

# Check Valve, Model : RHD/RHZ/RHV/RHF



the right connection  
the right environment

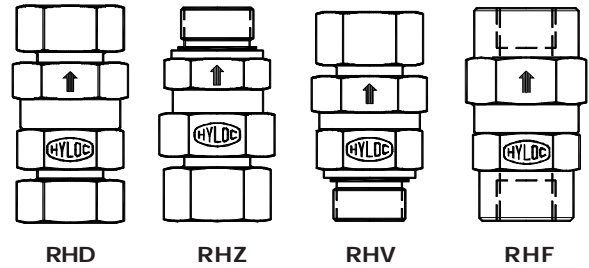
Ref. No : H04068 Release Mar 2018 (Dimensions in mm)

## Description

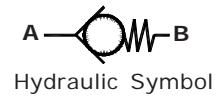
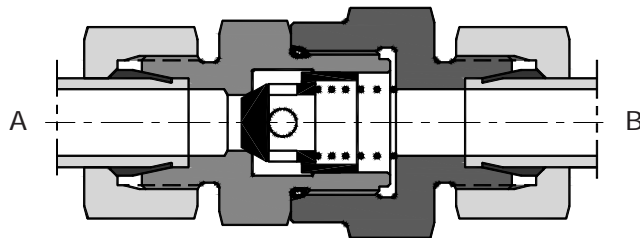
Poppet type valves.  
Allows free flow from port A to B and offer leakage free closure in opposite direction.

Four basic models : RHD, RHZ, RHV and RHF  
Seven standard sizes : NG 06, NG 08, NG 10, NG 15, NG 20, NG 25, NG 30

Four cracking pressure : 0.5, 1.5, 3 and 5 bar.



## Section



## Technical Specifications

- Construction . . . . . Poppet type
- Mounting style . . . . . In line
- Mounting position . . . . . Optional
- Cracking pressure available . . . . . 0.5, 1.5, 3, and 5 bar
- Code for cracking pressure options . . . . . Omit, B, C, and D respectively.
- Flow direction . . . . . From port `A' to port `B'.
- Operating pressure . . . . . 315 bar.
- Hydraulic medium . . . . . Mineral oil.
- Viscosity range . . . . . 10 cSt to 380 cSt.
- Fluid temperature range . . . . . -20 °C to +70 °C.
- Fluid cleanliness requirement . . . . . As per ISO 19/16 or better.
- Maximum flow handling capacity . . . . . Refer graph.

