

# Pneumatically actuated 3-way ball valves, single / double acting VP3V S4-PPH



- ND 10 to ND 50
- In-line pattern
- Pneumatic actuator
- Single or double acting, Position index
- Status NC or NO

## APPLICATIONS

Pneumatically actuated 3-way ball valves are useful for redirecting or to stop the flow of fluids in plants. These models in plastics are designed for aggressive liquids. The options permit automatic operations.

## TECHNICAL FEATURES

### Valve materials

|                           |                                                                |
|---------------------------|----------------------------------------------------------------|
| Body:                     | PPH                                                            |
| Seals:                    | EPDM or FPM                                                    |
| Ball:                     | PPH                                                            |
| Ball seating joints:      | PTFE                                                           |
| Ball shapes:              | L shape or T shape                                             |
| Process connections:      | Unions ( <i>solvent sockets</i> )                              |
| Pressure:                 | 10 bar as a maximum up to 20°C, <i>see the diagram P vs. T</i> |
| <b>Pneumatic actuator</b> | Single ( <i>NO or NC</i> ) or double acting                    |
| Control pressure:         | 6 bar as a maximum                                             |
|                           | Connections: 1/4" G                                            |

|          |                                                                |
|----------|----------------------------------------------------------------|
| OPTIONS: | - Limit switch box                                             |
|          | - Pilot valve: 3/2-way solenoid valve ( <i>single effect</i> ) |
|          | - Pilot valve: 5/2-way solenoid valve ( <i>double effect</i> ) |

## CODE NUMBERS AND REFERENCES

| Single effect / NC |    |                     |                    |                     |                    |
|--------------------|----|---------------------|--------------------|---------------------|--------------------|
| d                  | ND | L shape / EPDM seal | L shape / FPM seal | T shape / EPDM seal | T shape / FPM seal |
| 16                 | 10 | 913 361             | 913 368            | 913 403             | 913 410            |
| 20                 | 15 | 913 362             | 913 369            | 913 404             | 913 411            |
| 25                 | 20 | 913 363             | 913 370            | 913 405             | 913 412            |
| 32                 | 25 | 913 364             | 913 371            | 913 406             | 913 413            |
| 40                 | 32 | 913 365             | 913 372            | 913 407             | 913 414            |
| 50                 | 40 | 913 366             | 913 373            | 913 408             | 913 415            |
| 63                 | 50 | 913 367             | 913 374            | 913 409             | 913 416            |
| Single effect / NO |    |                     |                    |                     |                    |
| 16                 | 10 | 913 375             | 913 382            | 913 417             | 913 424            |
| 20                 | 15 | 913 376             | 913 383            | 913 418             | 913 425            |
| 25                 | 20 | 913 377             | 913 384            | 913 419             | 913 426            |
| 32                 | 25 | 913 378             | 913 385            | 913 420             | 913 427            |
| 40                 | 32 | 913 379             | 913 386            | 913 421             | 913 428            |
| 50                 | 40 | 913 380             | 913 387            | 913 422             | 913 429            |
| 63                 | 50 | 913 381             | 913 388            | 913 423             | 913 430            |
| Double effect      |    |                     |                    |                     |                    |
| 16                 | 10 | 913 389             | 913 396            | 913 431             | 913 438            |
| 20                 | 15 | 913 390             | 913 397            | 913 432             | 913 439            |
| 25                 | 20 | 913 391             | 913 398            | 913 433             | 913 440            |
| 32                 | 25 | 913 392             | 913 399            | 913 434             | 913 441            |
| 40                 | 32 | 913 393             | 913 400            | 913 435             | 913 442            |
| 50                 | 40 | 913 394             | 913 401            | 913 436             | 913 443            |
| 63                 | 50 | 913 395             | 913 402            | 913 437             | 913 444            |

