.C	1 3/4" Z6	60/65/80/100	
00.20.D	1 3/8" Z21		
00.20.E	1 3/4" Z20		

Name	Spline	Length(mm)
00.19.A1	1 1/8" Z6	
00.19.B1	1 3/8" Z6	
00.19.C1	1 3/4" Z6	
00.19.D1	1 3/8" Z21	
00.19.E1	1 3/4" Z20	
00.19.A2	1 1/8" Z6	
00.19.B2	1 3/8" Z6	
00.19.C2	1 3/4" Z6	
00.19.D2	1 3/8" Z21	
00.19.E2	1 3/4" Z20	
00.19.BT	1 3/8" Z6	
00.19.BT1		
00.19.BT2		
00.19.GT	8-32X38X6	
00.19.GT1		
00.19.GT2		

INDUSTRIAL CARDAN SHAFT SERIES



No.	L+ALL	A(mm)	B(mm)	C(mm)	D(mm)	Cross
1	L+ALL	58	30	4-5.00	47	φ18X47
2		65	35	4-6.00	52	φ20X50
3		75	42	6-6.00	62	φ23.8X61.3
4		90	47	4-8.00	74.5	φ27X74.6
5		100	57	4-8.00	79.4	φ27X81.8
6		100	57	6-8.00	84	φ30X81.8
7		120	75	8-10.00	101.5	φ35X97
8		120	75	8-12.00	130	φ39.68X115.7
9		150	90	8-12.00	130	φ42/48X115.7
10		150	90	8-12.00	130	φ45X123
11		150/165	90	8-14.00	140	φ52X133
12		180	110	10-16.00	155	φ57X153

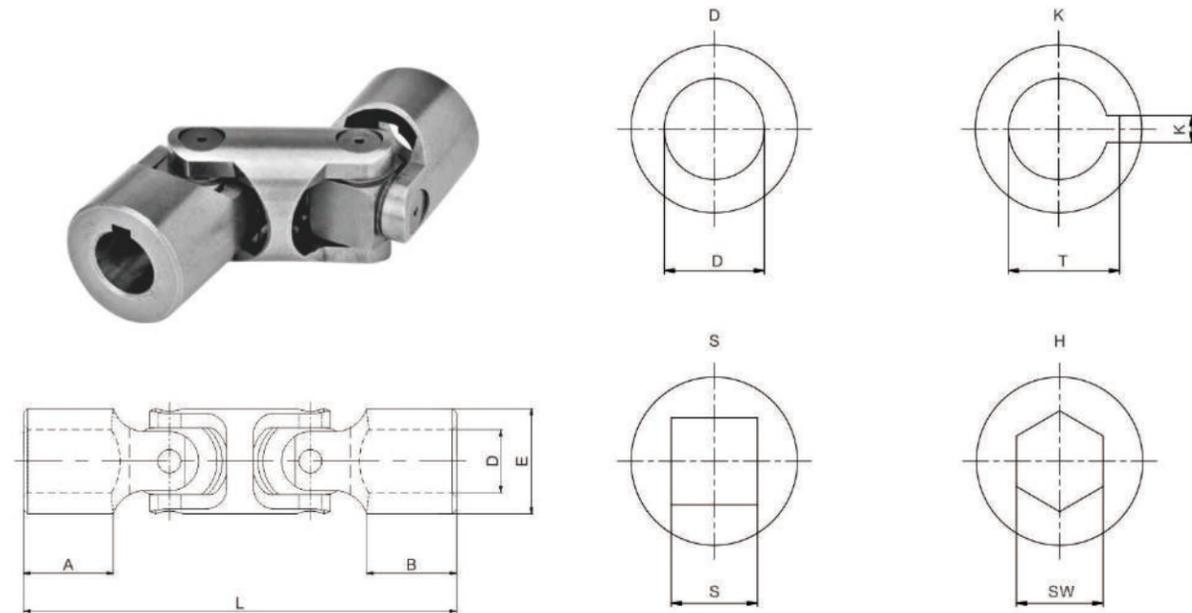


NO.	L+ALL	A(mm)	B(mm)	C(mm)	Cross
1	L+ALL	43/44	8	22.8	φ18x47
2		55/57		33.3	φ23.8x61.3
3		55/57		38.7	φ30x81.8

PTO HUB&SPLINED SHAFT

PB-D22-12D-79

Series: PB
Double: D
Outer Diameter: 22
Length: 12
End hub Configuration: D
Inside Diameter: 79

