

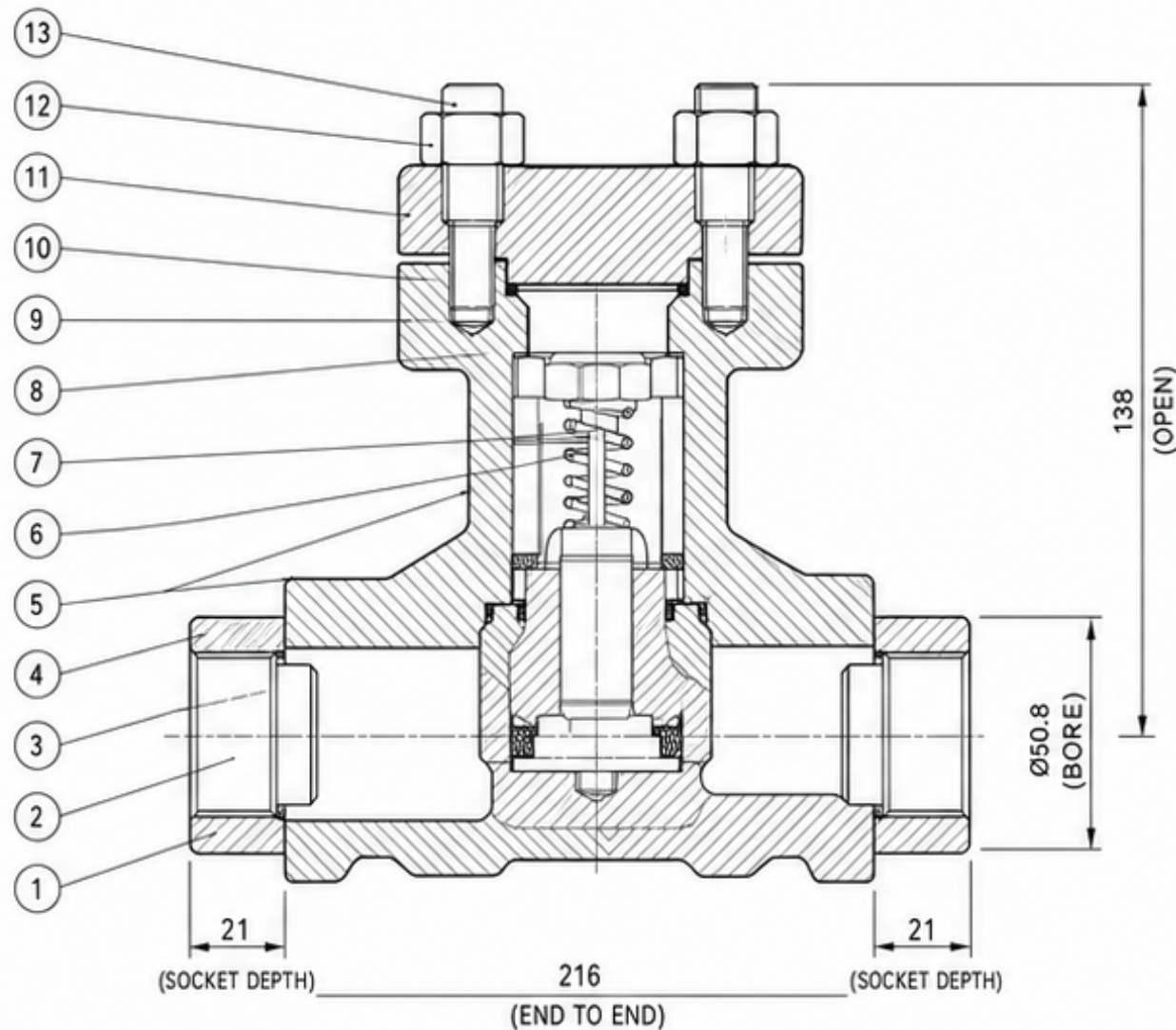
GENERAL ARRANGEMENT DRAWING

NPS 2 (DN50) • ASME Class 800 • Socket Weld Ends • Forged Steel
Piston Check Valve • Bolted Bonnet • API 602

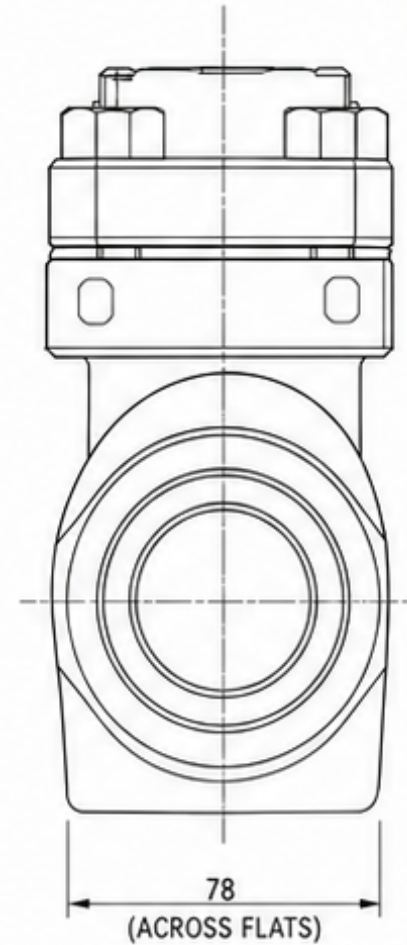
WEBSITE SAMPLE - NOT FOR FABRICATION

Manufacturer-specific body and component
dimensions are subject to approved order GA.

