

Description

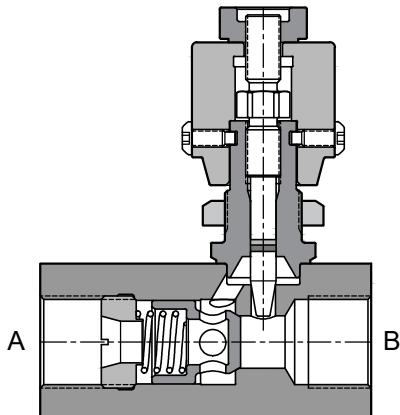
The Valve allows accurate adjustment of flow by throttling action. The throttling can be varied by rotation of the Hand knob.

The valve is also equipped with a built - in check valve for free reverse flow.

The valve is not viscosity or pressure compensated.

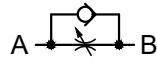


Section



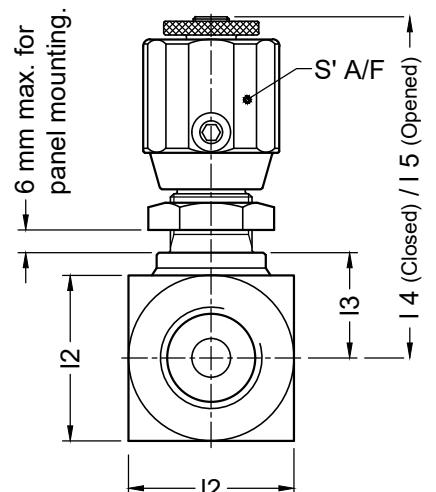
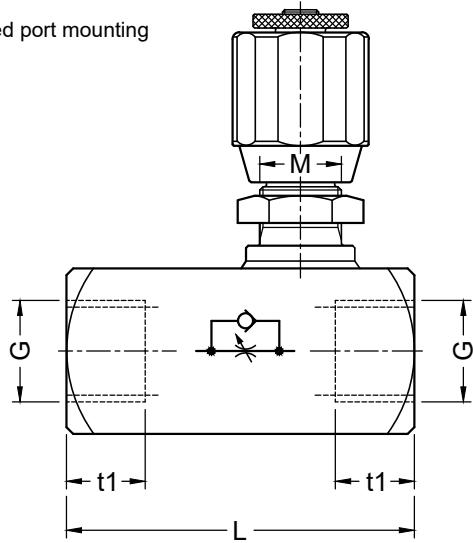
Model : TCG

Hydraulic Symbol



Unit Dimensions

In-line threaded port mounting



Dimensions in mm.



Table-1

Part code	Size	G	I2	I3	I4	I5	M	t 1	S	L	Pr. bar	Mass (Kg)
TCG02-2.0	NG-06	G 1/4	25	17.5	69.5	76.5	M18x1.5	12	30	64	315	0.45
TCG03-3.0	NG-08	G 3/8	30	20.0	72.0	79.0	M18x1.5	13	30	70	315	0.59
TCG04-2.0	NG-10	G 1/2	35	23.5	89.0	99.0	M22x1.5	14	41	80	315	0.96
TCG06-2.0	NG-15	G 3/4	45	28.5	94.0	104.0	M22x1.5	17	41	95	315	1.42
TCG08-2.0	NG-20	G 1	50	35.0	128.0	145.0	M36x2.0	18	50	125	315	2.80
TCG10-2.0	NG-25	G 1.1/4	60	40.0	133.0	150.0	M36x2.0	21	50	142	315	3.90
TCG12-2.0	NG-30	G 1.1/2	70	45.0	138.0	155.0	M36x2.0	22	50	150	315	5.30

