



PMP PRECISION VALVE CO. LTD.









#### **Features**

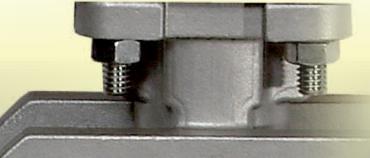
- Full Port design
- Compact body
- Investment cast body
- ISO 5211 direct mounting pad for actuation
- Blow out proof stem with anti static device
- Maintenance free, live loaded triple stem sealing, in compliance with TA-Luft low emission standards.



- PMP offers a wide selection of resilient seats for bi - directional zero leakage applications:
  - PTFE
  - Cavity filled PTFE
  - RPTFE
  - Carbon filled PTFE
  - Stainless steel filled PTFE
  - TFM 1600
  - MG1241
  - Delrin
  - Peek
  - UHMW

Please contact your PMP distributor for assistance in selecting the correct material for your application







### **Design Standards**

Construction: One-Piece Investment Cast

Construction, Full Port.

Size Range: 1/2" to 6" (DN15 to DN 150).

Pressure Rating: ANSI 150, ANSI 300.

Valve Material:

Standard:

ASTM A351 Gr. CF8M / DIN 1.4408. WCB, 316L S/S, Titanium, Duplex S/S, Hastelloy C....etc. Options:

Seat Material:

Standard : RTFE

Options:

TFM 1600, PTFE, Carbon filled PTFE, Delrin, UHMWPE, 50/50 S/S filled PTFE, Metal Seats....and others.

Inspection and Test: API 598, BS6755 Part 1.

Material Certificate: EN 10204 - 3.1.

**Quality System:** ISO 9001.

**NACE MR - 0175:** 

The rugged, high performance Series 99 ball valves meet requirement for oil and gas pipeline service and meet NACE specification MR - 0175 for sour gas.

Approvals:



0035 PED/97/23/EC Category III Module H



TA-Luft



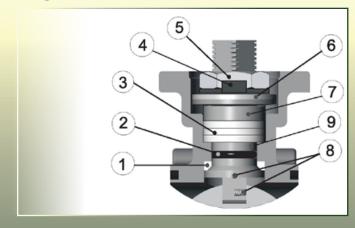
II 3 GD ATEX 94/9/EC





**TA-Luft** 

### Stem Packing



#### 1. Pyramidal Stem with Stem Seal

First stage of defense against leakage. The 45° slope of he stem accompany the stem seal effectively blocks all leak path during rotation.

#### 2. O-Ring Stem Packing

Second stage of defense against leakage. Enhances stem seal and maintains stem alignment, provides extra longer service life.

#### 3. V-Ring Stem Packing

Third stage of defense against leakage. Multiple layers of V-Ring Chevron Packing expands side way as it is being compressed, blocking all air pockets to prevent leak path.

#### 4. Lock Saddle

Stabilizes the entire stem nut to keep it from loosening during operation.

#### 5. Stem Nut

Compress the entire stem system to enable blocking of leakage.

#### 6. Belleville Washers

Automatically compress the seals to adjust for wear, pressure, and temperature fluctuations.

#### 7. Gland

Made of Stainless steel, equally distributes the compressive force on the packing and seal.

#### 8. Anti-Static Device

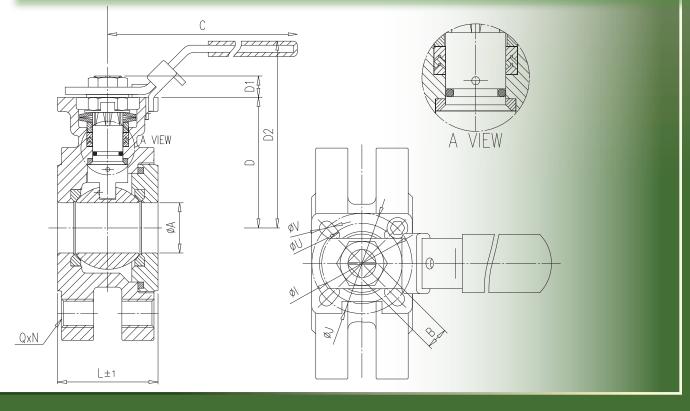
Stem-to-Ball and Stem-to-Body as standard.

#### 9. Super Smooth Stem Finish

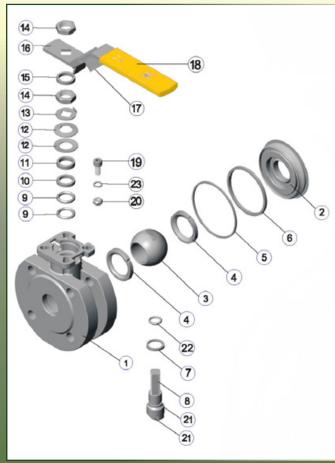
Reduces seal friction and operating torque, prolongs sercie life.



