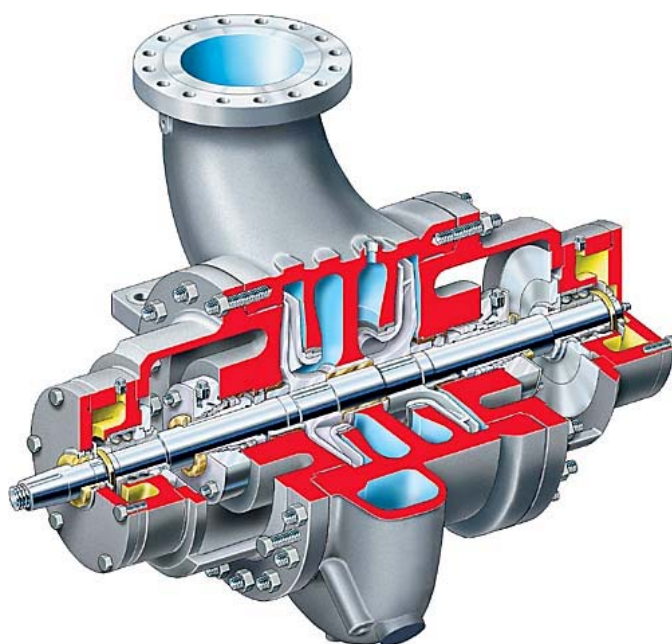
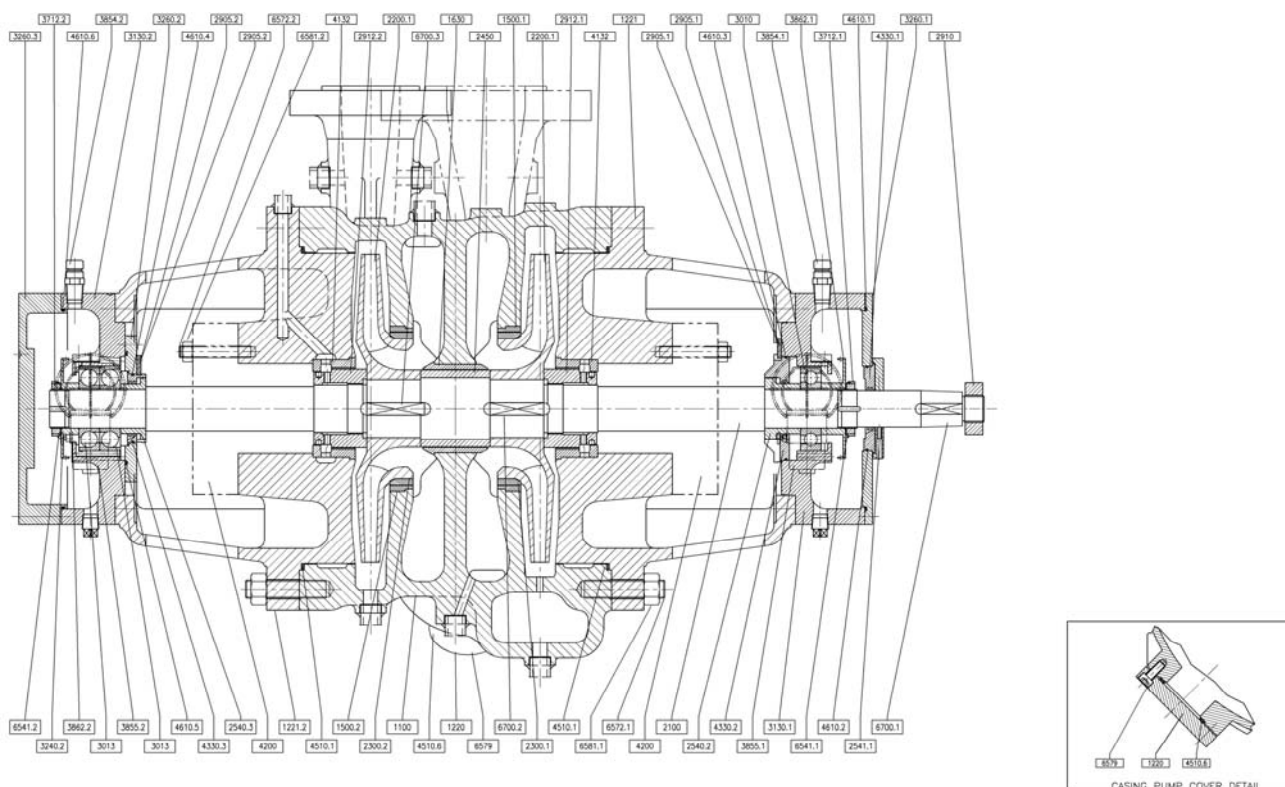




Type: HED/HED-DS
CENTRIFUGAL PUMPS

8 PARTS LIST AND DRAWINGS

8.1 HED Antifriction Bearing + Slinger Lubrication



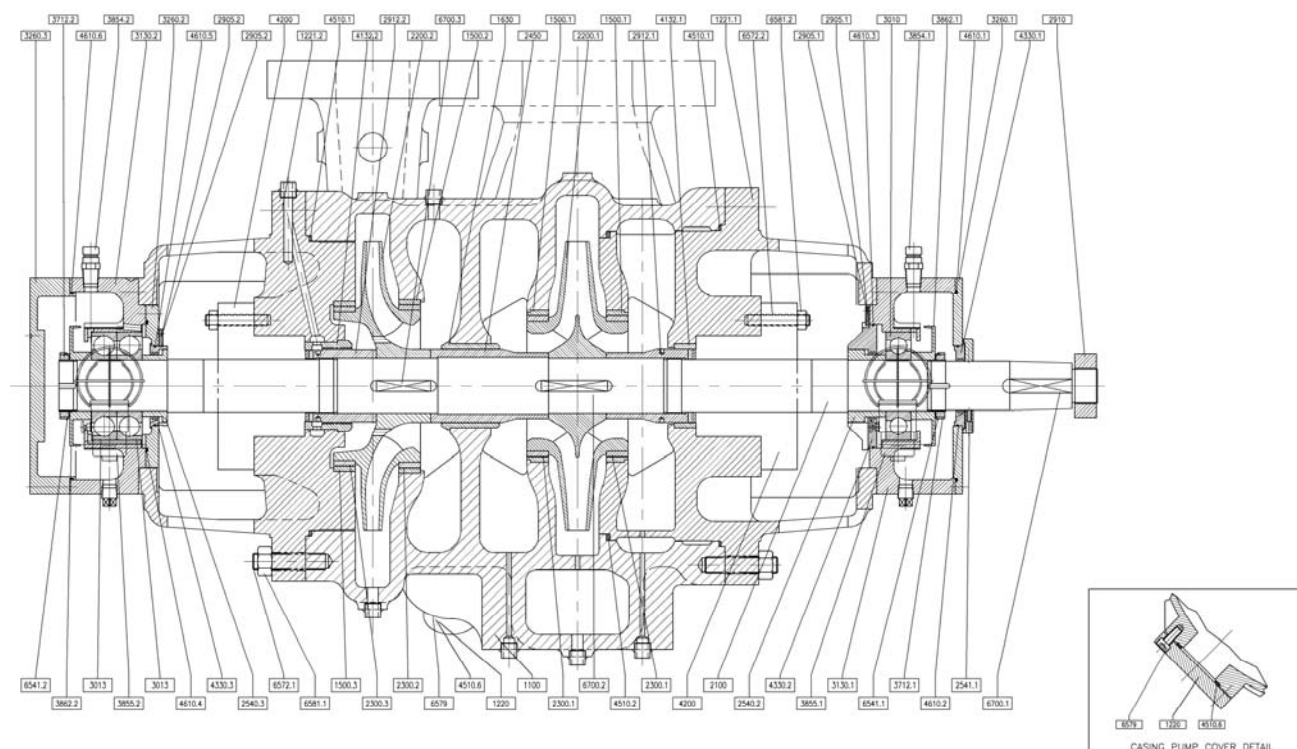
8.1.1 Parts list

Ref no	Description
2912.1	Impeller Nut
2910	Shaft Nut
2905.2	Washer
2905.1	Washer
2541.1	Deflector
2540.3	Deflector
2540.2	Deflector
2450	Shaft Sleeve
2300.2	Impeller Wear Ring
2300.1	Impeller Wear Ring
2200.1	Impeller
2100	Shaft
1630	Throttling Bush
1500.2	Casing Wear Ring
1500.1	Casing Wear Ring
1221.2	Casing Cover
1221	Casing Cover
1220	Cover
1100	Casing
6700.3	Key

Ref no	Description
4200	Mechanical Seal
4132	Stuffing Box Bushing
3862.2	Lubricating Disk Thrower
3862.1	Lubricating Disk Thrower
3855.2	Constant Level Oiler
3855.1	Constant Level Oiler
3854.2	Oil Filter Plug
3854.1	Oil Filter Plug
3712.2	Bearing Nut
3712.1	Bearing Nut
3260.3	Bearing Cover
3260.2	Bearing Cover
3260.1	Bearing Cover
3240.2	Intermediate Bearing Sleeve
3130.2	Bearing Bracket
3130.1	Bearing Bracket
3013	Thrust Ball Bearing
3010	Anti-Friction Bearing
2912.2	Impeller Nut
6700.2	Key

