BALL VALVES - FLOATING SMALL BORE

SHORT VERSION

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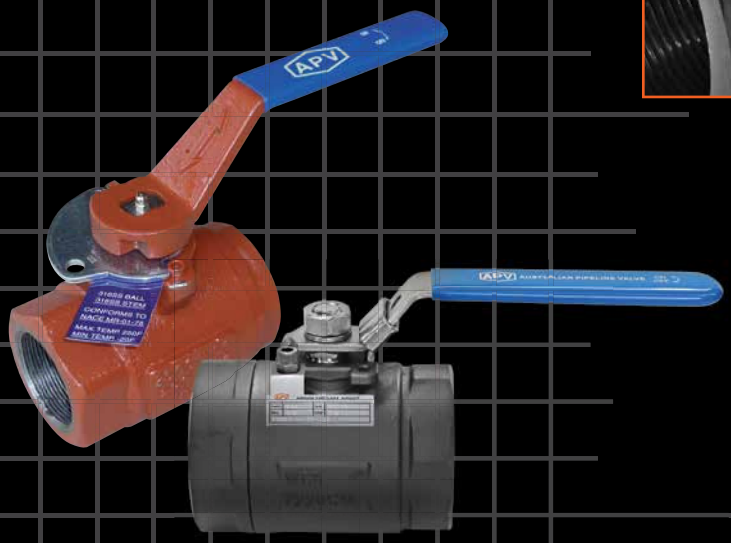
APV
AUSTRALIAN PIPELINE VALVE®



DNV

ISO 10497, API 607
Firesafe Certified

www.australianpipelinevalve.com.au

QUALITY VALVE MANUFACTURER

QUALITY COMMITMENT

Quality is Our First Priority.

Consistent product quality and a proven track record makes Australian Pipeline Valve a dependable choice where total reliability is the number one concern.

Since its founding, APV's philosophy has been focused on quality. Our valves are manufactured in full compliance to worldwide standards (such as ASME/ANSI, API, EN, ISO, BS, AS).

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FIRESAFE & FUGITIVE EMISSIONS CERTIFICATES

Australian Pipeline Valve is one of a small number of companies in the world to hold firesafe certification to the latest 5th & 6th edition of API 607 as well as the latest edition of API 6FA.

API 6FA, API 607 5th Edition
ISO 10497 Firesafe Certified

AS 4617, AS 4629

ISO 15848-1 Class CO2
Fugitive Emission Certified

FS900 UNIBODY CLASS 800 SERIES BALL VALVE

API 6FA, API607 5th Edition
ISO 10497 Firesafe Certified

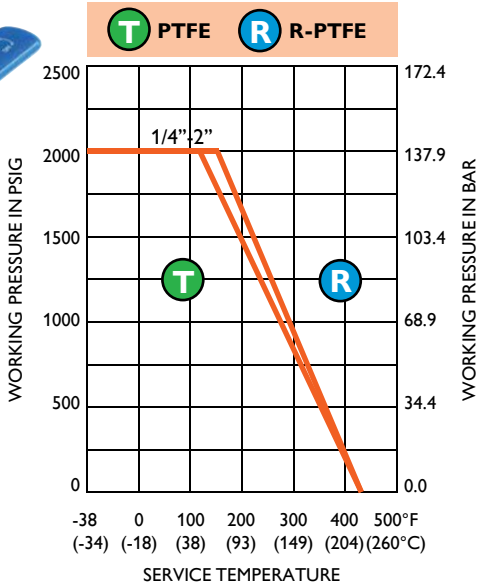
FEATURES

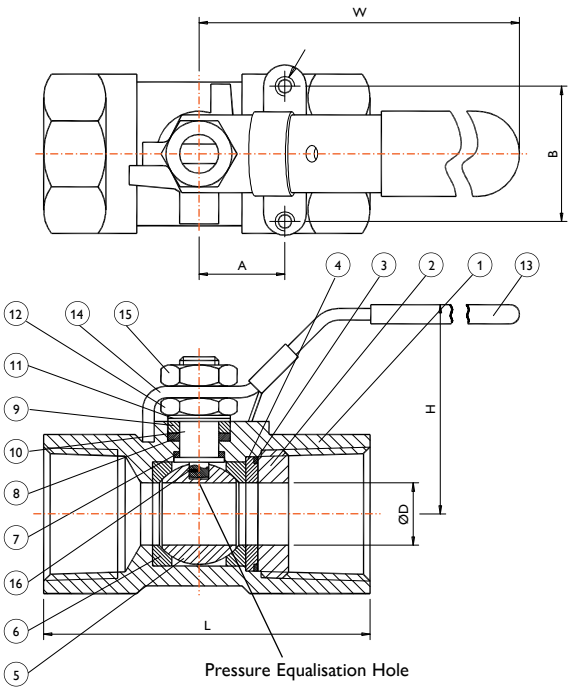
- 2000psi CWP.
- Single Piece design.
- Reinforced TFE seats and stuffing box ring.
- NACE MR-01-75 available.
- Compact.
- Firesafe Certified API 607 5th edition.
- Reinforced TFE seats increase durability.
- Separating packing nut and handle nut ensures NO STEM LEAKAGE even when the handle is removed.
- Belleville washer assures leak-free seal on cool-down & as packing wears.
- Bottom-loaded blow-out proof stem.
- Basic design complied with ANSI B16.34 and MSS SP-110.
- NPT threaded ends complied with ANSI B 1.20.1.
- BSP threaded ends complied with BS21.
- Graphite gasket & stem packing prevent post-fire external leakage.
- Post-fire metal-to-metal seal prevents internal leakage after fire.
- Tested according to MSS SP-110/API 598.
- Ball includes Pressure Equalisation Hole to prevent trapped pressure in body cavity which prevents seat damage due to thermal cycling.

MATERIALS LIST

No.	Parts	Stainless	Carbon Steel
1	Body	ASTM A351-CF8M/316	ASTM A216-WCB/A105
2	Retainer Nut	ASTM A351-CF8M/316	ASTM A216-WCB/A108
3	Gasket	Graphite	Graphite
4	Seat Retainer	ASTM A351-CF8M/316	ASTM A216-WCB/A108
5	Ball	ASTM A351-CF8M/316	ASTM A351-CF8M/316
6	Seat	Reinforced TFE	Reinforced TFE
7	Thrust Washer	PTFE	PTFE
8	Stem Packing	Graphite	Graphite
9	Gland	AISI 304/316	AISI 304/316
10	Stem	ASTM A276-316	ASTM A276-304
11	Belleville Washer	AISI 301	AISI 301
12	Packing Nut	AISI 304	AISI 304
13	Handle Cover	PVC	PVC
14	Handle	AISI 304	Zinc Plated Steel
15	Handle Nut	AISI 304	AISI 304
16	Anti-Static Device	AISI 304	AISI 304

P-T RATINGS





OPTIONS

L Locking Device
M Tapped Mounting Pad
V Vented Ball

DIMENSIONS

Size		øD		L		A		B		H		W		M	Weight
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	(OPTION)	(Kg)
1/4"	8	0.36	9.2	2.64	67	0.50	12.7	1.12	28.5	1.81	46	4.33	110	10-24UNC	0.3
3/8"	10	0.36	9.2	2.64	67	0.50	12.7	1.12	28.5	1.81	46	4.33	110	10-24UNC	0.3
1/2"	15	0.36	9.2	2.64	67	0.50	12.7	1.12	28.5	1.81	46	4.37	110	10-24UNC	0.3
3/4"	20	0.49	12.5	2.80	71	0.50	12.7	1.12	28.5	1.97	50	4.37	110	10-24UNC	0.4
1"	25	0.63	16	3.31	84	0.87	22.1	1.37	34.8	2.36	60	5.51	140	10-24UNC	0.7
1-1/4"	32	0.79	20	3.70	94	0.87	22.1	1.37	34.8	2.56	65	5.55	141	10-24UNC	1.1
1-1/2"	40	0.96	24.5	3.94	100	0.93	23.6	1.50	38.1	2.83	72	6.3	160	1/4-20UNC	1.3
2"	50	1.26	32	4.65	118	0.93	23.6	1.50	38.1	3.07	78	6.3	160	1/4-20UNC	2.0

