Description

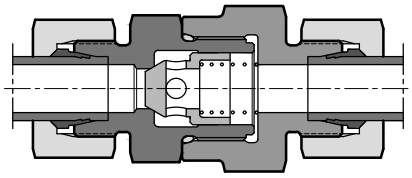
Inline mounted poppet type check valves, allow free flow in the direction of arrow and leak free closure in opposite direction.

Three mounting styles : Tube to tube - **RHD**
Tube to Male stud - **RHZ**
Male stud to Tube - **RHV**

Seven female port sizes from G 1/4 to G1.1/2

Five cracking pressures : 0, 0.5, 1.5, 3 and 5 bar

Section

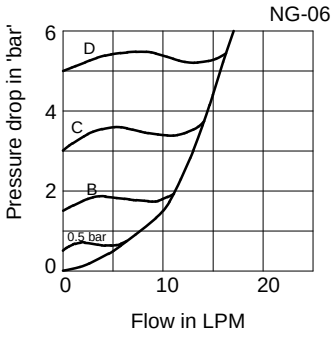


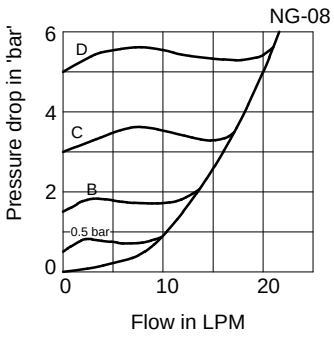
Hydraulic Symbol

Technical Specifications

Construction	Poppet type
Mounting style	In line
Mounting position	Optional
Cracking pressure available	0, 0.5, 1.5, 3.0 and 5.0 bar
Free Flow direction	In the direction of arrow.
Maximum pressure	Refer table for Individual model
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 4406 20/18/15
Maximum flow handling capacity	Refer graph

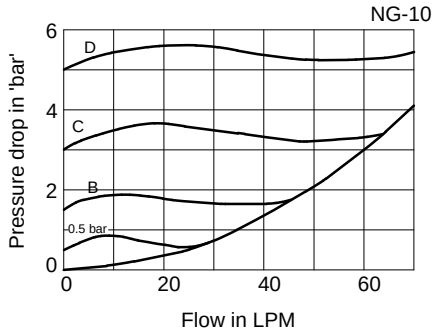
Oil used : ISO VG 68
Viscosity : 68 cSt @ 40 °C

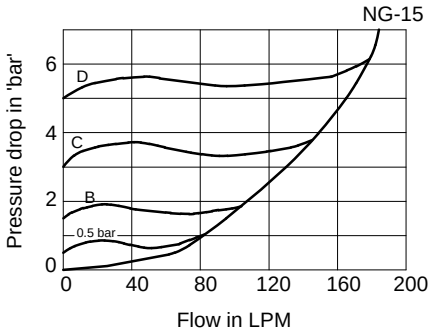


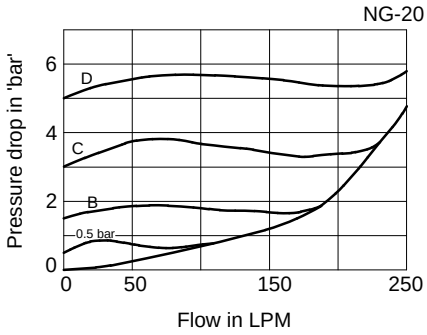


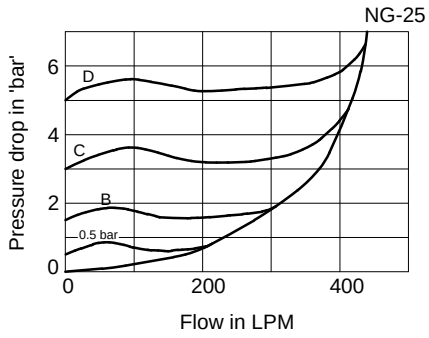
Expected performance curves

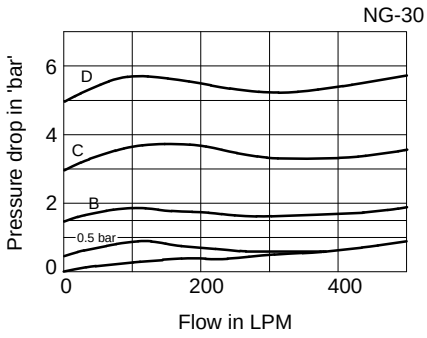
Oil used : ISO VG 68 Viscosity : 68 cSt @ 40 °C