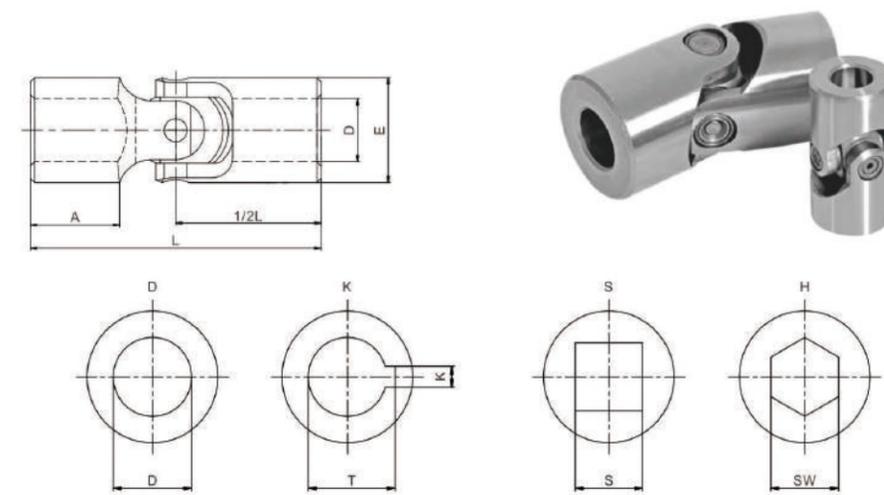


Series	D(h7)	E	L	A	B	K(js9)	T	S(h8)	Sw(h8)
PB-D20	10	20	74	11.5	22.5	3	11.4	10	10
PB-D22	12	22	49	14	25	4	13.8	12	12
PB-D25	14	25	89	15	28	5	16.3	14	14
PB-D29	16	29	100	18	32.5	5	18.3	16	16
PB-D32	18	32	111	19	36	6	20.8	18	18
PB-D35	20	35	120	21.5	39	6	22.8	20	20
PB-D37	20	37	128	21	41	6	22.8	20	20
PB-D40	22	40	145	25.5	47.5	6	24.8	22	22
PB-D45	25	45	163	31	54	8	28.3	25	25
PB-D50	30	50	185	35	61	8	33.3	30	30
PB-D60	35	60	232	49	80	10	38.3	35	35
PB-D70	40	70	225	33.5	70	12	43.3		
PB-D80	45	80	260	38	80	14	48.8		
PB-D95	50	95	310	45	95	14	53.8		

INDUSTRIAL CARDAN SHAFT SERIES

PB-S16-8D-40

Series: PB
Single: S
Outer Diameter: 16
Length: 8
End hub Configuration: D
Inside Diameter: 40



Series	D(h7)	E	L	A	B	K(js9)	T	S(h8)	Sw(h8)
PB-S13	6	13	40	13	20				
PB-S16	8	16	40	11	20	2	9	8	8
PB-S20	10	20	45	11.5	22.5	3	11.4	10	10
PB-S22	12	22	50	14	25	4	13.8	12	12
PB-S25	14	25	56	15	28	5	16.3	14	14
PB-S29	16	29	65	18	32.5	5	18.3	16	16
PB-S32	18	32	72	19	36	6	20.8	18	18
PB-S35	20	35	78	21.5	39	6	22.8	20	20
PB-S37	20	37	82	21	41	6	22.8	20	20
PB-S40	22	40	95	25.5	47.5	6	24.8	22	22
PB-S45	25	45	108	31	54	8	28.3	25	25
PB-S50	30	50	122	35	61	8	33.3	30	30
PB-S60	35	60	160	49	80	10	38.3	35	35
PB-S70	40	70	140	33.5	70	12	43.3		
PB-S80	45	80	160	38	80	14	48.8		
PB-S95	50	95	190	45	95	14	53.8		

SAFETY AND WORKING CONDITIONS

9K has always considered safety as one of the most important design and construction parameters for its products which are all built in full compliance with the international ISO standard and EU safety regulations. Information on safety and on correct final user's application of PTO drive shaft are provided in safety labels. And the "Use and Maintenance" handbook is provided with every single PTO drive shaft. It is hoped that customers inform k, about the country to which the PTO drive shaft will be delivered, in order to provide the suitable Manuals and Labels. At the same time, 9K support the OEM service for domestic and overseas enterprises.