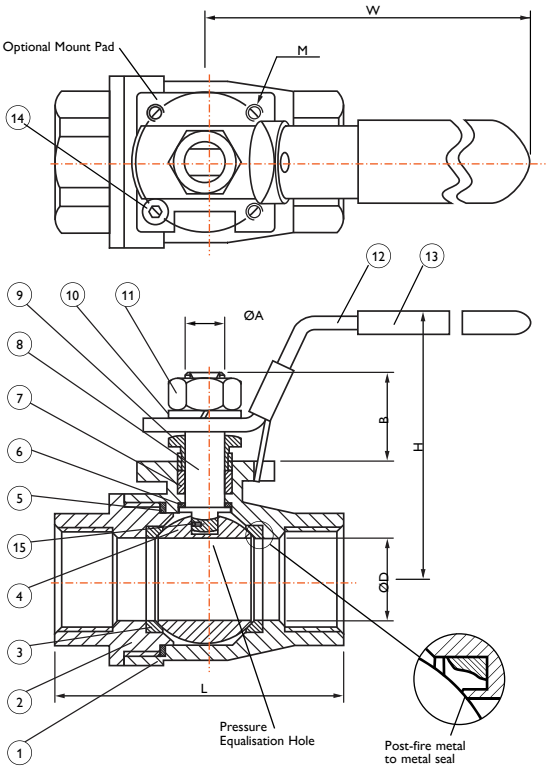
This catalogue is general in it's nature and design and can vary at any time. This catalogue is to be used as a guide only.

2 PIECE BODY 1000 PSI FS660 SERIES BALL VALVE

API 6FA, API 607 5th Edition
ISO 10497 Firesafe Certified

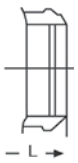
FEATURES

- 1000 PSI CWP
- Reinforced TFE seats increase durability. Adjustable packing gland.
- Bottom-loaded blow-out proof stem.
- Low operating torque to reduce automation costs.
- Optional mounting pad complies with ISO 5211 for ease and interchangeability of actuation.
- Basic design complies with ANSI B16.34 & MSS SP-110.
- NPT threaded ends complies with ANSI B 1.20.1.
- BSP threaded ends complies with BS21 (ISO 7-1 RC). Buttweld ends also available.
- Graphite gasket & stem packing prevent post-fire external leakage.
- Tested according to MSS SP-110/API 598.



MATERIALS LIST

No.	Parts	Stainless	Carbon Steel
1	Body	ASTM A351 CF8M	ASTM A216-WCB
2	End Cap	ASTM A351 CF8M	ASTM A216-WCB
3	Seat	PTFE/RPTFE	PTFE/RPTFE
4	Ball	ASTM A351 CF8M/316	ASTM A351 CF8M/316
5	Gasket	Graphite	Graphite
6	Thrust Washer	PTFE	PTFE
7	Stem Packing	Graphite	Graphite
8	Stem	ASTM A276-316	ASTM A276-304
9	Gland	AISI 304	AISI 304
10	Spring Washer	AISI 304	AISI 304
11	Handle Nut	AISI 304	AISI 304
12	Handle	AISI 304	Zinc Plated Steel
13	Handle Cover	PVC	PVC
14	Stop Screw	AISI 304	AISI 304
15	Anti-Static Device	AISI 304	AISI 304
16	Stem O-Ring	Viton	Viton

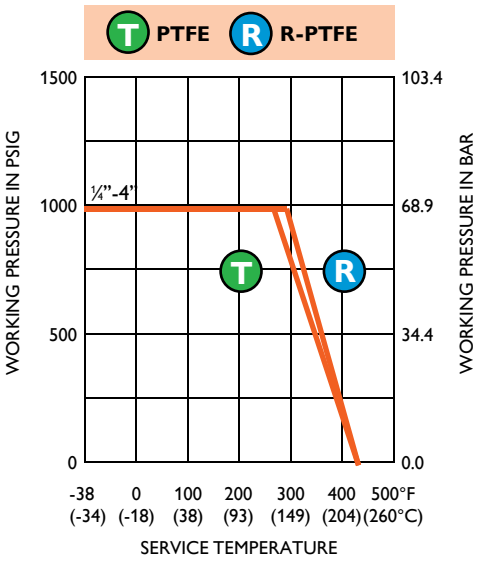


Buttweld Ends

OPTIONS

L Locking Device
V Vented Ball
P Equipped with Pneumatic Actuator
M Mounting Pad

P-T RATINGS



DIMENSIONS

Size		ØD	L	I	K	ØG	H	W	M
in	mm	mm	mm	mm	mm	mm	mm	mm	mm
1/4	8	11.6	54				50	96	
3/8	10	12.7	60				50	96	
1/2	15	15	63	5	12	36	62	100	M5
3/4	20	20	73	6	13.5	36	68	121	M5
1	25	25.4	85	8	18	42	80	153	M5
1-1/4	32	32	97/102	8	18	42	86	153	M5
1-1/2	40	38	108/115	8	18	50	86	180	M6
2	50	50	124/134	8	18	50	95	180	M6
2-1/2	65	65	163/168	12	29	70	132	265	M8
3	80	80	185/191	12	29	70	143	265	M8
4	100	100	231/260	*	*	*	180	*	*

* For 4" refer to separate drawing

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2 PIECE BODY CLASS 800/900 FS660 SERIES BALL VALVE

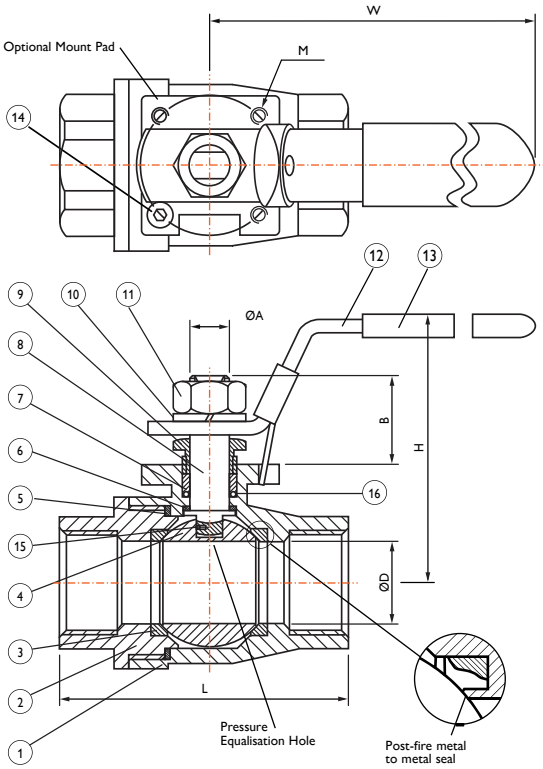
FEATURES

- 2000 psi CWP (800 Class) with RPTFE seats. (Up to 50NB)
- 2220 psi CWP (900 Class) with Delrin/RPTFE seats. (Up to 50NB)
- 1500 psi CWP 65NB to 100NB (seal welded body) with Delrin or RPTFE seat.
- Reinforced TFE seats increase durability.
- Adjustable packing gland.
- Bottom-loaded blow-out proof stem.
- Low operating torque to reduce automation costs.
- Optional mounting pad complies with ISO 5211 for ease and interchangeability of actuation.
- Basic design complies with ANSI B16.34 & MSS SP-110.
- NPT threaded ends complies with ANSI B 1.20.1.
- BSP threaded ends complies with BS21 (ISO 7-1 RC).
- Graphite gasket & stem packing prevent post-fire external leakage.
- Tested according to MSS SP-110/API 598.
- Ball includes Pressure Equalisation Hole to prevent trapped pressure in body cavity which prevents seat damage due to thermal cycling.

