FUSSEN®

High Pressure Pump Manual







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FAB Series
BRASS PUMP

FUSSEN®



Soild Shaft Ø24mm

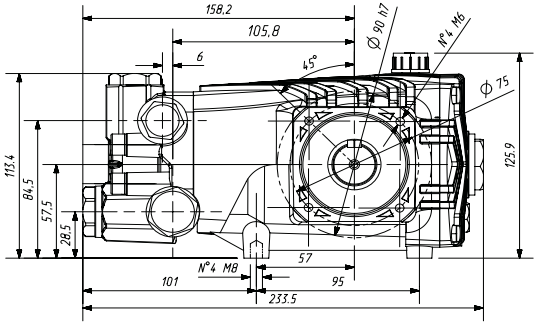
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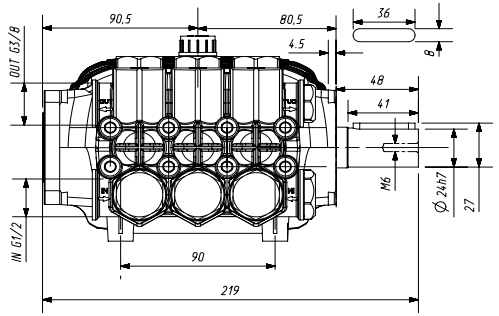
Pump Model	FAB 1017	FAB 1312	FAB 1520	FAB 1525	FAB 1820	FAB 1217	FAB 1512	FAB 1825	FAB 2120
Flow Rate (L/min)	10	13	15	15	18	12.1	15.7	18.1	21.7
Pressure (bar)	170	120	200	250	200	170	120	250	200
Power (kw)	3.4	3.1	6	7.5	7.2	4.1	3.8	9.1	8.7
RPM	1450	1450	1450	1450	1450	1750	1750	1750	1750
Shaft Diameter (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

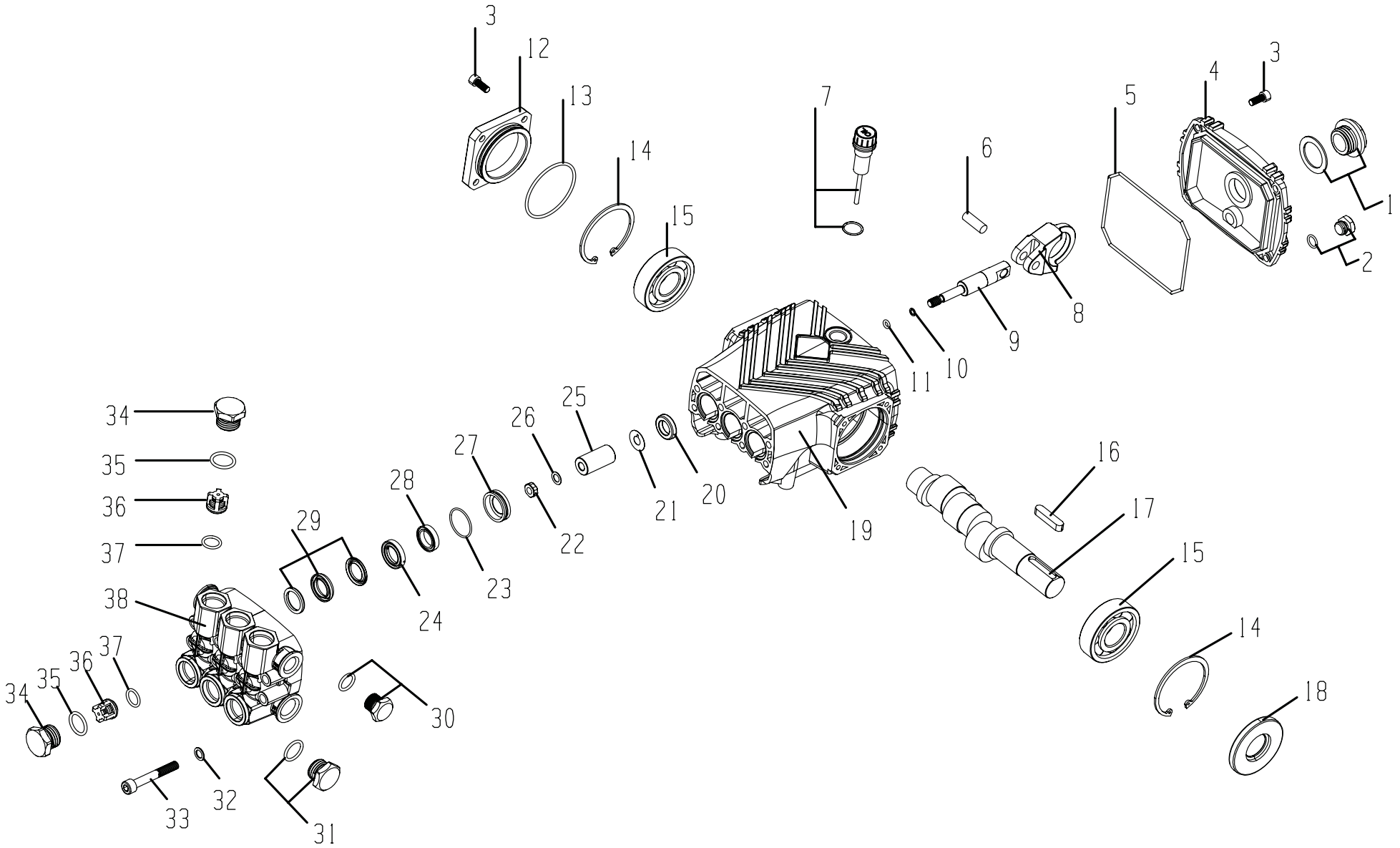
- Brass pump head provides structural strength and rust resistance.
- Low-friction alloy connecting rod supports high load capacity and reduced wear.
- Ceramic plungers with smooth surface finish for long service life.
- Check valve components made from selected materials for durability and convenient 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
1	7.906-160	Oil Slight Glass	1
2	7.400-001	Hexagon Nut	1
3	7.301-001	Hexagon Socket Bolt	8
4	7.906-011.2	Crankcase Rear Cover	1
5	7.906-005.9	Rear Cover O-Ring	1
6	7.906-033.2	Plunger Pin	3
7	7.906-034	Dipstick	1
8	7.906-001.3	Connecting Rod	3
9	7.906-002.2	Plunger Rod	3
10	7.906-008.4	45° Split Washer	3
11	7.906-019	O-Ring	3
12	7.906-011.2	Side Cover	1
13	7.906-005.8	Side Cover O-Ring	1

ITEM	PART NO.	Name	QTY
14	7.906-043	Snap Ring	2
15	7.906-014.2	Bearing	2
16	7.906-035.1	Parallel Key	1
17	7.906-025.4	Crankshaft	1
18	7.906-355	Shaft Oil Seal	1
19	7.906-011.2	Crankcase	1
20	7.906-006.2	Crankcase Oil Seal	3
21	7.906-131	Water Seal Washer	3
22	7.906-002.2	Plunger Rod Nut	3
23	7.906-005.10	Guide Seat Seal Ring	3
24	7.906-041.3	Copper Pressure Ring	3
25	7.906-003.6	Ceramic Plunger	3
26	7.906-012.3	Copper Washer	3

ITEM	PART NO.	Name	QTY
27	7.906-040.4	Guide Seat	3
28	7.906-007.7	Low Pressure Water Seal	3
29	7.906-007.6	High Pressure Water Seal	3
30	7.400-011	Stainless Steel Plug	1
31	7.400-001.2	Stainless Steel Plug	1
32	7.906-022	Double-Sided Toothed Washer	8
33	7.301-002	Hexagon Socket Bolt	8
34	7.301-003	Check Valve Nut	6
35	7.906-005.11	Check Valve Nut O-Ring	6
36	7.906-013.2	Check Valve	6
37	7.906-019.1	Check Valve O-Ring	6
38	7.906-017.2	Brass Pump Head	1

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

FABH Series
BRASS PUMP



Hollow Shaft Ø28mm

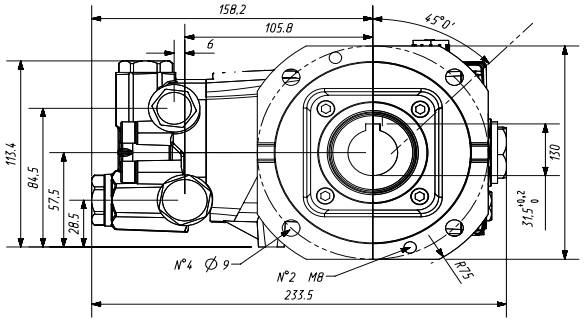
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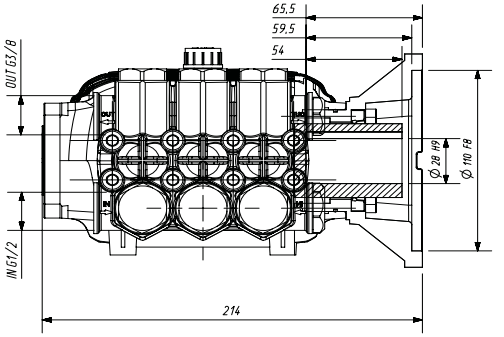
Pump Model	FABH 1017	FABH 1312	FABH 1520	FABH 1525	FABH 1820	FABH 1217	FABH 1512	FABH 1825	FABH 2120
Flow Rate (L/min)	10	13	15	15	18	12.1	15.7	18.1	21.7
Pressure (bar)	170	120	200	250	200	170	120	250	200
Power (kw)	3.4	3.1	6	7.5	7.2	4.1	3.8	9.1	8.7
RPM	1450	1450	1450	1450	1450	1750	1750	1750	1750
Shaft 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								

FEATURES

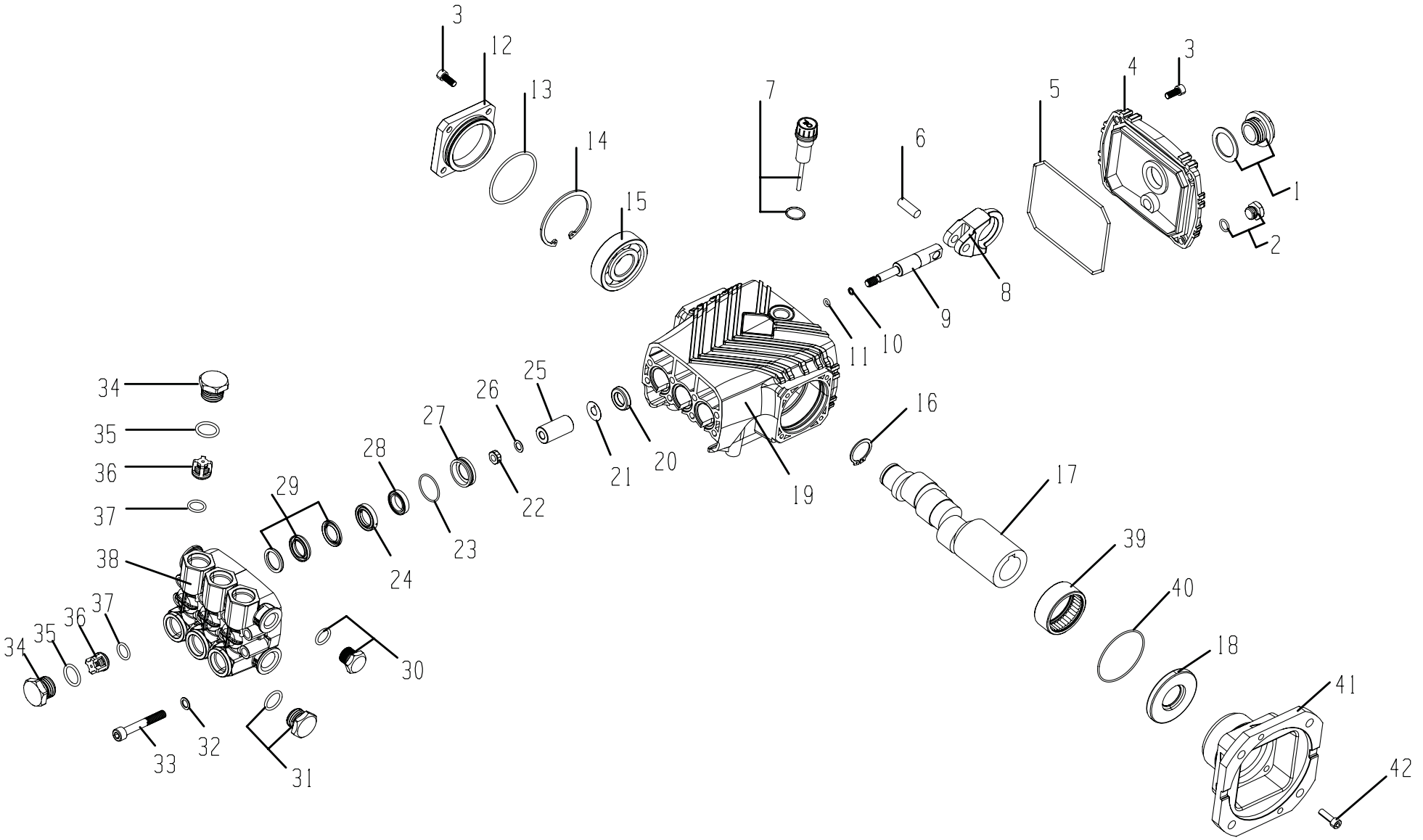
- Brass pump head provides structural strength and rust resistance.
- Low-friction alloy connecting rod supports high load capacity and reduced wear.
- Ceramic plungers with smooth surface finish for long service life.
- Check valve components made from selected materials for durability and convenient 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
1	7.906-160	Oil Slight Glass	1
2	7.400-001	Hexagonal Nut	1
3	7.301-001	Hexagon Socket Bolt	8
4	7.906-011.2	Crankcase Rear Cover	1
5	7.906-005.9	Rear Cover O-Ring	1
6	7.906-033.2	Plunger Pin	3
7	7.906-034	Dipstick	1
8	7.906-001.3	Connecting Rod	3
9	7.906-002.2	Plunger Rod	3
10	7.906-008.4	45° Split Washer	3
11	7.906-019	O-Ring	3
12	7.906-011.2	Side Cover	1
13	7.906-005.8	Side Cover O-Ring	1
14	7.906-043	Snap Ring	1

ITEM	PART NO.	Name	QTY
15	7.906-014.2	Bearing	1
16	7.906-043.3	Shaft Retaining Ring	1
17	7.906-025.6	Crankshaft	1
18	7.999-086	Shaft Oil Seal	1
19	7.906-011.2	Crankcase	1
20	7.906-006.2	Crankcase Oil Seal	3
21	7.906-131	Water Seal Washer	3
22	7.906-002.2	Plunger Rod Nut	3
23	7.906-005.10	Guide Seat Seal Ring	3
24	7.906-041.3	Copper Retaining Ring	3
25	7.906-003.6	Ceramic Plunger	3
26	7.906-012.3	Copper Washer	3
27	7.906-040.4	Guide Seat	3
28	7.906-007.7	Low Pressure Water Seal	3

ITEM	PART NO.	Name	QTY
29	7.906-007.6	High Pressure Water Seal	3
30	7.400-011	Plug	1
31	7.400-001.2	Plug	1
32	7.906-022	Double-Serrated Washer	8
33	7.301-002	Hexagon Socket Screws	8
34	7.301-003	Check Valve Nut	6
35	7.906-005.11	Check Valve Nut O-Ring	6
36	7.906-013.2	Check Valve	6
37	7.906-019.1	Check Valve O-Ring	6
38	7.906-017.2	Brass Pump Head	1
39	7.999-086	Flange Bearing	1
40	7.999-086	Flange O-Ring	1
41	7.999-086	Flange	1
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

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	7.999-086	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

FAN Series
NICKEL PLATED BRASS PUMP

FUSSEN®



Soild Shaft Ø24mm

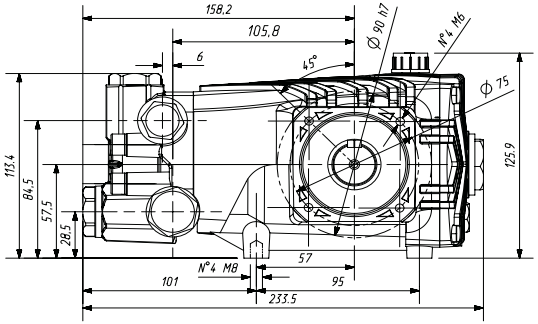
SPECIFICATIONS

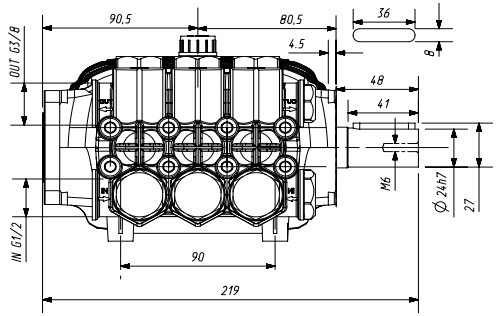
Pump Model	FAN 1017	FAN 1312	FAN 1520	FAN 1525	FAN 1820	FAN 1217	FAN 1512	FAN 1825	FAN 2120
Flow Rate (L/min)	10	13	15	15	18	12.1	15.7	18.1	21.7
Pressure (bar)	170	120	200	250	200	170	120	250	200
Power (kw)	3.4	3.1	6	7.5	7.2	4.1	3.8	9.1	8.7
RPM	1450	1450	1450	1450	1450	1750	1750	1750	1750
Shaft Diameter (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

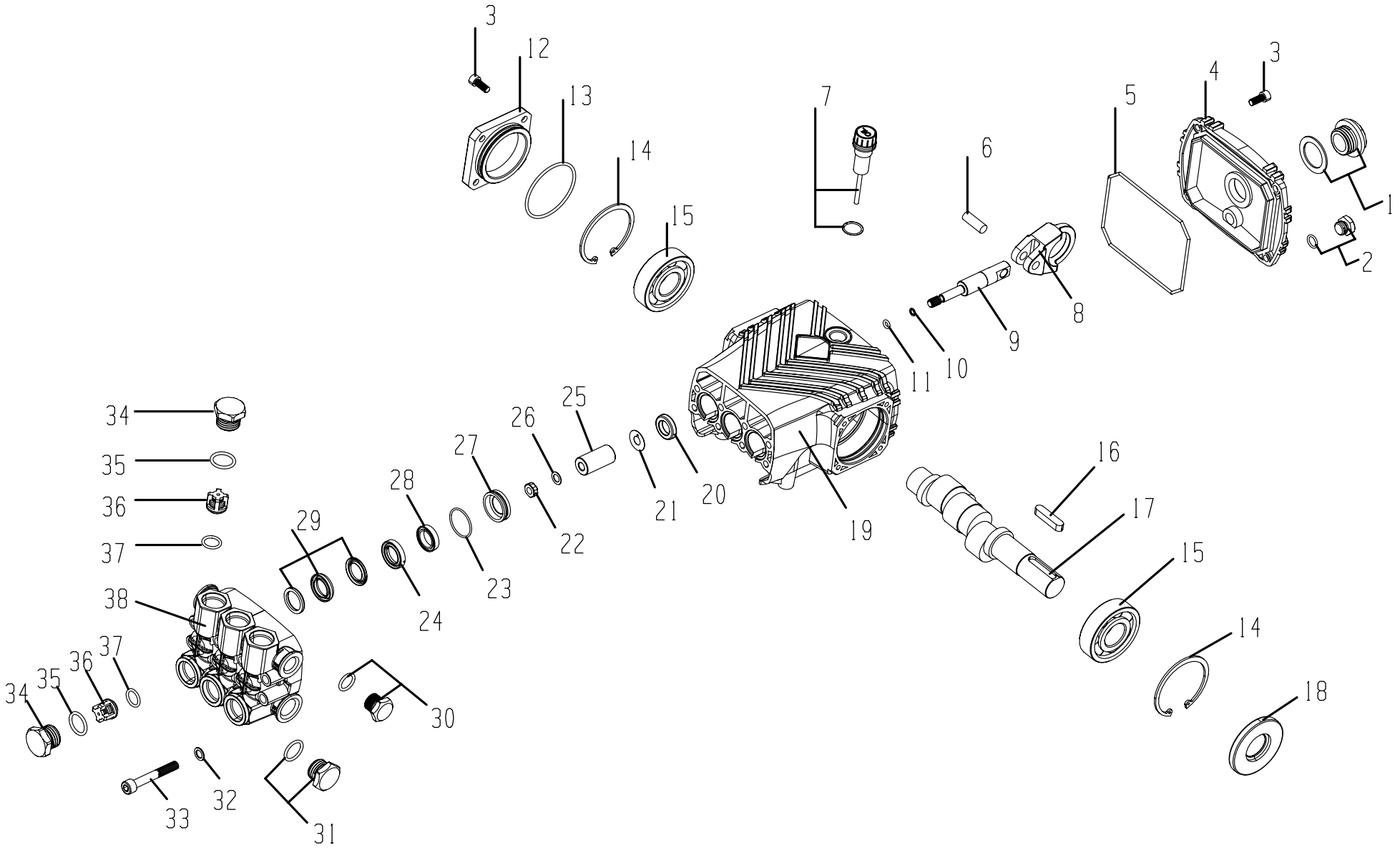
- Nickel-plated brass pump head provides structural strength and improved corrosion resistance.
- Low-friction alloy connecting rod supports high load capacity and reduced wear.
- Ceramic plungers with smooth surface finish for long service life.
- Check valve components made from selected materials 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
1	7.906-160	Oil Slight Glass	1
2	7.400-001	Hexagon Nut	1
3	7.301-001	Hexagon Socket Bolt	8
4	7.906-011.2	Crankcase Rear Cover	1
5	7.906-005.9	Rear Cover O-Ring	1
6	7.906-033.2	Plunger Pin	3
7	7.906-034	Dipstick	1
8	7.906-001.3	Connecting Rod	3
9	7.906-002.2	Plunger Rod	3
10	7.906-008.4	45° Split Washer	3
11	7.906-019	O-Ring	3
12	7.906-011.2	Side Cover	1
13	7.906-005.8	Side Cover O-Ring	1

ITEM	PART NO.	Name	QTY
14	7.906-043	Snap Ring	2
15	7.906-014.2	Bearing	2
16	7.906-035.1	Parallel Key	1
17	7.906-025.4	Crankshaft	1
18	7.906-355	Shaft Oil Seal	1
19	7.906-011.2	Crankcase	1
20	7.906-006.2	Crankcase Oil Seal	3
21	7.906-131	Water Seal Washer	3
22	7.906-002.2	Plunger Rod Nut	3
23	7.906-005.10	Guide Seat Seal Ring	3
24	7.906-041.3	Copper Pressure Ring	3
25	7.906-003.6	Ceramic Plunger	3
26	7.906-012.3	Copper Washer	3

ITEM	PART NO.	Name	QTY
27	7.906-040.4	Guide Seat	3
28	7.906-007.7	Low Pressure Water Seal	3
29	7.906-007.6	High Pressure Water Seal	3
30	7.400-011	Stainless Steel Plug	1
31	7.400-001.2	Stainless Steel Plug	1
32	7.906-022	Double-Sided Toothed Washer	8
33	7.301-002	Hexagon Socket Bolt	8
34	7.301-003	Check Valve Nut	6
35	7.906-005.11	Check Valve Nut O-Ring	6
36	7.906-013.2	Check Valve	6
37	7.906-019.1	Check Valve O-Ring	6
38	7.906-017.2	Nickel Plated Brass Pump Head	1

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

FANH Series
NICKEL PLATED BRASS PUMP

FUSSEN®



Hollow Shaft Ø28mm

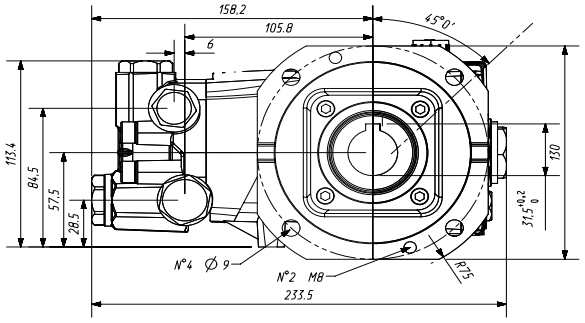
SPECIFICATIONS

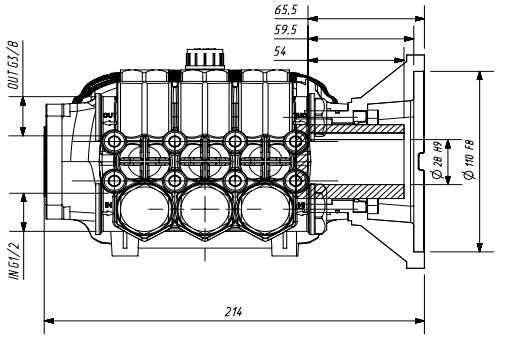
Pump Model	FANH 1017	FANH 1312	FANH 1520	FANH 1525	FANH 1820	FANH 1217	FANH 1512	FANH 1825	FANH 2120
Flow Rate (L/min)	10	13	15	15	18	12.1	15.7	18.1	21.7
Pressure (bar)	170	120	200	250	200	170	120	250	200
Power (kw)	3.4	3.1	6	7.5	7.2	4.1	3.8	9.1	8.7
RPM	1450	1450	1450	1450	1450	1750	1750	1750	1750
Shaft 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								

FEATURES

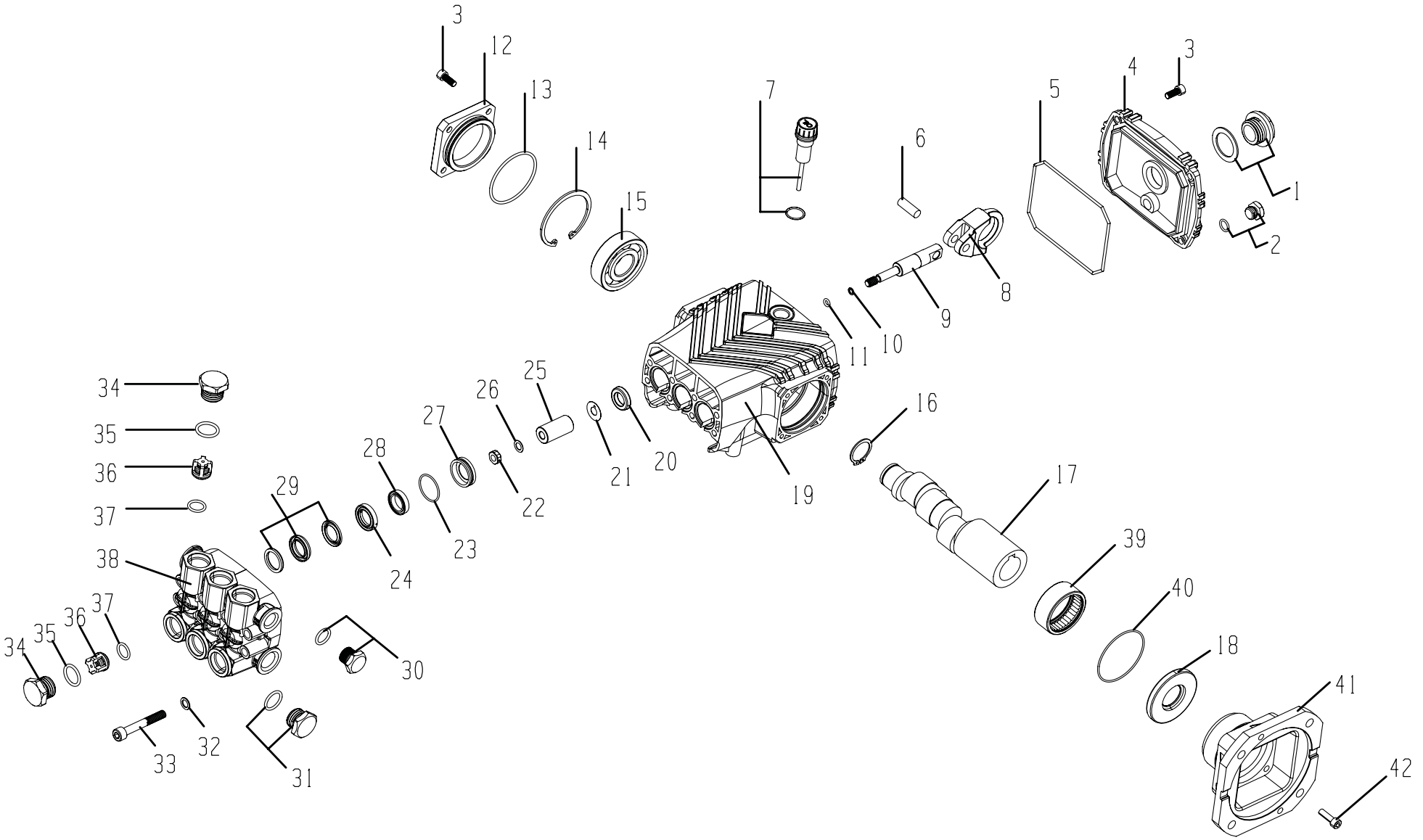
- Nickel-plated brass pump head provides structural strength and improved corrosion resistance.
- Low-friction alloy connecting rod supports high load capacity and reduced wear.
- Ceramic plungers with smooth surface finish for long service life.
- Check valve components made from selected materials 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
1	7.906-160	Oil Slight Glass	1
2	7.400-001	Hexagonal Nut	1
3	7.301-001	Hexagon Socket Bolt	8
4	7.906-011.2	Crankcase Rear Cover	1
5	7.906-005.9	Rear Cover O-Ring	1
6	7.906-033.2	Plunger Pin	3
7	7.906-034	Dipstick	1
8	7.906-001.3	Connecting Rod	3
9	7.906-002.2	Plunger Rod	3
10	7.906-008.4	45° Split Washer	3
11	7.906-019	O-Ring	3
12	7.906-011.2	Side Cover	1
13	7.906-005.8	Side Cover O-Ring	1
14	7.906-043	Snap Ring	1

ITEM	PART NO.	Name	QTY
15	7.906-014.2	Bearing	1
16	7.906-043.3	Shaft Retaining Ring	1
17	7.906-025.6	Crankshaft	1
18	7.999-086	Shaft Oil Seal	1
19	7.906-011.2	Crankcase	1
20	7.906-006.2	Crankcase Oil Seal	3
21	7.906-131	Water Seal Washer	3
22	7.906-002.2	Plunger Rod Nut	3
23	7.906-005.10	Guide Seat Seal Ring	3
24	7.906-041.3	Copper Retaining Ring	3
25	7.906-003.6	Ceramic Plunger	3
26	7.906-012.3	Copper Washer	3
27	7.906-040.4	Guide Seat	3
28	7.906-007.7	Low Pressure Water Seal	3

ITEM	PART NO.	Name	QTY
29	7.906-007.6	High Pressure Water Seal	3
30	7.400-011	Plug	1
31	7.400-001.2	Plug	1
32	7.906-022	Double-Serrated Washer	8
33	7.301-002	Hexagon Socket Screws	8
34	7.301-003	Check Valve Nut	6
35	7.906-005.11	Check Valve Nut O-Ring	6
36	7.906-013.2	Check Valve	6
37	7.906-019.1	Check Valve O-Ring	6
38	7.906-017.2	Nickel Plated Brass Pump Head	1
39	7.999-086	Flange Bearing	1
40	7.999-086	Flange O-Ring	1
41	7.999-086	Flange	1
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

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	7.999-086	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