	Size	ΦА	В	С	D	D1	D2	ΦΙ	ΦJ	L	N	Q	ΦU	ΦV	ISO 5211
mm	DN15	15	9	139	48.7	7.0	85	36	42	40.8	4	1/2-	6.0	6	F03/F04
in	0.50	0.50	0.36	5.48	1.92	0.28	3.35	1.42	1.66	1.61	0.16	13UNC	0.24	0.24	
mm	DN20	20	9	139	53.7	8.0	90	36	42	44.0	4	1/2-	6.0	6	F03/F04
in	0.75	0.75	0.36	5.48	2.12	0.32	3.55	1.42	1.66	1.74	0.16	13UNC	0.24	0.24	
mm	DN25	25	11	165	65.0	12.0	104	40	50	50.0	4	1/2-	6.0	7	F04/F05
in	1.00	1.00	0.44	6.50	2.56	0.48	4.10	1.58	1.97	1.97	0.16	13UNC	0.24	0.28	
mm	DN32	32	11	165	77.0	11.3	116	40	50	60.0	4	1/2-	6.0	7	F04/F05
in	1.25	1.25	0.44	6.50	3.04	0.45	4.57	1.58	1.97	2.37	0.16	13UNC	0.24	0.28	
mm	DN40	38	14	215	85.5	15.5	135	50	70	65.0	4	1/2-	7.5	9	F05/F07
in	1.50	1.50	0.56	8.47	3.37	0.62	5.32	1.97	2.76	2.56	0.16	13UNC	0.3	0.36	
mm	DN50	50	14	215	93.0	16.0	142	50	70	80.0	4	5/8-	7.5	9	F05/F07
in	2.00	2.00	0.56	8.47	3.67	0.63	5.60	1.97	2.76	3.15	0.16	11UNC	0.3	0.36	
mm	DN65	65	17	263	109.7	15.8	168	70	102	110.0	4	5/8-	10.0	12	F07/F10
in	2.50	2.50	0.67	10.40	4.32	0.63	6.62	2.76	4.02	4.34	0.16	11UNC	0.4	0.48	
mm	DN80	80	17	313	119.5	16.0	178	70	102	120.0	4	5/8-	10.0	12	F07/F10
in	3.00	3.00	0.67	12.30	4.71	0.63	7.01	2.76	4.02	4.73	0.16	11UNC	0.4	0.48	
mm	DN100	100	17	344	132.7	17.8	191	70	102	150.0	8	5/8-	10.0	12	F07/F10
in	4.00	4.00	0.67	13.60	5.23	0.71	7.52	2.76	4.02	5.91	0.32	11UNC	0.4	0.48	
mm	DN150	150	2	750	210	28.5	292	125	140	240	8	3/4-	14.0	18	F12/F14
in	6.00	6.00	0.08	29.50	8.28	1.13	11.50	4.93	5.52	9.45	0.32	10UNC	0.56	0.71	







No.	Part Name	Material	Qty
1	Body	1.4408 / GS-C25	1
2	End Cap	1.4408 / GS-C25	1
3	Ball	SUS316	1
4	Seat	PTFE / RTFE	2
5	Joint Gasket	PTFE	1
6	Joint Gasket	PTFE	1
7	Stem Seal	RPTFE	1
8	Stem	SUS316	1
9	Stem Packing	PTFE	*
10	Stem Packing	25% Glass Fiber Filled - PTFE	1
11	Gland Bush	SUS304	1
12	Belleville Washer	SUS301	2
13	Lock Saddle	SUS304	1
14	Stem Nut	SUS304	2
15	Stem Washer	SUS304	1
16	Handle	SUS304	1
17	Locking Device	SUS304	1
18	Handle Sleeve	Vinyl	1
19	Stop Pin	SUS304	1
20	Pin Nut	SUS304	1
21	Antistatic - Device	SUS316	2
22	O-Ring	Viton	1
23	Washer	SUS304	1

\* For 1/2"-2" 2pcs For 21/2"-4" 3pcs



#### **Accessories**



#### TSM Unit - Adds extra safety and long service life

The TSM unit designed for possible fugitive safe and clean environment, and provides a secondary stem seal for the valve stem, porlongs service life.

Function as stem extension for insulation.

Cast bosses for monitoring device.



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