API 6FA, API 607 5th Edition
ISO 10497 Firesafe Certified

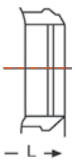
MATERIALS LIST

No.	Parts	Stainless	Carbon Steel
1	Body	ASTM A351-CF8M/316	ASTM A216-WCB/A105
2	End Cap	ASTM A351-CF8M/316	ASTM A216-WCB/A105
3	Seat	RPTFE / Delrin	RPTFE / Delrin
4	Ball	ASTM A351-CF8M/316	ASTM A351-CF8M/316
5	Gasket	Graphite	Graphite
6	Thrust Washer	PTFE	PTFE
7	Stem Packing	Graphite	Graphite
8	Stem	ASTM A276-316	ASTM A276-304
9	Gland	AISI 304	AISI 304
10	Spring Washer	AISI 304	AISI 304
11	Handle Nut	AISI 304	AISI 304
12	Handle	AISI 304	Zinc Plated Steel
13	Handle Cover	PVC	PVC
14	Stop Screw	AISI 304	AISI 304
15	Anti-Static	AISI 304	AISI 304
16	Stem O-Ring	Viton	Viton

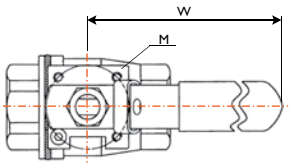


OPTIONS

K Locking Device
V Vented Ball

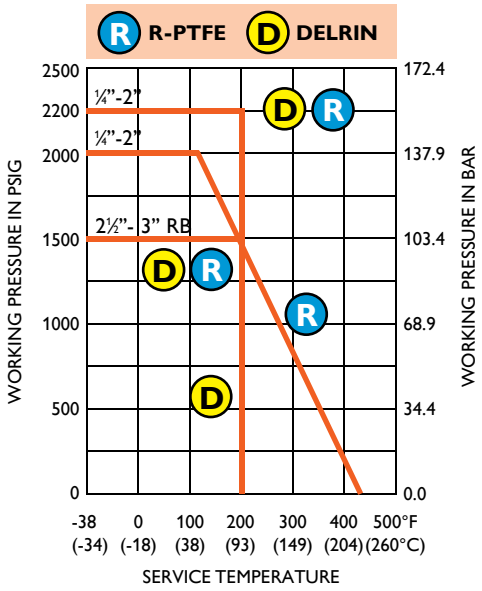


Buttweld Ends



Option:- Seal welded body version also available

P-T RATINGS



DIMENSIONS

Size		ØD		L		ØJ		K		ØG*2		H		W		M
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	mm
1/4"	8	0.43	11	2.12/2.32	54/58	0.31	8	0.59	8	-	-	2.13	54	4.7	120	M5
3/8"	10	0.49	12.5	2.36/2.40	58/61	0.31	8	0.59	8	-	-	2.13	54	4.7	120	M5
1/2"	15	0.59	15	2.40/2.52	61/64	0.31	8	0.47	12	1.42	36	2.44	62	3.94	100	M5
3/4"	20	0.79	20	2.87/3.11	73/79	0.39	10	0.53	13.5	1.42	36	2.68	68	4.76	121	M5
1"	25	1.00	25.4	3.35/4.53	85/115	0.47	12	0.71	18	1.65	42	3.15	80	6.02	153	M5
1-1/4"	32	1.26	32	3.78/4.49	96/114	0.47	12	0.71	18	1.65	42	3.39	86	6.02	153	M5
1-1/2"	40	1.50	38	4.29/4.53	109/115	0.55	14	0.71	18	1.97	50	3.39	86	7.09	180	M6
2" x 1-1/2"	50 x 40	1.50	38	-	-	0.55	14	0.71	18	1.97	50	3.39	86	7.09	180	M6
2"	50	1.97	50	5.11/5.28	130/134	0.55	14	0.71	18	1.97	50	3.74	95	7.09	180	M6
2-1/2"	65	2.56	65	6.61/7.28	168/185	0.79	20	1.14	29	2.76	70	5.20	132	10.43	265	M8
3" x 2-1/2"	80 x 65	2.56	65	7.28/8.66	185/220	-	-	1.14	29	-	-	7.24	184	13.78	350	-

* 2 1/2" to 3" see separate drawing and separate pressure/temperature chart. *2 Mount pad is optional and dimensions can vary.

This catalogue is general in it's nature and design and can vary at any time. This catalogue is to be used as a guide only.

2 PIECE BODY CLASS 600/800 HIGH CYCLE FS660 DIRECT MOUNT BALL VALVE

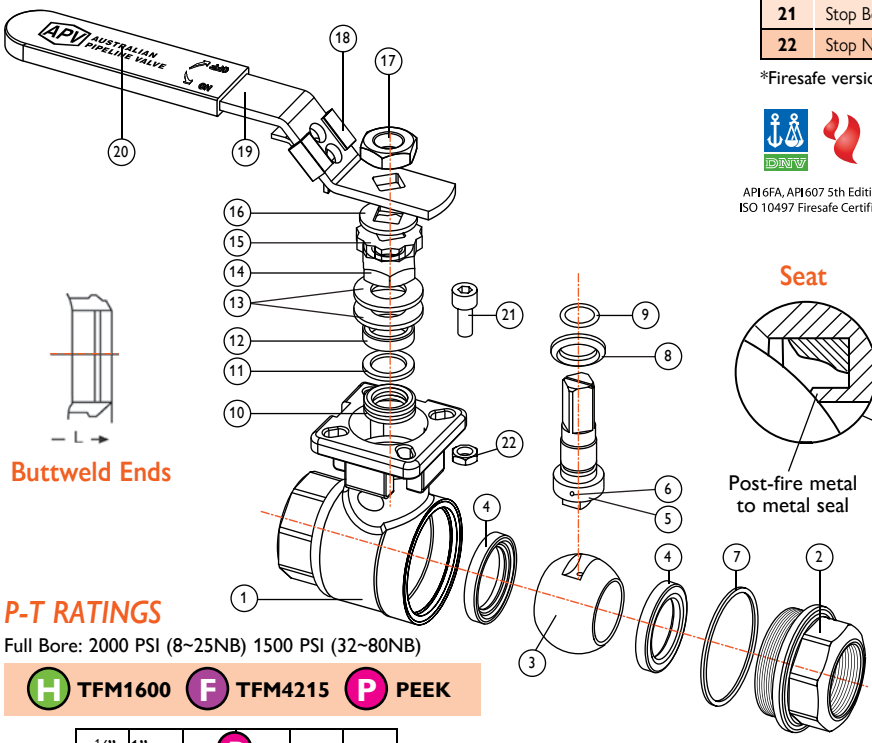
FEATURES

- 2000PSI (13790 kPa) 8~25NB.
  1500PSI (10342 kPa) 32~80NB.
- Full Port DN 8NB~80NB (1/4"- 3").
- Longlife for Actuated Valve Applications.
- Belleville Washer Set for Automatic Compression of Stem Sealing.
- Blow-Out Proof Stem.
- Graphite Gasket & Stem Packing Prevents Post-fire External Leakage.
- Tested according to API 598.
- Direct Mount Pad (ISO 5211).
- TA Luft Fugitive Emission Compliant.
- Precision Investment Heavy 2 Piece Cast Body.
- Available in Carbon Steel or Stainless Steel.
- Casting Approved by TUV AD 2000-Merkblatt W0.
- Various End Connections Available (NPT, ISO 7/1, ISO 228/1, BSP, DIN 2999, DIN 259, etc.).
- Basic design complies with ANSI B16.34 & MSS SP-110.
- Ball includes Pressure Equalisation Hole to prevent trapped pressure in body cavity which prevents seat damage due to thermal cycling.

