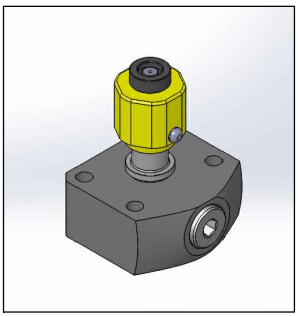
Description

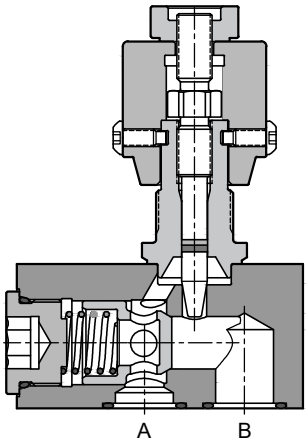
The Valve allows accurate adjustment of flow by throttling action. The throttling can be varied by rotation of the Hand knob.

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

The mounting Interface conforms to ISO 5781

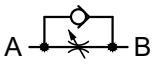


Section



Model : **TCMS**

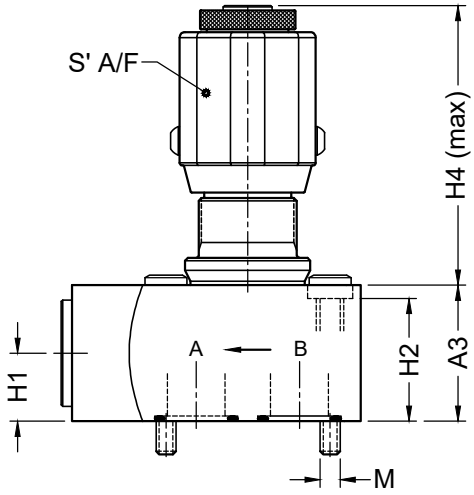
Hydraulic Symbol



Unit Dimensions

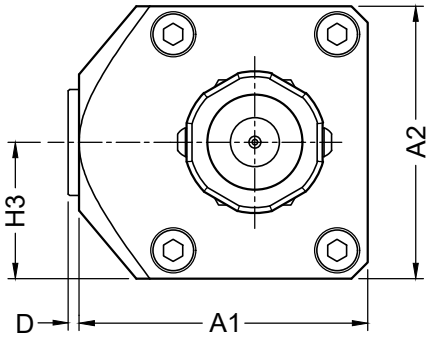
Dimensions in mm.

Sub-plate mounting

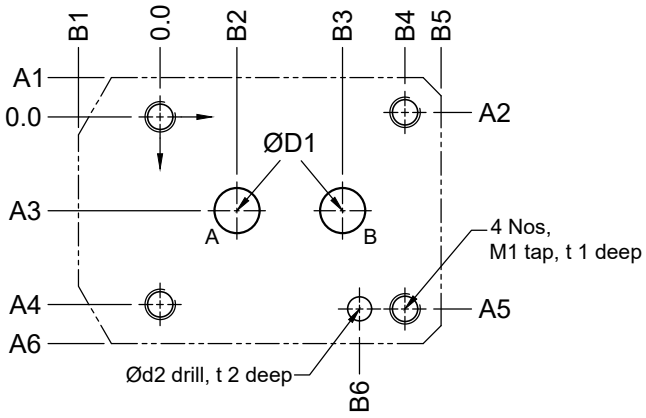


Part code	A1	A2	A3	H1	H2	H3	H4 (max)	D	S
TCMS06-2.0	60	44	25	12.5	22.5	22.0	64.0	3	30
TCMS10-3.0	81	88	40	22.5	40.0	44.0	81.5	3	41
TCMS20-2.0	106	100	50	25.0	45.0	50.0	120.0	4	50
TCMS30-2.0	135	117	70	35.0	65.0	58.5	120.0	4	50

Part code	Valve fixing screws, 10.9 grade	Torque
TCMS06-2.0	M5 x 0.8 x 30 Long, 4 Nos	5 Nm
TCMS10-3.0	M10 x 1.5 x 55 Long, 4 Nos	40 Nm
TCMS20-2.0	M10 x 1.5 x 60 Long, 4 Nos	52 Nm
TCMS30-2.0	M10 x 1.5 x 80 Long, 6 Nos	55 Nm