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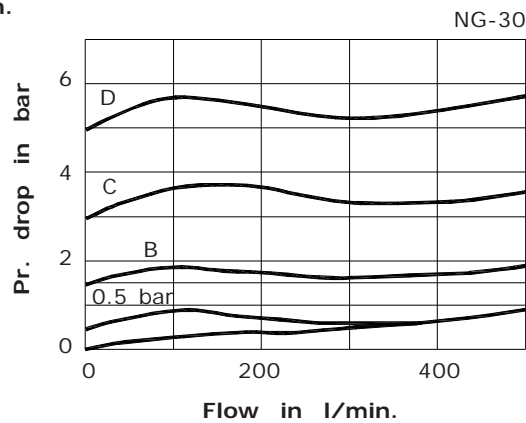
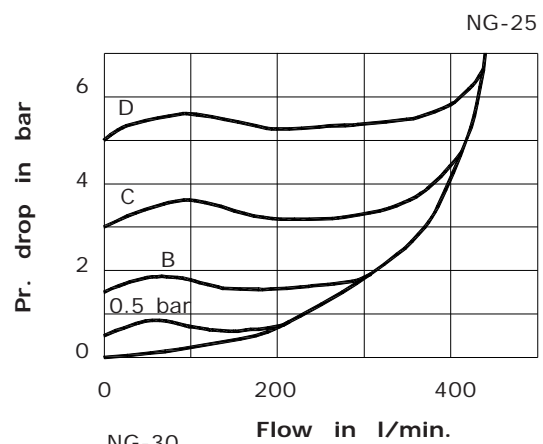
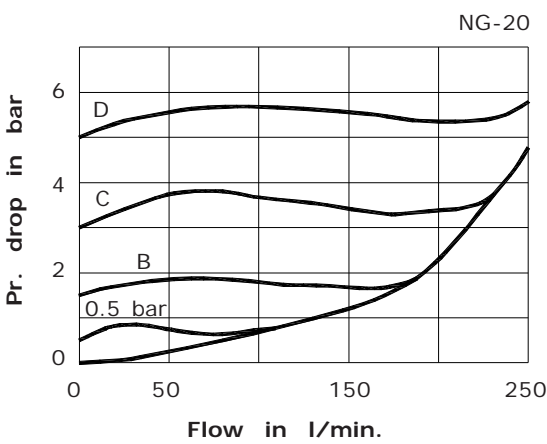
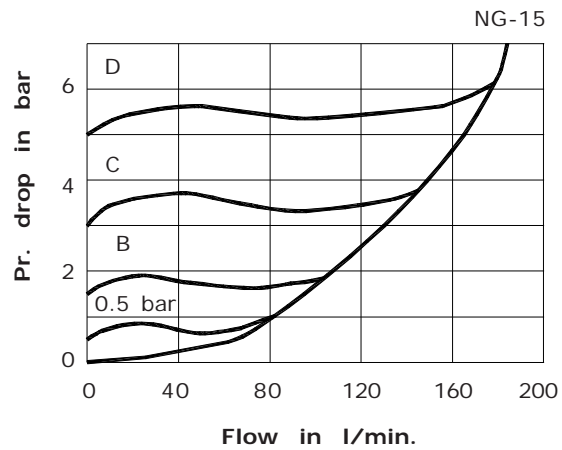
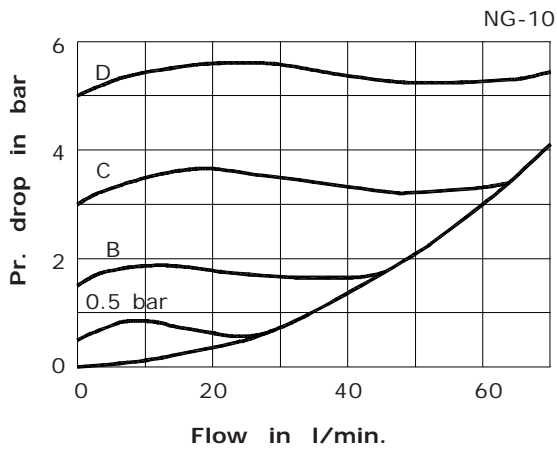
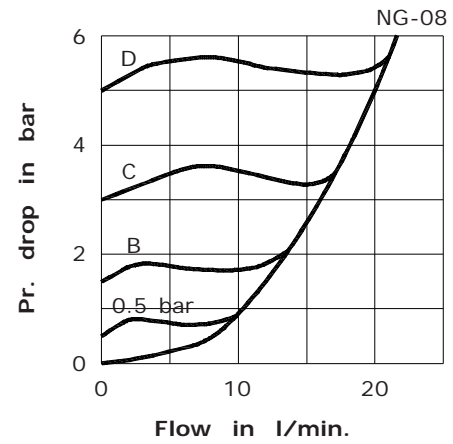
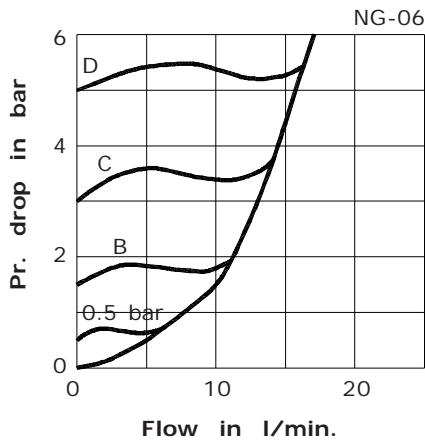


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## Expected performance Curves

