

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



the right connection
the right environment

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

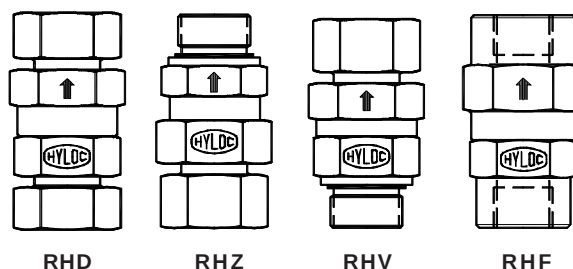
Description

Poppet type valves.

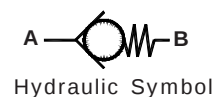
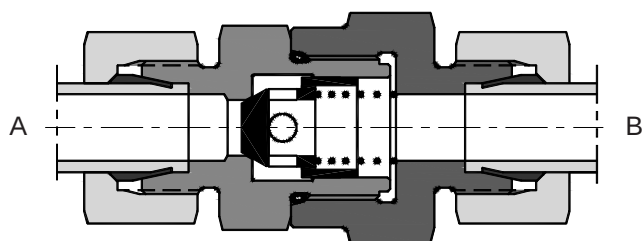
Allows free flow from port A to B and offer leakage free closure in opposite direction.

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



Hydraulic Symbol

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.

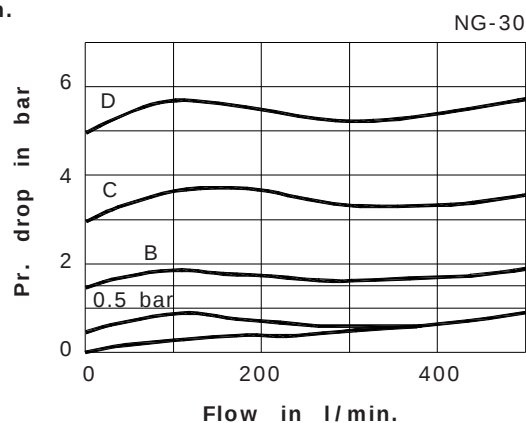
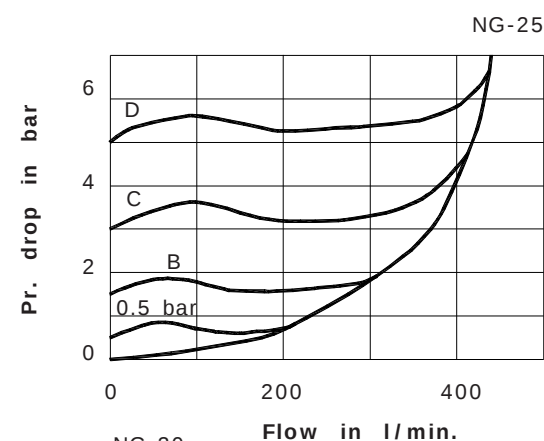
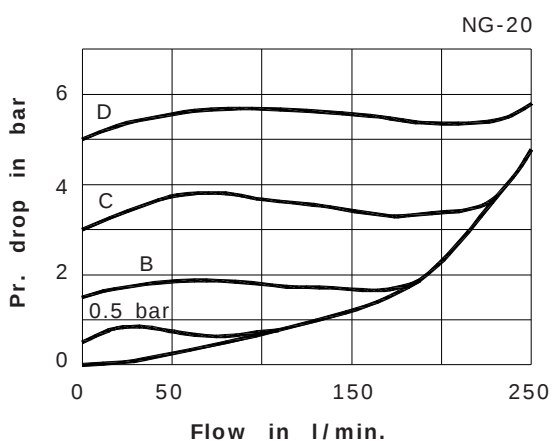
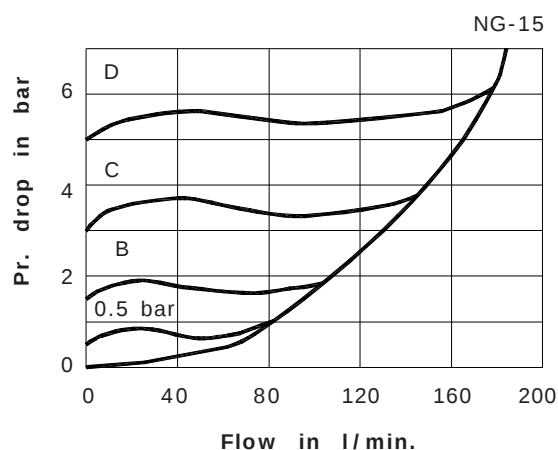
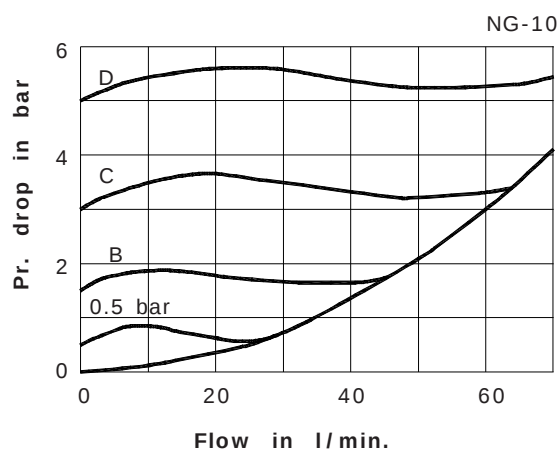
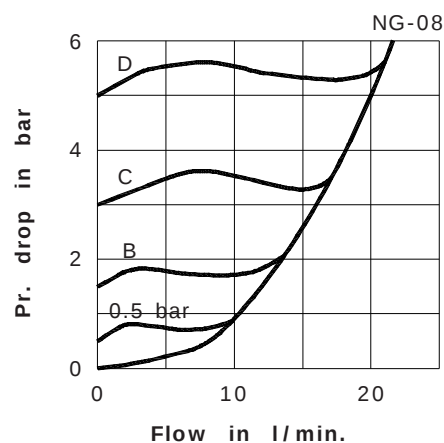
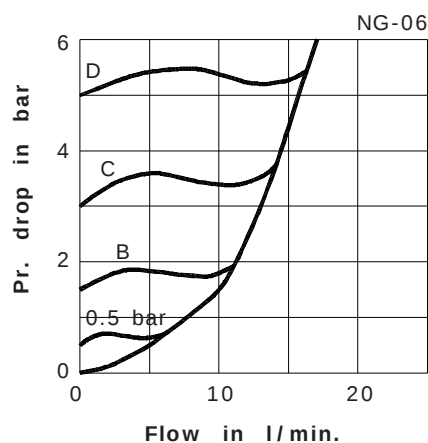
Fluid temperature range -20 °C to +70 °C.

