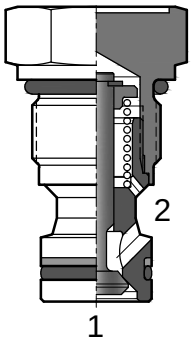
Reverse Check Valve - Screw in cartridge
KSD

Ref. No. H06965
Release: Aug 2020

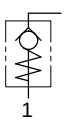
Description

KSD Check valves are TWO port screw in cartridge valves that are designed to fit in a cavity conforming to ISO 7789
These are seat type valves, available in four different sizes and with five different cracking pressures in each size.
Reverse check valves allow free flow in one direction while providing leak free closure in reverse direction.

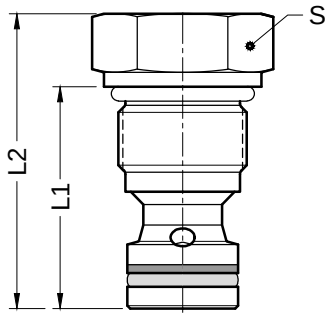
Section



Hydraulic Symbol



Unit dimensions



Part code	L1	L2	M	S	Torque
KSD06	30.0	42.0	M20	27	140 Nm
KSD10	38.0	50.5	M22	27	150 Nm
KSD16	49.5	74.5	M33	41	350 Nm
KSD20	55.5	85.0	M42	50	500 Nm

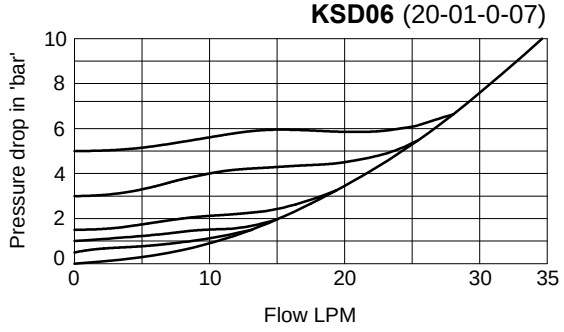
Technical Specifications

Construction ---------- Poppet seat type
Mounting style ---------- Screw in cavity as per ISO 7789
Mounting position ---------- Optional
Flow direction ---------- Free flow from 2 to 1
Operating pressure ---------- 350 bar

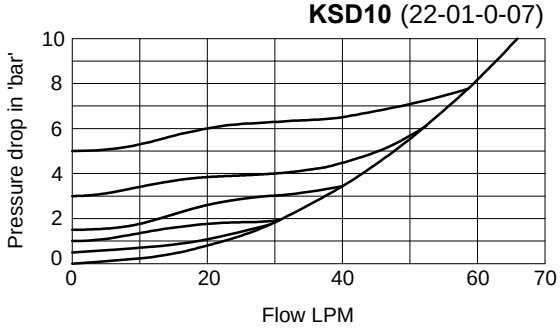
Hydraulic medium ---------- Mineral oil.
Viscosity range ---------- 10 cSt to 380 cSt
Fluid temperature range ---------- -20 °C to +80 °C.
Fluid cleanliness requirement ----- As per ISO 4406 20/18/15
Nom. flow handling capacity ------- Refer graphs

Performance curves - Testing as per ISO 6403. Oil used : ISO VG 68, Viscosity : 46 cSt @ 40 °C Direction of flow 2 to 1

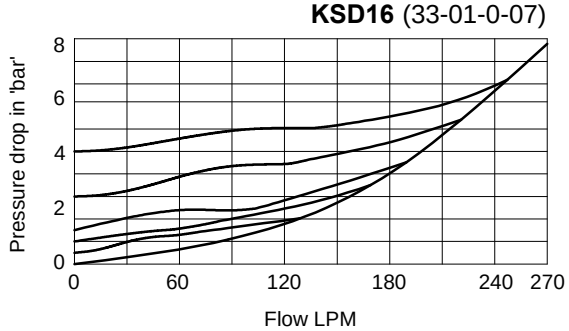
KSD06 (20-01-0-07)



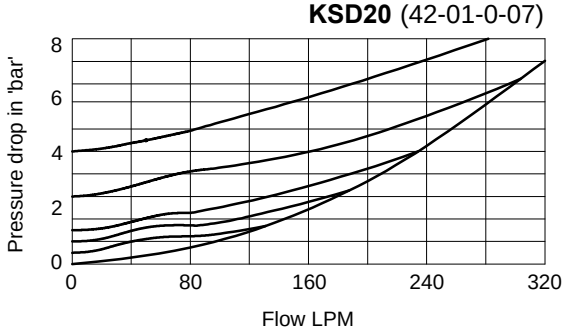
KSD10 (22-01-0-07)