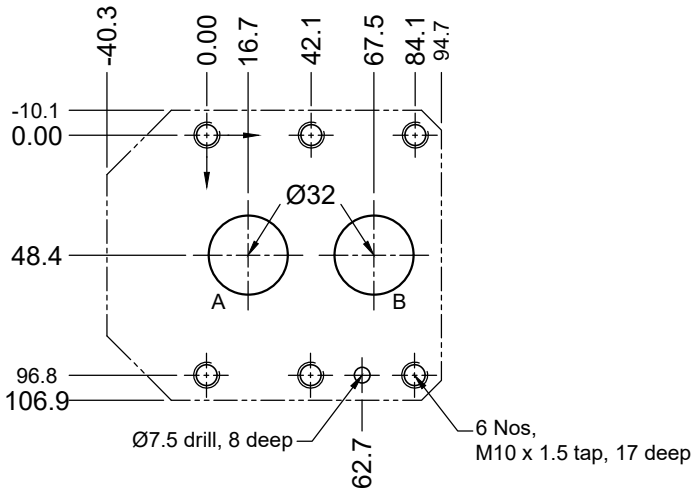


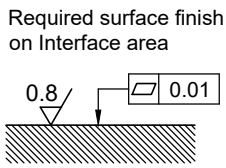
Interface details for NG-06, NG-10 and NG-20 as per ISO 5871



Part code	ØD1	A1	A2	A3	A4	A5	A6	B1	B2	B3	B4	B5	B6	M1	t 1	Ød2	t 2
TCMS06-2.0	7.5	-6.50	-0.75	15.5	31.0	31.75	37.5	-13.5	12.7	30.2	40.5	46.5	33.0	M5 x 0.8	9	4.0	5
TCMS10-2.0	14.0	-10.65	0.00	33.3	66.7	66.7	77.35	-27.5	7.1	35.7	42.9	53.5	31.8	M10 x1.5	17	7.5	8
TCMS20-2.0	22.0	-10.30	0.00	39.7	79.4	79.4	89.7	-34.5	11.1	49.2	60.3	71.5	44.5	M10 x 1.5	17	7.5	8

Interface details for **TCMS30-2.0**





Technical Specifications

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

Mounting style ---------- Sub-plate mounting.

Mounting Interface ---------- As per ISO 5781

Mounting position ---------- Optional

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

Operating pressure ---------- 315 bar.

Hydraulic medium ---------- Mineral oil.

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

Fluid temperature range ---------- -20 ºC to +80 ºC

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

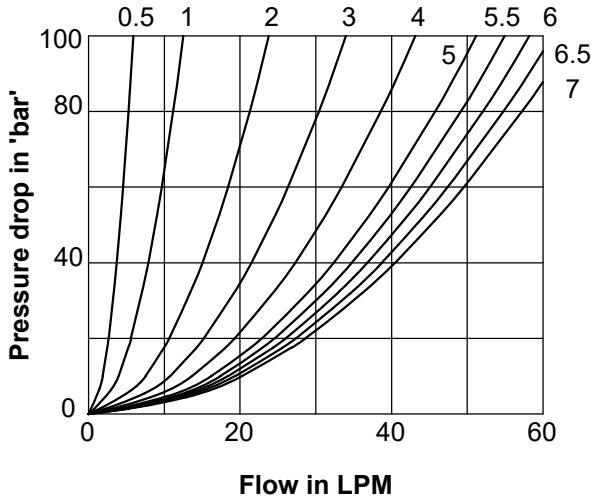
Nom. flow handling capacity ---------- Refer graphs

Expected performance curves

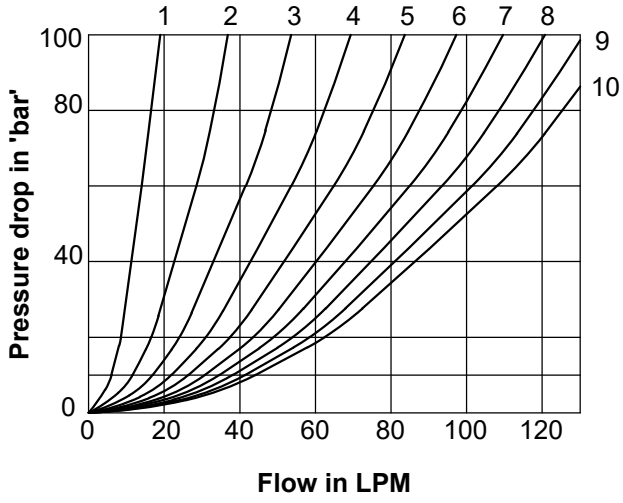
Oil used : ISO VG 68
Viscosity : 68 cSt @ 40 °C
Direction of flow : A to B

