



High Pressure Pump Manual



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FAB Series

BRASS PUMP



Soild Shaft Ø24mm

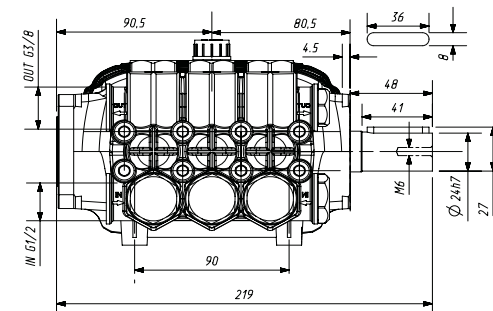
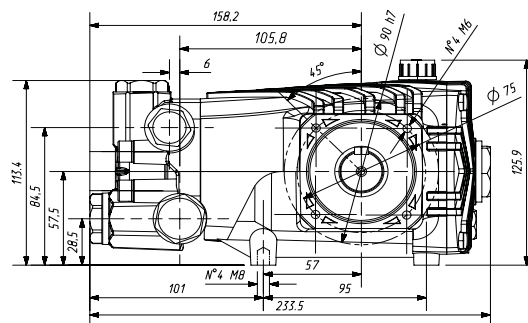
SPECIFICATIONS

Pump Model	FAB 1017	FAB 1312	FAB 1520	FAB 1525	FAB 1820	FAB 1217	FAB 1512	FAB 1825	FAB 2120
Flow Rate (L/min)	10	13	15	15	18	12.1	15.7	18.1	21.7
Pressure (bar)	170	120	200	250	200	170	120	250	200
Power (kw)	3.4	3.1	6	7.5	7.2	4.1	3.8	9.1	8.7
RPM	1450	1450	1450	1450	1450	1750	1750	1750	1750
Shaft Diameter (mm)	24								
Plunger Stroke (mm)	9.5	12	14	14.2	17	9.5	12	14	17
Plunger Diameter (mm)	18								
Oil Capacity (ml)	450								
Inlet Thread	G 1/2								
Outlet Thread	G 3/8								
Weight (kg)	7.5								
Dimensions (mm)	234x219x126								

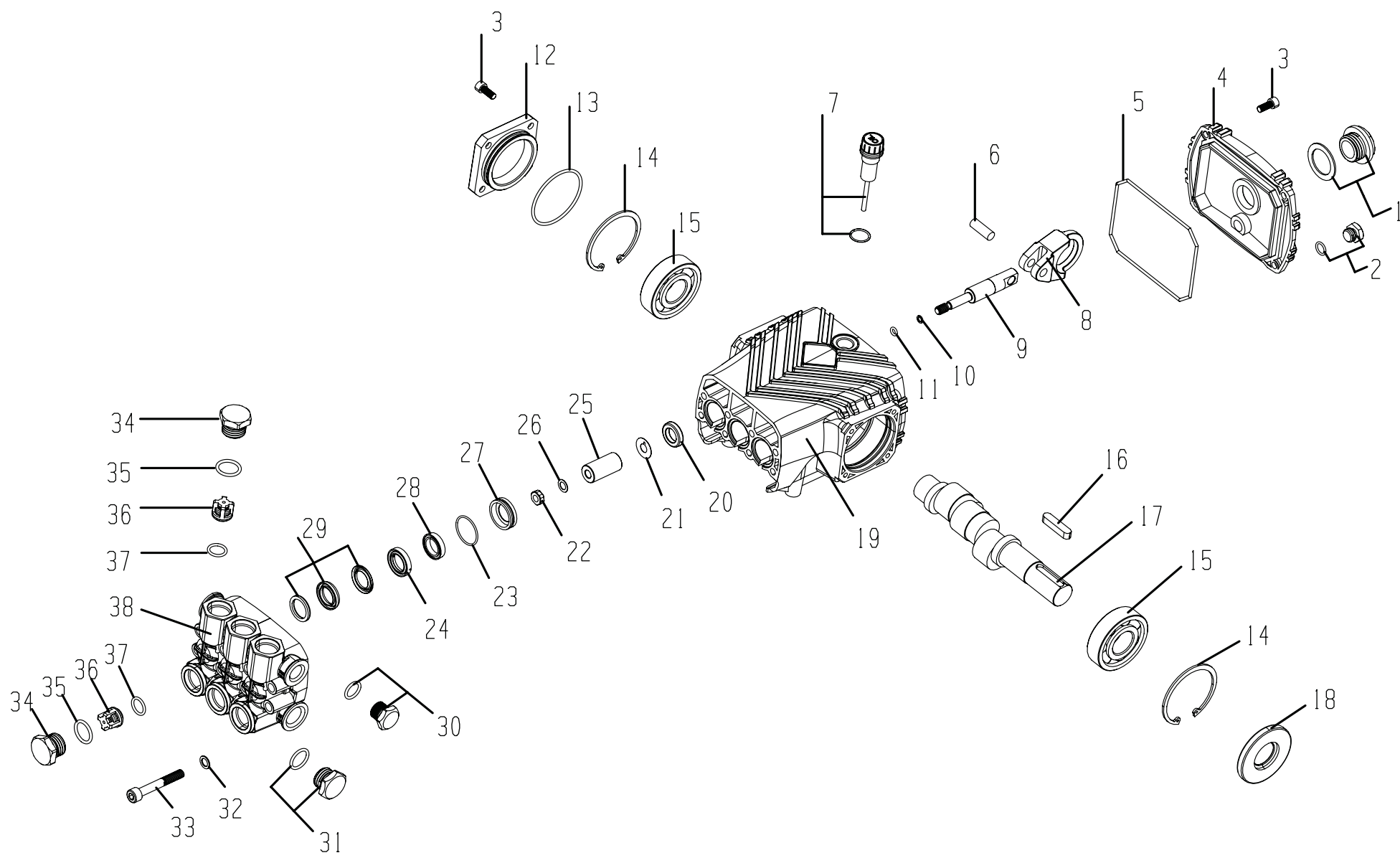
FEATURES

- Brass pump head provides structural strength and rust resistance.
- Low-friction alloy connecting rod supports high load capacity and reduced wear.
- Ceramic plungers with smooth surface finish for long service life.
- Check valve components made from selected materials for durability and convenient replacement.
- Large-capacity bearings with precision-machined bearing housings and snap-ring retention improve concentricity and operating efficiency.

DIMENSIONS (mm)



EXPLODED VIEW



COMPONENTS

ITEM	PART NO.	Name	QTY	ITEM	PART NO.	Name	QTY	ITEM	PART NO.	Name	QTY
1	7.906-160	Oil Slight Glass	1	14	7.906-043	Snap Ring	2	27	7.906-040.4	Guide Seat	3
2	7.400-001	Hexagon Nut	1	15	7.906-014.2	Bearing	2	28	7.906-007.7	Low Pressure Water Seal	3
3	7.301-001	Hexagon Socket Bolt	8	16	7.906-035.1	Parallel Key	1	29	7.906-007.6	High Pressure Water Seal	3
4	7.906-011.2	Crankcase Rear Cover	1	17	7.906-025.4	Crankshaft	1	30	7.400-011	Stainless Steel Plug	1
5	7.906-005.9	Rear Cover O-Ring	1	18	7.906-355	Shaft Oil Seal	1	31	7.400-001.2	Stainless Steel Plug	1
6	7.906-033.2	Plunger Pin	3	19	7.906-011.2	Crankcase	1	32	7.906-022	Double-Sided Toothed Washer	8
7	7.906-034	Dipstick	1	20	7.906-006.2	Crankcase Oil Seal	3	33	7.301-002	Hexagon Socket Bolt	8
8	7.906-001.3	Connecting Rod	3	21	7.906-131	Water Seal Washer	3	34	7.301-003	Check Valve Nut	6
9	7.906-002.2	Plunger Rod	3	22	7.906-002.2	Plunger Rod Nut	3	35	7.906-005.11	Check Valve Nut O-Ring	6
10	7.906-008.4	45° Split Washer	3	23	7.906-005.10	Guide Seat Seal Ring	3	36	7.906-013.2	Check Valve	6
11	7.906-019	O-Ring	3	24	7.906-041.3	Copper Pressure Ring	3	37	7.906-019.1	Check Valve O-Ring	6
12	7.906-011.2	Side Cover	1	25	7.906-003.6	Ceramic Plunger	3	38	7.906-017.2	Brass Pump Head	1
13	7.906-005.8	Side Cover O-Ring	1	26	7.906-012.3	Copper Washer	3				

REPAIR KITS

Water Seal Kit		
Index	28	29
Part Number	7.906-007.7	7.906-007.6
Name	Low Pressure Water Seal	High Pressure Water Seal
Quantity	3	3

Oil Seal Kit		
Index	18	20
Part Number	7.906-355	7.906-006.2
Name	Shaft Oil Seal	Crankcase Oil Seal
Quantity	1	3

Valve Kit			
Index	35	36	37
Part Number	7.906-005.11	7.906-013.2	7.906-019.1
Name	Check Valve Nut O-Ring	Check Valve	Check Valve O-Ring
Quantity	6	6	6

Plunger Kit				
Index	10	11	25	26
Part Number	7.906-008.4	7.906-019	7.906-003.6	7.906-012.3
Name	45° Split Washer	O-Ring	Ceramic Plunger	Copper Washer
Quantity	3	3	3	3

FABH Series

BRASS PUMP



Hollow Shaft Ø28mm

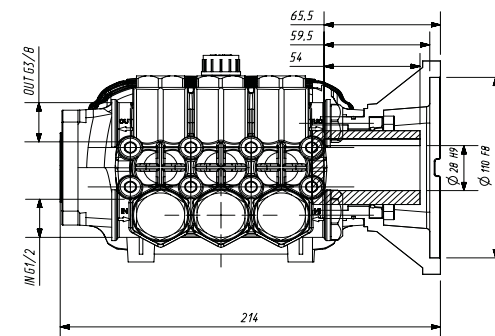
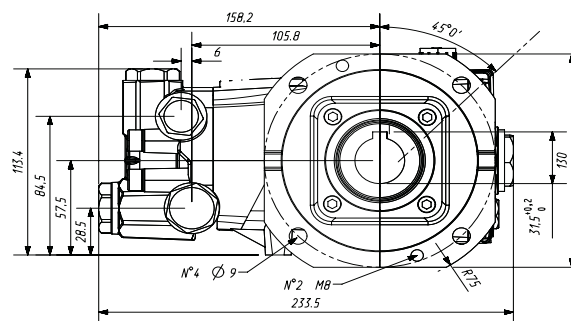
FEATURES

- Brass pump head provides structural strength and rust resistance.
- Low-friction alloy connecting rod supports high load capacity and reduced wear.
- Ceramic plungers with smooth surface finish for long service life.
- Check valve components made from selected materials for durability and convenient replacement.
- Large-capacity bearings with precision-machined bearing housings and snap-ring retention improve concentricity and operating efficiency.

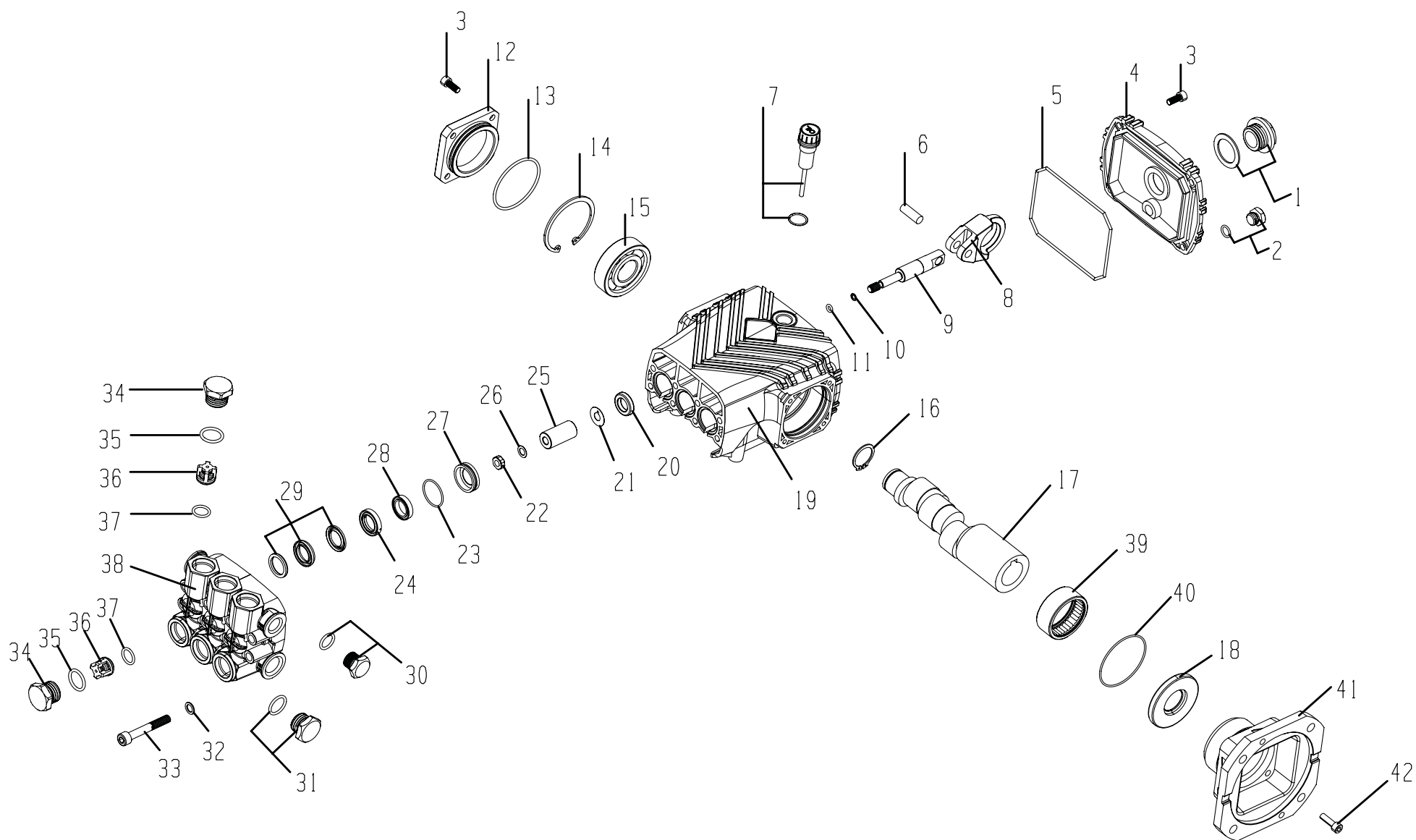
SPECIFICATIONS

Pump Model	FABH 1017	FABH 1312	FABH 1520	FABH 1525	FABH 1820	FABH 1217	FABH 1512	FABH 1825	FABH 2120
Flow Rate (L/min)	10	13	15	15	18	12.1	15.7	18.1	21.7
Pressure (bar)	170	120	200	250	200	170	120	250	200
Power (kw)	3.4	3.1	6	7.5	7.2	4.1	3.8	9.1	8.7
RPM	1450	1450	1450	1450	1450	1750	1750	1750	1750
Shaft Diameter (mm)	28	28	28	28	28	28	28	24	24
Plunger Stroke (mm)	9.5	12	14	14.2	17	9.5	12	14	17
Plunger Diameter (mm)	18								
Oil Capacity (ml)	450								
Inlet Thread	G 1/2								
Outlet Thread	G 3/8								
Weight (kg)	8	8	8	8	8	8	8	7.2	7.2
Dimensions (mm)	234x214x130								

DIMENSIONS (mm)



EXPLODED VIEW



COMPONENTS

ITEM	PART NO.	Name	QTY	ITEM	PART NO.	Name	QTY	ITEM	PART NO.	Name	QTY
1	7.906-160	Oil Slight Glass	1	15	7.906-014.2	Bearing	1	29	7.906-007.6	High Pressure Water Seal	3
2	7.400-001	Hexagonal Nut	1	16	7.906-043.3	Shaft Retaining Ring	1	30	7.400-011	Plug	1
3	7.301-001	Hexagon Socket Bolt	8	17	7.906-025.6	Crankshaft	1	31	7.400-001.2	Plug	1
4	7.906-011.2	Crankcase Rear Cover	1	18	7.999-086	Shaft Oil Seal	1	32	7.906-022	Double-Serrated Washer	8
5	7.906-005.9	Rear Cover O-Ring	1	19	7.906-011.2	Crankcase	1	33	7.301-002	Hexagon Socket Screws	8
6	7.906-033.2	Plunger Pin	3	20	7.906-006.2	Crankcase Oil Seal	3	34	7.301-003	Check Valve Nut	6
7	7.906-034	Dipstick	1	21	7.906-131	Water Seal Washer	3	35	7.906-005.11	Check Valve Nut O-Ring	6
8	7.906-001.3	Connecting Rod	3	22	7.906-002.2	Plunger Rod Nut	3	36	7.906-013.2	Check Valve	6
9	7.906-002.2	Plunger Rod	3	23	7.906-005.10	Guide Seat Seal Ring	3	37	7.906-019.1	Check Valve O-Ring	6
10	7.906-008.4	45° Split Washer	3	24	7.906-041.3	Copper Retaining Ring	3	38	7.906-017.2	Brass Pump Head	1
11	7.906-019	O-Ring	3	25	7.906-003.6	Ceramic Plunger	3	39	7.999-086	Flange Bearing	1
12	7.906-011.2	Side Cover	1	26	7.906-012.3	Copper Washer	3	40	7.999-086	Flange O-Ring	1
13	7.906-005.8	Side Cover O-Ring	1	27	7.906-040.4	Guide Seat	3	41	7.999-086	Flange	1
14	7.906-043	Snap Ring	1	28	7.906-007.7	Low Pressure Water Seal	3	42	7.301-007	Hexagon Socket Bolt	4

REPAIR KITS

Water Seal Kit		
Index	28	29
Part Number	7.906-007.7	7.906-007.6
Name	Low Pressure Water Seal	High Pressure Water Seal
Quantity	3	3

Oil Seal Kit		
Index	18	20
Part Number	7.999-086	7.906-006.2
Name	Shaft Oil Seal	Crankcase Oil Seal
Quantity	1	3

Valve Kit			
Index	35	36	37
Part Number	7.906-005.11	7.906-013.2	7.906-019.1
Name	Check Valve Nut O-Ring	Check Valve	Check Valve O-Ring
Quantity	6	6	6

Plunger Kit				
Index	10	11	25	26
Part Number	7.906-008.4	7.906-019	7.906-003.6	7.906-012.3
Name	45° Split Washer	O-Ring	Ceramic Plunger	Copper Washer
Quantity	3	3	3	3

FAN Series

NICKEL PLATED BRASS PUMP



Soloid Shaft Ø24mm

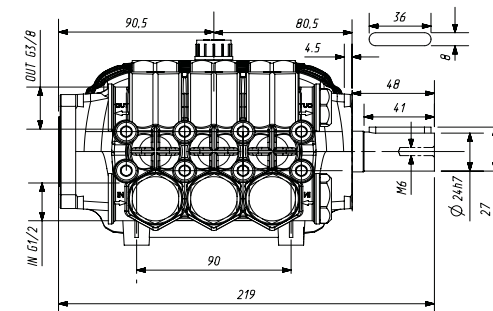
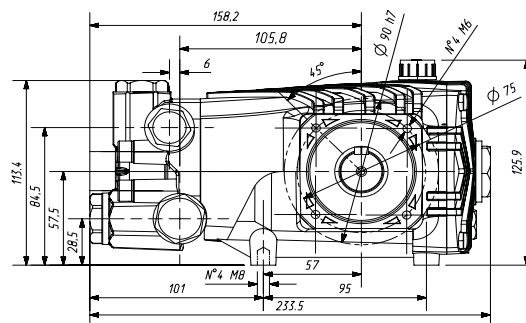
SPECIFICATIONS

Pump Model	FAN 1017	FAN 1312	FAN 1520	FAN 1525	FAN 1820	FAN 1217	FAN 1512	FAN 1825	FAN 2120
Flow Rate (L/min)	10	13	15	15	18	12.1	15.7	18.1	21.7
Pressure (bar)	170	120	200	250	200	170	120	250	200
Power (kw)	3.4	3.1	6	7.5	7.2	4.1	3.8	9.1	8.7
RPM	1450	1450	1450	1450	1450	1750	1750	1750	1750
Shaft Diameter (mm)	24								
Plunger Stroke (mm)	9.5	12	14	14.2	17	9.5	12	14	17
Plunger Diameter (mm)	18								
Oil Capacity (ml)	450								
Inlet Thread	G 1/2								
Outlet Thread	G 3/8								
Weight (kg)	7.2								
Dimensions (mm)	234x219x126								

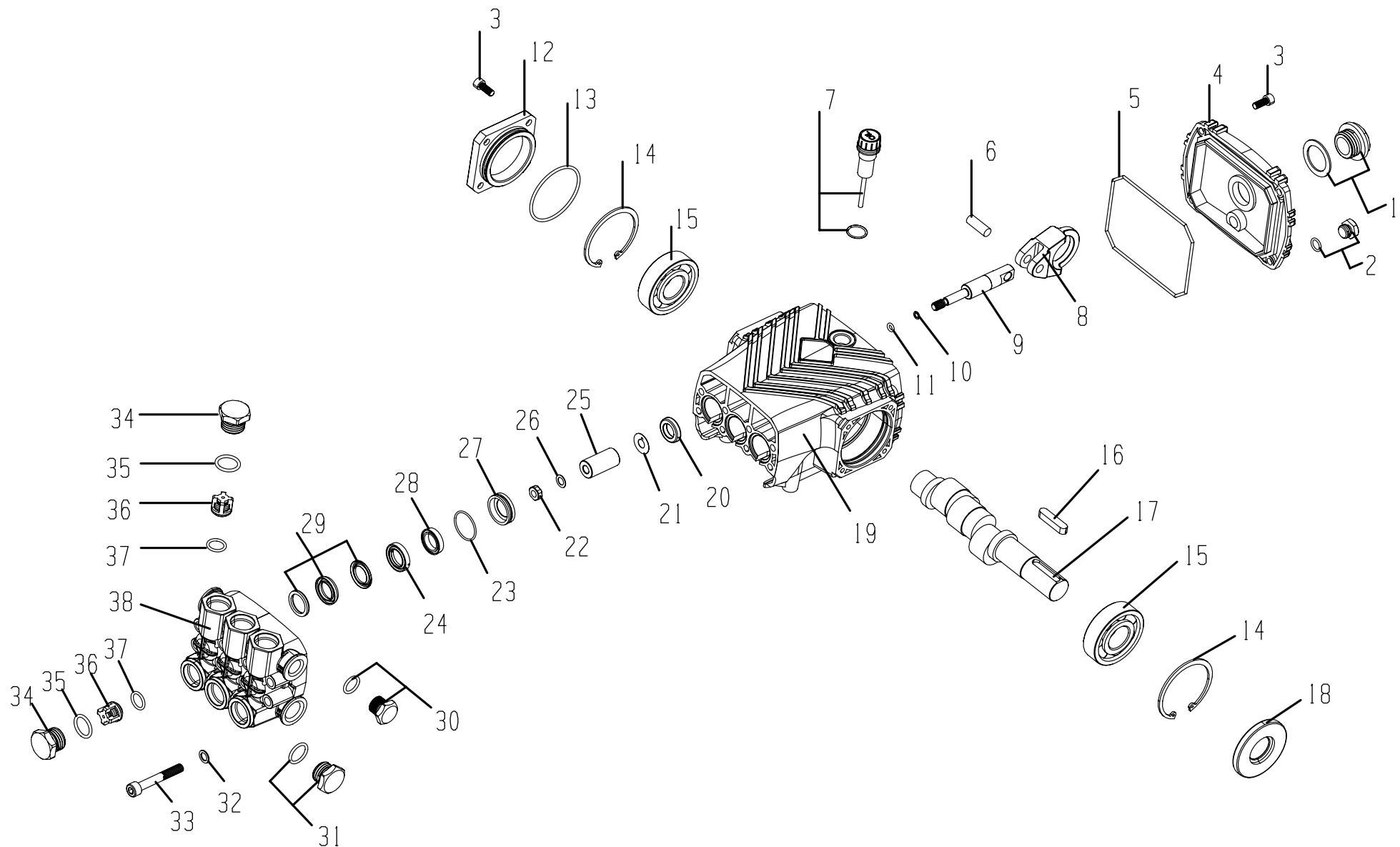
FEATURES

- Nickel-plated brass pump head provides structural strength and improved corrosion resistance.
- Low-friction alloy connecting rod supports high load capacity and reduced wear.
- Ceramic plungers with smooth surface finish for long service life.
- Check valve components made from selected materials for durability and convenient replacement.
- Large-capacity bearings with precision-machined bearing housings and snap-ring retention improve concentricity and operating efficiency.

DIMENSIONS (mm)



EXPLODED VIEW



COMPONENTS

ITEM	PART NO.	Name	QTY	ITEM	PART NO.	Name	QTY	ITEM	PART NO.	Name	QTY
1	7.906-160	Oil Slight Glass	1	14	7.906-043	Snap Ring	2	27	7.906-040.4	Guide Seat	3
2	7.400-001	Hexagon Nut	1	15	7.906-014.2	Bearing	2	28	7.906-007.7	Low Pressure Water Seal	3
3	7.301-001	Hexagon Socket Bolt	8	16	7.906-035.1	Parallel Key	1	29	7.906-007.6	High Pressure Water Seal	3
4	7.906-011.2	Crankcase Rear Cover	1	17	7.906-025.4	Crankshaft	1	30	7.400-011	Stainless Steel Plug	1
5	7.906-005.9	Rear Cover O-Ring	1	18	7.906-355	Shaft Oil Seal	1	31	7.400-001.2	Stainless Steel Plug	1
6	7.906-033.2	Plunger Pin	3	19	7.906-011.2	Crankcase	1	32	7.906-022	Double-Sided Toothed Washer	8
7	7.906-034	Dipstick	1	20	7.906-006.2	Crankcase Oil Seal	3	33	7.301-002	Hexagon Socket Bolt	8
8	7.906-001.3	Connecting Rod	3	21	7.906-131	Water Seal Washer	3	34	7.301-003	Check Valve Nut	6
9	7.906-002.2	Plunger Rod	3	22	7.906-002.2	Plunger Rod Nut	3	35	7.906-005.11	Check Valve Nut O-Ring	6
10	7.906-008.4	45° Split Washer	3	23	7.906-005.10	Guide Seat Seal Ring	3	36	7.906-013.2	Check Valve	6
11	7.906-019	O-Ring	3	24	7.906-041.3	Copper Pressure Ring	3	37	7.906-019.1	Check Valve O-Ring	6
12	7.906-011.2	Side Cover	1	25	7.906-003.6	Ceramic Plunger	3	38	7.906-017.2	Nickel Plated Brass Pump Head	1
13	7.906-005.8	Side Cover O-Ring	1	26	7.906-012.3	Copper Washer	3				

REPAIR KITS

Water Seal Kit		
Index	28	29
Part Number	7.906-007.7	7.906-007.6
Name	Low Pressure Water Seal	High Pressure Water Seal
Quantity	3	3

Oil Seal Kit		
Index	18	20
Part Number	7.906-355	7.906-006.2
Name	Shaft Oil Seal	Crankcase Oil Seal
Quantity	1	3

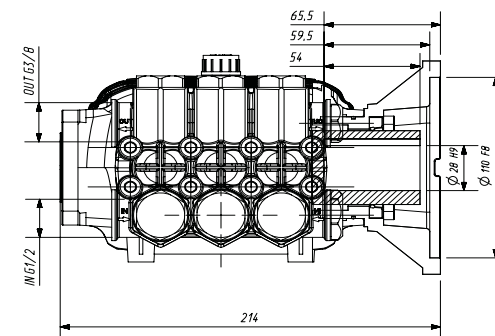
Valve Kit			
Index	35	36	37
Part Number	7.906-005.11	7.906-013.2	7.906-019.1
Name	Check Valve Nut O-Ring	Check Valve	Check Valve O-Ring
Quantity	6	6	6

Plunger Kit				
Index	10	11	25	26
Part Number	7.906-008.4	7.906-019	7.906-003.6	7.906-012.3
Name	45° Split Washer	O-Ring	Ceramic Plunger	Copper Washer
Quantity	3	3	3	3

The logo for FUSSEN, featuring a stylized 'F' icon followed by the word 'FUSSEN' in a bold, sans-serif font, with a registered trademark symbol (®) to the upper right.

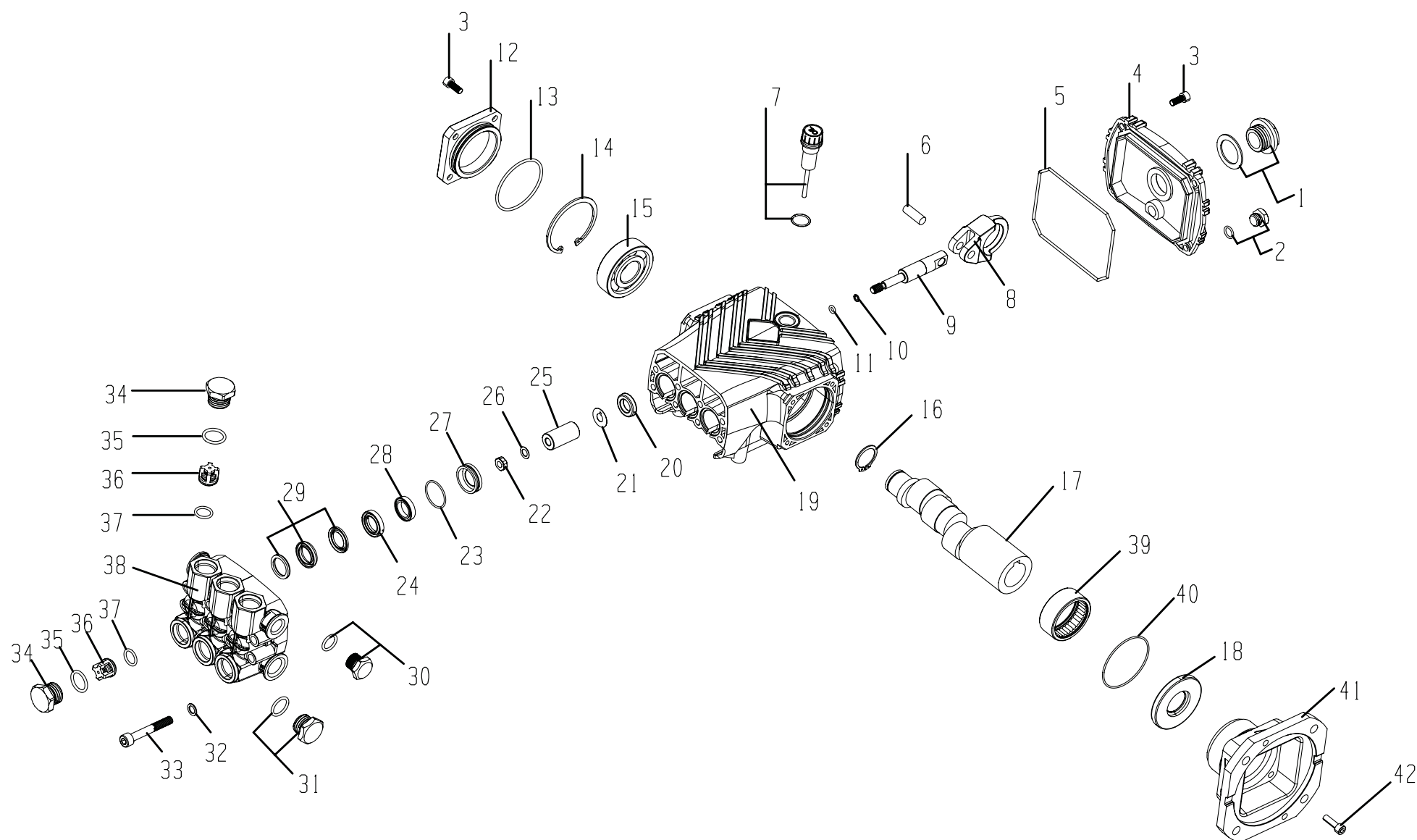
SPECIFICATIONS

Pump Model	FANH 1017	FANH 1312	FANH 1520	FANH 1525	FANH 1820	FANH 1217	FANH 1512	FANH 1825	FANH 2120
Flow Rate (L/min)	10	13	15	15	18	12.1	15.7	18.1	21.7
Pressure (bar)	170	120	200	250	200	170	120	250	200
Power (kw)	3.4	3.1	6	7.5	7.2	4.1	3.8	9.1	8.7
RPM	1450	1450	1450	1450	1450	1750	1750	1750	1750
Shaft Diameter (mm)	28	28	28	28	28	28	28	24	24
Plunger Stroke (mm)	9.5	12	14	14.2	17	9.5	12	14	17
Plunger Diameter (mm)	18								
Oil Capacity (ml)	450								
Inlet Thread	G 1/2								
Outlet Thread	G 3/8								
Weight (kg)	8	8	8	8	8	8	8	7.2	7.2
Dimensions (mm)	234x214x130								



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EXPLODED VIEW



COMPONENTS

ITEM	PART NO.	Name	QTY	ITEM	PART NO.	Name	QTY	ITEM	PART NO.	Name	QTY
1	7.906-160	Oil Slight Glass	1	15	7.906-014.2	Bearing	1	29	7.906-007.6	High Pressure Water Seal	3
2	7.400-001	Hexagonal Nut	1	16	7.906-043.3	Shaft Retaining Ring	1	30	7.400-011	Plug	1
3	7.301-001	Hexagon Socket Bolt	8	17	7.906-025.6	Crankshaft	1	31	7.400-001.2	Plug	1
4	7.906-011.2	Crankcase Rear Cover	1	18	7.999-086	Shaft Oil Seal	1	32	7.906-022	Double-Serrated Washer	8
5	7.906-005.9	Rear Cover O-Ring	1	19	7.906-011.2	Crankcase	1	33	7.301-002	Hexagon Socket Screws	8
6	7.906-033.2	Plunger Pin	3	20	7.906-006.2	Crankcase Oil Seal	3	34	7.301-003	Check Valve Nut	6
7	7.906-034	Dipstick	1	21	7.906-131	Water Seal Washer	3	35	7.906-005.11	Check Valve Nut O-Ring	6
8	7.906-001.3	Connecting Rod	3	22	7.906-002.2	Plunger Rod Nut	3	36	7.906-013.2	Check Valve	6
9	7.906-002.2	Plunger Rod	3	23	7.906-005.10	Guide Seat Seal Ring	3	37	7.906-019.1	Check Valve O-Ring	6
10	7.906-008.4	45° Split Washer	3	24	7.906-041.3	Copper Retaining Ring	3	38	7.906-017.2	Nickel Plated Brass Pump Head	1
11	7.906-019	O-Ring	3	25	7.906-003.6	Ceramic Plunger	3	39	7.999-086	Flange Bearing	1
12	7.906-011.2	Side Cover	1	26	7.906-012.3	Copper Washer	3	40	7.999-086	Flange O-Ring	1
13	7.906-005.8	Side Cover O-Ring	1	27	7.906-040.4	Guide Seat	3	41	7.999-086	Flange	1
14	7.906-043	Snap Ring	1	28	7.906-007.7	Low Pressure Water Seal	3	42	7.301-007	Hexagon Socket Bolt	4