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05-10-2011

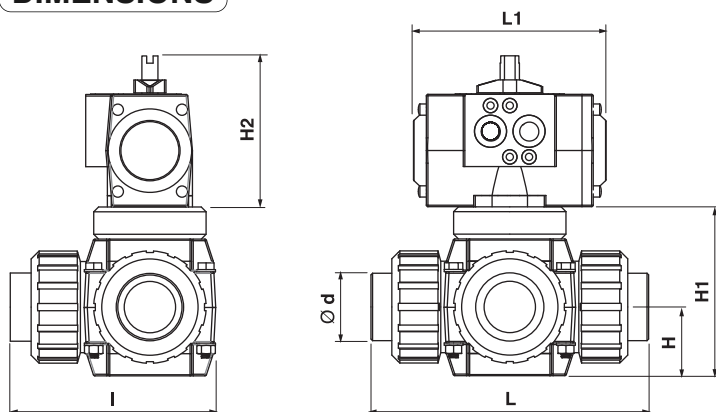
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## DIMENSIONS



| ND | 10  | 15  | 20  | 25  | 32  | 40  | 50  |
|----|-----|-----|-----|-----|-----|-----|-----|
| d  | 16  | 20  | 25  | 32  | 40  | 50  | 63  |
| H  | 33  | 33  | 40  | 43  | 51  | 56  | 64  |
| H1 | 86  | 86  | 100 | 106 | 130 | 155 | 168 |
| H2 | 91  | 91  | 91  | 91  | 91  | 91  | 112 |
| L  | 138 | 138 | 163 | 169 | 222 | 231 | 264 |
| L1 | 119 | 119 | 119 | 119 | 160 | 160 | 160 |
| I  | 95  | 95  | 116 | 119 | 161 | 166 | 192 |

## OPERATING FEATURES

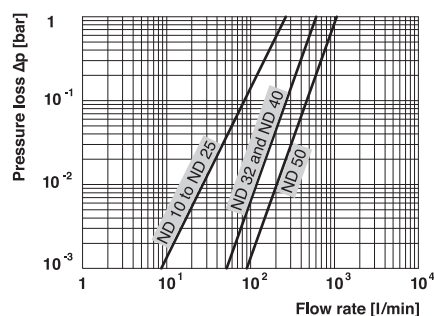
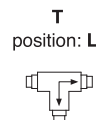
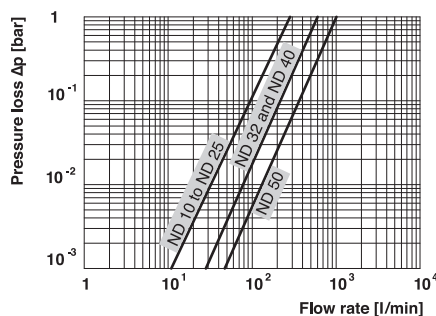
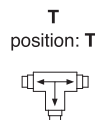
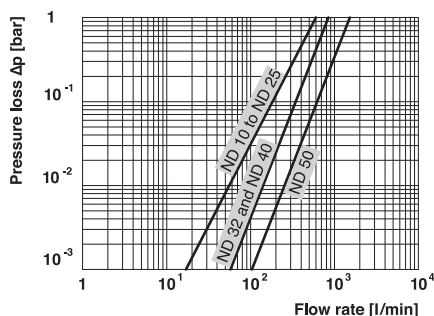
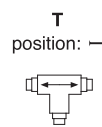
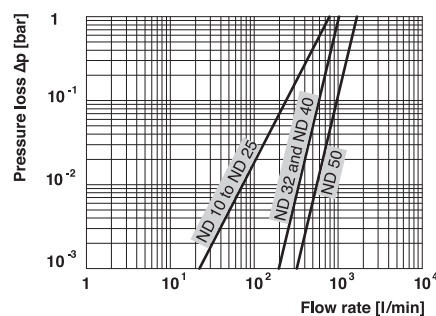
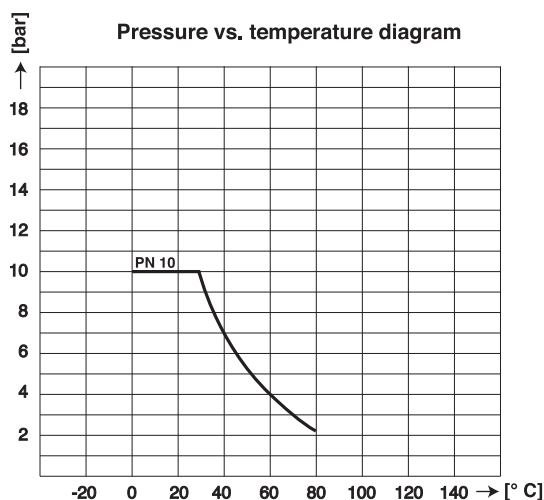


Diagram pressure loss vs flow rate  
[water at 20°C]



Pressure vs. temperature diagram



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