Equipped with:

- ① Safety labels
- ① Safety chains
- ① Instruction handbook



Label on outer protective tube

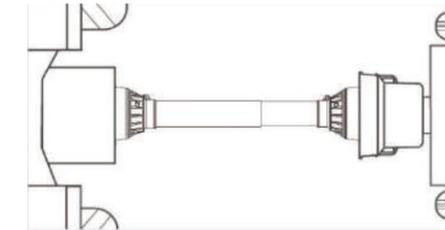


"Use and Maintenance" handbook

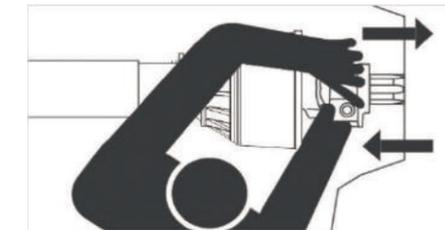
SAFETY AND WORKING CONDITIONS

Please read carefully before use "Use and Maintenance" handbook.

Before starting to work, make sure that:

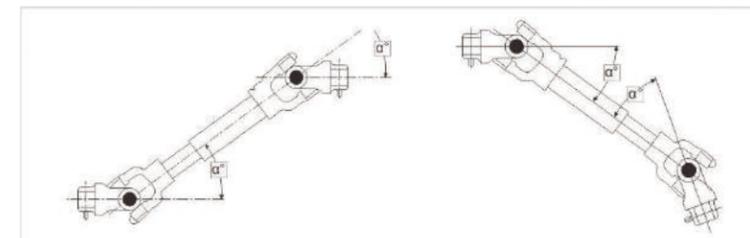


Ensure that all driveline, tractor and implement shields are functional and in place before operation. Damaged or missing parts must be replaced with original spare parts, correctly installed, before using the driveline.



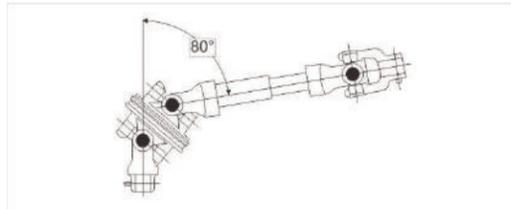
Ensure that the driveline is securely attached to the tractor.

The joint angles are limited and equal. For operations that exceed 35°, disengage the power take-off.

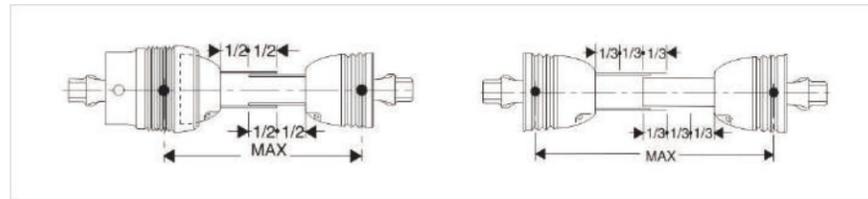


SAFETY AND WORKING CONDITIONS

The PTO drive shaft joint does not operate continuously with an angle close to 80° but only for brief periods (steering).



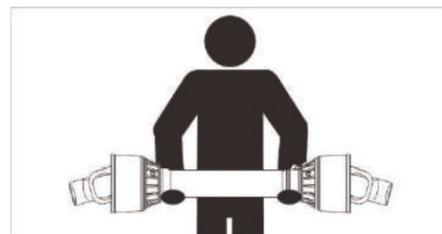
1/3 of the transmissions telescopic elements are always overlapping in the standard transmission and 1/2 in the PTO drive shaft transmission.



DANGER! Rotating driveline-contact can cause death. Keep away! Do not wear loose clothing, jewelry, or hair that could become entangled with the driveline.

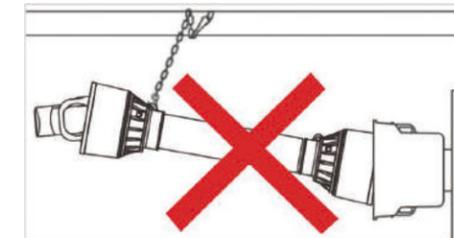


The transmission must be transported horizontally to prevent accidents (since it may slip out) or to avoid damage to safety guards. Depending on the weight, use a suitable means of transport.



SAFETY AND WORKING CONDITIONS

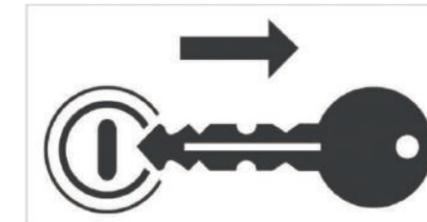
Never use the safety chains to support the driveline for storage. Always use the support on the implement.



Do not stand on the driveline. Do not step over, or go under the driveline.



Disengage the PTO, turn off the tractor engine, and remove the key before approaching the implement or performing maintenance work.



Friction clutches may become hot during use. Do not touch! Keep the area around the friction clutch clear of any material which could catch fire and avoid prolonged slipping.

