PEEK-Seal Poppet Check Valves

THCV SERIES

- Maximum Working Pressure : Up to 20,000psi(1,380bar)
- Working Temperature Range : -40°F (-40℃) to 185°F (85℃)
- Size from 1/4" to 3/4" inch is available
- Cone and Thread connection

TK-FUJIKIN CORPORATION
Fujikin Carp. Group

ORDERING INFORMATION

SS	–	THCV	–	4	M	CT	20	–	PK	–	H
1		2		3	4	5	6		7		8

1. BODY MATERIAL

Material	Designator
316 SS	SS

2. CHECK VALVE SERIES

3. CONNECTION SIZE

Size	Designator
1/4"	4
3/8"	6
9/16"	9
3/4"	12

4. WORKING PRESSURE

Working Pressuer	Designator
Medium	M

5. CONNECTION TYPE

Inlet / Outlet Connection Type	Designator
Cone & Thread	CT

6. PRESSURE SERIES

Description	Designator
20,000 psi	20

7. SEAT MATERIAL

Fluid & Purpose	Designator
PEEK	PK

8. FLUID & PURPOSE

Fluid & Purpose	Designator
General Gas, Water	Blank
General Hydrogen	H
Hydrogen Station ㎏	XM

FEATURES

■ PEEK Seat to Metal Seal Type
■ Nominal cracking pressure is less than 43 psi (3 bar)

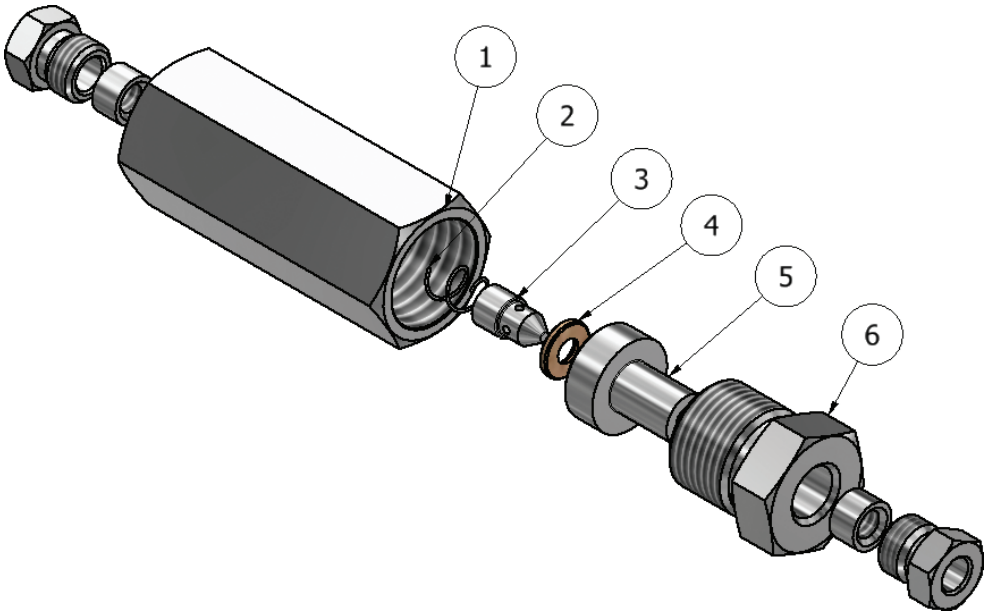
PRESSURE RANGES & TEMPERATURE RANGES

Part No.	Pressure Range	Temperature Range
THCV-□MCT20-PK	20,000 psig (1,387 bar)	-40°F (-40°C) to 185°F (85°C)
THCV-□MCT20-PK-H	20,000 psig (1,387 bar)	-40°F (-40°C) to 185°F (85°C)
THCV-□MCT20-PK-XM	10,153 psig (700bar)	-40°F (-40°C) to 185°F (85°C)

