| Item No. | Valve Number (KKS) | | | | | | | | | Valve Description | Manufacturer / Country of Origin | Design Condition | | Fluid Medium | Valve Type | Nominal Valve Size | Valve Rating | Body Material | End Connection | Valve Operation | Reference P&ID | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Level 0 (Total Plant) | Level 1 (System Code) | | | Level 2 (Equipment Code) | | | Level 3 (Component Code) | | | | Press | Temp | | | | | | | | | |
| | G | $F_3$ | $F_1F_2F_3$ | $F_M$ | $A_1A_2$ | $A_M$ | $A_L$ | $B_1B_2$ | $B_M$ | | | (barg) | (°C) | (-) | (See Item 2.6 of Instrn Sht) | (DN) | (LB) | (-) | (See Item 2.10 of Instrn Sht) | (See Item 2.11 of Instrn Sht) | | |
| 2689 | 0 | 0 | GME | 41 | AA | 302 | N/A | N/A | N/A | SWRO REJECT DISCHARGE PUMP B OUTLET PI ROOT VALVE | CEPEX/CHINA | 3.0 | 30 | CONCENTRATE SEAWATER | BALL VALVE | 15 | PN10 | UPVC | FLANGED | MANUALLY BY HANDLE | TJB56-L3-OFF-C-GCA-M-PID-0015 | |
| 2690 | 0 | 0 | GME | 41 | AA | 303 | N/A | N/A | N/A | SWRO REJECT DISCHARGE PUMPS OUTLET MAIN PIPE PI ROOT VALVE | CEPEX/CHINA | 3.0 | 30 | CONCENTRATE SEAWATER | BALL VALVE | 15 | PN10 | UPVC | FLANGED | MANUALLY BY HANDLE | TJB56-L3-OFF-C-GCA-M-PID-0015 | |
| 2691 | 0 | 0 | GFB | 20 | AA | 101 | N/A | N/A | N/A | BWRO CARTRIDGE FILTER A INLET VALVE 1 | BRAY/CHINA | 3.5 | 30 | SWRO PERMEATE WATER | BUTTERFLY VALVE | 150 | PN10 | CARBON STEEL WITH POLYESTER COATING | WAFER | MANUALLY BY HANDLE | TJB56-L3-OFF-C-GCA-M-PID-0016 | |
| 2692 | 0 | 0 | GFB | 20 | AA | 201 | N/A | N/A | N/A | BWRO CARTRIDGE FILTER A INLET VALVE 2 | BRAY/CHINA | 3.5 | 30 | SWRO PERMEATE WATER | BUTTERFLY VALVE | 150 | PN10 | CARBON STEEL WITH POLYESTER COATING | WAFER | PNEUMATIC ACTUATOR | TJB56-L3-OFF-C-GCA-M-PID-0016 | |
| 2693 | 0 | 0 | GFA | 22 | AA | 201 | N/A | N/A | N/A | BWRO CARTRIDGE FILTER A FLUSHING WATER INLET VALVE | BRAY/CHINA | 3.5 | 30 | SWRO PERMEATE WATER | BUTTERFLY VALVE | 150 | PN10 | CARBON STEEL WITH POLYESTER COATING | WAFER | PNEUMATIC ACTUATOR | TJB56-L3-OFF-C-GCA-M-PID-0016 | |
| 2694 | 0 | 0 | GFB | 20 | AA | 102 | N/A | N/A | N/A | BWRO CARTRIDGE FILTER A OUTLET SAMPLE VALVE | BRAY/CHINA | 3.5 | 30 | SWRO PERMEATE WATER | BALL VALVE | 25 | PN10 | SS316 | FLANGED | MANUALLY BY HANDLE | TJB56-L3-OFF-C-GCA-M-PID-0016 | |