FAS Series
STAINLESS STEEL PUMP

FUSSEN®



Soild Shaft Ø24mm

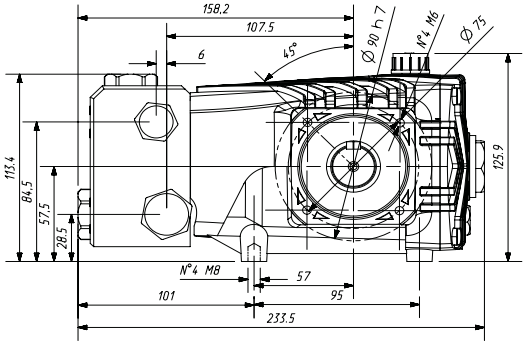
SPECIFICATIONS

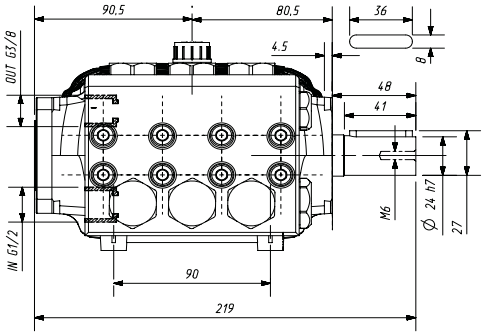
Pump Model	FAS 1017	FAS 1312	FAS 1520	FAS 1525	FAS 1820	FAS 1217	FAS 1512	FAS 1825	FAS 2120
Flow Rate (L/min)	10	13	15	15	18	12.1	15.7	18.1	21.7
Pressure (bar)	170	120	200	250	200	170	120	250	200
Power (kw)	3.4	3.1	6	7.5	7.2	4.1	3.8	9.1	8.7
RPM	1450	1450	1450	1450	1450	1750	1750	1750	1750
Shaft Diameter (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

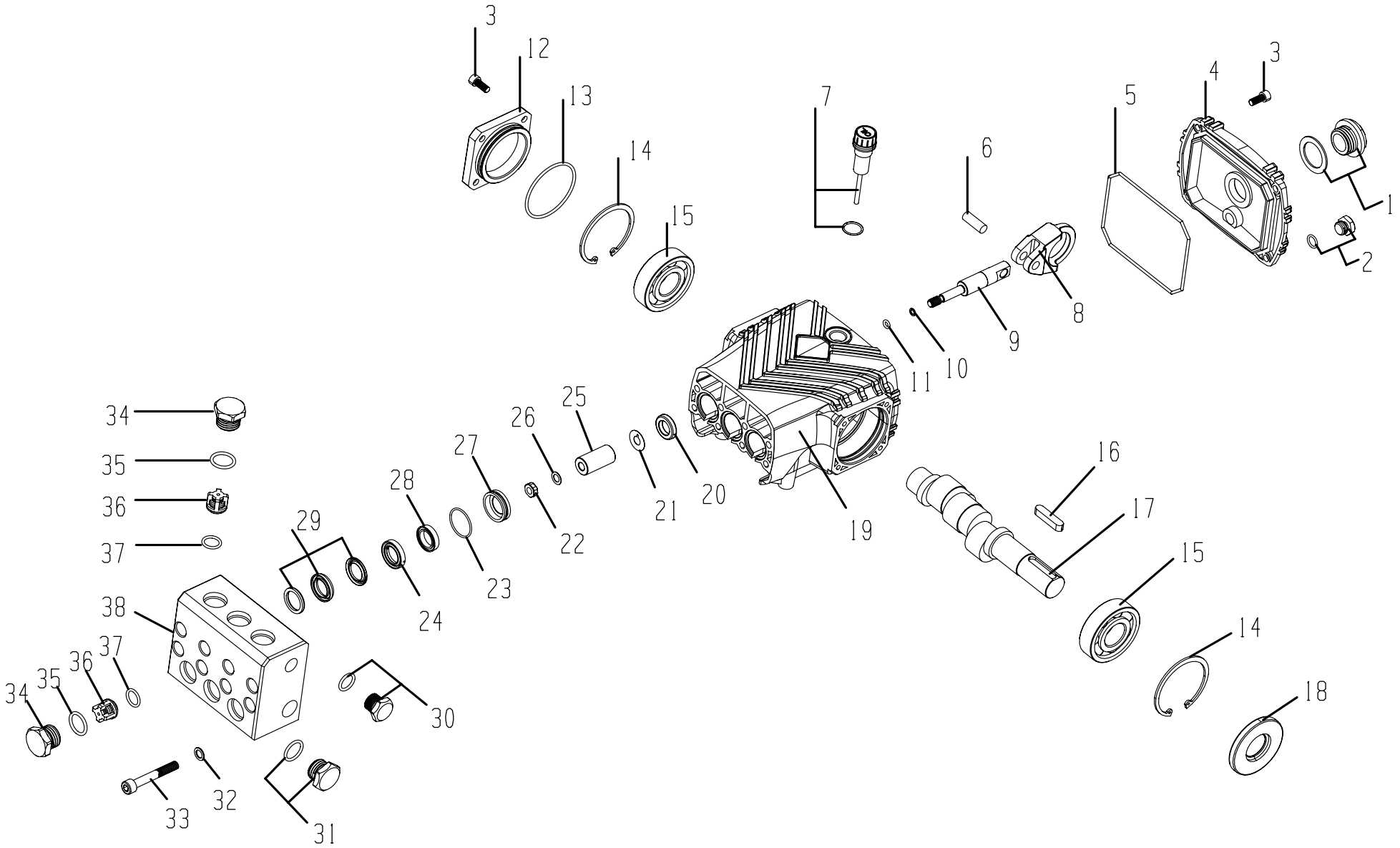
- Stainless-steel pump head provides structural strength and corrosion resistance.
- Low-friction alloy connecting rod supports high load capacity and reduced wear.
- Ceramic plungers with smooth surface finish for long service life.
- Check valve components made from selected materials for durability 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
1	7.906-160	Oil Slight Glass	1
2	7.400-001	Hexagon Nut	1
3	7.301-001	Hexagon Socket Bolt	8
4	7.906-011.2	Crankcase Rear Cover	1
5	7.906-005.9	Rear Cover O-Ring	1
6	7.906-033.2	Plunger Pin	3
7	7.906-034	Dipstick	1
8	7.906-001.3	Connecting Rod	3
9	7.906-002.2	Plunger Rod	3
10	7.906-008.4	45° Split Washer	3
11	7.906-019	O-Ring	3
12	7.906-011.2	Side Cover	1
13	7.906-005.8	Side Cover O-Ring	1

ITEM	PART NO.	Name	QTY
14	7.906-043	Snap Ring	2
15	7.906-014.2	Bearing	2
16	7.906-035.1	Parallel Key	1
17	7.906-025.4	Crankshaft	1
18	7.906-355	Shaft Oil Seal	1
19	7.906-011.2	Crankcase	1
20	7.906-006.2	Crankcase Oil Seal	3
21	7.906-131	Water Seal Washer	3
22	7.906-002.2	Plunger Rod Nut	3
23	7.906-005.10	Guide Seat Seal Ring	3
24	7.906-041.3	Copper Pressure Ring	3
25	7.906-003.6	Ceramic Plunger	3
26	7.906-012.3	Copper Washer	3

ITEM	PART NO.	Name	QTY
27	7.906-040.4	Guide Seat	3
28	7.906-007.7	Low Pressure Water Seal	3
29	7.906-007.6	High Pressure Water Seal	3
30	7.400-011	Stainless Steel Plug	1
31	7.400-001.2	Stainless Steel Plug	1
32	7.906-022	Double-Sided Toothed Washer	8
33	7.301-002	Hexagon Socket Bolt	8
34	7.301-003	Check Valve Nut	6
35	7.906-005.11	Check Valve Nut O-Ring	6
36	7.906-013.2	Check Valve	6
37	7.906-019.1	Check Valve O-Ring	6
38	7.906-017.2	Stainless Steel Pump Head	1

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

FUSSEN®



Hollow Shaft Ø28mm

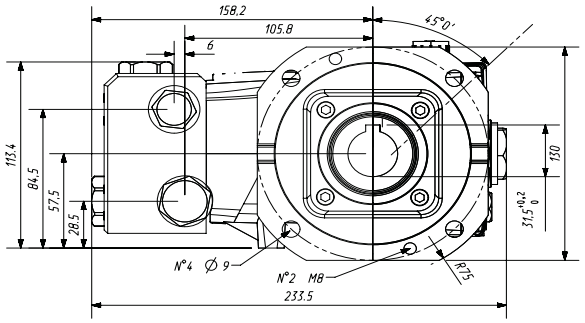
SPECIFICATIONS

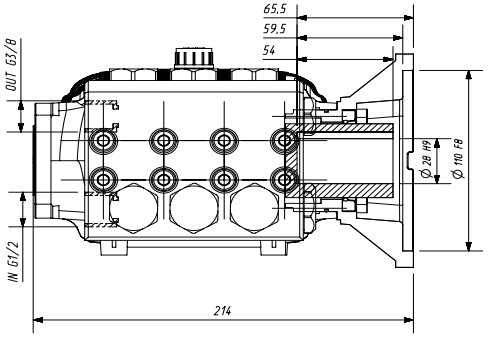
Pump Model	FASH 1017	FASH 1312	FASH 1520	FASH 1525	FASH 1820	FASH 1217	FASH 1512	FASH 1825	FASH 2120
Flow Rate (L/min)	10	13	15	15	18	12.1	15.7	18.1	21.7
Pressure (bar)	170	120	200	250	200	170	120	250	200
Power (kw)	3.4	3.1	6	7.5	7.2	4.1	3.8	9.1	8.7
RPM	1450	1450	1450	1450	1450	1750	1750	1750	1750
Shaft 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

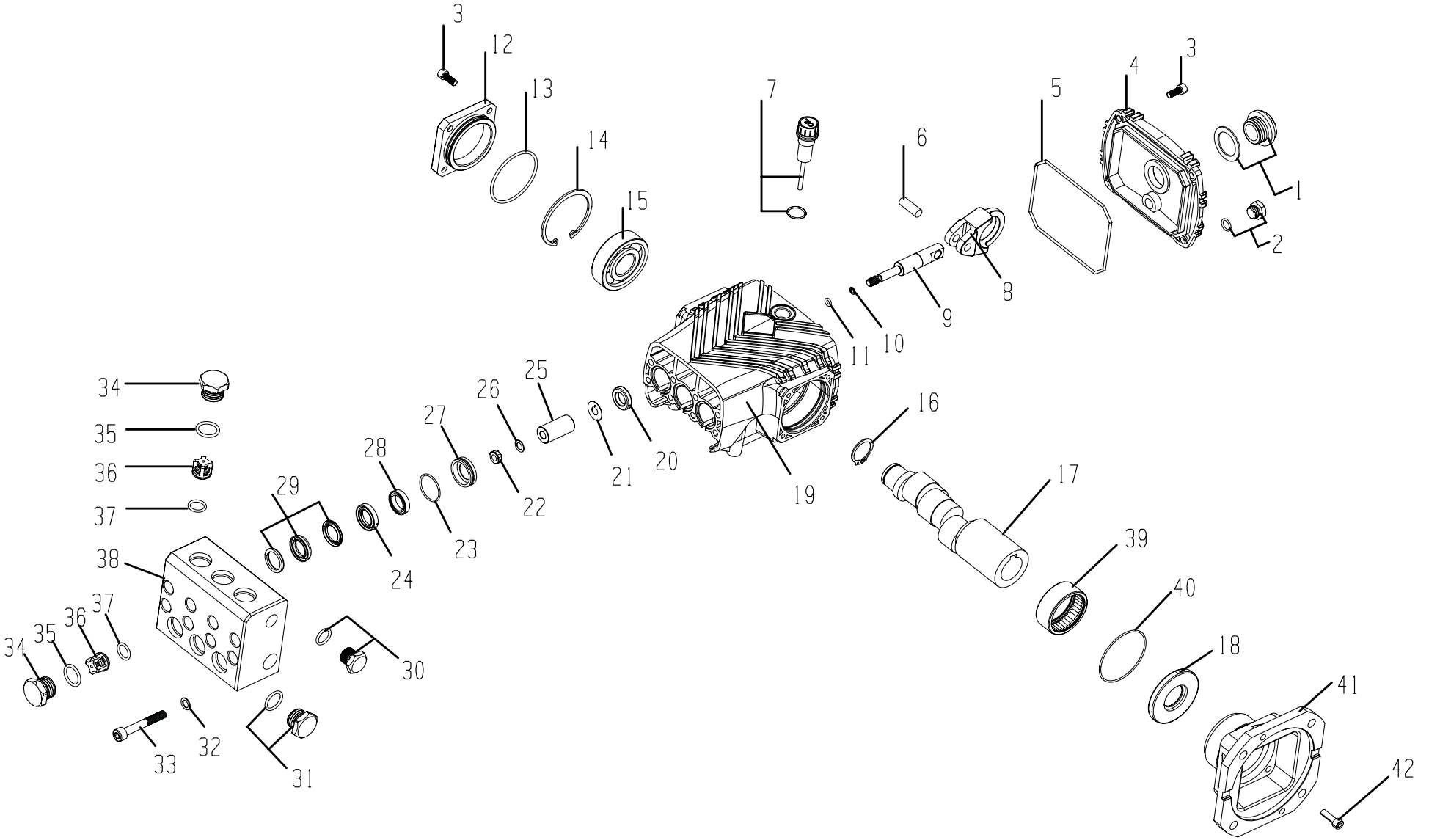
- Stainless-steel pump head provides structural strength and corrosion resistance.
- Low-friction alloy connecting rod supports high load capacity and reduced wear.
- Ceramic plungers with smooth surface finish for long service life.
- Check valve components made from selected materials for durability 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
1	7.906-160	Oil Slight Glass	1
2	7.400-001	Hexagonal Nut	1
3	7.301-001	Hexagon Socket Bolt	8
4	7.906-011.2	Crankcase Rear Cover	1
5	7.906-005.9	Rear Cover O-Ring	1
6	7.906-033.2	Plunger Pin	3
7	7.906-034	Dipstick	1
8	7.906-001.3	Connecting Rod	3
9	7.906-002.2	Plunger Rod	3
10	7.906-008.4	45° Split Washer	3
11	7.906-019	O-Ring	3
12	7.906-011.2	Side Cover	1
13	7.906-005.8	Side Cover O-Ring	1
14	7.906-043	Snap Ring	1

ITEM	PART NO.	Name	QTY
15	7.906-014.2	Bearing	1
16	7.906-043.3	Shaft Retaining Ring	1
17	7.906-025.6	Crankshaft	1
18	7.999-086	Shaft Oil Seal	1
19	7.906-011.2	Crankcase	1
20	7.906-006.2	Crankcase Oil Seal*	3
21	7.906-131	Water Seal Washer	3
22	7.906-002.2	Plunger Rod Nut	3
23	7.906-005.10	Guide Seat Seal Ring	3
24	7.906-041.3	Copper Retaining Ring	3
25	7.906-003.6	Ceramic Plunger	3
26	7.906-012.3	Copper Washer	3
27	7.906-040.4	Guide Seat	3
28	7.906-007.7	Low Pressure Water Seal	3

ITEM	PART NO.	Name	QTY
29	7.906-007.6	High Pressure Water Seal	3
30	7.400-011	Plug	1
31	7.400-001.2	Plug	1
32	7.906-022	Double-Sided Toothed Washer	8
33	7.301-002	Hexagon Socket Bolt	8
34	7.301-003	Check Valve Nut	6
35	7.906-005.11	Check Valve Nut O-Ring	6
36	7.906-013.2	Check Valve	6
37	7.906-019.1	Check Valve O-Ring	6
38	7.906-017.2	Stainlesss Steel Pump Head	1
39	7.999-086	Flange Bearing	1
40	7.999-086	Flange O-Ring	1
41	7.999-086	Flange	1
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

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	7.999-086	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

FBB Series
BRASS PUMP



Soild Shaft Ø24mm

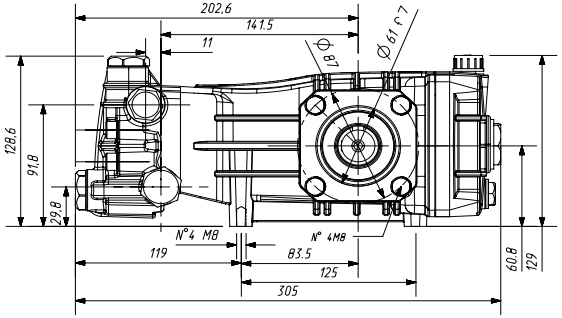
SPECIFICATIONS

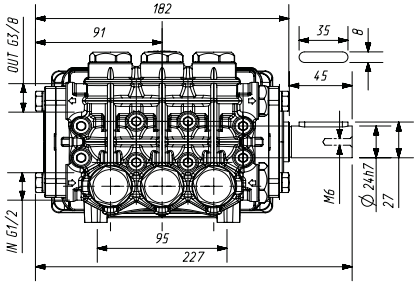
Pump Model	FBB 1035	FBB 1530	FBB 1535	FBB 1828	FBB 2125	FBB 1235	FBB 1825	FBB 1835	FBB 2128	FBB 2525
Flow Rate (L/min)	10	15	15	18	21	12.1	18.1	18.1	21.7	25.3
Pressure (bar)	350	300	350	280	250	350	250	350	280	250
Power (kw)	7	9	10.5	10.1	10.5	8.4	9.1	12.7	12.2	12.7
RPM	1450	1450	1450	1450	1450	1750	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

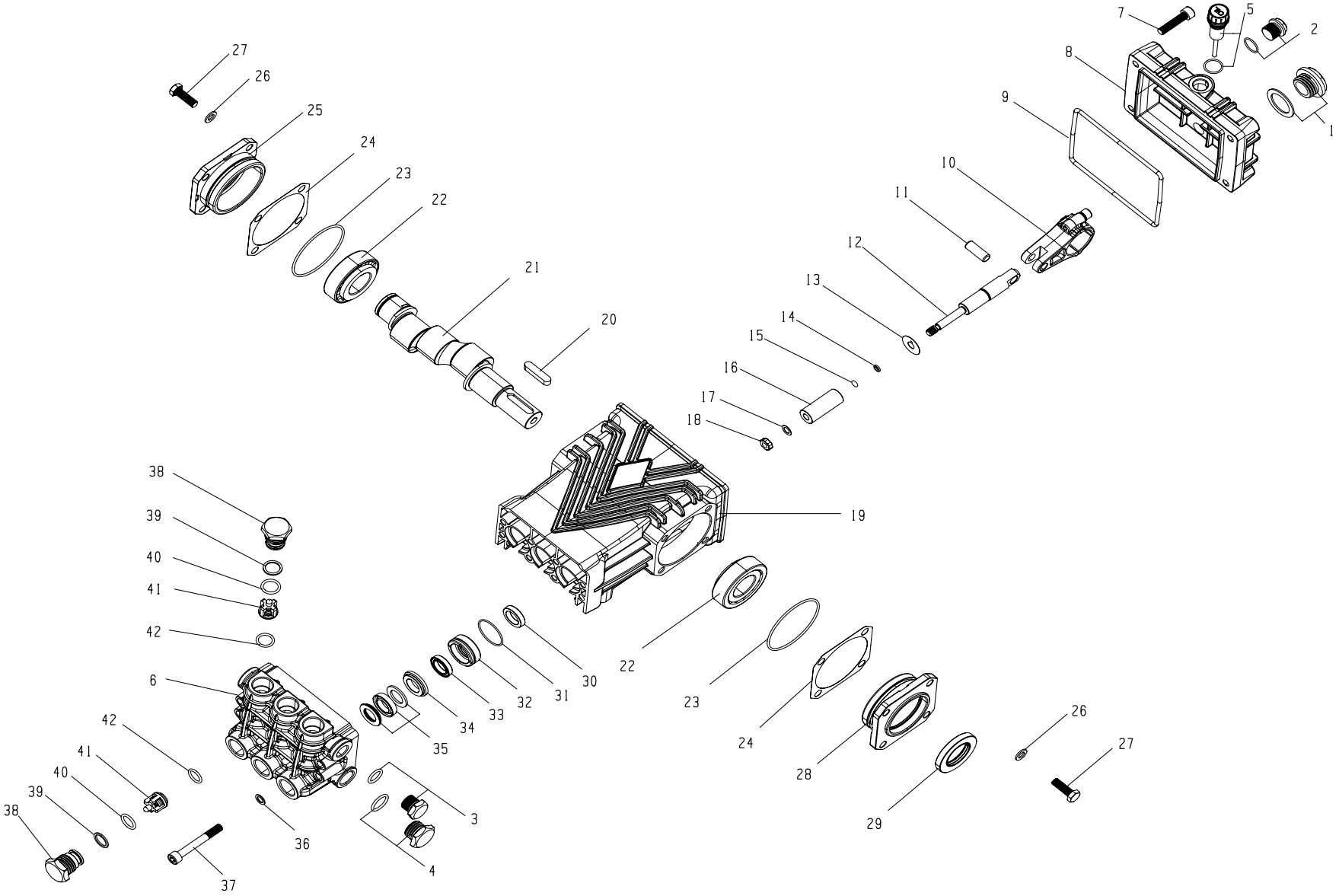
- Brass pump head provides structural strength and rust resistance.
- Forged crankshaft with surface nitriding improves strength and wear resistance.
- Low-friction alloy connecting rod supports high load capacity.
- Tapered roller bearings improve load capability and durability.
- Ceramic plungers with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

DIMENSIONS (mm)





EXPLODED VIEW



COMPONENTS

ITEM	PART NO.	Name	QTY
1	7.906-160	Oil Sight Glass	1
2	7.400-011.1	Plug	1
3	7.400-011	Plug	1
4	7.400-001.2	Plug	1
5	7.906-034	Dipstick	1
6	7.906-017.1	Brass Pump Head	1
7	7.301-004	Hexagon Socket Bolt	4
8	7.906-011.1	Rear Cover	1
9	7.906-019.4	Rear Cover O-Ring	1
10	7.906-001.5	Connecting Rod	3
11	7.906-033.1	Plunger Pin	3
12	7.906-002.3	Plunger Rod	3
13	7.906-008.8	Water Seal Washer	3
14	7.906-008.4	Retaining Ring	3

ITEM	PART NO.	Name	QTY
15	7.906-019	O-Ring	3
16	7.906-003.1	Ceramic Plunger	3
17	7.906-012.3	Copper Washer	3
18	7.906-033.1	Plunger Rod Nut	3
19	7.906-011.1	Crankcase	1
20	7.906-035	Parallel Key	1
21	7.906-025	Crankshaft	1
22	7.906-014	Tapered Roller Bearings	2
23	7.906-005.3	End Cover Seal	2
24	7.906-010.5	Adjusting Washer	2
25	7.906-011.1	Side Cover	1
26	7.906-022	Double-Sided Toothed Washer	8
27	7.301-009	Hexagon Bolt	8
28	7.906-011.1	Side Cover	1

ITEM	PART NO.	Name	QTY
29	7.906-006	Rotating Oil Seal	1
30	7.906-006.2	Crankcase Oil Seal	3
31	7.906-019.3	Guide Seat O-Ring	3
32	7.906-040.3	Guide Seat	3
33	7.906-352	Low Pressure Water Seal	3
34	7.906-041.2	Copper Pressure Ring	3
35	7.906-007.5	High Pressure Water Seal	3
36	7.906-022	Double-Sided Toothed Washer	8
37	7.301-005	Hexagon Socket Bolt	8
38	7.301-046	Check Valve Screw	6
39	7.906-008.3	Check Valve Screw Retaining Ring	6
40	7.906-019.2	Check Valve Screw O-Ring	6
41	7.906-013.2	Check Valve	6
42	7.906-019.1	Check Valve O-Ring	6

REPAIR KITS

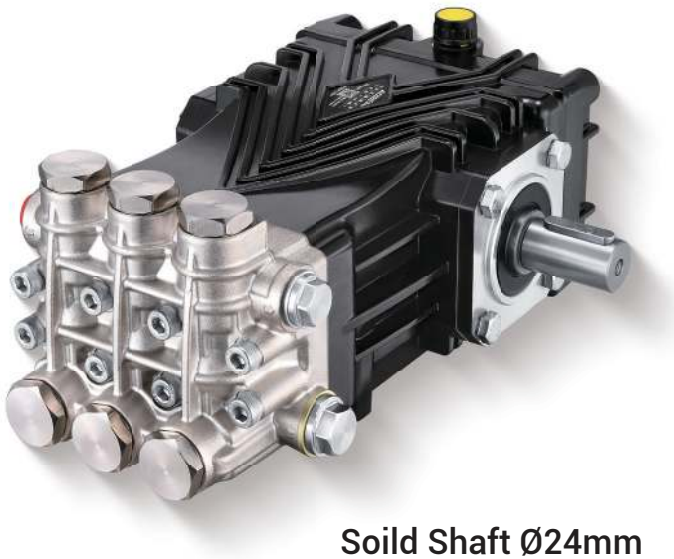
Water Seal Kit		
Index	33	35
Part Number	7.906-352	7.906-007.5
Name	Low Pressure Water Seal	High Pressure Water Seal
Quantity	3	3

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

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

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

FBN Series
NICKEL PLATED BRASS PUMP



Soild Shaft Ø24mm

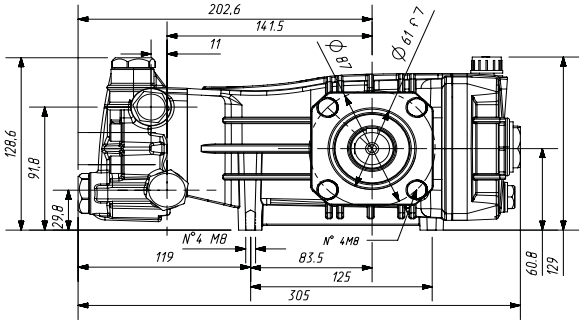
SPECIFICATIONS

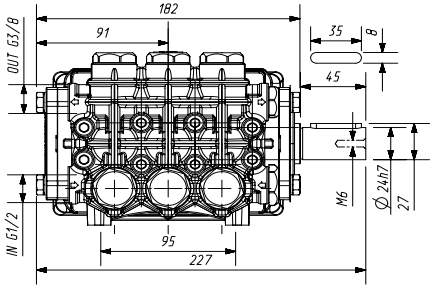
Pump Model	FBN 1035	FBN 1530	FBN 1535	FBN 1828	FBN 2125	FBN 1235	FBN 1825	FBN 1835	FBN 2128	FBN 2525	FBN 3620
Flow Rate (L/min)	10	15	15	18	21	12.1	18.1	18.1	21.7	25.3	36.2
Pressure (bar)	350	300	350	280	250	350	250	350	280	250	200
Power (kw)	7	9	10.5	10.1	10.5	8.4	9.1	12.7	12.2	12.7	14.5
RPM	1450	1450	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										

FEATURES

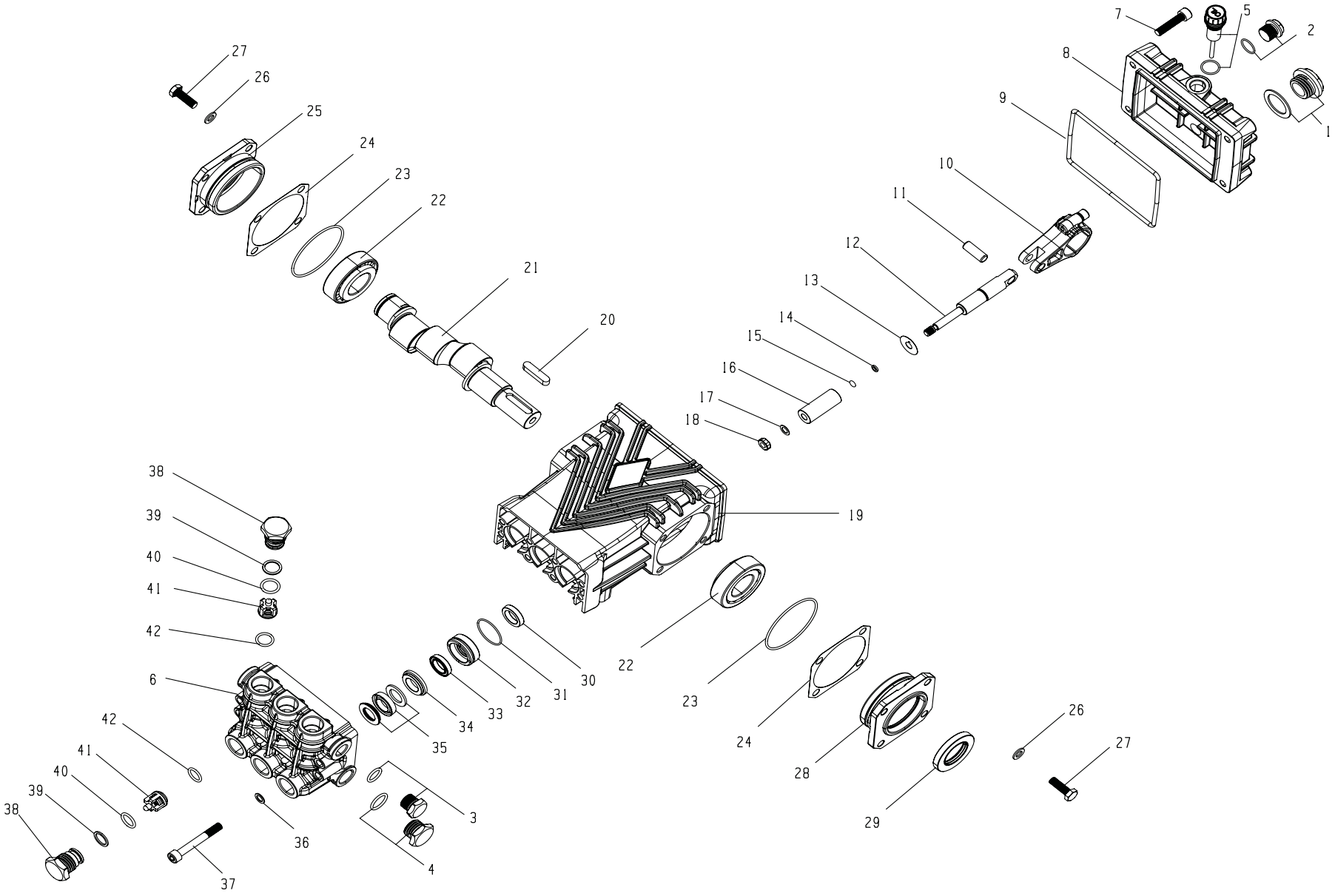
- Nickel-plated brass pump head provides structural strength and improved corrosion resistance.
- Forged crankshaft with surface nitriding improves strength and wear resistance.
- Low-friction alloy connecting rod supports high load capacity.
- Tapered roller bearings improve load capability and durability.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

DIMENSIONS (mm)





EXPLODED VIEW



COMPONENTS

ITEM	PART NO.	Name	QTY
1	7.906-160	Oil Sight Glass	1
2	7.400-011.1	Plug	1
3	7.400-011	Plug	1
4	7.400-001.2	Plug	1
5	7.906-034	Dipstick	1
6	7.906-017.1	Nickel Plated Brass Pump Head	1
7	7.301-004	Hexagon Socket Bolt	4
8	7.906-011.1	Rear Cover	1
9	7.906-019.4	Rear Cover O-Ring	1
10	7.906-001.5	Connecting Rod	3
11	7.906-033.1	Plunger Pin	3
12	7.906-002.3	Plunger Rod	3
13	7.906-008.8	Water Seal Washer	3
14	7.906-008.4	Retaining Ring	3

ITEM	PART NO.	Name	QTY
15	7.906-019	O-Ring	3
16	7.906-003.1	Ceramic Plunger	3
17	7.906-012.3	Copper Washer	3
18	7.906-033.1	Plunger Rod Nut	3
19	7.906-011.1	Crankcase	1
20	7.906-035	Parallel Key	1
21	7.906-025	Crankshaft	1
22	7.906-014	Tapered Roller Bearings	2
23	7.906-005.3	End Cover Seal	2
24	7.906-010.5	Adjusting Washer	2
25	7.906-011.1	Side Cover	1
26	7.906-022	Double-Sided Toothed Washer	8
27	7.301-009	Hexagon Bolt	8
28	7.906-011.1	Side Cover	1

ITEM	PART NO.	Name	QTY
29	7.906-006	Rotating Oil Seal	1
30	7.906-006.2	Crankcase Oil Seal	3
31	7.906-019.3	Guide Seat O-Ring	3
32	7.906-040.3	Guide Seat	3
33	7.906-352	Low Pressure Water Seal	3
34	7.906-041.2	Copper Pressure Ring	3
35	7.906-007.5	High Pressure Water Seal	3
36	7.906-022	Double-Sided Toothed Washer	8
37	7.301-005	Hexagon Socket Bolt	8
38	7.301-046	Check Valve Screw	6
39	7.906-008.3	Check Valve Screw Retaining Ring	6
40	7.906-019.2	Check Valve Screw O-Ring	6
41	7.906-013.2	Check Valve	6
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