Ref no	Description
6700.1	Key
6581.2	Hexagon Nut
6581.1	Hexagon Nut
6579	Socket Head Cap Screw
6572.2	Stud
6572.1	Stud
6541.2	Lockwasher
6541.1	Lockwasher
4610.6	'O'-Ring
4610.5	'O'-Ring
4610.4	'O'-Ring
4610.3	'O'-Ring
4610.2	'O'-Ring
4610.1	'O'-Ring
4510.6	Gasket
4510.1	Gasket
4330.3	Labyrinth Ring
4330.2	Labyrinth Ring
4330.1	Labyrinth Ring

8.2 HED-DS Antifriction Bearing + Slinger Lubrication



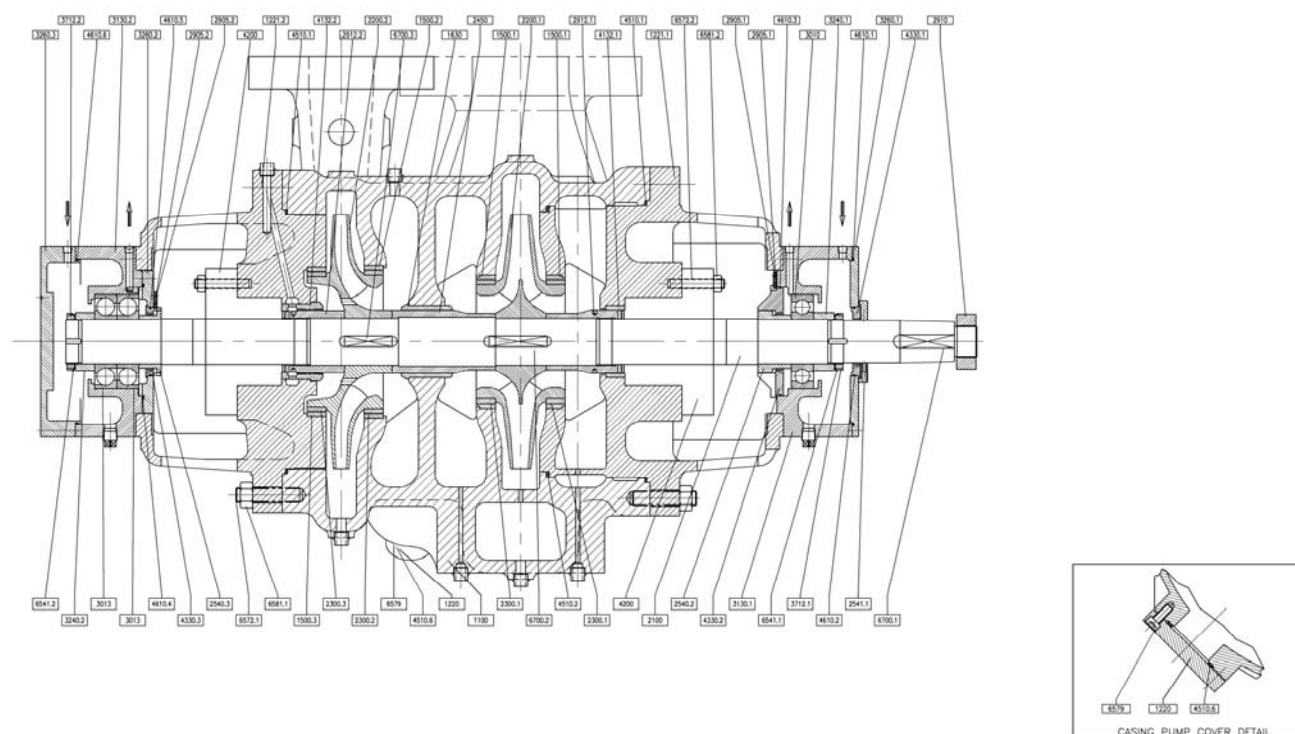
8.2.1 Parts list

Ref no	Description
2905.1	Washer
2541.1	Deflector
2540.3	Deflector
2540.2	Deflector
2450	Shaft Sleeve
2300.3	Impeller Wear Ring
2300.2	Impeller Wear Ring
2300.1	Impeller Wear Ring
2200.2	Impeller
2200.1	Impeller
2100	Shaft
1630	Throttling Bush
1500.3	Casing Wear Ring
1500.2	Casing Wear Ring
1500.1	Casing Wear Ring
1221.2	Casing Cover
1221.1	Casing Cover
1220	Cover
1100	Casing
6700.3	Key
6700.2	Key

Ref no	Description
3862.2	Lubricating Disk Thrower
3862.1	Lubricating Disk Thrower
3855.2	Constant Lever Oiler
3855.1	Constant Level Oiler
3854.2	Oil Filter Plug
3854.1	Oil Filter Plug
3712.2	Bearing Nut
3712.1	Bearing Nut
3260.3	Bearing Cover
3260.2	Bearing Cover
3260.1	Bearing Cover
3130.2	Bearing Bracket
3130.1	Bearing Bracket
3013	Thrust Ball Bearing
3010	Anti-Friction Bearing
2912.2	Impeller Nut
2912.1	Impeller Nut
2910	Shaft Nut
2905.2	Washer
6700.1	Key
6581.2	Hexagon Nut

Ref no	Description
6572.2	Stud
6572.1	Stud
6541.2	Lockwasher
6541.1	Lockwasher
4610.6	'O'-Ring
4610.5	'O'-Ring
4610.4	'O'-Ring
4610.3	'O'-Ring
4610.2	'O'-Ring
4610.1	'O'-Ring
4510.6	Gasket
4510.2	Gasket
4510.1	Gasket
4330.3	Labyrinth Ring
4330.2	Labyrinth Ring
4330.1	Labyrinth Ring
4200	Mechanical Seal
4132.2	Stuffing Box Bushing
4132.1	Stuffing Box Bushing
6581.1	Hexagon Nut
6579	Socket Head Screw

8.3 HED-DS Antifriction Bearing + Oil Mist Lubrication



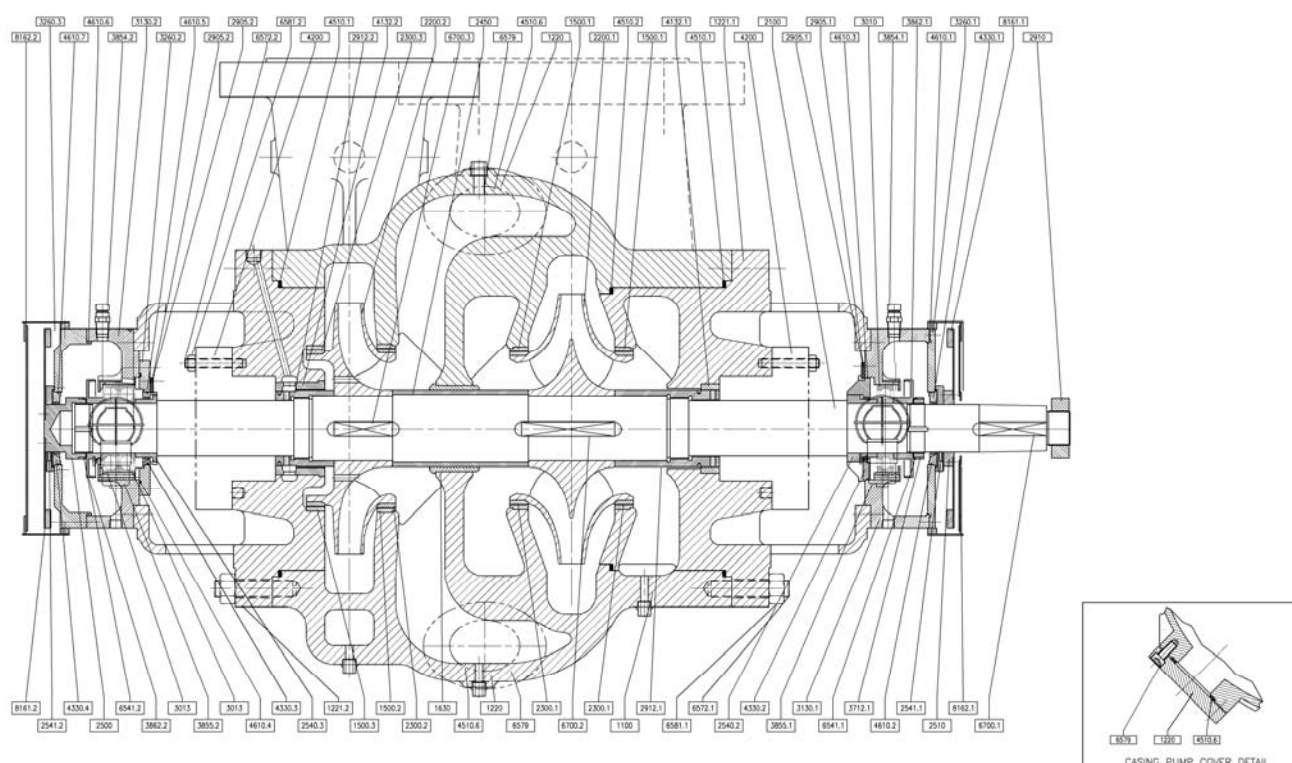
8.3.1 Parts list

Ref no	Description
2905.1	Washer
2541.1	Deflector
2540.3	Deflector
2540.2	Deflector
2450	Shaft Sleeve
2300.3	Impeller Wear Ring
2300.2	Impeller Wear Ring
2300.1	Impeller Wear Ring
2200.2	Impeller
2200.1	Impeller
2100	Shaft
1630	Throttling Bush
1500.3	Casing Wear Ring
1500.2	Casing Wear Ring
1500.1	Casing Wear Ring
1221.2	Casing Cover
1221.1	Casing Cover
1220	Cover
1100	Casing
6700.3	Key