Oil used : ISO VG 68,  
Viscosity : 68 cSt @ 40 °C



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## RHD

Tube connection as per ISO 8434 at both ends

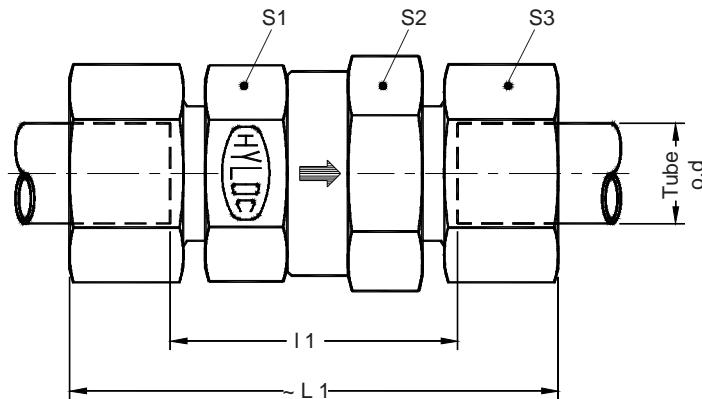


Table 1

| Ordering Code | Size  | Tube od | S1 | S2 | S3 | L1   | I1   |
|---------------|-------|---------|----|----|----|------|------|
| RHD06PL-2.0   | NG-06 | 6 - L   | 22 | 24 | 14 | 65.5 | 35.5 |
| RHD08PL-2.0   |       | 8 - L   |    |    | 17 | 65.5 | 35.5 |
| RHD06PS-2.0   |       | 6 - S   |    |    | 17 | 69.5 | 39.5 |
| RHD08PS-2.0   |       | 8 - S   |    |    | 19 | 69.5 | 39.5 |
| RHD10PL-2.0   | NG-08 | 10 - L  | 32 | 36 | 19 | 76.0 | 46.0 |
| RHD10PS-2.0   |       | 10 - S  |    |    | 22 | 80.0 | 47.0 |
| RHD12PS-2.0   |       | 12 - S  |    |    | 24 | 80.0 | 47.0 |
| RHD12PL-2.0   | NG-10 | 12 - L  | 32 | 36 | 22 | 77.5 | 47.5 |
| RHD15PL-2.0   |       | 15 - L  |    |    | 27 | 79.5 | 49.5 |
| RHD16PS-2.0   |       | 16 - S  |    |    | 30 | 87.5 | 50.5 |
| RHD18PL-2.0   | NG-15 | 18 - L  | 41 | 46 | 32 | 87.5 | 54.5 |
| RHD20PS-2.0   |       | 20 - S  |    |    | 36 | 99.5 | 56.5 |
| RHD22PL-2.0   | NG-20 | 22 - L  | 50 | 55 | 36 | 103  | 70.0 |
| RHD25PS-2.0   |       | 25 - S  |    |    | 46 | 117  | 69.0 |
| RHD28PL-2.0   | NG-25 | 28 - L  | 55 | 60 | 41 | 112  | 79.0 |
| RHD30PS-2.0   |       | 30 - S  |    |    | 50 | 132  | 79.0 |
| RHD35PL-2.0   | NG-30 | 35 - L  | 65 | 70 | 50 | 130  | 87.0 |
| RHD42PL-2.0   |       | 42 - L  |    |    | 60 | 132  | 86.0 |
| RHD38PS-2.0   |       | 38 - S  |    |    | 60 | 150  | 88.0 |

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## RHZ

Tube connections (ISO 8434) at inlet  
BSP Male stud end (with ED seal) at outlet