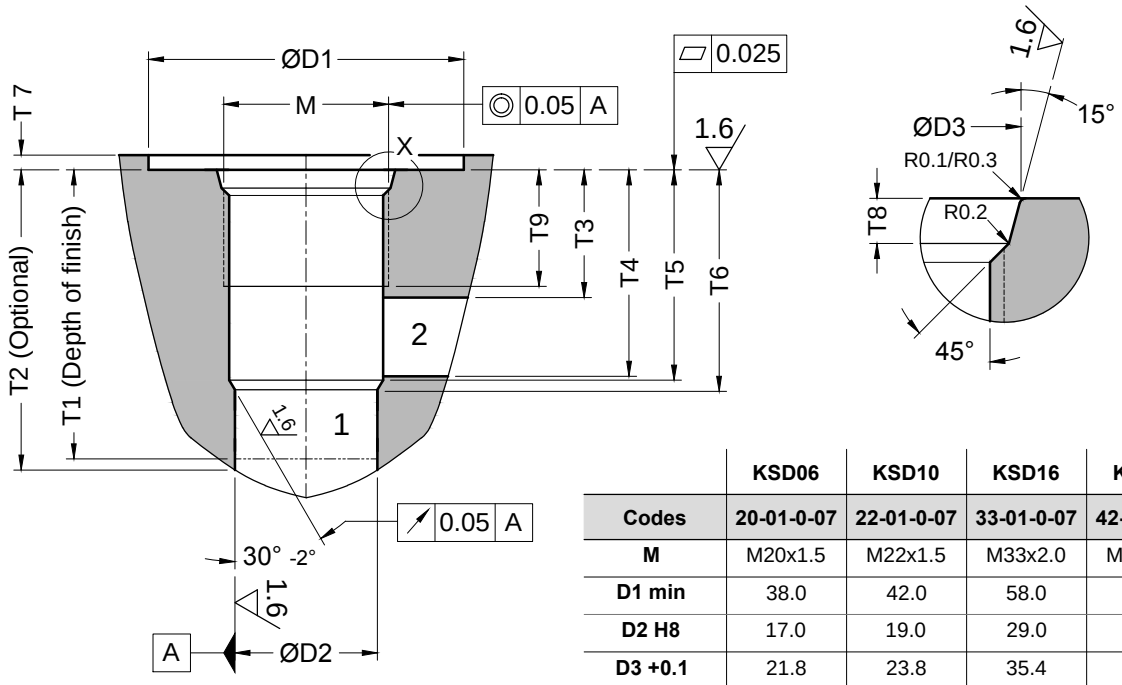
KSD16 (33-01-0-07)



KSD20 (42-01-0-07)



Cavity details



	KSD06	KSD10	KSD16	KSD20
Codes	**20-01-0-07**	**22-01-0-07**	**33-01-0-07**	**42-01-0-07**
M	M20x1.5	M22x1.5	M33x2.0	M42x2.0
D1 min	38.0	42.0	58.0	74.0
D2 H8	17.0	19.0	29.0	38.0
D3 +0.1	21.8	23.8	35.4	44.4
T1 min	30.5	38.5	50.0	56.0
T2 +1	32.0	40.0	52.0	58.0
T3 min	14.5	17.0	22.0	23.0
T4 max	20.5	27.5	38.5	43.5
T5 +0.4 (ref)	21.0	28.0	39.0	44.0
T6 +0.4	22.3	29.3	40.7	45.7
T7 max	2.0	2.0	2.5	2.5
T8 +0.4	2.4	2.4	3.1	3.1
T9 min	14.5	15.5	19.0	19.5

Ordering Code

KS	D	10	A	X	-	V	-	1.X

- **KS** — Screw in Cartridge
- **D** — Reverse Check Valve - **D**
- **10** — Valve Size

20-01-0-07	06
22-01-0-07	10
33-01-0-07	16
42-01-0-07	20

- **A** — Spring Cracking

0.5 bar	A
1.0 bar	B
1.5 bar	C
3.0 bar	D
5.0 bar	E
No Spring	X

- **X**

X	Non Adjustable cracking pressure

- **V**

N	Nitrile
V	FKM (Viton)

- **1.X** — Design Series
  Subject to revision
  1.0 to 1.9
  Externally interchangable