Ref no	Description
4330.1	Labyrinth Ring
4200	Mechanical seal
4132.2	Stuffing Box Bushing
4132.1	Stuffing Box Bushing
3712.2	Bearing Nut
3712.1	Bearing Nut
3260.3	Bearing Cover
3260.2	Bearing Cover
3260.1	Bearing Cover
3240.2	Intermediate Bearing Sleeve
3240.1	Intermediate Bearing Sleeve
3130.2	Bearing Bracket
3130.1	Bearing Bracket
3013	Thrust Ball Bearing
3010	Anti-Friction Bearing
2912.2	Impeller Nut
2912.1	Impeller Nut
2910	Shaft Nut
2905.2	Washer
6700.2	KEY

Ref no	Description
6700.1	Key
6581.2	Hexagon Nut
6581.1	Hexagon Nut
6579	Socket head Cap Screw
6572.2	Stud
6572.1	Stud
6541.2	Lockwasher
6541.1	Lockwasher
4610.6	'O'-Ring
4610.5	'O'-Ring
4610.4	'O'-Ring
4610.3	'O'-Ring
4610.2	'O'-Ring
4610.1	'O'-Ring
4510.6	Gasket
4510.2	Gasket
4510.1	Gasket
4330.3	Labyrinth Ring
4330.2	Labyrinth Ring

8.4 HED-DS Antifriction Bearing + Slinger Lubrication + Fan Cooling



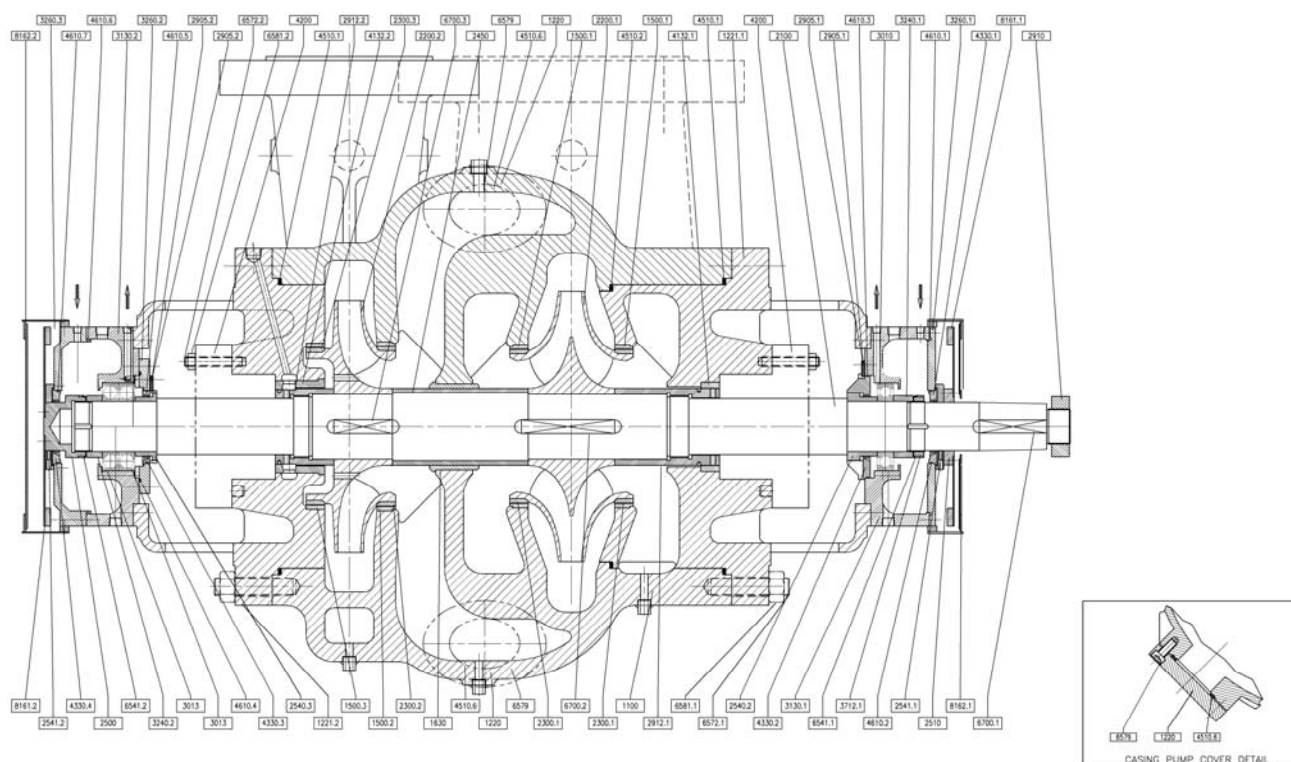
8.4.1 Parts list

Ref no	Description
2540.3	Deflector
2540.2	Deflector
2510	Spacer Ring
2500	Ring
2450	Shaft Sleeve
2300.3	Impeller Wear Ring
2300.2	Impeller Wear Ring
2300.1	Impeller Wear Ring
2200.2	Impeller
2200.1	Impeller
2100	Shaft
1630	Throttling Bush
1500.3	Casing Wear Ring
1500.2	Casing Wear Ring
1500.1	Casing Wear Ring
1221.2	Casing Cover
1221.1	Casing Cover
1220	Cover
1100	Casing
8162.2	Cover
8162.1	Cover
8161.2	Fan
8161.1	Fan
6541.2	Lockwasher

Ref no	Description
3855.2	Constant Level Oiler
3855.1	Constant Level Oiler
3854.2	Oil Filter plug
3854.1	Oil Filter plug
3712.1	Bearing Nut
3260.3	Bearing Cover
3260.2	Bearing Cover
3260.1	Bearing Cover
3130.2	Bearing Bracket
3130.1	Bearing Bracket
3013	Thrust Ball Bearing
3010	Anti-Friction Bearing
2912.2	Impeller Nut
2912.1	Impeller Nut
2910	Shaft Nut
2905.2	Washer
2905.1	Washer
2541.2	Deflector
2541.1	Deflector
6700.3	Key
6700.2	Key
6700.1	Key
6581.2	Hexagon Nut
6541.1	Lockwasher

Ref no	Description
4610.7	'O'-Ring
4610.6	'O'-Ring
4610.5	'O'-Ring
4610.4	'O'-Ring
4610.3	'O'-Ring
4610.2	'O'-Ring
4610.1	'O'-Ring
4510.6	Gasket
4510.2	Gasket
4510.1	Gasket
4330.4	Labyrinth Ring
4330.3	Labyrinth Ring
4330.2	Labyrinth Ring
4330.1	Labyrinth Ring
4200	Mechanical Seal
4132.2	Stuffing Box Bushing
4132.1	Stuffing Box Bushing
3862.2	Lubricating Disk Thrower
3862.1	Lubricating Disk Thrower
6581.1	Hexagon Nut
6579	Socket Head Cap Screw
6572.2	Stud
6572.1	Stud

8.5 HED-DS Antifriction Bearing + Oil Mist Lubrication + Fan Cooling



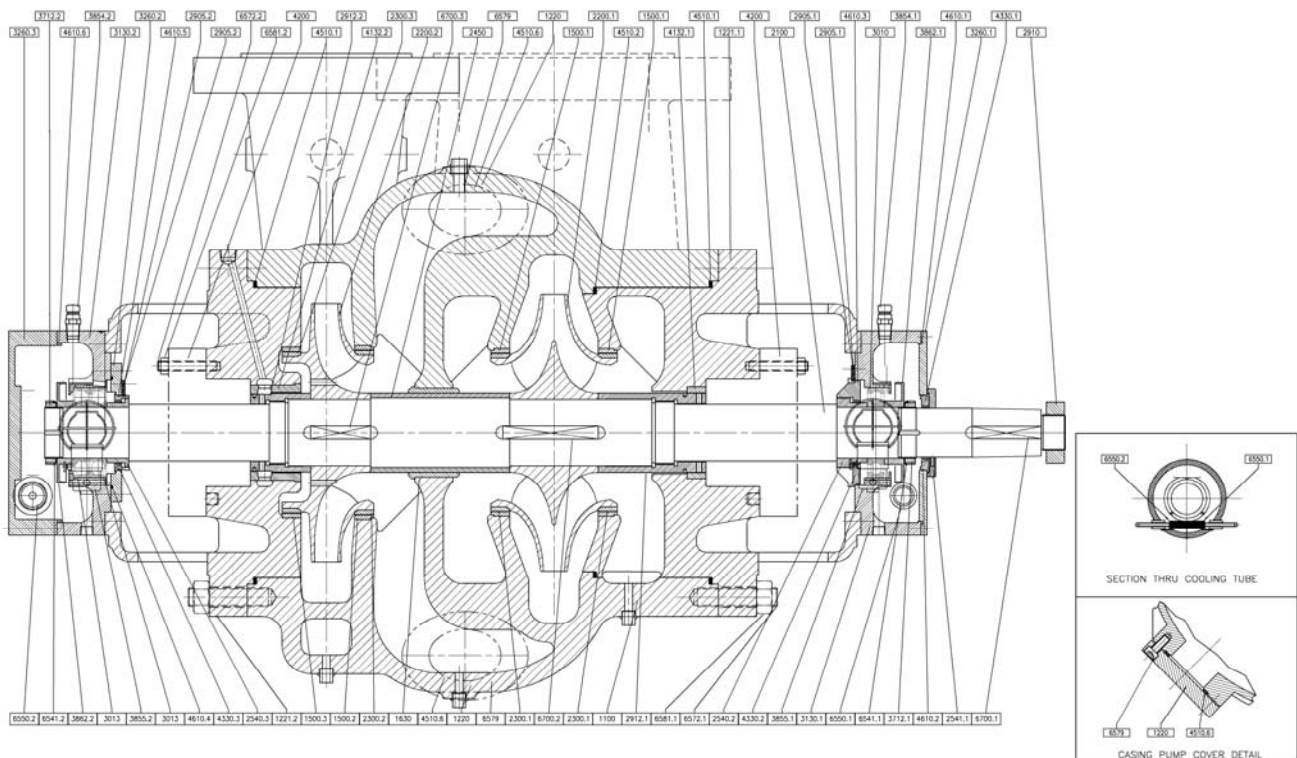
8.5.1 Parts list

Ref no	Description
2540.3	Deflector
2540.2	Deflector
2510	Spacer Ring
2500	Ring
2450	Shaft Sleeve
2300.3	Impeller Wear Ring
2300.2	Impeller Wear Ring
2300.1	Impeller Wear Ring
2200.2	Impeller
2200.1	Impeller
2100	Shaft
1630	Throttling Bush
1500.3	Casing Wear Ring
1500.2	Casing Wear Ring
1500.1	Casing Wear Ring
1221.2	Casing Cover
1221.1	Casing Cover
1220	Cover
1100	Casing
8162.2	Cover
8162.1	Cover
8161.2	Fan
6579	Socked Head Cap Screw