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

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

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

FUSSEN®



Soild Shaft Ø24mm

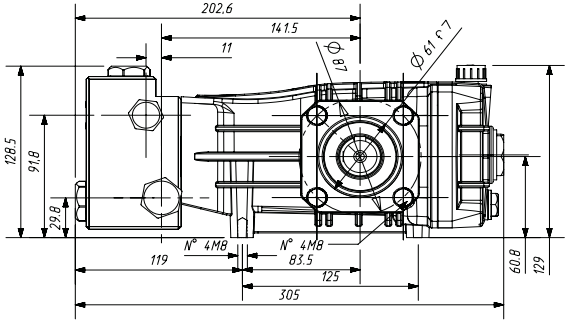
SPECIFICATIONS

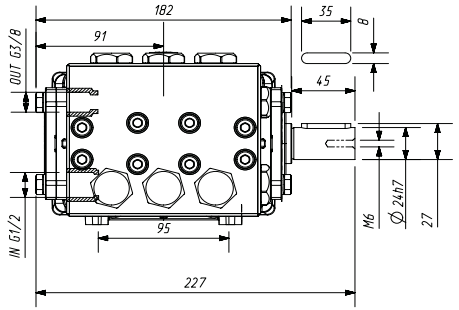
Pump Model	FBS 1035	FBS 1530	FBS 1535	FBS 1828	FBS 2125	FBS 3020	FBS 1235	FBS 1825	FBS 1835	FBS 2128	FBS 2525	FBS 3620
Flow Rate (L/min)	10	15	15	18	21	30	12.1	18.1	18.1	21.7	25.3	36.2
Pressure (bar)	350	300	350	280	250	200	350	250	350	280	250	200
Power (kw)	7	9	10.5	10.1	10.5	12	8.4	9.1	12.7	12.2	12.7	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

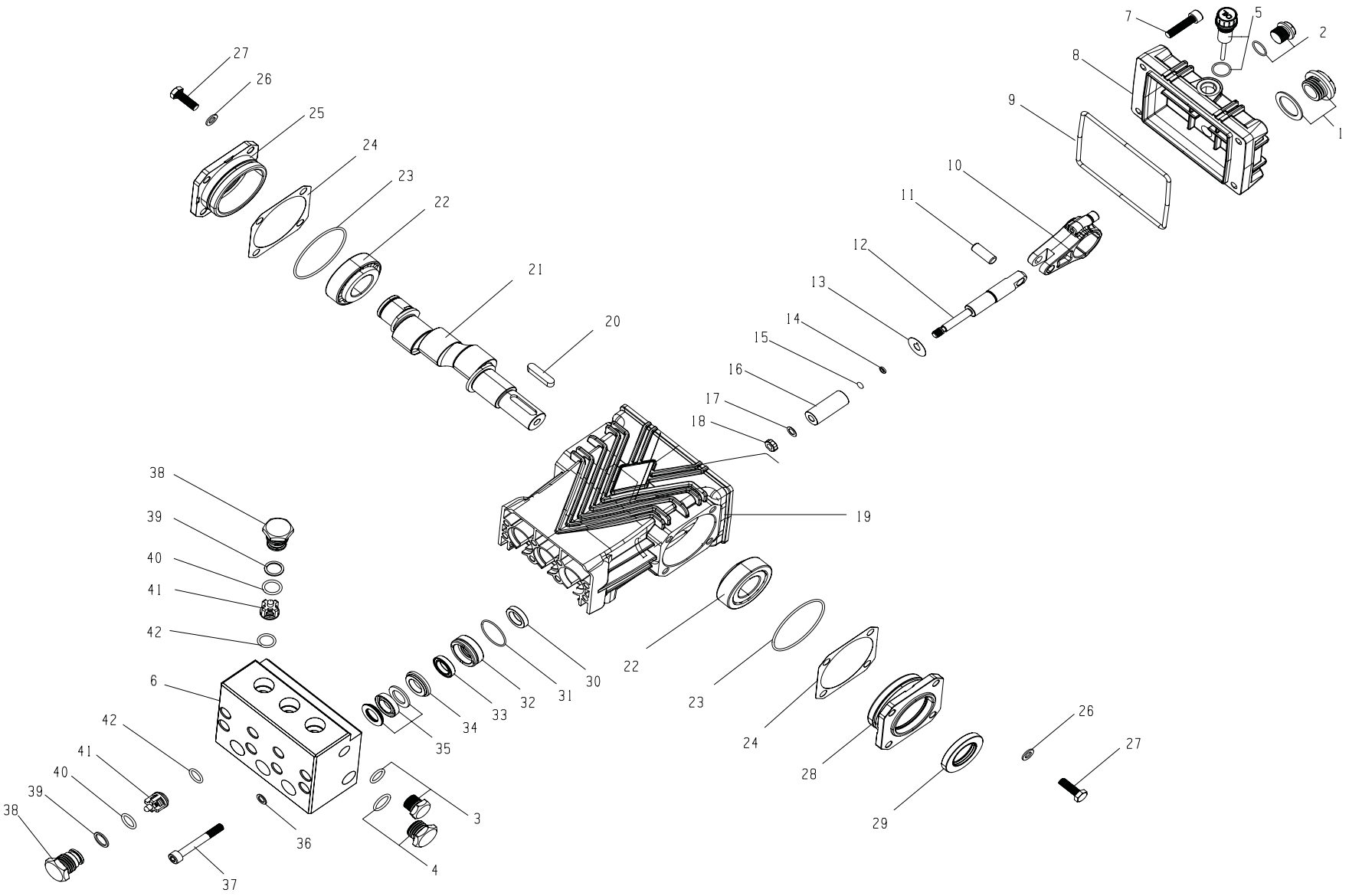
- Stainless-steel pump head provides structural strength and corrosion resistance.
- Forged crankshaft with surface nitriding improves strength and wear resistance.
- Low-friction alloy connecting rod supports high load capacity.
- Tapered roller bearings improve load capability and durability.
- Ceramic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

DIMENSIONS (mm)





EXPLODED VIEW



COMPONENTS

ITEM	PART NO.	Name	QTY
1	7.906-160	Oil Sight Glass	1
2	7.400-011.1	Plug	1
3	7.400-011	Plug	1
4	7.400-001.2	Plug	1
5	7.906-034	Dipstick	1
6	7.906-231	Stainless Steel Pump Head	1
7	7.301-004	Hexagon Socket Bolt	4
8	7.906-011.1	Rear Cover	1
9	7.906-019.4	Rear Cover O-Ring	1
10	7.906-001.5	Connecting Rod	3
11	7.906-033.1	Plunger Pin	3
12	7.906-002.3	Plunger Rod	3
13	7.906-008.8	Water Seal Washer	3
14	7.906-008.4	Retaining Ring	3

ITEM	PART NO.	Name	QTY
15	7.906-019	O-Ring	3
16	7.906-003.1	Ceramic Plunger	3
17	7.906-012.3	Copper Washer	3
18	7.906-033.1	Plunger Rod Nut	3
19	7.906-011.1	Crankcase	1
20	7.906-035	Parallel Key	1
21	7.906-025	Crankshaft	1
22	7.906-014	Tapered Roller Bearings	2
23	7.906-005.3	End Cover Seal	2
24	7.906-010.5	Adjusting Washer	2
25	7.906-011.1	Side Cover	1
26	7.906-022	Double-Sided Toothed Washer	8
27	7.301-009	Hexagon Bolt	8
28	7.906-011.1	Side Cover	1

ITEM	PART NO.	Name	QTY
29	7.906-006	Rotating Oil Seal	1
30	7.906-006.2	Crankcase Oil Seal	3
31	7.906-019.3	Guide Seat O-Ring	3
32	7.906-040.3	Guide Seat	3
33	7.906-352	Low Pressure Water Seal	3
34	7.906-041.2	Copper Pressure Ring	3
35	7.906-007.5	High Pressure Water Seal	3
36	7.906-022	Double-Sided Toothed Washer	8
37	7.301-051	Hexagon Socket Bolt	8
38	7.301-046	Check Valve Screw	6
39	7.906-008.3	Check Valve Screw Retaining Ring	6
40	7.906-019.2	Check Valve Screw O-Ring	6
41	7.906-013.2	Check Valve	6
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

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

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

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

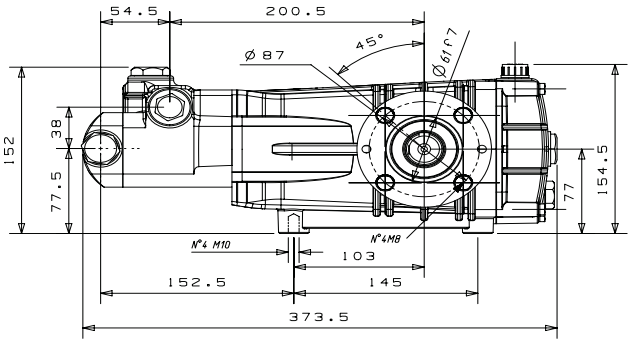
SPECIFICATIONS

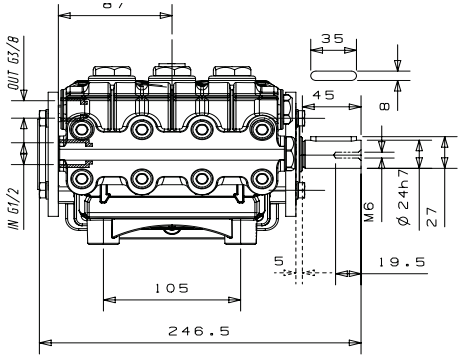
Pump Model	FCB 1550	FCB 1850	FCB 1860	FCB 2250	FCB 2260	FCB 2650
Flow Rate (L/min)	15	18	18	22	22	26
Pressure (bar)	500	500	600	500	600	500
Power (kw)	15	18	22	22	26.4	26.4
RPM	1450	1750	1450	1450	1750	1750
Shaft Diameter (mm)	24					
Plunger Stroke (mm)	21.2	21.2	17.5	21.2	17.5	21.2
Plunger Diameter (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

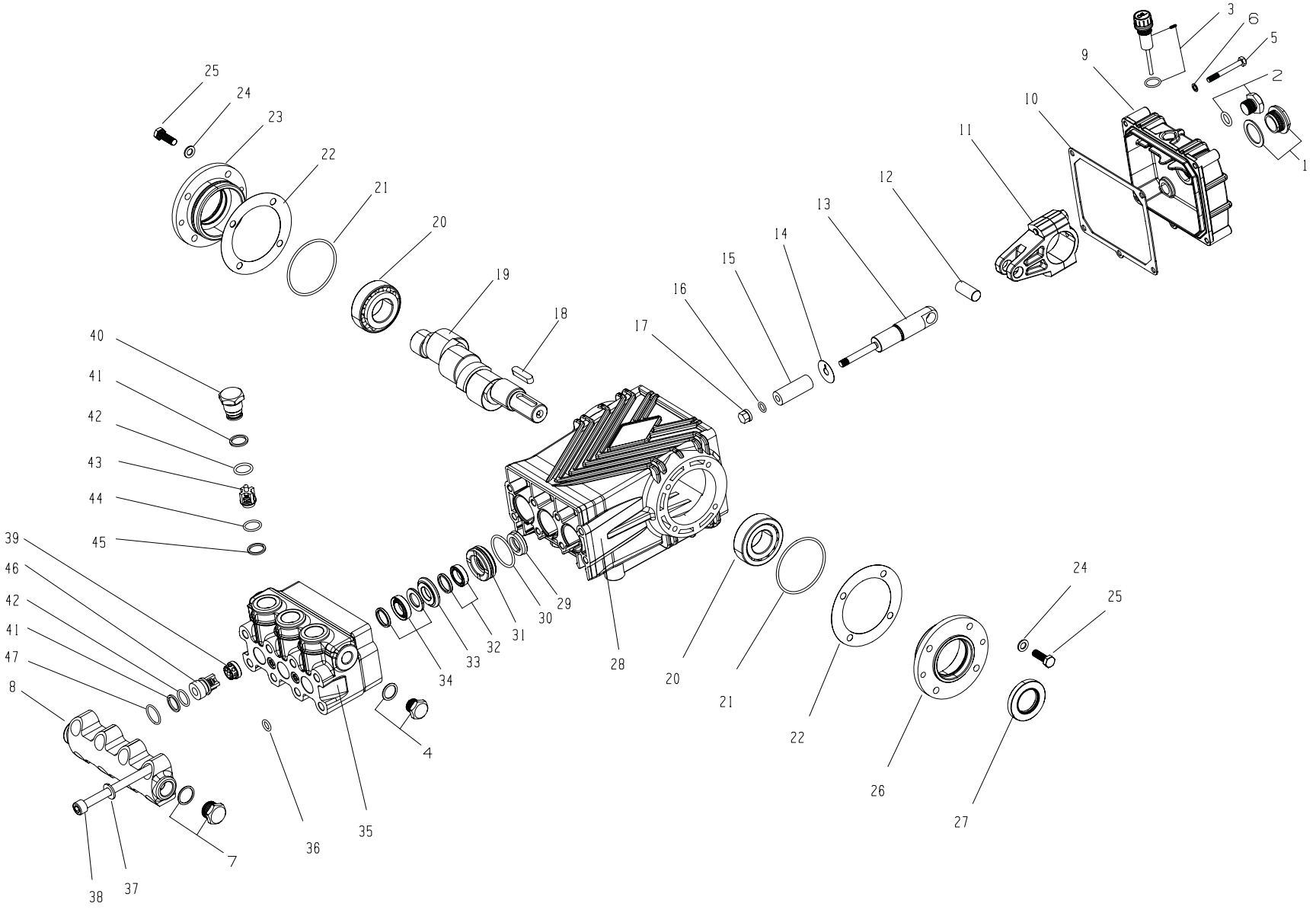
- High-pressure brass pump head provides structural strength and rust resistance.
- Forged crankshaft with surface nitriding improves strength and wear resistance.
- Low-friction alloy connecting rod supports high load capacity.
- Tapered roller bearings improve load capability and durability.
- Ceramic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

DIMENSIONS(mm)





EXPLODED VIEW



COMPONENTS

ITEM	PART NO.	Name	QTY
1	7.906-160	Oil Sight Glass	1
2	7.400-011.1	Plug	1
3	7.906-034	Dipstick	1
4	7.400-011	Plug	1
5	7.301-008	Hexagon Bolt	5
6	7.906-146	Double-Sided Toothed Washer	5
7	7.400-001.2	Plug	1
8	7.906-211	Copper End Cap	1
9	7.906-011	Rear Cover	1
10	7.906-010	Rubber Gasket	1
11	7.906-001.4	Connecting Rod	3
12	7.906-033	Plunger Pin	3
13	7.906-002	Plunger Rod	3
14	7.906-132	Water Seal Washer	3
15	7.906-164	Ceramic Plunger	3
16	7.906-005	Plunger Rod O-Ring	3

ITEM	PART NO.	Name	QTY
17	7.906-002	Plunger Rod Nut	3
18	7.906-035	Parallel Key	1
19	7.906-025.8	Crankshaft	1
20	7.906-014	Tapered Roller Bearings	2
21	7.906-005.3	End Cap O-Ring	2
22	7.906-137.138.139	Adjusting Washer	3
23	7.906-011	Side Cover	1
24	7.906-022	Double Sided Tooth Gasket	8
25	7.301-009	Hexagon Bolt	8
26	7.906-011	Side Cover	1
27	7.906-006	Oil Seal	1
28	7.906-011	Crankcase	1
29	7.906-006.1	Crankcase Oil Seal	3
30	7.906-005.5	Guide Seat O-Ring	3
31	7.906-040	Guide Seat	3
32	7.906-007.1	Low Pressure Water Seal	3

ITEM	PART NO.	Name	QTY
33	7.906-041	Copper Pressure Ring	3
34	7.906-007.10	High Pressure Water Seal	3
35	7.906-210	Brass Pump Head	1
36	7.906-005.1	Cooling Water O-Ring	2
37	7.906-145	Double-Sided Toothed Washer	8
38	7.301-052	Hexagon Socket Bolt	8
39	7.906-042	Check Valve Copper Support	3
40	7.301-053	Copper Valve Cover Nut	6
41	7.906-008.1	Open Retaining Ring	6
42	7.906-005.4	O-Ring	6
43	7.906-013.1	High Pressure Valve	3
44	7.906-005.4	High Pressure Valve O-Ring	3
45	7.906-008	High Pressure Valve Retaining Ring	3
46	7.906-013	Low Pressure Valve	3
47	7.906-005.2	Low Pressure Cover O-Ring	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

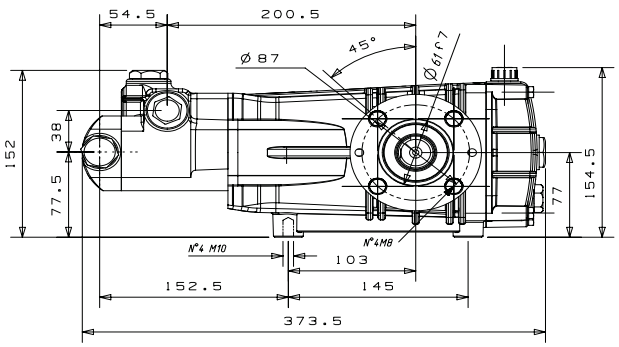
SPECIFICATIONS

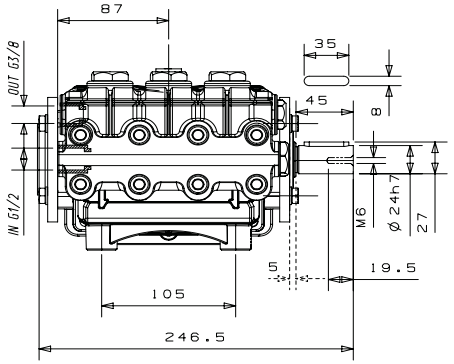
Pump Model	FCN 1550	FCN 1850	FCN 1860	FCN 2250	FCN 2260	FCN 2650
Flow Rate (L/min)	15	18	18	22	22	26
Pressure (bar)	500	500	600	500	600	500
Power (kw)	15	19.3	22	22	26.1	26.6
RPM	1450	1750	1450	1450	1750	1750
Shaft Diameter (mm)	24					
Plunger Stroke (mm)	21.2	21.2	17.5	21.2	17.5	21.2
Plunger Diameter (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

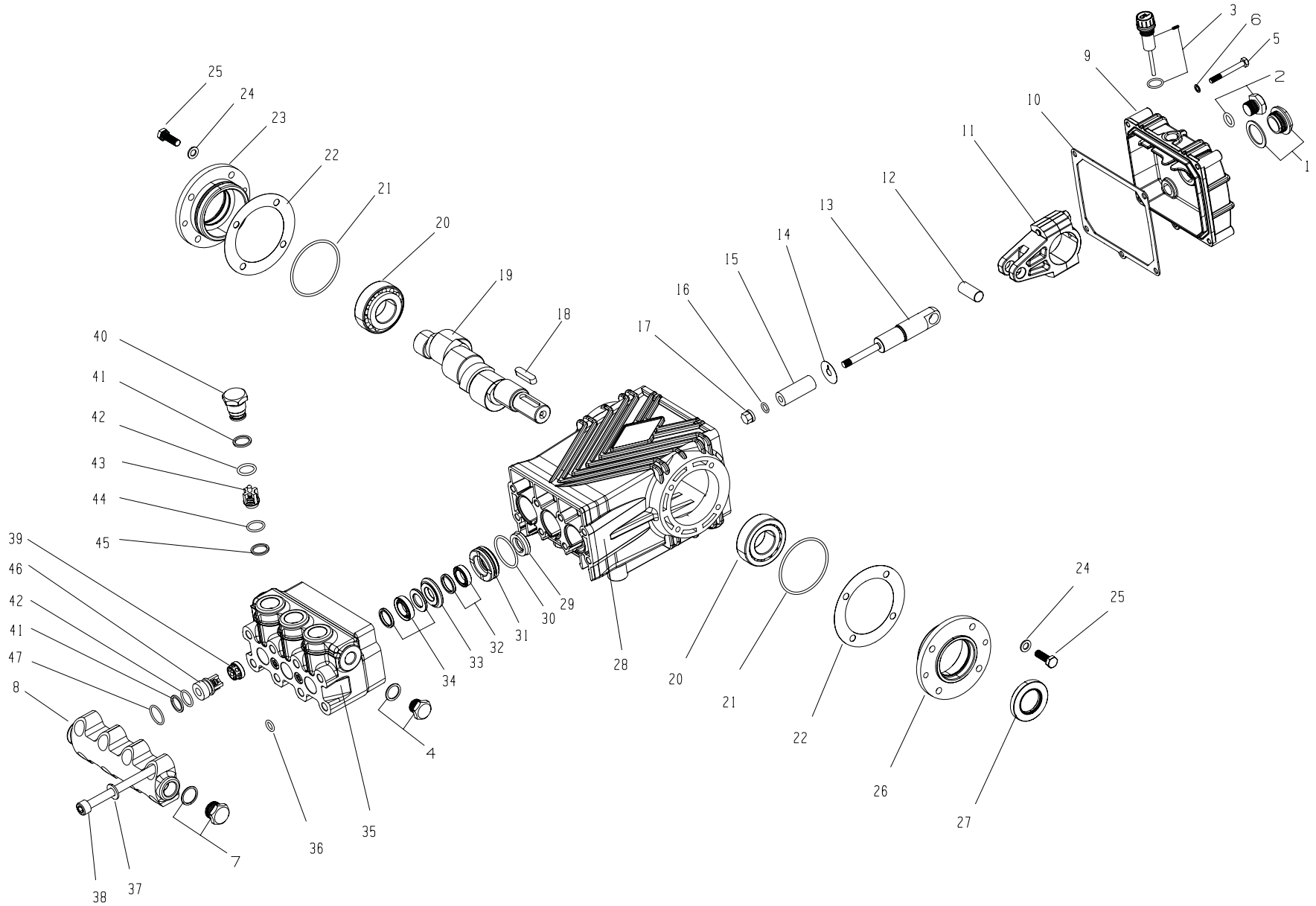
- High-pressure nickel-plated brass pump head provides structural strength and improved corrosion resistance.
- Forged crankshaft with surface nitriding improves strength and wear resistance.
- Low-friction alloy connecting rod supports high load capacity.
- Tapered roller bearings improve load capability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

DIMENSIONS(mm)





EXPLODED VIEW



COMPONENTS

ITEM	PART NO.	Name	QTY
1	7.906-160	Oil Sight Glass	1
2	7.400-011.1	Plug	1
3	7.906-034	Dipstick	1
4	7.400-011	Plug	1
5	7.301-008	Hexagon Bolt	5
6	7.906-146	Double-Sided Toothed Washer	5
7	7.400-001.2	Plug	1
8	7.906-211	Copper End Cap	1
9	7.906-011	Rear Cover	1
10	7.906-010	Rubber Gasket	1
11	7.906-001.4	Connecting Rod	3
12	7.906-033	Plunger Pin	3
13	7.906-002	Plunger Rod	3
14	7.906-132	Water Seal Washer	3
15	7.906-164	Ceramic Plunger	3
16	7.906-005	Plunger Rod O-Ring	3

ITEM	PART NO.	Name	QTY
17	7.906-002	Plunger Rod Nut	3
18	7.906-035	Parallel Key	1
19	7.906-025.8	Crankshaft	1
20	7.906-014	Tapered Roller Bearings	2
21	7.906-005.3	End Cap O-Ring	2
22	7.906-137.138.139	Adjusting Washer	3
23	7.906-011	Side Cover	1
24	7.906-022	Double-Sided Toothed Washer	8
25	7.301-009	Hexagon Bolt	8
26	7.906-011	Side Cover	1
27	7.906-006	Oil Seal	1
28	7.906-011	Crankcase	1
29	7.906-006.1	Crankcase Oil Seal	3
30	7.906-005.5	Guide Seat O-Ring	3
31	7.906-040	Guide Seat	3
32	7.906-007.1	Low Pressure Water Seal	3

ITEM	PART NO.	Name	QTY
33	7.906-041	Copper Pressure Ring	3
34	7.906-007.10	High Pressure Water Seal	3
35	7.906-210	Nickel Plated Brass Pump Head	1
36	7.906-005.1	Cooling Water O-Ring	2
37	7.906-145	Double-Sided Toothed Washer	8
38	7.301-052	Hexagon Socket Bolt	8
39	7.906-042	Check Valve Copper Support	3
40	7.301-053	Copper Valve Cover Nut	6
41	7.906-008.1	Open Retaining Ring	6
42	7.906-005.4	O-Ring	6
43	7.906-013.1	High Pressure Valve	3
44	7.906-005.4	High Pressure Valve O-Ring	3
45	7.906-008	High Pressure Valve Retaining Ring	3
46	7.906-013	Low Pressure Valve	3
47	7.906-005.2	Low Pressure Cover O-Ring	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

FUSSEN®



Soild Shaft Ø24mm

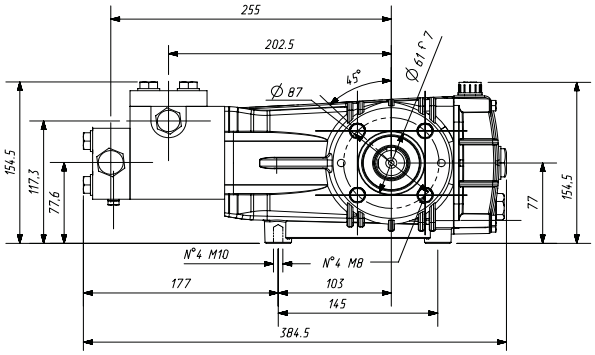
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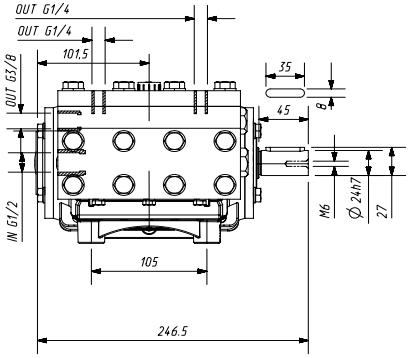
Pump Model	FCH 1550	FCH 1850	FCH 1860	FCH 2250	FCH 2260	FCH 2650
Flow Rate (L/min)	15	18	18	22	22.6	26
Pressure (bar)	500	500	600	500	600	500
Power (kw)	15	19.3	21.6	22	26.1	26.6
RPM	1450	1750	1450	1450	1750	1750
Shaft Diameter (mm)	24					
Plunger Stroke (mm)	21.2	21.2	17.5	21.2	17.5	21.2
Plunger Diameter (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

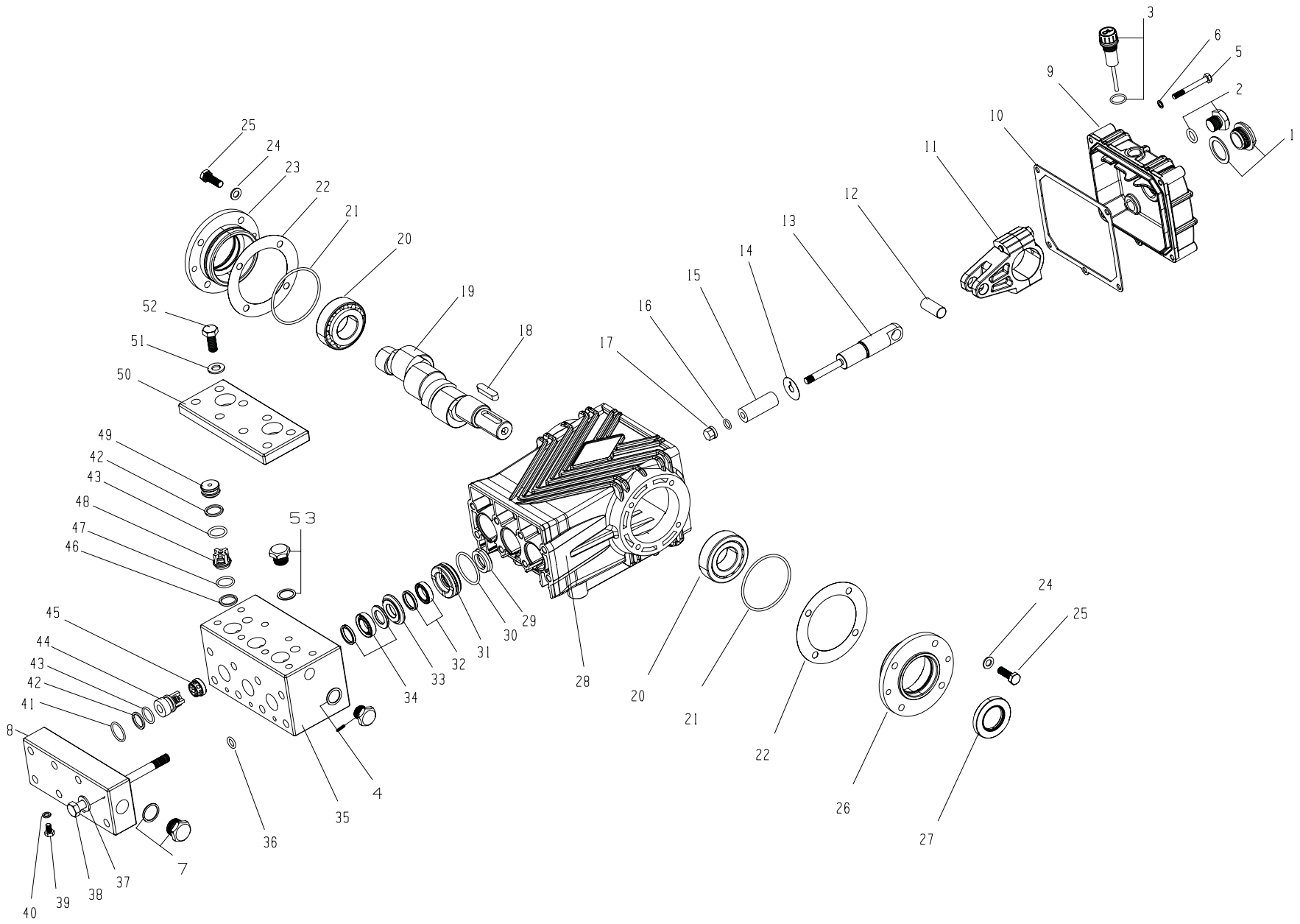
- High-pressure stainless-steel pump head provides structural strength and corrosion resistance.
- Forged crankshaft with surface nitriding improves strength and wear resistance.
- Low-friction alloy connecting rod supports high load capacity.
- Tapered roller bearings improve load capability and durability.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

DIMENSIONS(mm)





EXPLODED VIEW



COMPONENTS

ITEM	PART NO.	Name	QTY
1	7.906-160	Oil Sight Glass	1
2	7.400-011.1	Plug	1
3	7.906-034	Dipstick	1
4	7.400-011	Plug	1
5	7.301-008	Hexagon Bolt	5
6	7.906-146	Double-Sided Toothed Washer	5
7	7.400-001.2	Plug	1
8	7.906-032	Low Pressure Cover	1
9	7.906-011	Rear Cover	1
10	7.906-010	Rubber Gasket	1
11	7.906-001.4	Connecting Rod	3
12	7.906-033	Plunger Pin	3
13	7.906-002	Plunger Rod	3
14	7.906-132	Water Seal Washer	3
15	7.906-164	Ceramic Plunger	3
16	7.906-005	Plunger Rod O-Ring	3
17	7.906-002	Plunger Rod Nut	3
18	7.906-035	Parallel Key	1

