ASTAM SUPER CHECK

ASTAM VALVE

■ Design

The super check valve consists of two plates hinged on a single pin. The load is carried by two plates supported at the center by a single beam the the cylindrical valve body. The curved portion of the plates are supported by a flat shoulder in the valve body. The torsion spring actuates the plates for positive closure before the reverse flow can occure in most applications. The stop pin serves as a positive stop to limit the plates from traveling more than 85 degrees. The design is as per API 594.

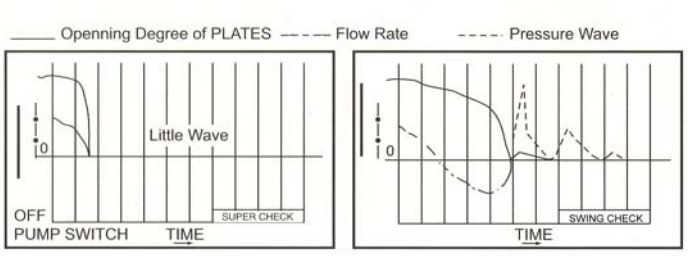
■ Features

The valve is short Face-to-Face, easy to install in a narrow space. Compact figure and light weight compared with the conventional Swing Check Valve, and simple design is in the true sense of easy to maintain due to small number of component part in Astam's valve.

The cylindrical shape body gives full scope to its ability for high pressure-temperature piping in case of considering thermal contraction and expansion.

Astam Super Check Valve does not only protect the casing of the high-priced pump and compressor against their piping load, but also reducing its piping work expense compared with the other traditional valves.

Astam Super Check Valve prevents from Water Hammer. Reaction of torsion spring installed inner valve makes plate rapidly close prior to the start of revere flow of fluid due to the stop of power, thus prevents line, pump and other piping facilities from the damage and trouble due to the Water Hammer.



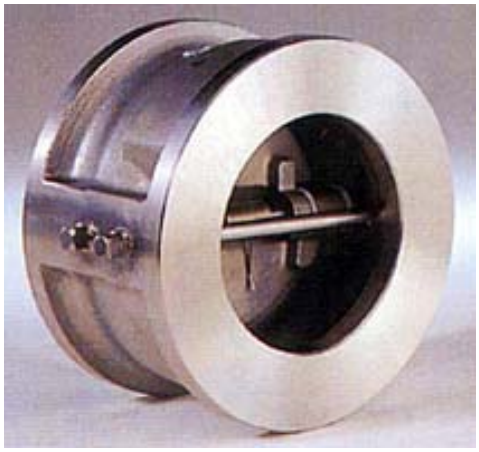
Metal-to-Metal seat is applied to the body of Ductile Iron, Cast steel,…etc. And SS316 overlay, SS410 overlay, Monel overlay, Stellite #6 overlay are available and can be specified to meet the fluid applications.

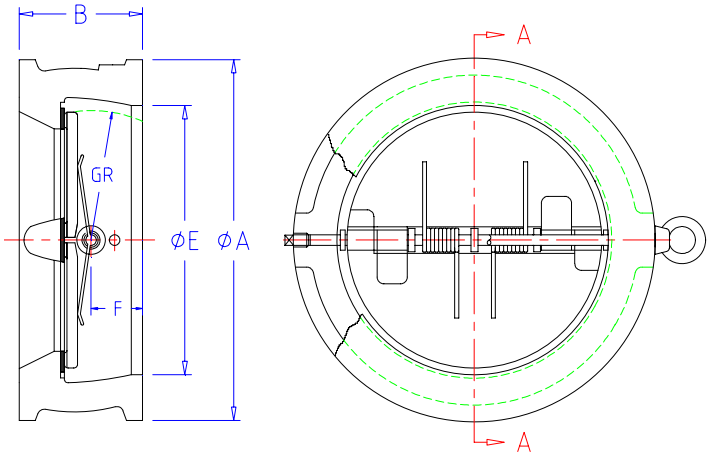
Call for more detail ***+886-3-3675805***

