



The right connection
The right environment

Check Valve - Screw in cartridge KSC

Ref. No. H06925
Release: Apr 2025

ENGINEERING - 1 of 2

Description

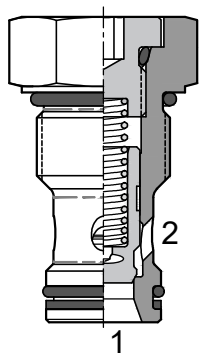
KSC Check valves are TWO port screw in cartridge valves that are designed to fit in a cavity conforming to ISO 7789

These are seat type valves, available in four different sizes and with five different cracking pressures in each size.

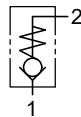
Check valves allow free flow in one direction while providing leak free closure in reverse direction.



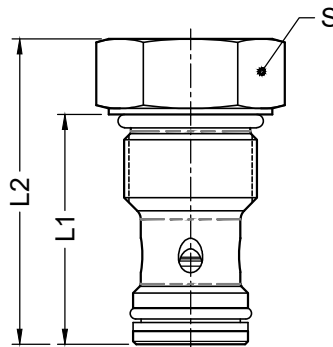
Section



Hydraulic Symbol



Unit dimensions



Part code	L1	L2	M	S	Torque
KSC06	30.0	41.5	M20	27	140 Nm
KSC10	38.0	52.5	M22	27	150 Nm
KSC16	49.5	81.5	M33	41	350 Nm
KSC20	55.0	91.0	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 1 to 2

Operating pressure----- 350 bar

Hydraulic medium----- Mineral oil.

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

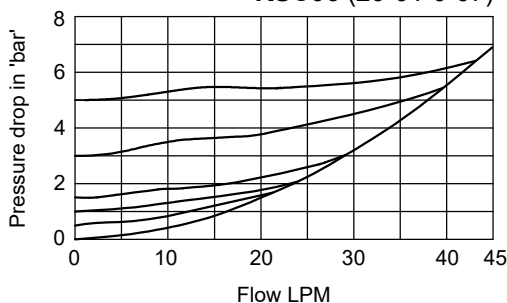
Fluid temperature range----- -20 °C to +80 °C (With Nitrile seals)
-10 °C to +100 °C (With Viton seals)

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

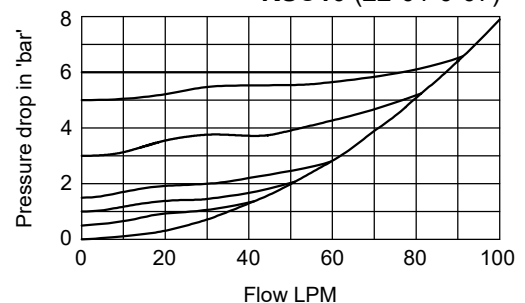
Nom. flow handling capacity----- Refer graphs

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

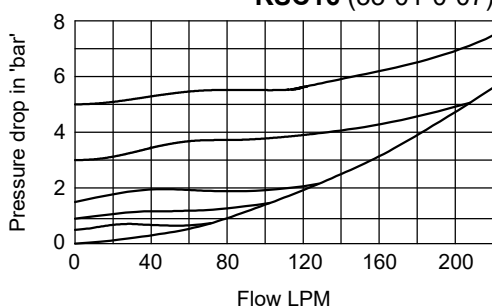
KSC06 (20-01-0-07)



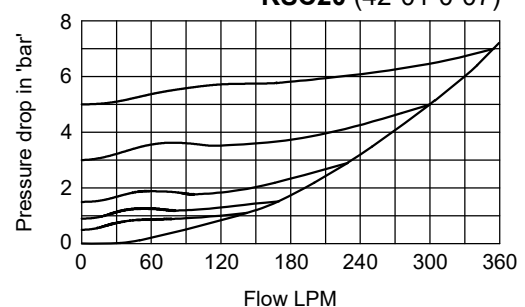
KSC10 (22-01-0-07)



KSC16 (33-01-0-07)



KSC20 (42-01-0-07)





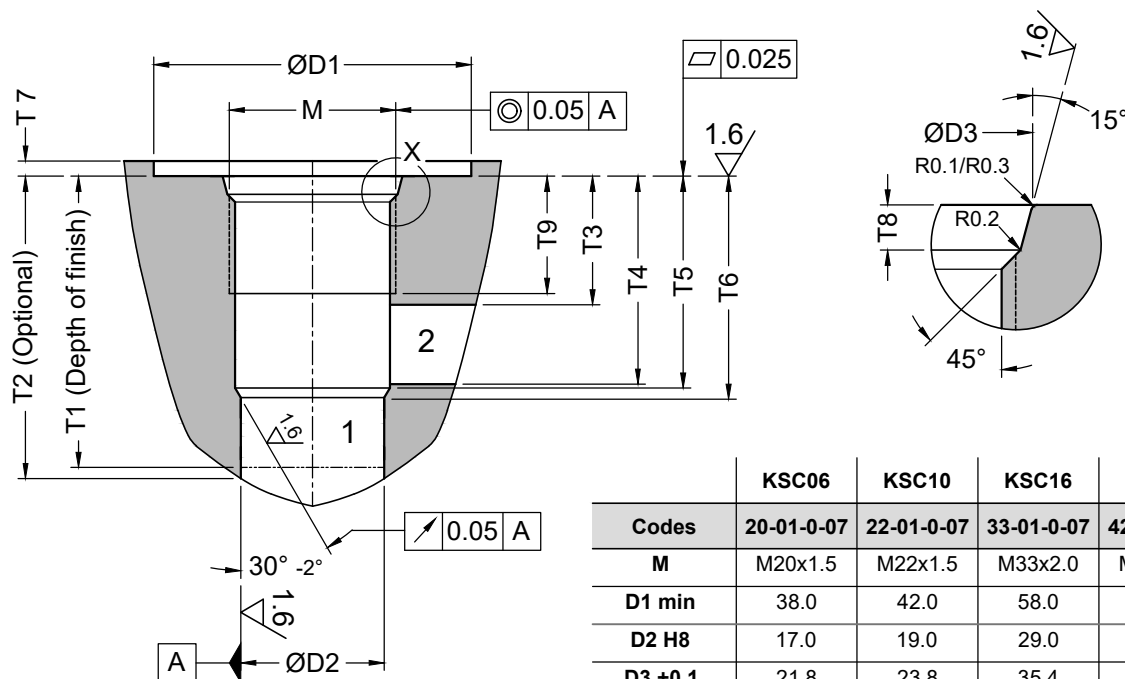
The right connection
The right environment

Check Valve - Screw in cartridge KSC

Ref. No. H06925
Release: Apr 2025

ENGINEERING - 2 of 2

Cavity details



	KSC06	KSC10	KSC16	KSC20
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		C	10	A	X	V	1.X	
Screw in Cartridge							Design Series Subject to revision 1.0 to 1.9 Externally interchangeable	
Check Valve - C								
Valve Size							Seals	
20-01-0-07	06						N	Nitrile
22-01-0-07	10						V	Viton
33-01-0-07	16							
42-01-0-07	20						X	Non Adjustable cracking pressure
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							

All rights reserved.
Subject to change without notice.
Due to continuous improvement in the design of the product, the actual product supplied may look different than shown above.