ITEM	PART NO.	Name	QTY
19	7.906-025.8	Crankshaft	1
20	7.906-014	Tapered Roller Bearings	2
21	7.906-005.3	End Cap O-Ring	2
22	7.906-137.138.139	Adjusting Washer	3
23	7.906-011	Side Cover	1
24	7.906-022	Double-Sided Toothed Washer	8
25	7.301-009	Hexagon Bolt	8
26	7.906-011	Side Cover	1
27	7.906-006	Oil Seal	1
28	7.906-011	Crankcase	1
29	7.906-006.1	Crankcase Oil Seal	3
30	7.906-005.5	Guide Seat O-Ring	3
31	7.906-040	Guide Seat	3
32	7.906-352	Low Pressure Water Seal	3
33	7.906-041	Copper Pressure Ring	3
34	7.906-362	High Pressure Water Seal	3
35	7.906-032	Stainless Steel Pump Head	1
36	7.906-005.1	Cooling Water O-Ring	3

ITEM	PART NO.	Name	QTY
37	7.906-145	Double-Sided Toothed Washer	8
38	7.301-010	M10 Hexagon Bolt	8
39	7.301-011	M6 Hexagon Bolt	3
40	7.906-046	Bonded Seal	3
41	7.906-005.2	Low Pressure Cover O-Ring	3
42	7.906-008.1	Open Retaining Ring	6
43	7.906-005.4	O-Ring	6
44	7.906-013	Low Pressure Valve	3
45	7.906-042	Check Valve Copper Support	3
46	7.906-008	High Pressure Valve Retaining Ring	3
47	7.906-005.4	High Pressure Valve O-Ring	3
48	7.906-013.1	High Pressure Valve	3
49	7.906-047	High Pressure Valve Copper Seat	3
50	7.906-032	High Pressure Valve Cover Plate	1
51	7.906-145	Double-Sided Toothed Washer	8
52	7.301-015	M10 Hexagon Bolt	8
53	7.400-001	Plug	1

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

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

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

FCC Series
BRASS PUMP

FUSSEN®



Soild Shaft Ø24mm

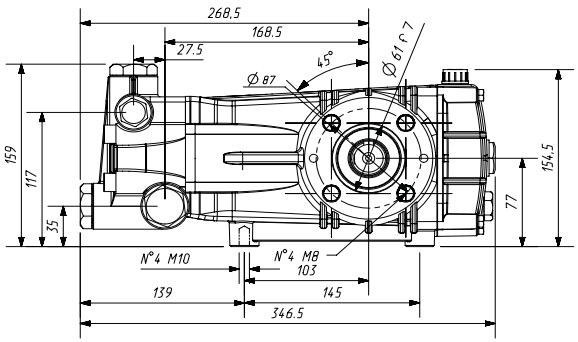
SPECIFICATIONS

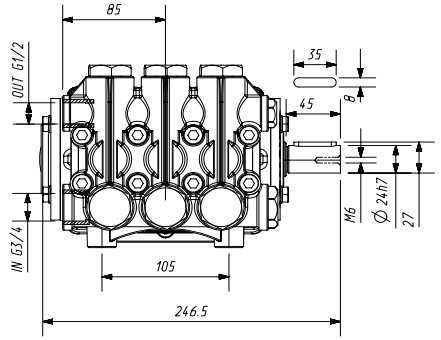
Pump Model	FCC 2135	FCC 3020	FCC 3030	FCC 4025	FCC 5020	FCC 3620	FCC 4819	FCC 6018
Flow Rate (L/min)	21	30	30	40	50	36	48	60
Pressure (bar)	350	200	300	250	200	200	190	180
Power (kw)	15	12	18	20	20	14.4	24	24
RPM	1450	1450	1450	1450	1450	1750	1750	1750
Shaft Diameter (mm)	24							
Plunger Stroke (mm)	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

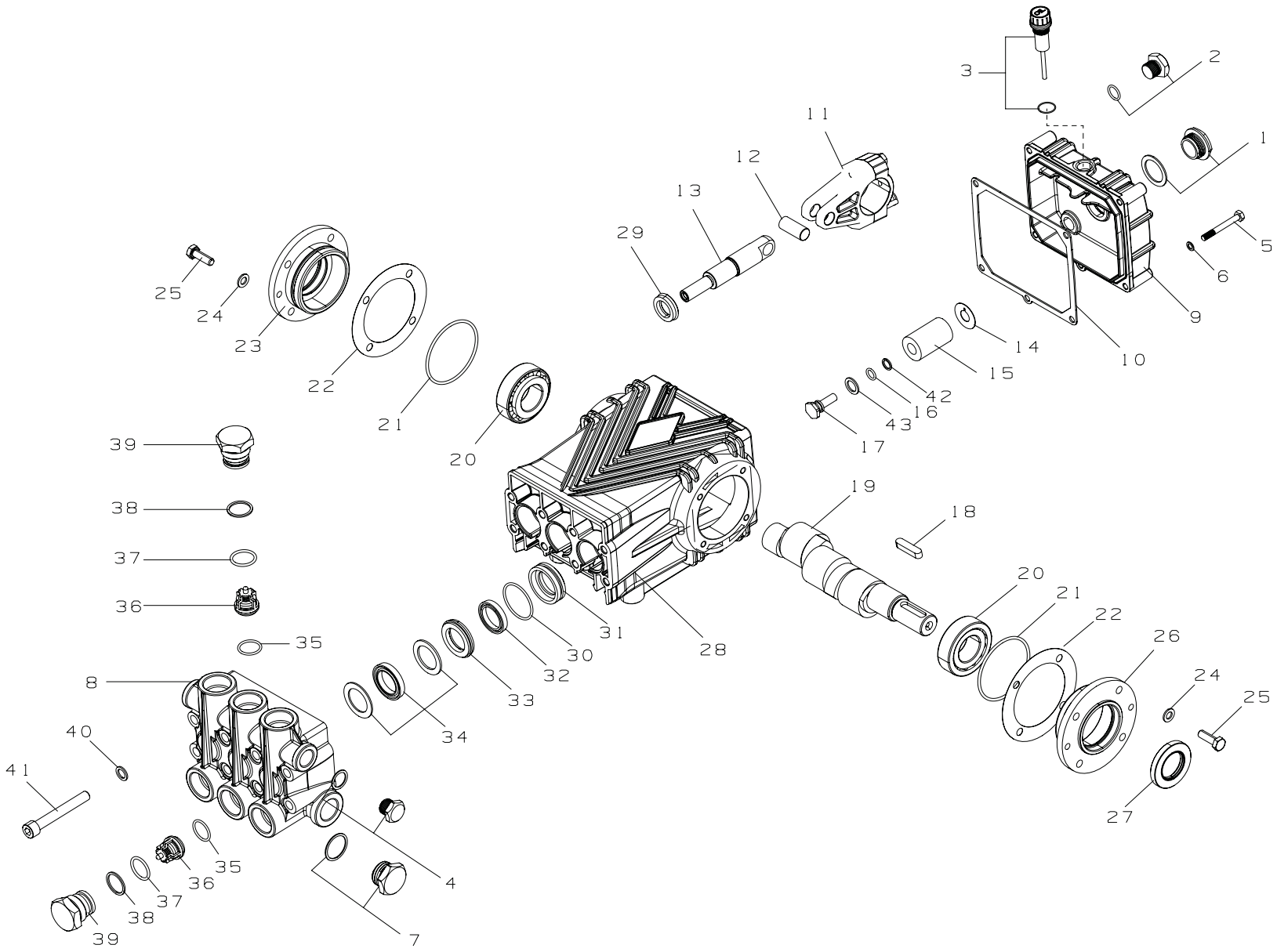
- High-flow brass pump head provides structural strength and rust resistance for continuous operation.
- Forged crankshaft with surface nitriding improves strength and wear resistance.
- Low-friction alloy connecting rod supports high load capacity.
- Tapered roller bearings improve load capability and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

DIMENSIONS(mm)





EXPLODED VIEW



COMPONENTS

ITEM	PART NO.	Name	QTY
1	7.906-160	Oil Sight Glass	1
2	7.400-011.1	Plug	1
3	7.906-034	Dipstick	1
4	7.400-001.2	Plug	1
5	7.301-008	Hexagon Bolt	5
6	7.906-146	Double-Sided Toothed Washer	5
7	7.400-001.1	Plug	1
8	7.906-212	Brass Pump Head	1
9	7.906-011	Rear Cover	1
10	7.906-010	Rubber Gasket	1
11	7.906-001.4	Connecting Rod	3
12	7.906-033	Plunger Pin	3
13	7.906-002.4	Plunger Rod	3
14	7.906-133	Water Seal Washer	3
15	7.906-003.8	Ceramic Plunger	3

ITEM	PART NO.	Name	QTY
16	7.906-005	Plunger Rod O-Ring	3
17	7.906-002.4	Plunger Rod Nut	3
18	7.906-035.1	Parallel Key	1
19	7.906-025.3	Crankshaft	1
20	7.906-014	Tapered Roller Bearings	2
21	7.906-005.3	End Cap O-Ring	2
22	7.906-137.138.139	Adjusting Washer	3
23	7.906-011	Side Cover	1
24	7.906-022	Double-Sided Toothed Washer	8
25	7.301-009	Hexagon Bolt	8
26	7.906-011	Side Cover	1
27	7.906-006	Oil Seal	1
28	7.906-011	Crankcase	1
29	7.906-006.1	Crankcase Oil Seal	3

ITEM	PART NO.	Name	QTY
30	7.906-055	Guide Seat O-Ring	3
31	7.906-040.5	Guide Seat	3
32	7.906-358	Low Pressure Water Seal	3
33	7.906-110	Copper Pressure Ring	3
34	7.906-363	High Pressure Water Seal	3
35	7.906-055.1	Valve O-Ring	6
36	7.906-109	Valve	6
37	7.906-055.2	Valve Cover Screw O-Ring	6
38	7.906-056	Valve Cover Screw Retaining Ring	6
39	7.301-025	Valve Cover Screw	6
40	7.906-145	Double-Sided Toothed Washer	8
41	7.301-039	Pump Head Screw	8
42	7.906-056.1	Retaining Ring	3
43	7.906-012.1	Copper Washer	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

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

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	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

FUSSEN®



Soild Shaft Ø24mm

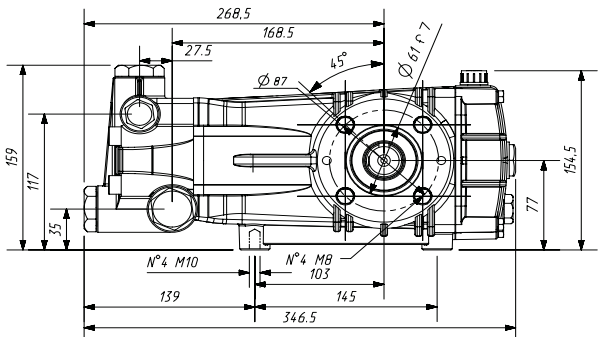
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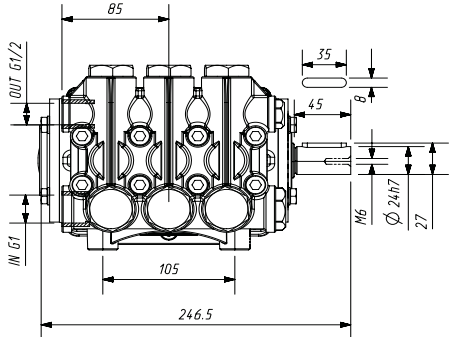
Pump Model	FCK 2135	FCK 3020	FCK 3030	FCK 4025	FCK 5020	FCK 3620	FCK4819	FCK 6018
Flow Rate (L/min)	21	30	30	40	50	36	48	60
Pressure (bar)	350	200	300	250	200	200	190	180
Power (kw)	15	12	18	20	20	14.4	24	24
RPM	1450	1450	1450	1450	1450	1750	1750	1750
Shaft Diameter (mm)	24							
Plunger Stroke (mm)	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

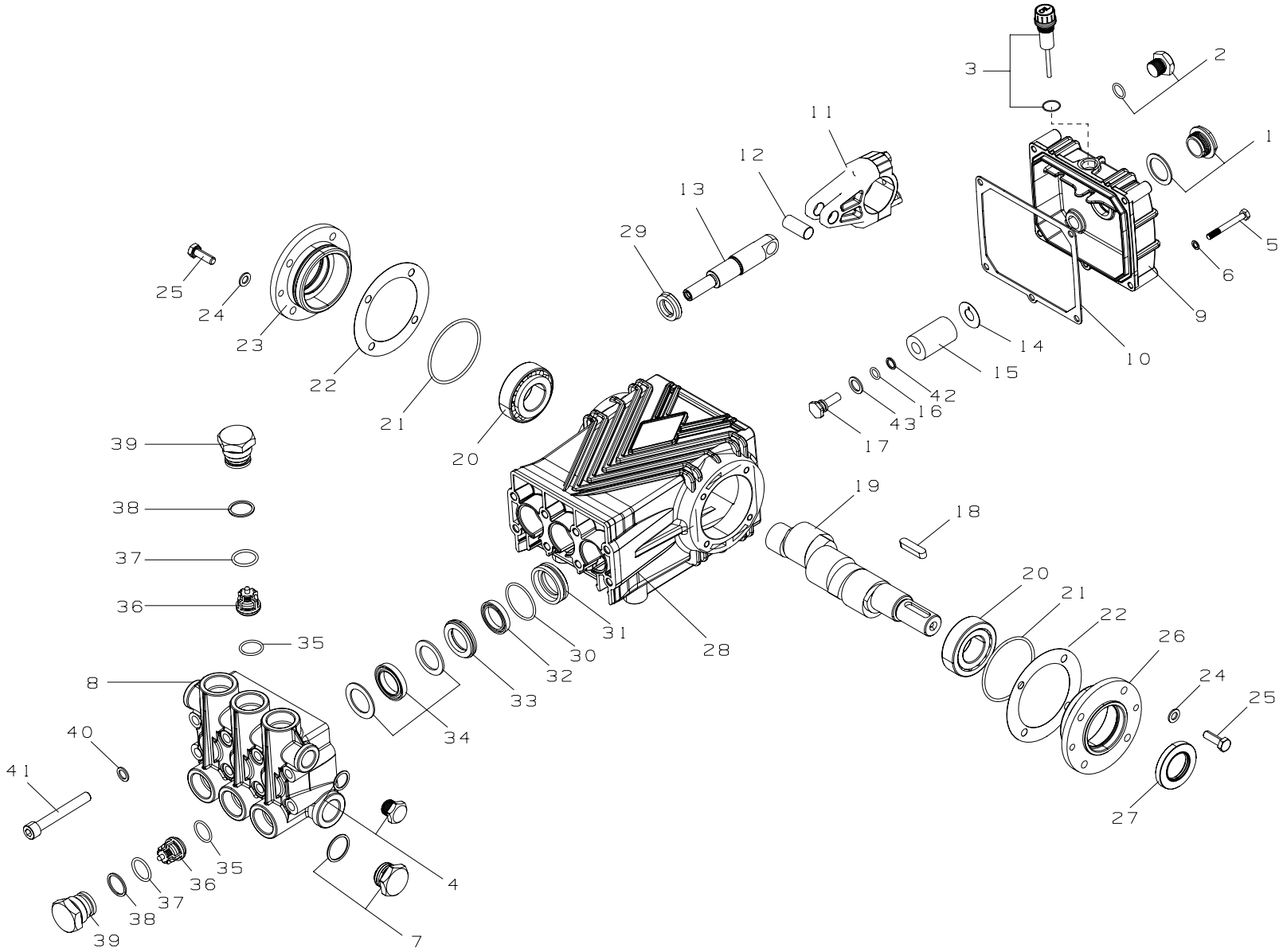
- High-flow nickel-plated brass pump head provides structural strength and improved corrosion resistance for continuous operation.
- Forged crankshaft with surface nitriding improves strength and wear resistance.
- Low-friction alloy connecting rod supports high load capacity.
- Tapered roller bearings 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
1	7.906-160	Oil Sight Glass	1
2	7.400-011.1	Plug	1
3	7.906-034	Dipstick	1
4	7.400-001.2	Plug	1
5	7.301-008	Hexagon Bolt	5
6	7.906-146	Double-Sided Toothed Washer	5
7	7.400-001.1	Plug	1
8	7.906-077	Nickel-Plated Brass Pump Head	1
9	7.906-011	Rear Cover	1
10	7.906-010	Rubber Gasket	1
11	7.906-001.4	Connecting Rod	3
12	7.906-033	Plunger Pin	3
13	7.906-002.4	Plunger Rod	3
14	7.906-133	Water Seal Washer	3
15	7.906-003.8	Ceramic Plunger	3

ITEM	PART NO.	Name	QTY
16	7.906-005	Plunger Rod O-Ring	3
17	7.906-002.4	Plunger Rod Nut	3
18	7.906-035.1	Parallel Key	1
19	7.906-025.3	Crankshaft	1
20	7.906-014	Tapered Roller Bearings	2
21	7.906-005.3	End Cap O-Ring	2
22	7.906-137.138.139	Adjusting Washer	3
23	7.906-011	Side Cover	1
24	7.906-022	Double-Sided Toothed Washer	8
25	7.301-009	Hexagon Bolt	8
26	7.906-011	Side Cover	1
27	7.906-006	Oil Seal	1
28	7.906-011	Crankcase	1
29	7.906-006.1	Crankcase Oil Seal	3

ITEM	PART NO.	Name	QTY
30	7.906-055	Guide Seat O-Ring	3
31	7.906-040.5	Guide Seat	3
32	7.906-358	Low Pressure Water Seal	3
33	7.906-110	Copper Pressure Ring	3
34	7.906-363	High Pressure Water Seal	3
35	7.906-055.1	Valve O-Ring	6
36	7.906-109	Valve	6
37	7.906-055.2	Valve Cover Screw O-Ring	6
38	7.906-056	Valve Cover Screw Retaining Ring	6
39	7.301-025	Valve Cover Screw	6
40	7.906-145	Double-Sided Toothed Washer	8
41	7.301-039	Pump Head Screw	8
42	7.906-056.1	Retaining Ring	3
43	7.906-012.1	Copper Gasket	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

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

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	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

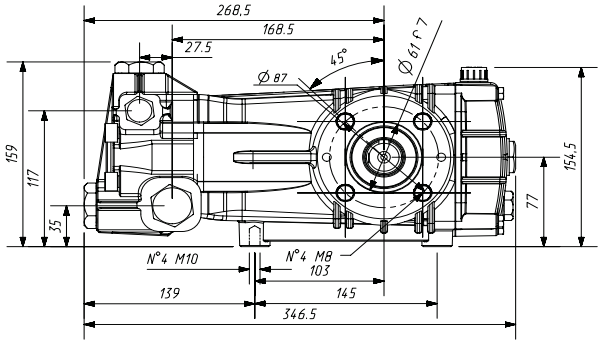
SPECIFICATIONS

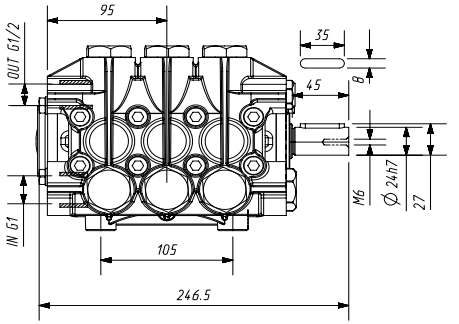
Pump Model	FCR 6017	FCR 7016	FCR 7217	FCR 8416
Flow Rate (L/min)	60	70	72	84
Pressure (bar)	170	160	170	160
Power (kw)	20.4	22.4	24.5	26.8
RPM	1450	1450	1750	1750
Shaft Diameter (mm)	24			
Plunger Stroke (mm)	20	23.5	19	23.5
Plunger Diameter (mm)	30			
Oil Capacity (ml)	1100			
Inlet Thread	G 1			
Outlet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

FEATURES

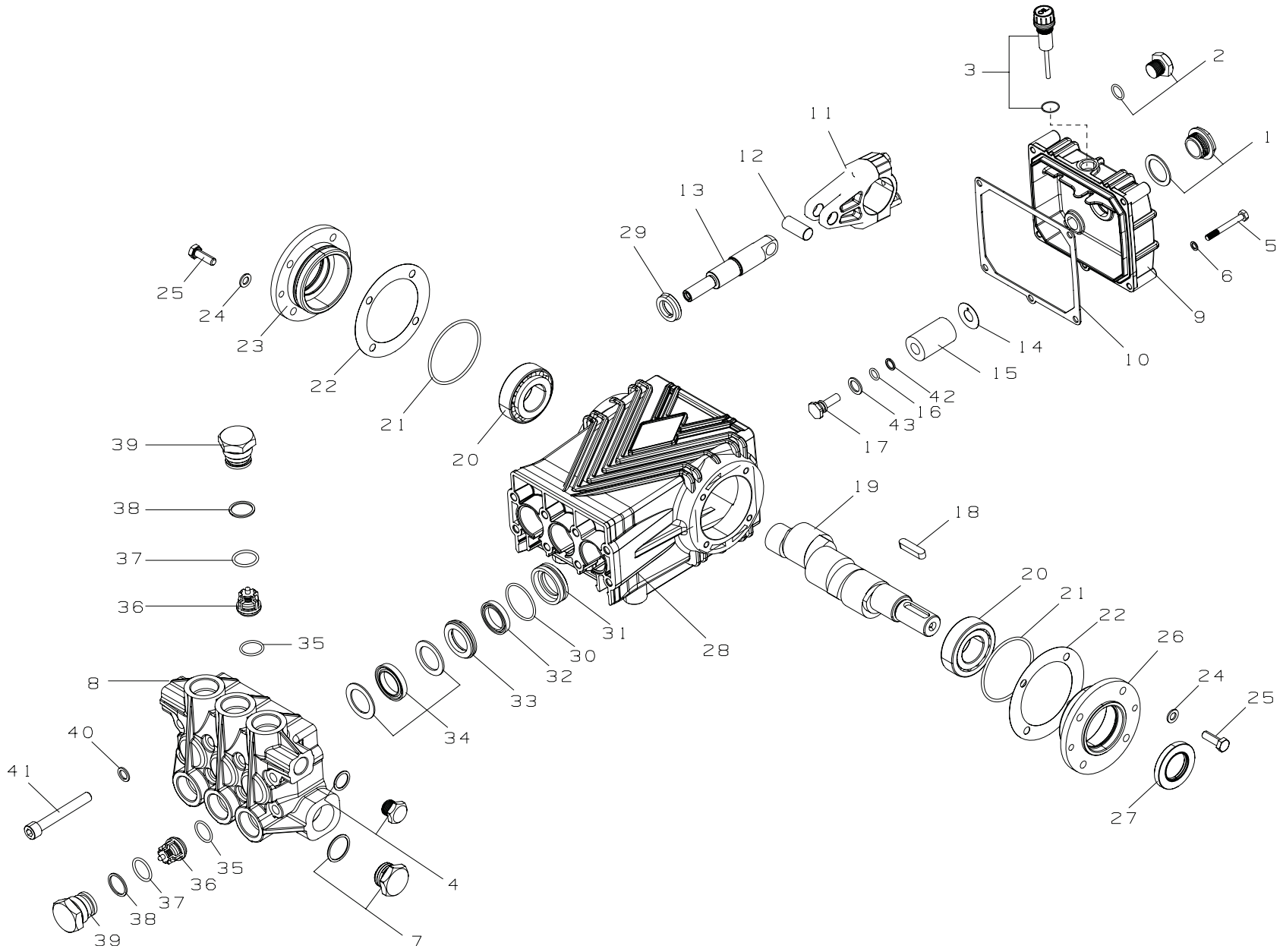
- High-flow brass pump head provides structural strength and rust resistance for continuous operation.
- Forged crankshaft with surface nitriding improves strength and wear resistance.
- Low-friction alloy connecting rod supports high load capacity.
- Tapered roller bearings improve load capability and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

DIMENSIONS(mm)





EXPLODED VIEW



COMPONENTS

ITEM	PART NO.	Name	QTY
1	7.906-160	Oil Sight Glass	1
2	7.400-011.1	Plug	1
3	7.906-034	Dipstick	1
4	7.400-001.2	Plug	1
5	7.301-008	Hexagon Bolt	5
6	7.906-146	Double-Sided Toothed Washer	5
7	7.400-001.1	Plug	1
8	7.906-077	Brass Pump Head	1
9	7.906-011	Rear Cover	1
10	7.906-010	Rubber Gasket	1
11	7.906-001.4	Connecting Rod	3
12	7.906-033	Plunger Pin	3
13	7.906-002.4	Plunger Rod	3
14	7.906-133	Water Seal Washer	3
15	7.906-003.8	Ceramic Plunger	3

ITEM	PART NO.	Name	QTY
16	7.906-005	Plunger Rod O-Ring	3
17	7.906-002.4	Plunger Rod Nut	3
18	7.906-035.1	Water Seal Washer	1
19	7.906-025.3	Crankshaft	1
20	7.906-014	Tapered Roller Bearings	2
21	7.906-005.3	End Cap O-Ring	2
22	7.906-137.138.139	Adjusting Washer	3
23	7.906-011	Side Cover	1
24	7.906-022	Double-Sided Toothed Washer	8
25	7.301-009	Hexagon Bolt	8
26	7.906-011	Side Cover	1
27	7.906-006	Oil Seal	1
28	7.906-011	Crankcase	1
29	7.906-006.1	Crankcase Oil Seal	3

ITEM	PART NO.	Name	QTY
30	7.906-055	Guide Seat O-Ring	3
31	7.906-040.5	Guide Seat	3
32	7.906-358	Low Pressure Water Seal	3
33	7.906-110	Copper Pressure Ring	3
34	7.906-363	High Pressure Water Seal	3
35	7.906-055.1	Valve O-Ring	6
36	7.906-109	Valve	6
37	7.906-055.2	Valve Cover Screw O-Ring	6
38	7.906-056	Valve Cover Screw Retaining Ring	6
39	7.301-025	Valve Cover Screw	6
40	7.906-145	Double-Sided Toothed Washer	8
41	7.301-039	Pump Head Screw	8
42	7.906-056.1	Retaining Ring	3
43	7.906-012.1	Copper Washer	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

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

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	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

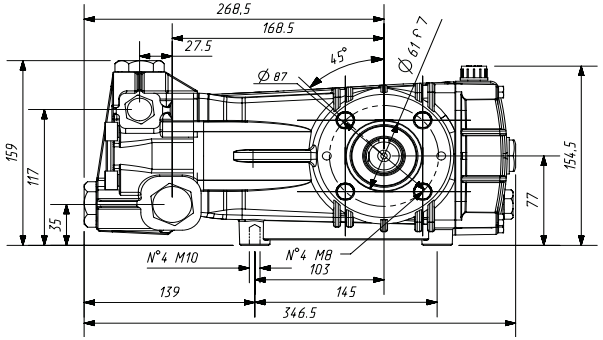
SPECIFICATIONS

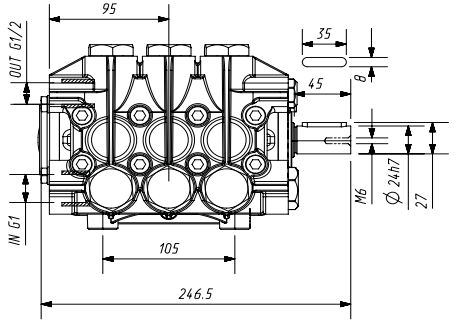
Pump Model	FCM 6017	FCM 7016	FCM 7217	FCM 8416
Flow Rate (L/min)	60	70	72	84
Pressure (bar)	170	160	170	160
Power (kw)	20.4	22.4	24.5	26.8
RPM	1450	1450	1750	1750
Shaft Diameter (mm)	24			
Plunger Stroke (mm)	20	23.5	19	23.5
Plunger Diameter (mm)	30			
Oil Capacity (ml)	1100			
Inlet Thread	G 1			
Outlet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

FEATURES

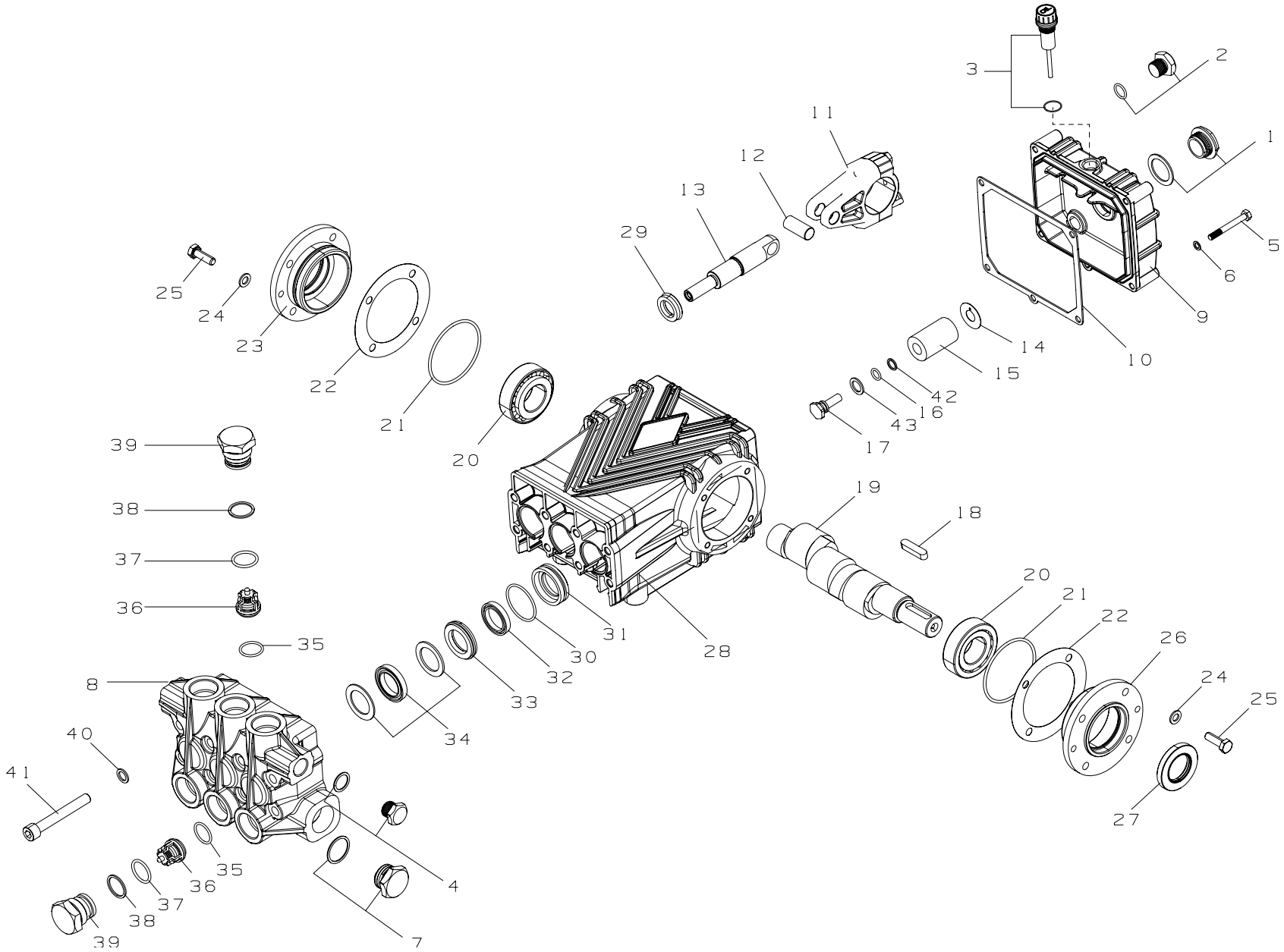
- High-flow nickel-plated brass pump head provides structural strength and improved corrosion resistance for continuous operation.
- Forged crankshaft with surface nitriding improves strength and wear resistance.
- Low-friction alloy connecting rod supports high load capacity.
- Tapered roller bearings 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
1	7.906-160	Oil Sight Glass	1
2	7.400-011.1	Plug	1
3	7.906-034	Dipstick	1
4	7.400-001.2	Plug	1
5	7.301-008	Hexagon Bolt	5
6	7.906-146	Double-Sided Toothed Washer	5
7	7.906-168	Plug	1
8	7.906-214	Nickel-Plated Brass Pump Head	1
9	7.906-011	Rear Cover	1
10	7.906-010	Rubber Gasket	1
11	7.906-001.4	Connecting Rod	3
12	7.906-033	Plunger Pin	3
13	7.906-002.4	Plunger Rod	3
14	7.906-133	Water Seal Washer	3
15	7.906-163	Ceramic Plunger	3