REPAIR KITS

Water Seal Kit		
Index	28	29
Part Number	7.906-007.7	7.906-007.6
Name	Low Pressure Water Seal	High Pressure Water Seal
Quantity	3	3

Oil Seal Kit		
Index	18	20
Part Number	7.999-086	7.906-006.2
Name	Shaft Oil Seal	Crankcase Oil Seal
Quantity	1	3

Valve Kit			
Index	35	36	37
Part Number	7.906-005.11	7.906-013.2	7.906-019.1
Name	Check Valve Nut O-Ring	Check Valve	Check Valve O-Ring
Quantity	6	6	6

Plunger Kit				
Index	10	11	25	26
Part Number	7.906-008.4	7.906-019	7.906-003.6	7.906-012.3
Name	45° Split Washer	O-Ring	Ceramic Plunger	Copper Washer
Quantity	3	3	3	3

FAS Series

STAINLESS STEEL PUMP



Soild Shaft Ø24mm

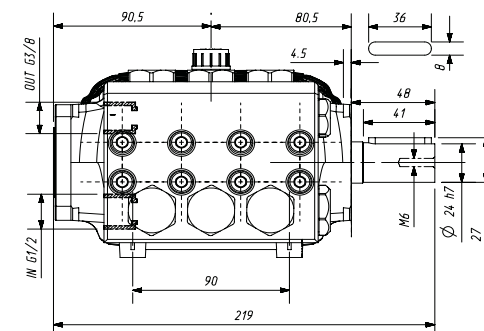
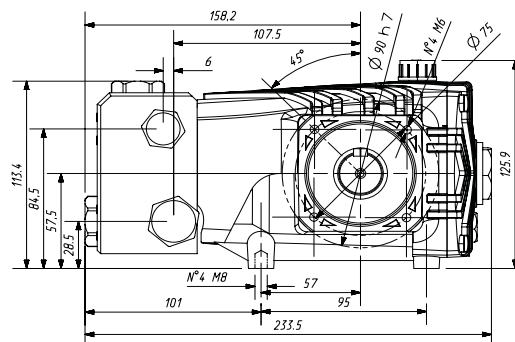
SPECIFICATIONS

Pump Model	FAS 1017	FAS 1312	FAS 1520	FAS 1525	FAS 1820	FAS 1217	FAS 1512	FAS 1825	FAS 2120
Flow Rate (L/min)	10	13	15	15	18	12.1	15.7	18.1	21.7
Pressure (bar)	170	120	200	250	200	170	120	250	200
Power (kw)	3.4	3.1	6	7.5	7.2	4.1	3.8	9.1	8.7
RPM	1450	1450	1450	1450	1450	1750	1750	1750	1750
Shaft Diameter (mm)	24								
Plunger Stroke (mm)	9.5	12	14	14.2	17	9.5	12	14	17
Plunger Diameter (mm)	18								
Oil Capacity (ml)	450								
Inlet Thread	G 1/2								
Outlet Thread	G 3/8								
Weight (kg)	7.2								
Dimensions (mm)	234x219x126								

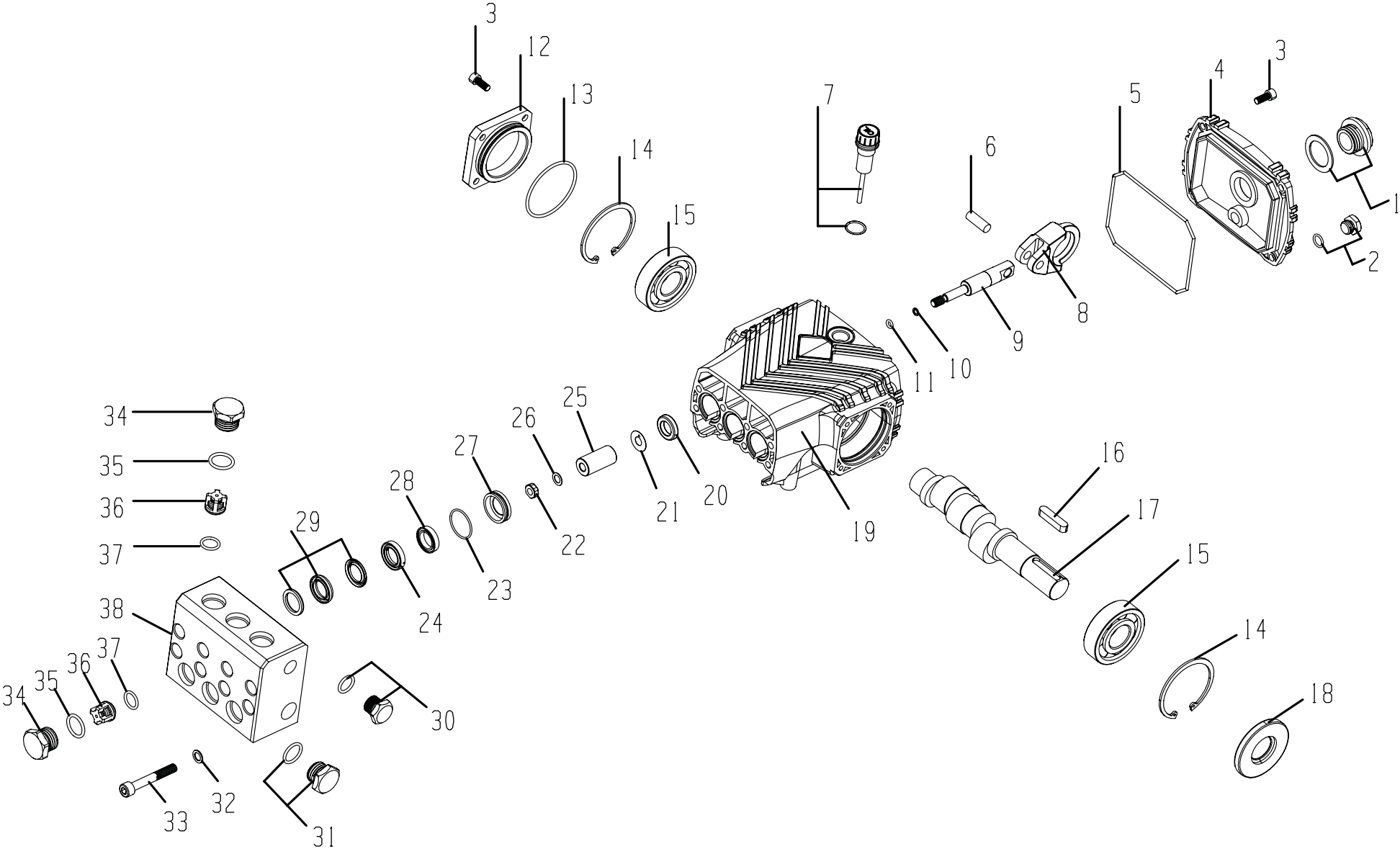
FEATURES

- Stainless-steel pump head provides structural strength and corrosion resistance.
- Low-friction alloy connecting rod supports high load capacity and reduced wear.
- Ceramic plungers with smooth surface finish for long service life.
- Check valve components made from selected materials for durability and convenient replacement.
- Large-capacity bearings with precision-machined bearing housings and snap-ring retention improve concentricity and operating efficiency.

DIMENSIONS (mm)



EXPLODED VIEW



COMPONENTS

ITEM	PART NO.	Name	QTY	ITEM	PART NO.	Name	QTY	ITEM	PART NO.	Name	QTY
1	7.906-160	Oil Slight Glass	1	14	7.906-043	Snap Ring	2	27	7.906-040.4	Guide Seat	3
2	7.400-001	Hexagon Nut	1	15	7.906-014.2	Bearing	2	28	7.906-007.7	Low Pressure Water Seal	3
3	7.301-001	Hexagon Socket Bolt	8	16	7.906-035.1	Parallel Key	1	29	7.906-007.6	High Pressure Water Seal	3
4	7.906-011.2	Crankcase Rear Cover	1	17	7.906-025.4	Crankshaft	1	30	7.400-011	Stainless Steel Plug	1
5	7.906-005.9	Rear Cover O-Ring	1	18	7.906-355	Shaft Oil Seal	1	31	7.400-001.2	Stainless Steel Plug	1
6	7.906-033.2	Plunger Pin	3	19	7.906-011.2	Crankcase	1	32	7.906-022	Double-Sided Toothed Washer	8
7	7.906-034	Dipstick	1	20	7.906-006.2	Crankcase Oil Seal	3	33	7.301-002	Hexagon Socket Bolt	8
8	7.906-001.3	Connecting Rod	3	21	7.906-131	Water Seal Washer	3	34	7.301-003	Check Valve Nut	6
9	7.906-002.2	Plunger Rod	3	22	7.906-002.2	Plunger Rod Nut	3	35	7.906-005.11	Check Valve Nut O-Ring	6
10	7.906-008.4	45° Split Washer	3	23	7.906-005.10	Guide Seat Seal Ring	3	36	7.906-013.2	Check Valve	6
11	7.906-019	O-Ring	3	24	7.906-041.3	Copper Pressure Ring	3	37	7.906-019.1	Check Valve O-Ring	6
12	7.906-011.2	Side Cover	1	25	7.906-003.6	Ceramic Plunger	3	38	7.906-017.2	Stainless Steel Pump Head	1
13	7.906-005.8	Side Cover O-Ring	1	26	7.906-012.3	Copper Washer	3				

REPAIR KITS

Water Seal Kit		
Index	28	29
Part Number	7.906-007.7	7.906-007.6
Name	Low Pressure Water Seal	High Pressure Water Seal
Quantity	3	3

Valve Kit			
Index	35	36	37
Part Number	7.906-005.11	7.906-013.2	7.906-019.1
Name	Check Valve Nut O-Ring	Check Valve	Check Valve O-Ring
Quantity	6	6	6

Oil Seal Kit		
Index	18	20
Part Number	7.906-355	7.906-006.2
Name	Shaft Oil Seal	Crankcase Oil Seal
Quantity	1	3

Plunger Kit				
Index	10	11	25	26
Part Number	7.906-008.4	7.906-019	7.906-003.6	7.906-012.3
Name	45° Split Washer	O-Ring	Ceramic Plunger	Copper Washer
Quantity	3	3	3	3

FASH Series

STAINLESS STEEL PUMP



Hollow Shaft Ø28mm

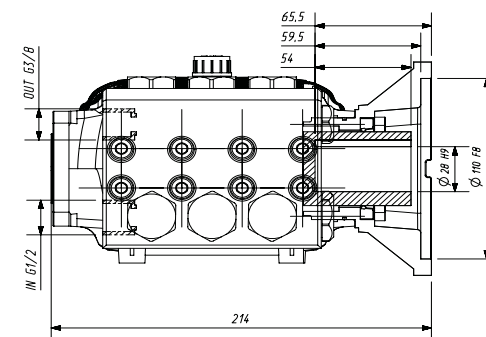
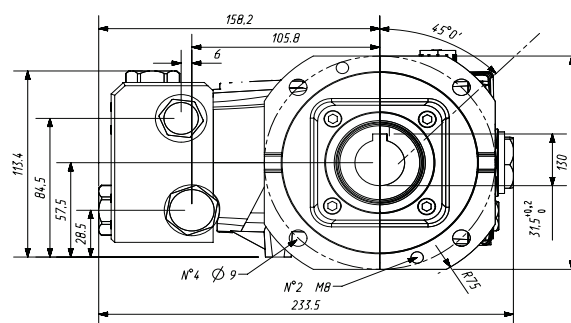
SPECIFICATIONS

Pump Model	FASH 1017	FASH 1312	FASH 1520	FASH 1525	FASH 1820	FASH 1217	FASH 1512	FASH 1825	FASH 2120
Flow Rate (L/min)	10	13	15	15	18	12.1	15.7	18.1	21.7
Pressure (bar)	170	120	200	250	200	170	120	250	200
Power (kw)	3.4	3.1	6	7.5	7.2	4.1	3.8	9.1	8.7
RPM	1450	1450	1450	1450	1450	1750	1750	1750	1750
Shaft Diameter (mm)	28	28	28	28	28	28	28	24	24
Plunger Stroke (mm)	9.5	12	14	14.2	17	9.5	12	14	17
Plunger Diameter (mm)	18								
Oil Capacity (ml)	450								
Inlet Thread	G 1/2								
Outlet Thread	G 3/8								
Weight (kg)	8								
Dimensions (mm)	234x214x130								

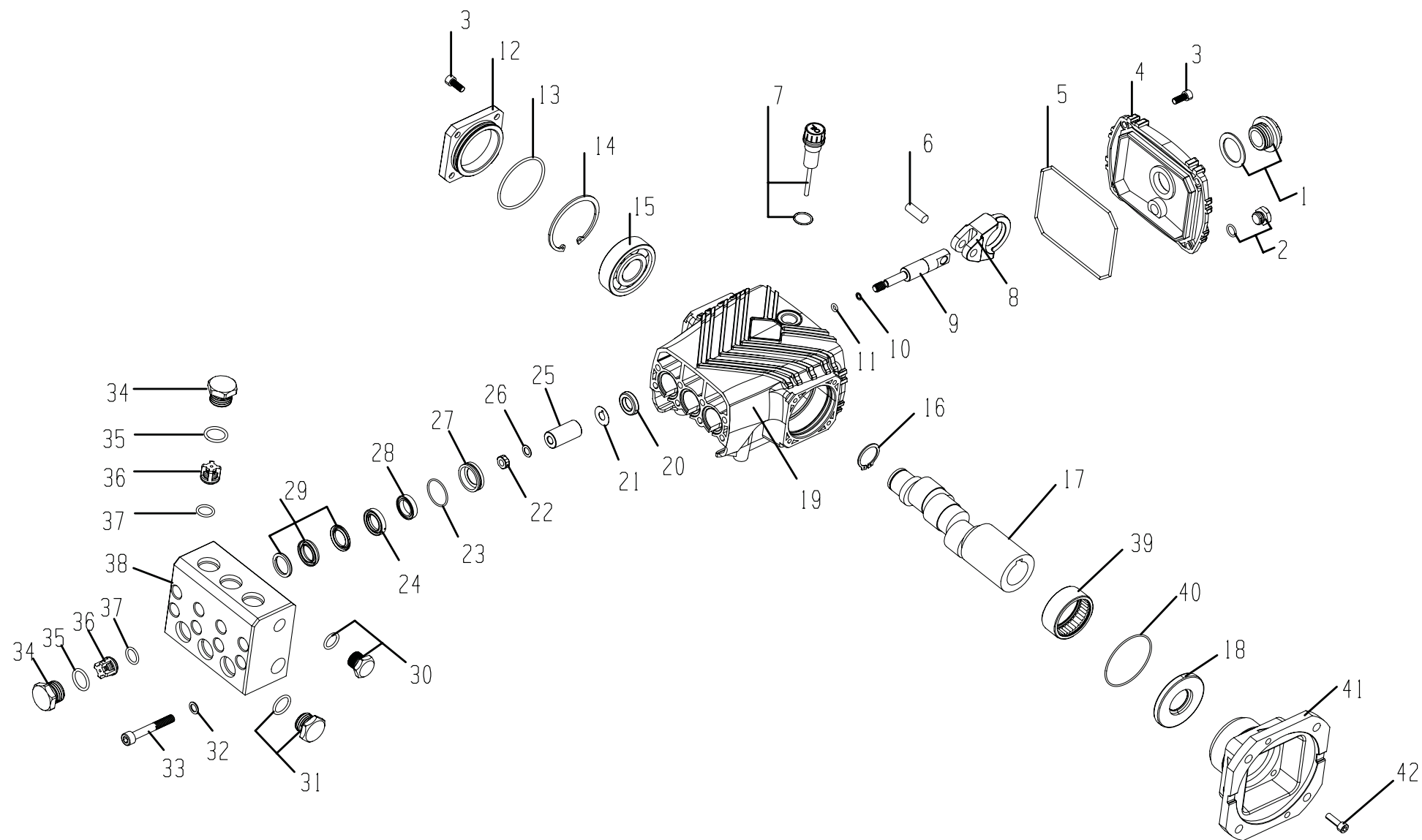
FEATURES

- Stainless-steel pump head provides structural strength and corrosion resistance.
- Low-friction alloy connecting rod supports high load capacity and reduced wear.
- Ceramic plungers with smooth surface finish for long service life.
- Check valve components made from selected materials for durability and convenient replacement.
- Large-capacity bearings with precision-machined bearing housings and snap-ring retention improve concentricity and operating efficiency.

DIMENSIONS (mm)



EXPLODED VIEW



COMPONENTS

ITEM	PART NO.	Name	QTY	ITEM	PART NO.	Name	QTY	ITEM	PART NO.	Name	QTY
1	7.906-160	Oil Slight Glass	1	15	7.906-014.2	Bearing	1	29	7.906-007.6	High Pressure Water Seal	3
2	7.400-001	Hexagonal Nut	1	16	7.906-043.3	Shaft Retaining Ring	1	30	7.400-011	Plug	1
3	7.301-001	Hexagon Socket Bolt	8	17	7.906-025.6	Crankshaft	1	31	7.400-001.2	Plug	1
4	7.906-011.2	Crankcase Rear Cover	1	18	7.999-086	Shaft Oil Seal	1	32	7.906-022	Double-Sided Toothed Washer	8
5	7.906-005.9	Rear Cover O-Ring	1	19	7.906-011.2	Crankcase	1	33	7.301-002	Hexagon Socket Bolt	8
6	7.906-033.2	Plunger Pin	3	20	7.906-006.2	Crankcase Oil Seal*	3	34	7.301-003	Check Valve Nut	6
7	7.906-034	Dipstick	1	21	7.906-131	Water Seal Washer	3	35	7.906-005.11	Check Valve Nut O-Ring	6
8	7.906-001.3	Connecting Rod	3	22	7.906-002.2	Plunger Rod Nut	3	36	7.906-013.2	Check Valve	6
9	7.906-002.2	Plunger Rod	3	23	7.906-005.10	Guide Seat Seal Ring	3	37	7.906-019.1	Check Valve O-Ring	6
10	7.906-008.4	45° Split Washer	3	24	7.906-041.3	Copper Retaining Ring	3	38	7.906-017.2	Stainlesss Steel Pump Head	1
11	7.906-019	O-Ring	3	25	7.906-003.6	Ceramic Plunger	3	39	7.999-086	Flange Bearing	1
12	7.906-011.2	Side Cover	1	26	7.906-012.3	Copper Washer	3	40	7.999-086	Flange O-Ring	1
13	7.906-005.8	Side Cover O-Ring	1	27	7.906-040.4	Guide Seat	3	41	7.999-086	Flange	1
14	7.906-043	Snap Ring	1	28	7.906-007.7	Low Pressure Water Seal	3	42	7.301-007	Hexagon Socket Bolt	4

REPAIR KITS

Water Seal Kit		
Index	28	29
Part Number	7.906-007.7	7.906-007.6
Name	Low Pressure Water Seal	High Pressure Water Seal
Quantity	3	3

Oil Seal Kit		
Index	18	20
Part Number	7.999-086	7.906-006.2
Name	Shaft Oil Seal	Crankcase Oil Seal
Quantity	1	3

Valve Kit			
Index	35	36	37
Part Number	7.906-005.11	7.906-013.2	7.906-019.1
Name	Check Valve Nut O-Ring	Check Valve	Check Valve O-Ring
Quantity	6	6	6

Plunger Kit				
Index	10	11	25	26
Part Number	7.906-008.4	7.906-019	7.906-003.6	7.906-012.3
Name	45° Split Washer	O-Ring	Ceramic Plunger	Copper Washer
Quantity	3	3	3	3

FBB Series

BRASS PUMP



Soild Shaft Ø24mm

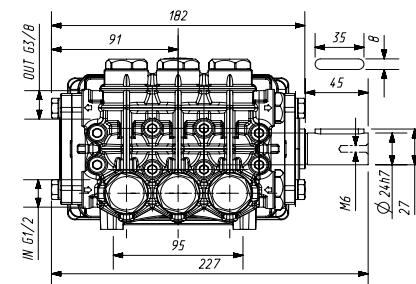
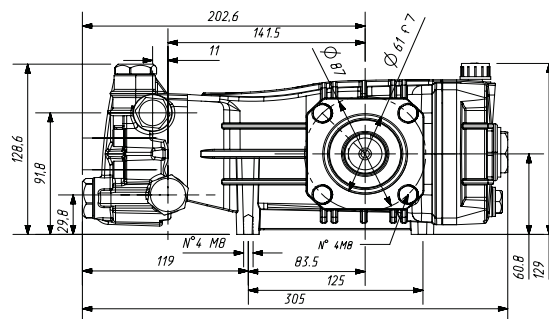
SPECIFICATIONS

Pump Model	FBB 1035	FBB 1530	FBB 1535	FBB 1828	FBB 2125	FBB 1235	FBB 1825	FBB 1835	FBB 2128	FBB 2525
Flow Rate (L/min)	10	15	15	18	21	12.1	18.1	18.1	21.7	25.3
Pressure (bar)	350	300	350	280	250	350	250	350	280	250
Power (kw)	7	9	10.5	10.1	10.5	8.4	9.1	12.7	12.2	12.7
RPM	1450	1450	1450	1450	1450	1750	1750	1750	1750	1750
Shaft Diameter (mm)	24									
Plunger Stroke (mm)	9.5	15	15	17	19	9.5	14	14	17	19
Plunger Diameter (mm)	18									
Oil Capacity (ml)	750									
Inlet Thread	G 1/2									
Outlet Thread	G 3/8									
Weight (kg)	10.7									
Dimensions (mm)	305x227x129									

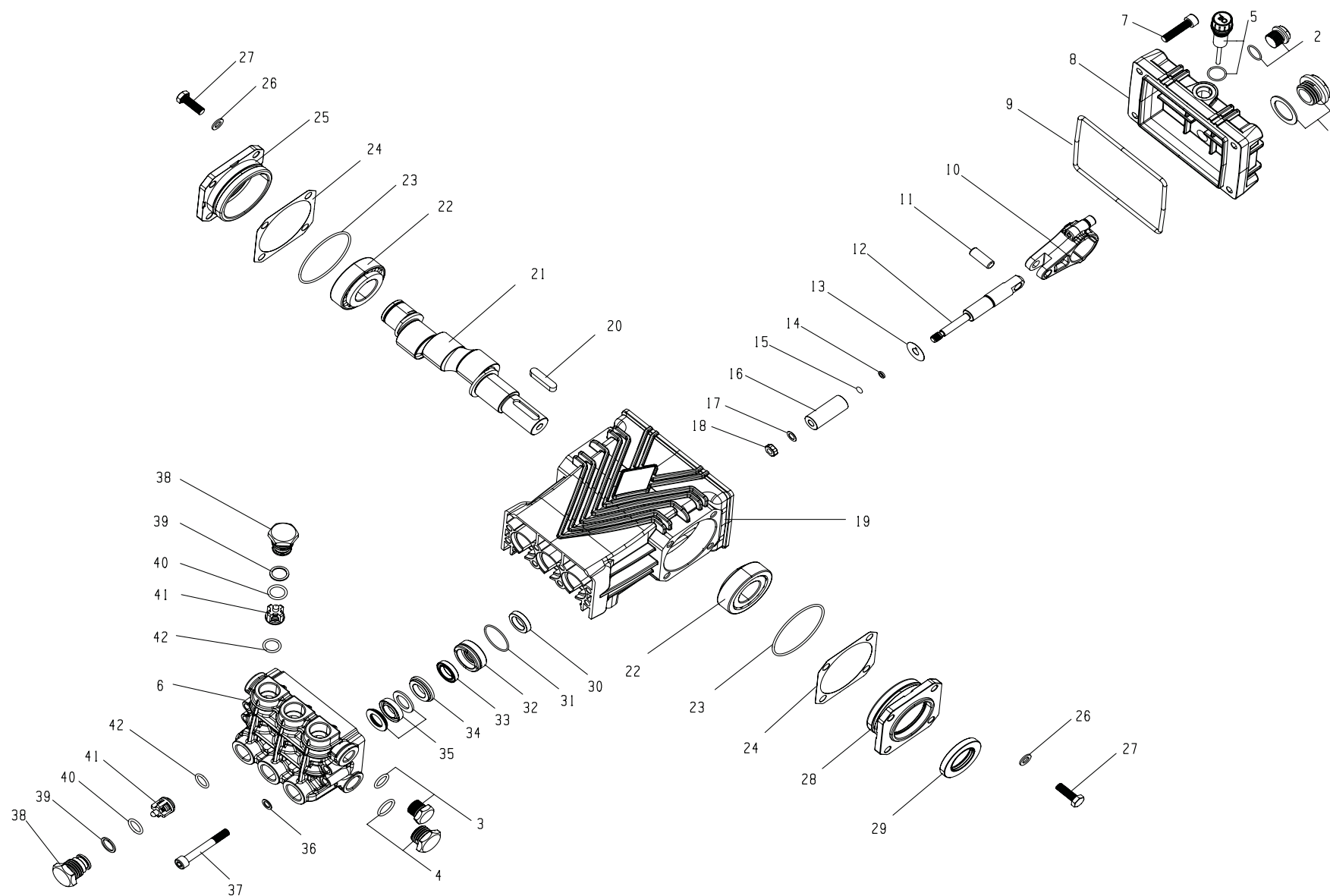
FEATURES

- Brass pump head provides structural strength and rust resistance.
- Forged crankshaft with surface nitriding improves strength and wear resistance.
- Low-friction alloy connecting rod supports high load capacity.
- Tapered roller bearings improve load capability and durability.
- Ceramic plungers with smooth surface finish for extended service life.

DIMENSIONS (mm)



EXPLODED VIEW



COMPONENTS

ITEM	PART NO.	Name	QTY	ITEM	PART NO.	Name	QTY	ITEM	PART NO.	Name	QTY
1	7.906-160	Oil Sight Glass	1	15	7.906-019	O-Ring	3	29	7.906-006	Rotating Oil Seal	1
2	7.400-011.1	Plug	1	16	7.906-003.1	Ceramic Plunger	3	30	7.906-006.2	Crankcase Oil Seal	3
3	7.400-011	Plug	1	17	7.906-012.3	Copper Washer	3	31	7.906-019.3	Guide Seat O-Ring	3
4	7.400-001.2	Plug	1	18	7.906-033.1	Plunger Rod Nut	3	32	7.906-040.3	Guide Seat	3
5	7.906-034	Dipstick	1	19	7.906-011.1	Crankcase	1	33	7.906-352	Low Pressure Water Seal	3
6	7.906-017.1	Brass Pump Head	1	20	7.906-035	Parallel Key	1	34	7.906-041.2	Copper Pressure Ring	3
7	7.301-004	Hexagon Socket Bolt	4	21	7.906-025	Crankshaft	1	35	7.906-007.5	High Pressure Water Seal	3
8	7.906-011.1	Rear Cover	1	22	7.906-014	Tapered Roller Bearings	2	36	7.906-022	Double-Sided Toothed Washer	8
9	7.906-019.4	Rear Cover O-Ring	1	23	7.906-005.3	End Cover Seal	2	37	7.301-005	Hexagon Socket Bolt	8
10	7.906-001.5	Connecting Rod	3	24	7.906-010.5	Adjusting Washer	2	38	7.301-046	Check Valve Screw	6
11	7.906-033.1	Plunger Pin	3	25	7.906-011.1	Side Cover	1	39	7.906-008.3	Check Valve Screw Retaining Ring	6
12	7.906-002.3	Plunger Rod	3	26	7.906-022	Double-Sided Toothed Washer	8	40	7.906-019.2	Check Valve Screw O-Ring	6
13	7.906-008.8	Water Seal Washer	3	27	7.301-009	Hexagon Bolt	8	41	7.906-013.2	Check Valve	6
14	7.906-008.4	Retaining Ring	3	28	7.906-011.1	Side Cover	1	42	7.906-019.1	Check Valve O-Ring	6

REPAIR KITS

Water Seal Kit		
Index	33	35
Part Number	7.906-352	7.906-007.5
Name	Low Pressure Water Seal	High Pressure Water Seal
Quantity	3	3

Oil Seal Kit		
Index	29	30
Part Number	7.906-006	7.906-006.2
Name	Rotating Oil Seal	Crankcase Oil Seal
Quantity	1	3

Valve Kit		
Index	41	42
Part Number	7.906-013.2	7.906-019.1
Name	Check Valve	Check Valve O-Ring
Quantity	6	6

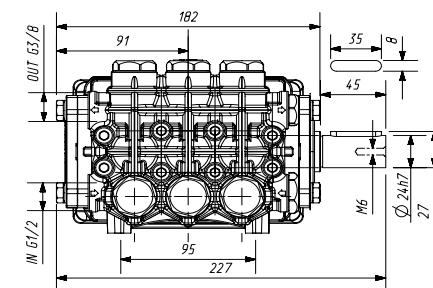
Plunger Kit				
Index	14	15	16	17
Part Number	7.906-008.4	7.906-019	7.906-003.1	7.906-012.3
Name	Retaining Ring	O-Ring	Ceramic Plunger	Copper Washer
Quantity	3	3	3	3

The logo for FUSSEN, featuring a stylized 'F' inside a triangle followed by the word 'FUSSEN' in a bold, sans-serif font, with a registered trademark symbol (®) to the upper right.

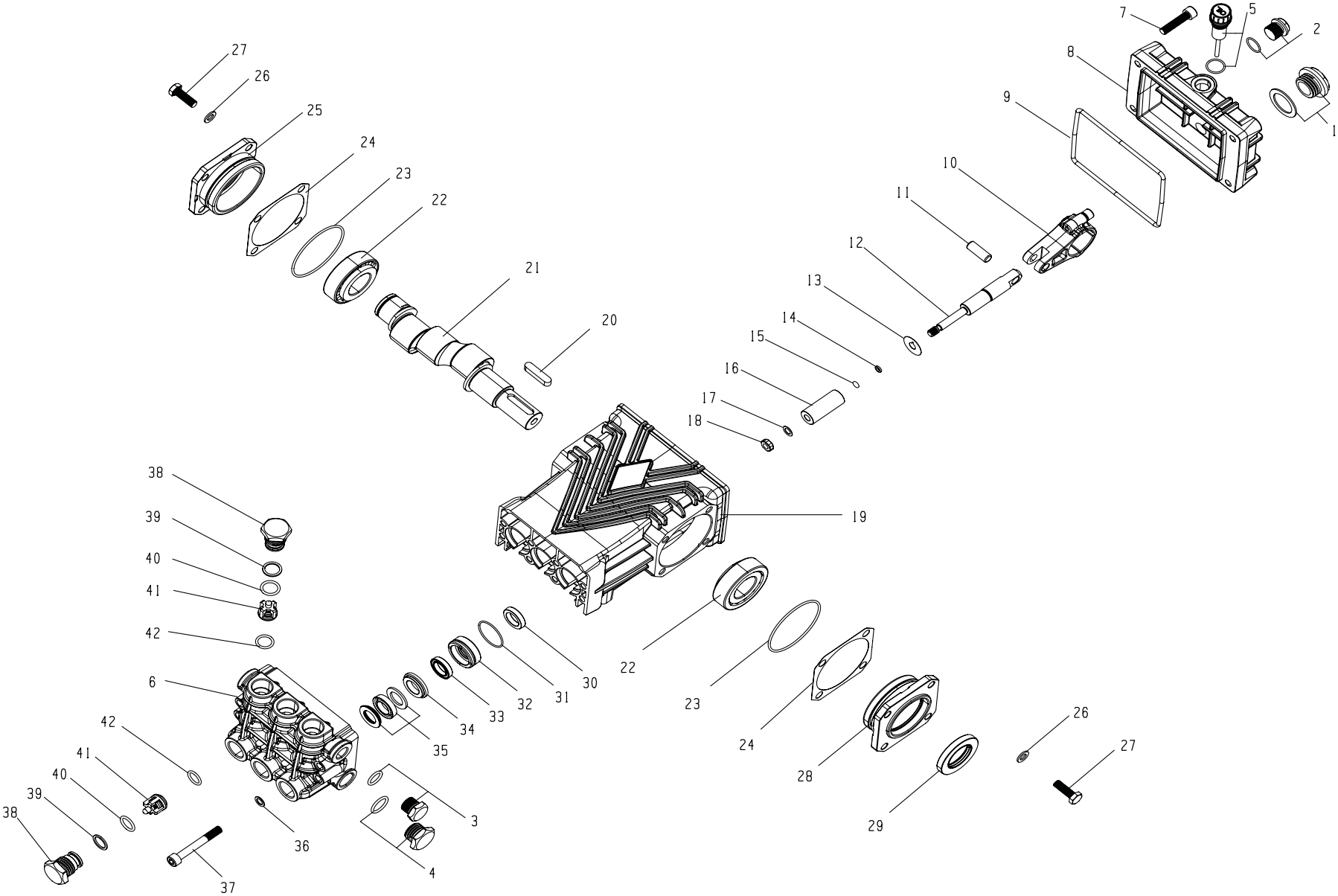
SPECIFICATIONS

Pump Model	FBN 1035	FBN 1530	FBN 1535	FBN 1828	FBN 2125	FBN 1235	FBN 1825	FBN 1835	FBN 2128	FBN 2525	FBN 3620
Flow Rate (L/min)	10	15	15	18	21	12.1	18.1	18.1	21.7	25.3	36.2
Pressure (bar)	350	300	350	280	250	350	250	350	280	250	200
Power (kw)	7	9	10.5	10.1	10.5	8.4	9.1	12.7	12.2	12.7	14.5
RPM	1450	1450	1450	1450	1450	1750	1750	1750	1750	1750	1750
Shaft Diameter (mm)	24										
Plunger Stroke (mm)	9.5	15	15	17	19	9.5	14	14	17	19	19
Plunger Diameter (mm)	18	18	18	18	18	18	18	18	18	18	22
Oil Capacity (ml)	750										
Inlet Thread	G 1/2										
Outlet Thread	G 3/8										
Weight (kg)	10.7										
Dimensions (mm)	305x227x129										

- Nickel-plated brass pump head provides structural strength and improved corrosion resistance.
- Forged crankshaft with surface nitriding improves strength and wear resistance.
- Low-friction alloy connecting rod supports high load capacity.
- Tapered roller bearings improve load capability and durability.
- Ceramic plungers with smooth surface finish for extended service life.