In-line Tube mounting

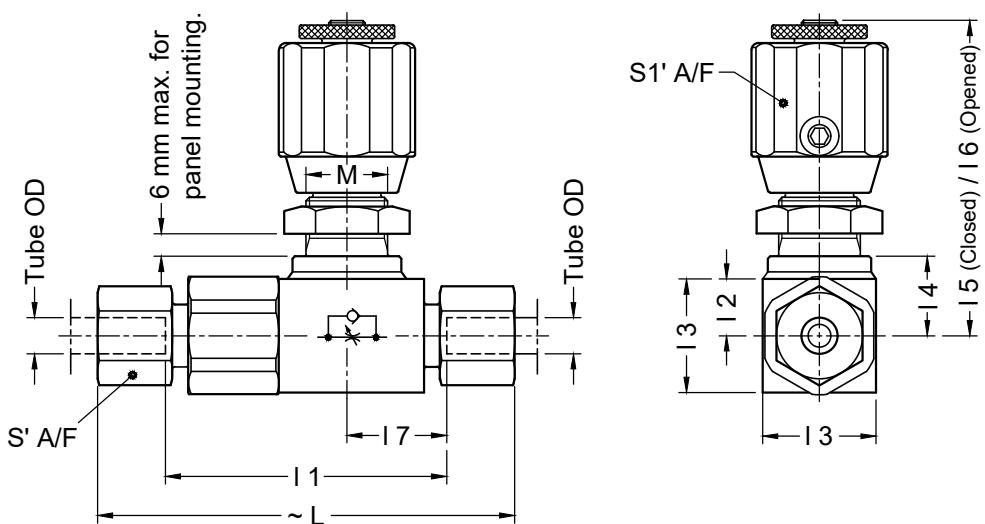


Table-2

Part code	Tube OD	Pressure Series	Pressure (bar)	Size	I 1	I 3	I 4	I 5	I 6	I 7	M	S	S1	L
TC06PL-2.0	06	L	250		57.0				20.0			14		87.0
TC08PL-2.0	08	L	250		57.0				20.0			17		87.0
TC06PS-2.0	06	S	315	NG-06	61.0	25.0	17.5	69.5	76.5		M18x1.5	17	30	91.0
TC08PS-2.0	08	S	315		61.0				22.0			19		91.0
TC10PL-2.0	10	L	250		63.0				21.0			19		93.0
TC10PS-2.0	10	S	315	NG-08	64.0	30.0	20.0	72.0	79.0	21.5	M18x1.5	22	30	97.0
TC12PS-2.0	12	S	315		64.0				21.5			24		97.0
TC12PL-2.0	12	L	250		70.0				22.0			22		100.0
TC15PL-2.0	15	L	250	NG-10	72.0	35.0	23.5	89.0	99.0	23.0	M22x1.5	27	41	102.0
TC16PS-2.0	16	S	315		74.0				23.5			30		110.0
TC18PL-2.0	18	L	160		80.5				24.5			32		113.5
TC20PS-2.0	20	S	315	NG-15	82.5	45.0	28.5	94.0	104.0	25.5	M22x1.5	36	41	125.5
TC22PL-2.0	22	L	160		109.0				36.5			36		142.0
TC25PS-2.0	25	S	315	NG-20	108.0	50.0	35.0	128.0	145.0	36.0	M36x2.0	46	50	156.0
TC28PL-2.0	28	L	100	NG-25	120.0	60.0	40.0	133.0	150.0	39.5	M36x2.0	41		153.0
TC30PS-2.0	30	S	250		120.0				39.5			50		173.0
TC35PL-2.0	35	L	100		130.0				40.5			50		173.0
TC42PL-2.0	42	L	100	NG-30	129.0	70.0	45.0	138.0	155.0	40.0	M36x2.0	60	50	175.0
TC38PS-2.0	38	S	250		131.0				41.0			60		193.0

Technical Specifications

Construction ----- Conical throttling spool with rotation of hand knob for flow adjustment.
 Poppet valve for free reverse flow.

Mounting style ----- Inline port or tube mounting.

Mounting position ----- Optional

Flow direction ----- Adjustable throttled flow from A to B, free flow from B to A.

Operating pressure ----- Refer Table -1 and Table-2.

Hydraulic medium ----- Mineral oil.

Viscosity range ----- 10 cSt to 380 cSt.