ITEM	PART NO.	Name	QTY
16	7.906-005	Plunger Rod O-Ring	3
17	7.906-002.4	Plunger Rod Nut	3
18	7.906-035.1	Parallel Key	1
19	7.906-182	Crankshaft	1
20	7.906-014	Tapered Roller Bearings	2
21	7.906-005.3	End Cap O-Ring	2
22	7.906-137.138.139	Adjusting Washer	3
23	7.906-011	Side Cover	1
24	7.906-022	Double-Sided Toothed Washer	8
25	7.301-009	Hexagon Bolt	8
26	7.906-011	Side Cover	1
27	7.906-006	Oil Seal	1
28	7.906-011	Crankcase	1
29	7.906-006.1	Crankcase Oil Seal	3

ITEM	PART NO.	Name	QTY
30	7.906-145	Guide Seat O-Ring	3
31	7.906-208	Guide Seat	3
32	7.906-350	Low Pressure Water Seal	3
33	7.906-209	Copper Pressure Ring	3
34	7.906-351	High Pressure Water Seal	3
35	7.906-055.1	Valve O-Ring	6
36	7.906-109	Valve	6
37	7.906-055.2	Valve Cover Screw O-Ring	6
38	7.906-056	Valve Cover Screw Retaining Ring	6
39	7.301-025	Valve Cover Screw	6
40	7.906-145	Double-Sided Toothed Gasket	8
41	7.301-039	Pump Head Screw	8
42	7.906-056.1	Retaining Ring	3
43	7.906-012.1	Copper Washer	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

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

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	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

FUSSEN®



Soild Shaft Ø24mm

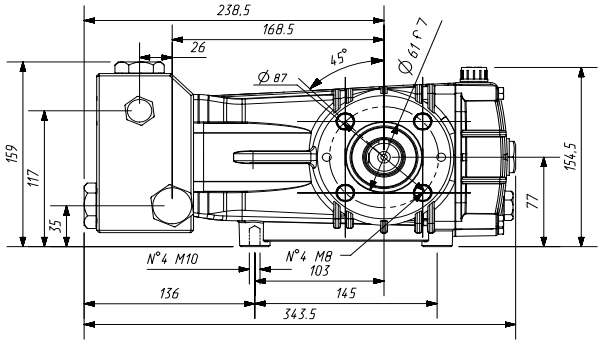
SPECIFICATIONS

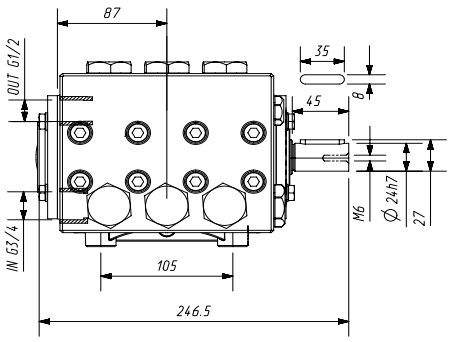
Pump Model	FCL 3030	FCL4025	FCL 5020	FCL 6018	FCL 3630	FCL4825	FCL 6020	FCL 7218
Flow Rate (L/min)	30	40	50	60	36.2	48	60.3	72.4
Pressure (bar)	300	250	200	180	300	250	200	180
Power (kw)	18	20	20	21.6	21.7	24	24	26.1
RPM	1450	1450	1450	1450	1750	1750	1750	1750
Shaft Diameter (mm)	24							
Plunger Stroke (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

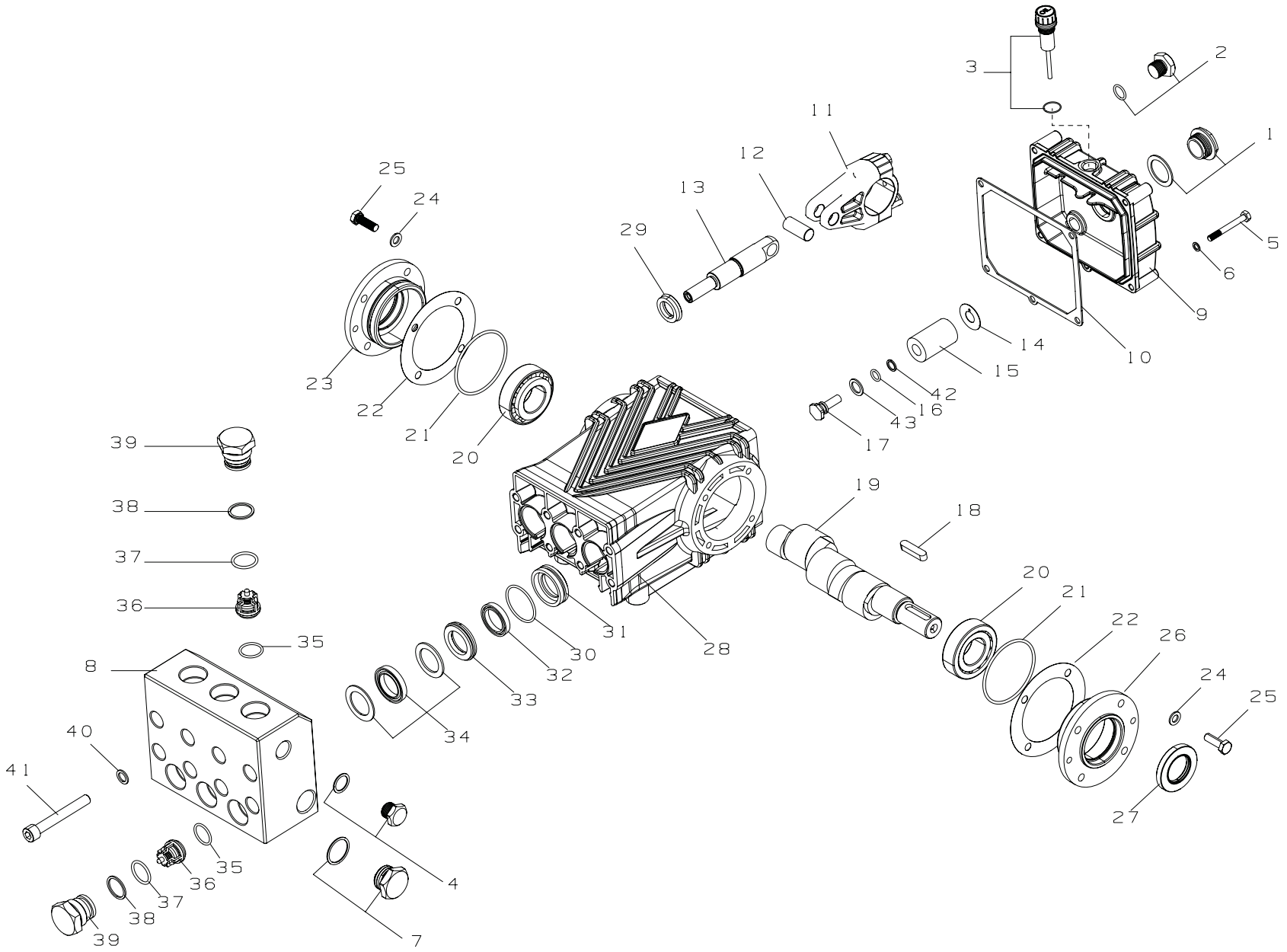
- High-flow stainless-steel pump head provides structural strength and corrosion resistance for continuous operation.
- Forged crankshaft with surface nitriding improves strength and wear resistance.
- Low-friction alloy connecting rod supports high load capacity.
- Tapered roller bearings improve load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

DIMENSIONS(mm)





EXPLODED VIEW



COMPONENTS

ITEM	PART NO.	Name	QTY
1	7.906-160	Oil Sight Glass	1
2	7.400-011.1	Plug	1
3	7.906-034	Dipstick	1
4	7.400-011	Plug	1
5	7.301-008	Hexagon Bolt	5
6	7.906-146	Double-Sided Toothed Washer	5
7	7.400-001.1	Plug	1
8	7.906-108	Stainless Steel Pump Head	1
9	7.906-011	Rear Cover	1
10	7.906-010	Rubber Gasket	1
11	7.906-001.4	Connecting Rod	3
12	7.906-033	Plunger Pin	3
13	7.906-002.4	Plunger Rod	3
14	7.906-133	Water Seal Washer	3
15	7.906-003.8	Ceramic Plunger	3

ITEM	PART NO.	Name	QTY
16	7.906-005	Plunger Rod O-Ring	3
17	7.906-002.4	Plunger Rod Nut	3
18	7.906-035	Parallel Key	1
19	7.906-025.8	Crankshaft	1
20	7.906-014	Tapered Roller Bearings	2
21	7.906-005.3	End Cap O-Ring	2
22	7.906-137.138.139	Adjusting Washer	3
23	7.906-011	Side Cover	1
24	7.906-022	Double-Sided Toothed Washer	8
25	7.301-009	Hexagon Bolt	8
26	7.906-011	Side Cover	1
27	7.906-006	Oil Seal	1
28	7.906-011	Crankcase	1
29	7.906-006.1	Crankcase Oil Seal	3

ITEM	PART NO.	Name	QTY
30	7.906-055	Guide Seat O-Ring	3
31	7.906-040.5	Guide Seat	3
32	7.906-358	Low Pressure Water Seal	3
33	7.906-110	Copper Pressure Ring	3
34	7.906-363	High Pressure Water Seal	3
35	7.906-055.1	Valve O-Ring	6
36	7.906-109	Valve	6
37	7.906-055.2	Valve Cover Screw O-Ring	6
38	7.906-056	Valve Cover Screw Retaining Ring	6
39	7.301-025	Valve Cover Screw	6
40	7.906-145	Double-Sided Toothed Washer	8
41	7.301-039	Pump Head Screw	8
42	7.906-056.1	Retaining Ring	3
43	7.906-012.1	Copper Washer	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

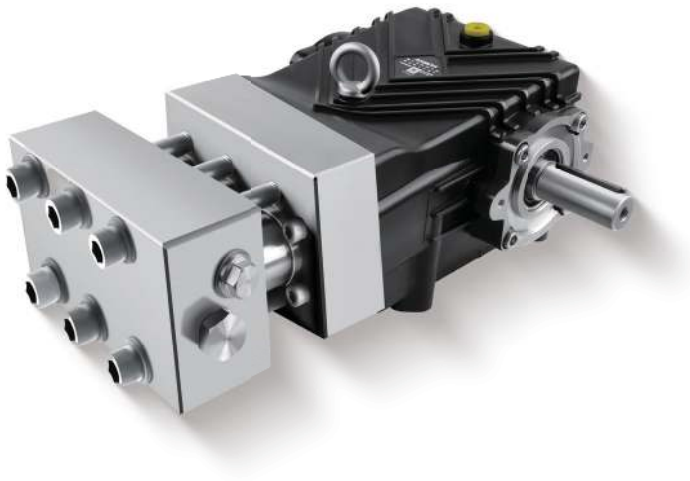
Valve Kit		
Index	35	36
Part Number	7.906-055.1	7.906-109
Name	Valve O-Ring	Valve
Quantity	6	6

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	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

FDH Series
STAINLESS STEEL PUMP

FUSSEN®



Soild Shaft Ø30mm

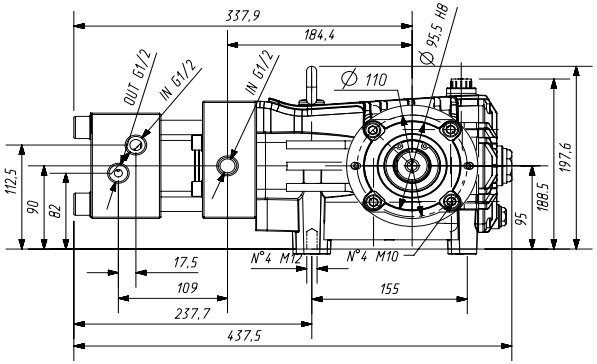
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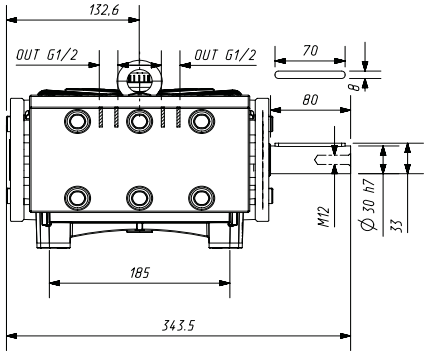
Pump Model	FDH 15100	FDH 1880	FDH 18100	FDH 2080
Flow Rate (L/min)	15	18	18	20
Pressure (bar)	1000	800	1000	800
Power (kw)	28.8	27.7	30.8	30.8
RPM	1450	1450	1750	1750
Shaft Diameter (mm)				
Plunger Stroke (mm)	20.5	22	17	20.5
Plunger Diameter (mm)	16	16	16	16
Oil Capacity (ml)	1700			
Inlet Thread	G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

FEATURES

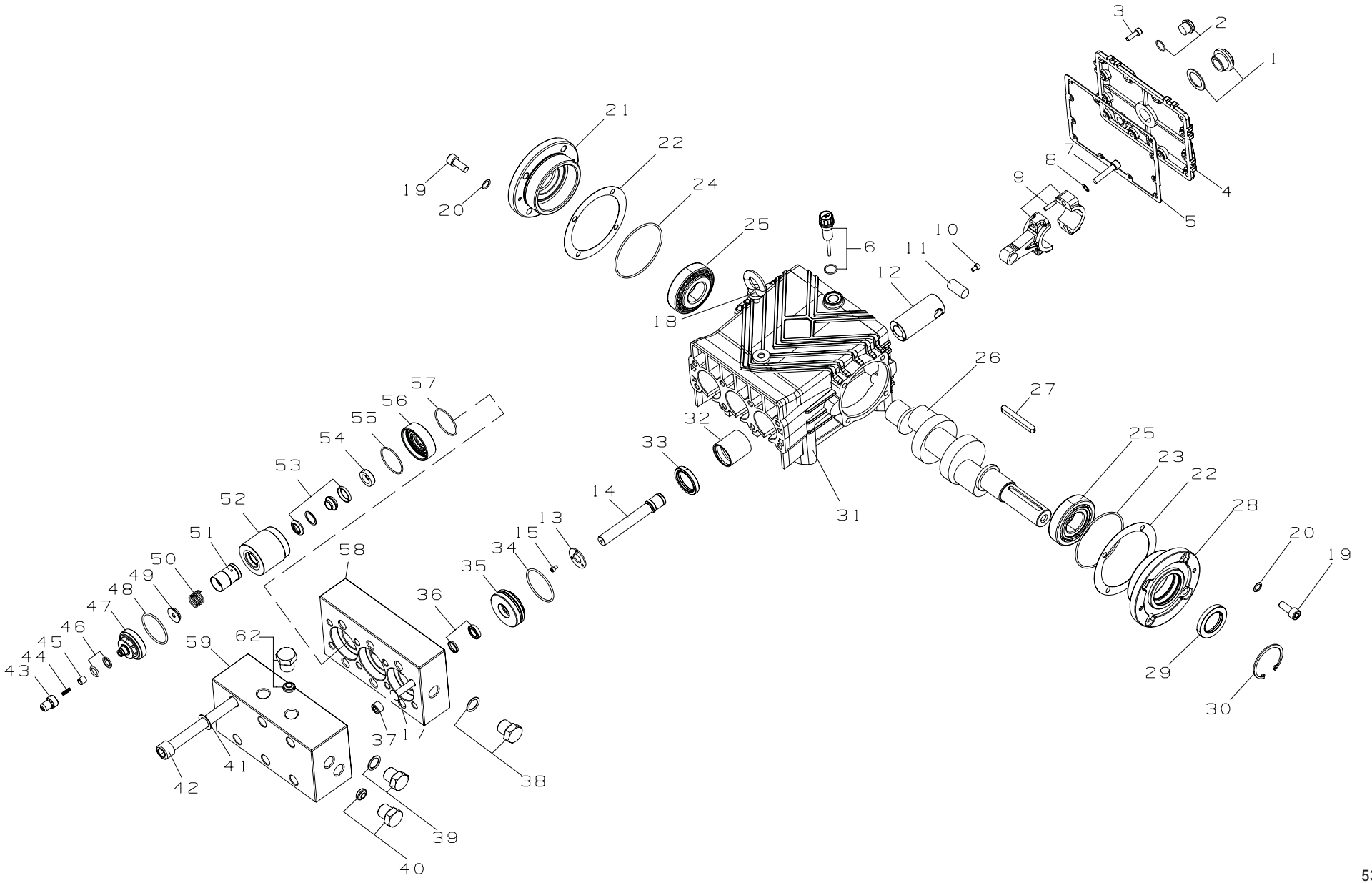
- High-strength stainless-steel pump head provides structural strength and corrosion resistance.
- Forged crankshaft with surface nitriding improves strength and wear resistance.
- The connecting rods are made of a Zn–Cu alloy, improving wear resistance and helping reduce operating noise.
- Tapered roller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

DIMENSIONS(mm)





EXPLODED VIEW



COMPONENTS

ITEM	PART NO.	Name	QTY
1	7.906-160	Oil Sight Glass	1
2	7.400-011	Plug	1
3	7.301-007	Rear Cover Screws	12
4	7.906-011.4	Rear Cover	1
5	7.906-010.3	Rear Cover Oil Washer	1
6	7.906-034	Dipstick	1
7	7.301-020	Connecting Rod Screws	6
8	7.301-031	Connecting Rod Screws Washers	6
9	7.301-014	Copper Connecting Rod	6
10	7.301-017	Plunger Rod Screw	6
11	7.906-033.4	Plunger Rod Pin	3
12	7.906-002.6	Plunger Rod	3
13	7.906-091	Plunger Retainer	3
14	7.906-090	Plunger	3
15	7.301-029	Plunger Retainer Screw	9
17	7.906-145	Double-Sided Toothed Washer	8
18	7.301-016	Hanging Ring	1
19	7.301-023	End Cap Screws	8
20	7.906-145	End Cover Screws And Gaskets	8
21	7.906-011.4	Side Cover	1

ITEM	PART NO.	Name	QTY
22	7.906-048	Bearing Adjustment Shim	1
23	7.906-019.9	End Cover Seal	1
24	7.906-019.9	End Cover Seal	1
25	7.906-014.3	Bearing	1
26	7.906-426	Crankshaft	2
27	7.906-150	Parallel Key	1
28	7.906-011.4	Side Cover	1
29	7.906-051.3	Rotating Oil Seal	1
30	7.301-035	Rotating Oil Seal Circlip	1
31	7.906-011.4	Crankcase	1
32	7.906-079	Crankcase Copper Sleeve	1
33	7.906-051.4	Crankcase Oil Seal	3
34	7.906-049.9	Guide Seat Seal Ring	3
35	7.906-097	Guide Seat	3
36	7.906-347	Low Pressure Water Seal	3
37	7.301-039	Stud	3
38	7.400-001.2	Plug	8
39	7.400-001.2	Plug	1
40	7.906-166	Plug	1
41	7.906-149	Flat Washer	1

ITEM	PART NO.	Name	QTY
42	7.301-038	Stud	8
43	7.906-122	Discharge Valve Seat	3
44	7.906-143	Discharge Valve Spring	3
45	7.906-066	Discharge Valve Disc	3
46	7.906-052.2	Discharge Valve Seal	3
47	7.906-099	Valve Body	3
48	7.906-049.6	Packing Sleeve Seal Ring	3
49	7.906-100	Suction Valve Disc	3
50	7.906-142	Suction Valve Spring	3
51	7.906-779	Bushing	3
52	7.906-093	Packing Sleeve	3
53	7.906-052	Packing	3
54	7.906-102	High Pressure Seal Seat	3
55	7.906-055.3	End Cover Seal Ring	3
56	7.906-094	End Cove	3
57	7.906-055.3	End Cover Seal Ring	3
58	7.906-095	Back Plate	1
59	7.906-096	Pump Head	1
62	7.906-166	Plug	2

REPAIR KITS

Water Seal Kit		
Index	36	53
Part Number	7.906-036.14.15	7.906-052
Name	Low-Pressure Water Seal	Packing
Quantity	3	3

Valve Kit								
Index	43	44	45	46	47	48	49	55
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	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	3	3	3	3	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

Plunger Kit	
Index	14
Part Number	7.906-090
Name	Plunger
Quantity	3

FDK Series
STAINLESS STEEL PUMP

FUSSEN®



Soild Shaft Ø30mm

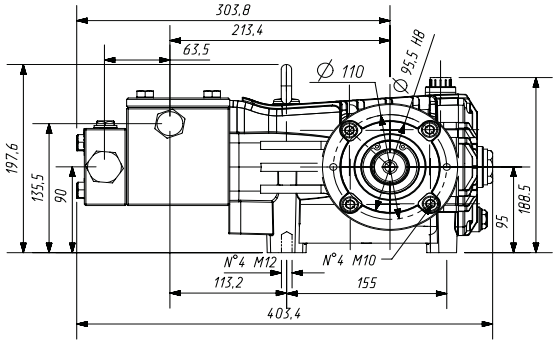
SPECIFICATIONS

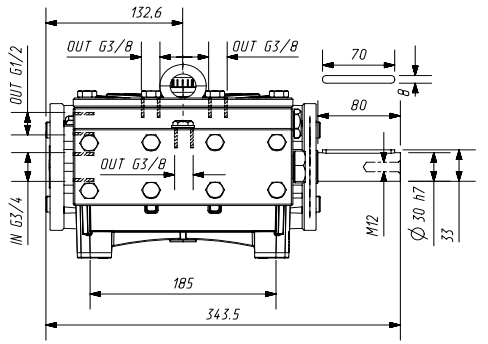
Pump Model	FDK 3050	FDK 4035	FDK 5030	FDK 5525	FDK 3650	FDK 4835	FDK 6030	FDK 6625
Flow Rate (L/min)	30	40	50	55	36	48	60	66
Pressure (bar)	500	350	300	250	500	350	300	250
Power (kw)	28.8	28	30	27.5	36	33.5	36	33
RPM	1450	1450	1450	1450	1750	1750	1750	1750
Shaft Diameter (mm)	30							
Plunger Stroke (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

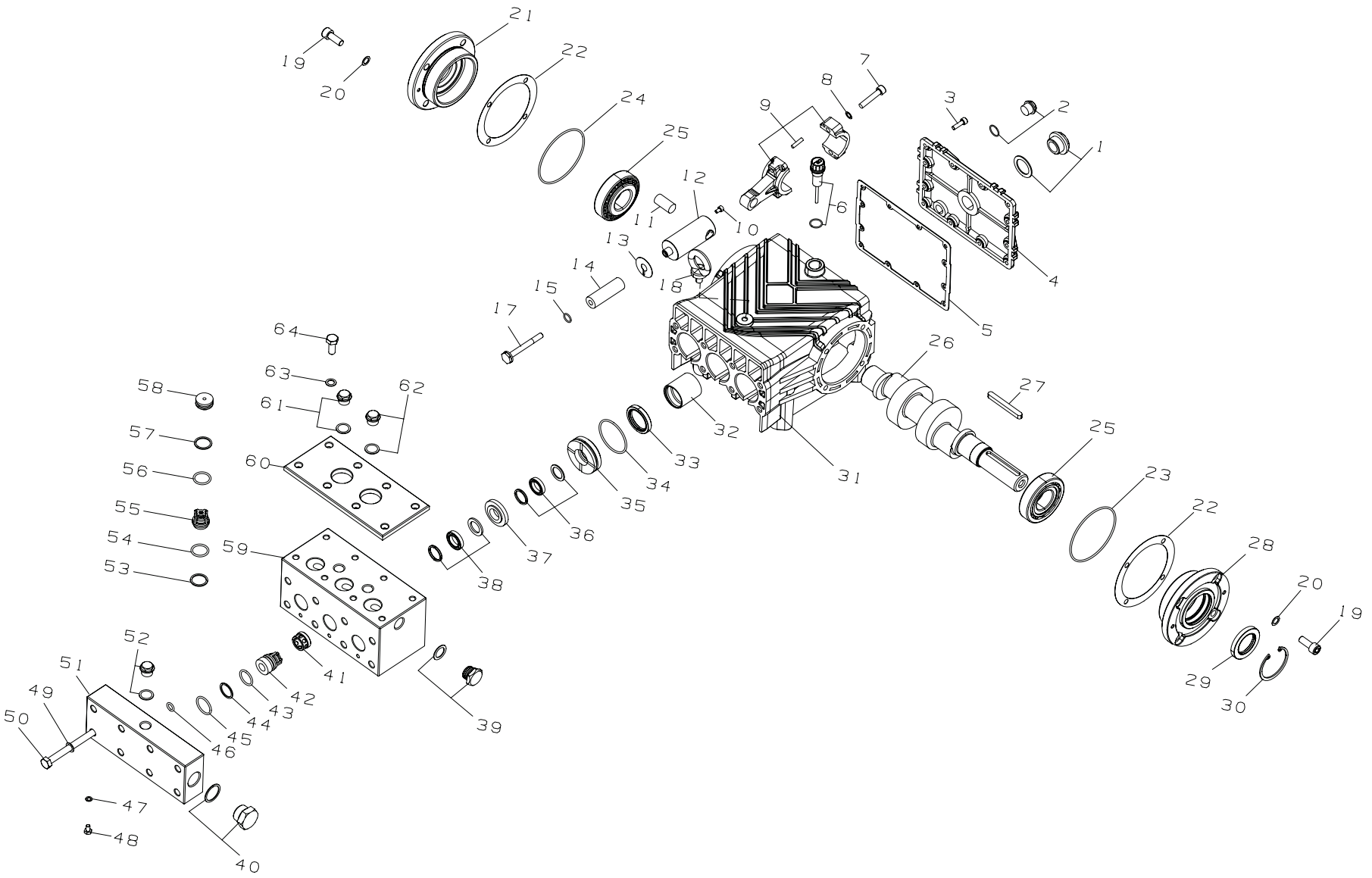
- Stainless-steel high-flow pump head provides corrosion resistance and stability for high-flow operation.
- Forged crankshaft with surface nitriding improves strength and wear resistance.
- The connecting rod is made of a Zn–Cu alloy, improving wear resistance and helping reduce operating noise.
- Tapered 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
1	7.906-160	Oil Sight Glass	1
2	7.400-011.1	Plug	1
3	7.301-007	Rear Cover Screws	12
4	7.906-011.4	Rear Cover	1
5	7.906-010.3	Rear Cover Oil Washer	1
6	7.906-034	Dipstick	1
7	7.301-020	Connecting Rod Screws	6
8	7.301-031	Connecting Rod Screws Washers	6
9	7.906-001.6	Copper Connecting Rod	3
10	7.301-017	Plunger Rod Screw	6
11	7.906-033.4	Plunger Rod Pin	3
12	7.906-002.6	Plunger Rod	3
13	7.906-129	Water Seal Washer	3
14	7.906-003.13	Ceramic Plunger	3
15	7.906-049.3	Ceramic Plunger Seal	3
16	7.906-043.2	Oil Sight Glass Circlip	1
17	7.906-075	Ceramic Plunger Screw	3
18	7.301-016	Hanging Ring	1
19	7.301-023	End Cap Screws	8
20	7.906-145	End Cover Screws And Gaskets	8
21	7.906-011.4	Side Cover	1
22	7.906-048	Bearing Adjustment Shim	1

ITEM	PART NO.	Name	QTY
23	7.906-019.9	End Cover Seal	2
24	7.906-019.9	End Cover Seal	2
25	7.906-014.3	Bearing	2
26	7.906-025.19	Crankshaft	1
27	7.906-150	Parallel Key	1
28	7.906-011.4	Side Cover	1
29	7.906-051.3	Rotating Oil Seal	1
30	7.301-035	Rotating Oil Seal Circlip	1
31	7.906-011.4	Crankcase	1
32	7.906-079	Crankcase Copper Sleeve	3
33	7.906-051.4	Crankcase Oil Seal	3
34	7.906-049.9	Guide Seat Seal Ring	3
35	7.906-082	Guide Seat	3
36	7.906-036.6	Low Pressure Water Seal	3
37	7.906-081	Copper Pressure Ring	3
38	7.906-036.5	High Pressure Water Seal	3
39	7.400-001.2	Plug	1
40	7.400-001.1	Plug	1
41	7.906-080	Inlet Valve Support Seat	3
42	7.906-087	Low-Pressure Valve	3
43	7.906-049.4	Inlet Valve Seal Ring	3

ITEM	PART NO.	Name	QTY
44	7.906-050	Inlet Valve Retaining Ring	3
45	7.906-049.1	Inlet Plate Sealing Ring	3
46	7.906-005.1	Cooling Water Sealing Ring	3
47	7.906-046	Stainless Steel Gasket	3
48	7.301-011	Cooling Water Screw	3
49	7.906-145	Double-Sided Toothed Washer	8
50	7.301-026	Stud	8
51	7.906-077	Water Inlet Cover	1
52	7.400-011	Plug	1
53	7.906-050	High Pressure Valve Retaining Ring	3
54	7.906-049.4	High Pressure Valve Seal	3
55	7.906-086	High Pressure Valve	3
56	7.906-049.4	Copper Seat Sealing Ring	3
57	7.906-050	Copper Seat Retaining Ring	3
58	7.906-067	Valve Copper Seat	3
59	7.906-078	Stainless Steel Pump Head	1
60	7.906-083	High Pressure Cover Plate	1
61	7.400-011	Plug	1
62	7.400-011	Plug	1
63	7.906-145	Double-Sided Toothed Washer	8
64	7.301-023	Screw	8

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

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

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

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

FDL Series
STAINLESS STEEL PUMP

FUSSEN®



Soild Shaft Ø30mm

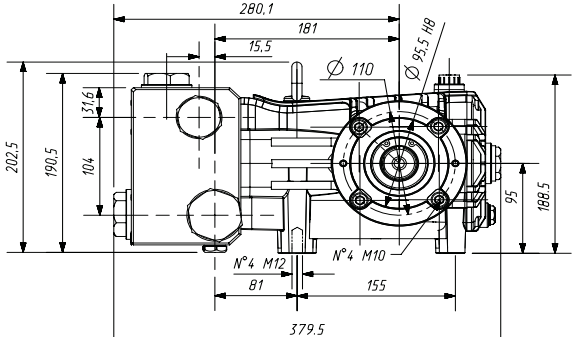
SPECIFICATIONS

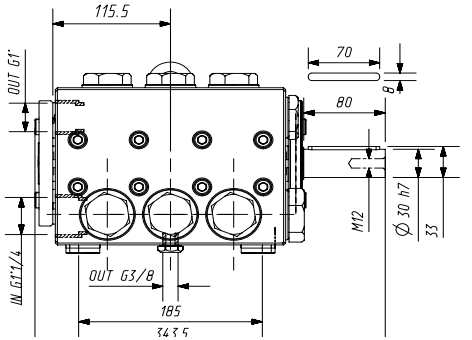
Pump Model	FDL 10015	FDL 12013	FDL 15010	FDL 6915	FDL 8213	FDL 10310
Flow Rate (L/min)	100	120	150	69	82.8	103
Pressure (bar)	150	130	100	150	130	100
Power (kw)	28.8	30	28.8	19.9	20.7	19.9
RPM	1450	1450	1450	1000	1000	1000
Shaft Diameter (mm)	30					
Plunger Stroke (mm)	22	28	34	23	28	34
Plunger Diameter (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