| 2695 | 0 | 0 | GFB | 20 | AA | 103 | N/A | N/A | N/A | BWRO CARTRIDGE FILTER A OUTLET VALVE | BRAY/CHINA | 3.5 | 30 | SWRO PERMEATE WATER | BUTTERFLY VALVE | 150 | PN10 | CARBON STEEL WITH POLYESTER COATING | WAFER | MANUALLY BY HANDLE | TJB56-L3-OFF-C-GCA-M-PID-0016 | |
| 2696 | 0 | 0 | GFB | 20 | AA | 301 | N/A | N/A | N/A | BWRO CARTRIDGE FILTER A INLET PI ROOT VALVE | BRAY/CHINA | 3.5 | 30 | SWRO PERMEATE WATER | BALL VALVE | 15 | PN10 | SS316 | BUTT WELDED | MANUALLY BY HANDLE | TJB56-L3-OFF-C-GCA-M-PID-0016 | |
| 2697 | 0 | 0 | GFB | 20 | AA | 302 | N/A | N/A | N/A | BWRO CARTRIDGE FILTER A INLET PDS ROOT VALVE | BRAY/CHINA | 3.5 | 30 | SWRO PERMEATE WATER | BALL VALVE | 15 | PN10 | SS316 | BUTT WELDED | MANUALLY BY HANDLE | TJB56-L3-OFF-C-GCA-M-PID-0016 | |
| 2698 | 0 | 0 | GFB | 20 | AA | 303 | N/A | N/A | N/A | BWRO CARTRIDGE FILTER A OUTLET PDS ROOT VALVE | BRAY/CHINA | 3.5 | 30 | SWRO PERMEATE WATER | BALL VALVE | 15 | PN10 | SS316 | BUTT WELDED | MANUALLY BY HANDLE | TJB56-L3-OFF-C-GCA-M-PID-0016 | |
| 2699 | 0 | 0 | GFB | 20 | AA | 304 | N/A | N/A | N/A | BWRO CARTRIDGE FILTER A OUTLET PI ROOT VALVE | BRAY/CHINA | 3.5 | 30 | SWRO PERMEATE WATER | BALL VALVE | 15 | PN10 | SS316 | BUTT WELDED | MANUALLY BY HANDLE | TJB56-L3-OFF-C-GCA-M-PID-0016 | |
| 2700 | 0 | 0 | GFB | 20 | AA | 801 | N/A | N/A | N/A | BWRO CARTRIDGE FILTER A DRAIN VALVE | BRAY/CHINA | 3.5 | 30 | SWRO PERMEATE WATER | BUTTERFLY VALVE | 50 | PN10 | CARBON STEEL WITH POLYESTER COATING | WAFER | MANUALLY BY HANDLE | TJB56-L3-OFF-C-GCA-M-PID-0016 | |
| 2701 | 0 | 0 | GFB | 20 | AA | 991 | N/A | N/A | N/A | BWRO CARTRIDGE FILTER A VENT VALVE | BRAY/CHINA | 3.5 | 30 | AIR | BALL VALVE | 25 | PN10 | SS316 | FLANGED | MANUALLY BY HANDLE | TJB56-L3-OFF-C-GCA-M-PID-0016 | |
| 2702 | 0 | 0 | GFA | 20 | AA | 110 | N/A | N/A | N/A | BWRO HIGH PRESSURE PUMP A OUTLET CHECK VALVE | TIANJIN JINGTONG/CHINA | 8.0 | 30 | SWRO PERMEATE WATER | CHECK VALVE | 150 | PN16 | SS316 | WAFER | - | TJB56-L3-OFF-C-GCA-M-PID-0016 | |
| 2703 | 0 | 0 | GFA | 20 | AA | 111 | N/A | N/A | N/A | BWRO HIGH PRESSURE PUMP A OUTLET VALVE | BRAY/CHINA | 8.0 | 30 | SWRO PERMEATE WATER | BUTTERFLY VALVE | 150 | PN16 | SS316L | WAFER | MANUALLY BY HANDLE | TJB56-L3-OFF-C-GCA-M-PID-0016 | |
