

記号説明 (ダイヤフラム弁) MARK EXPLANATION (DIAPHRAGM VALVE)

*** 1. 本体材料 BODY MATERIAL**

H R L : 硬質天然ゴム Hard Natural Rubber Lined
 S R L : 軟質天然ゴム Soft Natural Rubber Lined
 C R L : クロロブレンゴム Chloroprene Rubber Lined
 B R L : ブチルゴム Butyl Rubber Lined
 P F A L : PFA引 PFA Lined
 E T F E L : ETFE引 ETFE Lined
 G L : ガラス引 Glass Lined
 P E L : ポリエチレン引 Polyethylene Lined

*** 2. ダイヤフラム材料 DIAPHRAGM MATERIAL**

N R : 天然ゴム Natural Rubber N B R : ニトリルゴム Nitril Butadiene Rubber
 C R : クロロブレンゴム Chloroprene Rubber C S M : ハイパロン Hypalon
 I I R : ブチルゴム Butyl Rubber F K M : ふっ素ゴム Fluoro Rubber
 NEW PTFE : 4フッ化エチレン樹脂 E P D M : エチレンプロピレンゴム
 Polyetra Fluoro Ethylene Ethylene-propylene Rubber

*** 5. 操作 OPERATING**

H : 手動操作 MANUAL OPERATED
 A : 空気操作 PNEUMATIC OPERATED

*** 6. 動作 ACTION**

| 記号 MARK | 動作方式 ACTION TYPE |
|---------|----------------------------|
| R | 加圧閉、ばねで閉 AIR FAILURE CLOSE |
| D | 加圧閉、ばねで開 AIR FAILURE OPEN |
| N | 加圧開、加圧閉 DOUBLE ACTING |


*** 7. 付属品 ACCESSORIES**

| 記号 MARK | 数量 QTY | 区分 DIVISION |
|---------|--|-------------|
| なし NONE | 1 個付 A SINGLE | |
| W | 2 個付 (M, C及びQの場合、開閉各 1 個付) M, C and Q FOR BOTH POSITION | |
| O | M, C及びQの場合、開 1 個付 M, C and Q FOR OPEN POSITION | |
| S | M, C及びQの場合、閉 1 個付 M, C and Q FOR CLOSE POSITION | |

① 記号 MARK

P : ボジショナ POSITIONER Z : エアコンビネーション AIR COMBINATION
 M : リミット又は近接スイッチ LIMIT SWITCH C : スピードコントローラ SPEED CONTROLLER
 E : 電磁弁 SOLENOID VALVE Q : 急速排気弁 QUICK EXHAUST VALVE
 F : フィルタ FILTER B : バイパス弁 BY-PASS VALVE
 R : 減圧弁 REGULATOR A : 空気作動弁 AIR OPERATED VALVE
 V : フィルタ付減圧弁 FILTER REGULATOR S : サイレンサ SILENCER
 K : ルブリケータ LUBRICATOR L : ロックアップバルブ LOCKUP VALVE
 G : 圧力計 PRESSURE GAUGE J : 手動切替弁 ROTARY HAND VALVE