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

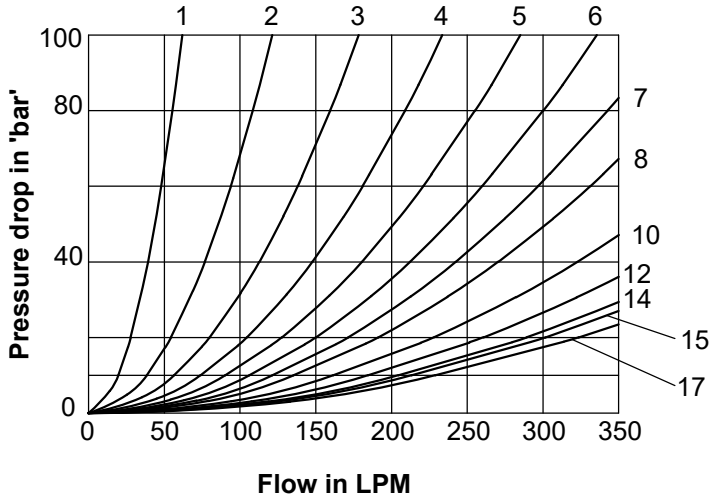
NG-06



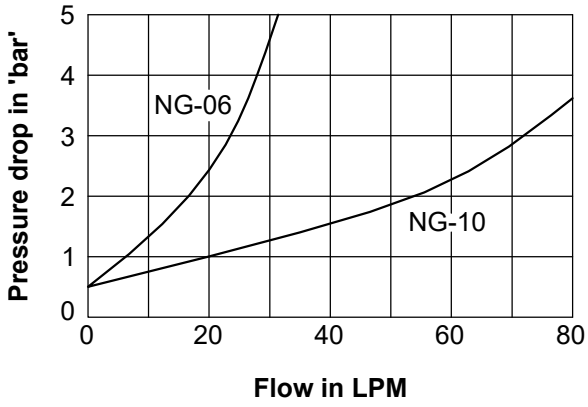
NG-10

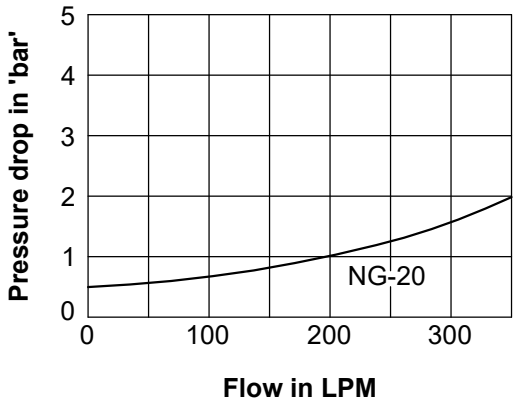


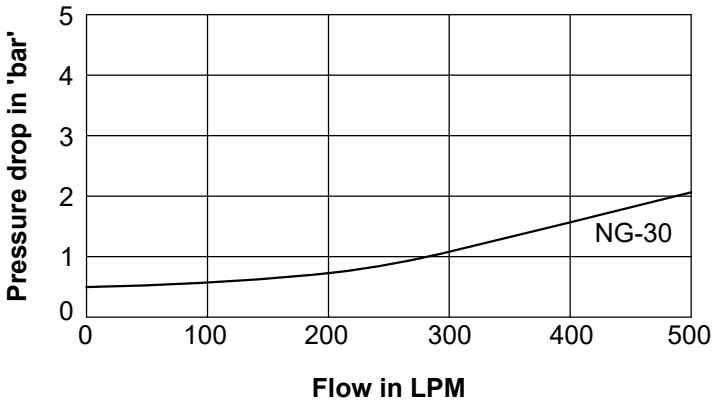
NG-20 and NG-30



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







Ordering Code

TC	MS	06	-	2.0

- TC: Throttle / Check Valve
- MS: Sub-plate mounting with ISO standard Interface
- 06: Size
  - NG 06 - **06**
  - NG 10 - **10**
  - NG 20 - **20**
  - NG 30 - **30**
- 2.0: Design Series Subject to revision
- Seals
  - **Omit** Nitrile
  - **V** FKM (Viton)