EXPLODED VIEW



COMPONENTS

ITEM	PART NO.	Name	QTY	ITEM	PART NO.	Name	QTY	ITEM	PART NO.	Name	QTY
1	7.906-160	Oil Sight Glass	1	15	7.906-019	O-Ring	3	29	7.906-006	Rotating Oil Seal	1
2	7.400-011.1	Plug	1	16	7.906-003.1	Ceramic Plunger	3	30	7.906-006.2	Crankcase Oil Seal	3
3	7.400-011	Plug	1	17	7.906-012.3	Copper Washer	3	31	7.906-019.3	Guide Seat O-Ring	3
4	7.400-001.2	Plug	1	18	7.906-033.1	Plunger Rod Nut	3	32	7.906-040.3	Guide Seat	3
5	7.906-034	Dipstick	1	19	7.906-011.1	Crankcase	1	33	7.906-352	Low Pressure Water Seal	3
6	7.906-017.1	Nickel Plated Brass Pump Head	1	20	7.906-035	Parallel Key	1	34	7.906-041.2	Copper Pressure Ring	3
7	7.301-004	Hexagon Socket Bolt	4	21	7.906-025	Crankshaft	1	35	7.906-007.5	High Pressure Water Seal	3
8	7.906-011.1	Rear Cover	1	22	7.906-014	Tapered Roller Bearings	2	36	7.906-022	Double-Sided Toothed Washer	8
9	7.906-019.4	Rear Cover O-Ring	1	23	7.906-005.3	End Cover Seal	2	37	7.301-005	Hexagon Socket Bolt	8
10	7.906-001.5	Connecting Rod	3	24	7.906-010.5	Adjusting Washer	2	38	7.301-046	Check Valve Screw	6
11	7.906-033.1	Plunger Pin	3	25	7.906-011.1	Side Cover	1	39	7.906-008.3	Check Valve Screw Retaining Ring	6
12	7.906-002.3	Plunger Rod	3	26	7.906-022	Double-Sided Toothed Washer	8	40	7.906-019.2	Check Valve Screw O-Ring	6
13	7.906-008.8	Water Seal Washer	3	27	7.301-009	Hexagon Bolt	8	41	7.906-013.2	Check Valve	6
14	7.906-008.4	Retaining Ring	3	28	7.906-011.1	Side Cover	1	42	7.906-019.1	Check Valve O-Ring	6

REPAIR KITS

Water Seal Kit		
Index	33	35
Part Number	7.906-352	7.906-007.5
Name	Low Pressure Water Seal	High Pressure Water Seal
Quantity	3	3

Oil Seal Kit		
Index	29	30
Part Number	7.906-006	7.906-006.2
Name	Rotating Oil Seal	Crankcase Oil Seal
Quantity	1	3

Valve Kit		
Index	41	42
Part Number	7.906-013.2	7.906-019.1
Name	Check Valve	Check Valve O-Ring
Quantity	6	6

Plunger Kit				
Index	14	15	16	17
Part Number	7.906-008.4	7.906-019	7.906-003.1	7.906-012.3
Name	Retaining Ring	O-Ring	Ceramic Plunger	Copper Washer
Quantity	3	3	3	3

FBS Series

STAINLESS STEEL PUMP



Soild Shaft Ø24mm

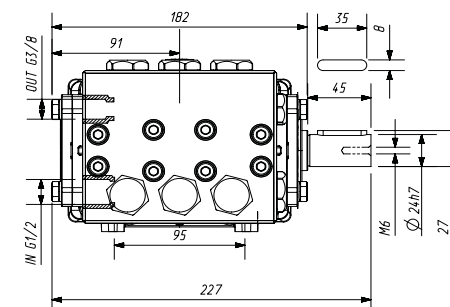
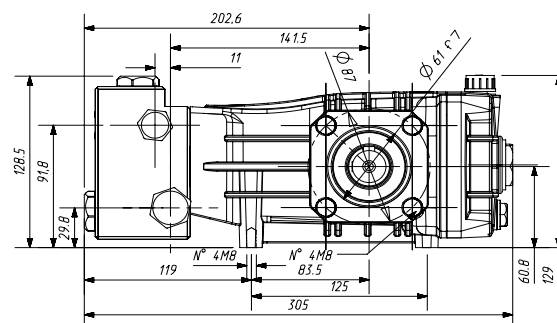
SPECIFICATIONS

Pump Model	FBS 1035	FBS 1530	FBS 1535	FBS 1828	FBS 2125	FBS 3020	FBS 1235	FBS 1825	FBS 1835	FBS 2128	FBS 2525	FBS 3620
Flow Rate (L/min)	10	15	15	18	21	30	12.1	18.1	18.1	21.7	25.3	36.2
Pressure (bar)	350	300	350	280	250	200	350	250	350	280	250	200
Power (kw)	7	9	10.5	10.1	10.5	12	8.4	9.1	12.7	12.2	12.7	14.5
RPM	1450	1450	1450	1450	1450	1450	1750	1750	1750	1750	1750	1750
Shaft Diameter (mm)	24											
Plunger Stroke (mm)	9.5	15	15	17	19	19	9.5	14	14	17	19	19
Plunger Diameter (mm)	18	18	18	18	18	22	18	18	18	18	18	22
Oil Capacity (ml)	750											
Inlet Thread	G 1/2											
Outlet Thread	G 3/8											
Weight (kg)	10.7											
Dimensions (mm)	305x227x129											

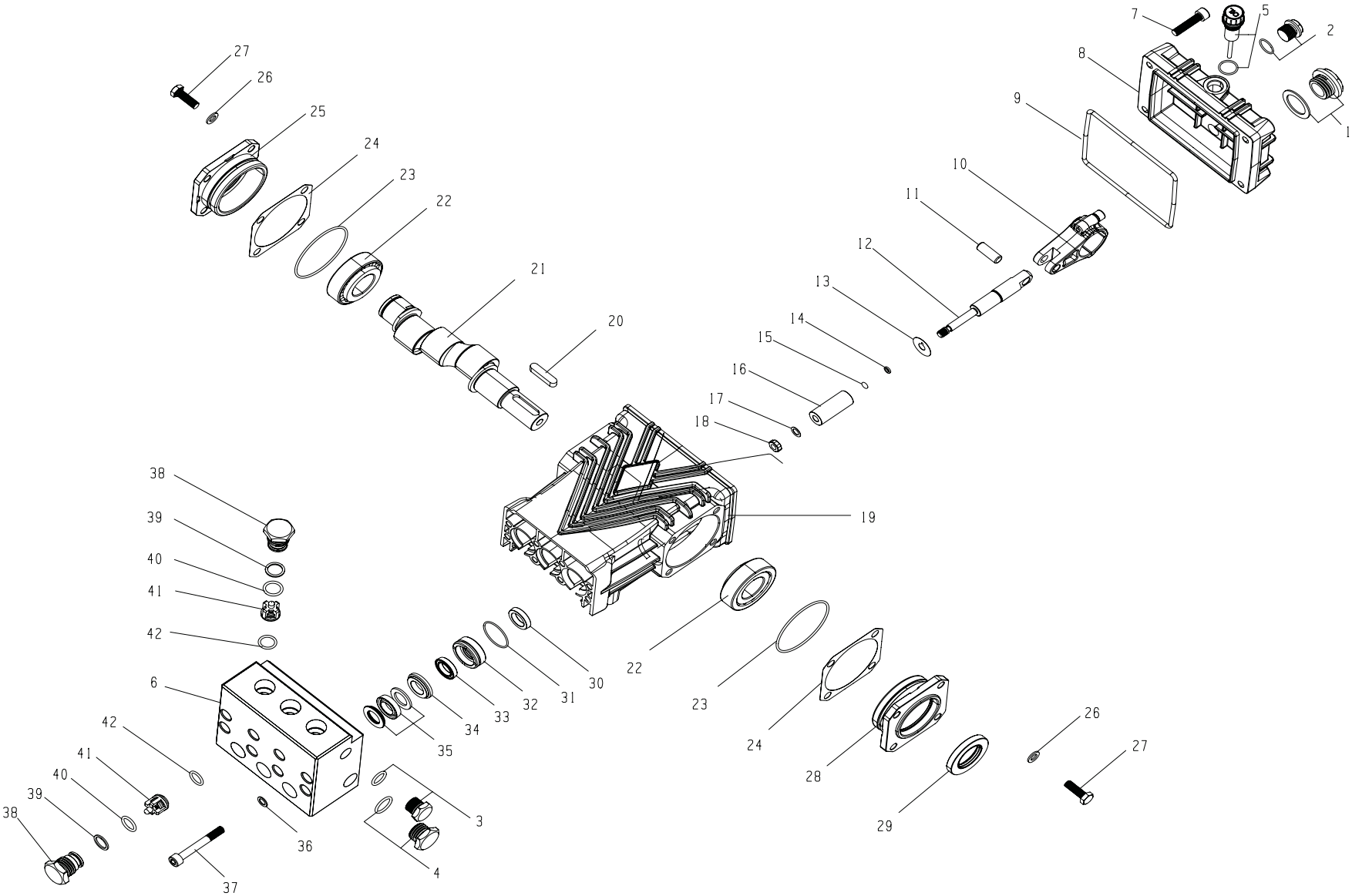
FEATURES

- Stainless-steel pump head provides structural strength and corrosion resistance.
- Forged crankshaft with surface nitriding improves strength and wear resistance.
- Low-friction alloy connecting rod supports high load capacity.
- Tapered roller bearings improve load capability and durability.
- Ceramic plungers with smooth surface finish for extended service life.

DIMENSIONS (mm)



EXPLODED VIEW



COMPONENTS

ITEM	PART NO.	Name	QTY	ITEM	PART NO.	Name	QTY	ITEM	PART NO.	Name	QTY
1	7.906-160	Oil Sight Glass	1	15	7.906-019	O-Ring	3	29	7.906-006	Rotating Oil Seal	1
2	7.400-011.1	Plug	1	16	7.906-003.1	Ceramic Plunger	3	30	7.906-006.2	Crankcase Oil Seal	3
3	7.400-011	Plug	1	17	7.906-012.3	Copper Washer	3	31	7.906-019.3	Guide Seat O-Ring	3
4	7.400-001.2	Plug	1	18	7.906-033.1	Plunger Rod Nut	3	32	7.906-040.3	Guide Seat	3
5	7.906-034	Dipstick	1	19	7.906-011.1	Crankcase	1	33	7.906-352	Low Pressure Water Seal	3
6	7.906-231	Stainless Steel Pump Head	1	20	7.906-035	Parallel Key	1	34	7.906-041.2	Copper Pressure Ring	3
7	7.301-004	Hexagon Socket Bolt	4	21	7.906-025	Crankshaft	1	35	7.906-007.5	High Pressure Water Seal	3
8	7.906-011.1	Rear Cover	1	22	7.906-014	Tapered Roller Bearings	2	36	7.906-022	Double-Sided Toothed Washer	8
9	7.906-019.4	Rear Cover O-Ring	1	23	7.906-005.3	End Cover Seal	2	37	7.301-051	Hexagon Socket Bolt	8
10	7.906-001.5	Connecting Rod	3	24	7.906-010.5	Adjusting Washer	2	38	7.301-046	Check Valve Screw	6
11	7.906-033.1	Plunger Pin	3	25	7.906-011.1	Side Cover	1	39	7.906-008.3	Check Valve Screw Retaining Ring	6
12	7.906-002.3	Plunger Rod	3	26	7.906-022	Double-Sided Toothed Washer	8	40	7.906-019.2	Check Valve Screw O-Ring	6
13	7.906-008.8	Water Seal Washer	3	27	7.301-009	Hexagon Bolt	8	41	7.906-013.2	Check Valve	6
14	7.906-008.4	Retaining Ring	3	28	7.906-011.1	Side Cover	1	42	7.906-019.1	Check Valve O-Ring	6

REPAIR KITS

Water Seal Kit		
Index	33	35
Part Number	7.906-352	7.906-007.5
Name	Low Pressure Water Seal	High Pressure Water Seal
Quantity	3	3

Oil Seal Kit		
Index	29	30
Part Number	7.906-006	7.906-006.2
Name	Rotating Oil Seal	Crankcase Oil Seal
Quantity	1	3

Valve Kit			
Index	41	42	
Part Number	7.906-013.2	7.906-019.1	
Name	Check Valve	Check Valve O-Ring	
Quantity	6	6	

Plunger Kit				
Index	14	15	16	17
Part Number	7.906-008.4	7.906-019	7.906-003.1	7.906-012.3
Name	Retaining Ring	O-Ring	Ceramic Plunger	Copper Washer
Quantity	3	3	3	3

FCB Series

BRASS PUMP



Soild Shaft Ø24mm

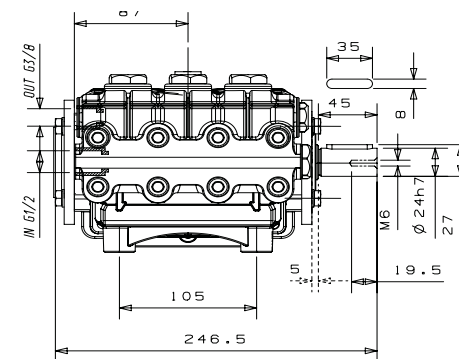
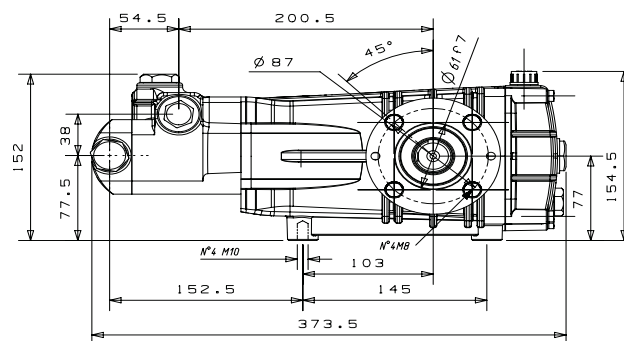
SPECIFICATIONS

Pump Model	FCB 1550	FCB 1850	FCB 1860	FCB 2250	FCB 2260	FCB 2650
Flow Rate (L/min)	15	18	18	22	22	26
Pressure (bar)	500	500	600	500	600	500
Power (kw)	15	18	22	22	26.4	26.4
RPM	1450	1750	1450	1450	1750	1750
Shaft Diameter (mm)	24					
Plunger Stroke (mm)	21.2	21.2	17.5	21.2	17.5	21.2
Plunger Diameter (mm)	15	15	18	18	18	18
Oil Capacity (ml)	1100					
Inlet Thread	G 1/2					
Outlet Thread	G 3/8					
Weight (kg)	20.5					
Dimensions (mm)	385X247X155					

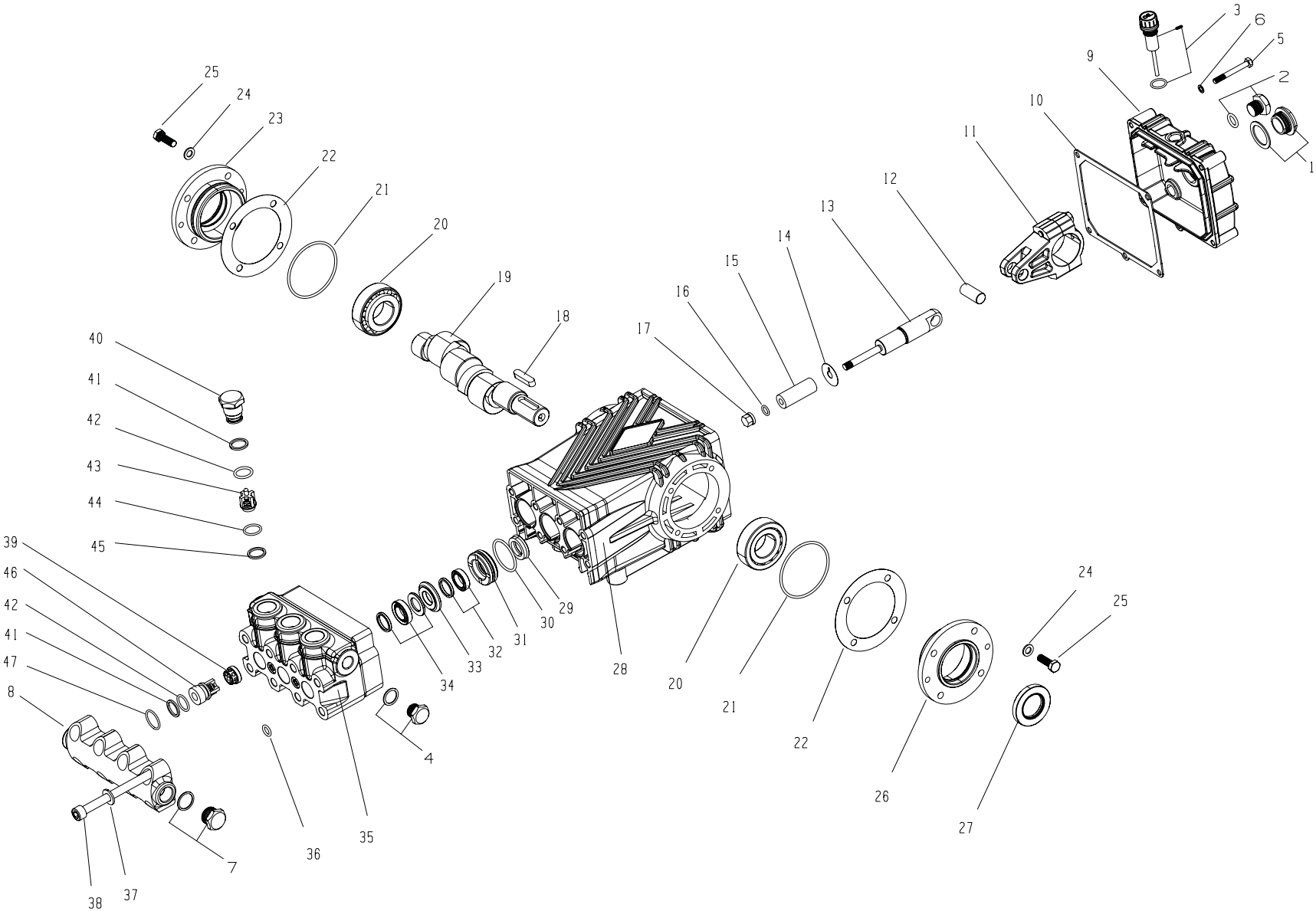
FEATURES

- High-pressure brass pump head provides structural strength and rust resistance.
- Forged crankshaft with surface nitriding improves strength and wear resistance.
- Low-friction alloy connecting rod supports high load capacity.
- Tapered roller bearings improve load capability and durability.
- Ceramic plungers with smooth surface finish for long service life.

DIMENSIONS(mm)



EXPLODED VIEW



COMPONENTS

ITEM	PART NO.	Name	QTY	ITEM	PART NO.	Name	QTY	ITEM	PART NO.	Name	QTY
1	7.906-160	Oil Sight Glass	1	17	7.906-002	Plunger Rod Nut	3	33	7.906-041	Copper Pressure Ring	3
2	7.400-011.1	Plug	1	18	7.906-035	Parallel Key	1	34	7.906-007.10	High Pressure Water Seal	3
3	7.906-034	Dipstick	1	19	7.906-025.8	Crankshaft	1	35	7.906-210	Brass Pump Head	1
4	7.400-011	Plug	1	20	7.906-014	Tapered Roller Bearings	2	36	7.906-005.1	Cooling Water O-Ring	2
5	7.301-008	Hexagon Bolt	5	21	7.906-005.3	End Cap O-Ring	2	37	7.906-145	Double-Sided Toothed Washer	8
6	7.906-146	Double-Sided Toothed Washer	5	22	7.906-137.138.139	Adjusting Washer	3	38	7.301-052	Hexagon Socket Bolt	8
7	7.400-001.2	Plug	1	23	7.906-011	Side Cover	1	39	7.906-042	Check Valve Copper Support	3
8	7.906-211	Copper End Cap	1	24	7.906-022	Double Sided Tooth Gasket	8	40	7.301-053	Copper Valve Cover Nut	6
9	7.906-011	Rear Cover	1	25	7.301-009	Hexagon Bolt	8	41	7.906-008.1	Open Retaining Ring	6
10	7.906-010	Rubber Gasket	1	26	7.906-011	Side Cover	1	42	7.906-005.4	O-Ring	6
11	7.906-001.4	Connecting Rod	3	27	7.906-006	Oil Seal	1	43	7.906-013.1	High Pressure Valve	3
12	7.906-033	Plunger Pin	3	28	7.906-011	Crankcase	1	44	7.906-005.4	High Pressure Valve O-Ring	3
13	7.906-002	Plunger Rod	3	29	7.906-006.1	Crankcase Oil Seal	3	45	7.906-008	High Pressure Valve Retaining Ring	3
14	7.906-132	Water Seal Washer	3	30	7.906-005.5	Guide Seat O-Ring	3	46	7.906-013	Low Pressure Valve	3
15	7.906-164	Ceramic Plunger	3	31	7.906-040	Guide Seat	3	47	7.906-005.2	Low Pressure Cover O-Ring	3
16	7.906-005	Plunger Rod O-Ring	3	32	7.906-007.1	Low Pressure Water Seal	3				

REPAIR KITS

Water Seal Kit		
Index	32	34
Part Number	7.906-007.1	7.906-007.10
Name	Low Pressure Water Seal	High Pressure Water Seal
Quantity	3	3

Valve Kit					
Index	42	43	44	46	47
Part Number	7.906-005.4	7.906-013.1	7.906-005.4	7.906-013	7.906-005.2
Name	O-Ring	High Pressure Valve	High Pressure Valve O-Ring	Low Pressure Valve	Low Pressure Cover O-Ring
Quantity	6	3	3	3	3

Oil Seal Kit		
Index	27	29
Part Number	7.906-006	7.906-006.1
Name	Oil Seal	Crankcase Oil Seal
Quantity	1	3

Plunger Kit		
Index	15	16
Part Number	7.906-164	7.906-005
Name	Ceramic Plunger	Plunger Rod O-Ring
Quantity	3	3

FCN Series

NICKEL PLATED BRASS PUMP



Soild Shaft Ø24mm

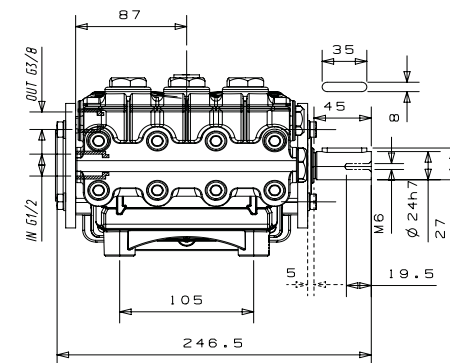
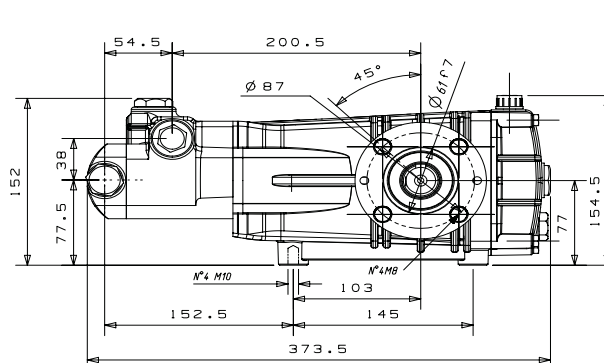
SPECIFICATIONS

Pump Model	FCN 1550	FCN 1850	FCN 1860	FCN 2250	FCN 2260	FCN 2650
Flow Rate (L/min)	15	18	18	22	22	26
Pressure (bar)	500	500	600	500	600	500
Power (kw)	15	19.3	22	22	26.1	26.6
RPM	1450	1750	1450	1450	1750	1750
Shaft Diameter (mm)	24					
Plunger Stroke (mm)	21.2	21.2	17.5	21.2	17.5	21.2
Plunger Diameter (mm)	15	15	18	18	18	18
Oil Capacity (ml)	1100					
Inlet Thread	G 1/2					
Outlet Thread	G 3/8					
Weight (kg)	20.5					
Dimensions (mm)	385X247X155					

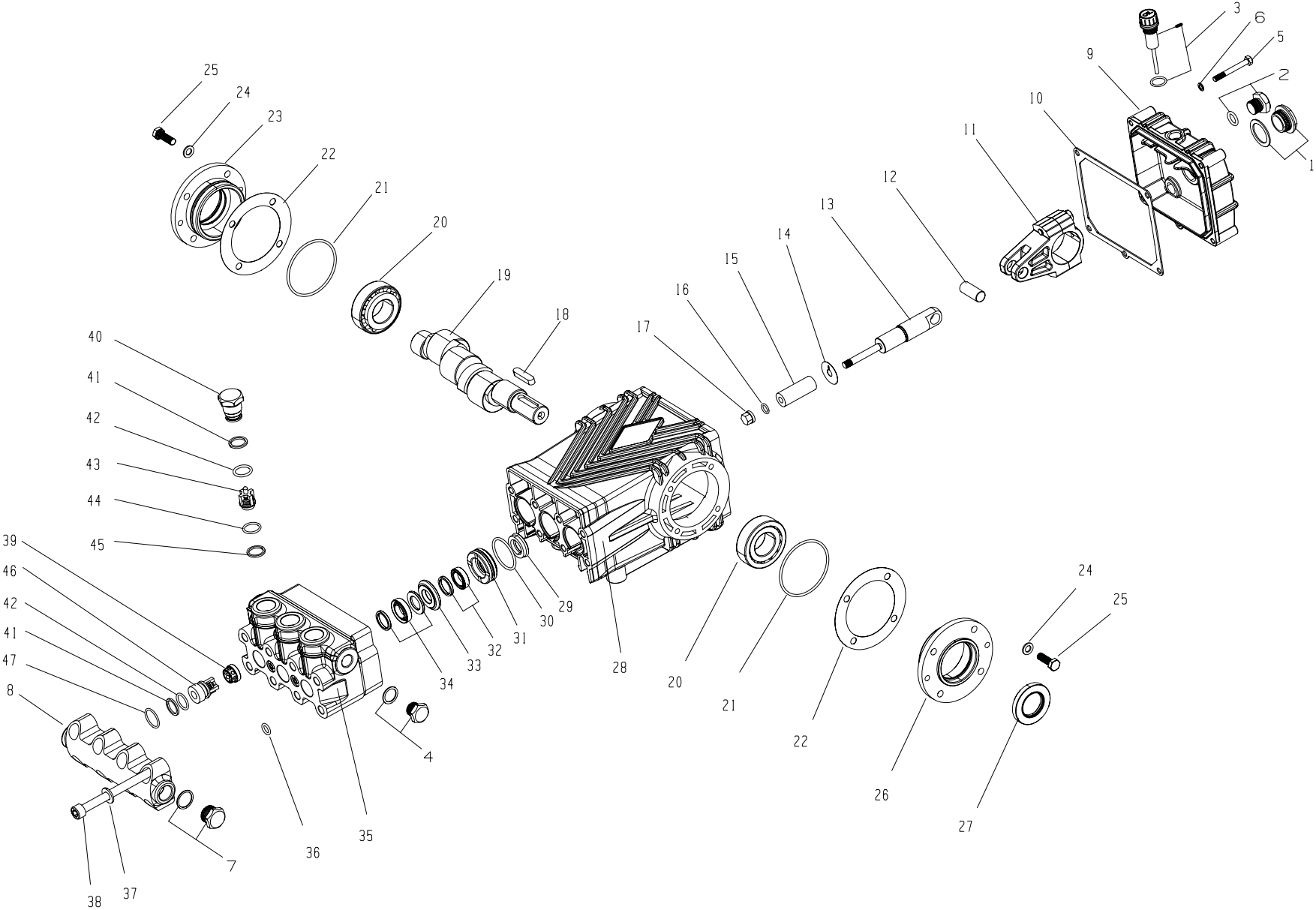
FEATURES

- High-pressure nickel-plated brass pump head provides structural strength and improved corrosion resistance.
- Forged crankshaft with surface nitriding improves strength and wear resistance.
- Low-friction alloy connecting rod supports high load capacity.
- Tapered roller bearings improve load capability and durability.
- Ceramic plungers with smooth surface finish for long service life.

DIMENSIONS(mm)



EXPLODED VIEW



COMPONENTS

ITEM	PART NO.	Name	QTY	ITEM	PART NO.	Name	QTY	ITEM	PART NO.	Name	QTY
1	7.906-160	Oil Sight Glass	1	17	7.906-002	Plunger Rod Nut	3	33	7.906-041	Copper Pressure Ring	3
2	7.400-011.1	Plug	1	18	7.906-035	Parallel Key	1	34	7.906-007.10	High Pressure Water Seal	3
3	7.906-034	Dipstick	1	19	7.906-025.8	Crankshaft	1	35	7.906-210	Nickel Plated Brass Pump Head	1
4	7.400-011	Plug	1	20	7.906-014	Tapered Roller Bearings	2	36	7.906-005.1	Cooling Water O-Ring	2
5	7.301-008	Hexagon Bolt	5	21	7.906-005.3	End Cap O-Ring	2	37	7.906-145	Double-Sided Toothed Washer	8
6	7.906-146	Double-Sided Toothed Washer	5	22	7.906-137.138.139	Adjusting Washer	3	38	7.301-052	Hexagon Socket Bolt	8
7	7.400-001.2	Plug	1	23	7.906-011	Side Cover	1	39	7.906-042	Check Valve Copper Support	3
8	7.906-211	Copper End Cap	1	24	7.906-022	Double-Sided Toothed Washer	8	40	7.301-053	Copper Valve Cover Nut	6
9	7.906-011	Rear Cover	1	25	7.301-009	Hexagon Bolt	8	41	7.906-008.1	Open Retaining Ring	6
10	7.906-010	Rubber Gasket	1	26	7.906-011	Side Cover	1	42	7.906-005.4	O-Ring	6
11	7.906-001.4	Connecting Rod	3	27	7.906-006	Oil Seal	1	43	7.906-013.1	High Pressure Valve	3
12	7.906-033	Plunger Pin	3	28	7.906-011	Crankcase	1	44	7.906-005.4	High Pressure Valve O-Ring	3
13	7.906-002	Plunger Rod	3	29	7.906-006.1	Crankcase Oil Seal	3	45	7.906-008	High Pressure Valve Retaining Ring	3
14	7.906-132	Water Seal Washer	3	30	7.906-005.5	Guide Seat O-Ring	3	46	7.906-013	Low Pressure Valve	3
15	7.906-164	Ceramic Plunger	3	31	7.906-040	Guide Seat	3	47	7.906-005.2	Low Pressure Cover O-Ring	3
16	7.906-005	Plunger Rod O-Ring	3	32	7.906-007.1	Low Pressure Water Seal	3				

REPAIR KITS

Water Seal Kit		
Index	32	34
Part Number	7.906-007.1	7.906-007.10
Name	Low Pressure Water Seal	High Pressure Water Seal
Quantity	3	3

Valve Kit					
Index	42	43	44	46	47
Part Number	7.906-005.4	7.906-013.1	7.906-005.4	7.906-013	7.906-005.2
Name	O-Ring	High Pressure Valve	High Pressure Valve O-Ring	Low Pressure Valve	Low Pressure Cover O-Ring
Quantity	6	3	3	3	3

Oil Seal Kit		
Index	27	29
Part Number	7.906-006	7.906-006.1
Name	Oil Seal	Crankcase Oil Seal
Quantity	1	3

Plunger Kit		
Index	15	16
Part Number	7.906-164	7.906-005
Name	Ceramic Plunger	Plunger Rod O-Ring
Quantity	3	3

FCH Series

STAINLESS STEEL PUMP



Soild Shaft Ø24mm

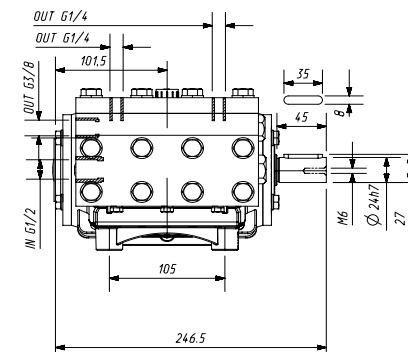
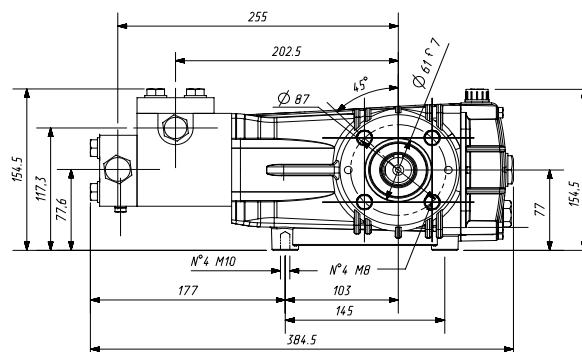
SPECIFICATIONS

Pump Model	FCH 1550	FCH 1850	FCH 1860	FCH 2250	FCH 2260	FCH 2650
Flow Rate (L/min)	15	18	18	22	22.6	26
Pressure (bar)	500	500	600	500	600	500
Power (kw)	15	19.3	21.6	22	26.1	26.6
RPM	1450	1750	1450	1450	1750	1750
Shaft Diameter (mm)	24					
Plunger Stroke (mm)	21.2	21.2	17.5	21.2	17.5	21.2
Plunger Diameter (mm)	15	15	18	18	18	18
Oil Capacity (ml)	1100					
Inlet Thread	G 1/2					
Outlet Thread	G 3/8					
Weight (kg)	23.1					
Dimensions (mm)	385X247X155					

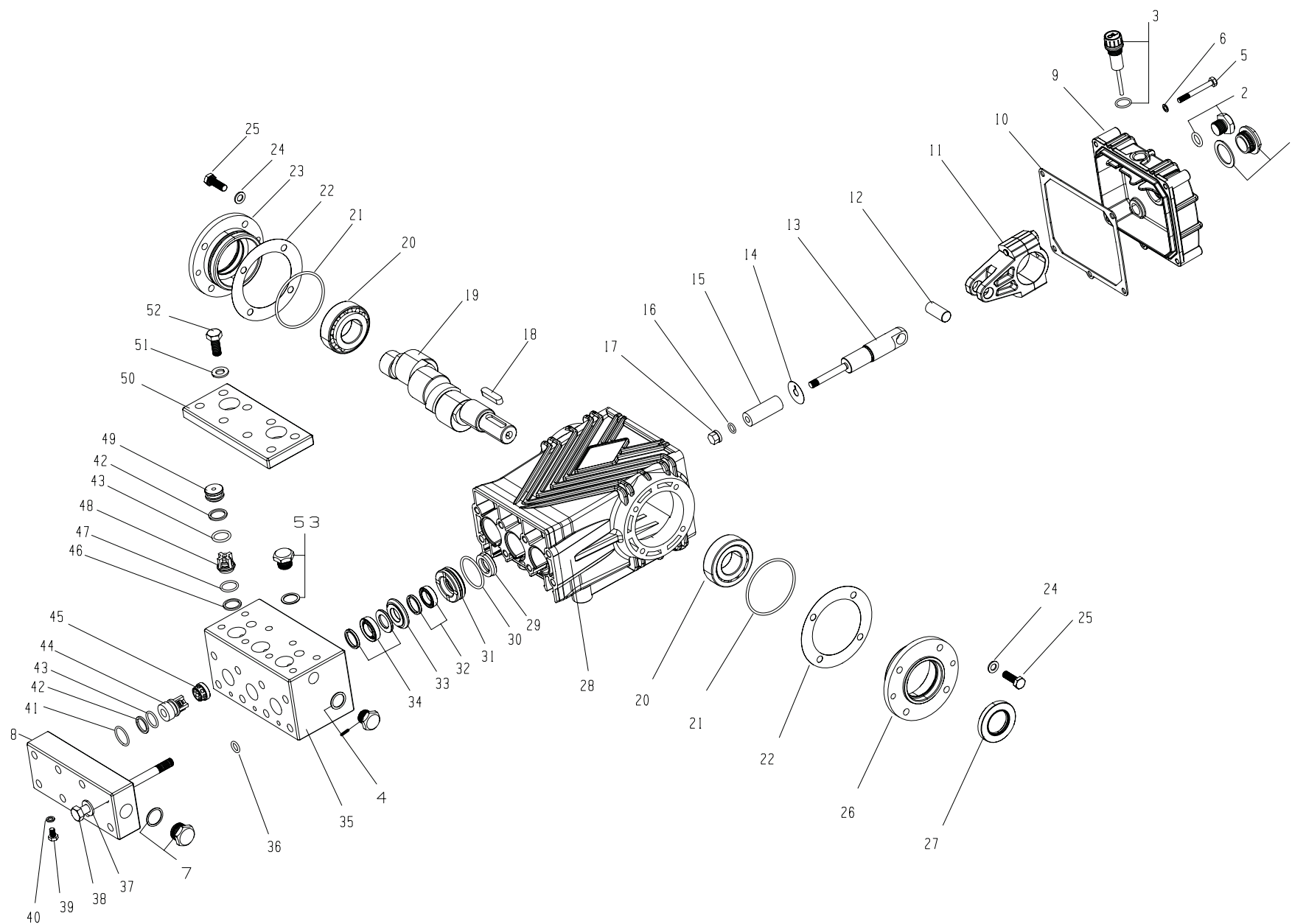
FEATURES

- High-pressure stainless-steel pump head provides structural strength and corrosion resistance.
- Forged crankshaft with surface nitriding improves strength and wear resistance.
- Low-friction alloy connecting rod supports high load capacity.
- Tapered roller bearings improve load capability and durability.
- Ceramic plungers with smooth surface finish for long service life.

