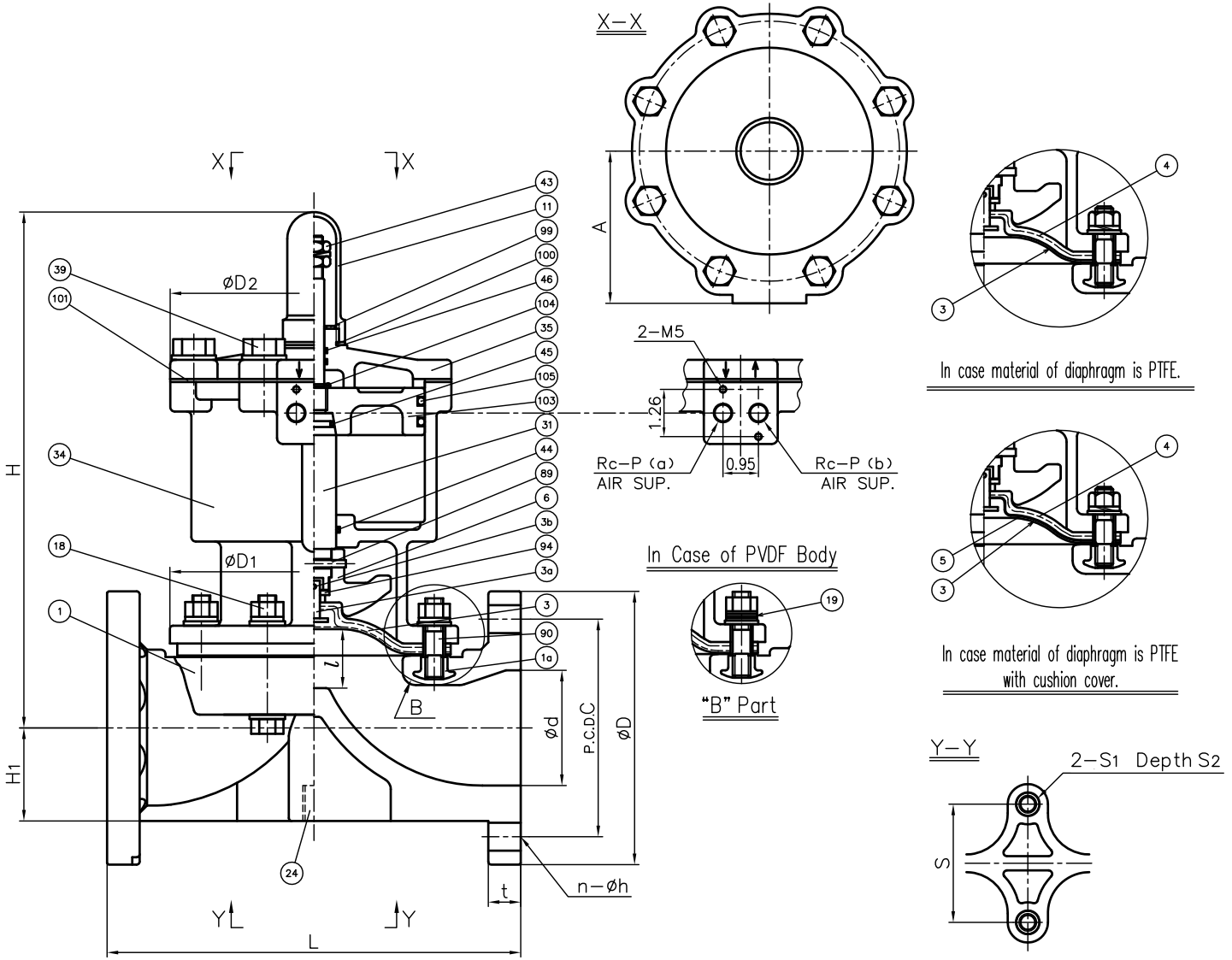
## DIMENSIONS TABLE

UNIT : inch

| NOMINAL SIZE | | d | ANSI Class 150 D | C | n | h | D1 | D2 | A | l (LIFT) | L GRINNEL STANDERD | L AV STANDERD | t PVC C-PVC | t PP PVDF | H | H1 | S | S1 | S2 | P |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2½" | 65mm | 2.64 | 7.00 | 5.50 | 4 | 0.75 | 6.73 | 8.19 | 4.06 | 1.34 | – | 9.84 | 0.87 | 0.91 | 12.72 | 2.40 | 3.35 | M8 | 0.59 | ¼ |
| 3 | 80 | 3.07 | 7.50 | 6.00 | 4 | 0.75 | 7.68 | 8.19 | 4.06 | 1.65 | 10.37 | 11.02 | 0.87 | 0.91 | 13.94 | 2.48 | 3.94 | M12 | 0.87 | ¼ |
| 4 | 100 | 3.94 | 9.00 | 7.50 | 8 | 0.75 | 9.25 | 9.84 | 4.72 | 1.97 | 12.93 | 13.39 | 0.87 | 0.94 | 16.42 | 3.07 | 4.72 | M12 | 0.87 | ¼ |

NOTE.