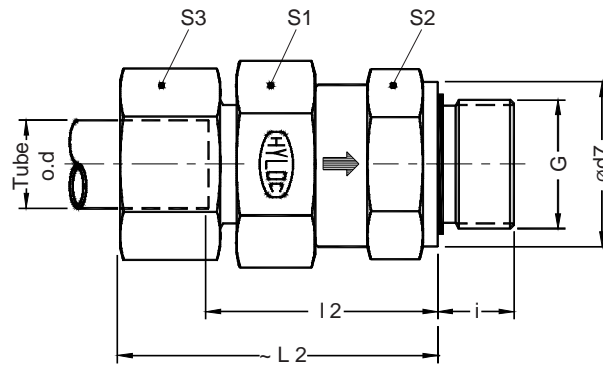


Table 2

| Part Number   | Size  | Tube od | S1 | S2 | S3 | L2    | l2   | i    | G      | Ød7 |
|---------------|-------|---------|----|----|----|-------|------|------|--------|-----|
| RHZ06PLGE-2.0 | NG-06 | 6 - L   | 22 | 24 | 14 | 49.0  | 34.0 | 8.0  | G 1/8  | 14  |
| RHZ08PLGE-2.0 |       | 8 - L   |    |    | 17 | 49.5  | 34.5 | 12.0 | G 1/4  | 19  |
| RHZ06PSGE-2.0 |       | 6 - S   |    |    | 17 | 51.5  | 36.5 | 12.0 | G 1/4  | 19  |
| RHZ08PSGE-2.0 |       | 8 - S   |    |    | 19 | 51.5  | 36.5 | 12.0 | G 1/4  | 19  |
| RHZ10PLGE-2.0 | NG-08 | 10 - L  | 32 | 36 | 19 | 59.0  | 44.0 | 12.0 | G 1/4  | 19  |
| RHZ10PSGE-2.0 |       | 10 - S  |    |    | 22 | 61.5  | 45.0 | 12.0 | G 3/8  | 22  |
| RHZ12PSGE-2.0 |       | 12 - S  |    |    | 24 | 61.5  | 45.0 | 12.0 | G 3/8  | 22  |
| RHZ12PLGE-2.0 | NG-10 | 12 - L  | 32 | 36 | 22 | 61.0  | 46.0 | 12.0 | G 3/8  | 22  |
| RHZ15PLGE-2.0 |       | 15 - L  |    |    | 27 | 62.5  | 47.5 | 14.0 | G 1/2  | 27  |
| RHZ16PSGE-2.0 |       | 16 - S  |    |    | 30 | 66.5  | 48.0 | 14.0 | G 1/2  | 27  |
| RHZ18PLGE-2.0 | NG-15 | 18 - L  | 41 | 46 | 32 | 69.5  | 53.0 | 14.0 | G 1/2  | 27  |
| RHZ20PSGE-2.0 |       | 20 - S  |    |    | 36 | 75.5  | 54.0 | 16.0 | G 3/4  | 32  |
| RHZ22PLGE-2.0 | NG-20 | 22 - L  | 50 | 55 | 36 | 83.0  | 66.5 | 16.0 | G 3/4  | 32  |
| RHZ25PSGE-2.0 |       | 25 - S  |    |    | 46 | 90.0  | 66.0 | 18.0 | G1     | 40  |
| RHZ28PLGE-2.0 | NG-25 | 28 - L  | 55 | 60 | 41 | 92.0  | 75.5 | 18.0 | G1     | 40  |
| RHZ30PSGE-2.0 |       | 30 - S  |    |    | 50 | 102.0 | 75.5 | 20.0 | G1.1/4 | 50  |
| RHZ35PLGE-2.0 | NG-30 | 35 - L  | 65 | 70 | 50 | 106.0 | 84.5 | 20.0 | G1.1/4 | 50  |
| RHZ42PLGE-2.0 |       | 42 - L  |    |    | 60 | 107.0 | 84.0 | 22.0 | G1.1/2 | 55  |
| RHZ38PSGE-2.0 |       | 38 - S  |    |    | 60 | 116.0 | 85.0 | 22.0 | G1.1/2 | 55  |

## RHV

BSP Male stud end (with ED seal) at inlet  
Tube connections (ISO 8434) at outlet