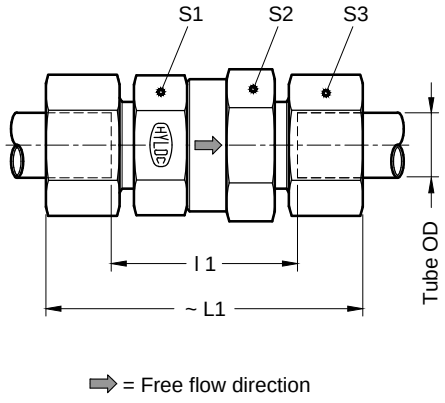






Unit Dimensions

RHD - Tube end connections conform to ISO 8434

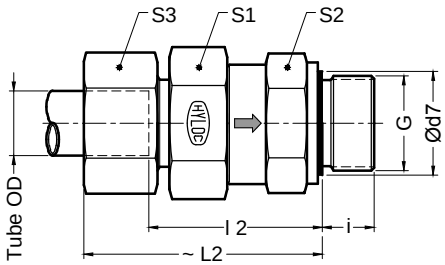


⇨ = Free flow direction

Table - 1

Part code	Size	Tube OD	Pressure Series	Pressure (bar)	I 1	L1	S1	S2	S3
RHD06PL-2.0	NG-06	06	L	250	35.5	65.5	22	24	14
RHD08PL-2.0		08	L	250	35.5	65.5			17
RHD06PS-2.0		06	S	315	39.5	69.5			17
RHD08PS-2.0		08	S	315	39.5	69.5			19
RHD10PL-2.0	NG-08	10	L	250	46.0	76.0	32	36	19
RHD10PS-2.0		10	S	315	47.0	80.0			22
RHD12PS-2.0		12	S	315	47.0	80.0			24
RHD12PL-2.0	NG-10	12	L	250	47.5	77.5	32	36	22
RHD15PL-2.0		15	L	250	49.5	79.5			27
RHD16PS-2.0		16	S	315	50.5	87.5			30
RHD18PL-2.0	NG-15	18	L	160	54.5	87.5	41	46	32
RHD20PS-2.0		20	S	315	56.5	99.5			36
RHD22PL-2.0	NG-20	22	L	160	70.0	103.0	50	55	36
RHD25PS-2.0		25	S	315	69.0	117.0			46
RHD28PL-2.0	NG-25	28	L	100	79.0	112.0	55	60	41
RHD30PS-2.0		30	S	250	79.0	132.0			50
RHD35PL-2.0	NG-30	35	L	100	87.0	130.0	65	70	50
RHD42PL-2.0		42	L	100	86.0	132.0			60
RHD38PS-2.0		38	S	250	88.0	150.0			60

RHZ - Tube end connections conform to ISO 8434 at inlet, BSP Male stud end (with ED seal) at outlet.



⇨ = Free flow direction

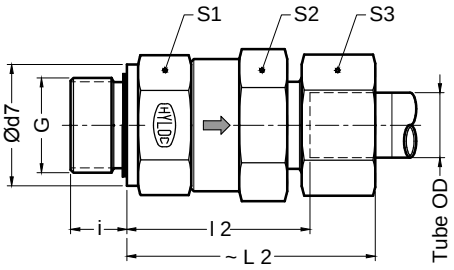
Table - 2

Part code	Size	Tube OD	Pr. Series	Pr. (bar)	G	i	l 2	L2	S1	S2	S3
RHZ06PLGE-2.0	NG-06	06	L	250	G 1/8	8.0	34.0	49.0	22	24	14
RHZ08PLGE-2.0		08	L	250	G 1/4	12.0	34.5	49.5			17
RHZ06PSGE-2.0		06	S	315	G 1/4	12.0	36.5	51.5			17
RHZ08PSGE-2.0		08	S	315	G 1/4	12.0	36.5	51.5			19
RHZ10PLGE-2.0	NG-08	10	L	250	G 1/4	12.0	44.0	59.0	32	36	19
RHZ10PSGE-2.0		10	S	315	G 3/8	12.0	45.0	61.5			22
RHZ12PSGE-2.0		12	S	315	G 3/8	12.0	45.0	61.5			24
RHZ12PLGE-2.0	NG-10	12	L	250	G 3/8	12.0	46.0	61.0	32	36	22
RHZ15PLGE-2.0		15	L	250	G 1/2	14.0	47.5	62.5			27
RHZ16PSGE-2.0		16	S	315	G 1/2	14.0	48.0	66.5			30
RHZ18PLGE-2.0	NG-15	18	L	160	G 1/2	14.0	53.0	69.5	41	46	32
RHZ20PSGE-2.0		20	S	315	G 3/4	16.0	54.0	75.5			36
RHZ22PLGE-2.0	NG-20	22	L	160	G 3/4	16.0	66.5	83.0	50	55	36
RHZ25PSGE-2.0		25	S	315	G 1	18.0	66.0	90.0			46
RHZ28PLGE-2.0	NG-25	28	L	100	G 1	18.0	75.5	92.0	55	60	41
RHZ30PSGE-2.0		30	S	250	G1.1/4	20.0	75.5	102.0			50
RHZ35PLGE-2.0	NG-30	35	L	100	G1.1/4	20.0	84.5	106.0	65	70	50
RHZ42PLGE-2.0		42	L	100	G1.1/2	22.0	84.0	107.0			60
RHZ38PSGE-2.0		38	S	250	G1.1/2	22.0	85.0	116.0			60

RHV - BSP Male stud end (with ED seal) at inlet, Tube end connections conform to ISO 8434 at outlet.