DIMENSIONS(mm)



EXPLODED VIEW



COMPONENTS

ITEM	PART NO.	Name	QTY	ITEM	PART NO.	Name	QTY	ITEM	PART NO.	Name	QTY
1	7.906-160	Oil Sight Glass	1	19	7.906-025.8	Crankshaft	1	37	7.906-145	Double-Sided Toothed Washer	8
2	7.400-011.1	Plug	1	20	7.906-014	Tapered Roller Bearings	2	38	7.301-010	M10 Hexagon Bolt	8
3	7.906-034	Dipstick	1	21	7.906-005.3	End Cap O-Ring	2	39	7.301-011	M6 Hexagon Bolt	3
4	7.400-011	Plug	1	22	7.906-137.138.139	Adjusting Washer	3	40	7.906-046	Bonded Seal	3
5	7.301-008	Hexagon Bolt	5	23	7.906-011	Side Cover	1	41	7.906-005.2	Low Pressure Cover O-Ring	3
6	7.906-146	Double-Sided Toothed Washer	5	24	7.906-022	Double-Sided Toothed Washer	8	42	7.906-008.1	Open Retaining Ring	6
7	7.400-001.2	Plug	1	25	7.301-009	Hexagon Bolt	8	43	7.906-005.4	O-Ring	6
8	7.906-032	Low Pressure Cover	1	26	7.906-011	Side Cover	1	44	7.906-013	Low Pressure Valve	3
9	7.906-011	Rear Cover	1	27	7.906-006	Oil Seal	1	45	7.906-042	Check Valve Copper Support	3
10	7.906-010	Rubber Gasket	1	28	7.906-011	Crankcase	1	46	7.906-008	High Pressure Valve Retaining Ring	3
11	7.906-001.4	Connecting Rod	3	29	7.906-006.1	Crankcase Oil Seal	3	47	7.906-005.4	High Pressure Valve O-Ring	3
12	7.906-033	Plunger Pin	3	30	7.906-005.5	Guide Seat O-Ring	3	48	7.906-013.1	High Pressure Valve	3
13	7.906-002	Plunger Rod	3	31	7.906-040	Guide Seat	3	49	7.906-047	High Pressure Valve Copper Seat	3
14	7.906-132	Water Seal Washer	3	32	7.906-352	Low Pressure Water Seal	3	50	7.906-032	High Pressure Valve Cover Plate	1
15	7.906-164	Ceramic Plunger	3	33	7.906-041	Copper Pressure Ring	3	51	7.906-145	Double-Sided Toothed Washer	8
16	7.906-005	Plunger Rod O-Ring	3	34	7.906-362	High Pressure Water Seal	3	52	7.301-015	M10 Hexagon Bolt	8
17	7.906-002	Plunger Rod Nut	3	35	7.906-032	Stainless Steel Pump Head	1	53	7.400-001	Plug	1
18	7.906-035	Parallel Key	1	36	7.906-005.1	Cooling Water O-Ring	3				

REPAIR KITS

Water Seal Kit		
Index	32	34
Part Number	7.906-352	7.906-362
Name	Low Pressure Water Seal	High Pressure Water Seal
Quantity	3	3

Oil Seal Kit		
Index	27	29
Part Number	7.906-006	7.906-006.1
Name	Oil Seal	Crankcase Oil Seal
Quantity	1	3

Valve Kit						
Index	42	43	44	46	47	48
Part Number	7.906-008.1	7.906-005.4	7.906-013	7.906-008	7.906-005.4	7.906-013.1
Name	Open Retaining Ring	O-Ring	Low Pressure Valve	High Pressure Valve Retaining Ring	High Pressure Valve O-Ring	High Pressure Valve
Quantity	6	6	3	3	3	3

Plunger Kit		
Index	15	16
Part Number	7.906-164	7.906-005
Name	Ceramic Plunger	Plunger Rod O-Ring
Quantity	3	3

FCC Series

BRASS PUMP



Soild Shaft Ø24mm

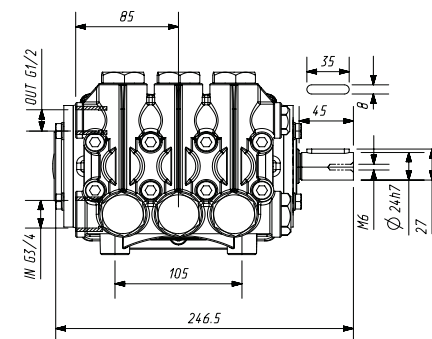
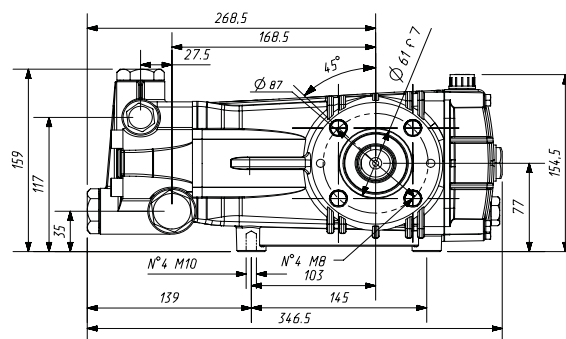
SPECIFICATIONS

Pump Model	FCC 2135	FCC 3020	FCC 3030	FCC 4025	FCC 5020	FCC 3620	FCC 4819	FCC 6018
Flow Rate (L/min)	21	30	30	40	50	36	48	60
Pressure (bar)	350	200	300	250	200	200	190	180
Power (kw)	15	12	18	20	20	14.4	24	24
RPM	1450	1450	1450	1450	1450	1750	1750	1750
Shaft Diameter (mm)	24							
Plunger Stroke (mm)	14	19	19	15.5	19	19	15.5	19
Plunger Diameter (mm)	22	22	22	28	28	22	28	28
Oil Capacity (ml)	1100							
Inlet Thread	G 3/4							
Outlet Thread	G 1/2							
Weight (kg)	17.5							
Dimensions (mm)	347X247X159							

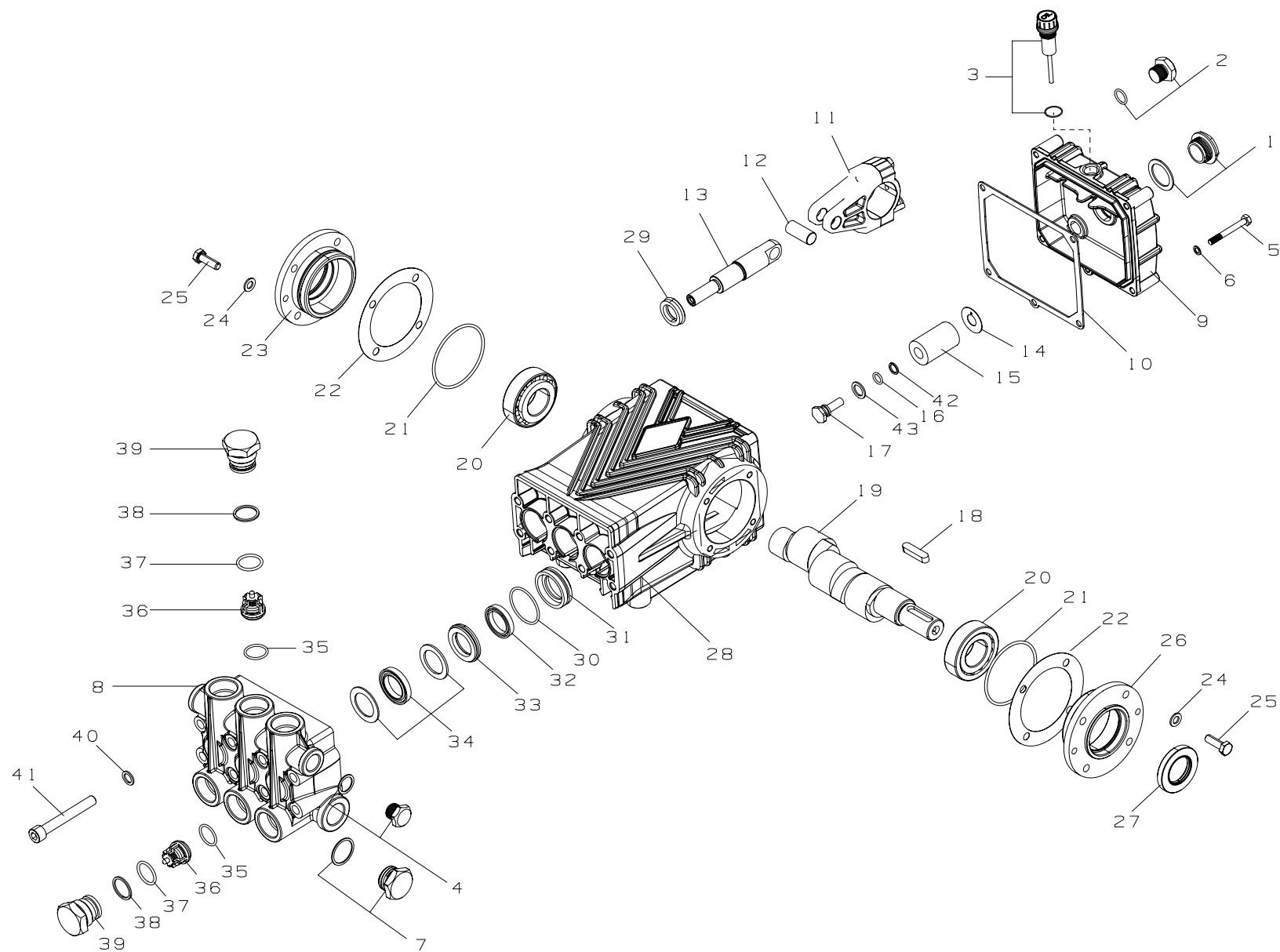
FEATURES

- High-flow brass pump head provides structural strength and rust resistance for continuous operation.
- Forged crankshaft with surface nitriding improves strength and wear resistance.
- Low-friction alloy connecting rod supports high load capacity.
- Tapered roller bearings improve load capability and durability.
- Ceramic plungers with smooth surface finish for long service life.

DIMENSIONS(mm)



EXPLODED VIEW



COMPONENTS

ITEM	PART NO.	Name	QTY	ITEM	PART NO.	Name	QTY	ITEM	PART NO.	Name	QTY
1	7.906-160	Oil Sight Glass	1	16	7.906-005	Plunger Rod O-Ring	3	30	7.906-055	Guide Seat O-Ring	3
2	7.400-011.1	Plug	1	17	7.906-002.4	Plunger Rod Nut	3	31	7.906-040.5	Guide Seat	3
3	7.906-034	Dipstick	1	18	7.906-035.1	Parallel Key	1	32	7.906-358	Low Pressure Water Seal	3
4	7.400-001.2	Plug	1	19	7.906-025.3	Crankshaft	1	33	7.906-110	Copper Pressure Ring	3
5	7.301-008	Hexagon Bolt	5	20	7.906-014	Tapered Roller Bearings	2	34	7.906-363	High Pressure Water Seal	3
6	7.906-146	Double-Sided Toothed Washer	5	21	7.906-005.3	End Cap O-Ring	2	35	7.906-055.1	Valve O-Ring	6
7	7.400-001.1	Plug	1	22	7.906-137.138.139	Adjusting Washer	3	36	7.906-109	Valve	6
8	7.906-212	Brass Pump Head	1	23	7.906-011	Side Cover	1	37	7.906-055.2	Valve Cover Screw O-Ring	6
9	7.906-011	Rear Cover	1	24	7.906-022	Double-Sided Toothed Washer	8	38	7.906-056	Valve Cover Screw Retaining Ring	6
10	7.906-010	Rubber Gasket	1	25	7.301-009	Hexagon Bolt	8	39	7.301-025	Valve Cover Screw	6
11	7.906-001.4	Connecting Rod	3	26	7.906-011	Side Cover	1	40	7.906-145	Double-Sided Toothed Washer	8
12	7.906-033	Plunger Pin	3	27	7.906-006	Oil Seal	1	41	7.301-039	Pump Head Screw	8
13	7.906-002.4	Plunger Rod	3	28	7.906-011	Crankcase	1	42	7.906-056.1	Retaining Ring	3
14	7.906-133	Water Seal Washer	3	29	7.906-006.1	Crankcase Oil Seal	3	43	7.906-012.1	Copper Washer	3
15	7.906-003.8	Ceramic Plunger	3								

REPAIR KITS

Water Seal Kit		
Index	32	34
Part Number	7.906-358	7.906-363
Name	Low Pressure Water Seal	High Pressure Water Seal
Quantity	3	3

Oil Seal Kit		
Index	27	29
Part Number	7.906-006	7.906-006.1
Name	Oil Seal	Crankcase Oil Seal
Quantity	1	3

Valve Kit		
Index	35	36
Part Number	7.906-055.1	7.906-109
Name	Valve O-Ring	Valve
Quantity	6	6

Plunger Kit			
Index	15	16	42
Part Number	7.906-003.8	7.906-005	7.906-056.1
Name	Ceramic Plunger	Plunger Rod O-Ring	Retaining Ring
Quantity	3	3	3

FCK Series

NICKEL PLATED BRASS PUMP



Soild Shaft Ø24mm

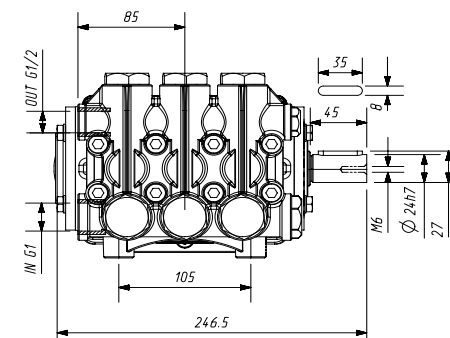
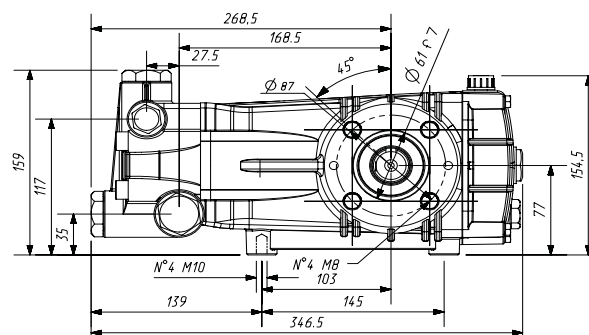
SPECIFICATIONS

Pump Model	FCK 2135	FCK 3020	FCK 3030	FCK 4025	FCK 5020	FCK 3620	FCK4819	FCK 6018
Flow Rate (L/min)	21	30	30	40	50	36	48	60
Pressure (bar)	350	200	300	250	200	200	190	180
Power (kw)	15	12	18	20	20	14.4	24	24
RPM	1450	1450	1450	1450	1450	1750	1750	1750
Shaft Diameter (mm)	24							
Plunger Stroke (mm)	14	19	19	15.5	19	19	15.5	19
Plunger Diameter (mm)	22	22	22	28	28	22	28	28
Oil Capacity (ml)	1100							
Inlet Thread	G 1/2							
Outlet Thread	G 3/8							
Weight (kg)	17.5							
Dimensions (mm)	347X247X159							

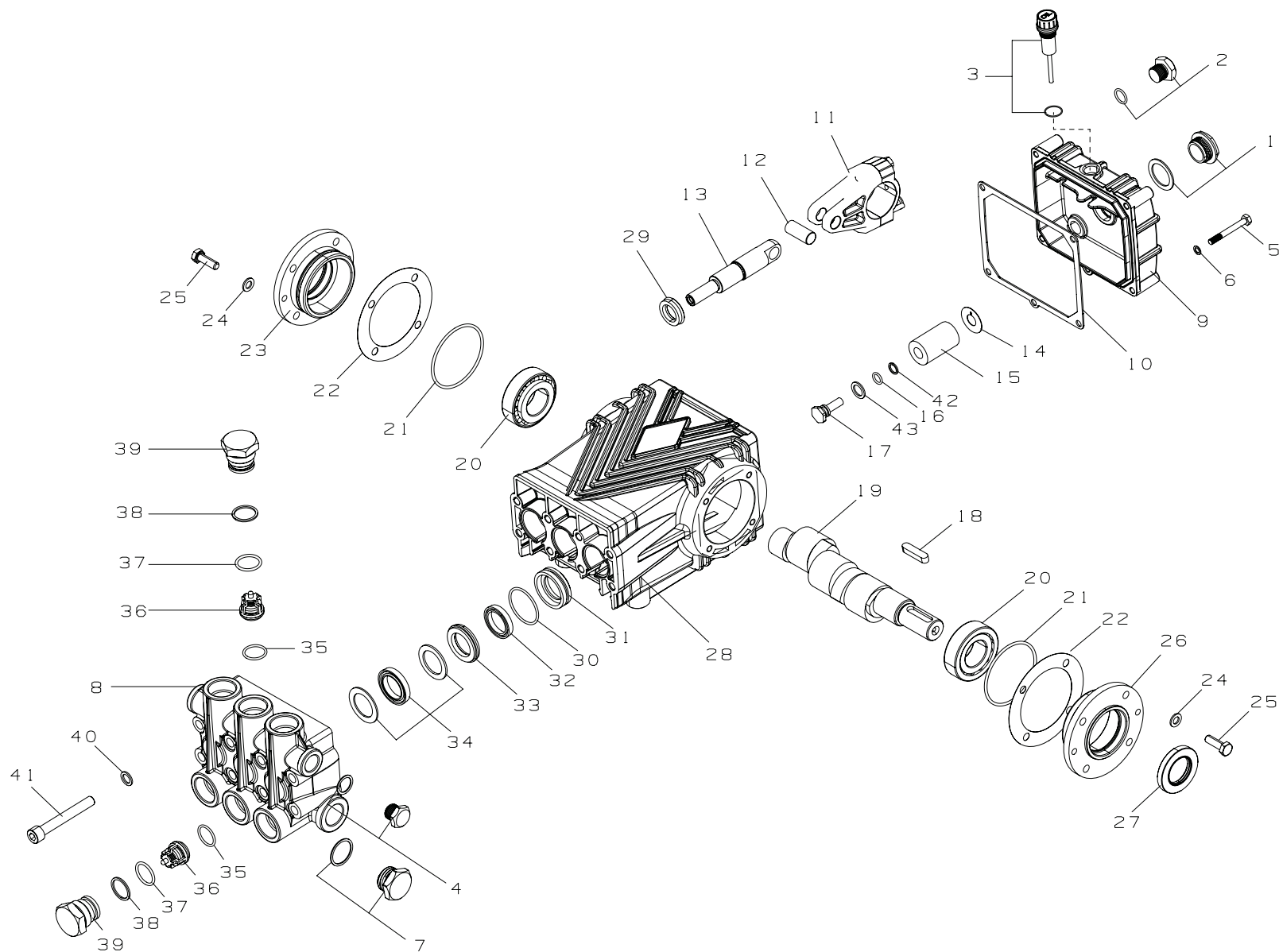
FEATURES

- High-flow nickel-plated brass pump head provides structural strength and improved corrosion resistance for continuous operation.
- Forged crankshaft with surface nitriding improves strength and wear resistance.
- Low-friction alloy connecting rod supports high load capacity.
- Tapered roller bearings improve load capability and durability.
- Ceramic plungers with smooth surface finish for long service life.

DIMENSIONS(mm)



EXPLODED VIEW



COMPONENTS

ITEM	PART NO.	Name	QTY	ITEM	PART NO.	Name	QTY	ITEM	PART NO.	Name	QTY
1	7.906-160	Oil Sight Glass	1	16	7.906-005	Plunger Rod O-Ring	3	30	7.906-055	Guide Seat O-Ring	3
2	7.400-011.1	Plug	1	17	7.906-002.4	Plunger Rod Nut	3	31	7.906-040.5	Guide Seat	3
3	7.906-034	Dipstick	1	18	7.906-035.1	Parallel Key	1	32	7.906-358	Low Pressure Water Seal	3
4	7.400-001.2	Plug	1	19	7.906-025.3	Crankshaft	1	33	7.906-110	Copper Pressure Ring	3
5	7.301-008	Hexagon Bolt	5	20	7.906-014	Tapered Roller Bearings	2	34	7.906-363	High Pressure Water Seal	3
6	7.906-146	Double-Sided Toothed Washer	5	21	7.906-005.3	End Cap O-Ring	2	35	7.906-055.1	Valve O-Ring	6
7	7.400-001.1	Plug	1	22	7.906-137.138.139	Adjusting Washer	3	36	7.906-109	Valve	6
8	7.906-077	Nickel-Plated Brass Pump Head	1	23	7.906-011	Side Cover	1	37	7.906-055.2	Valve Cover Screw O-Ring	6
9	7.906-011	Rear Cover	1	24	7.906-022	Double-Sided Toothed Washer	8	38	7.906-056	Valve Cover Screw Retaining Ring	6
10	7.906-010	Rubber Gasket	1	25	7.301-009	Hexagon Bolt	8	39	7.301-025	Valve Cover Screw	6
11	7.906-001.4	Connecting Rod	3	26	7.906-011	Side Cover	1	40	7.906-145	Double-Sided Toothed Washer	8
12	7.906-033	Plunger Pin	3	27	7.906-006	Oil Seal	1	41	7.301-039	Pump Head Screw	8
13	7.906-002.4	Plunger Rod	3	28	7.906-011	Crankcase	1	42	7.906-056.1	Retaining Ring	3
14	7.906-133	Water Seal Washer	3	29	7.906-006.1	Crankcase Oil Seal	3	43	7.906-012.1	Copper Gasket	3
15	7.906-003.8	Ceramic Plunger	3								

REPAIR KITS

Water Seal Kit		
Index	32	34
Part Number	7.906-358	7.906-363
Name	Low Pressure Water Seal	High Pressure Water Seal
Quantity	3	3

Oil Seal Kit		
Index	27	29
Part Number	7.906-006	7.906-006.1
Name	Oil Seal	Crankcase Oil Seal
Quantity	1	3

Valve Kit		
Index	35	36
Part Number	7.906-055.1	7.906-109
Name	Valve O-Ring	Valve
Quantity	6	6

Plunger Kit			
Index	15	16	42
Part Number	7.906-003.8	7.906-005	7.906-056.1
Name	Ceramic Plunger	Plunger Rod O-Ring	Retaining Ring
Quantity	3	3	3

FCR Series

BRASS PUMP



Soild Shaft Ø24mm

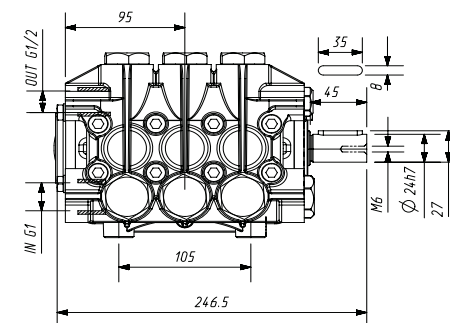
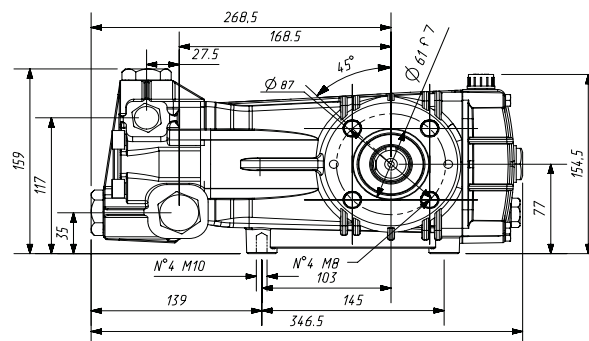
SPECIFICATIONS

Pump Model	FCR 6017	FCR 7016	FCR 7217	FCR 8416
Flow Rate (L/min)	60	70	72	84
Pressure (bar)	170	160	170	160
Power (kw)	20.4	22.4	24.5	26.8
RPM	1450	1450	1750	1750
Shaft Diameter (mm)	24			
Plunger Stroke (mm)	20	23.5	19	23.5
Plunger Diameter (mm)	30			
Oil Capacity (ml)	1100			
Inlet Thread	G 1			
Outlet Thread	G 1/2			
Weight (kg)	19.5			
Dimensions (mm)	347X247X159			

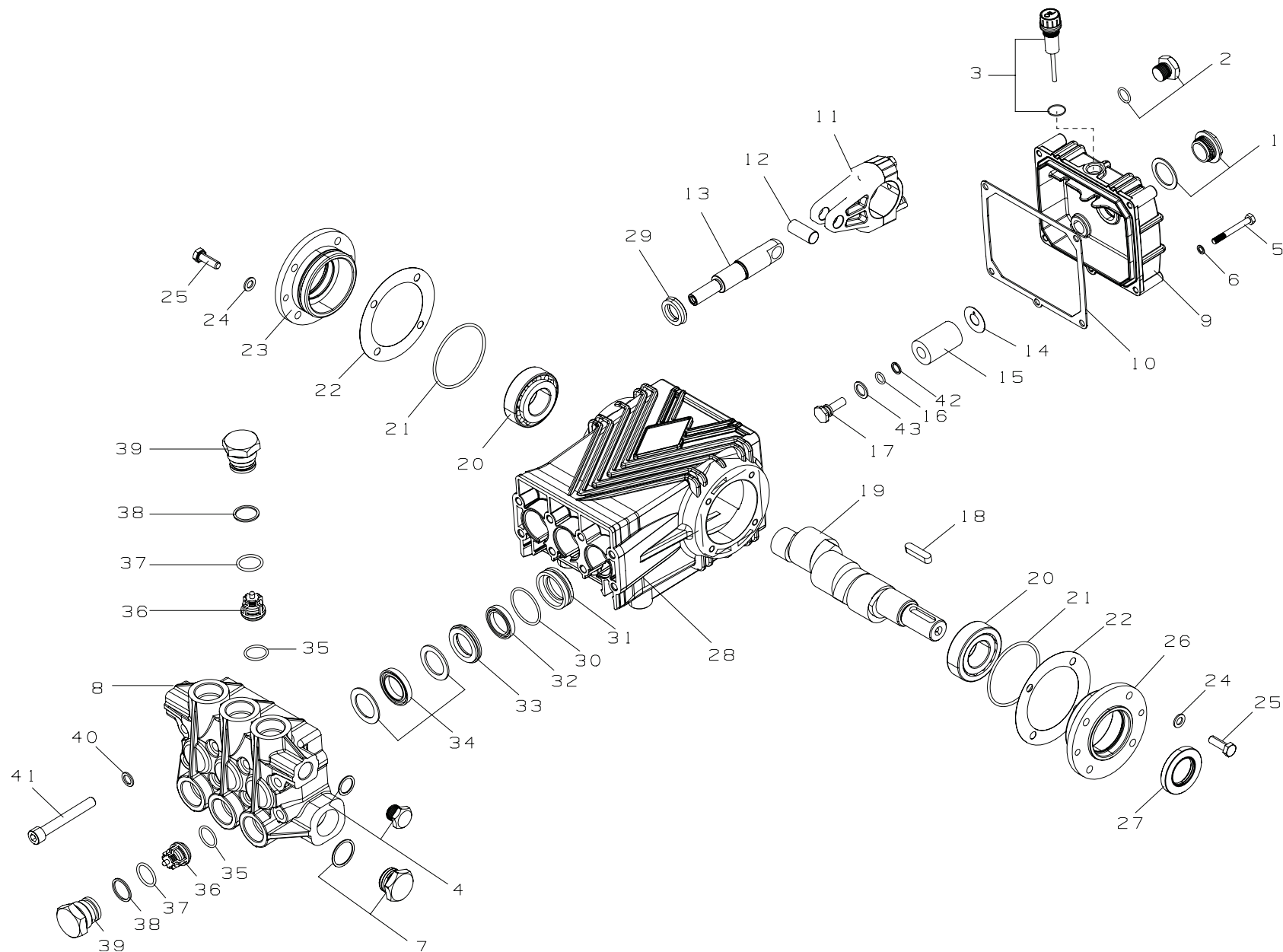
FEATURES

- High-flow brass pump head provides structural strength and rust resistance for continuous operation.
- Forged crankshaft with surface nitriding improves strength and wear resistance.
- Low-friction alloy connecting rod supports high load capacity.
- Tapered roller bearings improve load capability and durability.
- Ceramic plungers with smooth surface finish for long service life.

DIMENSIONS(mm)



EXPLODED VIEW



COMPONENTS

ITEM	PART NO.	Name	QTY	ITEM	PART NO.	Name	QTY	ITEM	PART NO.	Name	QTY
1	7.906-160	Oil Sight Glass	1	16	7.906-005	Plunger Rod O-Ring	3	30	7.906-055	Guide Seat O-Ring	3
2	7.400-011.1	Plug	1	17	7.906-002.4	Plunger Rod Nut	3	31	7.906-040.5	Guide Seat	3
3	7.906-034	Dipstick	1	18	7.906-035.1	Water Seal Washer	1	32	7.906-358	Low Pressure Water Seal	3
4	7.400-001.2	Plug	1	19	7.906-025.3	Crankshaft	1	33	7.906-110	Copper Pressure Ring	3
5	7.301-008	Hexagon Bolt	5	20	7.906-014	Tapered Roller Bearings	2	34	7.906-363	High Pressure Water Seal	3
6	7.906-146	Double-Sided Toothed Washer	5	21	7.906-005.3	End Cap O-Ring	2	35	7.906-055.1	Valve O-Ring	6
7	7.400-001.1	Plug	1	22	7.906-137.138.139	Adjusting Washer	3	36	7.906-109	Valve	6
8	7.906-077	Brass Pump Head	1	23	7.906-011	Side Cover	1	37	7.906-055.2	Valve Cover Screw O-Ring	6
9	7.906-011	Rear Cover	1	24	7.906-022	Double-Sided Toothed Washer	8	38	7.906-056	Valve Cover Screw Retaining Ring	6
10	7.906-010	Rubber Gasket	1	25	7.301-009	Hexagon Bolt	8	39	7.301-025	Valve Cover Screw	6
11	7.906-001.4	Connecting Rod	3	26	7.906-011	Side Cover	1	40	7.906-145	Double-Sided Toothed Washer	8
12	7.906-033	Plunger Pin	3	27	7.906-006	Oil Seal	1	41	7.301-039	Pump Head Screw	8
13	7.906-002.4	Plunger Rod	3	28	7.906-011	Crankcase	1	42	7.906-056.1	Retaining Ring	3
14	7.906-133	Water Seal Washer	3	29	7.906-006.1	Crankcase Oil Seal	3	43	7.906-012.1	Copper Washer	3
15	7.906-003.8	Ceramic Plunger	3								

REPAIR KITS

Water Seal Kit		
Index	32	34
Part Number	7.906-358	7.906-363
Name	Low-Pressure Water Seal	High-Pressure Water Seal
Quantity	3	3

Oil Seal Kit		
Index	27	29
Part Number	7.906-006	7.906-006.1
Name	Oil Seal	Crankcase Oil Seal
Quantity	1	3

Valve Kit		
Index	35	36
Part Number	7.906-055.1	7.906-109
Name	Valve O-Ring	Valve
Quantity	6	6

Plunger Kit			
Index	15	16	42
Part Number	7.906-003.8	7.906-005	7.906-056.1
Name	Ceramic Plunger	Plunger Rod O-Ring	Retaining Ring
Quantity	3	3	3

FCM Series

NICKEL PLATED BRASS PUMP



Soild Shaft Ø24mm

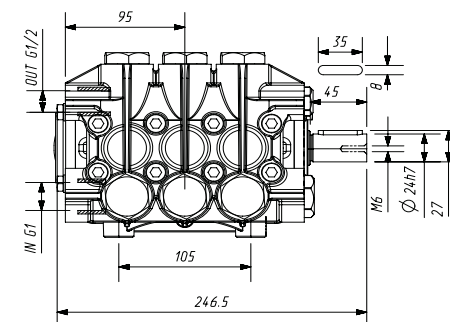
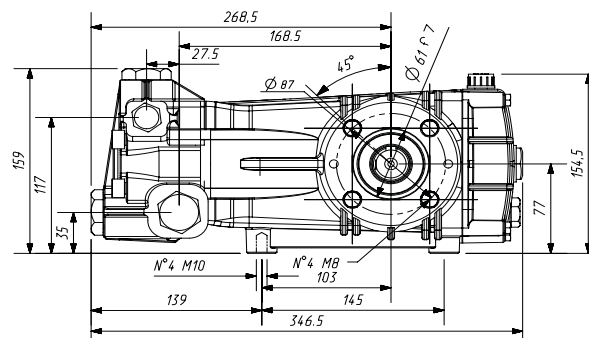
SPECIFICATIONS

Pump Model	FCM 6017	FCM 7016	FCM 7217	FCM 8416
Flow Rate (L/min)	60	70	72	84
Pressure (bar)	170	160	170	160
Power (kw)	20.4	22.4	24.5	26.8
RPM	1450	1450	1750	1750
Shaft Diameter (mm)	24			
Plunger Stroke (mm)	20	23.5	19	23.5
Plunger Diameter (mm)	30			
Oil Capacity (ml)	1100			
Inlet Thread	G 1			
Outlet Thread	G 1/2			
Weight (kg)	19.5			
Dimensions (mm)	347X247X159			

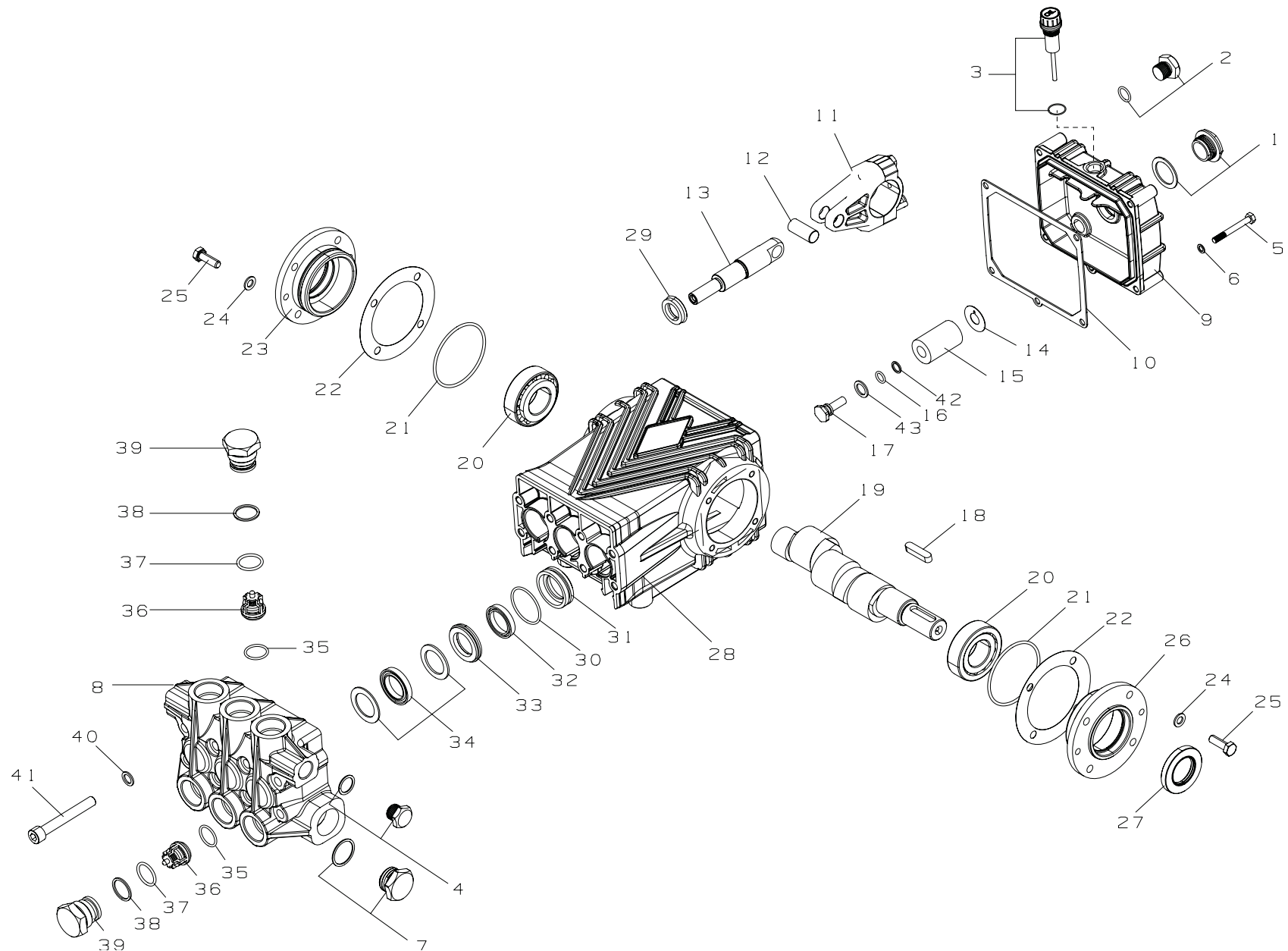
FEATURES

- High-flow nickel-plated brass pump head provides structural strength and improved corrosion resistance for continuous operation.
- Forged crankshaft with surface nitriding improves strength and wear resistance.
- Low-friction alloy connecting rod supports high load capacity.
- Tapered roller bearings improve load capability and durability.
- Ceramic plungers with smooth surface finish for long service life.