Ref no	Description
4132.2	Stuffing Box Bushing
4132.1	Stuffing Box Bushing
3712.1	Bearing Nut
3260.3	Bearing Cover
3260.2	Bearing Cover
3260.1	Bearing Cover
3240.2	Intermediate Bearing Sleeve
3240.1	Intermediate Bearing Sleeve
3130.2	Bearing Bracket
3130.1	Bearing Bracket
3013	Thrust Ball Bearing
3010	Anti-Friction Bearing
2912.2	Impeller Nut
2912.1	Impeller Nut
2910	Shaft nut
2905.2	Washer
2905.1	Washer
2541.2	Deflector
2541.1	Deflector
8161.1	Fan
6700.3	Key
6700.2	Key

Ref no	Description
6572.2	Stud
6572.1	Stud
6541.2	Lockwasher
6541.1	Lockwasher
4610.7	'O'-Ring
4610.6	'O'-Ring
4610.5	'O'-Ring
4610.4	'O'-Ring
4610.3	'O'-Ring
4610.2	'O'-Ring
4610.1	'O'-Ring
4510.6	Gasket
4510.2	Gasket
4510.1	Gasket
4330.4	Labyrinth Ring
4330.3	Labyrinth Ring
4330.2	Labyrinth Ring
4330.1	Labyrinth Ring
4200	Mechanical Seal
6700.1	Key
6581.2	Hexagon Nut
6581.1	Hexagon Nut

8.6 HED-DS Antifriction Bearing + Slinger Lubrication + Water Cooling



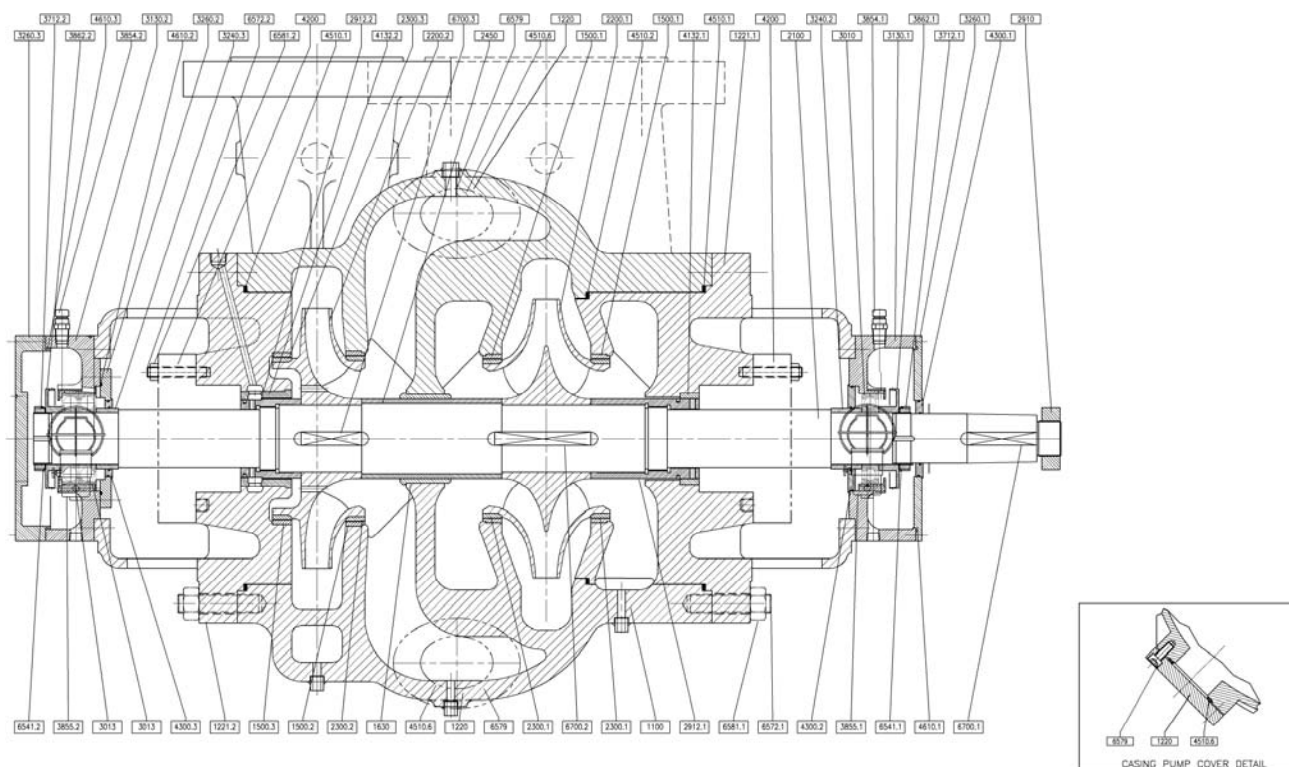
8.6.1 Parts list

Ref no	Description
2905.1	Washer
2541.1	Deflector
2540.3	Deflector
2540.2	Deflector
2540	Shaft Sleeve
2300.3	Impeller Wear Ring
2300.2	Impeller Wear Ring
2300.1	Impeller Wear Ring
2200.2	Impeller
2200.1	Impeller
2100	Shaft
1630	Throttling Bush
1500.3	Casing Wear Ring
1500.2	Casing Wear Ring
1500.1	Casing Wear Ring
1221.2	Casing Cover
1221.1	Casing Cover
1220	Cover
1100	Casing
6700.3	Key
6700.2	Key
6700.1	Key

Ref no	Description
3862.2	Lubricating Disk Thrower
3862.1	Lubricating Disk Thrower
3855.2	Constant Level Oiler
3855.1	Constant Level Oiler
3854.2	Oil Filter Plug
3854.1	Oil Filter Plug
3712.2	Bearing Nut
3712.1	Bearing Nut
3260.3	Bearing Cover
3260.2	Bearing Cover
3260.1	Bearing Cover
3130.2	Bearing Bracket
3130.1	Bearing Bracket
3013	Thrust Ball Bearing
3010	Anti-Friction Bearing
2912.2	Impeller Nut
2912.1	Impeller Nut
2910	Shaft Nut
2905.2	Washer
6581.2	Hexaxer Nut
6581.1	Hexagon Nut
6579	Socket Head Cap Screw

Ref no	Description
6550.2	Cooling Device
6550.1	Cooling Device
6541.2	Lockwasher
6541.1	Lockwasher
4610.6	'O'-Ring
4610.5	'O'-Ring
4610.4	'O'-Ring
4610.3	'O'-Ring
4610.2	'O'-Ring
4610.1	'O'-Ring
4510.6	Gasket
4510.2	Gasket
4510.1	Gasket
4330.3	Labyrinth Ring
4330.2	Labyrinth Ring
4330.1	Labyrinth Ring
4200	Mechanical Seal
4132.2	Stuffing Box Bushing
4132.1	Stuffing Box Bushing
6572.2	Stud
6572.1	Stud