or email to: ***sales@astam-valve.com***

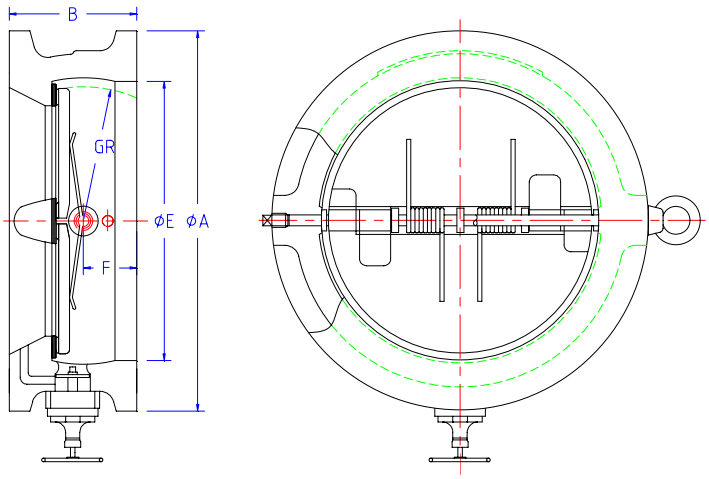
6D-0656 TÜV DIN EN ISO 9001:2000 PED 97/23/EC CE 0035

Design：API 594, API 6D

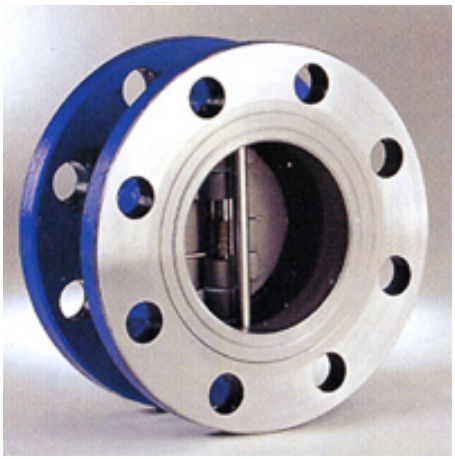


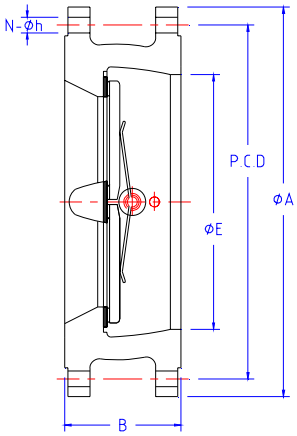


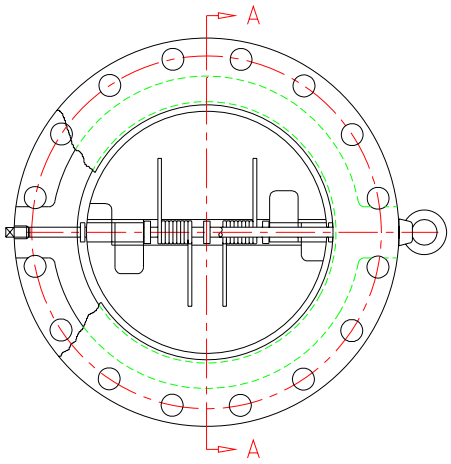
Dual-Plate Wafer Check Valve
Type：C1



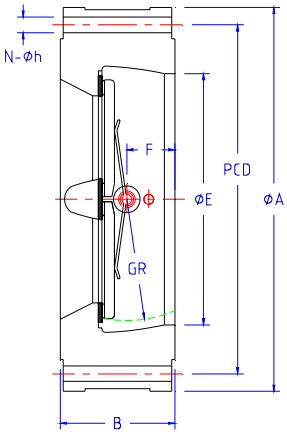
Dual-Plate Wafer Check Valve for by-pass
Type：C2