DIMENSIONS(mm)



EXPLODED VIEW



COMPONENTS

ITEM	PART NO.	Name	QTY	ITEM	PART NO.	Name	QTY	ITEM	PART NO.	Name	QTY
1	7.906-160	Oil Sight Glass	1	16	7.906-005	Plunger Rod O-Ring	3	30	7.906-145	Guide Seat O-Ring	3
2	7.400-011.1	Plug	1	17	7.906-002.4	Plunger Rod Nut	3	31	7.906-208	Guide Seat	3
3	7.906-034	Dipstick	1	18	7.906-035.1	Parallel Key	1	32	7.906-350	Low Pressure Water Seal	3
4	7.400-001.2	Plug	1	19	7.906-182	Crankshaft	1	33	7.906-209	Copper Pressure Ring	3
5	7.301-008	Hexagon Bolt	5	20	7.906-014	Tapered Roller Bearings	2	34	7.906-351	High Pressure Water Seal	3
6	7.906-146	Double-Sided Toothed Washer	5	21	7.906-005.3	End Cap O-Ring	2	35	7.906-055.1	Valve O-Ring	6
7	7.906-168	Plug	1	22	7.906-137.138.139	Adjusting Washer	3	36	7.906-109	Valve	6
8	7.906-214	Nickel-Plated Brass Pump Head	1	23	7.906-011	Side Cover	1	37	7.906-055.2	Valve Cover Screw O-Ring	6
9	7.906-011	Rear Cover	1	24	7.906-022	Double-Sided Toothed Washer	8	38	7.906-056	Valve Cover Screw Retaining Ring	6
10	7.906-010	Rubber Gasket	1	25	7.301-009	Hexagon Bolt	8	39	7.301-025	Valve Cover Screw	6
11	7.906-001.4	Connecting Rod	3	26	7.906-011	Side Cover	1	40	7.906-145	Double-Sided Toothed Gasket	8
12	7.906-033	Plunger Pin	3	27	7.906-006	Oil Seal	1	41	7.301-039	Pump Head Screw	8
13	7.906-002.4	Plunger Rod	3	28	7.906-011	Crankcase	1	42	7.906-056.1	Retaining Ring	3
14	7.906-133	Water Seal Washer	3	29	7.906-006.1	Crankcase Oil Seal	3	43	7.906-012.1	Copper Washer	3
15	7.906-163	Ceramic Plunger	3								

REPAIR KITS

Water Seal Kit		
Index	32	34
Part Number	7.906-350	7.906-351
Name	Low Pressure Water Seal	High Pressure Water Seal
Quantity	3	3

Oil Seal Kit		
Index	27	29
Part Number	7.906-006	7.906-006.1
Name	Oil Seal	Crankcase Oil Seal
Quantity	1	3

Valve Kit		
Index	35	36
Part Number	7.906-055.1	7.906-109
Name	Valve O-Ring	Valve
Quantity	6	6

Plunger Kit			
Index	15	16	42
Part Number	7.906-163	7.906-005	7.906-056.1
Name	Ceramic Plunger	Plunger Rod O-Ring	Retaining Ring
Quantity	3	3	3

FCL Series

STAINLESS STEEL PUMP



Soild Shaft Ø24mm

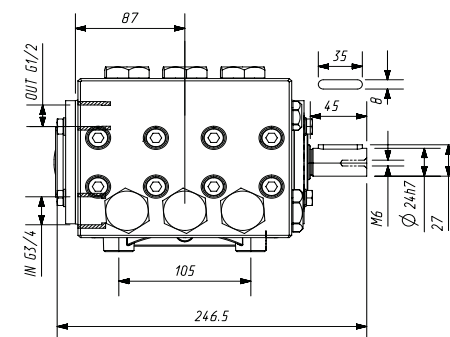
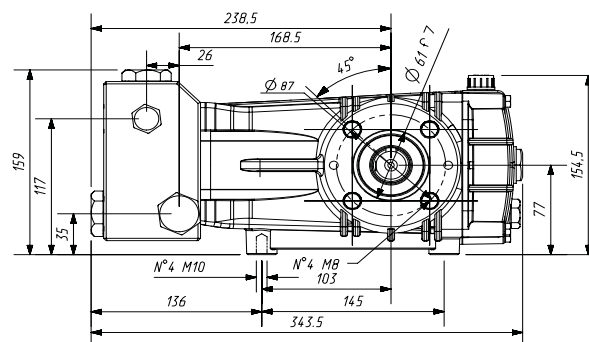
SPECIFICATIONS

Pump Model	FCL 3030	FCL4025	FCL 5020	FCL 6018	FCL 3630	FCL4825	FCL 6020	FCL 7218
Flow Rate (L/min)	30	40	50	60	36.2	48	60.3	72.4
Pressure (bar)	300	250	200	180	300	250	200	180
Power (kw)	18	20	20	21.6	21.7	24	24	26.1
RPM	1450	1450	1450	1450	1750	1750	1750	1750
Shaft Diameter (mm)	24							
Plunger Stroke (mm)	11.5	15.5	19	23.5	11.5	15.5	19	23.5
Plunger Diameter (mm)	28							
Oil Capacity (ml)	1100							
Inlet Thread	G 3/4							
Outlet Thread	G 1/2							
Weight (kg)	16.8							
Dimensions (mm)	347X247X159							

FEATURES

- High-flow stainless-steel pump head provides structural strength and corrosion resistance for continuous operation.
- Forged crankshaft with surface nitriding improves strength and wear resistance.
- Low-friction alloy connecting rod supports high load capacity.
- Tapered roller bearings improve load capability and durability.
- Ceramic plungers with smooth surface finish for long service life.

DIMENSIONS(mm)



EXPLODED VIEW



COMPONENTS

ITEM	PART NO.	Name	QTY	ITEM	PART NO.	Name	QTY	ITEM	PART NO.	Name	QTY
1	7.906-160	Oil Sight Glass	1	16	7.906-005	Plunger Rod O-Ring	3	30	7.906-055	Guide Seat O-Ring	3
2	7.400-011.1	Plug	1	17	7.906-002.4	Plunger Rod Nut	3	31	7.906-040.5	Guide Seat	3
3	7.906-034	Dipstick	1	18	7.906-035	Parallel Key	1	32	7.906-358	Low Pressure Water Seal	3
4	7.400-011	Plug	1	19	7.906-025.8	Crankshaft	1	33	7.906-110	Copper Pressure Ring	3
5	7.301-008	Hexagon Bolt	5	20	7.906-014	Tapered Roller Bearings	2	34	7.906-363	High Pressure Water Seal	3
6	7.906-146	Double-Sided Toothed Washer	5	21	7.906-005.3	End Cap O-Ring	2	35	7.906-055.1	Valve O-Ring	6
7	7.400-001.1	Plug	1	22	7.906-137.138.139	Adjusting Washer	3	36	7.906-109	Valve	6
8	7.906-108	Stainless Steel Pump Head	1	23	7.906-011	Side Cover	1	37	7.906-055.2	Valve Cover Screw O-Ring	6
9	7.906-011	Rear Cover	1	24	7.906-022	Double-Sided Toothed Washer	8	38	7.906-056	Valve Cover Screw Retaining Ring	6
10	7.906-010	Rubber Gasket	1	25	7.301-009	Hexagon Bolt	8	39	7.301-025	Valve Cover Screw	6
11	7.906-001.4	Connecting Rod	3	26	7.906-011	Side Cover	1	40	7.906-145	Double-Sided Toothed Washer	8
12	7.906-033	Plunger Pin	3	27	7.906-006	Oil Seal	1	41	7.301-039	Pump Head Screw	8
13	7.906-002.4	Plunger Rod	3	28	7.906-011	Crankcase	1	42	7.906-056.1	Retaining Ring	3
14	7.906-133	Water Seal Washer	3	29	7.906-006.1	Crankcase Oil Seal	3	43	7.906-012.1	Copper Washer	3
15	7.906-003.8	Ceramic Plunger	3								

REPAIR KITS

Water Seal Kit		
Index	32	34
Part Number	7.906-358	7.906-363
Name	Low Pressure Water Seal	High Pressure Water Seal
Quantity	3	3

Oil Seal Kit		
Index	27	29
Part Number	7.906-006	7.906-006.1
Name	Oil Seal	Crankcase Oil Seal
Quantity	1	3

Valve Kit		
Index	35	36
Part Number	7.906-055.1	7.906-109
Name	Valve O-Ring	Valve
Quantity	6	6

Plunger Kit			
Index	15	16	42
Part Number	7.906-003.8	7.906-005	7.906-056.1
Name	Ceramic Plunger	Plunger Rod O-Ring	Retaining Ring
Quantity	3	3	3

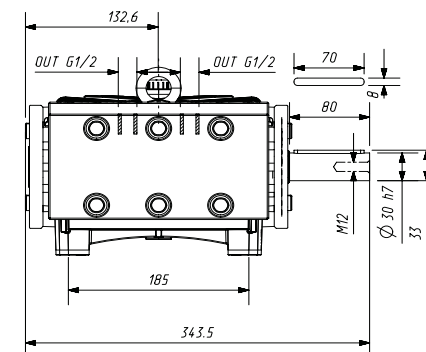
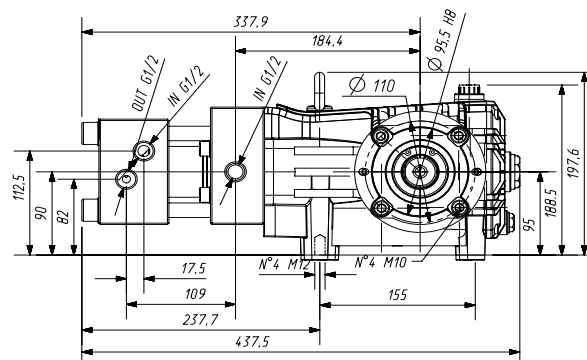
The logo for FUSSEN, featuring a stylized 'F' icon followed by the word 'FUSSEN' in a bold, sans-serif font, with a registered trademark symbol (®) to the upper right.

FEATURES

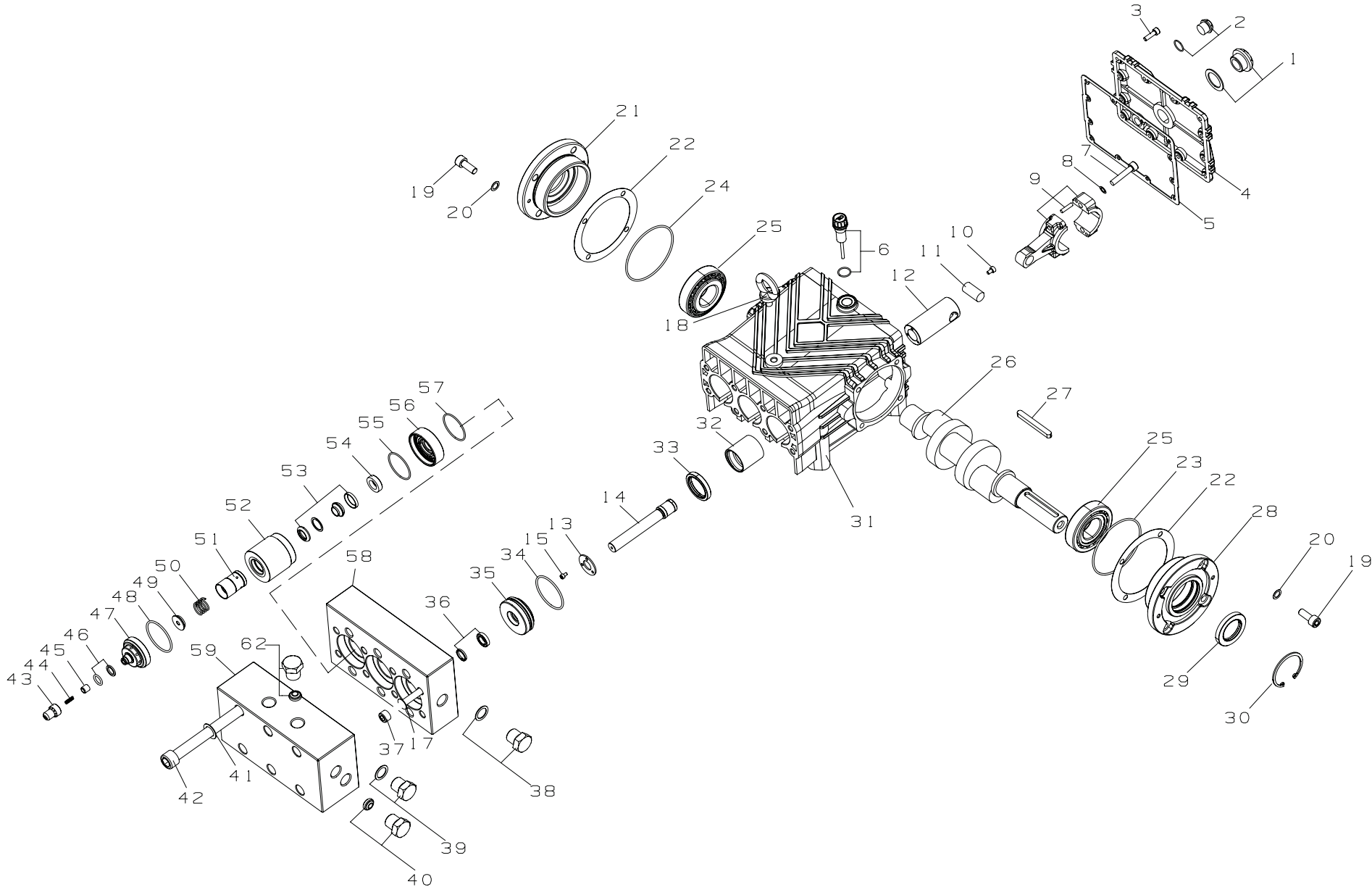
- High-strength stainless-steel pump head provides structural strength and corrosion resistance.
- Forged crankshaft with surface nitriding improves strength and wear resistance.
- The connecting rods are made of a Zn–Cu alloy, improving wear resistance and helping reduce operating noise.
- Tapered roller bearings improve load capability and durability.
- Tungsten-carbide plungers with wear-resistant coating provide high strength and extended service life.

Pump Model	FDH 15100	FDH 1880	FDH 18100	FDH 2080
Flow Rate (L/min)	15	18	18	20
Pressure (bar)	1000	800	1000	800
Power (kw)	28.8	27.7	30.8	30.8
RPM	1450	1450	1750	1750
Shaft Diameter (mm)				
Plunger Stroke (mm)	20.5	22	17	20.5
Plunger Diameter (mm)	16	16	16	16
Oil Capacity (ml)	1700			
Inlet Thread	G 1/2			
Outlet Thread	G 1/2			
Weight (kg)	42			
Dimensions (mm)	438x344x198			

DIMENSIONS(mm)



EXPLODED VIEW



COMPONENTS

ITEM	PART NO.	Name	QTY	ITEM	PART NO.	Name	QTY	ITEM	PART NO.	Name	QTY
1	7.906-160	Oil Sight Glass	1	22	7.906-048	Bearing Adjustment Shim	1	42	7.301-038	Stud	8
2	7.400-011	Plug	1	23	7.906-019.9	End Cover Seal	1	43	7.906-122	Discharge Valve Seat	3
3	7.301-007	Rear Cover Screws	12	24	7.906-019.9	End Cover Seal	1	44	7.906-143	Discharge Valve Spring	3
4	7.906-011.4	Rear Cover	1	25	7.906-014.3	Bearing	1	45	7.906-066	Discharge Valve Disc	3
5	7.906-010.3	Rear Cover Oil Washer	1	26	7.906-426	Crankshaft	2	46	7.906-052.2	Discharge Valve Seal	3
6	7.906-034	Dipstick	1	27	7.906-150	Parallel Key	1	47	7.906-099	Valve Body	3
7	7.301-020	Connecting Rod Screws	6	28	7.906-011.4	Side Cover	1	48	7.906-049.6	Packing Sleeve Seal Ring	3
8	7.301-031	Connecting Rod Screws Washers	6	29	7.906-051.3	Rotating Oil Seal	1	49	7.906-100	Suction Valve Disc	3
9	7.301-014	Copper Connecting Rod	6	30	7.301-035	Rotating Oil Seal Circlip	1	50	7.906-142	Suction Valve Spring	3
10	7.301-017	Plunger Rod Screw	6	31	7.906-011.4	Crankcase	1	51	7.906-779	Bushing	3
11	7.906-033.4	Plunger Rod Pin	3	32	7.906-079	Crankcase Copper Sleeve	1	52	7.906-093	Packing Sleeve	3
12	7.906-002.6	Plunger Rod	3	33	7.906-051.4	Crankcase Oil Seal	3	53	7.906-052	Packing	3
13	7.906-091	Plunger Retainer	3	34	7.906-049.9	Guide Seat Seal Ring	3	54	7.906-102	High Pressure Seal Seat	3
14	7.906-090	Plunger	3	35	7.906-097	Guide Seat	3	55	7.906-055.3	End Cover Seal Ring	3
15	7.301-029	Plunger Retainer Screw	9	36	7.906-347	Low Pressure Water Seal	3	56	7.906-094	End Cove	3
17	7.906-145	Double-Sided Toothed Washer	8	37	7.301-039	Stud	3	57	7.906-055.3	End Cover Seal Ring	3
18	7.301-016	Hanging Ring	1	38	7.400-001.2	Plug	8	58	7.906-095	Back Plate	1
19	7.301-023	End Cap Screws	8	39	7.400-001.2	Plug	1	59	7.906-096	Pump Head	1
20	7.906-145	End Cover Screws And Gaskets	8	40	7.906-166	Plug	1	62	7.906-166	Plug	2
21	7.906-011.4	Side Cover	1	41	7.906-149	Flat Washer	1				

REPAIR KITS

Water Seal Kit			Valve Kit								
Index	36	53	Index	43	44	45	46	47	48	49	55
Part Number	7.906-036.14.15	7.906-052	Part Number	7.906-122	7.906-143	7.906-066	7.906-052.2	7.906-099	7.906-049.6	7.906-100	7.906-055.3
Name	Low-Pressure Water Seal	Packing	Name	Discharge Valve Seat	Discharge Valve Spring	Discharge Valve Disc	Discharge Valve Seal	Valve Body	Packing Cylinder O-ring	Suction Valve Disc	End Cover Seal Rin
Quantity	3	3	Quantity	3	3	3	3	3	3	3	3

Oil Seal Kit			Plunger Kit	
Index	29	33	Index	14
Part Number	7.906-051.3	7.906-051.4	Part Number	7.906-090
Name	Rotating Oil Seal	Crankcase Oil Seal	Name	Plunger
Quantity	1	3	Quantity	3

FDK Series

STAINLESS STEEL PUMP



Soild Shaft Ø30mm

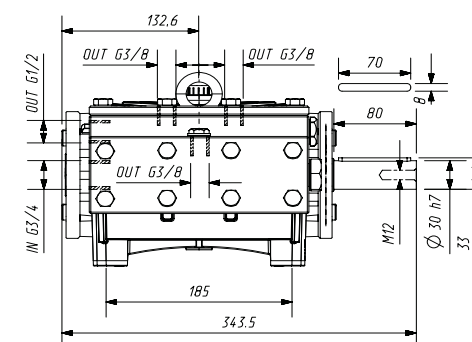
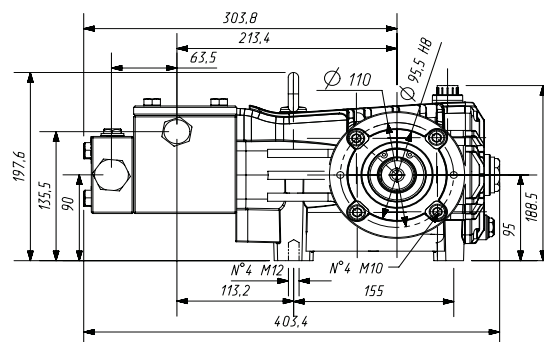
SPECIFICATIONS

Pump Model	FDK 3050	FDK 4035	FDK 5030	FDK 5525	FDK 3650	FDK 4835	FDK 6030	FDK 6625
Flow Rate (L/min)	30	40	50	55	36	48	60	66
Pressure (bar)	500	350	300	250	500	350	300	250
Power (kw)	28.8	28	30	27.5	36	33.5	36	33
RPM	1450	1450	1450	1450	1750	1750	1750	1750
Shaft Diameter (mm)	30							
Plunger Stroke (mm)	24.2	30	30	34	24.2	30	30	34
Plunger Diameter (mm)	20	20	22	22	20	20	22	22
Oil Capacity (ml)	1700							
Inlet Thread	G 3/4							
Outlet Thread	G 1/2							
Weight (kg)	38.5							
Dimensions (mm)	404x344x189							

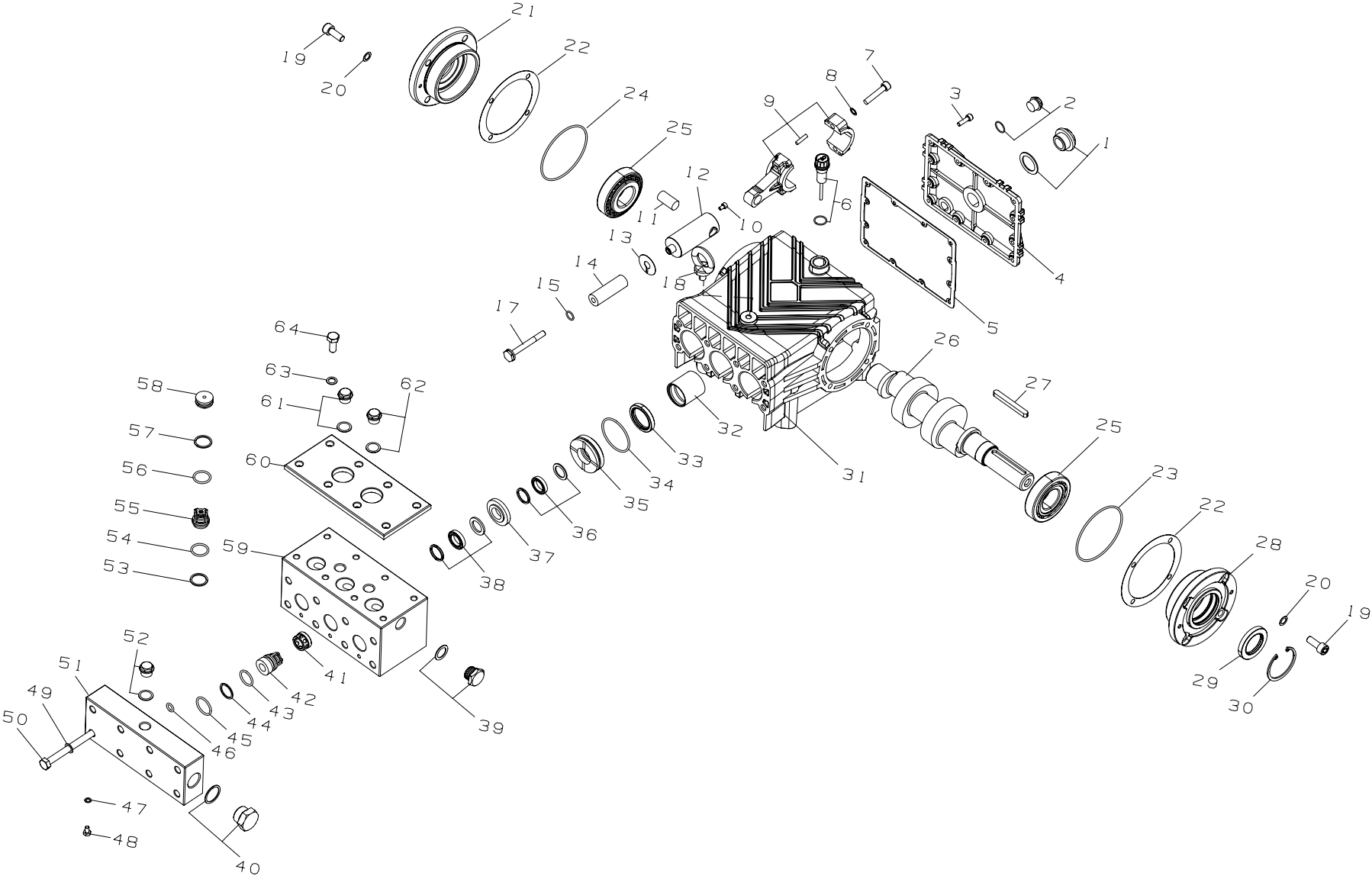
FEATURES

- Stainless-steel high-flow pump head provides corrosion resistance and stability for high-flow operation.
- Forged crankshaft with surface nitriding improves strength and wear resistance.
- The connecting rod is made of a Zn–Cu alloy, improving wear resistance and helping reduce operating noise.
- Tapered roller bearings improve load capability and durability.
- Ceramic plungers with smooth surface finish for long service life.

DIMENSIONS(mm)



EXPLODED VIEW



COMPONENTS

ITEM	PART NO.	Name	QTY	ITEM	PART NO.	Name	QTY	ITEM	PART NO.	Name	QTY
1	7.906-160	Oil Sight Glass	1	23	7.906-019.9	End Cover Seal	2	44	7.906-050	Inlet Valve Retaining Ring	3
2	7.400-011.1	Plug	1	24	7.906-019.9	End Cover Seal	2	45	7.906-049.1	Inlet Plate Sealing Ring	3
3	7.301-007	Rear Cover Screws	12	25	7.906-014.3	Bearing	2	46	7.906-005.1	Cooling Water Sealing Ring	3
4	7.906-011.4	Rear Cover	1	26	7.906-025.19	Crankshaft	1	47	7.906-046	Stainless Steel Gasket	3
5	7.906-010.3	Rear Cover Oil Washer	1	27	7.906-150	Parallel Key	1	48	7.301-011	Cooling Water Screw	3
6	7.906-034	Dipstick	1	28	7.906-011.4	Side Cover	1	49	7.906-145	Double-Sided Toothed Washer	8
7	7.301-020	Connecting Rod Screws	6	29	7.906-051.3	Rotating Oil Seal	1	50	7.301-026	Stud	8
8	7.301-031	Connecting Rod Screws Washers	6	30	7.301-035	Rotating Oil Seal Circlip	1	51	7.906-077	Water Inlet Cover	1
9	7.906-001.6	Copper Connecting Rod	3	31	7.906-011.4	Crankcase	1	52	7.400-011	Plug	1
10	7.301-017	Plunger Rod Screw	6	32	7.906-079	Crankcase Copper Sleeve	3	53	7.906-050	High Pressure Valve Retaining Ring	3
11	7.906-033.4	Plunger Rod Pin	3	33	7.906-051.4	Crankcase Oil Seal	3	54	7.906-049.4	High Pressure Valve Seal	3
12	7.906-002.6	Plunger Rod	3	34	7.906-049.9	Guide Seat Seal Ring	3	55	7.906-086	High Pressure Valve	3
13	7.906-129	Water Seal Washer	3	35	7.906-082	Guide Seat	3	56	7.906-049.4	Copper Seat Sealing Ring	3
14	7.906-003.13	Ceramic Plunger	3	36	7.906-036.6	Low Pressure Water Seal	3	57	7.906-050	Copper Seat Retaining Ring	3
15	7.906-049.3	Ceramic Plunger Seal	3	37	7.906-081	Copper Pressure Ring	3	58	7.906-067	Valve Copper Seat	3
16	7.906-043.2	Oil Sight Glass Circlip	1	38	7.906-036.5	High Pressure Water Seal	3	59	7.906-078	Stainless Steel Pump Head	1
17	7.906-075	Ceramic Plunger Screw	3	39	7.400-001.2	Plug	1	60	7.906-083	High Pressure Cover Plate	1
18	7.301-016	Hanging Ring	1	40	7.400-001.1	Plug	1	61	7.400-011	Plug	1
19	7.301-023	End Cap Screws	8	41	7.906-080	Inlet Valve Support Seat	3	62	7.400-011	Plug	1
20	7.906-145	End Cover Screws And Gaskets	8	42	7.906-087	Low-Pressure Valve	3	63	7.906-145	Double-Sided Toothed Washer	8
21	7.906-011.4	Side Cover	1	43	7.906-049.4	Inlet Valve Seal Ring	3	64	7.301-023	Screw	8
22	7.906-048	Bearing Adjustment Shim	1								

REPAIR KITS

Water Seal Kit		
Index	36	38
Part Number	7.906-036.6	7.906-036.5
Name	Low Pressure Water Seal	High Pressure Water Seal
Quantity	3	3

Oil Seal Kit		
Index	29	33
Part Number	7.906-051.3	7.906-051.4
Name	Rotating Oil Seal	Crankcase Oil Seal
Quantity	1	3

Valve Kit						
Index	42	43	44	53	54	55
Part Number	7.906-087	7.906-049.4	7.906-050	7.906-050	7.906-049.4	7.906-086
Name	Low Pressure Valve	Inlet Valve Seal Ring	Inlet Valve Retaining Ring	High Pressure Valve Retaining Ring	High Pressure Valve Seal	High Pressure Valve
Quantity	3	3	3	3	3	3

Plunger Kit	
Index	14
Part Number	7.906-003.13
Name	Ceramic Plunger
Quantity	3

FDL Series

STAINLESS STEEL PUMP



Soild Shaft Ø30mm

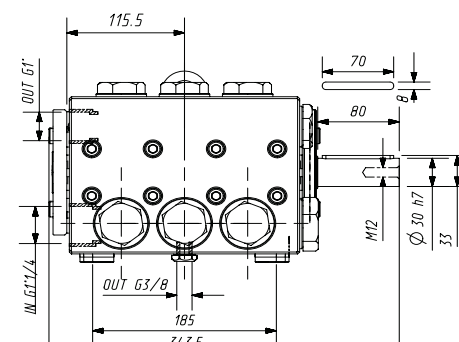
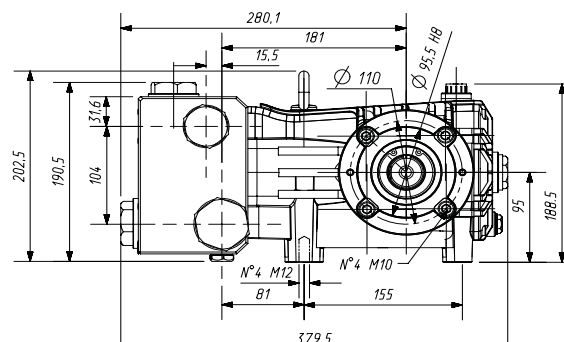
SPECIFICATIONS

Pump Model	FDL 10015	FDL 12013	FDL 15010	FDL 6915	FDL 8213	FDL 10310
Flow Rate (L/min)	100	120	150	69	82.8	103
Pressure (bar)	150	130	100	150	130	100
Power (kw)	28.8	30	28.8	19.9	20.7	19.9
RPM	1450	1450	1450	1000	1000	1000
Shaft Diameter (mm)	30					
Plunger Stroke (mm)	22	28	34	23	28	34
Plunger Diameter (mm)	36	36	36	36	36	36
Oil Capacity (ml)	1700					
Inlet Thread	G 1"1/4					
Outlet Thread	G 1"					
Weight (kg)	39.5					
Dimensions (mm)	380x344x189					

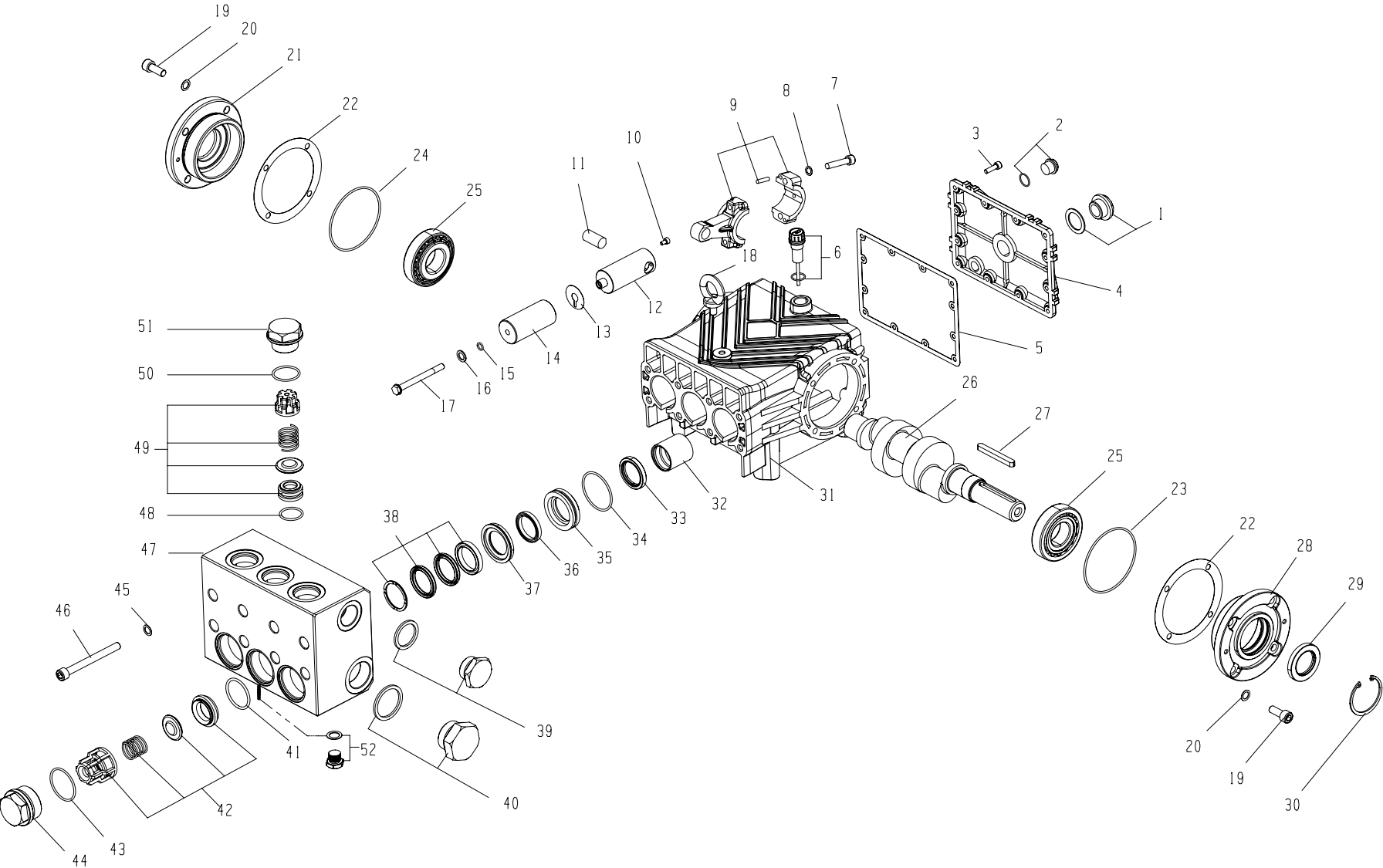
FEATURES

- Stainless-steel high-flow pump head provides corrosion resistance and stability for high-flow operation.
- Forged crankshaft with surface nitriding improves strength and wear resistance.
- The connecting rod is made of a Zn–Cu alloy, improving wear resistance and helping reduce operating noise.
- Tapered roller bearings improve load capability and durability.
- Ceramic plungers with smooth surface finish for long service life.