Fluid cleanliness requirement As per ISO 19/16 or better.

Maximum flow handling capacity Refer graph.

Expected performance Curves

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



RHD

Tube connection as per ISO 8434 at both ends

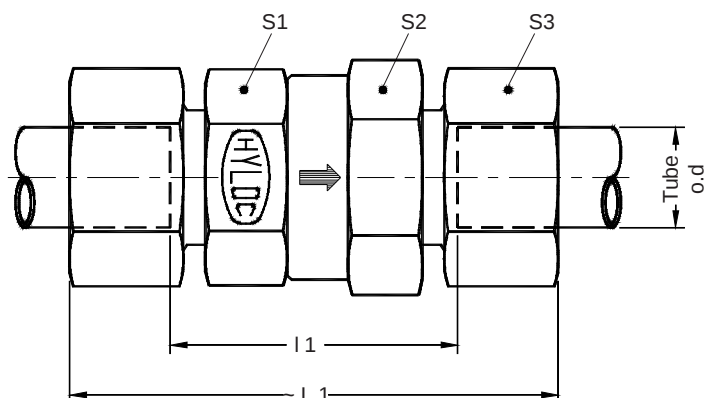


Table 1

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

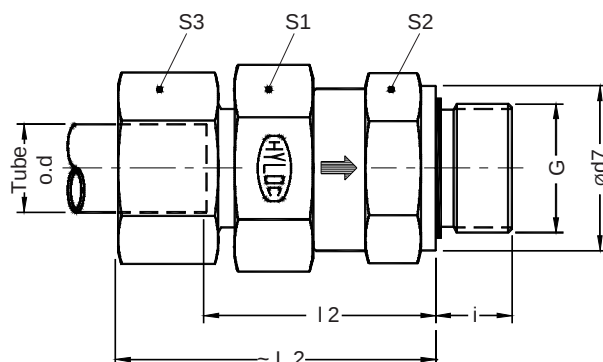


Table 2

Part Number	Size	Tube od	S1	S2	S3	L2	I2	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

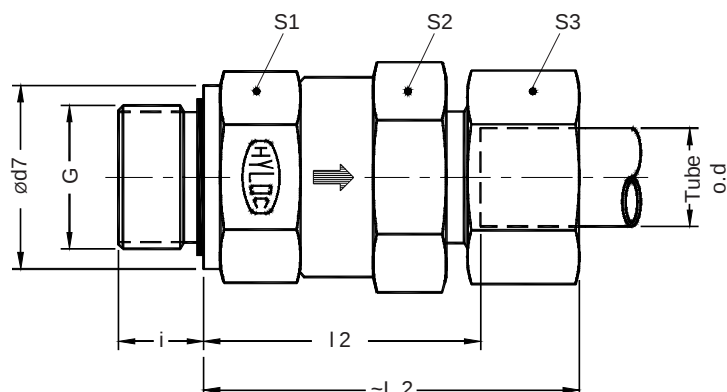


Table 3

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

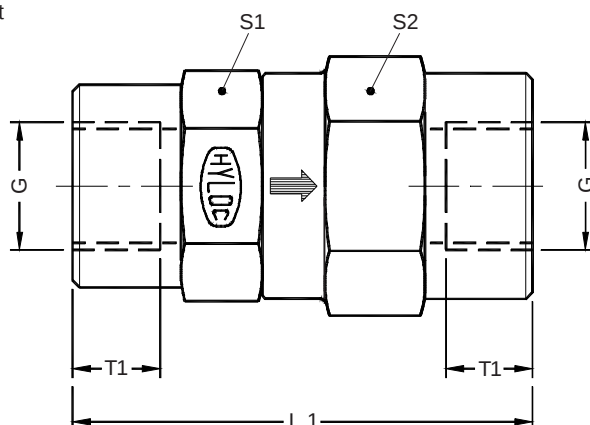


Table 4

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

Type of Check Valve		Design Series Subject to revision	
RHD RHZ RHV RHF		16 P S G E 2.0	
Tube Size (for RHD/RHZ/RHV) Refer Table 1 to Table 3		Seal Material	
Port Size (for RHF) Refer Table 4		Omit Nitrile 90° V Viton 90°	
End connection type (For RHD/RHZ/RHV) With Ferrule - P		Cracking Pressure	
Pressure Series (Refer Table 1 to Table 3) Low Pressure - L High Pressure - S		Omit 0.5 bar B 1.5 bar C 3.0 bar D 5.0 bar	
		Type of Sealing (For RHZ/RHV) E - Elastomeric Seal	
		End Connection (For RHZ/RHV) (Refer Table 2 and Table 3)	

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