(京浜) 図面管理室 2019/08/16 電子承認システム適用

| MFG.SERIAL NO. | | REV | INSTRUMENT SHEET | | | | | | | | | | | Page: 1/2 | | | | | | |
|----------------|--------------|---|------------------|------------------------------|----------------------|----------|-------------------|------------------|--------|--------------|---------------|----------|----------------------------|---|-------------|---|---|---|---|--|
| D 411247-0847 | | 2 | VALVE CODE NO. | | | DN (A) | Q'TY | END CONNECTION | | OP. *5 | FLUID | | TEMPERATURE (°C) | OUTLINE & SECTION SHEET NO. | ACCESSORIES | | | | | |
| REV No. | TAG NO. | VALVE NAME | BODY MATERIAL *1 | DIAPHRAGM & SEAT MATERIAL *2 | DISK & BALL MATERIAL | POSITION | ACTUATOR CODE NO. | OPERATING PRESS. | AC. *6 | INLET PRESS. | OUTLET PRESS. | ΔP (bar) | Nameplate Figure SHEET NO. |  *7 MARK & QTY SHEET NO. | | | | | | |
| 0010 | **PAB15AA110 | CONDENSER A OUTLET DRAIN VALVE TO RESIDUAL CHLORINE ANALYZER | 430(04)NB-CR | | | 050 | 1 | ANSI CL150 FF | H | | SEA WATER | 50 | 1 | - | - | - | - | - | - | |
| | | | FCD-S/HRL | CR | | | | | | | | | 14 | 2.4 | - | - | - | - | - | |
| 0010 | **PAB16AA110 | CONDENSER B OUTLET DRAIN VALVE TO RESIDUAL CHLORINE ANALYZER | 430(04)NB-CR | | | 050 | 1 | ANSI CL150 FF | H | | SEA WATER | 50 | 1 | - | - | - | - | - | - | |
| | | | FCD-S/HRL | CR | | | | | | | | | 14 | 2.4 | - | - | - | - | - | |
| 0010 | **PCB10AA905 | AUXILIARY COOLING WATER PUMP COMMON INLET VENT VALVE | 430(04)NB-CR | | | 050 | 1 | ANSI CL150 FF | H | | SEA WATER | 40 | 1 | - | - | - | - | - | - | |
| | | | FCD-S/HRL | CR | | | | | | | | | 14 | 2.4 | - | - | - | - | - | |
| 0010 | **PCB11AA110 | AUXILIARY COOLING WATER PUMP A INLET FLUSHING VALVE | 430(04)NB-CR | | | 050 | 1 | ANSI CL150 FF | H | | SEA WATER | 40 | 1 | - | - | - | - | - | - | |
| | | | FCD-S/HRL | CR | | | | | | | | | 14 | 2.4 | - | - | - | - | - | |
| 0010 | **PCB12AA110 | AUXILIARY COOLING WATER PUMP B INLET FLUSHING VALVE | 430(04)NB-CR | | | 050 | 1 | ANSI CL150 FF | H | | SEA WATER | 40 | 1 | - | - | - | - | - | - | |
| | | | FCD-S/HRL | CR | | | | | | | | | 14 | 2.4 | - | - | - | - | - | |
| 0010 | **PCB20AA905 | AUXILIARY COOLING WATER PUMP A OUTLET VENT VALVE | 430(04)NB-CR | | | 050 | 1 | ANSI CL150 FF | H | | SEA WATER | 40 | 1 | - | - | - | - | - | - | |