DIMENSIONS(mm)



EXPLODED VIEW



COMPONENTS

ITEM	PART NO.	Name	QTY	ITEM	PART NO.	Name	QTY	ITEM	PART NO.	Name	QTY
1	7.906-160	Oil Sight Glass	1	19	7.301-023	End Cap Screws	3	36	7.906-370	Low Pressure Water Seal	3
2	7.400-011	Plug	1	20	7.906-145	End Cover Screws And Gaskets	3	37	7.906-059	Copper Pressure Ring	3
3	7.301-007	Rear Cover Screws	12	21	7.906-011.4	Side Cover	3	38	7.906-369	High Pressure Water Seal	3
4	7.906-011.4	Rear Cover	1	22	7.906-048	Bearing Adjustment Shim	1	39	7.906-168	G1" Plug	1
5	7.906-010.3	Rear Cover Oil Washer	1	23	7.906-019.9	End Cover Seal	1	40	7.906-169	G1"1/4 Plug	1
6	7.906-034	Dipstick	1	24	7.906-019.9	End Cover Seal	3	41	7.906-049.11	Inlet Valve Seal Ring	3
7	7.301-020	Connecting Rod Screws	6	25	7.906-014.3	Bearing	3	42	7.906-105	Inlet Valve	3
8	7.301-031	Connecting Rod Screws Washers	6	26	7.906-025.17	Crankshaft	3	43	7.906-049.10	Inlet Valve Gland Sealing Ring	3
9	7.906-001.6	Copper Connecting Rod	6	27	7.906-035.3	Parallel Key	3	44	7.906-107	Inlet Valve Gland	3
10	7.301-017	Plunger Rod Screw	6	28	7.906-011.4	Side Cover	8	45	7.906-145	Double-Sided Toothed Washer	8
11	7.906-033.4	Plunger Rod Pin	3	29	7.906-051.3	Rotating Oil Seal	8	46	7.301-024	Stud	8
12	7.906-002.6	Plunger Rod	3	30	7.301-035	Rotating Oil Seal Circlip	1	47	7.906-058	Stainless Steel Pump Head	1
13	7.906-129	Water Seal Washer	3	31	7.906-011.4	Crankcase	3	48	7.906-049.12	Discharge Valve Seal	3
14	7.906-233	Ceramic Plunger	3	32	7.906-079	Crankcase Copper Sleeve	3	49	7.906-106	Discharge Valve	3
15	7.906-049.14	Ceramic Plunger Seal	3	33	7.906-051.4	Crankcase Oil Seal	3	50	7.906-049.13	Discharge Valve Gland Sealing Ring	3
16	7.906-136	Ceramic Plunger Washer	3	34	7.906-049.9	Guide Seat Seal Ring	3	51	7.906-004	Discharge Valve Gland Screw	3
17	7.301-036	Ceramic Plunger Screw	3	35	7.906-103	Guide Seat	1	52	7.400-011	Plug	1
18	7.301-016	Hanging Ring	1								

REPAIR KITS

Water Seal Kit		
Index	36	38
Part Number	7.906-370	7.906-369
Name	Low Pressure Water Seal	High Pressure Water Seal
Quantity	3	3

Oil Seal Kit		
Index	29	33
Part Number	7.906-051.3	7.906-051.4
Name	Rotating Oil Seal	Crankcase Oil Seal
Quantity	1	3

Valve Kit				
Index	41	42	48	49
Part Number	7.906-049.11	7.906-105	7.906-049.12	7.906-106
Name	Inlet Valve Seal Ring	Inlet Valve	Discharge Valve Seal	Discharge Valve
Quantity	3	3	3	3

Plunger Kit	
Index	14
Part Number	7.906-233
Name	Ceramic Plunger
Quantity	3

FEH Series

STAINLESS STEEL PUMP



Soild Shaft Ø40mm

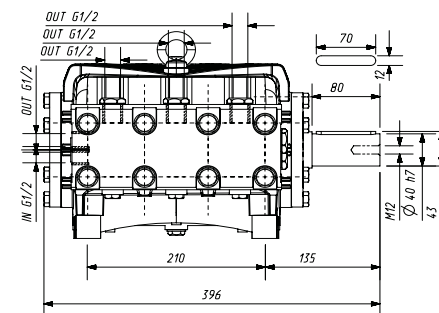
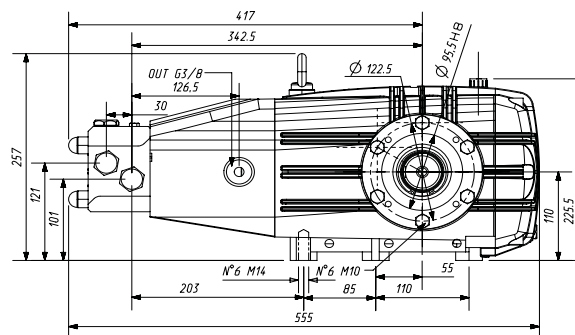
SPECIFICATIONS

Pump Model	FEH 20100	FEH 20120	FEH 25100	FEH 2580
Flow Rate (L/min)	20	20	25	25
Pressure (bar)	1000	1200	1000	800
Power (kw)	38.5	46.2	48.1	38.5
RPM	1000	1000	1000	1000
Shaft Diameter (mm)	40			
Plunger Stroke (mm)	45			
Plunger Diameter (mm)	14	14	16	16
Oil Capacity (ml)	3450			
Inlet Thread	G 1/2			
Outlet Thread	G 1/2			
Weight (kg)	65.5			
Dimensions (mm)	222x396x226			

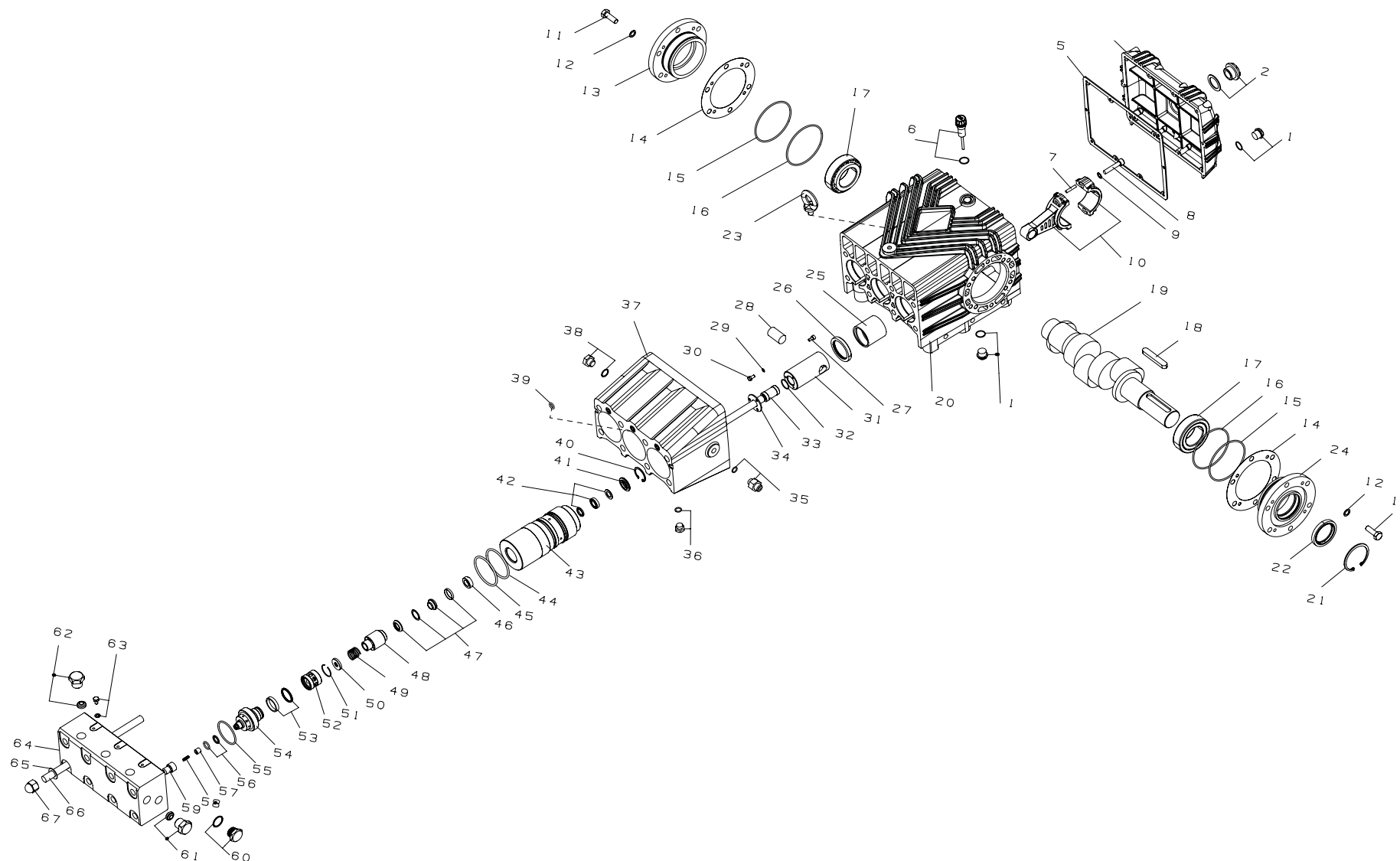
FEATURES

- High-strength stainless-steel pump head provides structural strength and corrosion resistance.
- Forged crankshaft with surface nitriding improves strength and wear resistance.
- The connecting rod is made of a Zn–Cu alloy, improving wear resistance and helping reduce operating noise.
- Tapered roller bearings improve load capability and durability.
- High-strength stainless-steel plungers with wear-resistant coating provide extended service life.

DIMENSIONS(mm)



EXPLODED VIEW



COMPONENTS

ITEM	PART NO.	Name	QTY	ITEM	PART NO.	Name	QTY	ITEM	PART NO.	Name	QTY
1	7.400-011	Plug	2	24	7.906-060.1	Side Cover	1	46	7.906-042.2	Packing Support Ring	3
2	7.906-160	Oil Sight Glass	1	25	7.906-062	Crankcase Copper Sleeve	3	47	7.906-052.1	Packing	3
3	7.301-013	Rear Cover Screw	10	26	7.906-051.2	Crankcase Oil Seal	3	48	7.906-040.6	Guide Seat	3
4	7.906-011.3	Rear Cover	1	27	7.301-045	Plunger Rod Screw	6	49	7.906-142	Suction Valve Spring	3
5	7.906-010.2	Rear Cover Oil Gasket	1	28	7.906-033.3	Plunger Rod Pin	3	50	7.906-065	Suction Valve Disc	3
6	7.903-035	Dipstick	1	29	7.301-033	Plunger Rod Screw Washer	9	51	7.906-141	Suction Valve Circlip	3
7	7.301-014	Connecting Rod Pin	6	30	7.301-045	Plunger Rod Screw	9	52	7.906-065.1	Suction Valve Seat	3
8	7.301-020	Connecting Rod Screw	6	31	7.906-002.5	Plunger Rod	3	53	7.906-052.3	Suction Valve Seal	3
9	7.301-031	Connecting Rod Screw Washer	6	32	7.906-049.8	Plunger Seal	3	54	7.906-065.2	Valve Seat	3
10	7.906-001.2	Copper Connecting Rod	3	33	7.906-063	Plunger	3	55	7.906-049.6	Pump Head Seal	3
11	7.301-015	End Cap Screw	12	34	7.906-063.1	Plunger Gland	3	56	7.906-052.2	Discharge Valve Seal	3
12	7.906-145	End Cover Screw Washer	12	35	7.300-022	Return Water Fitting	1	57	7.906-066	Discharge Valve Disc	3
13	7.906-060	Side Cover	1	36	7.400-001	Transition Plate Lower Plug	3	58	7.906-143	Discharge Valve Spring	3
14	7.906-048	Bearing Adjustment Shim	1	37	7.906-029	Transitional Plate	1	59	7.906-066.1	Discharge Valve Seat	3
15	7.906-019.9	Bearing Seal	2	38	7.400-011	Transitional Plate Side Plug	1	60	7.400-001.2	Low Pressure Plug	1
16	7.906-019.9	Bearing Seal	2	39	7.906-005.1	Cooling Water Seal Ring	3	61	7.906-061	High Pressure Plug	1
17	7.906-014.1	Bearing	2	40	7.906-043.4	Low Pressure Seal Circlip	3	62	7.906-061	High Pressure Plug	2
18	7.906-035.2	Parallel Key	1	41	7.906-041.4	Low Pressure Seal Ring	3	63	7.301-011	Cooling Water Union Nut	3
19	7.906-177	Crankshaft	1	42	7.906-036	Low Pressure Water Seal	3	64	7.906-032.1	Stainless Steel Pump Head	1
20	7.906-011.3	Crankcase	1	43	7.906-064	Packing Cylinder	3	65	7.301-030	Flat Washer	8
21	7.906-043.1	Shaft Retaining Ring	1	44	7.906-049.7	Packing Cylinder O-Ring	3	66	7.906-004.1	Stud	8
22	7.906-051.1	Shaft Oil Seal	1	45	7.906-049.7	Packing Cylinder O-Ring	3	67	7.301-019	Nut	8
23	7.301-016	Hanging Ring	1								

REPAIR KITS

Water Seal Kit			
Index	42	47	53
Part Number	7.906-036	7.906-052.1	7.906-052.3
Name	Low Pressure Water Seal	Packing	Suction Valve Seal
Quantity	3	3	3

Valve Kit						
Index	50	54	56	57	58	59
Part Number	7.906-065	7.906-065.2	7.906-052.2	7.906-066	7.906-143	7.906-066.1
Name	Suction Valve Disc	Valve Seat	Discharge Valve Seal	Discharge Valve Disc	Discharge Valve Spring	Discharge Valve Seat
Quantity	3	3	3	3	3	3

Oil Seal Kit		
Index	22	26
Part Number	7.906-051.1	7.906-051.2
Name	Shaft Oil Seal	Crankcase Oil Seal
Quantity	1	3

Plunger Kit					
Index	33	39	44	45	55
Part Number	7.906-063	7.906-005.1	7.906-049.7	7.906-049.7	7.906-049.6
Name	Plunger	Cooling Water Seal Ring	Packing Cylinder O-Ring	Packing Cylinder O-Ring	Pump Head Seal
Quantity	3	3	3	3	3

FES Series

STAINLESS STEEL PUMP



Soild Shaft Ø40mm

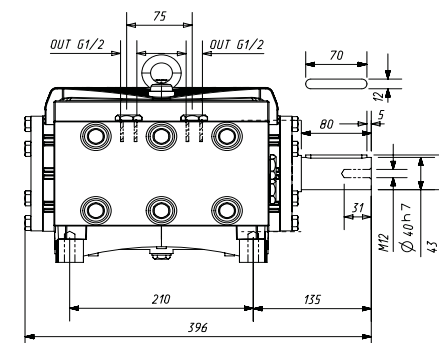
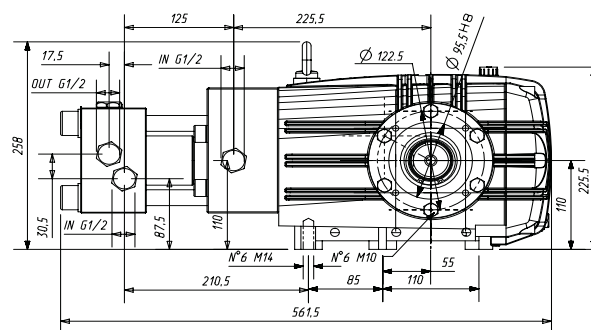
SPECIFICATIONS

Pump Model	FES 15150	FES 10200
Flow Rate (L/min)	15	10
Pressure (bar)	1500	2000
Power (kw)	45	40
RPM	800	800
Shaft Diameter (mm)	40	40
Plunger Stroke (mm)	45	42
Plunger Diameter (mm)	14	12
Oil Capacity (ml)	3450	3450
Inlet Thread	G 1/2	G 1/2
Outlet Thread	G 1/2	G 1/2
Weight (kg)	79	79
Dimensions (mm)	562X396X260	562X396X260

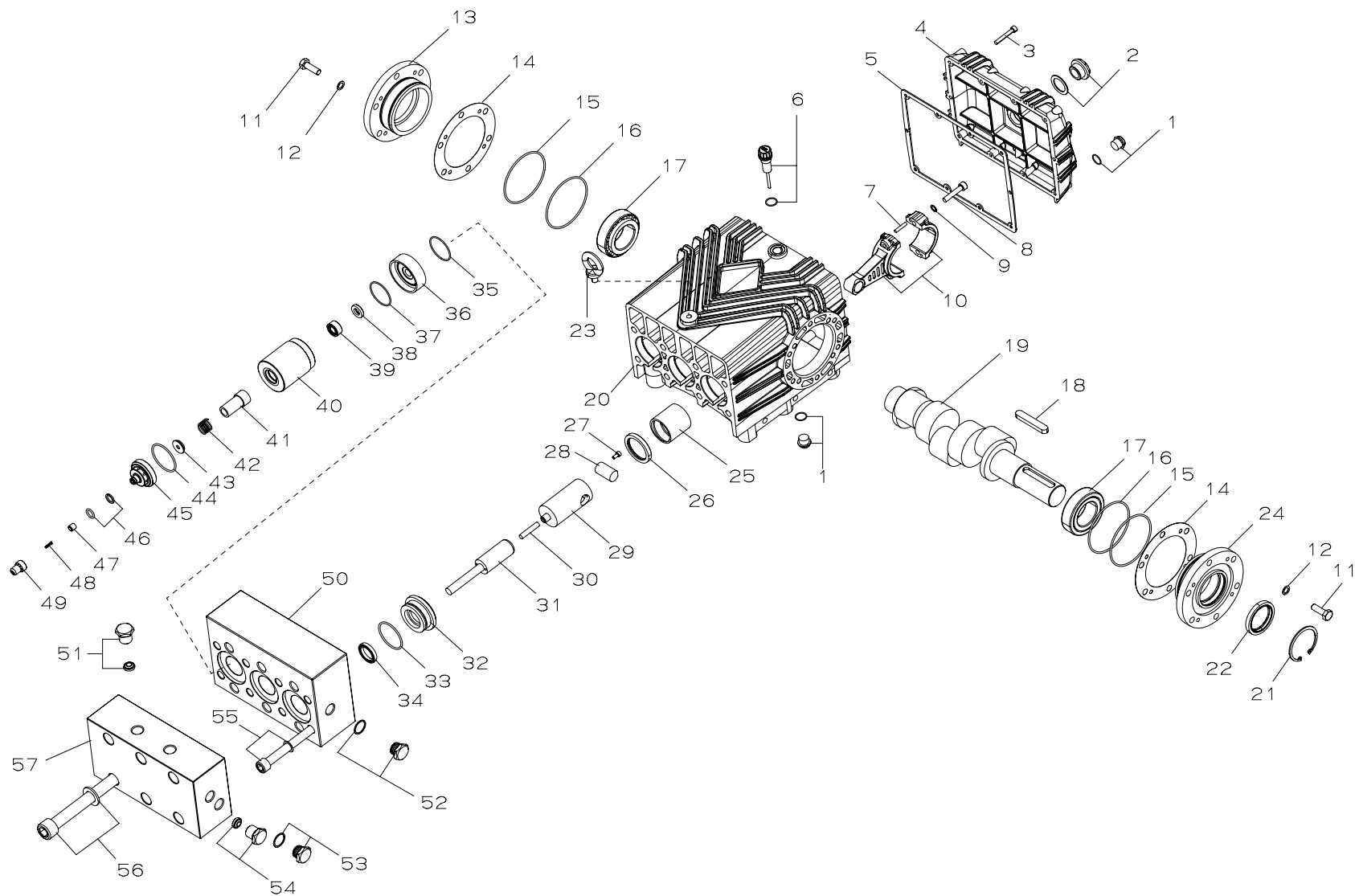
FEATURES

- High-strength stainless-steel pump head provides structural strength and corrosion resistance.
- Forged crankshaft with surface nitriding improves strength and wear resistance.
- The connecting rod is made of a Zn–Cu alloy, improving wear resistance and helping reduce operating noise.
- Tapered roller bearings improve load capability and durability.
- Tungsten-carbide plunger provides high strength and long service life.

DIMENSIONS(mm)



EXPLODED VIEW



COMPONENTS

ITEM	PART NO.	Name	QTY	ITEM	PART NO.	Name	QTY	ITEM	PART NO.	Name	QTY
1	7.400-011	Plug	2	20	7.906-011.3	Crankcase	1	39	7.906-052.2	Packing	3
2	7.906-160	Oil Sight Glass	1	21	7.906-043.1	Shaft Retaining Ring	1	40	7.906-653	Packing Cylinder	3
3	7.301-013	Rear Cover Screw	10	22	7.906-051.1	Shaft Oil Seal	1	41	7.906-654	Guide Copper Sleeve	3
4	7.906-011.3	Rear Cover	1	23	7.301-016	Hanging Ring	1	42	7.906-142	Suction Valve Spring	3
5	7.906-010.2	Rear Cover Oil Gasket	1	24	7.906-060.1	Side Cover	1	43	7.906-100	Suction Valve Disc	3
6	7.903-035	Dipstick	1	25	7.906-062	Crankcase Copper Sleeve	3	44	7.906-049.6	Packing Cylinder O-Ring	3
7	7.301-014	Connecting Rod Pin	6	26	7.906-051.2	Crankcase Oil Seal	3	45	7.906-099	Valve Body	3
8	7.301-020	Connecting Rod Screw	6	27	7.301-017	Plunger Rod Screw	6	46	7.906-052.2	Discharge Valve Seal	3
9	7.301-031	Connecting Rod Screw Washer	6	28	7.906-033.3	Plunger Rod Pin	3	47	7.906-066	Discharge Valve Disc	3
10	7.906-001.2	Copper Connecting Rod	3	29	7.906-024	Plunger Rod	3	48	7.906-143	Discharge Valve Spring	3
11	7.301-015	End Cover Screw	12	30	7.906-650	Connecting Stud	3	49	7.906-655	Discharge Valve Seat	3
12	7.906-145	End Cover Screw Washer	12	31	7.906-158	Alloy Plunger	3	50	7.906-656	Back Plate	1
13	7.906-060	Side Cover	1	32	7.906-089	Guide Seat	3	51	7.906-166	Plug	2
14	7.906-048	Bearing Adjustment Shim	1	33	7.906-049	Guide Seat Seal Ring	3	52	7.400-001.2	Plug	1
15	7.906-019.9	Bearing Seal Ring	2	34	7.906-358	Low Pressure Water Seal	3	53	7.400-001.2	Plug	1
16	7.906-019.9	Bearing Seal Ring	2	35	7.906-055.3	End Cover Seal Ring	3	54	7.906-166	Plug	1
17	7.906-014.1	Bearing	2	36	7.906-651	End Cover	3	55	7.301-022	Back Plate Screw	8
18	7.906-035.2	Parallel Key	1	37	7.906-055.3	End Cover Seal Ring	3	56	7.301-049	Pump Head Screw	6
19	7.906-177	Crankshaft	1	38	7.906-652	High Pressure Seal Seat	3	57	7.906-657	Stainless Steel Pump Head	1

REPAIR KITS

Water Seal Kit				
Index	34	35	37	39
Part Number	7.906-358	7.906-055.3	7.906-055.3	7.906-052.2
Name	Low Pressure Water Seal	End Cover Seal Ring	End Cover Seal Ring	Packing
Quantity	3	3	3	3

Oil Seal Kit		
Index	22	26
Part Number	7.906-051.1	7.906-051.2
Name	Shaft Oil Seal	Crankcase Oil seal
Quantity	1	3

Valve Kit							
Index	43	44	45	46	47	48	49
Part Number	7.906-100	7.906-049.6	7.906-099	7.906-052.2	7.906-066	7.906-143	7.906-655
Name	Suction Valve Disc	Packing Cylinder O-Ring	Valve Body	Discharge Valve Seal	Discharge Valve Disc	Discharge Valve Spring	Discharge Valve Seat
Quantity	3	3	3	3	3	3	3

Plunger Kit	
Index	31
7.906-158	7.906-158
Name	Alloy Plunger
Quantity	3

FEK Series

STAINLESS STEEL PUMP



Soild Shaft Ø40mm

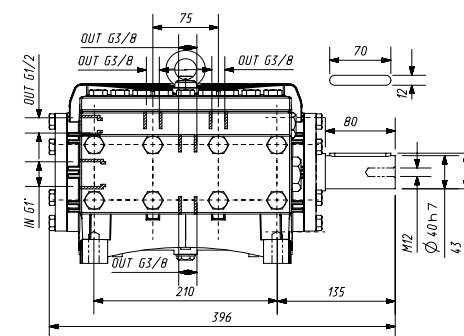
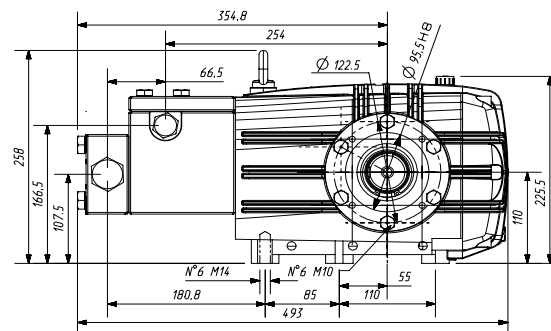
FEATURES

- Stainless-steel high-flow pump head provides corrosion resistance and stability for high-flow operation.
- Forged crankshaft with surface nitriding improves strength and wear resistance.
- The connecting rod is made of a Zn–Cu alloy, improving wear resistance and helping reduce operating noise.
- Tapered roller bearings improve load capability and durability.
- Ceramic plungers with smooth surface finish for long service life.

