SSPQ-P Series Dual-Line Distributor (40MPa)

I. OVERVIEW

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SSPQ-P Series (formerly ZV-B Series) dual-line distributors are suitable for use in dry oil or thin oil dual-line centralized lubrication systems with a nominal pressure of 40MPa as a quantitative oil supply device. A dual-line distributor that alternately presses grease through two oil supply pipes to achieve quantitative lubrication of each lubrication point. The distributor has three types: with oiling screw, with motion indicator adjustment device, and with stroke adjustment device.

1). For a distributor with an oiling screw, the oil supply cannot be adjusted. The oil supply can only be changed by selecting an oiling screw with a different oiling index.

2). For a distributor with a motion indicator adjustment device, the oil supply can be adjusted within the range of zero to the rated oil supply, and the normal operation of the distributor can be judged by observing the motion indicator adjustment device.

3). For a distributor with a travel switch adjustment device, the oil supply can be adjusted within the range of zero to rated oil supply, and the oil supply condition of the lubrication point can be controlled by sending a signal through the travel switch. Each distributor can only have one limit switch adjustment device.

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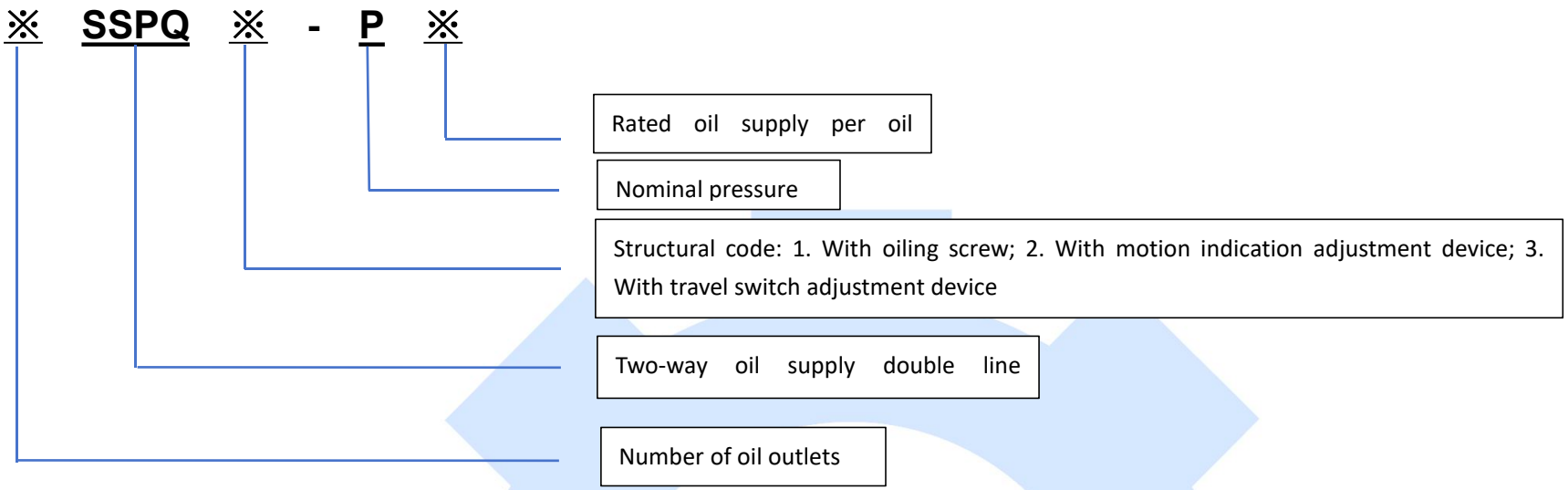
2. PARAMETER

Model	Pressure (Mpa)	Starting Pressure (Mpa)	Control Piston Working Oil Volume (ml)	Rated oil supply (ml/cycle)	Number of fuel outlets	Wearing device
※SSPQ※-P0.5	40	≤1	0.3	0.5	1～8	Oil supply screw, motion indication adjustment device
※SSPQ※-P1.5				1.5		Oil supply screw, motion indication adjustment device, travel switch adjustment device
※SSPQ※-P3.0				3.0	1～4	Movement indication adjustment device

When the number of oil supply ports is odd, the oil supply of one of the oil supply ports is twice the rated oil supply.

The medium used is grease (NLGI0#~3#) with a cone penetration of not less than 220 (25℃, 150g) 1/10mm or lubricating oil with a viscosity grade greater than N68, and the working environment temperature is -20℃~80℃.

3. MODEL DESCRIPTION



4. WORKING PRINCIPLE

The piston holes of the double-line distributor connected to each two lubrication points are respectively provided with a control piston and a working piston. The two oil inlets are respectively connected to two oil supply pipes 3a and 3b. When one of the oil supply pipes is pressurized, the other is unloaded.

5. INSTRUCTION FOR USE

1). When used in dusty, humid, or harsh environments, a protective cover should be provided.

2). The parallel installation method is preferred for the dual-line distributor in the system. The oil supply pipe and the distributor can be connected on the left or right side. Secondly, the serial installation method is adopted. The two G3/8 screw plugs that close the pipeline on the oil inlet on one side must be removed. The maximum number of serial connections is not allowed to exceed two. If necessary, parallel and serial combinations can be installed.

3). For the distributor with oiling screw (SSPQ1), the oil supply cannot be adjusted. The oil supply can only be changed by selecting oiling screws with different oiling indexes.

4). For the distributor with motion indicator adjustment device (SSPQ2 type), the oil supply should be adjusted by rotating the adjustment screw of the limiter when the indicator rod is retracted, and adjusted within the maximum and minimum oil supply range according to the actual needs of the lubrication point.

5). For the distributor with travel switch adjustment device (SSPQ3), the oil supply should also be adjusted when the indicator rod is retracted, and adjusted as needed.

6). When the number of oil supply ports becomes an odd number, remove the screws between the corresponding oil

outlets, and seal the unused oil outlet with a G1/4 screw plug. The upper and lower oil outlets are connected, and the piston is supplied with oil from this outlet for both positive and negative movements.

7). For easy disassembly, the pipe from the distributor to the lubrication point is best bent at 90° or a ferrule joint is used.

8). The surface on which the distributor is installed should be smooth and flat, and the mounting bolts should not be tightened too much to avoid deformation during use and affect normal operation.

9). It is recommended to use GB70-85 screws M6×50 for installation and fixation of SSPQ1 and SSPQ2 type distributors. A 30mm pad is required between the installation surfaces of SSPQ3 type distributors, and GB70-85 special screws M6×85 are used for installation and fixation.

6. COMMON FAULTS AND TROUBLESHOOTING

1). The distributor does not work.

Check whether the oil supply pipe is delivering pressure oil; whether the lubrication point is blocked, whether the oil supply pipe is flattened; whether impurities enter the distributor and cause the piston hole to be roughened, etc., and you

can find out and eliminate them.

2). Oil leakage at the indicator rod of the motion indicator adjustment device.

Remove the limiter body and replace the oil seal. It may be that the oil seal is in stock or has been used for too long or has exceeded the specified ambient temperature. Replace it after checking.