8.7 HED-DS Antifriction Bearing + Slinger Lubrication + Inpro Seals



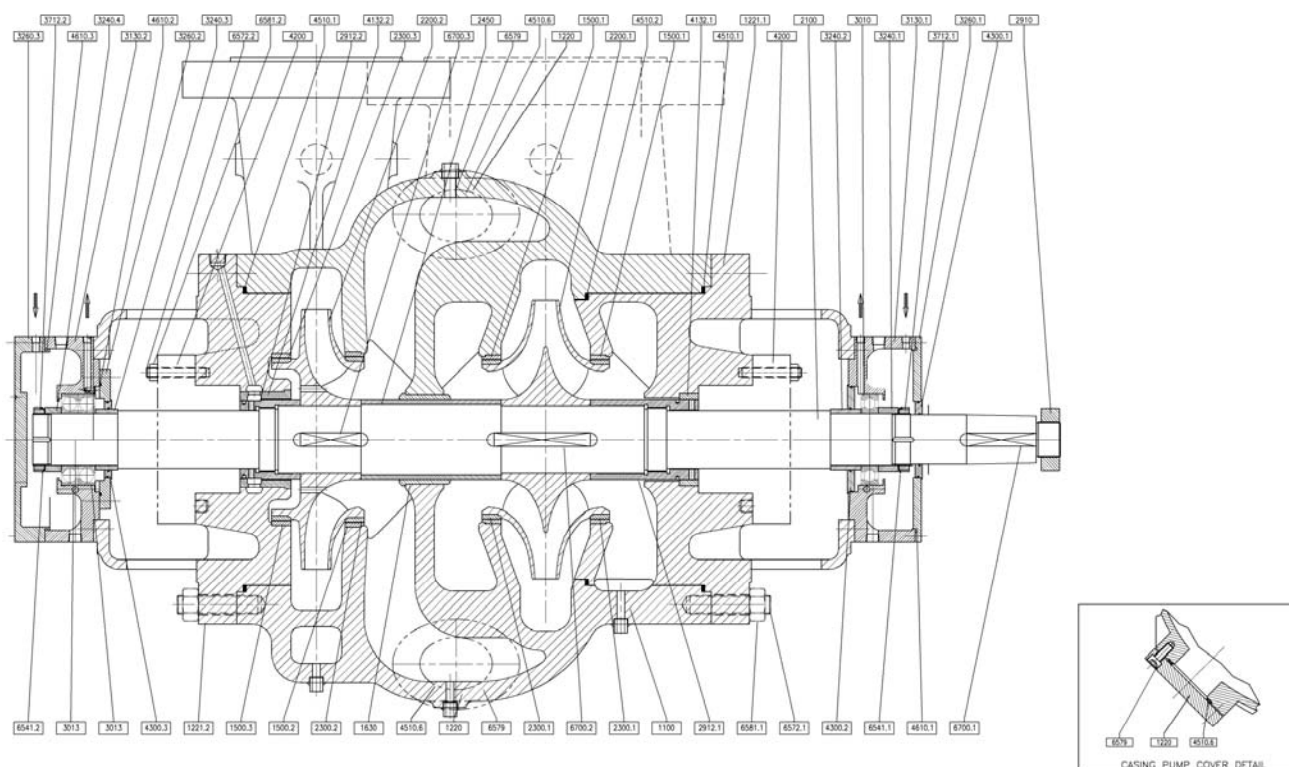
8.7.1 Parts list

Ref no	Description
3010	Anti-Friction Bearing
2912.2	Impeller Nut
2912.1	Impeller Nut
2910	Shaft Nut
2450	Shaft Sleeve
2300.3	Impeller Wear Ring
2300.2	Impeller Wear Ring
2300.1	Impeller Wear Ring
2200.2	Impeller
2200.1	Impeller
2100	Shaft
1630	Throttling Bush
1500.3	Casing Wear Ring
1500.2	Casing Wear Ring
1500.1	Casing Wear Ring
1221.2	Casing Cover
1221.1	Casing Cover
1220	Cover
1100	Casing

Ref no	Description
4200	Mechanical Seal
4132.2	Stuffing Box Bushing
4132.1	Stuffing Box Bushing
3862.2	Lubricating Disk Thrower
3862.1	Lubricating Disk Thrower
3855.2	Constant Level Oiler
3855.1	Constant Level Oiler
3854.2	Oil Filter Plug
3854.1	Oil Filter Plug
3712.2	Bearing Nut
3712.1	Bearing Nut
3260.3	Bearing Cover
3260.2	Bearing Cover
3260.1	Bearing Cover
3240.3	Intermediate Bearing Sleeve
3240.2	Intermediate Bearing Sleeve
3130.2	Bearing Bracket
3130.1	Bearing Bracket
3013	Thrust Ball Bearing

Ref no	Description
6700.3	Key
6700.2	Key
6700.1	Key
6581.2	Hexagon Nut
6581.1	Hexagon Nut
6579	Socket Head Cap Screw
6572.2	Stud
6572.1	Stud
6541.2	Lockwasher
6541.1	Lockwasher
4610.3	'O'-Ring
4610.2	'O'-Ring
4610.1	'O'-Ring
4510.6	Gasket
4510.2	Gasket
4510.1	Gasket
4300.3	Bearing Isolator
4300.2	Bearing Isolator
4300.1	Bearing Isolator

8.8 HED-DS Antifriction Bearing + Oil Mist Lubrication + Inpro Seals



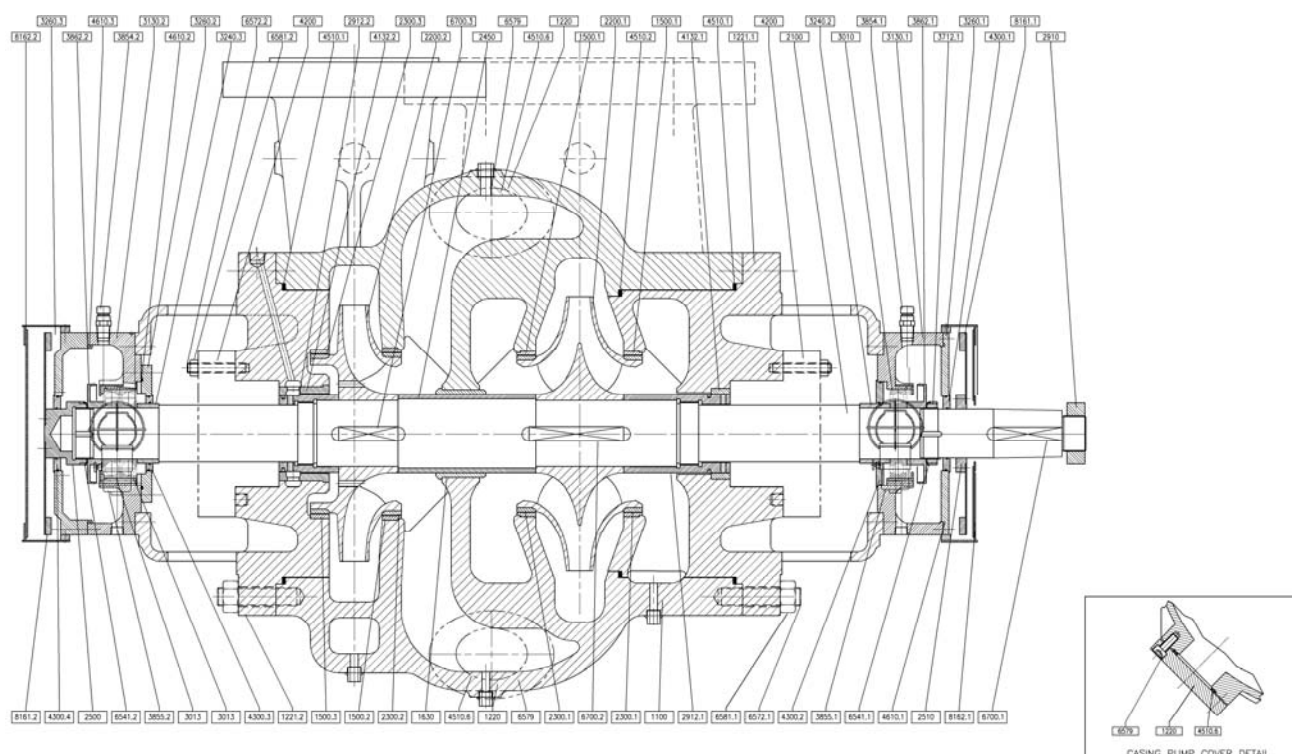
8.8.1 Parts list

Ref no	Description
3010	Anti-Friction Bearing
2912.2	Impeller Nut
2912.1	Impeller Nut
2910	Shaft Nut
2450	Shaft Sleeve
2300.3	Impeller Wear Ring
2300.2	Impeller Wear Ring
2300.1	Impeller Wear Ring
2200.2	Impeller
2200.1	Impeller
2100	Shaft
1630	Throttling Bush
1500.3	Casing Wear Ring
1500.2	Casing Wear Ring
1500.1	Casing Wear Ring
1221.2	Casing Cover
1221.1	Casing Cover
1220	Cover

Ref no	Description
4510.1	Gasket
4300.3	Bearing Isolator
4300.2	Bearing Isolator
4300.1	Bearing Isolator
4200	Mechanical Seal
4132.2	Stuffing Box Bushing
4132.1	Stuffing Box Bushing
3712.2	Bearing Nut
3712.1	Bearing Nut
3260.3	Bearing Cover
3260.2	Bearing Cover
3260.1	Bearing Cover
3240.4	Intermediate Bearing Sleeve
3240.3	Intermediate Bearing Sleeve
3240.2	Intermediate Bearing Sleeve
3240.1	Intermediate Bearing Sleeve
3130.2	Bearing Bracket
3130.1	Bearing Bracket

Ref no	Description
6700.3	Key
6700.2	Key
6700.1	Key
6581.2	Hexagon Nut
6581.1	Hexagon Nut
6579	Socket Head Cap Screw
6572.2	Stud
6572.1	Stud
6541.2	Lockwasher
6541.1	Lockwasher
4610.3	'O'-Ring
4610.2	'O'-Ring
4610.1	'O'-Ring
4510.6	Gasket
4510.2	Gasket
3013	Thrust Ball Bearing
1100	Casing