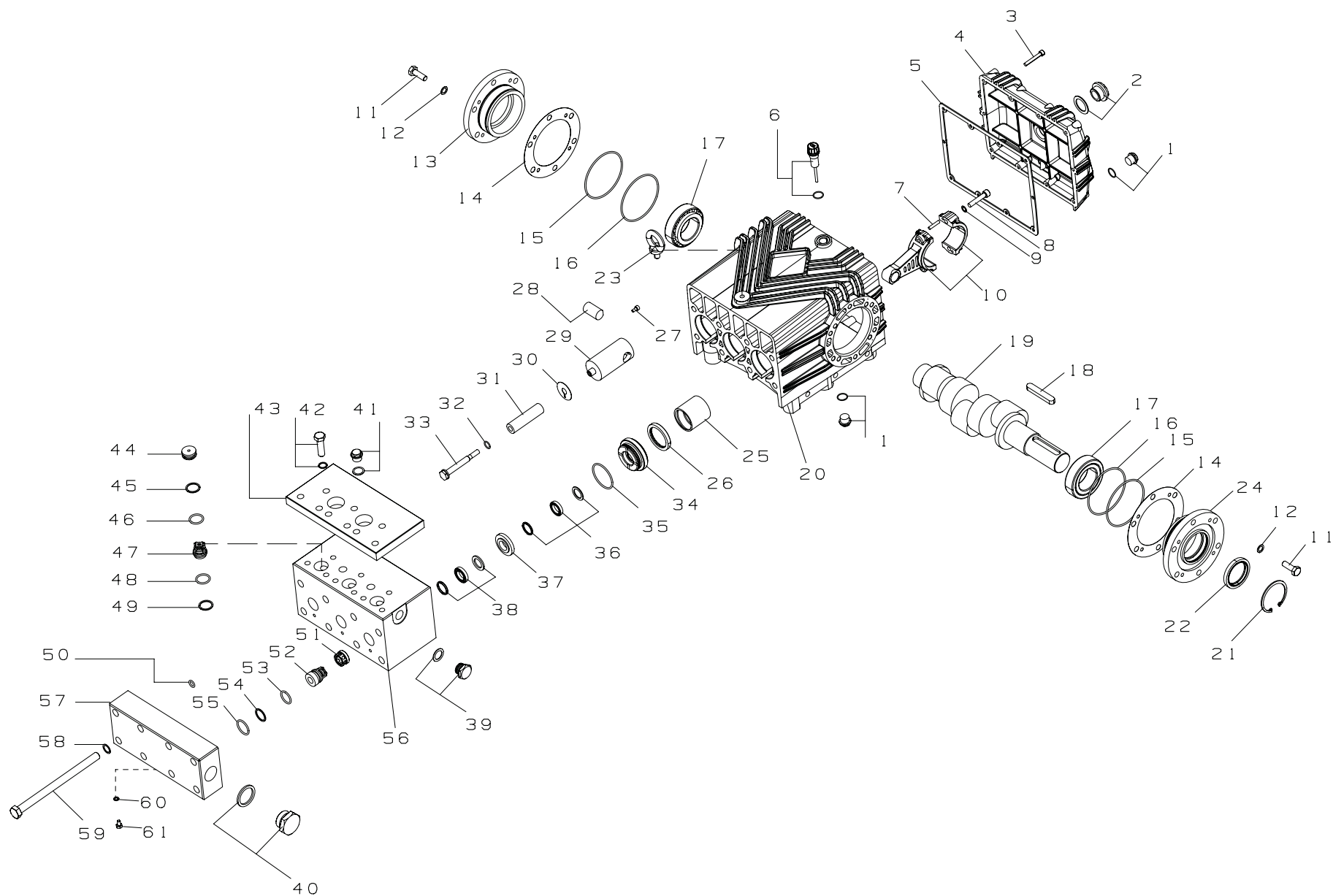
SPECIFICATIONS

Pump Model	FEK 3075	FEK 3665	FEK 4060	FEK 4850	FEK 5045
Flow Rate (L/min)	30	36	40	48	50
Pressure (bar)	750	650	600	500	450
Power (kw)	43.3	45	46.2	46.2	43.3
RPM	1000	1000	1000	1000	1000
Shaft Diameter (mm)	40				
Plunger Stroke (mm)	35	35	45	42	45
Plunger Diameter (mm)	20	22	20	22	22
Oil Capacity (ml)	3450				
Inlet Thread	G 1"				
Outlet Thread	G 1/2				
Weight (kg)	68				
Dimensions (mm)	493x396x226				

DIMENSIONS(mm)



EXPLODED VIEW



COMPONENTS

ITEM	PART NO.	Name	QTY	ITEM	PART NO.	Name	QTY	ITEM	PART NO.	Name	QTY
1	7.400-011	Plug	2	22	7.906-051.1	Shaft Oil Seal	1	42	7.301-021	High Pressure Cover Screw	9
2	7.906-160	Oil Sight Glass	1	23	7.301-016	Hanging Ring	1	43	7.906-126	High Pressure Cover	1
3	7.301-013	Rear Cover Screw	10	24	7.906-060.1	Side Cover	1	44	7.906-067	High Pressure Valve Copper Seat	3
4	7.906-011.3	Rear Cover	1	25	7.906-062	Crankcase Copper Sleeve	3	45	7.906-050	HP Valve Copper Seat Slotted Washer	3
5	7.906-010.2	Rear Cover Oil Gasket	1	26	7.906-051.2	Crankcase Oil Seal	3	46	7.906-049.4	Copper Seat Sealing Ring	3
6	7.903-035	Dipstick	1	27	7.301-017	Plunger Rod Screw	6	47	7.906-086	High Pressure Valve	3
7	7.301-014	Connecting Rod Pin	6	28	7.906-033.3	Plunger Rod Pin	3	48	7.906-049.4	High Pressure Valve Seal	3
8	7.301-020	Connecting Rod Screw	6	29	7.906-024	Plunger Rod	3	49	7.906-050	High Pressure Valve Slotted Washer	3
9	7.301-031	Connecting Rod Screw Washer	6	30	7.906-012.7	Water Seal Washer	3	50	7.906-005.1	Cooling Water Sealing Ring	3
10	7.906-001.2	Copper Connecting Rod	3	31	7.906-161	Ceramic Plunger	3	51	7.406-080	Copper Support	3
11	7.301-015	End Cap Screws	12	32	7.906-049.3	Plunger Seal	3	52	7.906-087	Low Pressure Valve	3
12	7.906-145	End Cover Screw Washer	12	33	7.906-088	Plunger Screw	3	53	7.906-049.4	Low Pressure Valve Seal	3
13	7.906-060	Side Cover	1	34	7.906-128	Guide Seat	3	54	7.906-050	Low Pressure Valve Slotted Washer	3
14	7.906-048	Bearing Adjustment Shim	1	35	7.906-049	Guide Seat Seal Ring	3	55	7.906-049.1	Low Pressure Cover Seal	3
15	7.906-019.9	Bearing Seal	2	36	7.906-007.9	Low Pressure Water Seal	3	56	7.906-125	Stainless Steel Pump Head	1
16	7.906-019.9	Bearing Seal	2	37	7.906-127	Copper Pressure Ring	3	57	7.906-057	Low Pressure Cover Plate	1
17	7.906-014.1	Bearing	2	38	7.906-007.8	High Perssure Water Seal	3	58	7.906-147	Double-Sided Toothed Washer	8
18	7.906-035.2	Parallel Key	1	39	7.400-001.2	High Pressure Plug	1	59	7.301-022	Stud	8
19	7.906-025.14	Crankshaft	1	40	7.906-168	Low Pressure Plug	1	60	7.906-046	Combination Gasket	2
20	7.906-011.3	Crankcase	1	41	7.400-011	High Pressure Plug	4	61	7.301-011	Cooling Water Screw	2
21	7.906-043.1	Shaft Retaining Ring	1								

REPAIR KITS

Water Seal Kit		
Index	36	38
Part Number	7.906-007.9	7.906-007.8
Name	Low Pressure Water Seal	High Perssure Water Seal
Quantity	3	3

Oil Seal Kit		
Index	22	26
Part Number	7.906-051.1	7.906-051.2
Name	Shaft Oil Seal	Crankcase Oil Seal
Quantity	1	3

Valve Kit						
Index	47	48	49	52	53	54
Part Number	7.906-086	7.906-049.4	7.906-050	7.906-087	7.906-049.4	7.906-050
Name	High Pressure Valve	High Pressure Valve Seal	High Pressure Valve Slotted Washer	Low Pressure Valve	Low Pressure Valve Seal	Low Pressure Valve Slotted Washer
Quantity	3	3	3	3	3	3

Plunger Kit	
Index	31
Part Number	7.906-161
Name	Ceramic Plunger
Quantity	3

FEL Series

STAINLESS STEEL PUMP



Soild Shaft Ø40mm

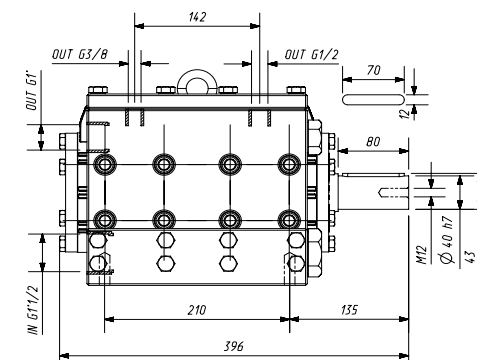
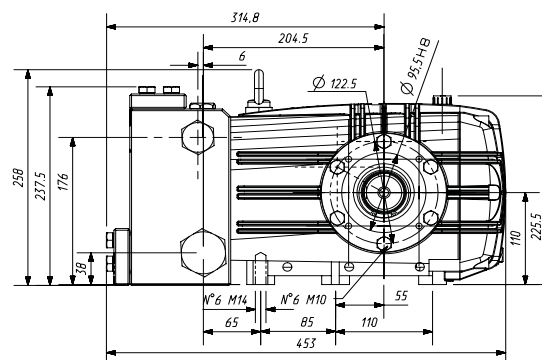
SPECIFICATIONS

Pump Model	FEL 20010	FEL 21516
Flow Rate (L/min)	200	215
Pressure (bar)	100	160
Power (kw)	38.5	66.2
RPM	1000	1000
Shaft Diameter (mm)	40	40
Plunger Stroke (mm)	42	45
Plunger Diameter (mm)	45	45
Oil Capacity (ml)	3450	3450
Inlet Thread	G 1"1/2	G 1"1/2
Outlet Thread	G 1"	G 1"
Weight (kg)	19.5	19.5
Dimensions (mm)	453x396x226	453x396x226

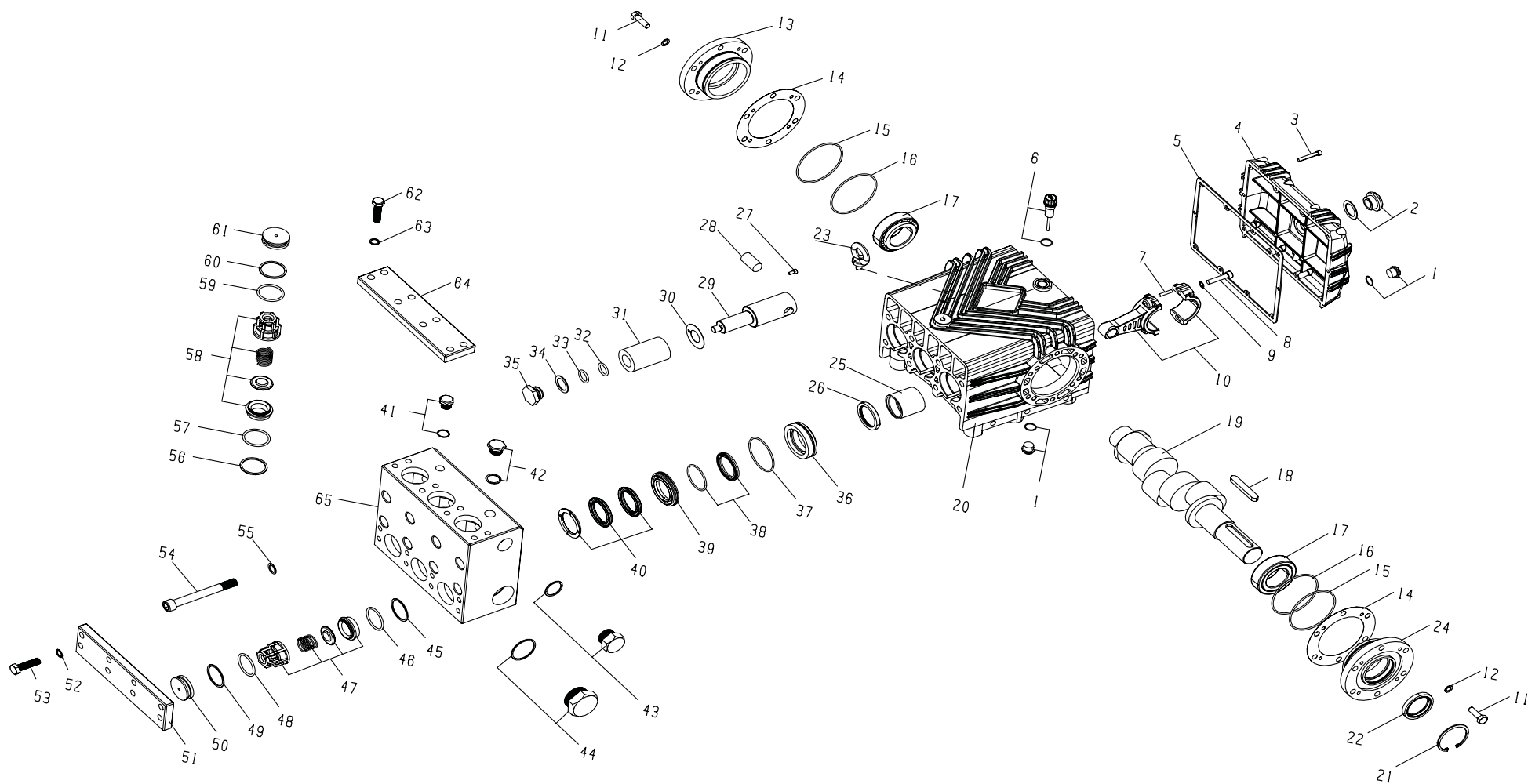
FEATURES

- Stainless-steel high-flow pump head provides corrosion resistance and stability for high-flow operation.
- Forged crankshaft with surface nitriding improves strength and wear resistance.
- The connecting rod is made of a Zn–Cu alloy, improving wear resistance and helping reduce operating noise.
- Tapered roller bearings improve load capability and durability.
- Ceramic plungers with smooth surface finish for long service life.

DIMENSIONS(mm)



EXPLODED VIEW



COMPONENTS

ITEM	PART NO.	Name	QTY	ITEM	PART NO.	Name	QTY	ITEM	PART NO.	Name	QTY
1	7.400-011	Plug	2	23	7.301-016	Hanging Ring	1	45	7.906-113	Inlet Valve Retaining Ring	3
2	7.906-160	Oil Sight Glass	1	24	7.906-060.1	Side Cover	1	46	7.906-049.11	Inlet Valve Seal Ring	3
3	7.301-013	Rear Cover Screw	10	25	7.906-062	Crankcase Copper Sleeve	3	47	7.906-118	Inlet Valve	3
4	7.906-011.3	Rear Cover	1	26	7.906-051.2	Crankcase Oil Seal	3	48	7.906-049.11	Inlet Valve Gland Seal Ring	3
5	7.906-010.2	Rear Cover Oil Gasket	1	27	7.301-045	Plunger Rod Screw	6	49	7.906-114	Inlet Valve Gland Retaining Ring	3
6	7.903-035	Dipstick	1	28	7.906-033.3	Plunger Rod Pin	3	50	7.906-115	Inlet Valve Gland	3
7	7.301-014	Connecting Rod Pin	6	29	7.906-023	Plunger Rod	3	51	7.906-116	Inlet Valve Cover	1
8	7.301-020	Connecting Rod Screw	6	30	7.906-134	Water Seal Washer	3	52	7.906-148	Double Sided Tooth Gasket	8
9	7.301-031	Connecting Rod Screw Washer	6	31	7.906-003.5	Ceramic Plunger	3	53	7.301-027	Inlet Valve Cover Nut	8
10	7.906-001.2	Copper Connecting Rod	3	32	7.906-172	Plunger Seal	3	54	7.301-028	Pump Head Screw	8
11	7.301-015	End Cap Screw	12	33	7.906-172	Plunger Seal	3	55	7.906-147	Double-Sided Toothed Washer	8
12	7.906-145	End Cover Screw Washer	12	34	7.906-136	Plunger Gasket	3	56	7.906-113	Outlet Valve Retaining Ring	3
13	7.906-060	Side Cover	1	35	7.301-034	Plunger Dry Nut	3	57	7.906-049.11	Outlet Valve Seal Ring	3
14	7.906-048	Bearing Adjustment Shim	1	36	7.906-111	Copper End Cap	3	58	7.906-119	Outlet Valve	3
15	7.906-019.9	End Cover Seal	2	37	7.906-049.2	Copper End Cap Seal Ring	3	59	7.906-049.11	Outlet Valve Gland Sealing Ring	3
16	7.906-019.9	End Cover Seal	2	38	7.906-357	Low Pressure Water Seal	3	60	7.906-114	Outlet Valve Gland Retaining Ring	3
17	7.906-014.1	Bearing	2	39	7.906-112	Copper Pressure Ring	3	61	7.906-115	Outlet Valve Gland	3
18	7.906-035.2	Parallel Key	1	40	7.906-356	High Pressure Water Seal	3	62	7.301-027	Outlet Valve Cover Nut	8
19	7.906-176	Crankshaft	1	41	7.400-011	Plug	2	63	7.906-148	Serrated Washer	8
20	7.906-011.3	Crankcase	1	42	7.400-001.2	Plug	1	64	7.906-116	Outlet Valve Cover	1
21	7.906-043.1	Shaft Circlip	1	43	7.906-168	Plug	1	65	7.906-117	Stainless Steel Pump Head	1
22	7.906-051.1	Shaft Oil Seal	1	44	7.906-167	Plug	1				

REPAIR KITS

Water Seal Kit		
Index	38	40
Part Number	7.906-357	7.906-356
Name	Low Pressure Water Seal	High Pressure Water Seal
Quantity	3	3

Valve Kit												
Index	37	45	46	47	48	49	56	57	58	59	60	
Part Number	7.906-049.2	7.906-113	7.906-049.11	7.906-118	7.906-049.11	7.906-114	7.906-113	7.906-049.11	7.906-119	7.906-049.11	7.906-114	
Name	Copper End Cap Seal Ring	Inlet Valve Retaining Ring	Inlet Valve Seal Ring	Inlet Valve	Inlet Valve Gland Seal Ring	Inlet Valve Gland Retaining Ring	Outlet Valve Retaining Ring	Outlet Valve Seal Ring	Outlet Valve	Outlet Valve Gland Sealing Ring	Outlet Valve Gland Retaining Ring	
Quantity	3	3	3	3	3	3	3	3	3	3	3	

Oil Seal Kit	
Index	22
Part Number	7.906-051.1
Name	Shaft Oil Seal
Quantity	1

26
7.906-051.2
Crankcase Oil Seal
3

Plunger Kit	
Index	31
Part Number	7.906-003.5
Name	Ceramic Plunger
Quantity	3

FEL Series

STAINLESS STEEL PUMP



Soild Shaft Ø40mm

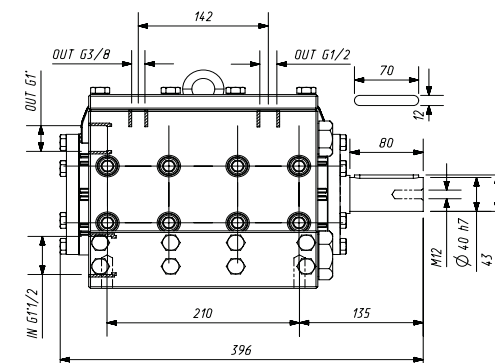
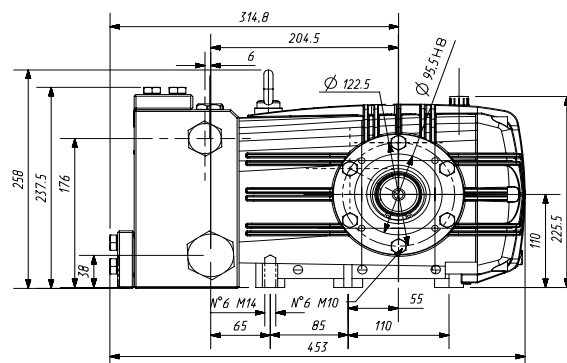
FEATURES

- Stainless-steel high-flow pump head provides corrosion resistance and stability for high-flow operation.
- Forged crankshaft with surface nitriding improves strength and wear resistance.
- The connecting rod is made of a Zn–Cu alloy, improving wear resistance and helping reduce operating noise.
- Tapered roller bearings improve load capability and durability.
- Ceramic plungers with smooth surface finish for long service life.

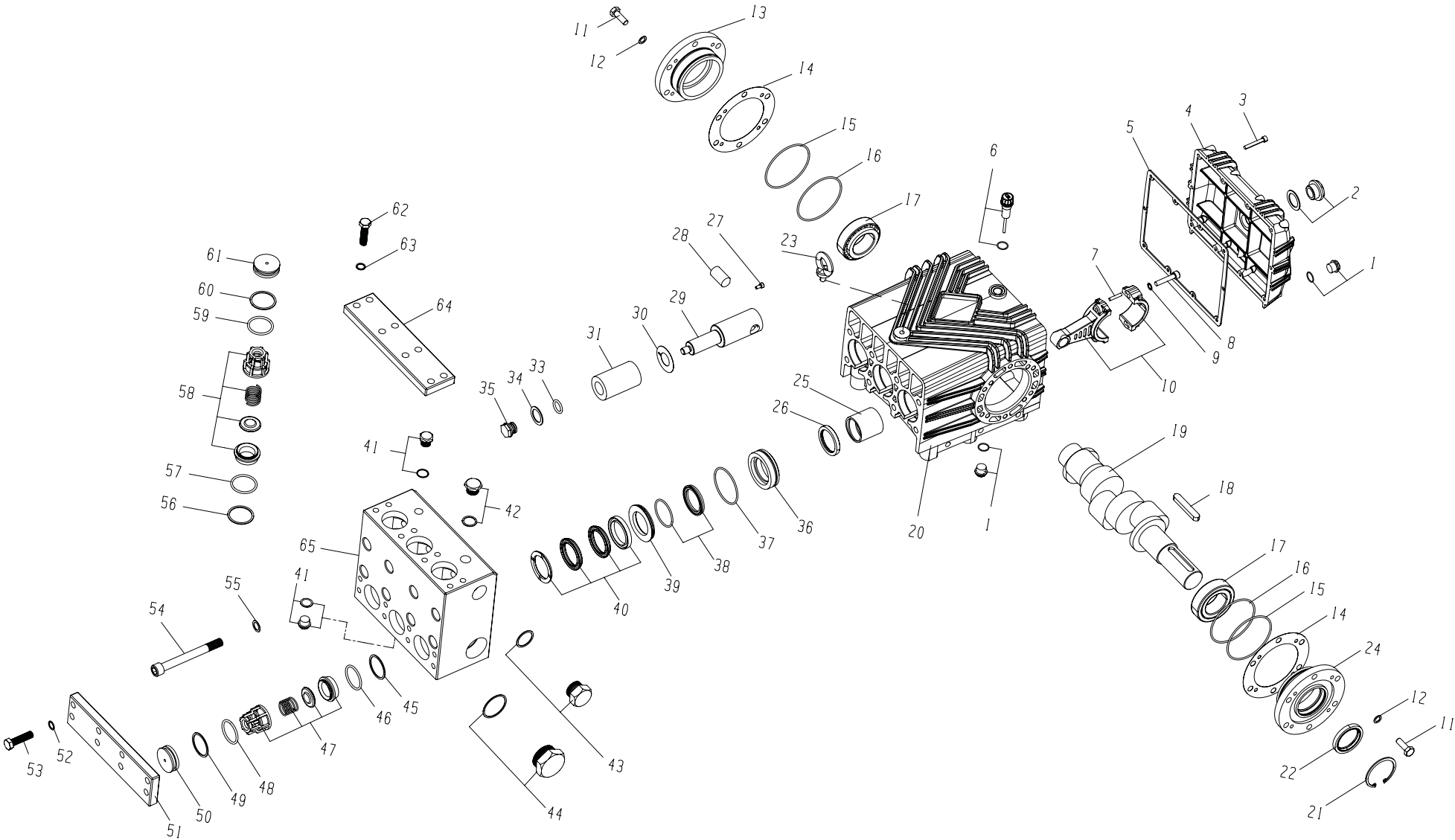
SPECIFICATIONS

Pump Model	FEL 7535	FEL 10020	FEL 13022	FEL 16018
Flow Rate (L/min)	75	100	130	160
Pressure (bar)	350	200	220	180
Power (kw)	50.5	38.5	55	55.4
RPM	1000			
Shaft Diameter (mm)	40			
Plunger Stroke (mm)	42	35	42	42
Plunger Diameter (mm)	28	36	36	40
Oil Capacity (ml)	3450			
Inlet Thread	G 1"1/2			
Outlet Thread	G 1"			
Weight (kg)	70.5			
Dimensions (mm)	453x396x226			

DIMENSIONS(mm)



EXPLODED VIEW



COMPONENTS

ITEM	PART NO.	Name	QTY	ITEM	PART NO.	Name	QTY	ITEM	PART NO.	Name	QTY
1	7.400-011	Plug	2	23	7.301-016	Hanging Ring	1	45	7.906-113	Inlet Valve Retaining Ring	3
2	7.906-160	Oil Sight Glass	1	24	7.906-060.1	Side Cover	1	46	7.906-049.11	Inlet Valve Seal Ring	3
3	7.301-013	Rear Cover Screw	10	25	7.906-062	Crankcase Copper Sleeve	3	47	7.906-118	Inlet Valve	3
4	7.906-011.3	Rear Cover	1	26	7.906-051.2	Crankcase Oil Seal	3	48	7.906-049.11	Inlet Valve Gland Seal Ring	3
5	7.906-010.2	Rear Cover Oil Gasket	1	27	7.301-045	Plunger Rod Screw	6	49	7.906-114	Inlet Valve Gland Retaining Ring	3
6	7.903-035	Dipstick	1	28	7.906-033.3	Plunger Rod Pin	3	50	7.906-115	Inlet Valve Gland	3
7	7.301-014	Connecting Rod Pin	6	29	7.906-023	Plunger Rod	3	51	7.906-116	Inlet Valve Cover	1
8	7.301-020	Connecting Rod Screw	6	30	7.906-134	Water Seal Washer	3	52	7.906-148	Double Sided Tooth Gasket	8
9	7.301-031	Connecting Rod Screw Washer	6	31	7.906-003.5	Ceramic Plunger	3	53	7.301-027	Inlet Valve Cover Nut	8
10	7.906-001.2	Copper Connecting Rod	3	33	7.906-172	Plunger Seal	3	54	7.301-028	Pump Head Screw	8
11	7.301-015	End Cap Screw	12	34	7.906-136	Plunger Gasket	3	55	7.906-147	Double-Sided Toothed Washer	8
12	7.906-145	End Cover Screw Washer	12	35	7.301-034	Plunger Dry Nut	3	56	7.906-113	Outlet Valve Retaining Ring	3
13	7.906-060	Side Cover	1	36	7.906-111	Copper End Cap	3	57	7.906-049.11	Outlet Valve Seal Ring	3
14	7.906-048	Bearing Adjustment Shim	1	37	7.906-049.2	Copper End Cap Seal Ring	3	58	7.906-119	Outlet Valve	3
15	7.906-019.9	End Cover Seal	2	38	7.906-357	Low-Pressure Water Seal	3	59	7.906-049.11	Outlet Valve Gland Sealing Ring	3
16	7.906-019.9	End Cover Seal	2	39	7.906-112	Copper Pressure Ring	3	60	7.906-114	Outlet Valve Gland Retaining Ring	3
17	7.906-014.1	Bearing	2	40	7.906-356	High Pressure Water Seal	3	61	7.906-115	Outlet Valve Gland	3
18	7.906-035.2	Parallel Key	1	41	7.400-011	Plug	2	62	7.301-027	Outlet Valve Cover Nut	8
19	7.906-176	Crankshaft	1	42	7.400-001.2	Plug	1	63	7.906-148	Serrated Washer	8
20	7.906-011.3	Crankcase	1	43	7.906-168	Plug	1	64	7.906-116	Outlet Valve Cover	1
21	7.906-043.1	Shaft Circlip	1	44	7.906-167	Plug	1	65	7.906-117	Stainless Steel Pump Head	1
22	7.906-051.1	Shaft Oil Seal	1								

REPAIR KITS

Water Seal Kit		
Index	38	40
Part Number	7.906-357	7.906-356
Name	Low-Pressure Water Seal	High-Pressure Water Seal
Quantity	3	3

Valve Kit												
Index	37	45	46	47	48	49	56	57	58	59	60	
Part Number	7.906-049.2	7.906-113	7.906-049.11	7.906-118	7.906-049.11	7.906-114	7.906-113	7.906-049.11	7.906-119	7.906-049.11	7.906-114	
Name	Copper End Cap Seal Ring	Inlet Valve Retaining Ring	Inlet Valve Seal Ring	Inlet Valve	Inlet Valve Gland Seal Ring	Inlet Valve Gland Retaining Ring	Outlet Valve Retaining Ring	Outlet Valve Seal Ring	Outlet Valve	Outlet Valve Gland Sealing Ring	Outlet Valve Gland Retaining Ring	
Quantity	3	3	3	3	3	3	3	3	3	3	3	

Oil Seal Kit	
Index	22
Part Number	7.906-051.1
Name	Shaft Oil Seal
Quantity	1

26
7.906-051.2
Crankcase Oil Seal
3

Plunger Kit	
Index	31
Part Number	7.906-003.5
Name	Ceramic Plunger
Quantity	3

FUSSEN®

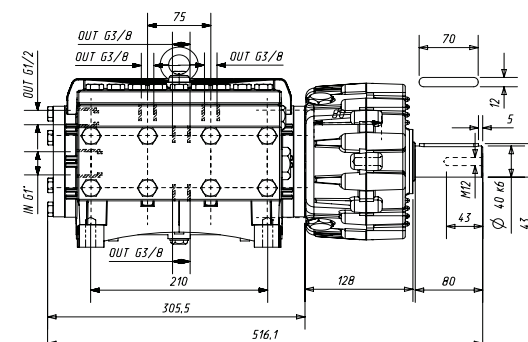


SPECIFICATIONS

Pump Model	FEK-G 3075	FEK-G 3665	FEK-G 4060	FEK-G 4850	FEK-G 5045	FEK-G 2275	FEK-G 2765	FEK-G 3060	FEK-G 3650	FEK-G 3745
Flow Rate (L/min)	30	36	40	48	50	22.5	27	30	36	37.5
Pressure (bar)	750	650	600	500	450	750	650	600	500	450
Power (kw)	43.3	45	46.2	46.2	43.3	32.5	33.8	34.6	34.6	32.5
RPM	1000	1000	1000	1000	1000	750	750	750	750	750
Shaft Diameter (mm)	40									
Plunger Stroke (mm)	35	42	45	42	45	35	42	45	42	45
Plunger Diameter (mm)	20	20	20	22	22	20	20	20	22	22
Oil Capacity (ml)	3450									
Inlet Thread	G 1"									
Outlet Thread	G 1/2									
Weight (kg)	68									
Dimensions (mm)	493X517X260									

DIMENSIONS (mm)

-
- Technical drawing of the F430 engine showing dimensions in mm. The drawing includes a side view of the engine with various mounting points and a diamond-shaped logo on the side. Dimensions are provided for overall length, width, height, and specific mounting points.
- | Dimension | Value (mm) |
|------------------------|------------|
| Overall Length | 493 |
| Overall Width | 254 |
| Overall Height | 238 |
| Mounting Point N°6 M14 | 180,8 |
| Mounting Point N°5 | 85 |
| Mounting Point N°4 | 110 |
| Mounting Point N°3 | 55 |
| Mounting Point N°2 | 112 |
| Mounting Point N°1 | 66,5 |
| Mounting Point N°7 | 107,5 |
| Mounting Point N°8 | 166,5 |
| Mounting Point N°9 | 225,5 |
| Mounting Point N°10 | 110 |





COMPONENTS

ITEM	PART NO.	Name	QTY	ITEM	PART NO.	Name	QTY	ITEM	PART NO.	Name	QTY
1	7.400-011	Plug	2	22	7.906-051.1	Shaft Oil Seal	1	43	7.906-057.1	High Pressure Cover	1
2	7.906-160	Oil Sight Glass	1	23	7.301-016	Hanging Ring	1	44	7.906-067	High Pressure Valve Copper Seat	3
3	7.301-013	Rear Cover Screw	10	24	7.906-060.1	Side Cover	1	45	7.906-050	HP Valve Copper Seat Slotted Washer	3
4	7.906-011.3	Rear Cover	1	25	7.906-062	Crankcase Copper Sleeve	3	46	7.906-049.4	Copper Seat Sealing Ring	3
5	7.906-010.2	Rear Cover Oil Gasket	1	26	7.906-051.2	Crankcase Oil Seal	3	47	7.906-086	High Pressure Valve	3
6	7.903-035	Dipstick	1	27	7.301-017	Plunger Rod Screw	6	48	7.906-049.4	High Pressure Valve Seal Ring	3
7	7.301-014	Connecting Rod Pin	6	28	7.906-033.3	Plunger Rod Pin	3	49	7.906-050	High Pressure Valve Slotted Washer	3
8	7.301-020	Connecting Rod Screw	6	29	7.906-024	Plunger Rod	3	50	7.906-005.1	Cooling Water Sealing Ring	3
9	7.301-031	Connecting Rod Screw Washer	6	30	7.906-012.7	Water Seal Washer	3	51	7.406-080	Copper Support	3
10	7.906-001.2	Copper Connecting Rod	3	31	7.906-003.9	Ceramic Plunger	3	52	7.906-087	Low-Pressure Valve	3
11	7.301-015	End Cap Screws	12	32	7.906-049.3	Plunger Seal	3	53	7.906-049.4	Low Pressure Valve Seal Ring	3
12	7.906-145	End Cover Screw Washer	12	33	7.906-088	Plunger Screw	3	54	7.906-050	Low Pressure Valve Slotted Washer	3
13	7.906-060	Side Cover	1	34	7.906-089	Guide Seat	3	55	7.906-049.1	Low Pressure Cover Seal Ring	3
14	7.906-048	Bearing Adjustment Shim	1	35	7.906-049	Guide Seat Seal Ring	3	56	7.906-057.2	Stainless Steel Pump Head	1
15	7.906-019.9	End Cover Seal	2	36	7.906-036.6	Low Pressure Water Seal	3	57	7.906-057	Low Pressure Cover Plate	1
16	7.906-019.9	End Cover Seal	2	37	7.906-081	Copper Pressure Ring	3	58	7.906-147	Double-Sided Toothed Washer	8
17	7.906-014.1	Bearing	2	38	7.906-036.5	High Pressure Water Seal	3	59	7.301-022	Stud	8
18	7.906-035.2	Parallel Key	1	39	7.400-001.2	High Pressure Plug	1	60	7.906-046	Combination Gasket	2
19	7.906-177	Crankshaft	1	40	7.906-168	Low Pressure Plug	1	61	7.301-011	Cooling Water Screw	2
20	7.906-011.3	Crankcase	1	41	7.400-011	High Pressure Plug	2	62	7.400-011	High Pressure Plug	1
21	7.906-043.1	Shaft Retaining Ring	1	42	7.301-021	High Pressure Cover Screw	9	63	7.400-011	High Pressure Plug	1

REPAIR KITS

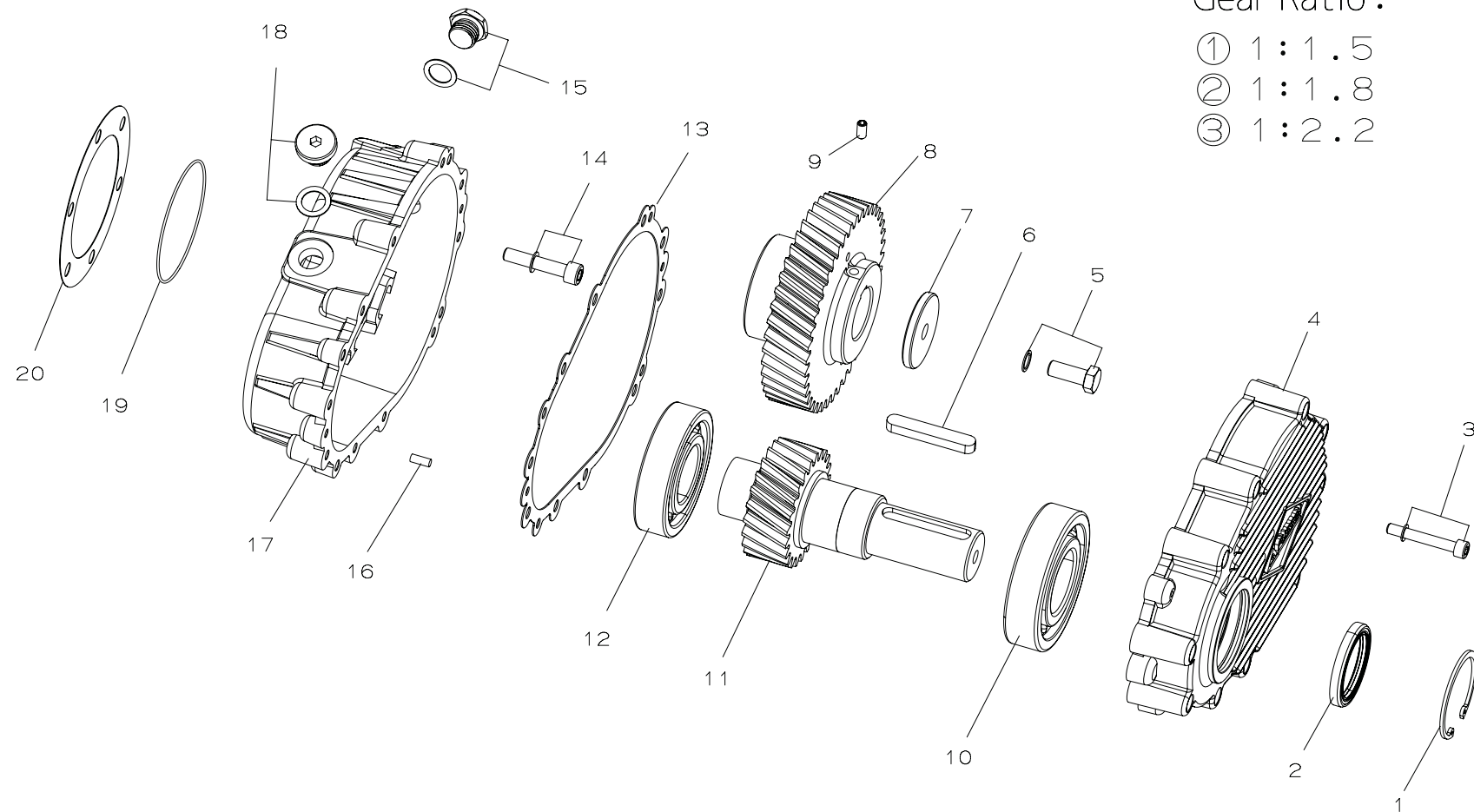
Water Seal Kit		
Index	36	38
Part Number	7.906-036.6	7.906-036.5
Name	Low Pressure Water Seal	High Pressure Water Seal
Quantity	3	3