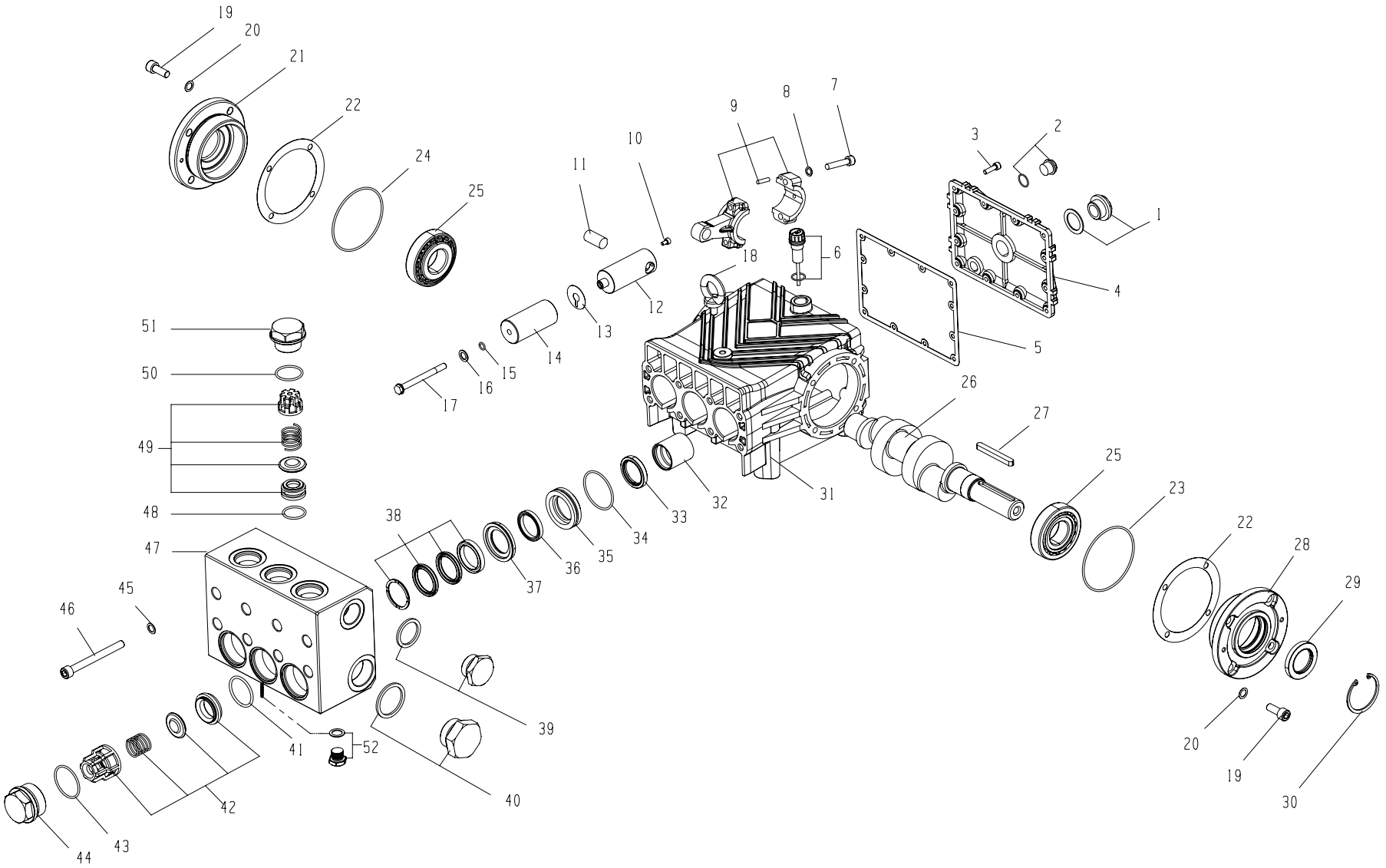
- Stainless-steel high-flow pump head provides corrosion resistance and stability for high-flow operation.
- Forged crankshaft with surface nitriding improves strength and wear resistance.
- The connecting rod is made of a Zn–Cu alloy, improving wear resistance and helping reduce operating noise.
- Tapered 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
1	7.906-160	Oil Sight Glass	1
2	7.400-011	Plug	1
3	7.301-007	Rear Cover Screws	12
4	7.906-011.4	Rear Cover	1
5	7.906-010.3	Rear Cover Oil Washer	1
6	7.906-034	Dipstick	1
7	7.301-020	Connecting Rod Screws	6
8	7.301-031	Connecting Rod Screws Washers	6
9	7.906-001.6	Copper Connecting Rod	6
10	7.301-017	Plunger Rod Screw	6
11	7.906-033.4	Plunger Rod Pin	3
12	7.906-002.6	Plunger Rod	3
13	7.906-129	Water Seal Washer	3
14	7.906-233	Ceramic Plunger	3
15	7.906-049.14	Ceramic Plunger Seal	3
16	7.906-136	Ceramic Plunger Washer	3
17	7.301-036	Ceramic Plunger Screw	3
18	7.301-016	Hanging Ring	1

ITEM	PART NO.	Name	QTY
19	7.301-023	End Cap Screws	3
20	7.906-145	End Cover Screws And Gaskets	3
21	7.906-011.4	Side Cover	3
22	7.906-048	Bearing Adjustment Shim	1
23	7.906-019.9	End Cover Seal	1
24	7.906-019.9	End Cover Seal	3
25	7.906-014.3	Bearing	3
26	7.906-025.17	Crankshaft	3
27	7.906-035.3	Parallel Key	3
28	7.906-011.4	Side Cover	8
29	7.906-051.3	Rotating Oil Seal	8
30	7.301-035	Rotating Oil Seal Circlip	1
31	7.906-011.4	Crankcase	3
32	7.906-079	Crankcase Copper Sleeve	3
33	7.906-051.4	Crankcase Oil Seal	3
34	7.906-049.9	Guide Seat Seal Ring	3
35	7.906-103	Guide Seat	1

ITEM	PART NO.	Name	QTY
36	7.906-370	Low Pressure Water Seal	3
37	7.906-059	Copper Pressure Ring	3
38	7.906-369	High Pressure Water Seal	3
39	7.906-168	G1" Plug	1
40	7.906-169	G1"1/4 Plug	1
41	7.906-049.11	Inlet Valve Seal Ring	3
42	7.906-105	Inlet Valve	3
43	7.906-049.10	Inlet Valve Gland Sealing Ring	3
44	7.906-107	Inlet Valve Gland	3
45	7.906-145	Double-Sided Toothed Washer	8
46	7.301-024	Stud	8
47	7.906-058	Stainless Steel Pump Head	1
48	7.906-049.12	Discharge Valve Seal	3
49	7.906-106	Discharge Valve	3
50	7.906-049.13	Discharge Valve Gland Sealing Ring	3
51	7.906-004	Discharge Valve Gland Screw	3
52	7.400-011	Plug	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

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

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

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

FEH Series
STAINLESS STEEL PUMP



Soild Shaft Ø40mm

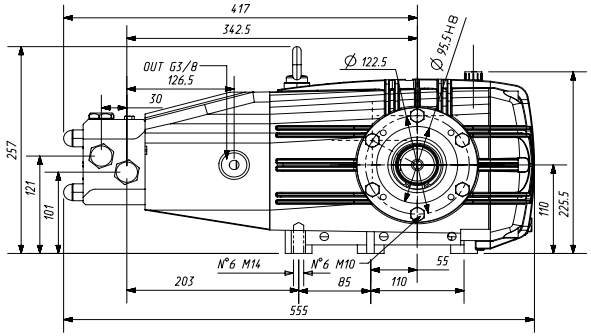
SPECIFICATIONS

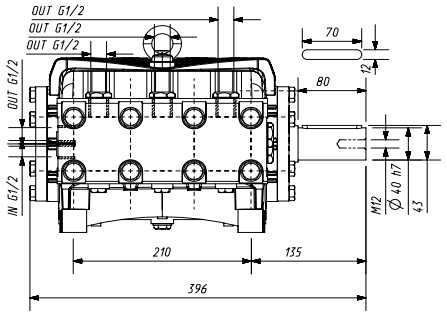
Pump Model	FEH 20100	FEH 20120	FEH 25100	FEH 2580
Flow Rate (L/min)	20	20	25	25
Pressure (bar)	1000	1200	1000	800
Power (kw)	38.5	46.2	48.1	38.5
RPM	1000	1000	1000	1000
Shaft Diameter (mm)	40			
Plunger Stroke (mm)	45			
Plunger Diameter (mm)	14	14	16	16
Oil Capacity (ml)	3450			
Inlet Thread	G 1/2	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

FEATURES

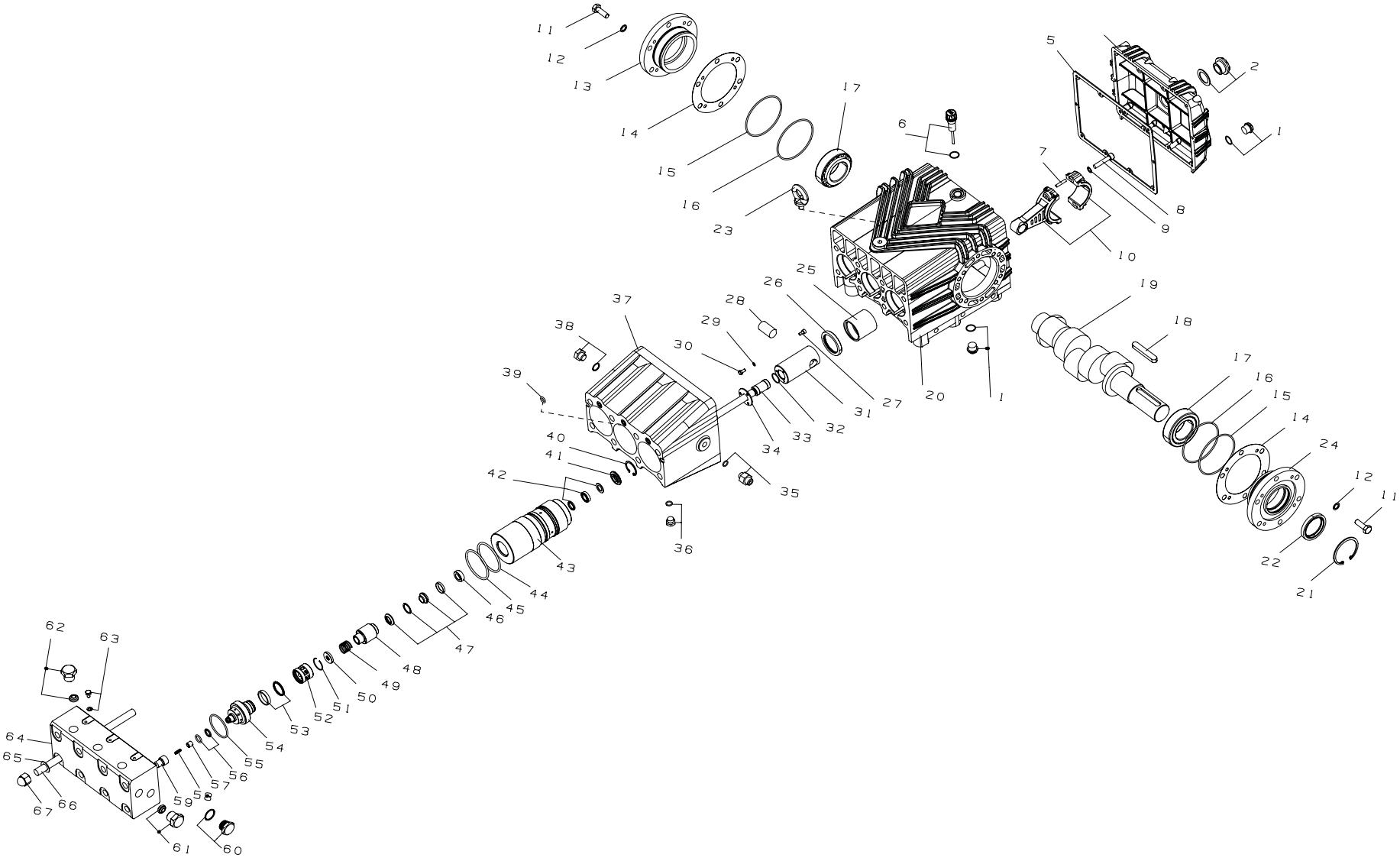
- High-strength stainless-steel pump head provides structural strength and corrosion resistance.
- Forged crankshaft with surface nitriding improves strength and wear resistance.
- The connecting rod is made of a Zn–Cu alloy, improving wear resistance and helping reduce operating noise.
- Tapered roller 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
1	7.400-011	Plug	2
2	7.906-160	Oil Sight Glass	1
3	7.301-013	Rear Cover Screw	10
4	7.906-011.3	Rear Cover	1
5	7.906-010.2	Rear Cover Oil Gasket	1
6	7.903-035	Dipstick	1
7	7.301-014	Connecting Rod Pin	6
8	7.301-020	Connecting Rod Screw	6
9	7.301-031	Connecting Rod Screw Washer	6
10	7.906-001.2	Copper Connecting Rod	3
11	7.301-015	End Cap Screw	12
12	7.906-145	End Cover Screw Washer	12
13	7.906-060	Side Cover	1
14	7.906-048	Bearing Adjustment Shim	1
15	7.906-019.9	Bearing Seal	2
16	7.906-019.9	Bearing Seal	2
17	7.906-014.1	Bearing	2
18	7.906-035.2	Parallel Key	1
19	7.906-177	Crankshaft	1
20	7.906-011.3	Crankcase	1
21	7.906-043.1	Shaft Retaining Ring	1
22	7.906-051.1	Shaft Oil Seal	1
23	7.301-016	Hanging Ring	1

ITEM	PART NO.	Name	QTY
24	7.906-060.1	Side Cover	1
25	7.906-062	Crankcase Copper Sleeve	3
26	7.906-051.2	Crankcase Oil Seal	3
27	7.301-045	Plunger Rod Screw	6
28	7.906-033.3	Plunger Rod Pin	3
29	7.301-033	Plunger Rod Screw Washer	9
30	7.301-045	Plunger Rod Screw	9
31	7.906-002.5	Plunger Rod	3
32	7.906-049.8	Plunger Seal	3
33	7.906-063	Plunger	3
34	7.906-063.1	Plunger Gland	3
35	7.300-022	Return Water Fitting	1
36	7.400-001	Transition Plate Lower Plug	3
37	7.906-029	Transitional Plate	1
38	7.400-011	Transitional Plate Side Plug	1
39	7.906-005.1	Cooling Water Seal Ring	3
40	7.906-043.4	Low Pressure Seal Circlip	3
41	7.906-041.4	Low Pressure Seal Ring	3
42	7.906-036	Low Pressure Water Seal	3
43	7.906-064	Packing Cylinder	3
44	7.906-049.7	Packing Cylinder O-Ring	3
45	7.906-049.7	Packing Cylinder O-Ring	3

ITEM	PART NO.	Name	QTY
46	7.906-042.2	Packing Support Ring	3
47	7.906-052.1	Packing	3
48	7.906-040.6	Guide Seat	3
49	7.906-142	Suction Valve Spring	3
50	7.906-065	Suction Valve Disc	3
51	7.906-141	Suction Valve Circlip	3
52	7.906-065.1	Suction Valve Seat	3
53	7.906-052.3	Suction Valve Seal	3
54	7.906-065.2	Valve Seat	3
55	7.906-049.6	Pump Head Seal	3
56	7.906-052.2	Discharge Valve Seal	3
57	7.906-066	Discharge Valve Disc	3
58	7.906-143	Discharge Valve Spring	3
59	7.906-066.1	Discharge Valve Seat	3
60	7.400-001.2	Low Pressure Plug	1
61	7.906-061	High Pressure Plug	1
62	7.906-061	High Pressure Plug	2
63	7.301-011	Cooling Water Union Nut	3
64	7.906-032.1	Stainless Steel Pump Head	1
65	7.301-030	Flat Washer	8
66	7.906-004.1	Stud	8
67	7.301-019	Nut	8

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

FUSSEN®



Soild Shaft Ø40mm

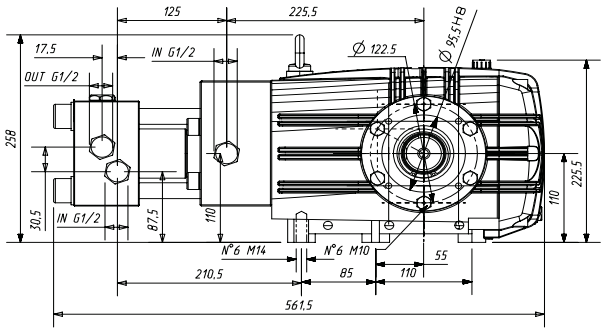
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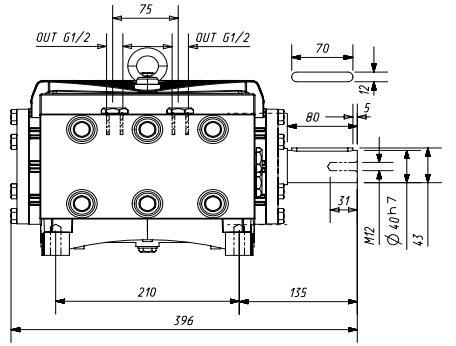
Pump Model	FES 15150	FES 10200
Flow Rate (L/min)	15	10
Pressure (bar)	1500	2000
Power (kw)	45	40
RPM	800	800
Shaft Diameter (mm)	40	40
Plunger Stroke (mm)	45	42
Plunger Diameter (mm)	14	12
Oil Capacity (ml)	3450	3450
Inlet Thread	G 1/2	G 1/2
Outlet Thread	G 1/2	G 1/2
Weight (kg)	79	79
Dimensions (mm)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

FEATURES

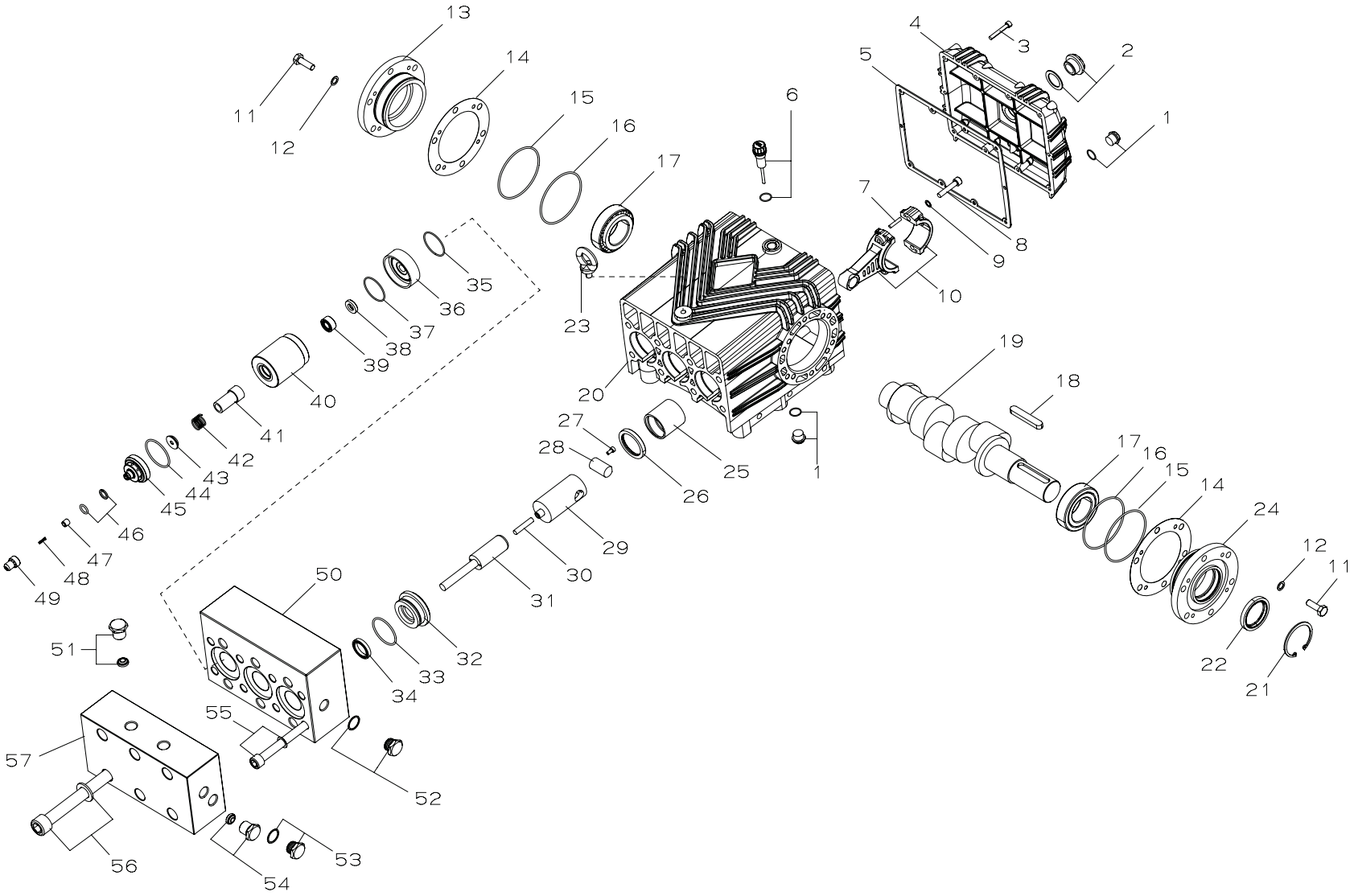
- High-strength stainless-steel pump head provides structural strength and corrosion resistance.
- Forged crankshaft with surface nitriding improves strength and wear resistance.
- The connecting rod is made of a Zn–Cu alloy, improving wear resistance and helping reduce operating noise.
- Tapered roller 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
1	7.400-011	Plug	2
2	7.906-160	Oil Sight Glass	1
3	7.301-013	Rear Cover Screw	10
4	7.906-011.3	Rear Cover	1
5	7.906-010.2	Rear Cover Oil Gasket	1
6	7.903-035	Dipstick	1
7	7.301-014	Connecting Rod Pin	6
8	7.301-020	Connecting Rod Screw	6
9	7.301-031	Connecting Rod Screw Washer	6
10	7.906-001.2	Copper Connecting Rod	3
11	7.301-015	End Cover Screw	12
12	7.906-145	End Cover Screw Washer	12
13	7.906-060	Side Cover	1
14	7.906-048	Bearing Adjustment Shim	1
15	7.906-019.9	Bearing Seal Ring	2
16	7.906-019.9	Bearing Seal Ring	2
17	7.906-014.1	Bearing	2
18	7.906-035.2	Parallel Key	1
19	7.906-177	Crankshaft	1

ITEM	PART NO.	Name	QTY
20	7.906-011.3	Crankcase	1
21	7.906-043.1	Shaft Retaining Ring	1
22	7.906-051.1	Shaft Oil Seal	1
23	7.301-016	Hanging Ring	1
24	7.906-060.1	Side Cover	1
25	7.906-062	Crankcase Copper Sleeve	3
26	7.906-051.2	Crankcase Oil Seal	3
27	7.301-017	Plunger Rod Screw	6
28	7.906-033.3	Plunger Rod Pin	3
29	7.906-024	Plunger Rod	3
30	7.906-650	Connecting Stud	3
31	7.906-158	Alloy Plunger	3
32	7.906-089	Guide Seat	3
33	7.906-049	Guide Seat Seal Ring	3
34	7.906-358	Low Pressure Water Seal	3
35	7.906-055.3	End Cover Seal Ring	3
36	7.906-651	End Cover	3
37	7.906-055.3	End Cover Seal Ring	3
38	7.906-652	High Pressure Seal Seat	3

ITEM	PART NO.	Name	QTY
39	7.906-052.2	Packing	3
40	7.906-653	Packing Cylinder	3
41	7.906-654	Guide Copper Sleeve	3
42	7.906-142	Suction Valve Spring	3
43	7.906-100	Suction Valve Disc	3
44	7.906-049.6	Packing Cylinder O-Ring	3
45	7.906-099	Valve Body	3
46	7.906-052.2	Discharge Valve Seal	3
47	7.906-066	Discharge Valve Disc	3
48	7.906-143	Discharge Valve Spring	3
49	7.906-655	Discharge Valve Seat	3
50	7.906-656	Back Plate	1
51	7.906-166	Plug	2
52	7.400-001.2	Plug	1
53	7.400-001.2	Plug	1
54	7.906-166	Plug	1
55	7.301-022	Back Plate Screw	8
56	7.301-049	Pump Head Screw	6
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

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

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

FEK Series
STAINLESS STEEL PUMP

FUSSEN®



Soild Shaft Ø40mm

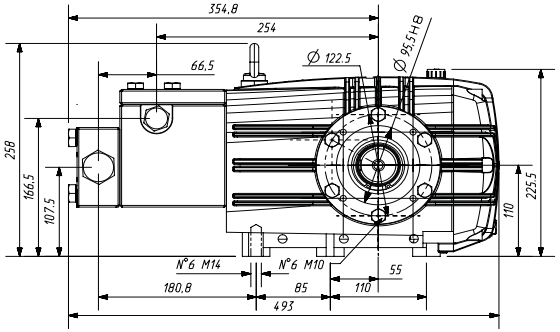
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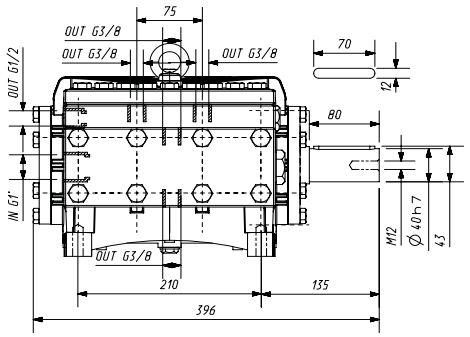
Pump Model	FEK 3075	FEK 3665	FEK 4060	FEK 4850	FEK 5045
Flow Rate (L/min)	30	36	40	48	50
Pressure (bar)	750	650	600	500	450
Power (kw)	43.3	45	46.2	46.2	43.3
RPM	1000	1000	1000	1000	1000
Shaft Diameter (mm)	40				
Plunger Stroke (mm)	35	35	45	42	45
Plunger Diameter (mm)	20	22	20	22	22
Oil Capacity (ml)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

FEATURES

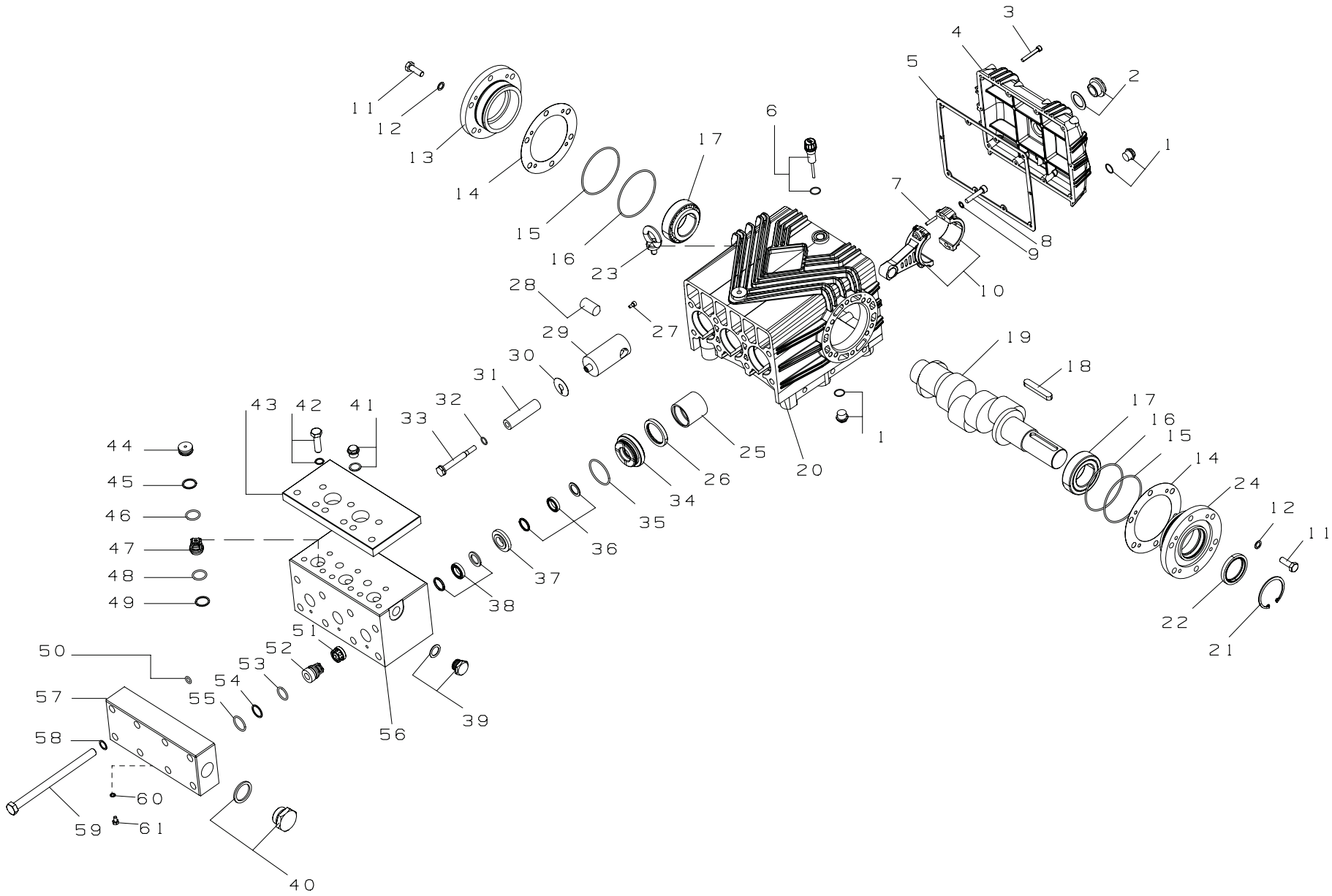
- Stainless-steel high-flow pump head provides corrosion resistance and stability for high-flow operation.
- Forged crankshaft with surface nitriding improves strength and wear resistance.
- The connecting rod is made of a Zn–Cu alloy, improving wear resistance and helping reduce operating noise.
- Tapered 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
1	7.400-011	Plug	2
2	7.906-160	Oil Sight Glass	1
3	7.301-013	Rear Cover Screw	10
4	7.906-011.3	Rear Cover	1
5	7.906-010.2	Rear Cover Oil Gasket	1
6	7.903-035	Dipstick	1
7	7.301-014	Connecting Rod Pin	6
8	7.301-020	Connecting Rod Screw	6
9	7.301-031	Connecting Rod Screw Washer	6
10	7.906-001.2	Copper Connecting Rod	3
11	7.301-015	End Cap Screws	12
12	7.906-145	End Cover Screw Washer	12
13	7.906-060	Side Cover	1
14	7.906-048	Bearing Adjustment Shim	1
15	7.906-019.9	Bearing Seal	2
16	7.906-019.9	Bearing Seal	2
17	7.906-014.1	Bearing	2
18	7.906-035.2	Parallel Key	1
19	7.906-025.14	Crankshaft	1
20	7.906-011.3	Crankcase	1
21	7.906-043.1	Shaft Retaining Ring	1

ITEM	PART NO.	Name	QTY
22	7.906-051.1	Shaft Oil Seal	1
23	7.301-016	Hanging Ring	1
24	7.906-060.1	Side Cover	1
25	7.906-062	Crankcase Copper Sleeve	3
26	7.906-051.2	Crankcase Oil Seal	3
27	7.301-017	Plunger Rod Screw	6
28	7.906-033.3	Plunger Rod Pin	3
29	7.906-024	Plunger Rod	3
30	7.906-012.7	Water Seal Washer	3
31	7.906-161	Ceramic Plunger	3
32	7.906-049.3	Plunger Seal	3
33	7.906-088	Plunger Screw	3
34	7.906-128	Guide Seat	3
35	7.906-049	Guide Seat Seal Ring	3
36	7.906-007.9	Low Pressure Water Seal	3
37	7.906-127	Copper Pressure Ring	3
38	7.906-007.8	High Perssure Water Seal	3
39	7.400-001.2	High Pressure Plug	1
40	7.906-168	Low Pressure Plug	1
41	7.400-011	High Pressure Plug	4