A. SECTION VIEW (FLOW LEFT TO RIGHT)



B. END VIEW



GENERAL NOTES:

- DESIGN AND MANUFACTURE: API 602
- FACE TO FACE: API 602
- END CONNECTION: ASME B16.11
- SOCKET WELD: ASME B16.11
- TEST & INSPECTION: API 598
- MARKING: MSS SP-25
- NACE MR0175 / ISO 15156 (Upon Request)
- WEIGHT & DIMENSIONS ARE FOR REFERENCE ONLY.

SPECIFICATIONS

VALVE TYPE	PISTON CHECK VALVE
DESIGN STANDARD	API 602
PRESSURE RATING	ASME CLASS 800
SIZE	2" (DN50)
END CONNECTION	SOCKET WELD (ASME B16.11)
CONSTRUCTION	FORGED, BOLTED BONNET
BODY MATERIAL	ASTM A105
TRIM MATERIAL	13Cr / STL
SEAT MATERIAL	STELLITE 6
OPERATION	AUTOMATIC
FLOW DIRECTION	LEFT TO RIGHT

MATERIAL LIST

NO.	PART NAME	MATERIAL	ASTM SPEC.	QTY.
13	HEX NUT	CARBON STEEL	A194 2H	4
12	BONNET BOLT	ALLOY STEEL	A193 B7	4
11	BONNET	FORGED STEEL	A105	1
10	BONNET GASKET	SPIRAL WOUND + GRAPHITE	SS316 + GRAPHITE	1
9	PISTON GUIDE	STAINLESS STEEL	A276 410	1
8	SPRING	STAINLESS STEEL	A276 316	1
7	PISTON (DISC)	STAINLESS STEEL	A276 410	1
6	SEAT RING	STELLITE	STELLITE 6	1
5	BODY SEAT	STAINLESS STEEL	A276 410	1
4	BODY	FORGED STEEL	A105	1
3	NAME PLATE	STAINLESS STEEL	A182 F304	1
2	SOCKET WELD INSERT	STAINLESS STEEL	A276 316	2
1	BODY END	FORGED STEEL	A105	2

DIMENSIONS & WEIGHT (REFERENCE)

NOMINAL SIZE	2" (DN50)
PRESSURE RATING	ASME CLASS 800
END TO END (L)	216 mm
HEIGHT OPEN (H)	138 mm
ACROSS FLATS (W)	78 mm
SOCKET WELD BORE (Ød)	50.8 mm
SOCKET DEPTH (EACH END)	21 mm
APPROX. WEIGHT	8.0 kg

PRESSURE - TEMPERATURE RATINGS

TEMPERATURE (°C)	MAX. ALLOWABLE PRESSURE (MPa)
	CLASS 800
-29 ~ 38	20.7
93	17.9
149	15.2
204	13.8
260	12.4
316	10.3
343	9.0

TEST PRESSURE (API 598)

SHELL TEST (WATER)	30.3 MPa
SEAT TEST (WATER)	22.3 MPa
SEAT TEST (AIR)	0.6 MPa
BACK SEAT TEST (AIR)	0.6 MPa

NOTE:

- DIMENSIONS AND MATERIALS SUBJECT TO CHANGE WITHOUT NOTICE.
- THIS DRAWING IS FOR REFERENCE ONLY.
- FOR APPROVED DRAWING, PLEASE REFER TO ORDER DOCUMENT.

DRAWING TYPE

DRAWING TYPE	GA DRAWING
REVISION	0
DATE	28-MAY-2025
SCALE	NTS
DRAWN BY	YKV ENG
CHECKED BY	QA DEPT

MANUFACTURER	CHINA YINKE VALVE CO., LIMITED	VALVE DESCRIPTION API 602 PISTON CHECK VALVE				BODY MATERIAL	ASTM A105	GA DRAWING		REV.
CUSTOMER	CONFIDENTIAL / REDACTED					TRIM MATERIAL	13Cr / STL + STO			0
PROJECT	PUBLIC ENGINEERING EVIDENCE					SEAT MATERIAL	STELLITE 6			
STATUS	WEBSITE SAMPLE - NOT FOR FABRICATION	SIZE	PRESSURE RATING	END CONNECTION	FLOW DIRECTION	OPERATION	AUTOMATIC			SHEET
TAG NO.	----	2" (DN50)	ASME CLASS 800	SOCKET WELD	LEFT TO RIGHT	DRAWING NO.	YKV-CV-800-02-SW-RF-00			1 OF 1