| 2704 | 0 | 0 | GFA | 20 | AA | 310 | N/A | N/A | N/A | BWRO HIGH PRESSURE PUMP A INLET PS ROOT VALVE | BRAY/CHINA | 3.5 | 30 | SWRO PERMEATE WATER | BALL VALVE | 15 | PN10 | SS316 | BUTT WELDED | MANUALLY BY HANDLE | TJB56-L3-OFF-C-GCA-M-PID-0016 | |
| 2705 | 0 | 0 | GFA | 20 | AA | 311 | N/A | N/A | N/A | BWRO HIGH PRESSURE PUMP A OUTLET PI ROOT VALVE | BRAY/CHINA | 8.0 | 30 | SWRO PERMEATE WATER | BALL VALVE | 15 | PN16 | SS316 | BUTT WELDED | MANUALLY BY HANDLE | TJB56-L3-OFF-C-GCA-M-PID-0016 | |
| 2706 | 0 | 0 | GFA | 20 | AA | 312 | N/A | N/A | N/A | BWRO HIGH PRESSURE PUMP A OUTLET PS ROOT VALVE | BRAY/CHINA | 8.0 | 30 | SWRO PERMEATE WATER | BALL VALVE | 15 | PN16 | SS316 | BUTT WELDED | MANUALLY BY HANDLE | TJB56-L3-OFF-C-GCA-M-PID-0016 | |
| 2707 | 0 | 0 | GFF | 20 | AA | 101 | N/A | N/A | N/A | BWRO SKID A UNIT 1 CIP INLET VALVE | BRAY/CHINA | 8.0 | 30 | CHEMICAL CLEANING WATER | BUTTERFLY VALVE | 150 | PN16 | SS316L | WAFER | MANUALLY BY HANDLE | TJB56-L3-OFF-C-GCA-M-PID-0016 | |
| 2708 | 0 | 0 | GFF | 20 | AA | 102 | N/A | N/A | N/A | BWRO SKID A UNIT 2 CIP INLET VALVE | BRAY/CHINA | 8.0 | 30 | CHEMICAL CLEANING WATER | BUTTERFLY VALVE | 100 | PN16 | SS316L | WAFER | MANUALLY BY HANDLE | TJB56-L3-OFF-C-GCA-M-PID-0016 | |
| 2709 | 0 | 0 | GFF | 20 | AA | 103 | N/A | N/A | N/A | BWRO SKID A UNIT 1 CIP OUTLET VALVE | BRAY/CHINA | 8.0 | 30 | CHEMICAL CLEANING WATER | BUTTERFLY VALVE | 150 | PN16 | SS316L | WAFER | MANUALLY BY HANDLE | TJB56-L3-OFF-C-GCA-M-PID-0016 | |
| 2710 | 0 | 0 | GFF | 20 | AA | 104 | N/A | N/A | N/A | BWRO SKID A UNIT 2 CIP OUTLET VALVE | BRAY/CHINA | 8.0 | 30 | CHEMICAL CLEANING WATER | BUTTERFLY VALVE | 100 | PN16 | SS316L | WAFER | MANUALLY BY HANDLE | TJB56-L3-OFF-C-GCA-M-PID-0016 | |
| 2711 | 0 | 0 | GFF | 20 | AA | 201 | N/A | N/A | N/A | BWRO SKID A REJECT WATER OUTLET VALVE | BRAY/CHINA | 8.0 | 30 | BWRO CONCENTRATE WATER | BUTTERFLY VALVE | 80 | PN16 | SS316 | WAFER | PNEUMATIC ACTUATOR | TJB56-L3-OFF-C-GCA-M-PID-0016 | |
| 2712 | 0 | 0 | GFF | 20 | AA | 106 | N/A | N/A | N/A | BWRO SKID A REJECT WATER OUTLET VALVE | TIANJIN JINGTONG/CHINA | 8.0 | 30 | BWRO CONCENTRATE WATER | GLOBE VALVE | 65 | PN16 | SS316 | FLANGED | MANUALLY BY HANDLE | TJB56-L3-OFF-C-GCA-M-PID-0016 | |