MATERIALS LIST

No.	Part Name	Quantity	Material
1	Body	1	WCB/CF8M
2	End Cap	1	WCB/CF8M
3	Ball	1	316/CF8M
4	Ball Seat	2	PTFE/TFM1600/TFM4215
5	Stem	1	SUS316
6	Antistatic Device	1	SUS316
7	Body Gasket	1	PTFE/TFM1600/Graphite*
8	Taperseal Stem Seal	1	PTFE/TFM1600/RTFE
9	O-Ring	1	FKM
10	Stem Packing Set	2 or 4	PTFE V- Rings or Graphite*
11	Bushing	2	50% SS+50% PTFE
12	Gland	1	SUS316
13	Belleville Washers	2	SUS301
14	Stem Nut	1	A194-8
15	Stop-Lock Cap	1	SUS304
16	Handle Gland	1	SUS304
17	Handle Nut	1	A194-8
18	Lock Device	1	SUS304
19	Handle	1	SUS304
20	Handle Sleeve	1	Vinyl Plastic
21	Stop Bolt	1	A2-70/SUS304
22	Stop Nut	1	A2-70/SUS304

*Firesafe version



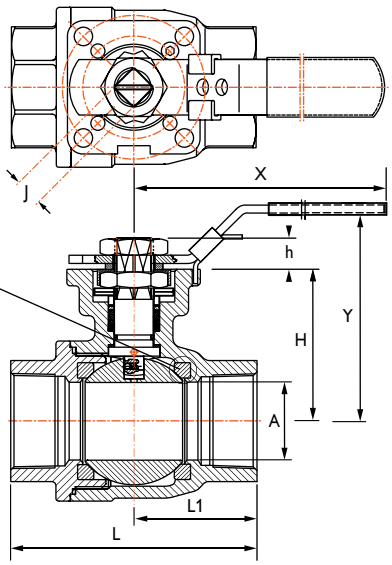
Buttweld Ends

API 6FA, API 607 5th Edition
ISO 10497 Firesafe Certified

Seat

Post-fire metal to metal seal

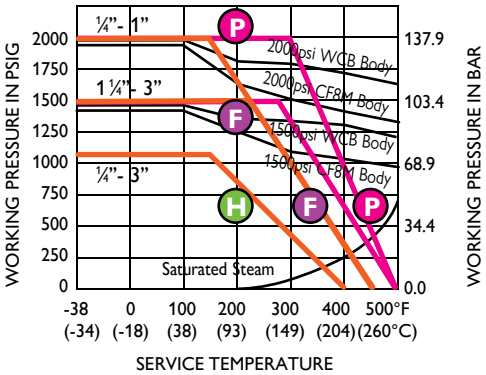
Direct Mount Pad



P-T RATINGS

Full Bore: 2000 PSI (8~25NB) 1500 PSI (32~80NB)

H TFM1600 F TFM4215 P PEEK



DIMENSIONS & TORQUE (MM & NM)

Size	8	10	15	20	25	32	40	50	65	80
	1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"
A	10.6	12.7	15.0	20.0	25.0	32.0	38.0	50.0	63.5	76.0
h	9.0	9.0	9.0	9.0	11.0	11.0	14.0	14.0	17.0	17.0
H	43.1	43.1	43.1	50.7	58.5	63.0	73.5	83.0	102.3	110.7
L	62	62	75	80	90	110	120	140	185	205
L1	29.0	29.0	34.5	37.0	45.0	51.0	60.0	70.0	92.5	102.5
J	9	9	9	9	11	11	14	14	17	17
X	147	147	147	147	177	177	197	197	267	267
Y	74	74	74	82	90	94	107	117	151	160
Torque Nm	7	8	8	9	16	26	37	55	85	146

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2 PIECE BODY CLASS 900 & 1500 FS660 SERIES BALL VALVE

API 6FA, API 607 5th Edition
ISO 10497 Firesafe Certified

FEATURES

- ANSI 900 (2200psi) and ANSI 1500 (3700psi)
- API 3000 also available.
- Graphite stem packing.
- Blow-out-proof stem design.
- RTFE and Devlon seats.
- Bolted adjustable packing gland.
- Heavy duty handles.
- Reg. Port and Full Port available.
- NACE MR-01-75 can be supplied.
- Fire safe design API 607 & API 6FA.
- Locking Kits available
- Heavy construction.
- Enlarged bottom-loaded blow-out proof stem.
- Special design of gasket ensures NO LEAKAGE between body & cap.
- Basic design complies with ANSI B16.34 and MSS SP-110.
- NPT threaded ends complies with ANSI B1.20.1.
- Ball includes Pressure Equalisation Hole to prevent trapped pressure in body cavity which prevents seat damage due to thermal cycling.

CLASS 900 - 2220 PSI WOG
Max Working pressure: 153 bar a 38°C - 2220 psi @ 100°F seat RPTFE/Delrin

CLASS 1500 - 3700 PSI WOG
Max Working pressure: 255 bar a 38°C - 3700 psi @ 100°F Seat Nylon/Delrin

API 3000 - 3000 PSI WOG
Max Working pressure: 210 bar a 38°C - 3000 psi @ 100°F Seat Nylon/Delrin

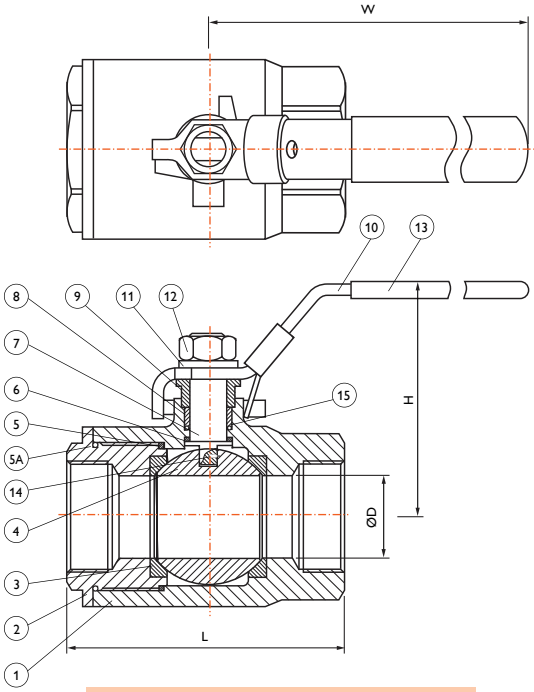
Other special materials are available for seats:
PTFE + 316; Carbon Graphite; Vespel, Delrin, PEEK
Technical information upon request.