Oil Seal Kit		
Index	22	26
Part Number	7.906-051.1	7.906-051.2
Name	Shaft Oil Seal	Crankcase Oil Seal
Quantity	1	3

Valve Kit						
Index	47	48	49	52	53	54
Part Number	7.906-086	7.906-049.4	7.906-050	7.906-087	7.906-049.4	7.906-050
Name	High Pressure Valve	High Pressure Valve Seal Ring	High Pressure Valve Slotted Washer	Low Pressure Valve	Low Pressure Valve Seal Ring	Low Pressure Valve Slotted Washer
Quantity	3	3	3	3	3	3

Plunger Kit	
Index	31
Part Number	7.906-003.9
Name	Ceramic Plunger
Quantity	3

EXPLODED VIEW (GEARBOX)



Gear Ratio :

① 1 : 1.5

② 1 : 1.8

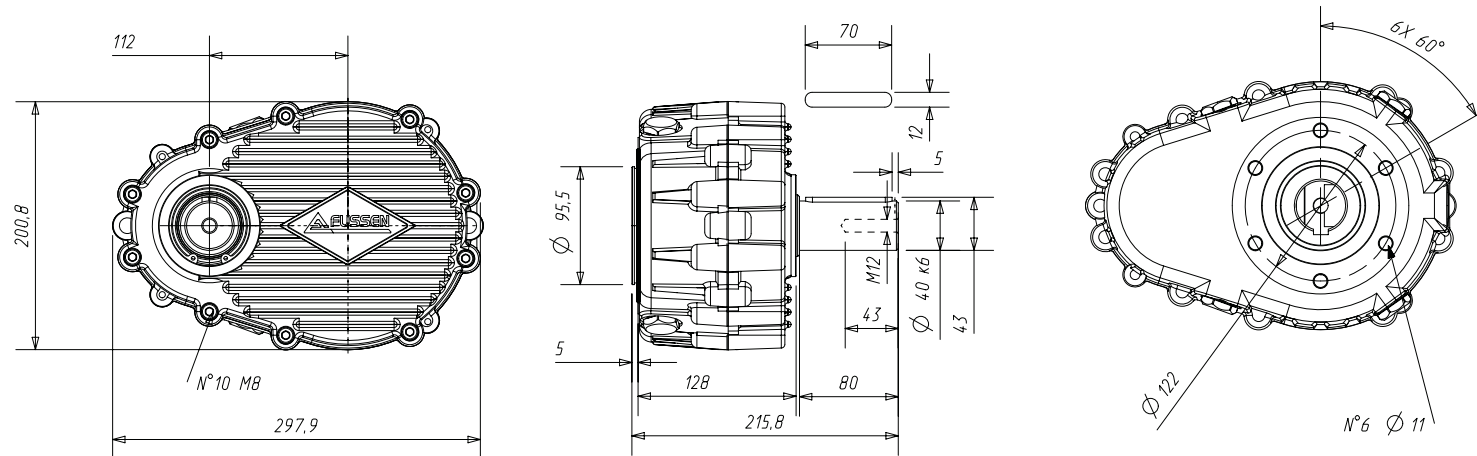
③ 1 : 2.2

COMPONENTS (GEARBOX)

ITEM	PART NO.	Name	QTY
1	7.905-053	Internal Circlip	1
2	7.905-039	Output Shaft Oil Seal	1
3	7.310-054	M8×55 Hex Socket Screw	10
4	7.140-007	Front Housing Cover	1
5	7.301-056	M12×30 Hex Head Screw	1
6	7.905-054	Parallel Key	1
7	7.905-057	Driven Gear Retainer	1
8	7.400-260	Driven Gear	1
9	7.301-057	M8×15 Set Screw	1
10	7.905-041	Output Shaft Bearing	1

ITEM	PART NO.	Name	QTY
11	7.400-254	Driving Gear	1
12	7.905-042	Inner Crankcase Bearing	1
13	7.905-051	Crankcase Oil Baffle Gasket	1
14	7.301-055	Hexagon Socket Bolt	6
15	7.905-052	G1/2 Oil Sight Glass With Gasket	1
16	7.905-055	Dowel Pin	2
17	7.140-008	Crankcase Rear Cover	1
18	7.905-056	G1/2 Plug With Gasket	2
19	7.905-040	Rear Cover O-Ring	1
20	7.905-050	Rear Cover Oil Baffle Gasket	1

DIMENSIONS (GEARBOX)



FES-G Series

STAINLESS STEEL PUMP



Solid Shaft $\varnothing 40\text{mm}$

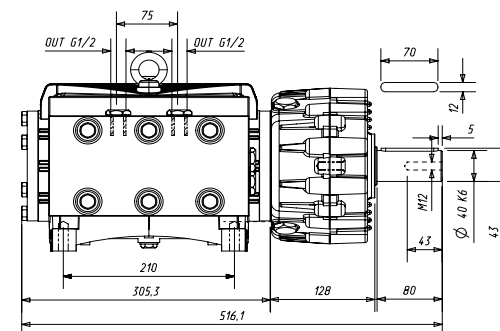
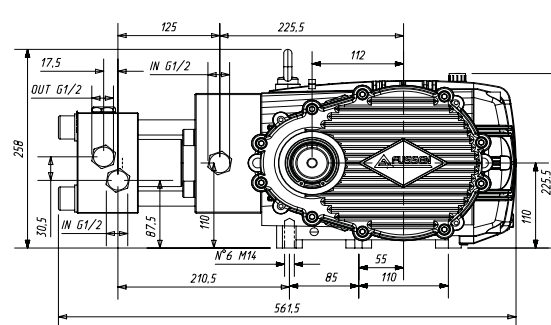
SPECIFICATIONS

Pump Model	FES-G15150	FES-G10200
Flow Rate (L/min)	15	10
Pressure (bar)	1500	2000
Power (kw)	45	40
RPM	800	800
Shaft Diameter (mm)	40	40
Plunger Stroke (mm)	45	42
Plunger Diameter (mm)	14	12
Oil Capacity (ml)	3450	3450
Inlet Thread	G 1/2	G 1/2
Outlet Thread	G 1/2	G 1/2
Weight (kg)	79	79
Dimensions (mm)	562X517X260	562X517X260

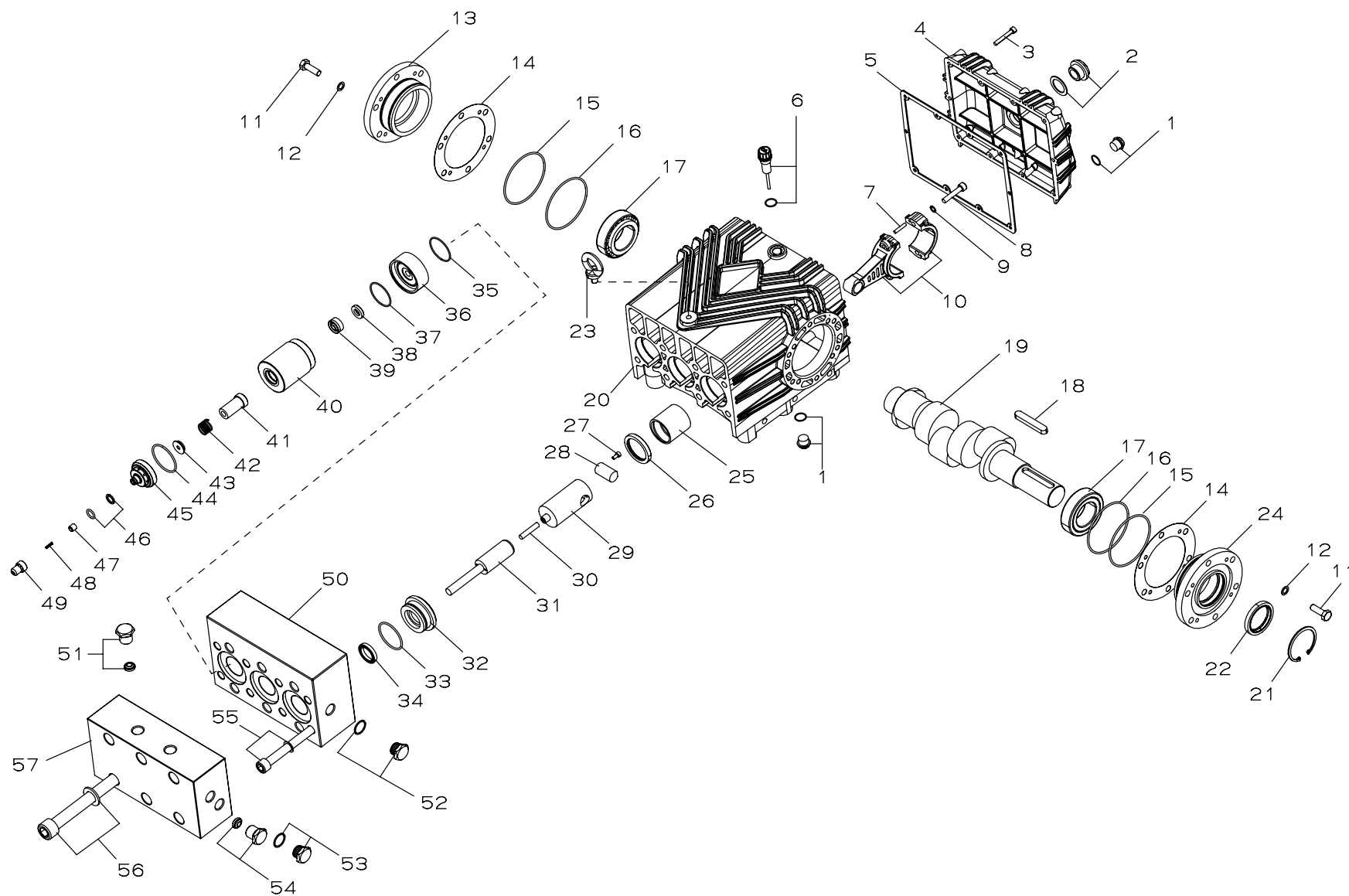
FEATURES

- High-strength stainless-steel pump head provides structural strength and corrosion resistance.
- Forged crankshaft with surface nitriding improves strength and wear resistance.
- The connecting rod is made of a Zn-Cu alloy, improving wear resistance and helping reduce operating noise.
- Tapered roller bearings improve load capability and durability.
- Tungsten-carbide plunger provides high strength and long service life.

DIMENSIONS(mm)



EXPLODED VIEW



COMPONENTS

ITEM	PART NO.	Name	QTY	ITEM	PART NO.	Name	QTY	ITEM	PART NO.	Name	QTY
1	7.400-011	Plug	2	20	7.906-011.3	Crankcase	1	39	7.906-052.2	Packing	9
2	7.906-160	Oil Sight Glass	1	21	7.906-043.1	Shaft Retaining Ring	1	40	7.906-653	Packing Cylinder	1
3	7.301-013	Rear Cover Screw	10	22	7.906-051.1	Shaft Oil Seal	1	41	7.906-654	Guide Copper Sleeve	3
4	7.906-011.3	Rear Cover	1	23	7.301-016	Hanging Ring	3	42	7.906-142	Suction Valve Spring	3
5	7.906-010.2	Rear Cover Oil Gasket	1	24	7.906-060.1	Side Cover	3	43	7.906-100	Suction Valve Plate	3
6	7.903-035	Dipstick	1	25	7.906-062	Crankcase Copper Sleeve	6	44	7.906-049.6	Packing Cylinder O-Ring	3
7	7.301-014	Connecting Rod Pin	6	26	7.906-051.2	Crankcase Oil Seal	3	45	7.906-099	Valve Body	3
8	7.301-020	Connecting Rod Screw	6	27	7.301-017	Plunger Rod Screw	3	46	7.905-052.2	Discharge Valve Seal	3
9	7.301-031	Connecting Rod Screw Washer	6	28	7.906-033.3	Plunger Rod Pin	3	47	7.906-066	Discharge Valve Disc	3
10	7.906-001.2	Copper Connecting Rod	3	29	7.906-024	Plunger Rod	3	48	7.906-143	Discharge Valve Spring	3
11	7.301-015	End Cap Screw	12	30	7.906-650	Connecting Stud	3	49	7.906-655	Discharge Valve Seat	3
12	7.906-145	End Cover Screw Washer	12	31	7.906-158	Alloy Plunger	3	50	7.906-656	Back Plate	3
13	7.906-060	Side Cover	1	32	7.906-089	Guide Seat	3	51	7.906-166	Plug	3
14	7.906-048	Bearing Adjustment Shim	1	33	7.906-049	Guide Seat Seal Ring	3	52	7.400-001.2	Plug	3
15	7.906-019.9	End Cover Seal	2	34	7.906-358	Low Pressure Water Seal	3	53	7.400-001.2	Plug	1
16	7.906-019.9	End Cover Seal	2	35	7.906-055.3	End Cover Seal Ring	3	54	7.906-166	Plug	1
17	7.906-014.1	Bearing	2	36	7.906-651	End Cover	3	55	7.301-022	Back Plate Screw	8
18	7.906-035.2	Parallel Key	1	37	7.906-055.3	End Cover Seal Ring	1	56	7.301-049	Pump Head Screw	8
19	7.906-177	Crankshaft	1	38	7.906-652	High Pressure Seal Holder	4	57	7.906-657	Pump Head	2

REPAIR KITS

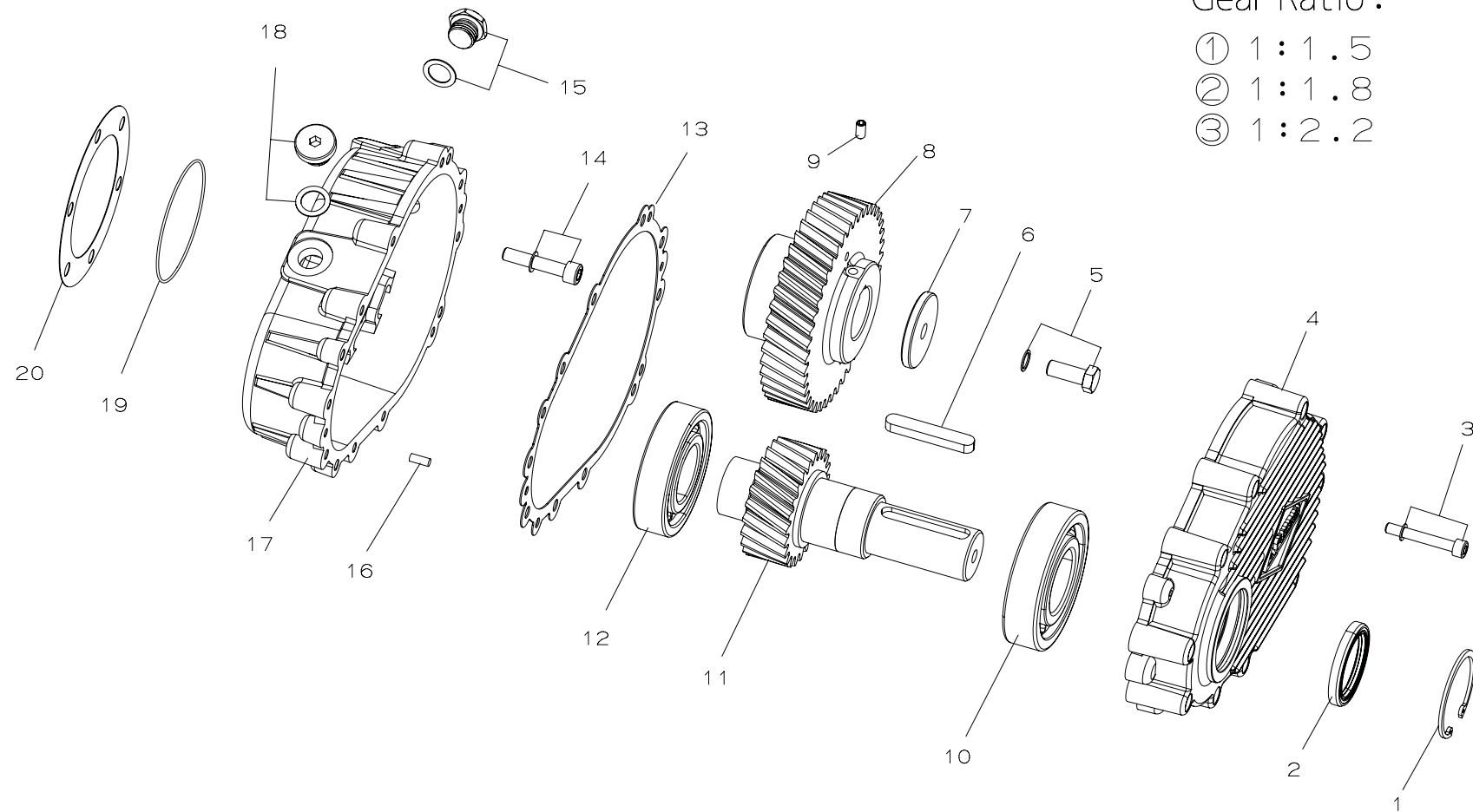
Water Seal Kit				
Index	34	35	37	39
Part Number	7.906-358	7.906-055.3	7.906-055.3	7.906-052.2
Name	Low Pressure Water Seal	End Cover Seal Ring	End Cover Seal Ring	Packing
Quantity	3	3	3	3

Oil Seal Kit		
Index	22	26
Part Number	7.906-051.1	7.906-051.2
Name	Shaft Oil Seal	Crankcase Oil seal
Quantity	1	3

Valve Kit							
Index	43	44	45	46	47	48	49
Part Number	7.906-100	7.906-049.6	7.906-099	7.906-052.2	7.906-066	7.906-143	7.906-655
Name	Suction Valve Plate	Packing Cylinder O-Ring	Valve Body	Discharge Valve Seal	Discharge Valve Disc	Discharge Valve Spring	Discharge Valve Seat
Quantity	3	3	3	3	3	3	3

Plunger Kit	
Index	31
Part Number	7.906-158
Name	Alloy Plunger
Quantity	3

EXPLODED VIEW (GEARBOX)



FFS-G Series

STAINLESS STEEL PUMP



Soloid Shaft Ø60mm

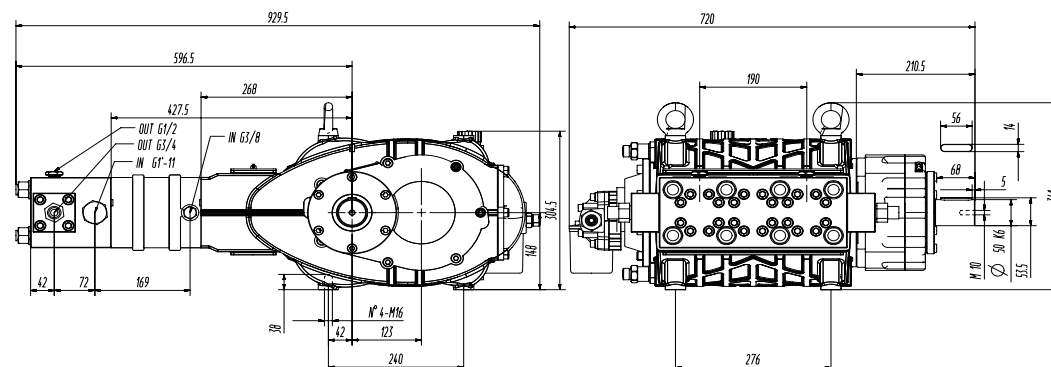
SPECIFICATIONS

Pump Model	FFS-G 25150	FFS-G 30130	FFS-G 45100	FFS-G 6080
Flow Rate (L/min)	27	33.9	48	65
Pressure (bar)	1500	1300	1000	800
Power (kw)	67.5	73.5	80	86.7
RPM	600	600	600	800
Shaft Diameter (mm)	60			
Plunger Stroke (mm)	60			
Plunger Diameter (mm)	18	20	24	24
Oil Capacity (ml)	9000			
Inlet Thread	G 1"			
Outlet Thread	G 3/4			
Weight (kg)	68			
Dimensions (mm)	930X720X341			

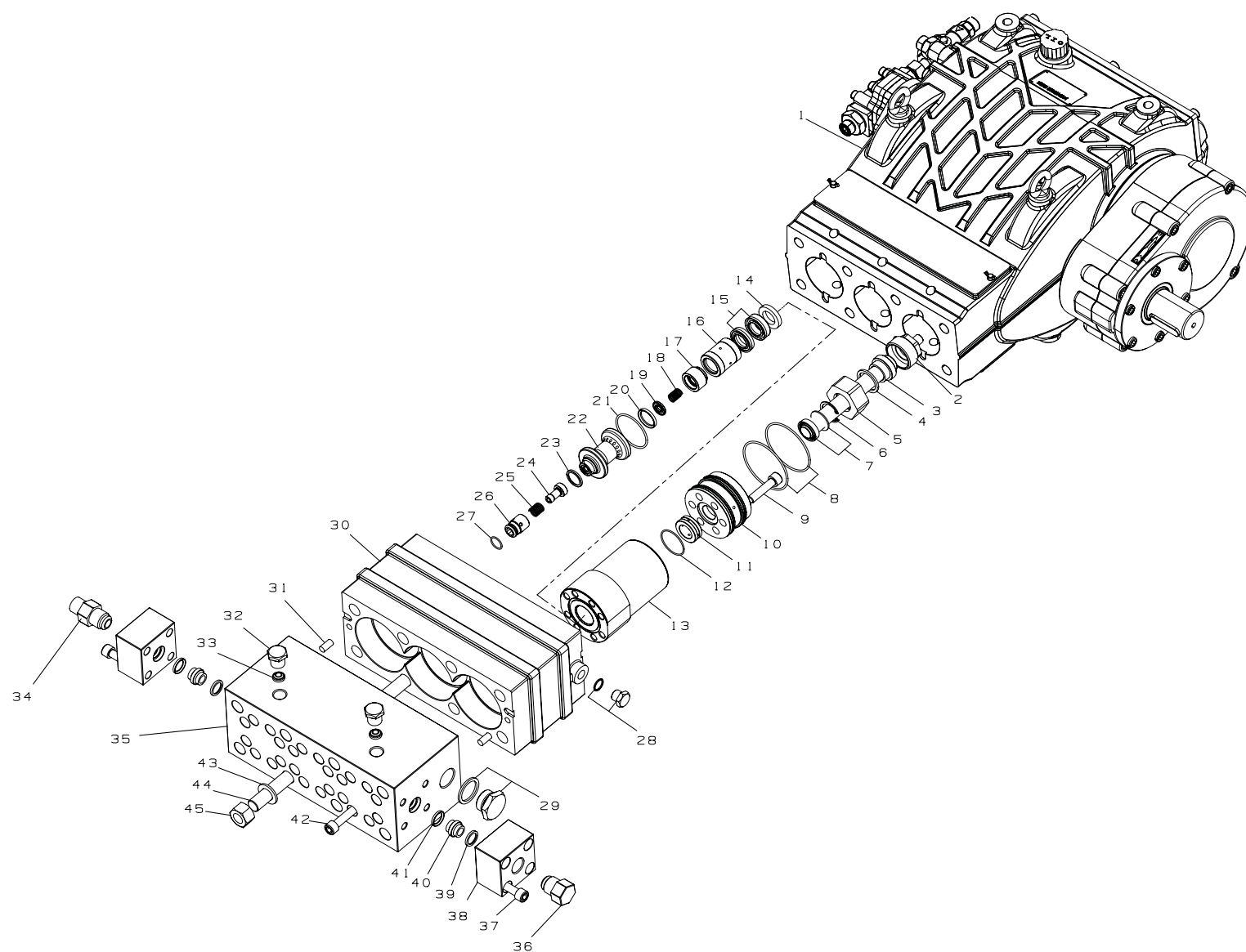
FEATURES

- The crankcase is made of a cast iron housing, providing strong durability.
- High-strength crankshaft with carburized surface treatment.
- High-strength connecting rods with bearing shells.
- The fluid end pump head is made of high-strength stainless steel, ensuring stable performance.
- The fluid end is designed for easy disassembly, reducing maintenance and downtime.

DIMENSIONS (mm)



EXPLODED VIEW



COMPONENTS

ITEM	Name	QTY	ITEM	Name	QTY	ITEM	Name	QTY
1	Crankcase with Gearbox	1	16	Seal Support Ring	3	31	Pin	2
2	Plunger Connecting Bolt	3	17	Suction Valve Seat	3	32	High-Pressure Plug	2
3	Plunger	3	18	Suction Valve Spring	3	33	High-Pressure Plug Seal Ring	2
4	Plunger Cushion Pad	3	19	Suction Valve Disc	3	34	High-Pressure Outlet Fitting	1
5	Plunger Connecting Nut	3	20	Suction Valve Body O-Ring	3	35	Pump Head	1
6	Low-Pressure Water Seal Retaining Ring	3	21	Cylinder Head Seal Ring	3	36	High-Pressure Outlet Plug	1
7	Low-Pressure Water Seal	3	22	Valve Body	3	37	Outlet Valve Block Connecting Bolt	8
8	Cooling Water Seal Ring	6	23	Discharge Valve Body O-Ring	3	38	Outlet Valve Block	2
9	High-Pressure Cylinder Connecting Bolt	18	24	Discharge Valve Disc	3	39	Outlet Valve Block Seal Ring	2
10	High-Pressure Cylinder Rear Seat	3	25	Discharge Valve Spring	3	40	Outlet Valve Block Positioning Ring	2
11	High-Pressure Cylinder Positioning Seat	3	26	Discharge Valve Seat	3	41	Outlet Valve Block Seal Ring	2
12	High-Pressure Cylinder Rear Seal Ring	3	27	Discharge Valve Seat O-Ring	3	42	Pump Head to Cylinder Connecting Bolt	24
13	High-Pressure Cylinder	3	28	Cooling Water Plug	2	43	M20 Flat Washer	8
14	Water Seal Brass Seat	3	29	Water Inlet Plug	2	44	M20 Stud Bolt	8
15	High-Pressure Water Seal	6	30	Adapter Plate	1	45	M20 Nut	8

REPAIR KITS

Index	6	7	8	12	15	19
Name	Low-Pressure Water Seal Retaining Ring	Low-Pressure Water Seal	Cooling Water Seal Ring	High-Pressure Cylinder Rear Seal Ring	High-Pressure Water Seal	Suction Valve Disc
Quantity	3	3	6	3	6	3

Index	21	23	24	27	39	41
Name	Cylinder Head Seal Ring	Discharge Valve Body O-Ring	Discharge Valve Disc	Discharge Valve Seat O-Ring	Outlet Valve Block Seal Ring	Outlet Valve Block Seal Ring
Quantity	3	3	3	3	2	

FFS Series

STAINLESS STEEL PUMP



Soloid Shaft Ø50mm

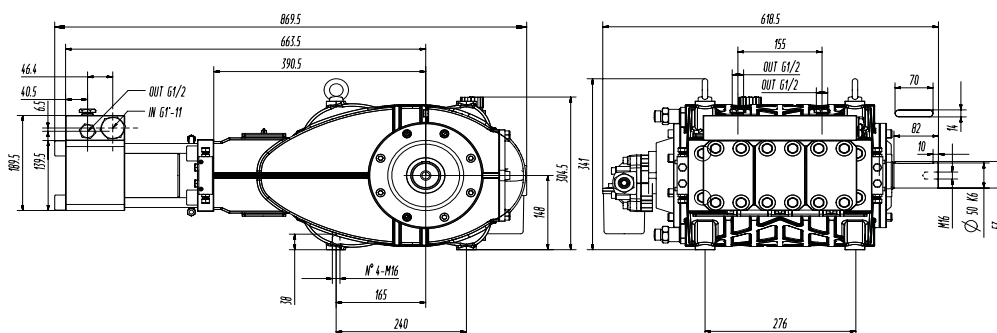
FEATURES

- High-strength stainless-steel pump head provides structural strength and corrosion resistance.
- Ductile cast-iron crankcase improves rigidity and thrust load capacity.
- Connecting rods with wear-resistant bearing shells extend service life under continuous load.
- Tapered roller bearings improve load capability and durability.
- Integrated oil cooling pump helps reduce oil temperature and supports stable long-term operation.

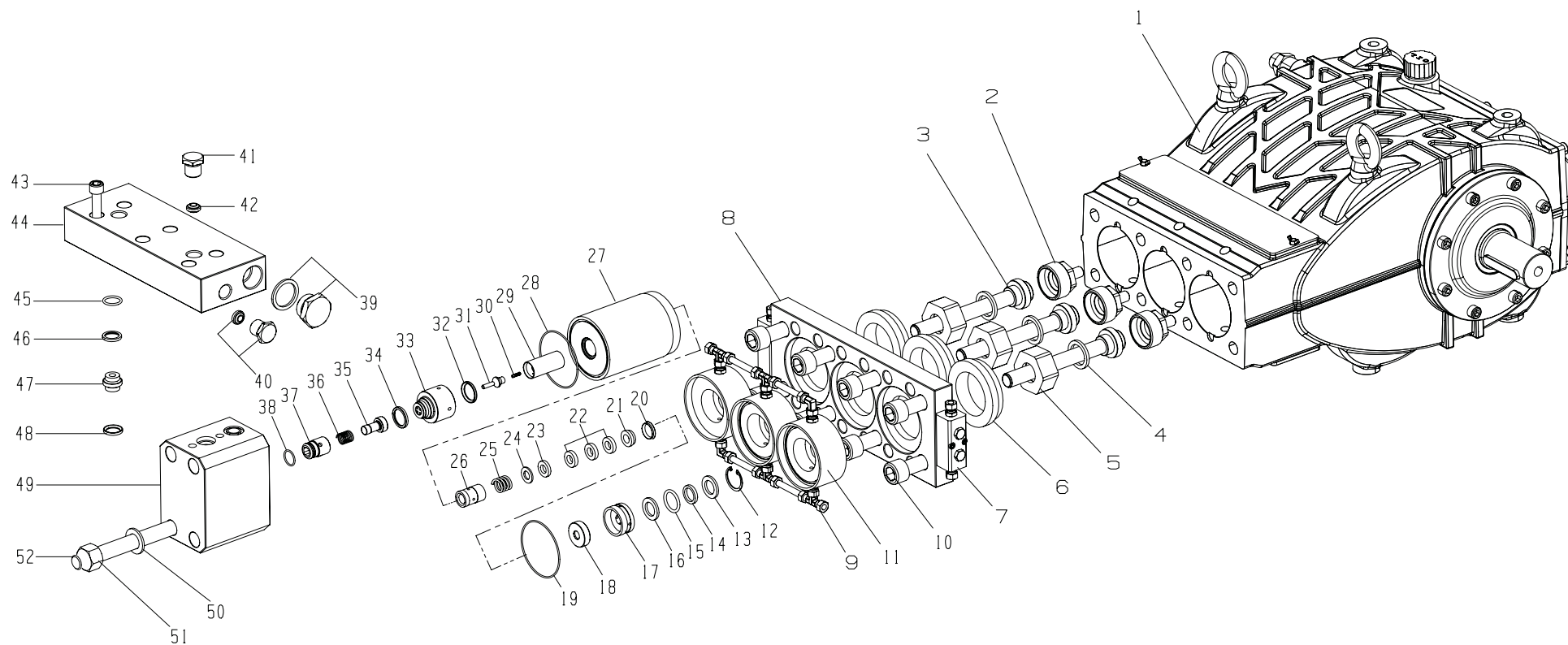
SPECIFICATIONS

Pump Model	FFS 17126	FFS 13533	FFS 11639	FFS 30150	FFS 37120	FFS 5580	FFS 45100
Flow Rate (L/min)	171	135	116	30	37	55	45
Pressure (bar)	260	330	410	1500	1200	800	1000
Power (kw)	88.5	89.1	95.1	90	88.8	88	90
RPM	600	600	600	600	600	800	800
Shaft Diameter (mm)	50						
Plunger Stroke (mm)	60						
Plunger Diameter (mm)	45	40	36	19	21	22	20
Oil Capacity (ml)	8200						
Inlet Thread	G1'1/2	G1'1/2	G1'1/2	G1'	G1'	G1'	G1'
Outlet Thread	G1'	G1'	G1'	G1/2	G1/2	G1/2	G1/2
Weight (kg)	310						
Dimensions (mm)	768X720X341						

DIMENSIONS(mm)



EXPLODED VIEW



COMPONENTS

ITEM	Name	QTY	ITEM	Name	QTY	ITEM	Name	QTY
1	Power End	1	19	End Cover O-ring	3	1	Discharge Valve Spring	3
2	Plunger connecto	3	20	Packing Support Ring	3	2	Discharge Valve Seat	3
3	Plunger	3	21	Packing	3	3	Discharge Valve O-ring	3
4	PU Gasket	3	22	Positioning Seal	9	4	Inlet Plug	1
5	Plunger Connecting Nut	3	23	Copper Washer	3	5	Discharge Plug	1
6	Locating Ring	3	24	Spring Washer	3	6	Manifold Outlet Plug	2
7	Diverter	2	25	Spring	3	7	Plug Gasket	2
8	Back Plate	1	26	Spring Seat	3	8	Cover Plate Screw	6
9	Cooling Pipe Fitting	6	27	Fluid Cylinder	3	9	Cover Plate	1
10	Back Plate Mounting Screw	8	28	Cylinder O-ring	3	10	Inlet Cover O-ring	3
11	End Cover	3	29	Suction Valve Seat	3	11	Cover Plate Outlet PEEK Seal Ring	3
12	Retaining Ring for Bore	3	30	Suction Valve Spring	3	12	Manifold Guide	3
13	Low-pressure Seal Retainer 1	3	31	Suction Valve Disc	3	13	Cover Plate Outlet PEEK Seal Ring 1	3
14	Low-pressure Water Seal	3	32	Suction Side PEEK Seal Ring	3	9	Stainless Steel Pump Head	3
15	Low-pressure Water Seal O-ring	3	33	Valve Body	3	10	Screw Washer	12
16	Low-pressure Water Retainer 2	3	34	Discharge Side PEEK Seal Ring	3	14	Nut	12
17	Packing Seat	3	35	Discharge Valve Disc	3	15	Stud	12
18	Packing Spacer	3						

REPAIR KITS

Index	3	4	14	15	19	20	21
Name	Plunger	PU Gasket	Low-Pressure Water Seal	Low-Pressure Water Seal O-Ring	End Cover O-ring	Packing Support Ring	Packing
Quantity	3	3	3	3	3	3	3

Index	22	28	31	32	33	34	35
Name	Positioning Seal	Cylinder O-ring	Suction Valve Disc	Suction Side PEEK Seal Ring	Valve Body	Discharge Side PEEK Seal Ring	Discharge Valve Disc
Quantity	9	3	3	3	3	3	3



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