ITEM	PART NO.	Name	QTY
42	7.301-021	High Pressure Cover Screw	9
43	7.906-126	High Pressure Cover	1
44	7.906-067	High Pressure Valve Copper Seat	3
45	7.906-050	HP Valve Copper Seat Slotted Washer	3
46	7.906-049.4	Copper Seat Sealing Ring	3
47	7.906-086	High Pressure Valve	3
48	7.906-049.4	High Pressure Valve Seal	3
49	7.906-050	High Pressure Valve Slotted Washer	3
50	7.906-005.1	Cooling Water Sealing Ring	3
51	7.406-080	Copper Support	3
52	7.906-087	Low Pressure Valve	3
53	7.906-049.4	Low Pressure Valve Seal	3
54	7.906-050	Low Pressure Valve Slotted Washer	3
55	7.906-049.1	Low Pressure Cover Seal	3
56	7.906-125	Stainless Steel Pump Head	1
57	7.906-057	Low Pressure Cover Plate	1
58	7.906-147	Double-Sided Toothed Washer	8
59	7.301-022	Stud	8
60	7.906-046	Combination Gasket	2
61	7.301-011	Cooling Water Screw	2

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

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

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	31
Part Number	7.906-161
Name	Ceramic Plunger
Quantity	3

FEL Series
STAINLESS STEEL PUMP

FUSSEN®



Soild Shaft Ø40mm

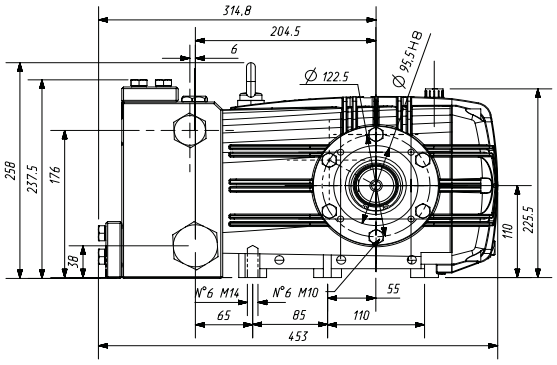
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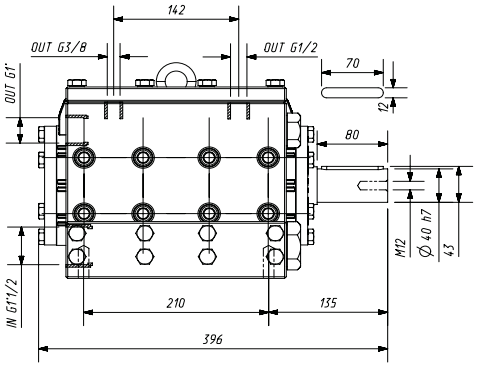
Pump Model	FEL 20010	FEL 21516
Flow Rate (L/min)	200	215
Pressure (bar)	100	160
Power (kw)	38.5	66.2
RPM	1000	1000
Shaft Diameter (mm)	40	40
Plunger Stroke (mm)	42	45
Plunger Diameter (mm)	45	45
Oil Capacity (ml)	3450	3450
Inlet Thread	G 1"1/2	G 1"1/2
Outlet Thread	G 1"	G 1"
Weight (kg)	19.5	19.5
Dimensions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

FEATURES

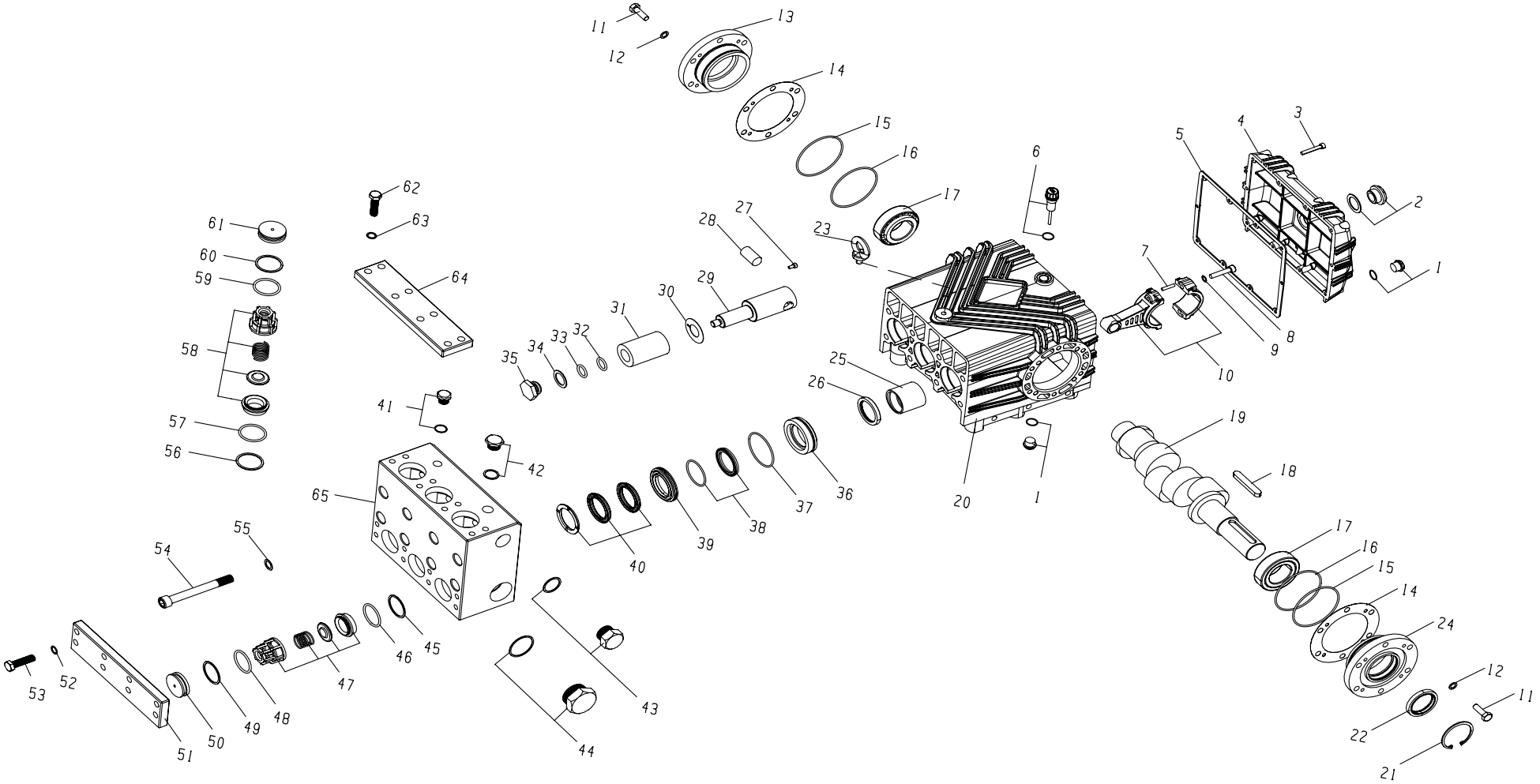
- Stainless-steel high-flow pump head provides corrosion resistance and stability for high-flow operation.
- Forged crankshaft with surface nitriding improves strength and wear resistance.
- The connecting rod is made of a Zn–Cu alloy, improving wear resistance and helping reduce operating noise.
- Tapered 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
1	7.400-011	Plug	2
2	7.906-160	Oil Sight Glass	1
3	7.301-013	Rear Cover Screw	10
4	7.906-011.3	Rear Cover	1
5	7.906-010.2	Rear Cover Oil Gasket	1
6	7.903-035	Dipstick	1
7	7.301-014	Connecting Rod Pin	6
8	7.301-020	Connecting Rod Screw	6
9	7.301-031	Connecting Rod Screw Washer	6
10	7.906-001.2	Copper Connecting Rod	3
11	7.301-015	End Cap Screw	12
12	7.906-145	End Cover Screw Washer	12
13	7.906-060	Side Cover	1
14	7.906-048	Bearing Adjustment Shim	1
15	7.906-019.9	End Cover Seal	2
16	7.906-019.9	End Cover Seal	2
17	7.906-014.1	Bearing	2
18	7.906-035.2	Parallel Key	1
19	7.906-176	Crankshaft	1
20	7.906-011.3	Crankcase	1
21	7.906-043.1	Shaft Circlip	1
22	7.906-051.1	Shaft Oil Seal	1

ITEM	PART NO.	Name	QTY
23	7.301-016	Hanging Ring	1
24	7.906-060.1	Side Cover	1
25	7.906-062	Crankcase Copper Sleeve	3
26	7.906-051.2	Crankcase Oil Seal	3
27	7.301-045	Plunger Rod Screw	6
28	7.906-033.3	Plunger Rod Pin	3
29	7.906-023	Plunger Rod	3
30	7.906-134	Water Seal Washer	3
31	7.906-003.5	Ceramic Plunger	3
32	7.906-172	Plunger Seal	3
33	7.906-172	Plunger Seal	3
34	7.906-136	Plunger Gasket	3
35	7.301-034	Plunger Dry Nut	3
36	7.906-111	Copper End Cap	3
37	7.906-049.2	Copper End Cap Seal Ring	3
38	7.906-357	Low Pressure Water Seal	3
39	7.906-112	Copper Pressure Ring	3
40	7.906-356	High Pressure Water Seal	3
41	7.400-011	Plug	2
42	7.400-001.2	Plug	1
43	7.906-168	Plug	1
44	7.906-167	Plug	1

ITEM	PART NO.	Name	QTY
45	7.906-113	Inlet Valve Retaining Ring	3
46	7.906-049.11	Inlet Valve Seal Ring	3
47	7.906-118	Inlet Valve	3
48	7.906-049.11	Inlet Valve Gland Seal Ring	3
49	7.906-114	Inlet Valve Gland Retaining Ring	3
50	7.906-115	Inlet Valve Gland	3
51	7.906-116	Inlet Valve Cover	1
52	7.906-148	Double Sided Tooth Gasket	8
53	7.301-027	Inlet Valve Cover Nut	8
54	7.301-028	Pump Head Screw	8
55	7.906-147	Double-Sided Toothed Washer	8
56	7.906-113	Outlet Valve Retaining Ring	3
57	7.906-049.11	Outlet Valve Seal Ring	3
58	7.906-119	Outlet Valve	3
59	7.906-049.11	Outlet Valve Gland Sealing Ring	3
60	7.906-114	Outlet Valve Gland Retaining Ring	3
61	7.906-115	Outlet Valve Gland	3
62	7.301-027	Outlet Valve Cover Nut	8
63	7.906-148	Serrated Washer	8
64	7.906-116	Outlet Valve Cover	1
65	7.906-117	Stainless Steel Pump Head	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	26
Part Number	7.906-051.1	7.906-051.2
Name	Shaft Oil Seal	Crankcase Oil Seal
Quantity	1	3

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

FEL Series
STAINLESS STEEL PUMP

FUSSEN®



Soild Shaft Ø40mm

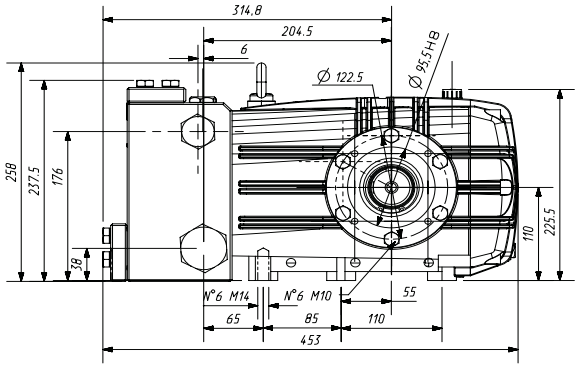
SPECIFICATIONS

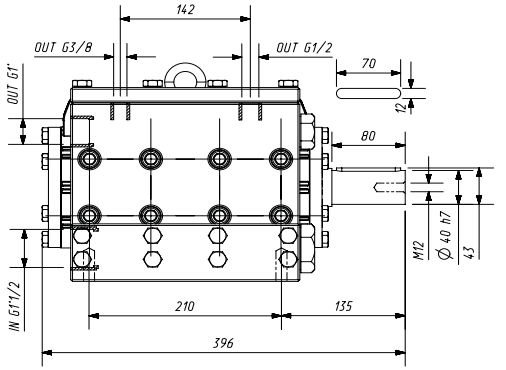
Pump Model	FEL 7535	FEL 10020	FEL 13022	FEL 16018
Flow Rate (L/min)	75	100	130	160
Pressure (bar)	350	200	220	180
Power (kw)	50.5	38.5	55	55.4
RPM	1000			
Shaft Diameter (mm)	40			
Plunger Stroke (mm)	42	35	42	42
Plunger Diameter (mm)	28	36	36	40
Oil Capacity (ml)	3450			
Inlet Thread	G 1"1/2			
Outlet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

FEATURES

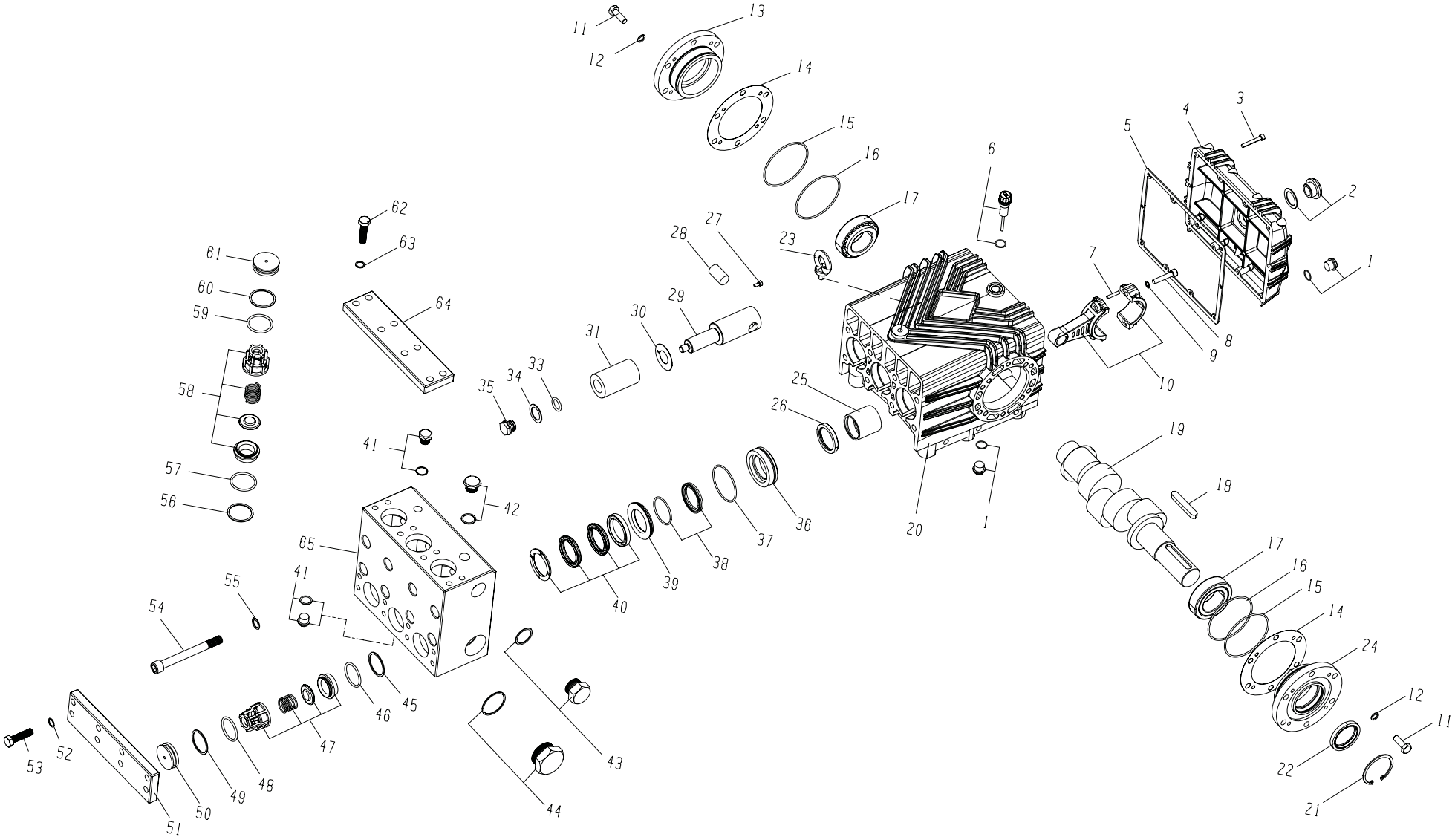
- Stainless-steel high-flow pump head provides corrosion resistance and stability for high-flow operation.
- Forged crankshaft with surface nitriding improves strength and wear resistance.
- The connecting rod is made of a Zn–Cu alloy, improving wear resistance and helping reduce operating noise.
- Tapered 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
1	7.400-011	Plug	2
2	7.906-160	Oil Sight Glass	1
3	7.301-013	Rear Cover Screw	10
4	7.906-011.3	Rear Cover	1
5	7.906-010.2	Rear Cover Oil Gasket	1
6	7.903-035	Dipstick	1
7	7.301-014	Connecting Rod Pin	6
8	7.301-020	Connecting Rod Screw	6
9	7.301-031	Connecting Rod Screw Washer	6
10	7.906-001.2	Copper Connecting Rod	3
11	7.301-015	End Cap Screw	12
12	7.906-145	End Cover Screw Washer	12
13	7.906-060	Side Cover	1
14	7.906-048	Bearing Adjustment Shim	1
15	7.906-019.9	End Cover Seal	2
16	7.906-019.9	End Cover Seal	2
17	7.906-014.1	Bearing	2
18	7.906-035.2	Parallel Key	1
19	7.906-176	Crankshaft	1
20	7.906-011.3	Crankcase	1
21	7.906-043.1	Shaft Circlip	1
22	7.906-051.1	Shaft Oil Seal	1

ITEM	PART NO.	Name	QTY
23	7.301-016	Hanging Ring	1
24	7.906-060.1	Side Cover	1
25	7.906-062	Crankcase Copper Sleeve	3
26	7.906-051.2	Crankcase Oil Seal	3
27	7.301-045	Plunger Rod Screw	6
28	7.906-033.3	Plunger Rod Pin	3
29	7.906-023	Plunger Rod	3
30	7.906-134	Water Seal Washer	3
31	7.906-003.5	Ceramic Plunger	3
33	7.906-172	Plunger Seal	3
34	7.906-136	Plunger Gasket	3
35	7.301-034	Plunger Dry Nut	3
36	7.906-111	Copper End Cap	3
37	7.906-049.2	Copper End Cap Seal Ring	3
38	7.906-357	Low-Pressure Water Seal	3
39	7.906-112	Copper Pressure Ring	3
40	7.906-356	High Pressure Water Seal	3
41	7.400-011	Plug	2
42	7.400-001.2	Plug	1
43	7.906-168	Plug	1
44	7.906-167	Plug	1

ITEM	PART NO.	Name	QTY
45	7.906-113	Inlet Valve Retaining Ring	3
46	7.906-049.11	Inlet Valve Seal Ring	3
47	7.906-118	Inlet Valve	3
48	7.906-049.11	Inlet Valve Gland Seal Ring	3
49	7.906-114	Inlet Valve Gland Retaining Ring	3
50	7.906-115	Inlet Valve Gland	3
51	7.906-116	Inlet Valve Cover	1
52	7.906-148	Double Sided Tooth Gasket	8
53	7.301-027	Inlet Valve Cover Nut	8
54	7.301-028	Pump Head Screw	8
55	7.906-147	Double-Sided Toothed Washer	8
56	7.906-113	Outlet Valve Retaining Ring	3
57	7.906-049.11	Outlet Valve Seal Ring	3
58	7.906-119	Outlet Valve	3
59	7.906-049.11	Outlet Valve Gland Sealing Ring	3
60	7.906-114	Outlet Valve Gland Retaining Ring	3
61	7.906-115	Outlet Valve Gland	3
62	7.301-027	Outlet Valve Cover Nut	8
63	7.906-148	Serrated Washer	8
64	7.906-116	Outlet Valve Cover	1
65	7.906-117	Stainless Steel Pump Head	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	26
Part Number	7.906-051.1	7.906-051.2
Name	Shaft Oil Seal	Crankcase Oil Seal
Quantity	1	3

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

FEK-G Series
STAINLESS STEEL PUMP



Soild Shaft Ø40mm

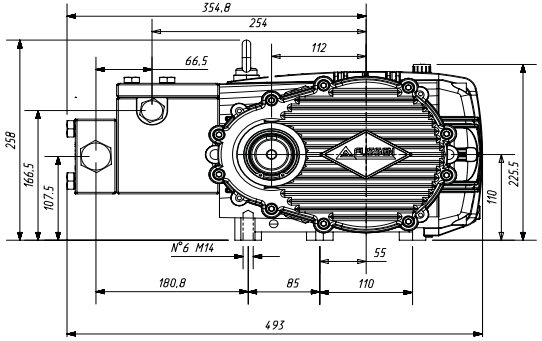
SPECIFICATIONS

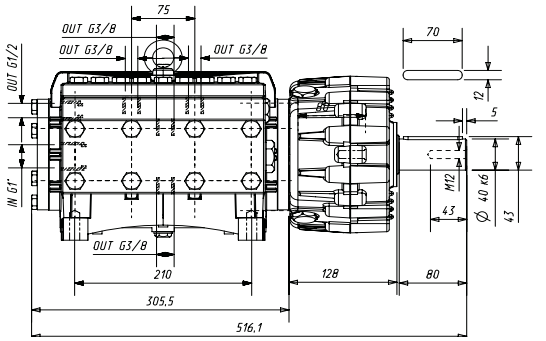
Pump Model	FEK-G 3075	FEK-G 3665	FEK-G 4060	FEK-G 4850	FEK-G 5045	FEK-G 2275	FEK-G 2765	FEK-G 3060	FEK-G 3650	FEK-G 3745
Flow Rate (L/min)	30	36	40	48	50	22.5	27	30	36	37.5
Pressure (bar)	750	650	600	500	450	750	650	600	500	450
Power (kw)	43.3	45	46.2	46.2	43.3	32.5	33.8	34.6	34.6	32.5
RPM	1000	1000	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									

FEATURES

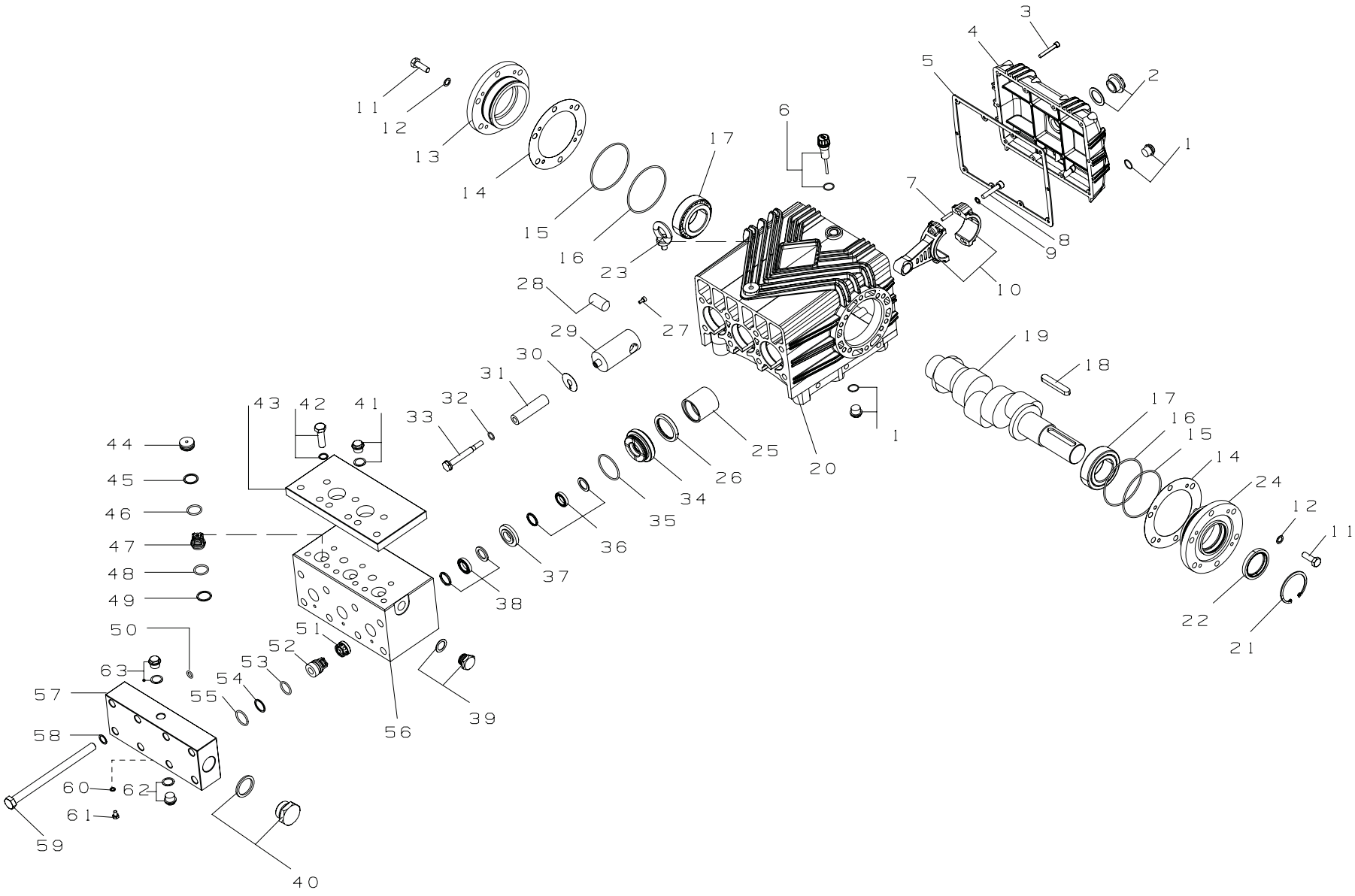
- Stainless-steel high-flow pump head provides corrosion resistance and stability for high-flow operation.
- Forged crankshaft with surface nitriding improves strength and wear resistance.
- The connecting rod is made of a Zn–Cu alloy, improving wear resistance and helping reduce operating noise.
- Tapered 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
1	7.400-011	Plug	2
2	7.906-160	Oil Sight Glass	1
3	7.301-013	Rear Cover Screw	10
4	7.906-011.3	Rear Cover	1
5	7.906-010.2	Rear Cover Oil Gasket	1
6	7.903-035	Dipstick	1
7	7.301-014	Connecting Rod Pin	6
8	7.301-020	Connecting Rod Screw	6
9	7.301-031	Connecting Rod Screw Washer	6
10	7.906-001.2	Copper Connecting Rod	3
11	7.301-015	End Cap Screws	12
12	7.906-145	End Cover Screw Washer	12
13	7.906-060	Side Cover	1
14	7.906-048	Bearing Adjustment Shim	1
15	7.906-019.9	End Cover Seal	2
16	7.906-019.9	End Cover Seal	2
17	7.906-014.1	Bearing	2
18	7.906-035.2	Parallel Key	1
19	7.906-177	Crankshaft	1
20	7.906-011.3	Crankcase	1
21	7.906-043.1	Shaft Retaining Ring	1

ITEM	PART NO.	Name	QTY
22	7.906-051.1	Shaft Oil Seal	1
23	7.301-016	Hanging Ring	1
24	7.906-060.1	Side Cover	1
25	7.906-062	Crankcase Copper Sleeve	3
26	7.906-051.2	Crankcase Oil Seal	3
27	7.301-017	Plunger Rod Screw	6
28	7.906-033.3	Plunger Rod Pin	3
29	7.906-024	Plunger Rod	3
30	7.906-012.7	Water Seal Washer	3
31	7.906-003.9	Ceramic Plunger	3
32	7.906-049.3	Plunger Seal	3
33	7.906-088	Plunger Screw	3
34	7.906-089	Guide Seat	3
35	7.906-049	Guide Seat Seal Ring	3
36	7.906-036.6	Low Pressure Water Seal	3
37	7.906-081	Copper Pressure Ring	3
38	7.906-036.5	High Pressure Water Seal	3
39	7.400-001.2	High Pressure Plug	1
40	7.906-168	Low Pressure Plug	1
41	7.400-011	High Pressure Plug	2
42	7.301-021	High Pressure Cover Screw	9

ITEM	PART NO.	Name	QTY
43	7.906-057.1	High Pressure Cover	1
44	7.906-067	High Pressure Valve Copper Seat	3
45	7.906-050	HP Valve Copper Seat Slotted Washer	3
46	7.906-049.4	Copper Seat Sealing Ring	3
47	7.906-086	High Pressure Valve	3
48	7.906-049.4	High Pressure Valve Seal Ring	3
49	7.906-050	High Pressure Valve Slotted Washer	3
50	7.906-005.1	Cooling Water Sealing Ring	3
51	7.406-080	Copper Support	3
52	7.906-087	Low-Pressure Valve	3
53	7.906-049.4	Low Pressure Valve Seal Ring	3
54	7.906-050	Low Pressure Valve Slotted Washer	3
55	7.906-049.1	Low Pressure Cover Seal Ring	3
56	7.906-057.2	Stainless Steel Pump Head	1
57	7.906-057	Low Pressure Cover Plate	1
58	7.906-147	Double-Sided Toothed Washer	8
59	7.301-022	Stud	8
60	7.906-046	Combination Gasket	2
61	7.301-011	Cooling Water Screw	2
62	7.400-011	High Pressure Plug	1
63	7.400-011	High Pressure Plug	1

REPAIR KITS

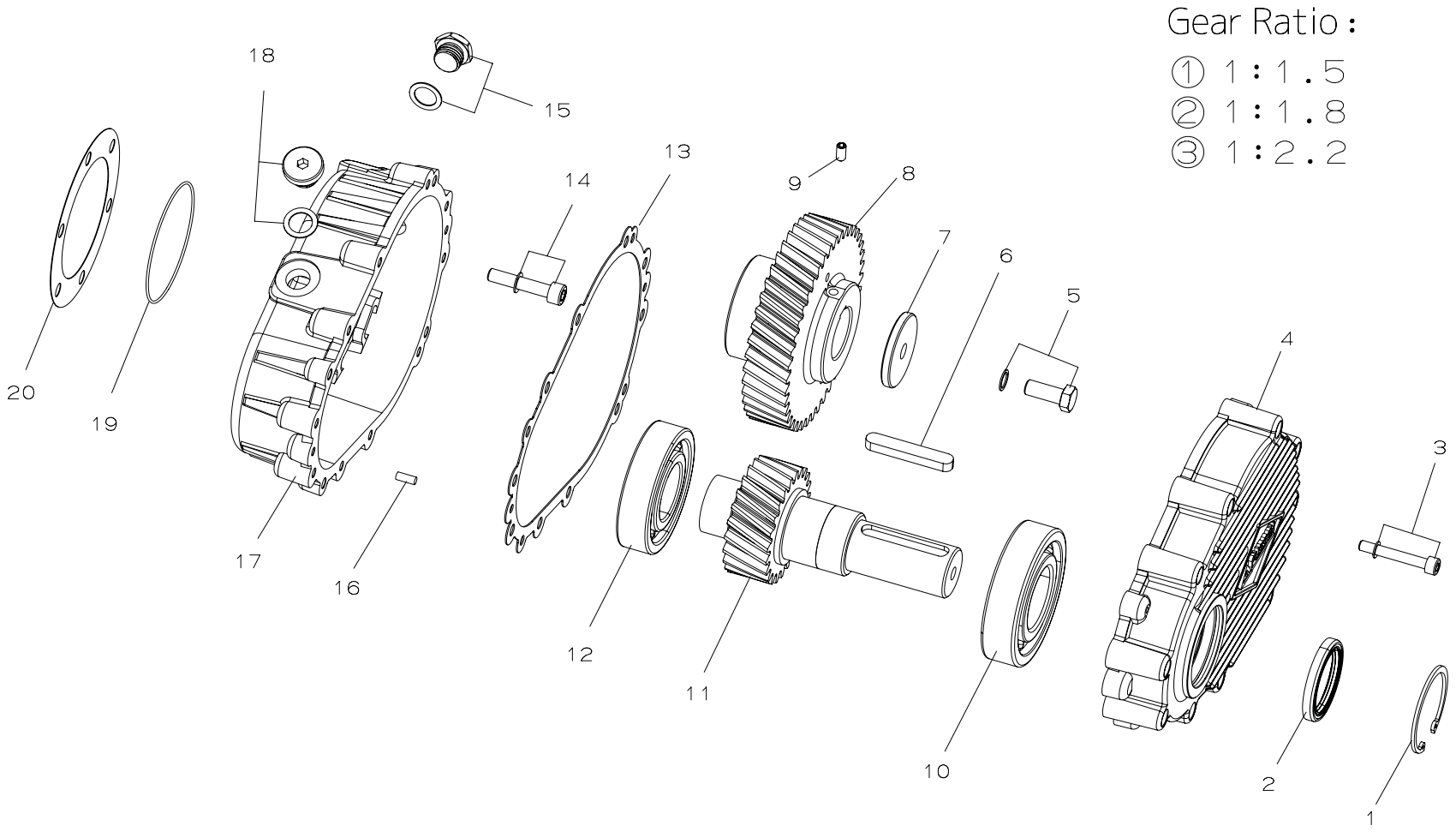
Water Seal Kit		
Index	36	38
Part Number	7.906-036.6	7.906-036.5
Name	Low Pressure Water Seal	High Pressure Water Seal
Quantity	3	3