| 2713 | 0 | 0 | GFF | 20 | AA | 802 | N/A | N/A | N/A | BWRO SKID A FLUSHING WATER DRAIN VALVE | BRAY/CHINA | 8.0 | 30 | BWRO PERMEATE WATER | BUTTERFLY VALVE | 150 | PN16 | SS316 | WAFER | PNEUMATIC ACTUATOR | TJB56-L3-OFF-C-GCA-M-PID-0016 | |
| 2714 | 0 | 0 | GFF | 20 | AA | 801 | N/A | N/A | N/A | BWRO SKID A REJECT DRAIN VALVE | BRAY/CHINA | 8.0 | 30 | BWRO CONCENTRATE WATER | BUTTERFLY VALVE | 80 | PN16 | SS316 | WAFER | PNEUMATIC ACTUATOR | TJB56-L3-OFF-C-GCA-M-PID-0016 | |
| 2715 | 0 | 0 | GFF | 20 | AA | 107 | N/A | N/A | N/A | BWRO SKID A OUTLET CHECK VALVE | TIANJIN JINGTONG/CHINA | 8.0 | 30 | BWRO PERMEATE WATER | CHECK VALVE | 125 | PN10 | SS316 | WAFER | - | TJB56-L3-OFF-C-GCA-M-PID-0016 | |
| 2716 | 0 | 0 | GFF | 20 | AA | 108 | N/A | N/A | N/A | BWRO SKID A OUTLET VALVE | BRAY/CHINA | 2.5 | 30 | BWRO PERMEATE WATER | BUTTERFLY VALVE | 125 | PN10 | CARBON STEEL WITH POLYESTER COATING | WAFER | MANUALLY BY HANDLE | TJB56-L3-OFF-C-GCA-M-PID-0016 | |
| 2717 | 0 | 0 | GFF | 20 | AA | 109 | N/A | N/A | N/A | BWRO SKID A PERMEATE WATER BACKFLOW VALVE | BRAY/CHINA | 2.5 | 30 | BWRO PERMEATE WATER | BUTTERFLY VALVE | 65 | PN10 | CARBON STEEL WITH POLYESTER COATING | WAFER | MANUALLY BY HANDLE | TJB56-L3-OFF-C-GCA-M-PID-0016 | |
| 2718 | 0 | 0 | GFF | 20 | AA | 803 | N/A | N/A | N/A | BWRO SKID A PERMEATE WATER DRAIN VALVE | BRAY/CHINA | 2.5 | 30 | BWRO PERMEATE WATER | BUTTERFLY VALVE | 100 | PN10 | CARBON STEEL WITH POLYESTER COATING | WAFER | PNEUMATIC ACTUATOR | TJB56-L3-OFF-C-GCA-M-PID-0016 | |
| 2719 | 0 | 0 | GFF | 20 | AA | 109 | N/A | N/A | N/A | BWRO SKID A OUTLET SAMPLING VALVE | BRAY/CHINA | 2.0 | 30 | BWRO PERMEATE WATER | BALL VALVE | 25 | PN10 | SS316 | FLANGED | MANUALLY BY HANDWHEEL | TJB56-L3-OFF-C-GCA-M-PID-0016 | |
| 2720 | 0 | 0 | GFF | 20 | AA | 301 | N/A | N/A | N/A | BWRO SKID A UNIT 1 INLET PIT ROOT VALVE | FITOK/CHINA | 8.0 | 30 | SWRO PERMEATE WATER | NEEDLE VALVE | 15 | PN16 | SS316 | BUTT WELDED | MANUALLY BY HANDLE | TJB56-L3-OFF-C-GCA-M-PID-0016 | |
| 2721 | 0 | 0 | GFF | 20 | AA | 302 | N/A | N/A | N/A | BWRO SKID A UNIT 2 INLET PIT ROOT VALVE | FITOK/CHINA | 8.0 | 30 | SWRO PERMEATE WATER | NEEDLE VALVE | 15 | PN16 | SS316 | BUTT WELDED | MANUALLY BY HANDLE | TJB56-L3-OFF-C-GCA-M-PID-0016 | |