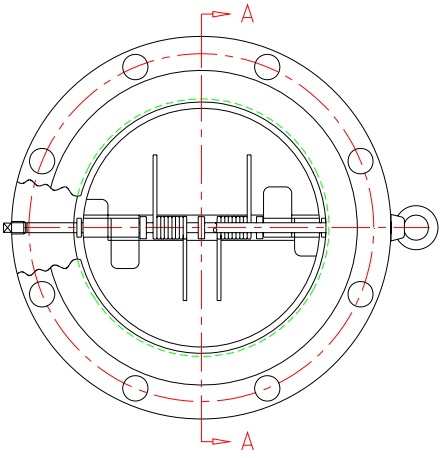






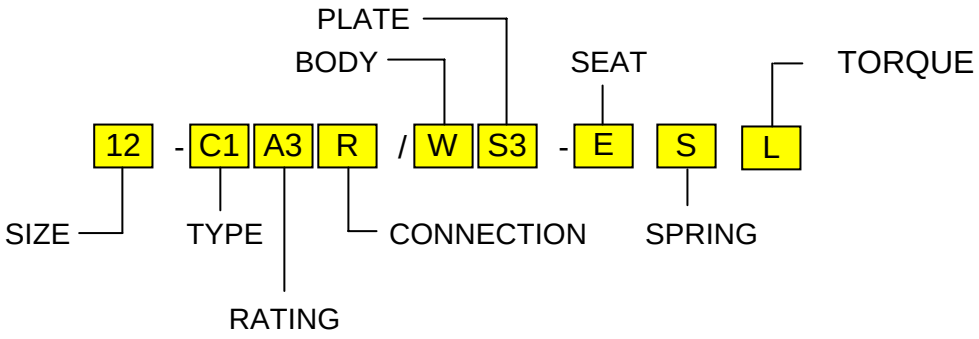
Dual-Plate Double-Flanged Check Valve
Type：C3





Dual-Plate Full-Flange Check Valve
Type：C4

DESCRIPTION OF PART NUMBER



Example: Dual-Plate Wafer Check Valve, ANSI 12"-150#, R.F End,
WCB BODY, CF8 PLATE, EPDM SEAT
S.S 316 SPRING LOW TORQUSE.

TYPE

SYMBOL	DESIGNATION
C1	Dual-Plate Wafer Check Valve
C2	Dual-Plate Wafer Check Valve for by-pass
C3	Dual-Plate Double-Flanged Wafer Check Valve
C4	Dual-Plate Full-Flange Wafer Check Valve

RATING

Standard	SYMBOL	0	1	2	3	4	5	6	7	8	9
ANSI	A		125*	250*	150	300	400	600	900	1500	2500
JIS	J	5	10*	16	10	20	30	40	63	100	
ISO,BS	S	10	16*	25	16	40	64	100	160	250	320

NOTE:"＊"means only for CAST IRON Valve.

MATERIALS

BODY, PLATE

SYMBOL	ANSI	JIS
C D D1	A126 Class B A536 65-45-12 A395	G5501 FC250 G5502 FCD450 B8270 FCD-S
W L	A216 Gr.WCB A352 Gr.LCB	G5151 SCPH2 G5152 SCPL1
S1 S3 S4 S6	A217 Gr.CA15 A351 Gr.CF8 A351 Gr.CF8M A351 Gr.CF3M	G5121 SCS1 G5121 SCS13 G5121 SCS 14 G5121 SCS16
B A	B584 C83600 B148 C95800	H5120 CAC406 H5120 CAC703

Other materials are available upon request.

End Connection

TYPE	SYMBOL	FINISH
Flat Face F.F	F	63AARH
Raised Face R.F	R	125~250 AARH
Ring Joint R.J	J	63AARH

SEAT

SYMBOL	DESIGNATION	TEMPERATURE
N C E F	NBR(Buna-N) CR(Neoprene) EPDM(EPT) FPE(VITON-A)	0~80℃ -10~80℃ -10~100℃ -30~150℃
O S6 S1 6	Matel to Matel S.S. 316 Overlay 13%Cr. Overlay Stellite 6# Overlay	-268~538℃

SPRING

SYMBOL	DESIGNATION	TEMP. (MAX.)
S X	S.S. 316 INCONEL X-750	121℃ 538℃

Spring Torqsue

Torque Type	SYMBOL	REMARKS
Standard	No Mark	Liquid: Max. 90mAq, Gas: Max.1kg/cm^2
LOW	L	Gas: Max. 1kgs/cm^2

Dual-Plate Wafer Check Valves of FLOW COEFFICIENT:(CV Value)

DN (NPS)	40A 1-1/2"	50A 2"	65A 2-1/2"	80A 3"	100A 4"	125A 5"	150A 6"	200A 8"	250A 10"	300A 12"	350A 14"
CV	46	72	132	180	380	635	864	1650	3017	4280	5790

DN (NPS)	400A 16"	450A 18"	500A 20"	550A 22"	600A 24"	650A 26"	700A 28"	750A 12"	800A 14"	850A 16"	900A 18"
CV	7922	10642	13400	19500	23500	25000	30000	37200	45000	51000	59000

DN (NPS)	950A 20"	1000A 22"	1050A 24"	1100A 26"	1150A 28"	1200A 24"	1250A 26"	1300A 28"	1350A 24"
CV	70000	81000	90000	100000	116500	136100	139200	143500	154000