8.9 HED-DS Antifriction Bearing + Slinger Lubrication + Inpro Seals + Fan Cooling



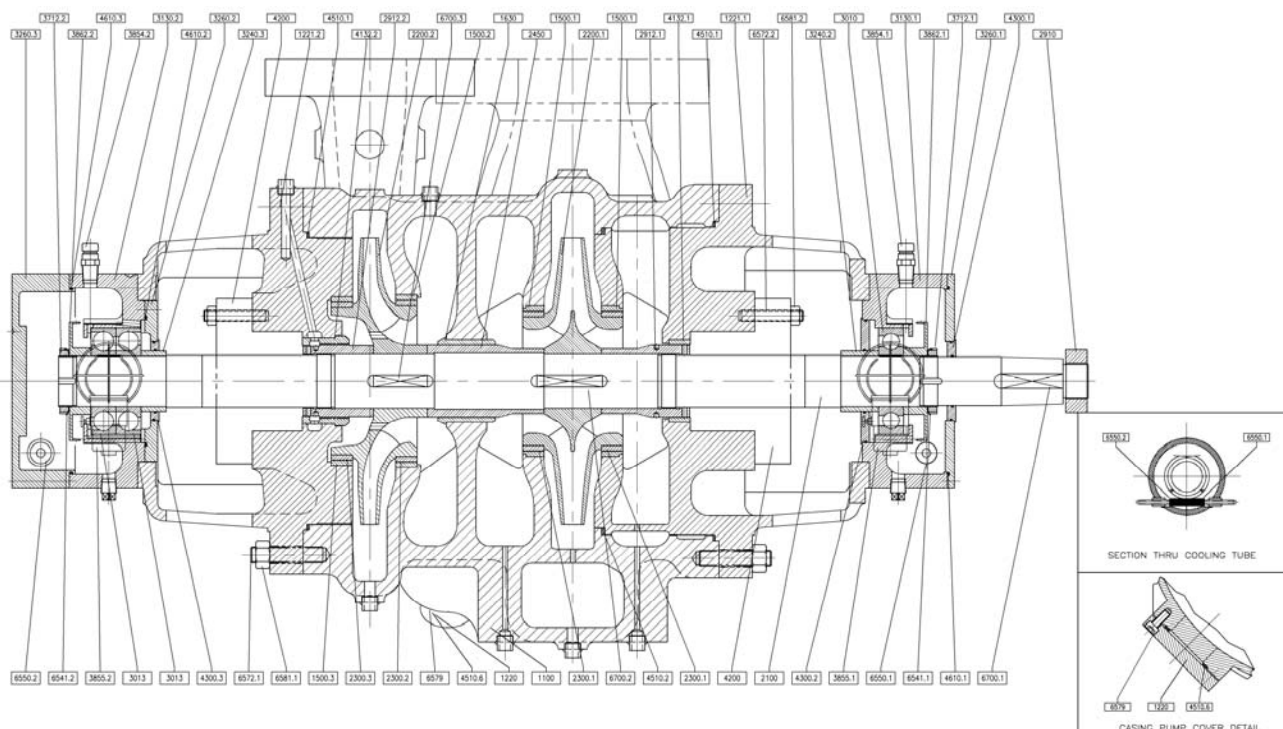
8.9.1 Parts list

Ref no	Description
2912.1	Impeller Nut
2910	Shaft Nut
2510	Spacer Ring
2500	Ring
2450	Shaft Sleeve
2300.3	Impeller Wear Ring
2300.2	Impeller Wear Ring
2300.1	Impeller Wear Ring
2200.2	Impeller
2200.1	Impeller
2100	Shaft
1630	Throttling Bush
1500.3	Casing Wear Ring
1500.2	Casing Wear Ring
1500.1	Casing Wear Ring
1221.2	Casing Cover
1221.1	Casing Cover
1220	Cover
1100	Casing
8162.2	Cover
8162.1	Cover

Ref no	Description
4132.2	Stuffing Box Bushing
4132.1	Stuffing Box Bushing
3862.2	Lubrication Disk Thrower
3862.1	Lubrication Disk Thrower
3855.2	Constant Level Oiler
3855.1	Constant Level Oiler
3854.2	Oil Filter Plug
3854.1	Oil Filter Plug
3712.1	Bearing Nut
3260.3	Bearing Cover
3260.2	Bearing Cover
3260.1	Bearing Cover
3240.3	Intermediate Bearing Sleeve
3240.2	Intermediate Bearing Sleeve
3130.2	Bearing Bracket
3130.1	Bearing Bracket
3013	Thrust Ball Bearing
3010	Anti-Friction Bearing
2912.2	Impeller Nut
8161.2	Fan
8161.1	Fan

Ref no	Description
6700.1	Key
6581.2	Hexagon Nut
6581.2	Hexagon Nut
6579	Socket Head Cap Screw
6572.2	Stud
6572.1	Stud
6541.2	Lockwasher
6541.1	Lockwasher
4610.3	'O'-Ring
4610.2	'O'-Ring
4610.1	'O'-Ring
4510.6	Gasket
4510.2	Gasket
4510.1	Gasket
4300.4	Bearing Isolator
4300.3	Bearing Isolator
4300.2	Bearing Isolator
4300.1	Bearing Isolator
4200	Mechanical Seal
6700.3	Key
6700.2	Key

8.10 HED-DS Antifriction Bearing + Slinger Lubrication + Inpro Seals + Water Cooling



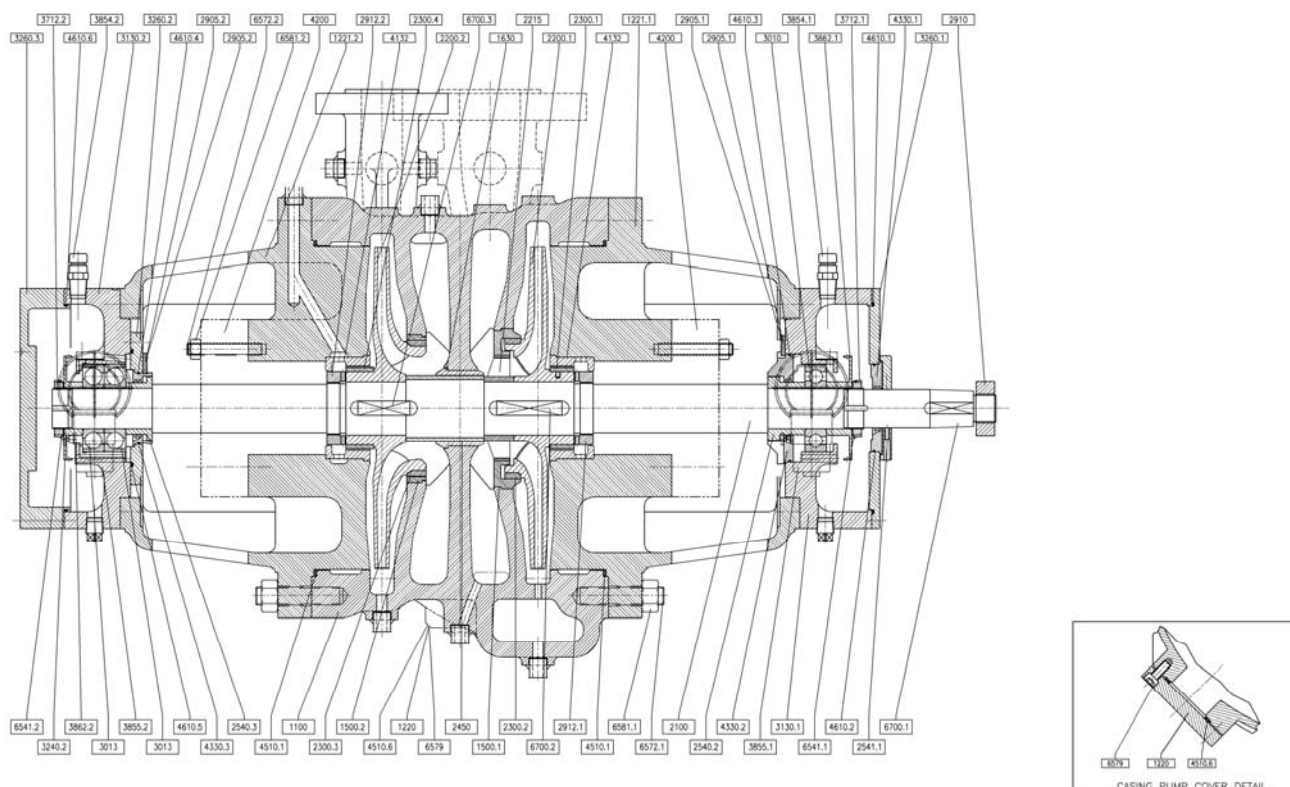
8.10.1 Parts list

Ref no	Description
3010	Anti-Friction Bearing
2912.2	Impeller Nut
2912.1	Impeller Nut
2910	Shaft Nut
2450	Shaft Sleeve
2300.3	Impeller Wear Ring
2300.2	Impeller Wear Ring
2300.1	Impeller Wear Ring
2200.2	Impeller
2200.1	Impeller
2100	Shaft
1630	Throttling Bush
1500.3	Casing Wear Ring
1500.2	Casing Wear Ring
1500.1	Casing Wear Ring
1221.2	Casing Cover
1221.1	Casing Cover
1220	Cover
1100	Casing
6700.3	Key

Ref no	Description
4200	Mechanical Seal
4132.2	Stuffing Box Bushing
4132.1	Stuffing Box Bushing
3862.2	Lubricating Disk Thrower
3862.1	Lubricating Disk Thrower
3855.2	Constant Level Oilier
3855.1	Constant Level Oilier
3854.2	Oil Filter Plug
3854.1	Oil Filter Plug
3712.2	Bearing Nut
3712.1	Bearing Nut
3260.3	Bearing Cover
3260.2	Bearing Cover
3260.1	Bearing Cover
3240.3	Intermediate Bearing Sleeve
3240.2	Intermediate Bearing Sleeve
3130.2	Bearing Bracket
3130.1	Bearing Bracket
3013	Thrust Ball Bearing
6700.2	Key