Fluid temperature range ----- -20 °C to +80 °C

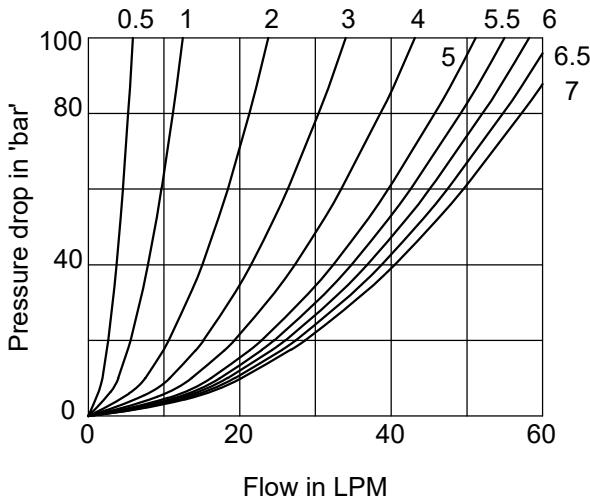
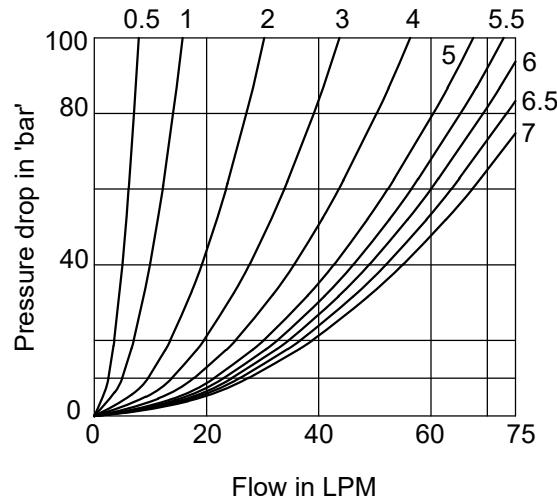
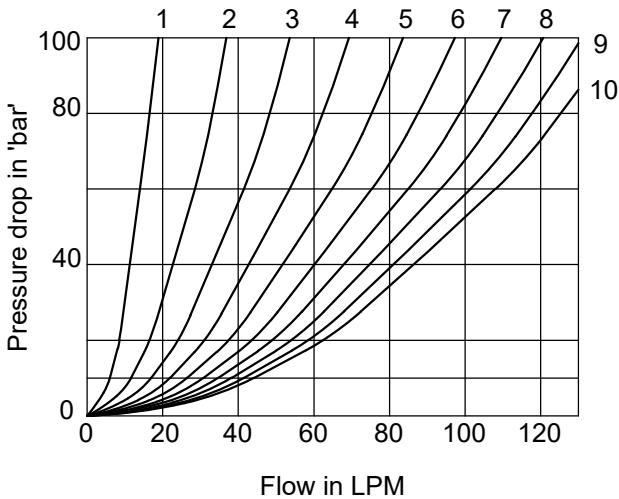
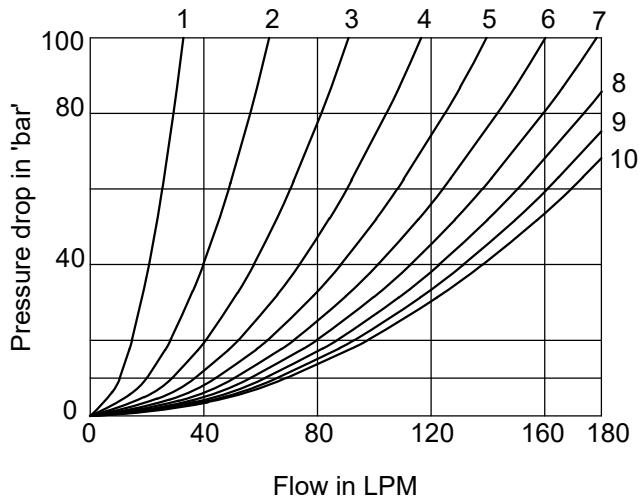
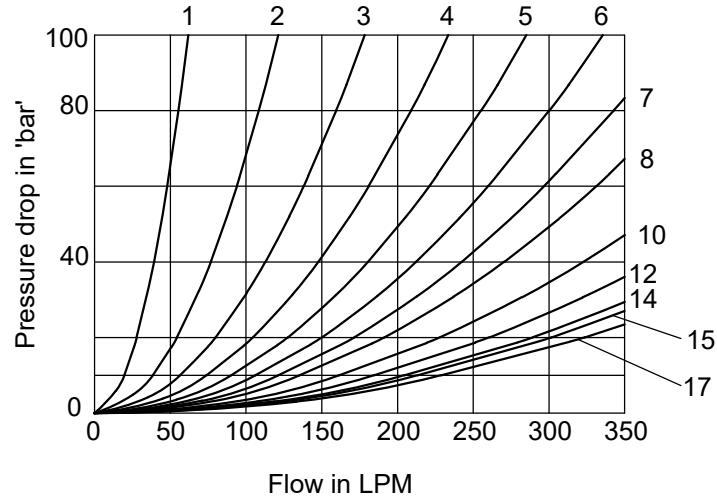
Fluid cleanliness requirement ----- As per ISO 4406 20/18/15