| | | | FCD-S/HRL | CR | | | | | | | | | 14 | 2.4 | - | - | - | - | - | |
| 0010 | **PCB21AA905 | AUXILIARY COOLING WATER PUMP B OUTLET VENT VALVE | 430(04)NB-CR | | | 050 | 1 | ANSI CL150 FF | H | | SEA WATER | 40 | 1 | - | - | - | - | - | - | |
| | | | FCD-S/HRL | CR | | | | | | | | | 14 | 2.4 | - | - | - | - | - | |
| 0010 | **PCB22AA805 | AUXILIARY COOLING WATER DUPLEX FILTER COMMON OUTLET DRAIN VALVE | 430(04)NB-CR | | | 050 | 1 | ANSI CL150 FF | H | | SEA WATER | 40 | 1 | - | - | - | - | - | - | |
| | | | FCD-S/HRL | CR | | | | | | | | | 14 | 2.4 | - | - | - | - | - | |
| 0010 | **PCB23AA804 | CCCW HEAT EXCHANGER A INLET DRAIN VALVE 2 | 430(04)NB-CR | | | 050 | 1 | ANSI CL150 FF | H | | SEA WATER | 40 | 1 | - | - | - | - | - | - | |
| | | | FCD-S/HRL | CR | | | | | | | | | 14 | 2.4 | - | - | - | - | - | |
| 0010 | **PCB23AA805 | CCCW HEAT EXCHANGER A INLET DRAIN VALVE 1 | 430(04)NB-CR | | | 050 | 1 | ANSI CL150 FF | H | | SEA WATER | 40 | 1 | - | - | - | - | - | - | |
| | | | FCD-S/HRL | CR | | | | | | | | | 14 | 2.4 | - | - | - | - | - | |
| 0010 | **PCB24AA804 | CCCW HEAT EXCHANGER B INLET DRAIN VALVE 2 | 430(04)NB-CR | | | 050 | 1 | ANSI CL150 FF | H | | SEA WATER | 40 | 1 | - | - | - | - | - | - | |
| | | | FCD-S/HRL | CR | | | | | | | | | 14 | 2.4 | - | - | - | - | - | |
| 0010 | **PCB24AA805 | CCCW HEAT EXCHANGER B INLET DRAIN VALVE 1 | 430(04)NB-CR | | | 050 | 1 | ANSI CL150 FF | H | | SEA WATER | 40 | 1 | - | - | - | - | - | - | |
| | | | FCD-S/HRL | CR | | | | | | | | | 14 | 2.4 | - | - | - | - | - | |
| 0010 | **PCB25AA804 | CONDENSER VACUUM PUMP SEAL WATER COOLER A INLET DRAIN VALVE 2 | 430(04)NB-CR | | | 050 | 1 | ANSI CL150 FF | H | | SEA WATER | 40 | 1 | - | - | - | - | - | - | |
| | | | FCD-S/HRL | CR | | | | | | | | | 14 | 2.4 | - | - | - | - | - | |
| 0010 | **PCB25AA805 | CONDENSER VACUUM PUMP SEAL WATER COOLER A INLET DRAIN VALVE 1 | 430(04)NB-CR | | | 050 | 1 | ANSI CL150 FF | H | | SEA WATER | 40 | 1 | - | - | - | - | - | - | |
| | | | FCD-S/HRL | CR | | | | | | | | | 14 | 2.4 | - | - | - | - | - | |
| 0010 | **PCB25AA905 | CONDENSER VACUUM PUMP SEAL WATER COOLER COMMON INLET VENT VALVE | 430(04)NB-CR | | | 050 | 1 | ANSI CL150 FF | H | | SEA WATER | 40 | 1 | - | - | - | - | - | - | |
| | | | FCD-S/HRL | CR | | | | | | | | | 14 | 2.4 | - | - | - | - | - | |