Ref no	Description
6700.1	Key
6581.2	Hexagon Nut
6581.1	Hexagon Nut
6579	Socket Head Cap Screw
6572.2	Stud
6572.1	Stud
6550.2	Cooling Device
6550.1	Cooling Device
6541.2	Lockwasher
6541.1	Lockwasher
4610.3	'O'-Ring
4610.2	'O'-Ring
4610.1	'O'-Ring
4510.6	Gasket
4510.2	Gasket
4510.1	Gasket
4300.3	Bearing Isolator
4300.2	Bearing Isolator
4300.1	Bearing Isolator

8.11 HED Antifriction Bearing + Coke Crusher



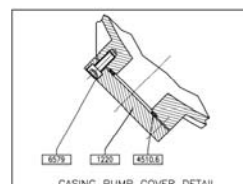
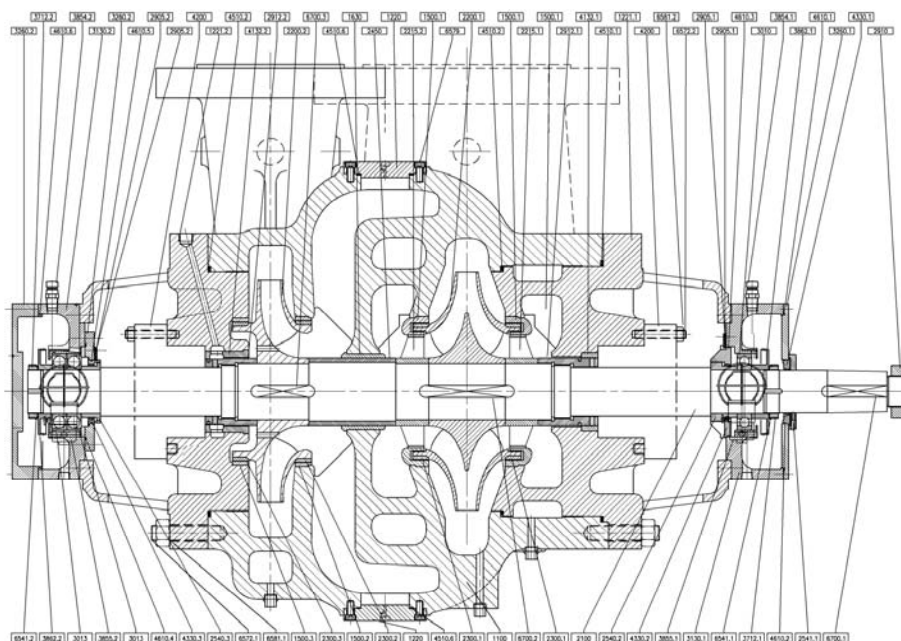
8.11.1 Parts list

Ref no	Description
2541.1	Deflector
2540.3	Deflector
2540.2	Deflector
2450	Shaft Sleeve
2300.4	Impeller Wear Ring
2300.3	Impeller Wear Ring
2300.2	Impeller Wear Ring
2300.1	Impeller Wear Ring
2215	Inducer
2200.2	Impeller
2200.1	Impeller
2100	Shaft
1630	Throttling Bush
1500.2	Casing Wear Ring
1500.1	Casing Wear Ring
1221.2	Casing Cover
1221.1	Casing Cover
1220	Cover
1100	Casing
6700.3	Key
6700.2	Key

Ref no	Description
3855.2	Constant Level Oiler
3855.1	Constant Level Oiler
3854.2	Oil Filter Plug
3854.1	Oil Filter Plug
3712.2	Bearing Nut
3712.1	Bearing Nut
3260.3	Bearing Cover
3260.2	Bearing Cover
3260.1	Bearing Cover
3240.2	Intermediate Bearing Sleeve
3130.2	Bearing Bracket
3130.1	Bearing Bracket
3013	Thrust Ball Bearing
3010	Anti-Friction Bearing
2912.2	Impeller Nut
2912.1	Impeller Nut
2910	Shaft Nut
2905.2	Washer
2905.1	Washer
6700.1	Key
6581.2	Hexagon Nut

Ref no	Description
6572.2	Stud
6572.1	Stud
6541.2	Lockwasher
6541.1	Lockwasher
4610.6	'O'-Ring
4610.5	'O'-Ring
4610.4	'O'-Ring
4610.3	'O'-Ring
4610.2	'O'-Ring
4610.1	'O'-Ring
4510.6	Gasket
4510.1	Gasket
4330.3	Labyrinth Ring
4330.2	Labyrinth Ring
4330.1	Labyrinth Ring
4200	Mechanical Seal
4132	Stuffing Box Bushing
3862.2	Lubricating Disk Thrower
3862.1	Lubricating Disk Thrower
6581.1	Hexagon Nut
6579	Socket Head Cap Screw

8.12 HED-DS Antifriction Bearing + Coke Crusher



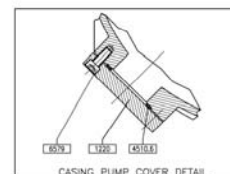
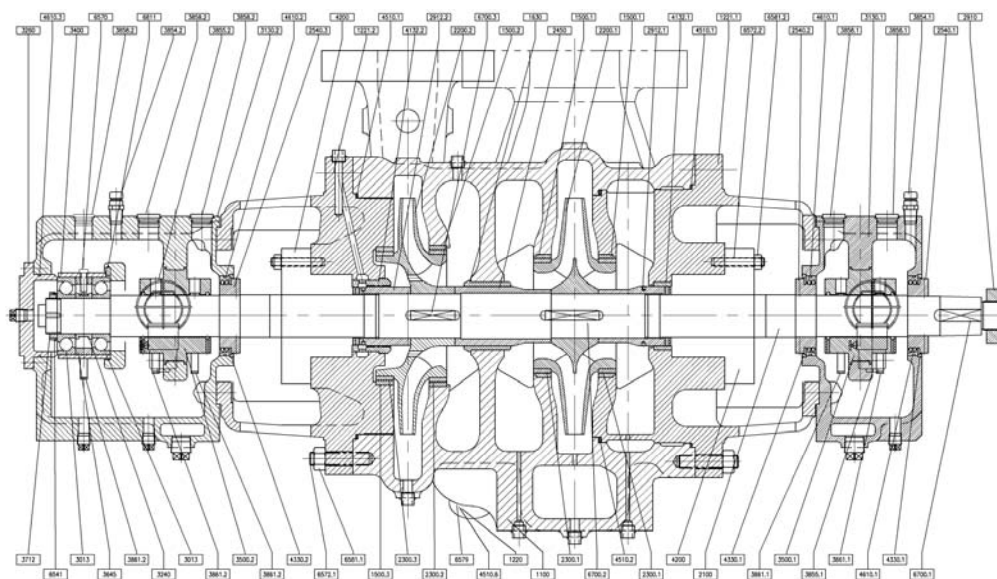
8.12.1 Parts list

Ref no	Description
2540.3	Deflector
2540.2	Deflector
2450	Shaft Sleeve
2300.3	Impeller Wear Ring
2300.2	Impeller Wear Ring
2300.1	Impeller Wear Ring
2215.2	Inducer
2215.1	Inducer
2200.2	Impeller
2200.1	Impeller
2100	Shaft
1630	Throttling Bush
1500.3	Casing Wear Ring
1500.2	Casing Wear Ring
1500.1	Casing Wear Ring
1221.2	Casing Cover
1221.1	Casing Cover
1220	Cover
1100	Casing
6700.3	Key
6700.2	Key
6572.2	Stud

Ref no	Description
3862.1	Lubricating Disk Thrower
3855.2	Constant Level Oiler
3855.1	Constant Level Oiler
3854.2	Oil Filter Plug
3854.1	Oil Filter Plug
3712.2	Bearing Nut
3712.1	Bearing Nut
3260.2	Bearing Cover
3260.1	Bearing Cover
3130.2	Bearing Bracket
3130.1	Bearing Bracket
3013	Thrust Ball Bearing
3010	Anti-Friction Bearing
2912.2	Impeller Nut
2912.1	Impeller Nut
2910	Shaft Nut
2905.2	Washer
2905.1	Washer
2541.1	Deflector
6700.1	Key
6581.2	Hexagon Nut

Ref no	Description
6572.1	Stud
6541.2	Lockwasher
6541.1	Lockwasher
4610.6	'O'-Ring
4610.5	'O'-Ring
4610.4	'O'-Ring
4610.3	'O'-Ring
4610.2	'O'-Ring
4610.1	'O'-Ring
4510.6	Gasket
4510.2	Gasket
4510.1	Gasket
4330.3	Labyrinth Ring
4330.2	Labyrinth Ring
4330.1	Labyrinth Ring
4200	Mechanical Seal
4132.2	Stuffing Box Bushing
4132.1	Stuffing Box Bushing
3862.2	Lubricating Disk Thrower
6581.1	Hexagon Nut
6579	Socket Head Cap Screw

