

OA-3PC

3 Piece Flanged Ball Valves – Full Port Design

VOTH's 3 piece flanged ball valves are designed for safe, efficient, and low-maintenance flow control in demanding industrial environments. The swing-out body design enables quick inline maintenance and trim replacement without removing the valve from the pipeline.

Reliable Flow Control for Industrial Applications

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Key Applications

- Chemical processing
- Water & wastewater treatment
- Food and beverage systems
- Pharmaceutical industries
- Oil & gas

Standards

IS/ISO 1729
BS 5351
IS/ISO 17292
ASME B16.10

Key Specifications

Size Range	½" to 12"
Body Material	ASTM A351 Gr.CF8M, WCB optional
Ball/Stem	SS316 or SS304
Seat & Seal	PTFE (standard)
Working Pressure	Class 150/300, PN10-40, JIS 10k/20k
Temperature Range	-20°F (-29°C) to 450°F (232°C)

3 PIECE FLANGED BALL VALVE

Specifications

- Face-to-Face: ANSI B16.10, DIN 3202, JIS B2002
- Flange: ANSI B16.5, DIN 2632-2635, JIS B2212/2214
- Testing: API 598, ISO 5208, JIS B2003

Safety & Options

- Anti-blowout stem design
- Lockable handle (optional)
- Anti-static device (optional)
- Fire-safe design per API 607 (optional)
- Live-loading stem packing (optional)
- Multiple O-ring stem sealing (optional)