STANDARD EXECUTION

- Fire safe.
- Threaded ends: ANSI B1.20.1 - API 6A / UNI ISO 7.1.
- Extended Socket Weld - Butt weld ends also available.
- Materials: A105 / WCB - AISI 304/L - AISI 316/L.
- Gaskets: PTFE, Graphite
- Identification: Valve size - Rating - Material

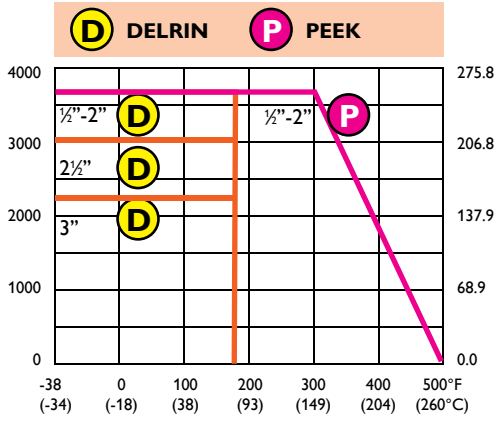
MATERIALS LIST

No.	Description	Stainless Steel	Carbon Steel
1	Body	ASTM A351 CF8M	ASTM A216 WCB
2	Body Cap	ASTM A351 CF8M	ASTM A216 WCB
3	Seat	Delrin	
4	Ball	ASTM A351 CF8M/316	ASTM A351 CF8M/316
5	Body Gasket	Graphite	
5A	Body O-Ring	Viton	
6-1	Thrust Washer	PTFE	
6-2		Graphite	
7	Stem	ASTM A276 316	
8	Stem Packing	Graphite	
9	Gland	AISI 304	
10	Handle	AISI 304	
11	Spring Washer	AISI 304	
12	Handle Nut	AISI 304	
13	Sleeve	Vinyl Plastisol	
14	Anti-Static Device	AISI 304	
15	Stem O-Ring	Viton	



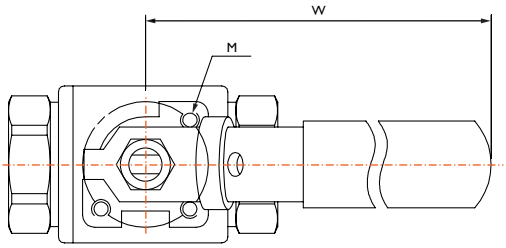
DIMENSIONS

Size		ØD		L		H		W		Weights KG
IN	DN	IN	MM	IN	MM	IN	MM	IN	MM	
1/2"	15	0.50	12.7	2.72	69.0	2.64	67	4.80	122	0.7
3/4"	20	0.75	19.0	3.48	88.5	2.91	74	5.83	148	1.1
1"	25	1.00	25.4	4.02	102.0	3.15	80	6.61	168	1.7
11/4"	32	1.26	32.0	4.55	115.5	3.39	86			2.4
11/2"	40	1.50	38.0	4.88	124.0	4.76	121	10.23	260	3.8
2"	50	1.75	44.5	5.87	149.0	4.96	125			5.9

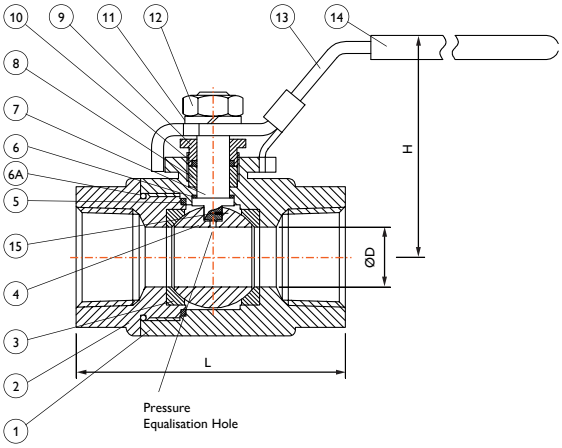


This catalogue is general in it's nature and design and can vary at any time. This catalogue is to be used as a guide only.

2 PIECE BODY CLASS 3000 & 6000 PSI FS660 SERIES BALL VALVE



API 6FA, API607 5th Edition
ISO 10497 Firesafe Certified



MATERIALS LIST

No.	Part Name	Stainless Steel	Carbon Steel
1	Body	ASTM A351 CF8M	ASTM A216 WCB
2	Body Cap	ASTM A351 CF8M	ASTM A216 WCB
3	Seat	Delrin	
4	Ball	ASTM A351 CF8M	
5-1	Thrust Washer	PTFE	
5-2		Graphite	
6	Body Gasket	Graphite	
6A	Body O-Ring	Viton	
7	Stem	ASTM A276 316	
8	Stem Seal	Graphite	
9	Gland	AISI 304	
10	Gland Packing	PTFE	
11	Spring Washer	AISI 304	
12	Handle Nut	AISI 304	
13	Handle	AISI 304	
14	Sleeve	Vinyl Plastisol	
15	Anti-Static Device	AISI 304	

Other special materials are available for seats:
PTFE + 316; Carbon Graphite; Vespel, Delrin, PEEK
Technical information upon request.

FEATURES

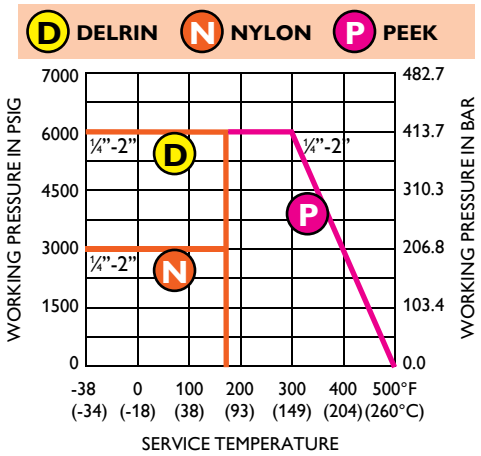
- Two Piece Body Screwed Ends
- Investment Cast Body
- Blow Out Proof Stem / Floating Ball
- Fire-Safe API 607 5th Edition, API 6FA 3rd Edition
- Adjustable Packing Gland
- Standard Locking Handle
- Actuator Mounting Pad
- Ball includes Pressure Equalisation Hole to prevent trapped pressure in body cavity which prevents seat damage due to thermal cycling
- Threads conform to ANSI B1.20.1, BS21, DIN259/2999
- Mount Pad

API 3000 - 3000 PSI WOG
Max Working pressure: 207 bar @ 38°C - 3000 psi @ 100°F
Seat Nylon / Delrin

CLASS 2500 - 6000 PSI WOG
Max Working pressure: 413 bar @ 38°C - 6000 psi @ 100°F
Seat Nylon / Delrin

Test Pressure 8NB - 50NB (1/4" ~ 2")	
Shell Test	9000PSI
HPC Test	6600PSI
LPC Test	80 - 100PSI

P-T RATINGS



DIMENSIONS

Size		ØD		L		H		W		ISO 5211	M
IN	DN	IN	MM	IN	MM	IN	MM	IN	MM		
1/4"	8	0.25	6.4	3.00	76.2	1.92	48.8	5.00	127.0	F03	3xM5
3/8"	10	0.50	12.7	4.00	101.6						
1/2"	15	0.50	12.7	4.00	101.6						
3/4"	20	0.75	19.1	4.25	108.0	2.56	65.0	5.83	148.1	F04	
1"	25	1.00	25.4	4.5	114.3	3.45	87.6	8.10	205.7	F05	3xM6
11/4"	32	1.50	38.1	5.25	133.4	4.13	104.9	10.00	254.0	F07	3xM8
11/2"	40										
2"	50			6.25	158.8						

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3 PIECE BODY CLASS 600 TO 2500 BALL VALVE BV100 SERIES

