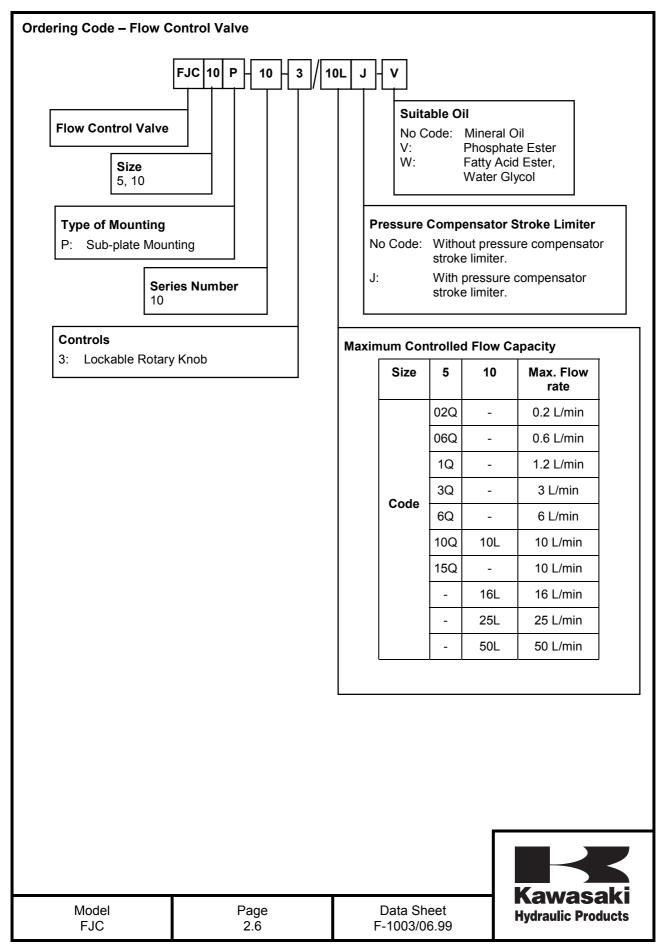
## Industrial Products

|  | up to 315 bar Two-Way C  |   | trol Valve<br>ompensated<br>Series 10 | Data Sheet<br>F-1003/06.99<br>GB |
|--|--|---|---------------------------------------|----------------------------------|
| Features   |  |   |                                       |                                  |
| $\diamond$   | Thin blade orifice for compensation.   | accurate temperature                                      |                                       |                                  |
| $\diamond$   | Stroke limiter can be at start up (optional).                                | mounted to stop jumping                                   | Tree no                               |                                  |
| $\diamond$   | Check valve (optional).  |   |                                       | KEAN                             |
| $\diamond$   | Large selection of ma<br>enable optimum cont                                 |   |                                       | 6                                |
| $\diamond$   | Rotary knob with sca   | le.   |                                       | A States John                    |
| $\diamond$   | Rotary adjusting knot<br>accidental adjustmen                                |   | 1)                                    | B tran the of                    |
| $\diamond$   | Porting pattern to din 6263 and CETOP-RF                                     |   |                                       |                                  |
| Functional Description (FJC5P-10-3-10Q-V)  |  |   |                                       |                                  |
| Type FJC Series 10 Flow Control Valves are used<br>to maintain a constant flow independent of<br>pressure and temperature.             |  |   |                                       |                                  |
| The valves primarily comprises a housing (1), a setting element (2), an orifice (3), a pressure compensator (4) and a check valve (5). |  |   | Type FJC                              |                                  |
| orif   | w from port A to B is pa<br>fice (6) which can be va<br>ting element (2).    |   |                                       |                                  |
| Wit<br>cor   | th no flow through the v   | valve, the pressure<br>I the open position by the         |                                       |                                  |
| Wh   | nen the fluid flows throu  | igh the valve, the<br>am of the throttle position         |                                       |                                  |
| (3)<br>cor   | is applied to the spring mpensator (4) and the p                             | chamber of the pressure pressure pressure at the upstream |                                       |                                  |
|  | applied to the opposite<br>e pressure compensate                             |   | 5                                     |                                  |
| cor<br>a re<br>ups<br>pos  | npensating position un<br>esult the pressure diffe<br>stream and the downstr | til the forces balance. As rential between the            |                                       |                                  |
| Flo  |  | assed through the check                                   |                                       |                                  |
|  |  |   |                                       |                                  |
|  |  |   |                                       |                                  |
|  |  |   |                                       |                                  |
|  | Model<br>FJC   | Page<br>1.6   | Data Sheet<br>F-1003/06.99            | Kawasaki<br>Hydraulic Products   |



## **Technical Data** For applications outside the following parameters, please consult Kawasaki Precision Machinery (UK) Ltd. Pressure Fluid Mineral oil, phosphate ester, fatty acid ester and water glycol. Phosphate ester is only suitable for use with FPM seals. Pressure Fluid Temperature Range -20°C to +70°C Ambient Temperature Range -30°C to +50°C Degree of Contamination Maximum permissible degree of contamination of fluid is to NAS 1638 Class 9. Kawasaki recommend a filter with a rentention rate of $\beta_{10} \ge 75$ . 2.8 to 380cSt Viscosity Range Max. Operating Pressure (port A) 210 bar (size 5) 315 bar (size 10) Flow for size 5 **q**<sub>v max</sub> l/min 0.2 0.6 1.2 3.0 6.0 10.0 15.0 valve **q**<sub>v min</sub> (at 210 bar) cm³/min 80 200 25 30 50 100 150 Pressure Stability up to ±2% ±2% ±2% ±2% ±2% ±4% ±4% ∆**p**=210 bar (**q**<sub>v max</sub>) $(\boldsymbol{q}_{v \max})$ $(\boldsymbol{q}_{v \max})$ (**q**<sub>v max</sub>) (**q**<sub>v max</sub>) $(\boldsymbol{q}_{v \max})$ $(\boldsymbol{q}_{v \max})$ Minimum Pressure 4 bar 4 bar 4 bar 4 bar 4 bar 8 bar 8 bar Differential Flow for size 10 16 25 50 $\boldsymbol{q}_{v \max} l/min$ 10 valve q<sub>v min</sub> (at 315 bar) cm<sup>3</sup>/min 150 200 200 300 Pressure Stability up to ±2% ±2% ±2% ±4% ∆**p**=315 bar $(\boldsymbol{q}_{v \max})$ $(\boldsymbol{q}_{v \max})$ (**q**<sub>v max</sub>) (**q**<sub>v max</sub>) Minimum Pressure 4 bar 4 bar 4 bar 6 bar Differential Pressure Differential $\Delta p$ for See Characteristic Curves Free Return Flow B to A Weight 1.6 kg (size 5) 5.6 kg (size 10) Kawasa Model Page Data Sheet **Hydraulic Products** FJC F-1003/06.99 3.6