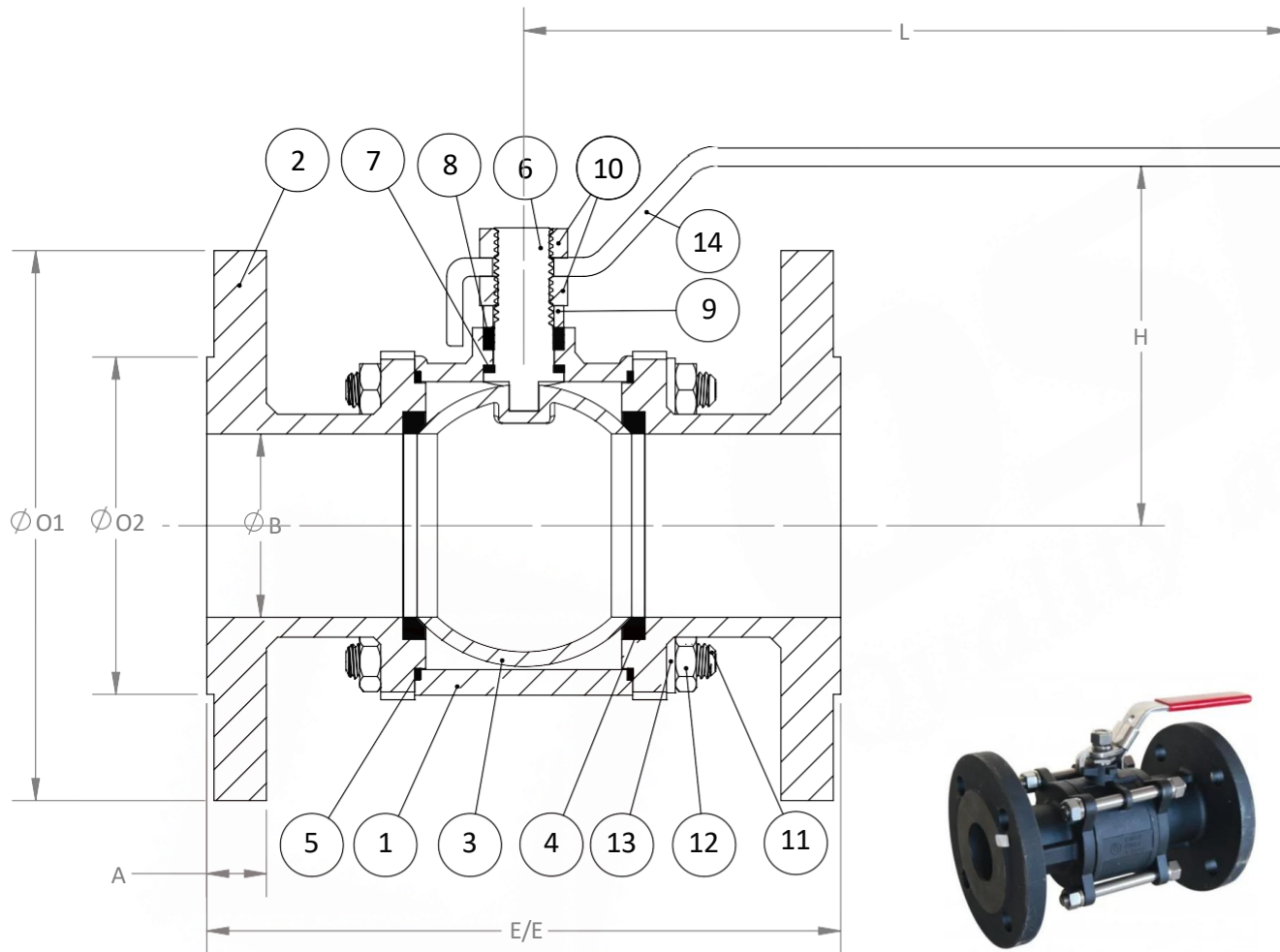


Mounting & Maintenance

- ISO 5211 mounting pad for actuator compatibility
- 3-piece swing-out body design for inline service
- Full port design ensures minimal flow resistance

Contact us for customized solutions, automated valve assemblies.

1		2			3			4		
SIZES	E/E	A	O1	O2	B	H	L	PCD	HOLE DIA.	NO OF HOLES
TLRNC.	±2	+0.1	+0.5	+0.5	-	APPROX	APPROX	-	-	-
15	108	10	90	35	12.5	65	145	60.3	15.9	4
20	117	10.9	100	43	19	68	145	69.9	15.9	4
25	127	11.6	110	52	25	78	180	73.4	16	4
40	165	14.7	125	73	38	88.5	240	98.5	16	4
50	178	16.3	150	92	50	98	240	120.7	19.1	4
65	190	18	180	104	63	121	300	139.7	19.1	4
80	203	19.5	190	127	75	132	300	152.4	19.1	4
100	229	24.3	230	158	100	151.5	385	190.5	19.1	8



5	6
- DESIGN STANDARD :-IS/ISO 17292 - TESTING STANDARD :- API598 IS/ISO 17292 - FACE TO FACE STANDARD :- ASME B16.10 - END CONNECTION :- FLANGE SUITS TO ASME B16.5	

HYDRO TEST	
BODY TEST	32 Kg/cm2
SEAT TEST	22.5 Kg/cm2

PNEUMATIC TEST	
SEAT TEST	6 Kg/cm2

NOTES / REMARKS

UP TO 25MM BALL WILL BE SOLID AND
ABOVE SIZES IT WILL BE HOLLOW BALL

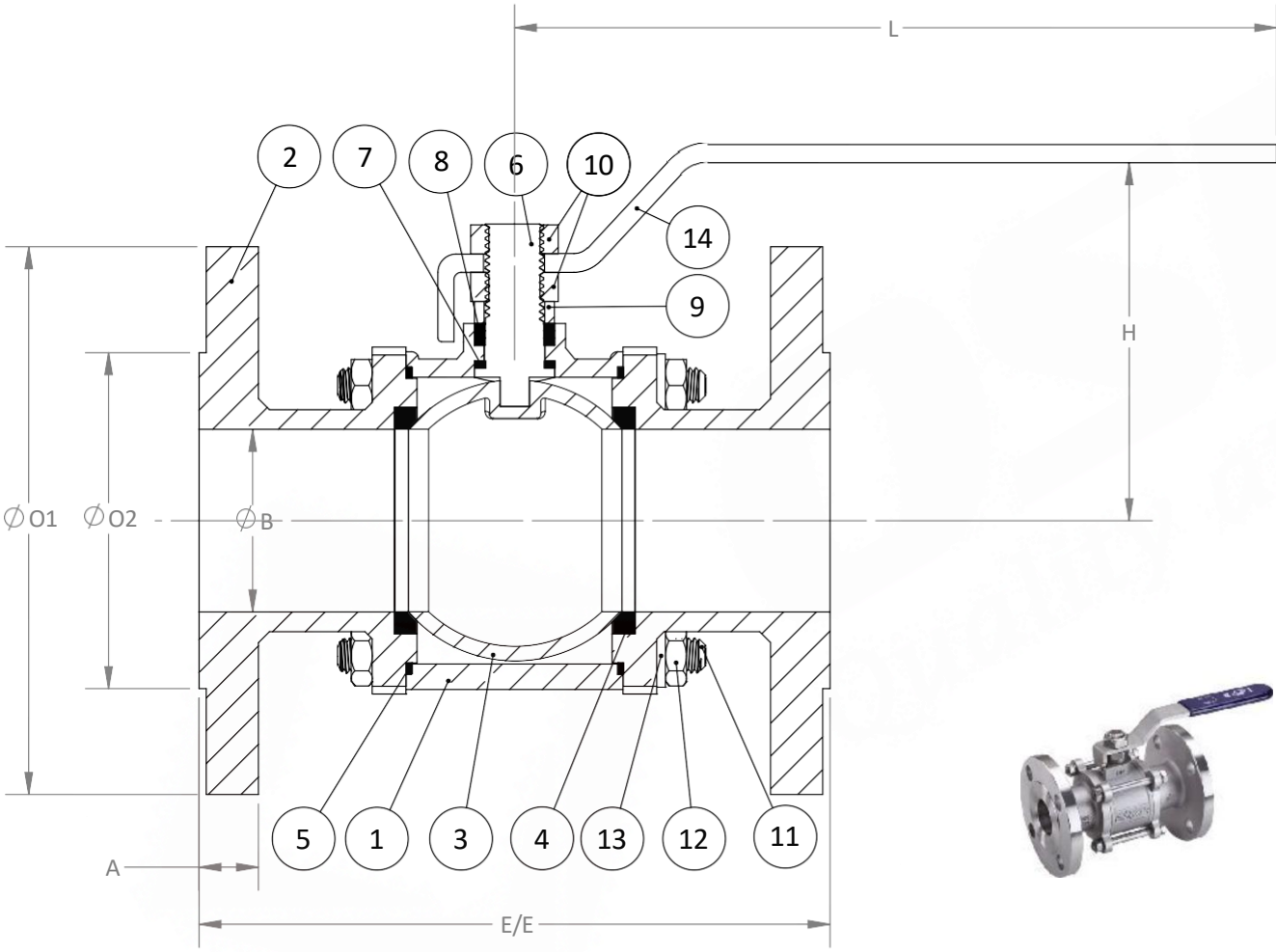
14	HANDLE	MS
13	SPRING WASHER	MS
12	STUD NUT	MS
11	STUD	MS
10	STEM NUT & LEVER NUT	MS
9	GLAND BUSHING	ASATM A276 TYPE 304
8	STEM SEAL	PTFE
7	THRUST WASHER	PTFE
6	STEM	ASTM A276 TYPE 304
5	BODY SEAL	PTFE
4	SEAT	PTFE
3	BALL	ASTM A351 Gr. CF8
2	FLANGE	ASTM A216 Gr. WCB
1	BONNET	ASTM A216 Gr. WCB
ITEM NO.	PART NUMBER	DESCRIPTION