Nom. flow handling capacity ----- Refer graphs

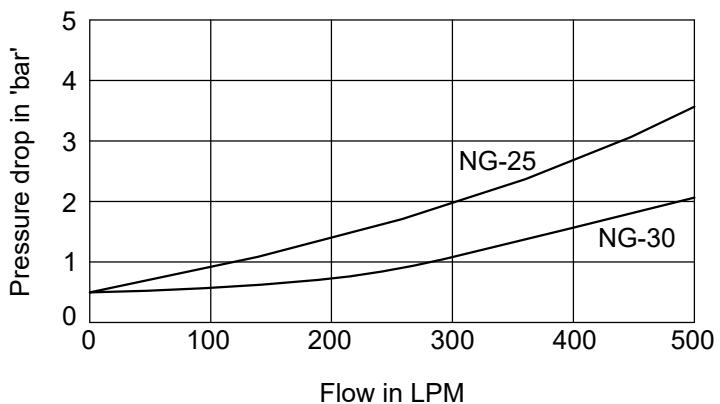
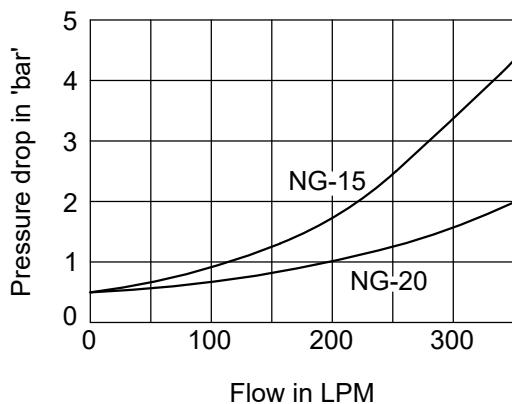
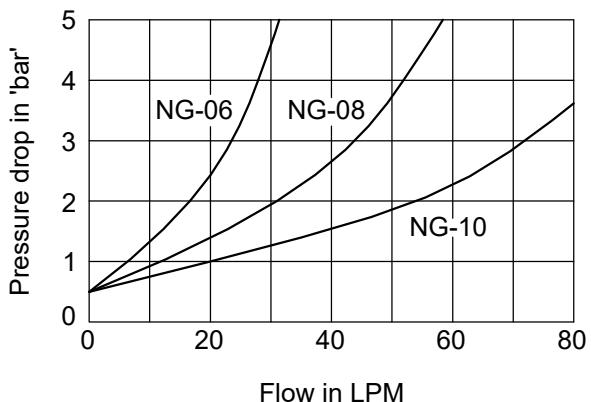
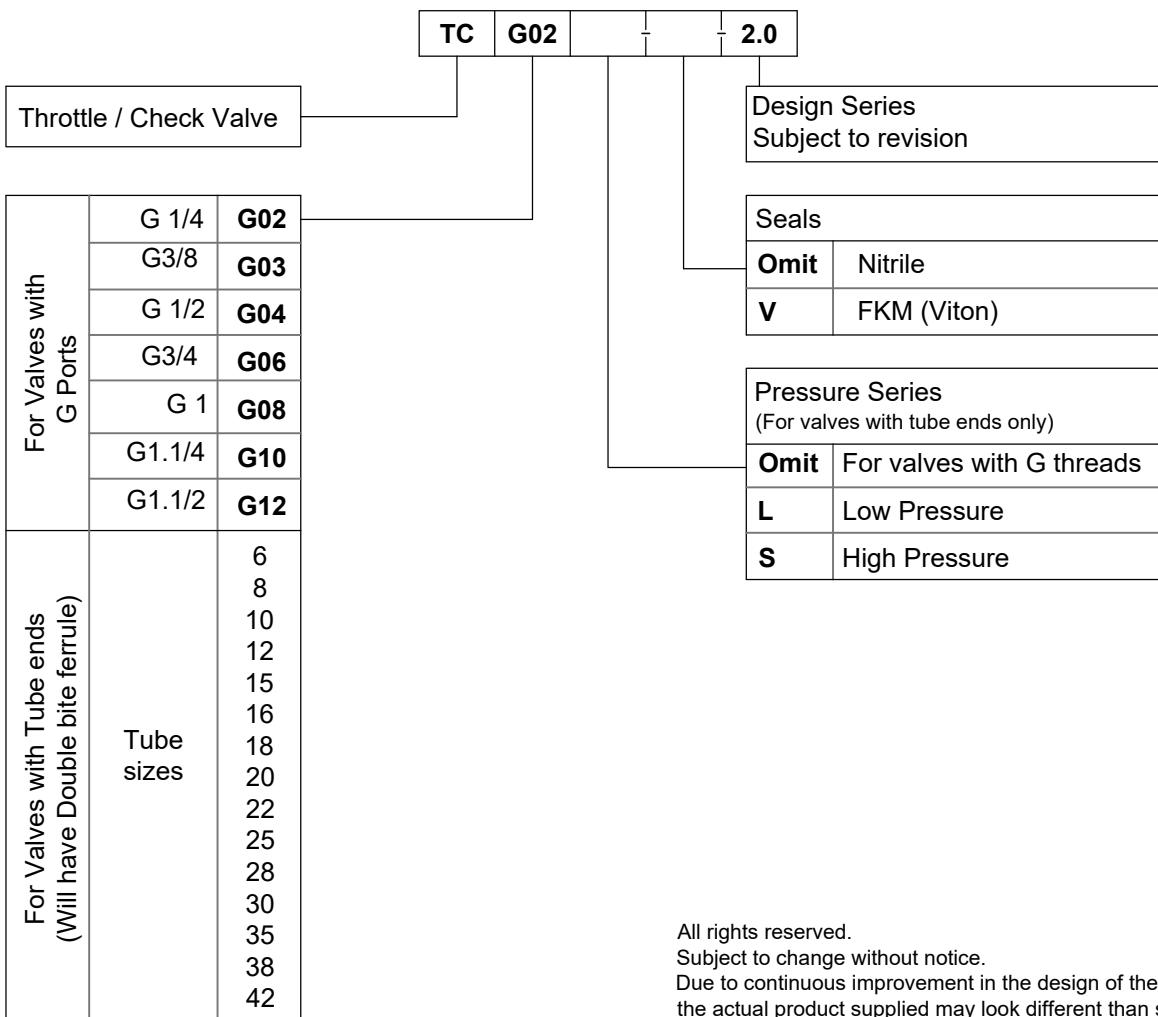
Expected performance curves

Oil used : ISO VG 68
Viscosity : 68 cSt @ 40 °C
Direction of flow : A to B

Graphs below shows Throttle position (No. of turns) from Closed position

NG-06

NG-08

NG-10

NG-15

NG-20, NG-25 and NG-30


Direction of free flow from 'B' to 'A'


Ordering Code


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 Due to continuous improvement in the design of the product,
 the actual product supplied may look different than shown above.