IMPORTANT INFORMATION ABOUT CHECK VALVES

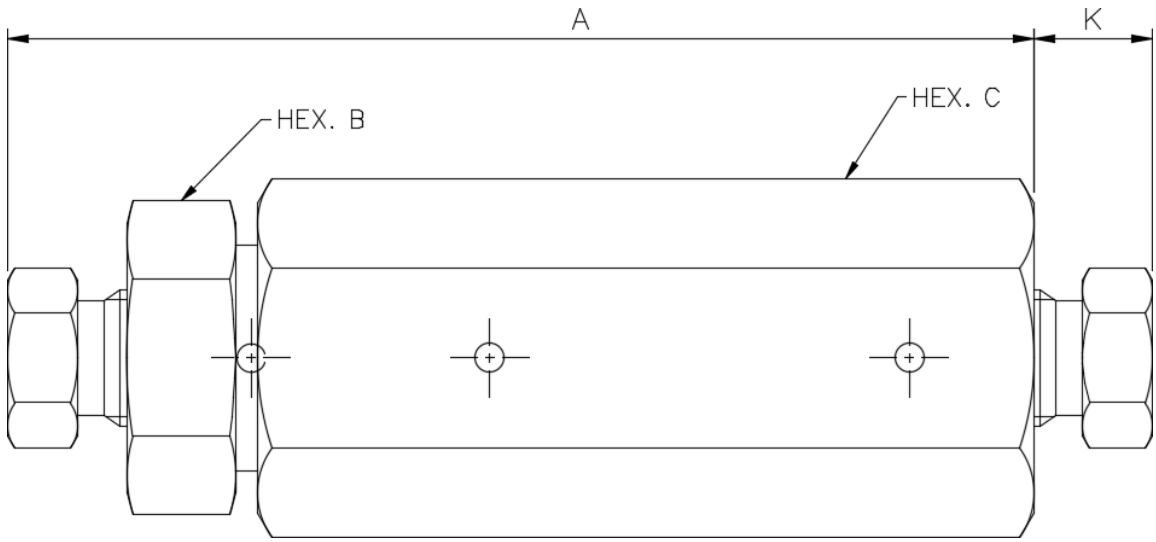
■ Check Valves are designed for directional flow control only.
■ Check Valves should never be used as a code safety relief devices, utilation valves, or shut-off valves.
■ For valves not actuted for a preiod of time, initial cracking pressure may be higher than the set cracking pressure.

MATERIALS OF CONSTRUCTION



No.	Description	Material	
		Material Grade / ASTM Specification	
		THCV-□MCT20-PK	THCV-□MCT20-PK-H,-XM
1	Body	ASTM A479 316 / 316L	
2	Spring	316L SS	
3	Poppet	630 SS / A564	XM-19 / A276
4	Seat	PEEK	
5	Cover	316 / A276	
6	Gland Nut	316 / A276	

DIMENSIONS



Ordering Number		End Connection		Dimensions, in. (mm)			
Series	Part No.	Inlet	Outlet	A	B	C	K
	20,000 psi (1,380 bar)						
THCV	4MCT20	1/4" Cone & Thread		2.92 (74.2)	7/8	1	0.38 (9.7)
	6MCT20	3/8" Cone & Thread		3.12 (79.2)	7/8	1 1/8	0.48 (12.2)
	9MCT20	9/16" Cone & Thread		4.22 (107.0)	1 3/8	1 3/8	0.68 (17.3)
	12MCT20	3/4" Cone & Thread		6.60 (167.0)	1 3/8	1 3/4	0.59 (15.0)

Head Office : 7, Noksansandan 261-ro 88beon-gil, Gangseo-gu, Busan, Korea
New Factory : 32, Hwajeonsandan 3-ro, Gangseo-gu, Busan, Korea
TEL. 82-51-970-6700 FAX. 82-51-831-1215 E-mail : htoc@tk-fujikin.com, ntoc@tk-fujikin.com