All dimensions are in mm		APP.	NIRAJ
Scale:- Not to scale		DATE	20-3-2021
TITLE :- 3PC FE ASSEMBLY		CHK.	ROHIT
		DATE	19-03-2021
DRG. NO. :- O.A.3PCFE.15-100.H1.B1.M3.0031.R1		DRN	DHARMIK
		DATE	18-03-2021

VOTH HYDROMATICS **VOTH**

We reserve all rights to make any changes due to continuous improvement in process without any prior notice.

1		2			3			4			5		6	
SIZES	E/E	A	O1	O2	B	H	L	PCD	HOLE DIA.	NO OF HOLES	DESIGN STANDARD :-IS/ISO 17292 TESTING STANDARD :- API598 IS/ISO 17292 FACE TO FACE STANDARD :- ASME B16.10 END CONNECTION :- FLANGE SUITS TO ASME B16.5			
TLRNC.	±2	+0.1	+0.5	+0.5	-	APPROX	APPROX	-	-	-	HYDRO TEST			
15	108	10	90	35	12.5	65	145	60.3	15.9	4	BODY TEST	32 Kg/cm2		
20	117	10.9	100	43	19	68	145	69.9	15.9	4	SEAT TEST	22.5 Kg/cm2		
25	127	11.6	110	52	25	78	180	73.4	16	4	PNEUMATIC TEST			
40	165	14.7	125	73	38	88.5	240	98.5	16	4	SEAT TEST	6 Kg/cm2		
50	178	16.3	150	92	50	98	240	120.7	19.1	4	NOTES / REMARKS			
65	190	18	180	104	63	121	300	139.7	19.1	4	UP TO 25MM BALL WILL BE SOLID AND ABOVE SIZES IT WILL BE HOLLOW BALL			
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100	229	24.3	230	158	100	151.5	385	190.5	19.1	8				



14	HANDLE	SS 202
13	SPRING WASHER	SS
12	STUD NUT	SS 304
11	STUD	SS 304
10	STEM NUT & LEVER NUT	SS 304
9	GLAND BUSHING	ASATM A276 TYPE 304
8	STEM SEAL	PTFE
7	THRUST WASHER	PTFE
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VOTH

HYDROMATICS

VOTH

R3				PROJECT	DATE:-
R2				CUSTOMER:-	
R1				INQUIRY NO:-	
REV.	DESCRIPTION	DATE	APP.BY	P.O. NO:-	

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