FEATURES

- Screwed end, socket weld end to ASME B16.11, butt weld end to ASME B16.11, flanged end or any combination available
- AGA approved for AS 4617, AS 4629.1 & AS 4629.2
- True swing-out centre (800 Class)
- Firesafe to API 607 6th edition and API 6FA
- High cycle triple barrier stem seal system
- Design to ANSI B16.34
- Class 600 to 2500 and API 3000
- Three piece, enclosed bolt design
- Investment cast or forged
- Anti-blowout stem
- Full bore for minimum pressure drop
- Adjustable packing nut to compensate for tension loss
- Locking handle
- Antistatic design to API 608
- Testing to API 598
- Actuator mounting pad to ISO 5211
- Vacuum service (PTFE Seat) down to 20 microns (133 pascals)

ISO 15848-1, CL CO2 Endurance Test Certified

API 6FA, API 607 6th Edition ISO 10497 Firesafe Certified

AS 4617, AS 4629

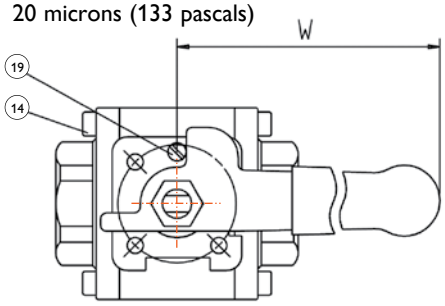
ISO 15848-1 Class C02 Fugitive Emission Certified

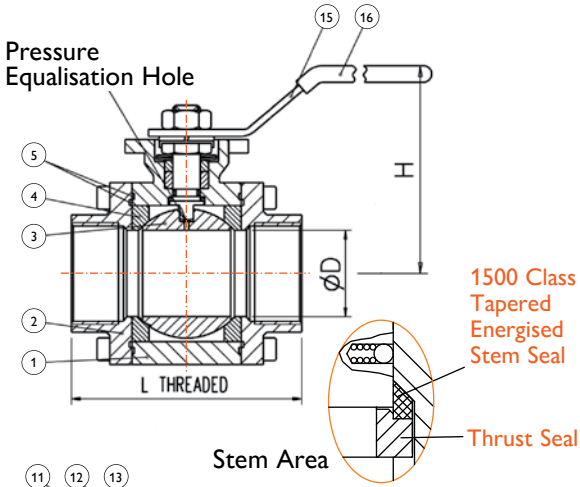
50NB

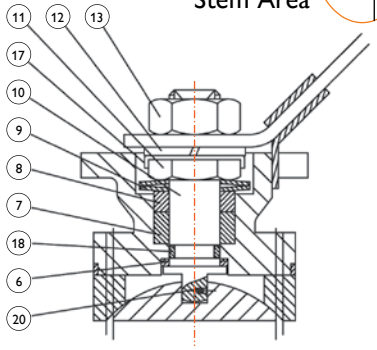
BILL OF MATERIALS - 800 CLASS ONLY

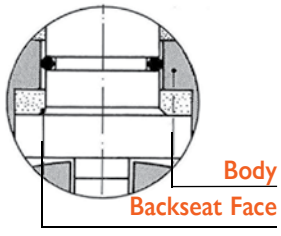
No.	Parts	Specification			
1	Body	A351-CF8M/316	A216-WCB/A105	A351-CN7M/A20	A352-LCB/LF2
2	End Cap	A351-CF8M/316	A216-WCB/A105	A351-CN7M/A20	A352-LCB/LF2
3	Ball	A276-316	A276-316	B437-A20	B437-A20
4	Seat	RTFE/Delrin	RTFE/Delrin	RTFE/Delrin	RTFE/Delrin
5	Gaskets	PTFE/Graphite	PTFE/Graphite	PTFE/Graphite	PTFE/Graphite
6	Thrust Washer	PTFE/Graphite	PTFE/Graphite	PTFE/Graphite	PTFE/Graphite
7	Stem Packing	PTFE/Graphite	PTFE/Graphite	PTFE/Graphite	PTFE/Graphite
8	Packing Gland	316	304	A20	A20
9	Belleville Washer	301SS	301SS	301SS	301SS
10	Stem	A276-316	A276-316	B437-A20	B437-A20
11	Gland Nut	SS304	SS304	SS304	SS304
12	Spring Washer	301SS	301SS	A20	301SS
13	Stem Nut	SS304	SS304	A20	SS304
14	Bolt	A193 Gr. B8M	A194 Gr. B7	A193 Gr. B8	A320 Gr. L7
15	Handle	SS	SS/Galv	SS	SS/Galv
16	Cover	Plastic	Plastic	Plastic	Plastic
17	Stop Washer	304SS	304SS	A20	304SS
18	Stem O-Ring*	PTFE/Viton	Viton	PTFE/Viton	Viton
19	Stop Pin	304SS	304SS	A20	304SS
20	Anti-Static Device	304SS	304SS	A20	304SS

*Elastomer free versiom available

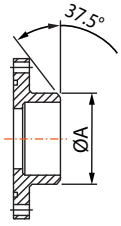




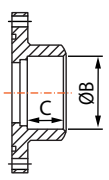




True swing-out centre - inline removeable



BUTTWELD (L1)



SOCKETWELD

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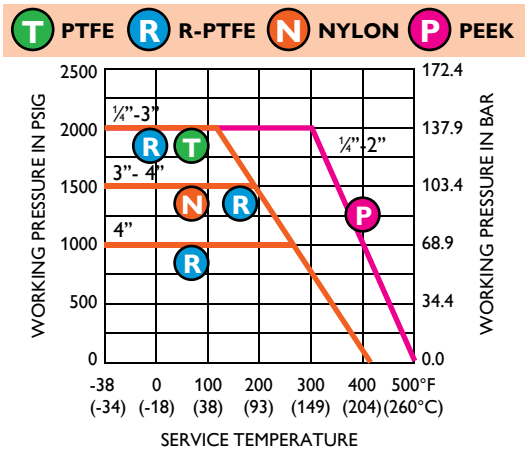
BV100 SERIES

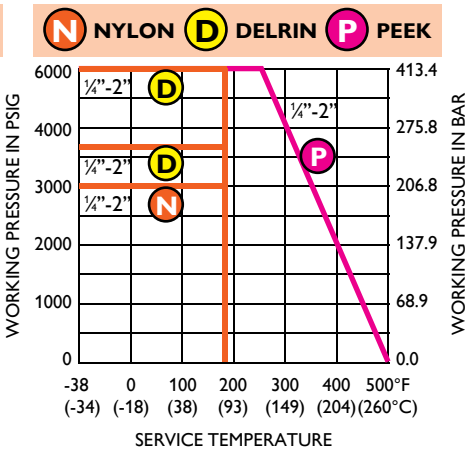
CV FULL PORT 800 CLASS

Size in.	Cv Factor GPM
8NB (1/4)	10
10NB (3/8)	10
15NB (1/2)	12
20NB (3/4)	35
25NB (1)	68
32NB (1-1/4)	105
40NB (1-1/2)	150
50NB (2)	290

P-T RATINGS UP TO 800 CLASS



P-T RATINGS UP TO 2500 CLASS



BREAK TORQUE VALVES (NM) - REINFORCED PTFE SEATS 800 CLASS

Valve Size mm	Line Pressure - Mpa									Maximum Stem Torque (Nm)
	1	2	3	4	5	7	9	10.3	13.8	
8, 10, 15	13	14	15	16	17	17	18	18	20	35
20	19	20	21	22	23	24	25	26	29	45
25	25	26	27	28	29	33	34	35	37	75
32	28	29	29	30	32	35	37	38	40	85
40	36	38	38	40	41	46	46	48	50	90
50	45	45	45	46	48	51	51	52	55	250
65	50	57	67	80	82	-	-	-	-	390
80	110	130	144	148	154	-	-	-	-	390
100	140	160	190	210	230	-	-	-	-	-

No safety factor is included. When conditions below apply, then calculate torque using the following application factors:

FREQUENCY OF OPERATION

Less than once per week	+25%
Less than once per month	+40%
Less than once per year	+60%

SERVICE CONDITIONS

Light slurry semi solids		+40%
Heavy slurry and some solids		+75%
Temperature -	Minus 40°C to minus 20°C	+75%
	Minus 20°C to 0°C	+25%
	Over 150°C	+40%

DIMENSIONS (MM) 800 CLASS FULL PORT*

Size		ØD		L		H		W		ØA		ØB		C		Weights
N	DN	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM	KG
1/4"	8	0.43	11.0	2.55	65.0	2.75	70.0	5.51	140.0	0.54	13.8	0.56	14.2	0.39	10.0	1.1
3/8"	10									0.68	17.3	0.69	17.6			1.1
1/2"	15	0.55	14.0	2.95	75.0					0.85	21.7	0.86	21.8	0.51	13.0	1.1
3/4"	20	0.80	20.5	3.14	80.0	3.54	90.0	7.08	180.0	1.07	27.2	1.07	27.2	0.59	15.0	1.6
1"	25	0.98	25.0	3.54	90.0	3.93	100.0			1.34	34.0	1.33	33.9			2.2
11/4"	32	1.24	31.5	4.33	110.0	4.40	112.0	8.46	215.0	1.68	42.7	1.68	42.7			3.3
11/2"	40	1.45	37.0	4.72	120.0	4.52	115.0			1.91	48.6	1.92	48.8	0.63	16.0	4.6
2"	50	1.96	50.0	5.51	140.0	5.23	133.0			2.38	60.5	2.41	61.2	0.67	17.0	7.3
2 1/2"	65	2.56	65.0	7.28	185.0	6.81	173.0	18.11	460	3.00	76.3	2.91	73.9	0.67	17.0	13.4
3"	80	3.15	80.0	8.07	205.0	7.24	184.0	18.11	460	3.51	89.1	3.54	89.8	0.67	17.0	21.0
4"	100	3.94	100.0	9.44	240.0	9.53	242.0	23.62	600	4.50	114.3	4.54	115.2	0.79	20.0	34.4

Dimensions are indicative only and vary according to body style. Refer to actual drawing. * For Reduced port all sizes refer to separate drawings.

65NB~80NB available in 600 and 800 class. 100NB 600 class rating only.

2500 Class

CF8M 800 Class

65NB ~ 100NB

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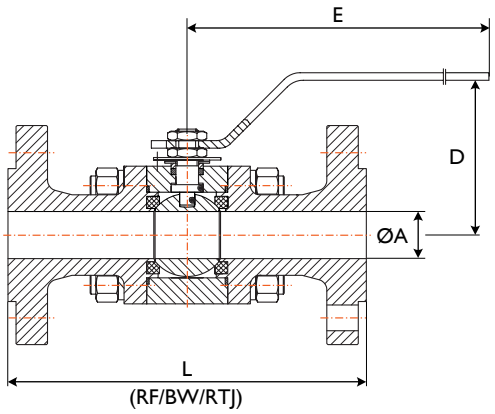
BV100 SERIES

DIMENSIONS - ANSI-600LB

Size (in)	1/2"	3/4x1/2"	3/4"	1x3/4"	1"	1-1/4x1"	1-1/4"	1-1/2x1/4"	1-1/2"	2x1-1/2"	2"
Size (mm)	**15**	**20x15**	**20**	**25x20**	**25**	**32x25**	**32**	**40x32**	**40**	**50x40**	**50**
A	15	15	19	19	25	25	32	32	38	38	50
D	82	82	87	87	92	92	105	105	108	108	119
E	145	145	170	170	170	170	270	270	270	270	270
L (RF)	165	190.5	190.5	216	229	229	241	241	292	292	292
L (BW)	165	190.5	190.5	216	216	229	229	241	241	292	292
L (RTJ)	163.5	190.5	190.5	216	216	229	229	241	241	295	295
Weight (kg)	5	7	7	9	10	14	15	17	18	20	22
Torque (Nm) breakaway	18	18	21	21	45	45	80	80	91	91	125



DIMENSIONS - ANSI-600LB

Size (in)	2-1/2x2"	2-1/2"	3x2"	3"	4x3"	4"	6x4"		
Size (mm)	**65x50**	**65**	**80x50**	**80**	**100x80**	**100**	**150x100***		
A	50	65	50	76	76	102	102		
D	119	150	119	163	163	187	187		
E	270	380	270	380	380	470	470		
L (RF)	330	330	356	356	432	432	559		
L (BW)	330	330	356	356	432	432	559		
L (RTJ)	333	333	359	359	435	435	562		
Weight (kg)	27	28	33	38	75	78	150		
Torque (Nm) breakaway	125	140	125	195	195	350	350		

*150 x 111mm standard bore also available. Refer to drawing.

Forged 3 Piece 600~2500LB

DIMENSIONS - ANSI-900/1500LB

Size (in)	1/2"	3/4x1/2"	3/4"	1x3/4"	1"	1-1/4x1"	1-1/4"	1-1/2x1/4"	1-1/2"	2x1-1/2"	2"
Size (mm)	**15**	**20x15**	**20**	**25x20**	**25**	**32x25**	**32**	**40x32**	**40**	**50x40**	**50**
A	15	15	19	19	25	25	32	32	38	38	50
D	82	82	87	87	92	92	105	105	108	108	119
E	145	145	170	170	170	170	270	270	270	270	270
L (RF)	216	229	229	254	254	279	279	305	305	368	368
L (BW)	216	229	229	254	254	279	279	305	305	368	368
L (RTJ)	216	229	229	254	254	279	279	305	305	371	371
Weight (kg)	10	11	14	15	17	19	23	25	28	30	34
Torque (Nm) 900*	21	21	33	33	68	68	90	90	135	135	139
Torque (Nm) 1500*	35	35	42	42	120	120	250	250	305	305	390

2500lb Refer to drawing. Also see BVF100-F26 (Special Service Ball Valves) for floating 1500NB 900/1500lb. Also see model BV100 3 piece.

Flanged 2 Piece 600 to 2500LB

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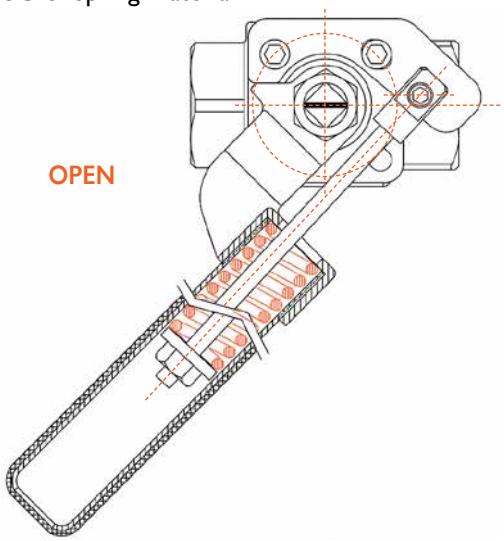
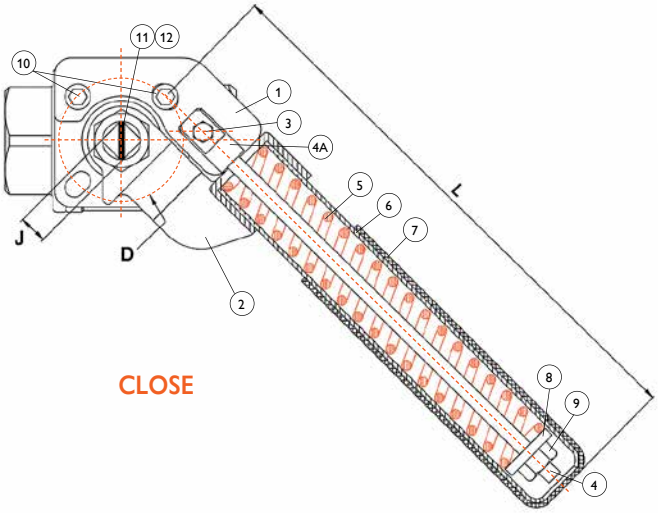
SPRING RETURN DEADMAN HANDLE FOR QUARTER TURN VALVES S71 SERIES (KITS)