1. Operation of permission pressure: 0.4~0.6MPa G
   Valve open : Port (a) Exhaust
   Port (b) Supply
   Valve shut : Port (a) Supply
   Port (b) Exhaust
2. Diaphragms except EPDM and PTFE are available in FKM, VIFLON-C (FKM-C), VIFLON-F (FKM-F), CSM and NBR when required.
3. The shape and appearance of assembly differ a little with nominal size compared to this drawing.







In case material of diaphragm is PTFE.




In case material of diaphragm is PTFE with cushion cover.




| No. | DESCRIPTION | QTY. | MATERIAL | REMARKS |
|---|---|---|---|---|
| 105 | O-RING (H) | 2 | NBR | |
| 104 | STEM PIN | 1 | SPRING STEEL (SUP) | |
| 103 | PISTON | 1 | CAST ALUMINIUM ALLOY (AC5A) | |
| 101 | SHEET GASKET (B) | 1 | NBR | |
| 100 | SHEET GASKET (A) | 1 | EPDM | |
| 99 | VALVE SHEET | 1 | STAINLESS STEEL (SUS304) | |
| 94 | METAL OF COMPRESSOR | 1 | STAINLESS STEEL (SUS304) | |
| 90 | STUD BOLT・NUT | 4Sets | STAINLESS STEEL (SUS304) | |
| 89 | COMPRESSOR PIN | 1 | STAINLESS STEEL (SUS304) | |
| 46 | O-RING (F) | 2 | NBR | |
| 45 | O-RING (E) | 1 | NBR | |
| 44 | O-RING (D) | 1 | NBR | |
| 43 | STOPPER | 1 | STAINLESS STEEL (SUS304) | |
| 39 | BOLT (A) | – | STAINLESS STEEL (SUS304) | |
| 35 | CYLINDER BONNET | 1 | CAST ALUMINIUM ALLOY (AC4C) | Epoxy Coat |
| 34 | CYLINDER BODY | 1 | CAST ALUMINIUM ALLOY (AC4C) | Epoxy Coat |
| 31 | STEM (A) | 1 | STAINLESS STEEL (SUS304) | |
| 24 | ENSAT FOR BODY | 2 | STAINLESS STEEL (SUS303) | |
| 19 | CONICAL SPRING WASHER (A) | – | STAINLESS STEEL (SUS304) | Used for PVDF Body |
| 18 | BOLT・NUT (A) | – | STAINLESS STEEL (SUS304) | |
| 11 | GAUGE COVER | 1 | PC | |
| 6 | COMPRESSOR | 1 | PVDF | |
| 5 | CUSHION COVER | 1 | □Nothing<br>□PVDF | Used for PTFE Diaphragm |
| 4 | CUSHION | 1 | EPDM | Used for PTFE Diaphragm |
| 3b | DIAPHRAGM PIN | 1 | STAINLESS STEEL (SUS304) | |
| 3a | INSERTED METAL OF DIAPHRAGM | 1 | STAINLESS STEEL (SUS304) | |
| 3 | DIAPHRAGM | 1 | □EPDM<br>□PTFE<br>□Others<br>( ) | |
| 1a | INSERTED NUT | 4 | COPPER ALLOY (C3604) | Used for PVC,C-PVC,PP Body |
| | | | STAINLESS STEEL (SUS304) | Used for PVDF Body |
| 1 | BODY | 1 | □PVC<br>□C-PVC<br>□PP<br>□PVDF | |

| | | | |
|---|---|---|---|
| ITEM | DIAPHRAGM VALVE (TYPE 14) PNEUMATIC ACTUATED MODEL TYPE AV ASSY<br>DOUBLE ACTING<br>ANSI Class 150 : FLANGED END<br>2½" (65mm) ~4" (100mm) | | |
| DRAWN | E.Emmei | DATE | SCALE |
| | | MAR.1.2023 | ~ |
| CHECKED | H.Kawano | DRAWING No. | |
| APPROVED | K.Koushou | D1-AA203AE | △ |
| SPECIAL ORDER No. | | ASAHI YUKIZAI CORPORATION | |