Table - 3

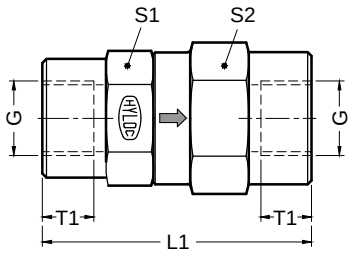
Part code	Size	Tube OD	Pr. Series	Pr. (bar)	G	i	l 2	L2	S1	S2	S3
RHV06PLGE-2.0	NG-06	06	L	250	G 1/8	8.0	34.0	49.0	22	24	14
RHV08PLGE-2.0		08	L	250	G 1/4	12.0	34.5	49.5			17
RHV06PSGE-2.0		06	S	315	G 1/4	12.0	36.5	51.5			17
RHV08PSGE-2.0		08	S	315	G 1/4	12.0	36.5	51.5			19
RHV10PLGE-2.0	NG-08	10	L	250	G 1/4	12.0	44.0	59.0	32	36	19
RHV10PSGE-2.0		10	S	315	G 3/8	12.0	45.0	61.5			22
RHV12PSGE-2.0		12	S	315	G 3/8	12.0	45.0	61.5			24
RHV12PLGE-2.0	NG-10	12	L	250	G 3/8	12.0	46.0	61.0	32	36	22
RHV15PLGE-2.0		15	L	250	G 1/2	14.0	47.5	62.5			27
RHV16PSGE-2.0		16	S	315	G 1/2	14.0	48.0	66.5			30
RHV18PLGE-2.0	NG-15	18	L	160	G 1/2	14.0	53.0	69.5	41	46	32
RHV20PSGE-2.0		20	S	315	G 3/4	16.0	54.0	75.5			36
RHV22PLGE-2.0	NG-20	22	L	160	G 3/4	16.0	66.5	83.0	50	55	36
RHV25PSGE-2.0		25	S	315	G 1	18.0	66.0	90.0			46
RHV28PLGE-2.0	NG-25	28	L	100	G 1	18.0	75.5	92.0	55	60	41
RHV30PSGE-2.0		30	S	250	G1.1/4	20.0	75.5	102.0			50
RHV35PLGE-2.0	NG-30	35	L	100	G1.1/4	20.0	84.5	106.0	65	70	50
RHV42PLGE-2.0		42	L	100	G1.1/2	22.0	84.0	107.0			60
RHV38PSGE-2.0		38	S	250	G1.1/2	22.0	85.0	116.0			60



⇨ = Free flow direction

Unit Dimensions

RHF - BSP Ports at inlet and at outlet.



⇨ = Free flow direction

Table - 4

Part code	Pressure (bar)	G	T 1	L1	S1	S2
RHFG02-2.0		G 1/4	12	58	22	24
RHFG03-2.0		G 3/8	12	58	32	36
RHFG04-2.0		G 1/2	14	72	32	36
RHFG06-2.0	315	G 3/4	16	85	41	46
RHFG08-2.0		G 1	18	98	50	55
RHFG10-2.0		G1.1/4	20	120	55	60
RHFG12-2.0		G1.1/2	22	132	65	70

Ordering Code

RHZ	16	P	S	GE	-	-	2.0

Check Valve model
- **RHD**
- **RHZ**
- **RHV**
- **RHF**

Tube Size
For RHD, RHZ and RHV
Refer Table 1 to Table 3

Port Size
For RHF
Refer Table 4

End connection type
For RHD, RHZ and RHV
Omit for model RHF
- With Double Bite Ferrule - **P**

End connection type
For RHD, RHZ and RHV
Omit for model RHF
- Low Pressure - **L**
- High pressure - **S**

Design Series
Subject to revision

Seals
- **Omit** - Nitrile
- **V** - FKM (Viton)

Cracking Pressure
- **X** - Without spring
- **Omit** - 0.5 bar
- **B** - 1.5 bar
- **C** - 3.0 bar
- **D** - 5.0 bar

End connection
For RHZ and RHV
G threads will be provided with Elastomeric seals
Refer
Table 2 and Table 3

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