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

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	31
Part Number	7.906-003.9
Name	Ceramic Plunger
Quantity	3

EXPLODED VIEW (GEARBOX)

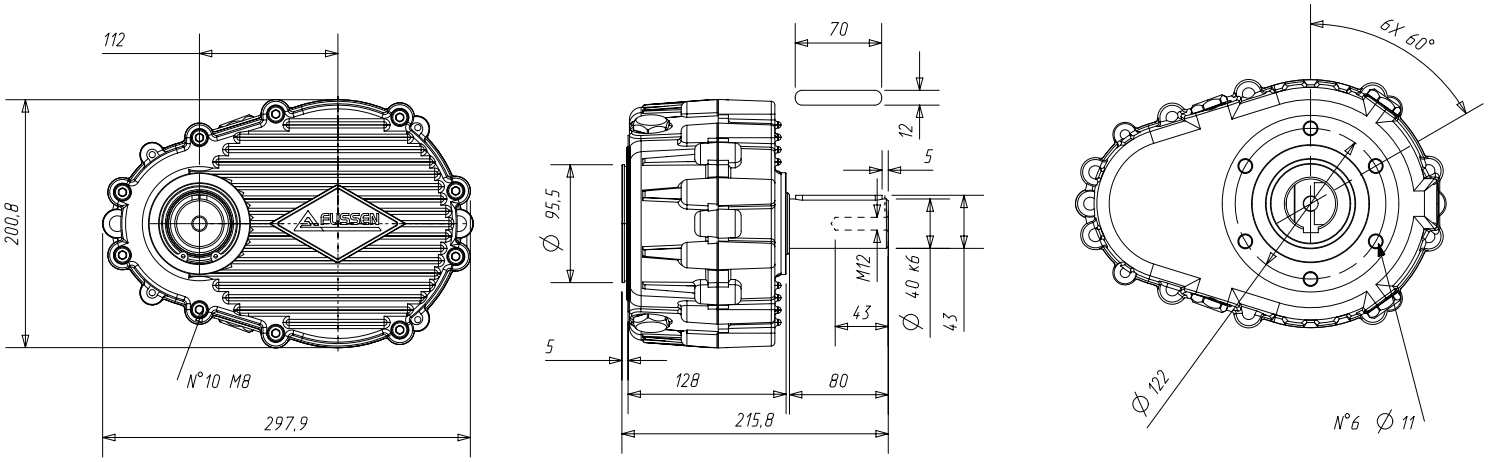


COMPONENTS (GEARBOX)

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

FUSSEN®



Soild Shaft Ø40mm

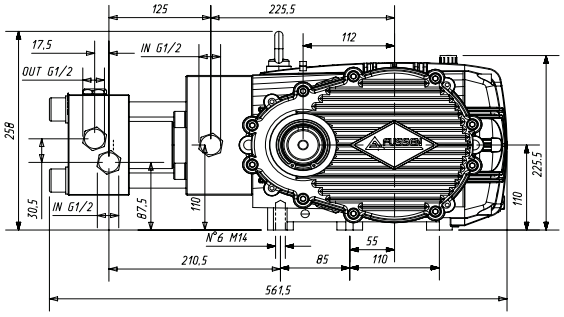
SPECIFICATIONS

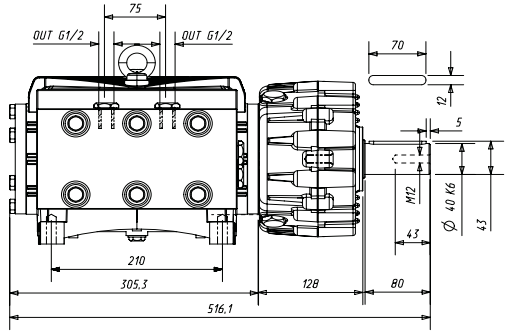
Pump Model	FES-G15150	FES-G10200
Flow Rate (L/min)	15	10
Pressure (bar)	1500	2000
Power (kw)	45	40
RPM	800	800
Shaft Diameter (mm)	40	40
Plunger Stroke (mm)	45	42
Plunger Diameter (mm)	14	12
Oil Capacity (ml)	3450	3450
Inlet Thread	G 1/2	G 1/2
Outlet Thread	G 1/2	G 1/2
Weight (kg)	79	79
Dimensions (mm)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

FEATURES

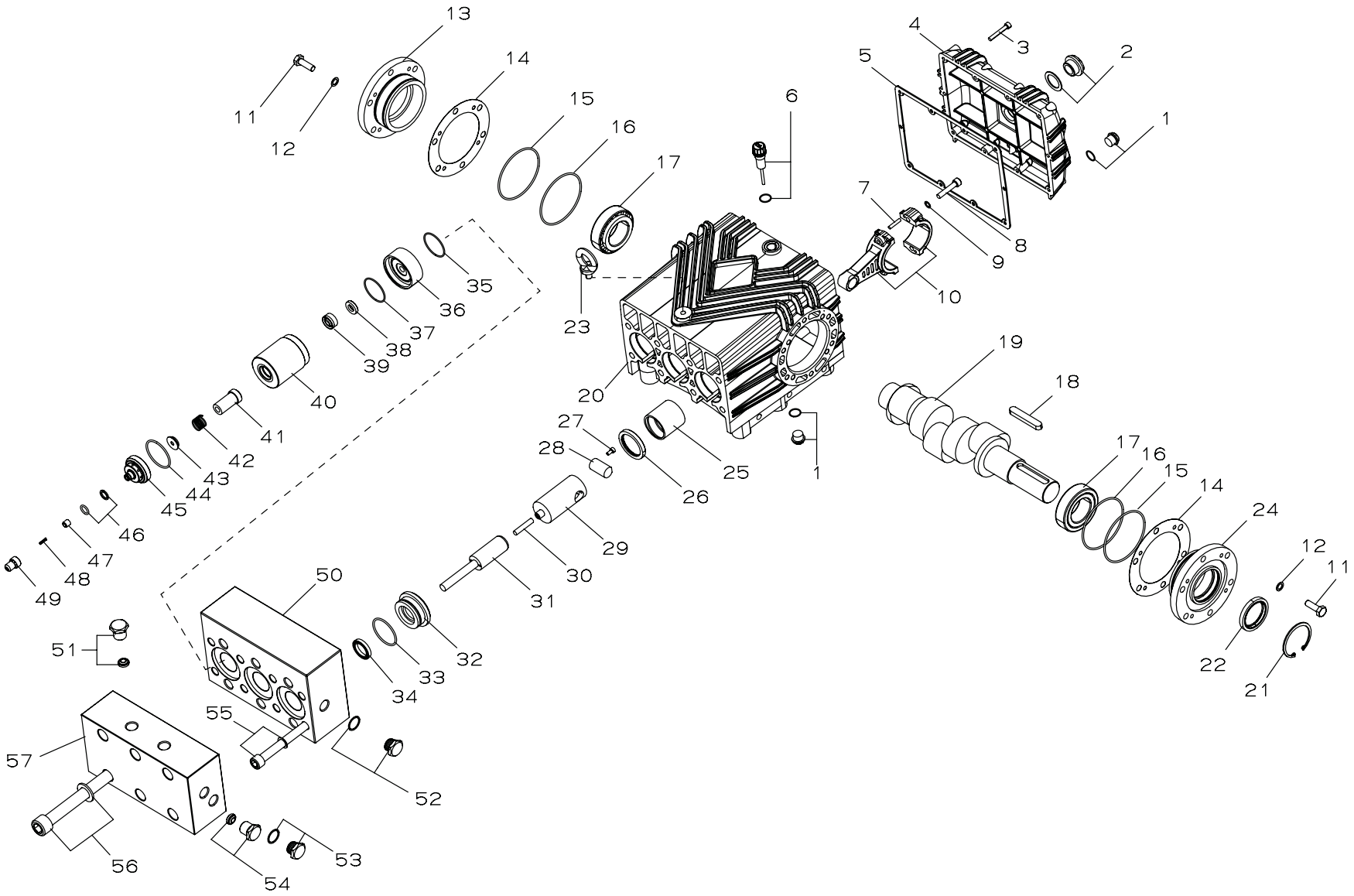
- High-strength stainless-steel pump head provides structural strength and corrosion resistance.
- Forged crankshaft with surface nitriding improves strength and wear resistance.
- The connecting rod is made of a Zn–Cu alloy, improving wear resistance and helping reduce operating noise.
- Tapered roller 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
1	7.400-011	Plug	2
2	7.906-160	Oil Sight Glass	1
3	7.301-013	Rear Cover Screw	10
4	7.906-011.3	Rear Cover	1
5	7.906-010.2	Rear Cover Oil Gasket	1
6	7.903-035	Dipstick	1
7	7.301-014	Connecting Rod Pin	6
8	7.301-020	Connecting Rod Screw	6
9	7.301-031	Connecting Rod Screw Washer	6
10	7.906-001.2	Copper Connecting Rod	3
11	7.301-015	End Cap Screw	12
12	7.906-145	End Cover Screw Washer	12
13	7.906-060	Side Cover	1
14	7.906-048	Bearing Adjustment Shim	1
15	7.906-019.9	End Cover Seal	2
16	7.906-019.9	End Cover Seal	2
17	7.906-014.1	Bearing	2
18	7.906-035.2	Parallel Key	1
19	7.906-177	Crankshaft	1

ITEM	PART NO.	Name	QTY
20	7.906-011.3	Crankcase	1
21	7.906-043.1	Shaft Retaining Ring	1
22	7.906-051.1	Shaft Oil Seal	1
23	7.301-016	Hanging Ring	3
24	7.906-060.1	Side Cover	3
25	7.906-062	Crankcase Copper Sleeve	6
26	7.906-051.2	Crankcase Oil Seal	3
27	7.301-017	Plunger Rod Screw	3
28	7.906-033.3	Plunger Rod Pin	3
29	7.906-024	Plunger Rod	3
30	7.906-650	Connecting Stud	3
31	7.906-158	Alloy Plunger	3
32	7.906-089	Guide Seat	3
33	7.906-049	Guide Seat Seal Ring	3
34	7.906-358	Low Pressure Water Seal	3
35	7.906-055.3	End Cover Seal Ring	3
36	7.906-651	End Cover	3
37	7.906-055.3	End Cover Seal Ring	1
38	7.906-652	High Pressure Seal Holder	4

ITEM	PART NO.	Name	QTY
39	7.906-052.2	Packing	9
40	7.906-653	Packing Cylinder	1
41	7.906-654	Guide Copper Sleeve	3
42	7.906-142	Suction Valve Spring	3
43	7.906-100	Suction Valve Plate	3
44	7.906-049.6	Packing Cylinder O-Ring	3
45	7.906-099	Valve Body	3
46	7.905-052.2	Discharge Valve Seal	3
47	7.906-066	Discharge Valve Disc	3
48	7.906-143	Discharge Valve Spring	3
49	7.906-655	Discharge Valve Seat	3
50	7.906-656	Back Plate	3
51	7.906-166	Plug	3
52	7.400-001.2	Plug	3
53	7.400-001.2	Plug	1
54	7.906-166	Plug	1
55	7.301-022	Back Plate Screw	8
56	7.301-049	Pump Head Screw	8
57	7.906-657	Pump Head	2

REPAIR KITS

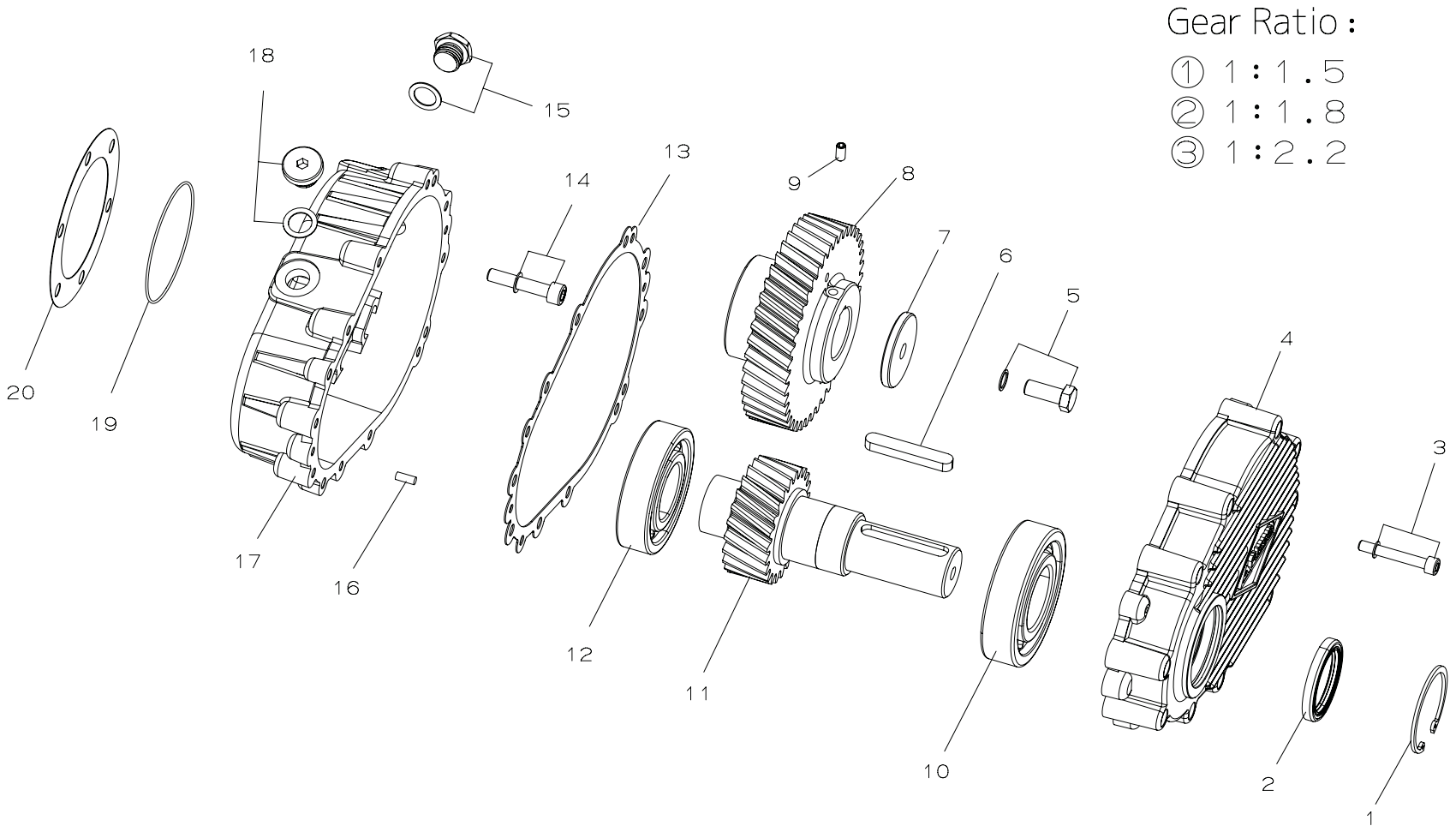
Water Seal Kit				
Index	34	35	37	39
Part Number	7.906-358	7.906-055.3	7.906-055.3	7.906-052.2
Name	Low Pressure Water Seal	End Cover Seal Ring	End Cover Seal Ring	Packing
Quantity	3	3	3	3

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

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	31
Part Number	7.906-158
Name	Alloy Plunger
Quantity	3

EXPLODED VIEW (GEARBOX)

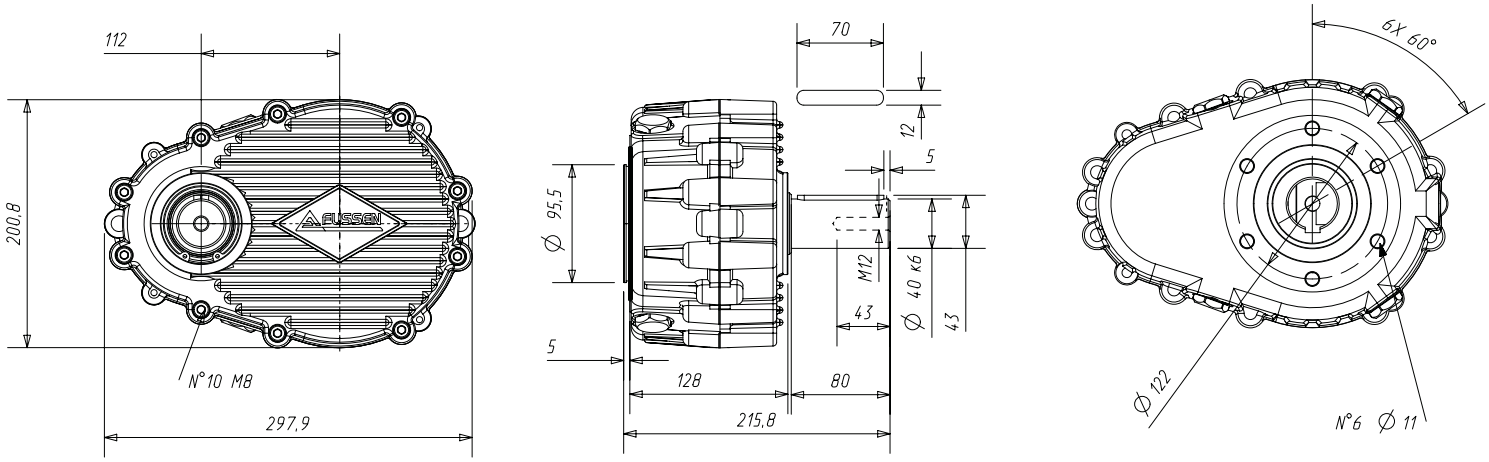


COMPONENTS (GEARBOX)

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)



FFS-G Series
STAINLESS STEEL PUMP

FUSSEN®



Soild Shaft Ø60mm

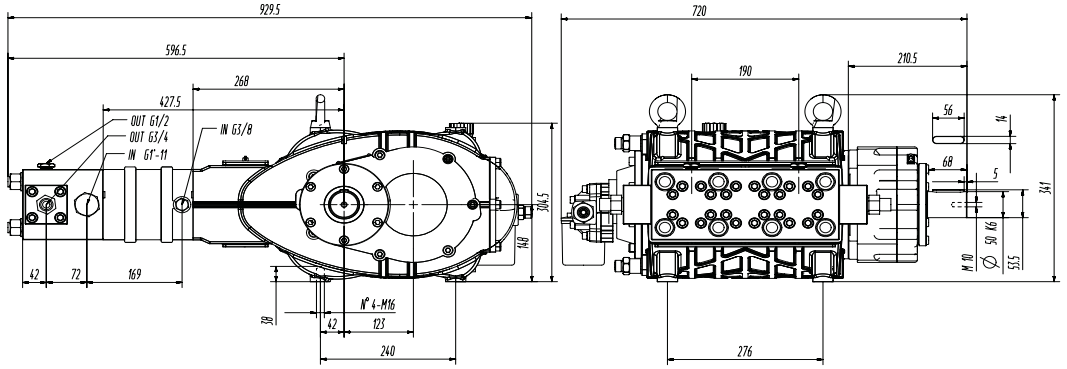
SPECIFICATIONS

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			

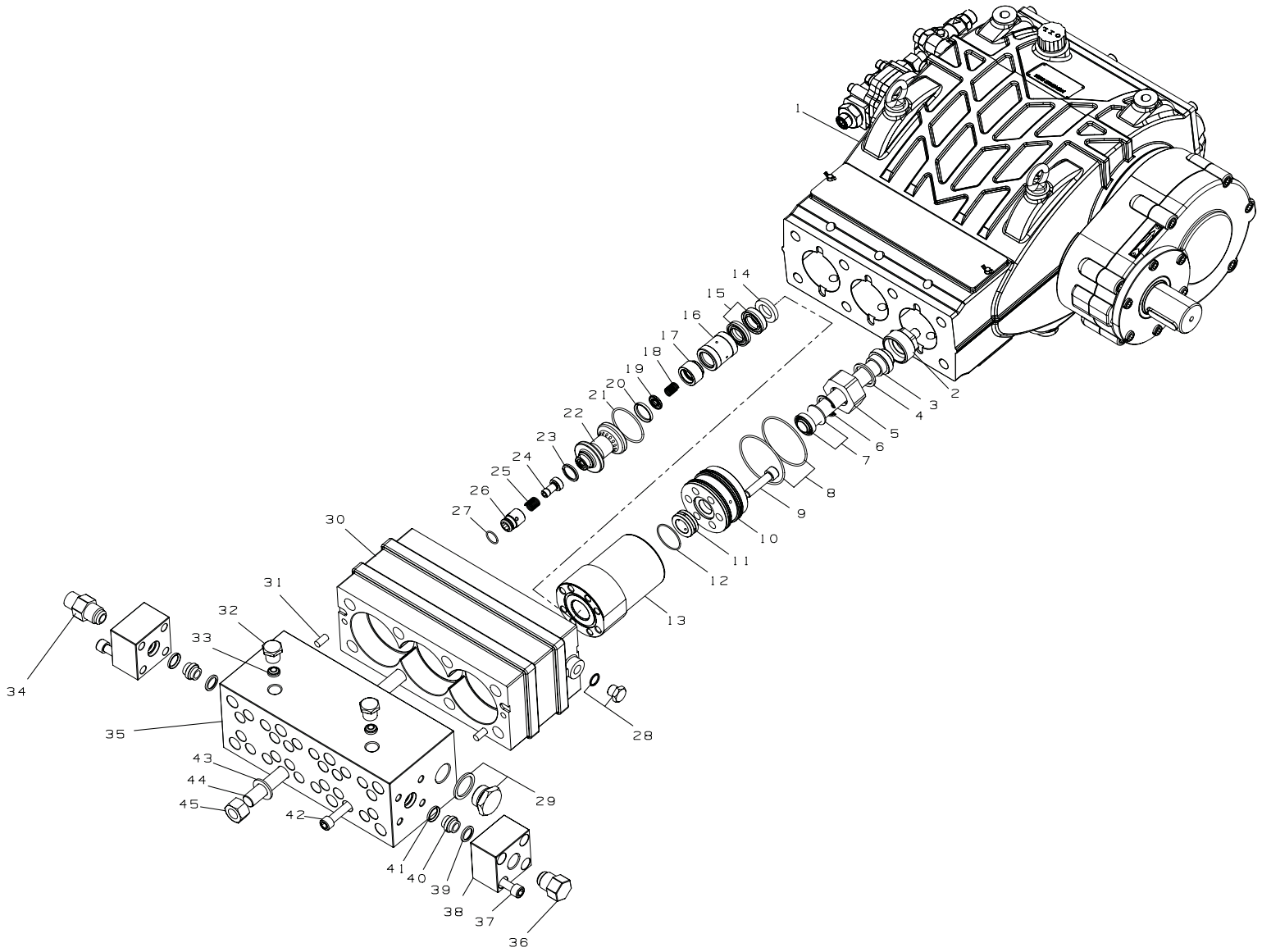
FEATURES

- 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
1	Crankcase with Gearbox	1
2	Plunger Connecting Bolt	3
3	Plunger	3
4	Plunger Cushion Pad	3
5	Plunger Connecting Nut	3
6	Low-Pressure Water Seal Retaining Ring	3
7	Low-Pressure Water Seal	3
8	Cooling Water Seal Ring	6
9	High-Pressure Cylinder Connecting Bolt	18
10	High-Pressure Cylinder Rear Seat	3
11	High-Pressure Cylinder Positioning Seat	3
12	High-Pressure Cylinder Rear Seal Ring	3
13	High-Pressure Cylinder	3
14	Water Seal Brass Seat	3
15	High-Pressure Water Seal	6

ITEM	Name	QTY
16	Seal Support Ring	3
17	Suction Valve Seat	3
18	Suction Valve Spring	3
19	Suction Valve Disc	3
20	Suction Valve Body O-Ring	3
21	Cylinder Head Seal Ring	3
22	Valve Body	3
23	Discharge Valve Body O-Ring	3
24	Discharge Valve Disc	3
25	Discharge Valve Spring	3
26	Discharge Valve Seat	3
27	Discharge Valve Seat O-Ring	3
28	Cooling Water Plug	2
29	Water Inlet Plug	2
30	Adapter Plate	1

ITEM	Name	QTY
31	Pin	2
32	High-Pressure Plug	2
33	High-Pressure Plug Seal Ring	2
34	High-Pressure Outlet Fitting	1
35	Pump Head	1
36	High-Pressure Outlet Plug	1
37	Outlet Valve Block Connecting Bolt	8
38	Outlet Valve Block	2
39	Outlet Valve Block Seal Ring	2
40	Outlet Valve Block Positioning Ring	2
41	Outlet Valve Block Seal Ring	2
42	Pump Head to Cylinder Connecting Bolt	24
43	M20 Flat Washer	8
44	M20 Stud Bolt	8
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

FUSSEN®



Soild Shaft Ø50mm

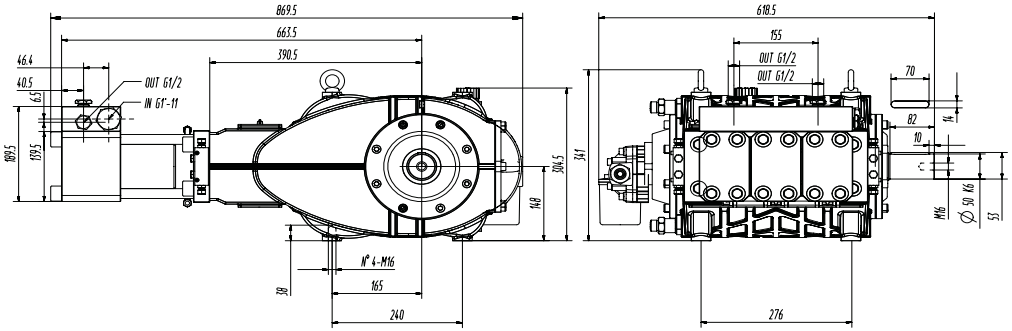
SPECIFICATIONS

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						

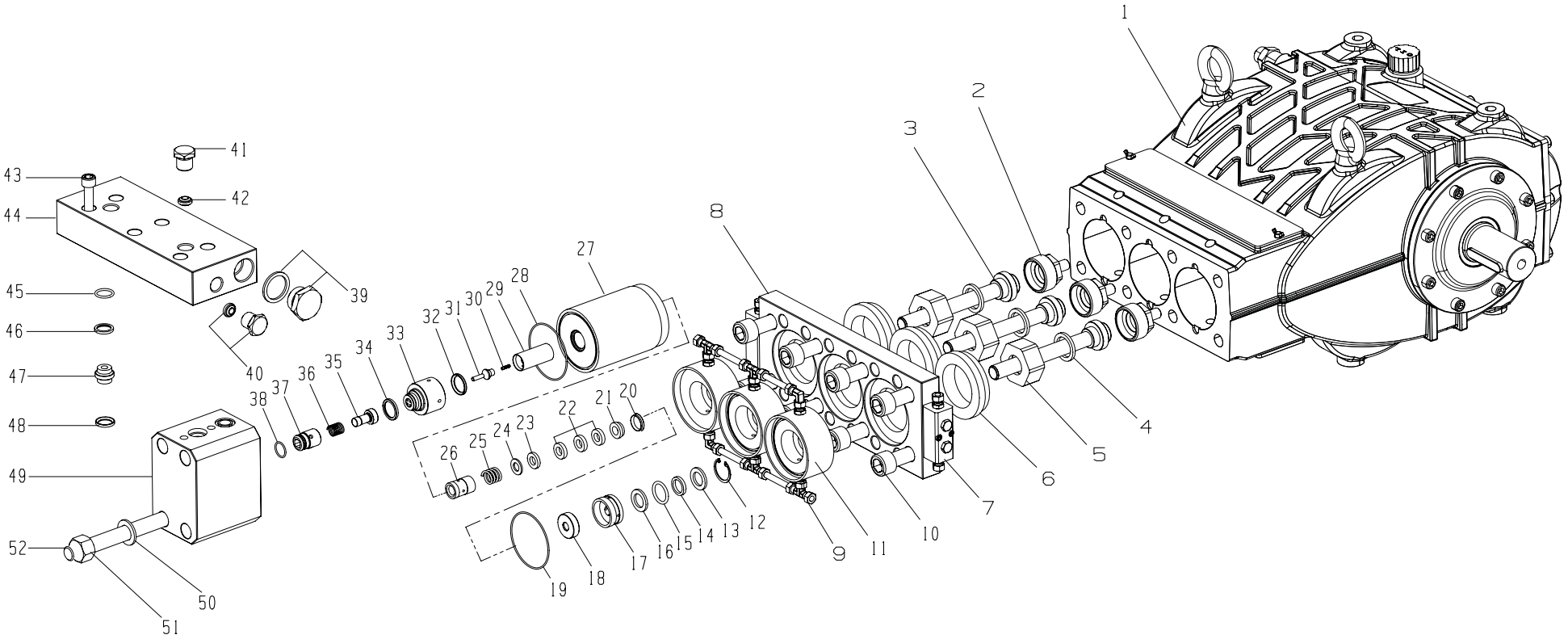
FEATURES

- 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.

DIMENSIONS(mm)



EXPLODED VIEW



COMPONENTS

ITEM	Name	QTY
1	Power End	1
2	Plunger connecto	3
3	Plunger	3
4	PU Gasket	3
5	Plunger Connecting Nut	3
6	Locating Ring	3
7	Diverter	2
8	Back Plate	1
9	Cooling Pipe Fitting	6
10	Back Plate Mounting Screw	8
11	End Cover	3
12	Retaining Ring for Bore	3
13	Low-pressure Seal Retainer 1	3
14	Low-pressure Water Seal	3
15	Low-pressure Water Seal O-ring	3
16	Low-pressure Water Retainer 2	3
17	Packing Seat	3
18	Packing Spacer	3

ITEM	Name	QTY
19	End Cover O-ring	3
20	Packing Support Ring	3
21	Packing	3
22	Positioning Seal	9
23	Copper Washer	3
24	Spring Washer	3
25	Spring	3
26	Spring Seat	3
27	Fluid Cylinder	3
28	Cylinder O-ring	3
29	Suction Valve Seat	3
30	Suction Valve Spring	3
31	Suction Valve Disc	3
32	Suction Side PEEK Seal Ring	3
33	Valve Body	3
34	Discharge Side PEEK Seal Ring	3
35	Discharge Valve Disc	3

ITEM	Name	QTY
1	Discharge Valve Spring	3
2	Discharge Valve Seat	3
3	Discharge Valve O-ring	3
4	Inlet Plug	1
5	Discharge Plug	1
6	Manifold Outlet Plug	2
7	Plug Gasket	2
8	Cover Plate Screw	6
9	Cover Plate	1
10	Inlet Cover O-ring	3
11	Cover Plate Outlet PEEK Seal Ring	3
12	Manifold Guide	3
13	Cover Plate Outlet PEEK Seal Ring 1	3
9	Stainless Steel Pump Head	3
10	Screw Washer	12
14	Nut	12
15	Stud	12

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

用水创造价值

Create Value with Water Power

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