FEATURES

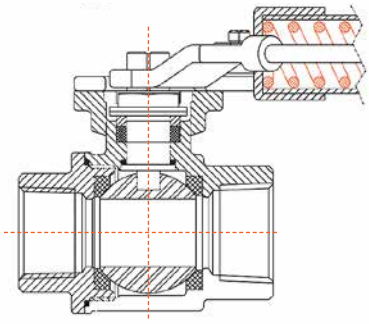
- All components of lever are stainless steel
- Operating torque should be sized according to valve torque, media, pressure and safety.
- Can be fitted on 1P, 2P, 3P valve
- Available in ISO F03 to F07
- 55CrSi Spring Material

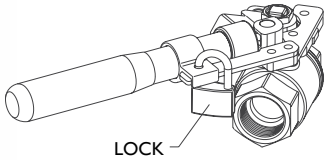
OPEN





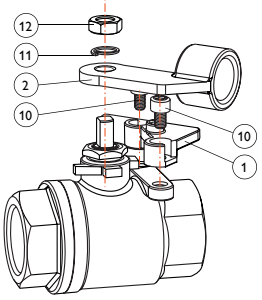
CLOSE

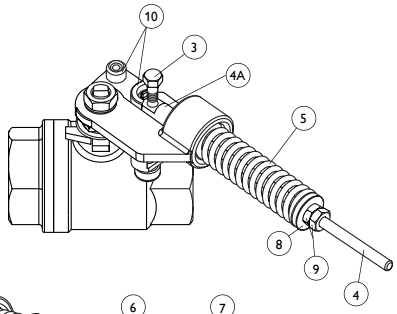


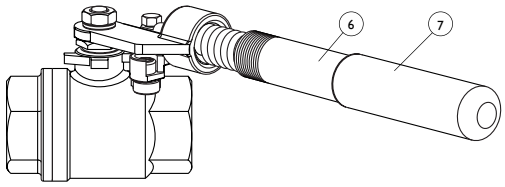


MATERIALS LIST

Item	Part Name	Quantity	Materials
1	Handle Head	1	CF8
2	Anchor	1	CF8
3	Anchor Screw	1	SS 304
4	Spring Rod	1	SS 304
4A	Spring Rod Anchor	1	SS 304
5	Spring	1	SS 301
6	Handle Extension	1	SS 304
7	Sleeve	1	PVC
8	Washer	2	SS 304
9	Hex Nut	2	SS 304
10	Socket Head Screws	2	SS 304
11	Washer	1	SS 304
12	Nut	1	SS 304







DIMENSIONS & TORQUE

Kit Part No.	L	J*	D (ISO 5211)	Torque
S71-504	170	9	F03/F04	15Nm
S71-507	207	9	F03/F04	20Nm
S71-507	220	11	F04/F05	20Nm
S71-508	275	11	F04/F05	30Nm
S71-508	280	14	F04/F05/F07	33Nm
S71-509	436	14	F04/F05/F07	55Nm

*Available unmachined

APV

AUSTRALIAN PIPELINE VALVE®

COMPLETE PRODUCT LINE

"Australian Pipeline Valve produces isolation, control and flow reversal protection products for severe and critical service media in utility, steam, pipelines, oil & gas and process industries. APV valves and pipeline products form the most competitive portfolio in the market."

FLOWTURN®

STEAMCO®

SUPER·CHECK®

SUPERSEAL®

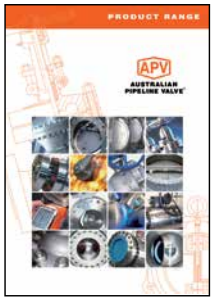
TORQTURN®

TWIN-LOK®

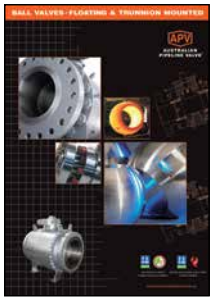
UNIFLO®

DIAMOND GEAR®

AUSTRALIAN PIPELINE VALVE BRAND RANGE - CATALOGUES

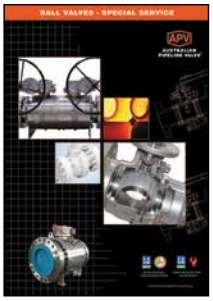


Product Brochure



Ball Valves Floating & Trunnion Mounted

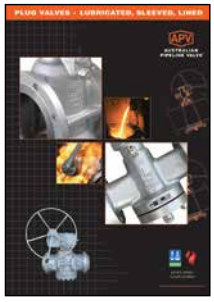
Ball Valves Floating Small Bore



Ball Valves Special Service

Gate, Globe & Check Valves - Cast Steel

Gate, Globe & Check Valves - Forged Steel



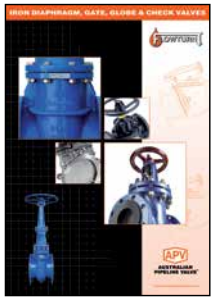
Plug Valves Lubricated, Sleeved & Lined

Oilfield Products Valves & Wellheads

APV FAMILY OF BRANDS RANGE - CATALOGUES

Diamond Gear Gearboxes

Flowturn Ball Valves Multiway & Deadman



Flowturn Gate, Globe & Check Valves

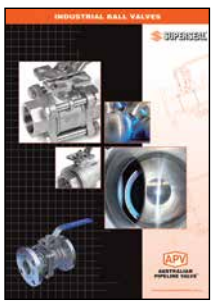
Flowturn Instrument Valves

Flowturn Strainers & Sight Glasses

Steamco Steam Valves

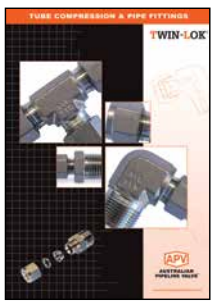
Supercheck Wafer Check Valves

Superseal Butterfly Valves

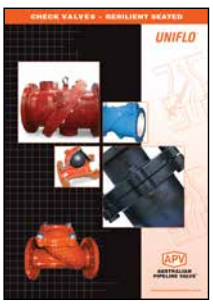


Superseal Industrial Ball Valves

Torqturn Actuators



TwinLok Tube & Pipe Fittings



Uniflo Check Valves

Contact us for your local stockist/distributor

View our catalogues at www.australianpipelinevalve.com.au

APV AgentsWanted

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www.australianpipelinevalve.com.au

LOCAL DISTRIBUTOR

QUALITY ASSURANCE AND CERTIFICATION

We are continually improving all facets of quality assurance. Full metallurgical and test certificates are always supplied for all pressure retaining parts, we also provide it on all major trim components.

We have endeavoured to provide a broad outline of our range and capabilities. Because we are continually developing new products for our customers this catalogue will, to some extent be incomplete. This catalogue is a general overview only, individual drawings and data sheets can be furnished on request.

If you have any requirement in the field of valves, please contact us for a prompt response. Continuous development of Australian Pipeline Valve products may necessitate changes in the design or manufacturing processes. Australian Pipeline Valve reserves the right to effect any such changes without prior notice.

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