| 2722 | 0 | 0 | GFF | 20 | AA | 303 | N/A | N/A | N/A | BWRO SKID A REJECT WATER OUTLET PIT ROOT VALVE | FITOK/CHINA | 8.0 | 30 | BWRO CONCENTRATE WATER | NEEDLE VALVE | 15 | PN16 | SS316 | BUTT WELDED | MANUALLY BY HANDLE | TJB56-L3-OFF-C-GCA-M-PID-0016 | |
| 2723 | 0 | 0 | GFF | 20 | AA | 304 | N/A | N/A | N/A | BWRO SKID A OUTLET PIT ROOT VALVE | FITOK/CHINA | 2.5 | 30 | BWRO PERMEATE WATER | NEEDLE VALVE | 15 | PN10 | SS316 | BUTT WELDED | MANUALLY BY HANDLE | TJB56-L3-OFF-C-GCA-M-PID-0016 | |
| 2724 | 0 | 0 | GFF | 20 | AA | 305 | N/A | N/A | N/A | BWRO SKID A OUTLET FLOWMETER ROOT VALVE 1 | FOLLOW WITH FLOW METER | 2.5 | 30 | BWRO PERMEATE WATER | NEEDLE VALVE | 15 | PN10 | SS316 | BUTT WELDED | MANUALLY BY HANDLE | TJB56-L3-OFF-C-GCA-M-PID-0016 | |
| 2725 | 0 | 0 | GFF | 20 | AA | 306 | N/A | N/A | N/A | BWRO SKID A OUTLET FLOWMETER ROOT VALVE 2 | FOLLOW WITH FLOW METER | 2.5 | 30 | BWRO PERMEATE WATER | NEEDLE VALVE | 15 | PN10 | SS316 | BUTT WELDED | MANUALLY BY HANDLE | TJB56-L3-OFF-C-GCA-M-PID-0016 | |
| 2726 | 0 | 0 | GFB | 21 | AA | 101 | N/A | N/A | N/A | BWRO CARTRIDGE FILTER B INLET VALVE 1 | BRAY/CHINA | 3.5 | 30 | SWRO PERMEATE WATER | BUTTERFLY VALVE | 150 | PN10 | CARBON STEEL WITH POLYESTER COATING | WAFER | MANUALLY BY HANDLE | TJB56-L3-OFF-C-GCA-M-PID-0017 | |
| 2727 | 0 | 0 | GFB | 21 | AA | 201 | N/A | N/A | N/A | BWRO CARTRIDGE FILTER B INLET VALVE 2 | BRAY/CHINA | 3.5 | 30 | SWRO PERMEATE WATER | BUTTERFLY VALVE | 150 | PN10 | CARBON STEEL WITH POLYESTER COATING | WAFER | PNEUMATIC ACTUATOR | TJB56-L3-OFF-C-GCA-M-PID-0017 | |
| 2728 | 0 | 0 | GFA | 22 | AA | 211 | N/A | N/A | N/A | BWRO CARTRIDGE FILTER B FLUSHING WATER INLET VALVE | BRAY/CHINA | 3.5 | 30 | SWRO PERMEATE WATER | BUTTERFLY VALVE | 150 | PN10 | CARBON STEEL WITH POLYESTER COATING | WAFER | PNEUMATIC ACTUATOR | TJB56-L3-OFF-C-GCA-M-PID-0017 | |
| 2729 | 0 | 0 | GFB | 21 | AA | 102 | N/A | N/A | N/A | BWRO CARTRIDGE FILTER B OUTLET SAMPLE VALVE | BRAY/CHINA | 3.5 | 30 | SWRO PERMEATE WATER | BALL VALVE | 25 | PN10 | SS316 | FLANGED | MANUALLY BY HANDLE | TJB56-L3-OFF-C-GCA-M-PID-0017 | |
| 2730 | 0 | 0 | GFB | 21 | AA | 103 | N/A | N/A | N/A | BWRO CARTRIDGE FILTER B OUTLET VALVE | BRAY/CHINA | 3.5 | 30 | SWRO PERMEATE WATER | BUTTERFLY VALVE | 150 | PN10 | CARBON STEEL WITH POLYESTER COATING | WAFER | MANUALLY BY HANDLE | TJB56-L3-OFF-C-GCA-M-PID-0017 | |