DDK108715-b 5/11

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|----------------|-----|
| MFG.SERIAL NO. | REV |
| D 411247-0847 | 2 |

INSTRUMENT SHEET

| REV No. | TAG NO. | VALVE NAME | VALVE CODE NO. | | | DN (A) | Q'TY | END CONNECTION | | OP. *5 | FLUID | | TEMPERATURE (°C) | OUTLINE & SECTION SHEET NO. | ACCESSORIES | | | | | |
|---------|--------------|--|------------------|------------------------------|----------------------|--------|------|----------------|-------------------|--------|------------------|--------|------------------|-----------------------------|--------------|---------------|----------|----------------------------|---|-----|
| | | | BODY MATERIAL *1 | DIAPHRAGM & SEAT MATERIAL *2 | DISK & BALL MATERIAL | | | POSITION | ACTUATOR CODE NO. | | OPERATING PRESS. | AC. *6 | | | INLET PRESS. | OUTLET PRESS. | ΔP (bar) | Nameplate Figure SHEET NO. |  *7 MARK & QTY SHEET NO. | |
| 0010 | **PCB26AA804 | CONDENSER VACUUM PUMP SEAL WATER COOLER B INLET DRAIN VALVE 2 | 430(04)NB-CR | | | 050 | 1 | ANSI CL150 FF | H | | SEA WATER | | 40 | 1 | - | | | | | |
| | | | FCD-S/HRL | CR | | | | | | | | | | | | | | | 14 | 2,4 |
| 0010 | **PCB26AA805 | CONDENSER VACUUM PUMP SEAL WATER COOLER B INLET DRAIN VALVE 1 | 430(04)NB-CR | | | 050 | 1 | ANSI CL150 FF | H | | SEA WATER | | 40 | 1 | - | | | | | |
| | | | FCD-S/HRL | CR | | | | | | | | | | | | | | | 14 | 2,4 |
| 0010 | **PCB30AA905 | CCCW HEAT EXCHANGER A OUTLET VENT VALVE | 430(04)NB-CR | | | 050 | 1 | ANSI CL150 FF | H | | SEA WATER | | 50 | 1 | - | | | | | |
| | | | FCD-S/HRL | CR | | | | | | | | | | | | | | | 14 | 2,4 |
| 0010 | **PCB31AA905 | CCCW HEAT EXCHANGER B OUTLET VENT VALVE | 430(04)NB-CR | | | 050 | 1 | ANSI CL150 FF | H | | SEA WATER | | 50 | 1 | - | | | | | |
| | | | FCD-S/HRL | CR | | | | | | | | | | | | | | | 14 | 2,4 |
| 0010 | **PCB35AA904 | CONDENSER VACUUM PUMP SEAL WATER COOLER A OUTLET VENT VALVE 2 | 430(04)NB-CR | | | 050 | 1 | ANSI CL150 FF | H | | SEA WATER | | 50 | 1 | - | | | | | |
| | | | FCD-S/HRL | CR | | | | | | | | | | | | | | | 14 | 2,4 |
| 0010 | **PCB35AA905 | CONDENSER VACUUM PUMP SEAL WATER COOLER A OUTLET VENT VALVE 1 | 430(04)NB-CR | | | 050 | 1 | ANSI CL150 FF | H | | SEA WATER | | 50 | 1 | - | | | | | |
| | | | FCD-S/HRL | CR | | | | | | | | | | | | | | | 14 | 2,4 |
| 0010 | **PCB36AA904 | CONDENSER VACUUM PUMP SEAL WATER COOLER B OUTLET VENT VALVE 2 | 430(04)NB-CR | | | 050 | 1 | ANSI CL150 FF | H | | SEA WATER | | 50 | 1 | - | | | | | |
| | | | FCD-S/HRL | CR | | | | | | | | | | | | | | | 14 | 2,4 |
| 0010 | **PCB36AA905 | CONDENSER VACUUM PUMP SEAL WATER COOLER B OUTLET VENT VALVE 1 | 430(04)NB-CR | | | 050 | 1 | ANSI CL150 FF | H | | SEA WATER | | 50 | 1 | - | | | | | |
| | | | FCD-S/HRL | CR | | | | | | | | | | | | | | | 14 | 2,4 |
| 0010 | **PCB37AA905 | CONDENSER VACUUM PUMP SEAL WATER COOLER COMMON OUTLET VENT VALVE | 430(04)NB-CR | | | 050 | 1 | ANSI CL150 FF | H | | SEA WATER | | 50 | 1 | - | | | | | |
| | | | FCD-S/HRL | CR | | | | | | | | | | | | | | | 14 | 2,4 |
| 0020 | **PAB10AA805 | CONDENSER A INLET DRAIN VALVE | 430(04)NB-CR | | | 100 | 1 | ANSI CL150 FF | H | | SEA WATER | | 40 | 1 | - | | | | | |
| | | | FCD-S/HRL | CR | | | | | | | | | | | | | | | 14 | 3,4 |
| 0020 | **PAB11AA805 | CONDENSER B INLET DRAIN VALVE | 430(04)NB-CR | | | 100 | 1 | ANSI CL150 FF | H | | SEA WATER | | 40 | 1 | - | | | | | |
| | | | FCD-S/HRL | CR | | | | | | | | | | | | | | | 14 | 3,4 |
| 0020 | **PAB15AA805 | CONDENSER A OUTLET DRAIN VALVE | 430(04)NB-CR | | | 100 | 1 | ANSI CL150 FF | H | | SEA WATER | | 50 | 1 | - | | | | | |
| | | | FCD-S/HRL | CR | | | | | | | | | | | | | | | 14 | 3,4 |
| 0020 | **PAB16AA805 | CONDENSER B OUTLET DRAIN VALVE | 430(04)NB-CR | | | 100 | 1 | ANSI CL150 FF | H | | SEA WATER | | 50 | 1 | - | | | | | |
| | | | FCD-S/HRL | CR | | | | | | | | | | | | | | | 14 | 3,4 |

** = 50 : XIT05 、 60 : XIT06

Painting Spec

| | Description | color | Thickness(μm) |
|--------------|-------------|----------------|---------------|
| Pereparation | | SSPC-SP No. 10 | |
| Primer | SD ZINC 500 | Gray | 80 |
| intermediate | ESCO NB | Gray | 150 |