8.13 HED-DS Sleeve Ball Bearing + Oil Ring Lubrication



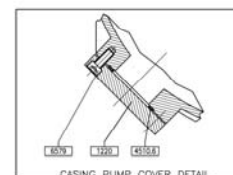
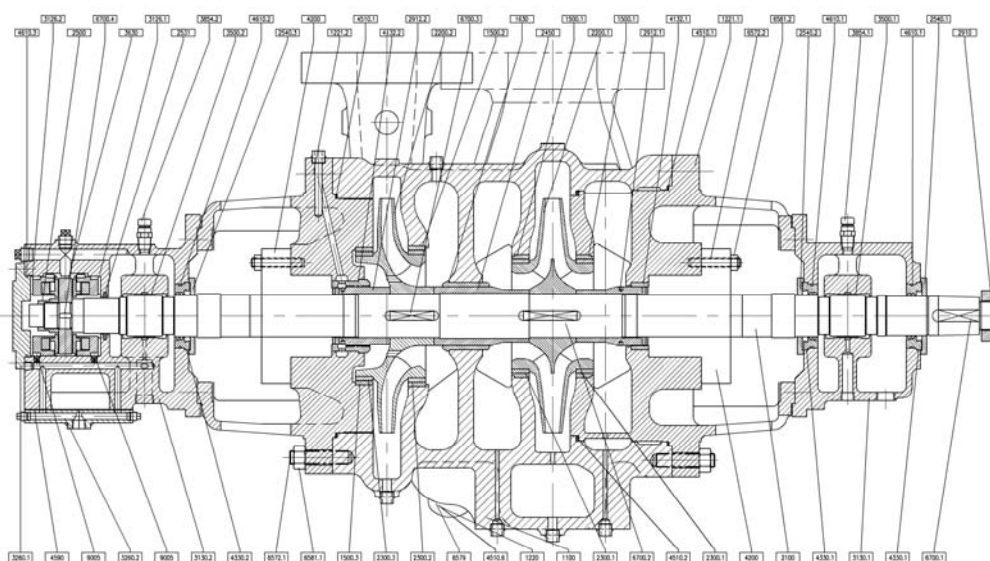
8.13.1 Parts list

Ref no	Description
2910	Shaft Nut
2540.3	Deflector
2540.2	Deflector
2540.1	Deflector
2450	Shaft Sleeve
2300.3	Impeller Wear Ring
2300.2	Impeller Wear Ring
2300.1	Impeller Wear Ring
2200.2	Impeller
2200.1	Impeller
2100	Shaft
1630	Throttling Bush
1500.3	Casing Wear Ring
1500.2	Casing Wear Ring
1500.1	Casing Wear Ring
1221.2	Casing Cover
1221.1	Casing Cover
1220	Cover
1100	Casing
6811	Cylindrical Pin
6700.3	Key

Ref no	Description
3861.1	Oil Ring
3858.2	Oil Level Sight Glass
3858.1	Oil Level Sight Glass
3855.2	Constant Level Oiler
3855.1	Constant Level Oiler
3854.2	Oil Filter Plug
3854.1	Oil Filter Plug
3712	Bearing Nut
3645	Disk Spacer
3500.2	Bearing Shell
3500.1	Bearing Shell
3400	Bearing Sleeve
3260	Bearing Cover
3240	Intermediate Bearing Sleeve
3130.2	Bearing Bracket
3130.1	Bearing Bracket
3013	Thrust Ball Bearing
2912.2	Impeller Nut
2912.1	Impeller Nut
6700.2	Key
6700.1	Key

Ref no	Description
6581.2	Hexagon Nut
6581.1	Hexagon Nut
6579	Socket head Cap Screw
6572.2	Stud
6572.1	Stud
6570	Screw
6541	Lockwasher
4610.3	'O'-Ring
4610.2	'O'-Ring
4610.1	'O'-Ring
4510.6	Gasket
4510.2	Gasket
4510.1	Gasket
4330.2	Labyrinth Ring
4330.1	Labyrinth Ring
4200	Mechanical Seal
4132.2	Stuffing Box Bushing
4132.1	Stuffing Box Bushing
3861.2	Oil Ring

8.14 HED-DS Sleeve KTB Bearing + Forced Feed Lubrication



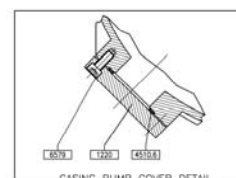
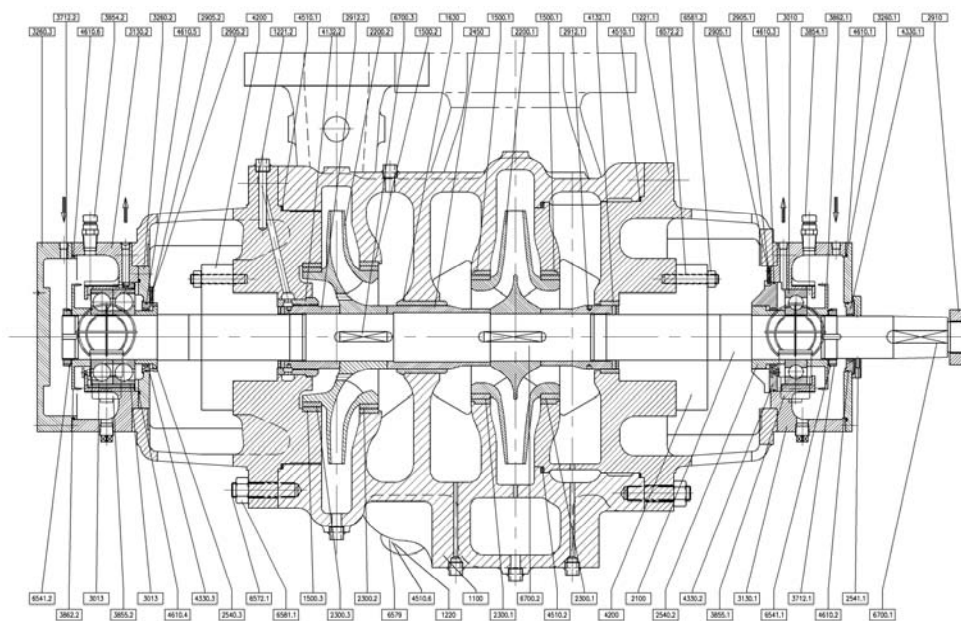
8.14.1 Parts list

Ref no	Description
2540.2	Deflector
2540.1	Deflector
2531	Split Retaining Ring
2500	Ring
2450	Shaft Sleeve
2300.3	Impeller Wear Ring
2300.2	Impeller Wear Ring
2300.1	Impeller Wear Ring
2200.2	Impeller
2200.1	Impeller
2100	Shaft
1630	Throttling Bush
1500.3	Casing Wear Ring
1500.2	Casing Wear Ring
1500.1	Casing Wear Ring
1221.2	Casing Cover
1221.1	Casing Cover
1220	Cover
1100	Casing

Ref no	Description
4330.1	Labyrinth Ring
4200	Mechanical Seal
4132.2	Stuffing Box Bushing
4132.1	Stuffing Box Bushing
3854.2	Oil Filter Plug
3854.1	Oil Filter Plug
3630	Thrust Bearing Pad
3500.2	Bearing Shell
3500.1	Bearing Shell
3260.2	Bearing Cover
3260.1	Bearing Cover
3130.2	Bearing Bracket
3130.1	Bearing Bracket
3126.2	Shim
3126.1	Shim
2912.2	Impeller Nut
2912.1	Impeller Nut
2910	Shaft Nut
2540.3	Deflector

Ref no	Description
9005	Orifice
6700.4	Key
6700.3	Key
6700.2	Key
6700.1	Key
6581.2	Hexagon Nut
6581.1	Hexagon Nut
6579	Socket Head Cap Screw
6572.2	Stud
6572.1	Stud
4610.3	'O'-Ring
4610.2	'O'-Ring
4610.1	'O'-Ring
4590	Gasket
4510.6	Gasket
4510.2	Gasket
4510.1	Gasket
4330.2	Labyrinth Ring

8.15 HED-DS Antifriction Bearing + Purge Oil Mist



8.15.1 Parts list

Ref no	Description
2905.1	Washer
2541.1	Deflector
2540.3	Deflector
2540.2	Deflector
2450	Shaft Sleeve
2300.3	Impeller Wear Ring
2300.2	Impeller Wear Ring
2300.1	Impeller Wear Ring
2200.2	Impeller
2200.1	Impeller
2100	Shaft
1630	Throttling Bush
1500.3	Casing Wear Ring
1500.2	Casing Wear Ring
1500.1	Casing Wear Ring
1221.2	Casing Cover
1221.1	Casing Cover
1220	Cover
1100	Casing
6700.3	Key
6700.2	Key

Ref no	Description
3862.2	Lubricating Disk Thrower
3862.1	Lubricating Disk Thrower
3855.2	Constant Level Oiler
3855.1	Constant Level Oiler
3854.2	Oil Filter Plug
3854.1	Oil Filter Plug
3712.2	Bearing Nut
3712.1	Bearing Nut
3260.3	Bearing Cover
3260.2	Bearing Cover
3260.1	Bearing Cover
3130.2	Bearing Bracket
3130.1	Bearing Bracket
3013	Thrust Ball Bearing
3010	Anti Friction Bearing
2912.2	Impeller Nut
2912.1	Impeller Nut
2910	Shaft Nut
2905.2	Washer
6700.1	Key
6581.2	Hexagon Nut

Ref no	Description
6572.2	Stud
6572.1	Stud
6541.2	Lockwasher
6541.1	Lockwasher
4610.6	'O'-Ring
4610.5	'O'-Ring
4610.4	'O'-Ring
4610.3	'O'-Ring
4610.2	'O'-Ring
4610.1	'O'-Ring
4510.6	Gasket
4510.2	Gasket
4510.1	Gasket
4330.3	Labyrinth Ring
4330.2	Labyrinth Ring
4330.1	Labyrinth Ring
4200	Mechanical Seal
4132.2	Stuffing Box Bushing
4132.1	Stuffing Box Bushing
6581.1	Hexagon Nut
6579	Socket Head Screw