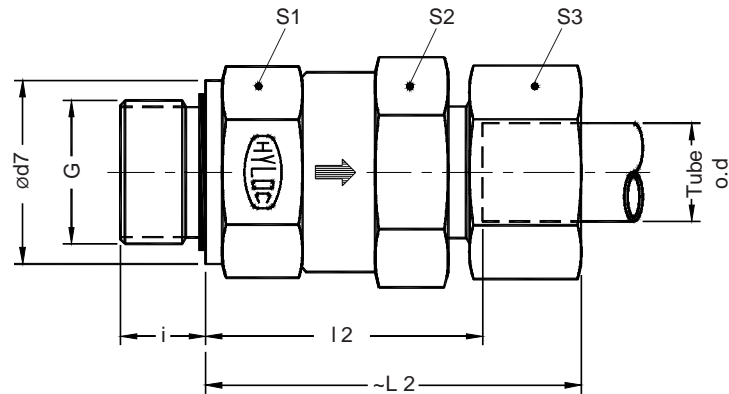


Table 3

| Part Number   | Size  | Tube od | S1 | S2 | S3 | L2    | I2   | i  | G      | Ød7 |
|---------------|-------|---------|----|----|----|-------|------|----|--------|-----|
| RHV06PLGE-2.0 | NG-06 | 6 - L   | 22 | 24 | 14 | 49.0  | 34.0 | 8  | G 1/8  | 14  |
| RHV08PLGE-2.0 |       | 8 - L   |    |    | 17 | 49.5  | 34.5 | 12 | G 1/4  | 19  |
| RHV06PSGE-2.0 |       | 6 - S   |    |    | 17 | 51.5  | 36.5 | 12 | G 1/4  | 19  |
| RHV08PSGE-2.0 |       | 8 - S   |    |    | 19 | 51.5  | 36.5 | 12 | G 1/4  | 19  |
| RHV10PLGE-2.0 | NG-08 | 10 - L  | 32 | 36 | 19 | 59.0  | 44.0 | 12 | G 1/4  | 19  |
| RHV10PSGE-2.0 |       | 10 - S  |    |    | 22 | 61.5  | 45.0 | 12 | G 3/8  | 22  |
| RHV12PSGE-2.0 |       | 12 - S  |    |    | 24 | 61.5  | 45.0 | 12 | G 3/8  | 22  |
| RHV12PLGE-2.0 | NG-10 | 12 - L  | 32 | 36 | 22 | 61.0  | 46.0 | 12 | G 3/8  | 22  |
| RHV15PLGE-2.0 |       | 15 - L  |    |    | 27 | 62.5  | 47.5 | 14 | G 1/2  | 27  |
| RHV16PSGE-2.0 |       | 16 - S  |    |    | 30 | 66.5  | 48.0 | 14 | G 1/2  | 27  |
| RHV18PLGE-2.0 | NG-15 | 18 - L  | 41 | 46 | 32 | 69.5  | 53.0 | 14 | G 1/2  | 27  |
| RHV20PSGE-2.0 |       | 20 - S  |    |    | 36 | 75.5  | 54.0 | 16 | G 3/4  | 32  |
| RHV22PLGE-2.0 | NG-20 | 22 - L  | 50 | 55 | 36 | 83.0  | 66.5 | 16 | G 3/4  | 32  |
| RHV25PSGE-2.0 |       | 25 - S  |    |    | 46 | 90.0  | 66.0 | 18 | G1     | 40  |
| RHV28PLGE-2.0 | NG-25 | 28 - L  | 55 | 60 | 41 | 92.0  | 75.5 | 18 | G1     | 40  |
| RHV30PSGE-2.0 |       | 30 - S  |    |    | 50 | 102.0 | 75.5 | 20 | G1.1/4 | 50  |
| RHV35PLGE-2.0 | NG-30 | 35 - L  | 65 | 70 | 50 | 106.0 | 84.5 | 20 | G1.1/4 | 50  |
| RHV42PLGE-2.0 |       | 42 - L  |    |    | 60 | 107.0 | 84.0 | 22 | G1.1/2 | 55  |
| RHV38PSGE-2.0 |       | 38 - S  |    |    | 60 | 116.0 | 85.0 | 22 | G1.1/2 | 55  |