TOTAL:230

| | | | | | | |
|--|--|--|--|--|--|----------------------|
| | | | | | | SO.No. D 411247-0847 |
| | | | | | | 001/002 |

| DN | d | L | W | H | APPROX. MASS (kg) | Q' TY |
|-----|-----|-----|-----|-----|-------------------|-------|
| 15 | 15 | 107 | 63 | 115 | 2.0 | |
| 20 | 19 | 123 | 63 | 125 | 2.3 | |
| 25 | 25 | 132 | 80 | 129 | 3.5 | |
| 40 | 38 | 165 | 100 | 155 | 5.4 | |
| 50 | 51 | 197 | 125 | 172 | 7.2 | |
| 65 | 64 | 222 | 125 | 209 | 12.5 | |
| 80 | 76 | 260 | 160 | 235 | 18 | |
| 100 | 102 | 313 | 224 | 297 | 28 | |

| DN | JIS 10K FF | | | | ANSI CL150 FF | | | | t | T |
|-----|------------|-----|---|----|---------------|-------|---|----|----|---|
| | D | C | n | h | D | C | n | h | | |
| 15 | 95 | 70 | 4 | 15 | 89 | 60.3 | 4 | 16 | 13 | 3 |
| 20 | 100 | 75 | 4 | 15 | 98 | 69.9 | 4 | 16 | 13 | 3 |
| 25 | 125 | 90 | 4 | 19 | 108 | 79.4 | 4 | 16 | 13 | 3 |
| 40 | 140 | 105 | 4 | 19 | 127 | 98.4 | 4 | 16 | 16 | 3 |
| 50 | 155 | 120 | 4 | 19 | 152 | 120.6 | 4 | 20 | 19 | 3 |
| 65 | 175 | 140 | 4 | 19 | 178 | 139.7 | 4 | 20 | 19 | 3 |
| 80 | 185 | 150 | 8 | 19 | 191 | 152.4 | 4 | 20 | 19 | 3 |
| 100 | 210 | 175 | 8 | 19 | 229 | 190.5 | 8 | 20 | 22 | 4 |

備考：フランジ厚さtは英国標準規格（D級）による。
NOTE: THICKNESS OF FLANGE CONFORM TO BS10 TABLE D

| NO. | PART NAME | MATERIAL | Q' TY | REMARKS | |
|-----|-----------|---------------|-----------------|---------|---|
| 19 | スラスト座金 | THRUST WASHER | POM | 1 | ポリアセチール POLYACETAL |
| 10 | 止メピン | PIN | S20CK | 1 | |
| 9 | ハンドル車 | HANDWHEEL | FCD450 ADC12 | 1 | DN80~100 DN15~65 |
| 7 | スピンドル | SPINDLE | SUS403 | 1 | |
| 6 | コンプレッサ | COMPRESSOR | ADC12 | 1 | |
| 5 | ボルト、ナット | BOLT&NUT | SWCH | 4~8 | |
| 4A | ステムブッシュ | STEM BUSH | C3604 | 1 | DN15~50 |
| 4 | ボンネット | BONNET | FCD450 ADC12 | 1 | DN65~100 DN15~50 |
| 2 | ダイヤフラム | DIAPHRAGM | * | 1 | |
| 1 | 本体 | BODY | FCD-S +HRL | 1 | 硬質天然ゴム引 HARD NATURAL RUBBER LINED |

| | | | |
|-----------------------------|-------------|---------------------------------|--|
| ACTION | | TITLE 手動操作式ダイヤフラム弁 | |
| APPROVED <i>[Signature]</i> | | MANUAL OPERATED DIAPHRAGM VALVE | |
| CHECKED <i>[Signature]</i> | CODE NO. | 430(04)NB-* -15/100 | |
| DRAWN A. NAGANO | DRAWING NO. | FB0209-519A | |
| DATE 18.10.24 | REV. | 0 | |

NDV NIPPON DAIYA VALVE CO., LTD.
TOKYO JAPAN

SHEET No. 1

DDKM08715-b 7/11