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## RHF

BSP Ports at inlet and at outlet

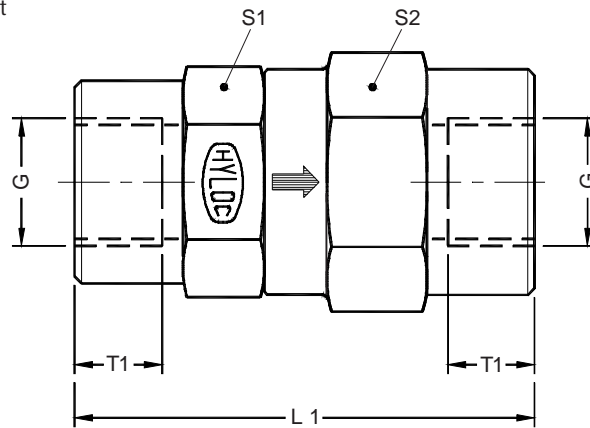
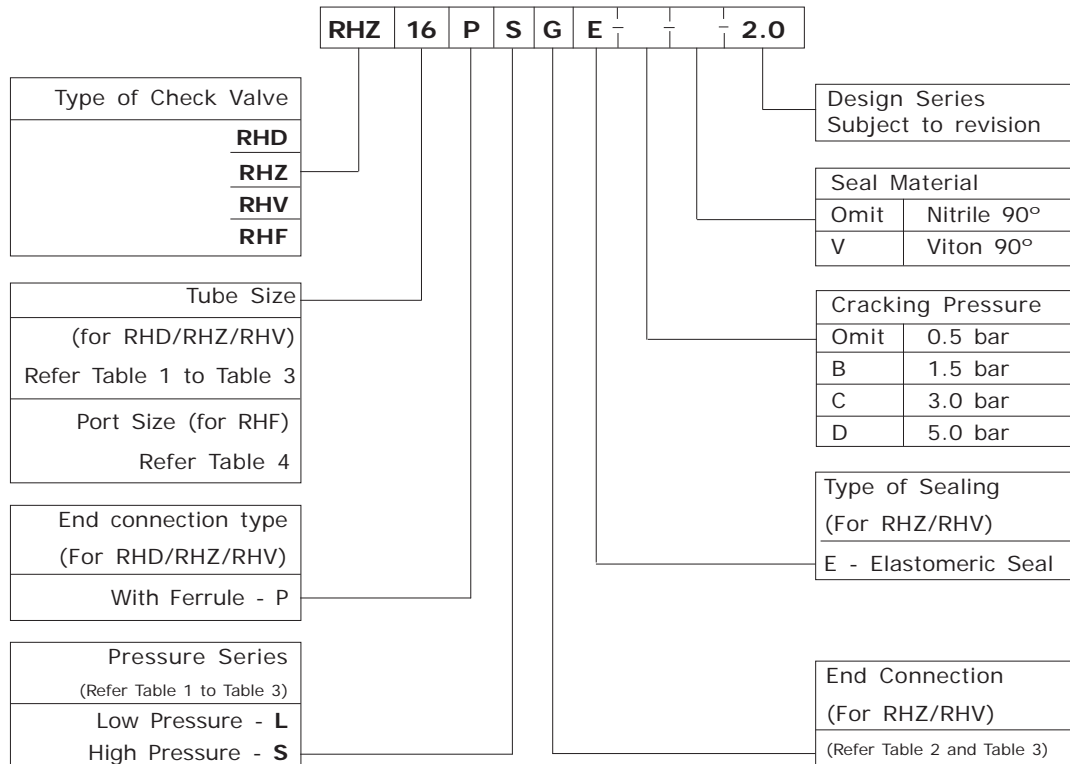


Table 4

| Ordering Code | G      | S1 | S2 | T1 | L1  |
|---------------|--------|----|----|----|-----|
| RHFG02-2.0    | G 1/4  | 22 | 24 | 12 | 58  |
| RHFG03-2.0    | G 3/8  | 32 | 36 | 12 | 58  |
| RHFG04-2.0    | G 1/2  | 32 | 36 | 14 | 72  |
| RHFG06-2.0    | G 3/4  | 41 | 46 | 16 | 85  |
| RHFG08-2.0    | G1     | 50 | 55 | 18 | 98  |
| RHFG10-2.0    | G1.1/4 | 55 | 60 | 20 | 120 |
| RHFG12-2.0    | G1.1/2 | 65 | 70 | 22 | 132 |

## Ordering Code



Note : Add prefix 316 to the existing part code for SS 316 valves. e.g. **316-RHD16PS-2.0**