

SUBMITTAL SHEET

JOB NAME		ITEM TAG	
JOB LOCATION		PART NUMBER	
CONTRACTOR	DATE		
ENGINEER APPROVAL	DATE		



FULL PORT CUBIC BALL BALL VALVE

T/S-1004

Cubic Ball ball design reduces ball-to-seat contact area, reducing operational torque by 20% and increasing seat life by 50%

Durable, oversized forged brass body has larger wrench flats, for ease of installation

Bottom-loaded blowout-proof stem is a maintenance-free design with a dual O-ring seal

Improved 3M Dyneon* TFM PTFE seats are more durable than traditional Teflon* seats

Dacromet coated steel handles provide exceptional corrosion resistance over uncoated handles

Available in female pipe thread sizes 1/2" to 4" and female sweat tubing sizes 1/2" to 3"

Working Pressure Non-Shock (PSI)
Saturated Steam all sizes: 150 psi

Cold Water, Oil, Gas all sizes: 600 psi

- Meets Federal Specification WW-V-35C
- Conforms to MSS SP-110
- CSA Certified for use with natural, manufactured, mixed, liquified petroleum and LP gas/air mixtures:
 - ANSI standard Z21.15 for use as a gas appliance connector valve for 1/2" to 2" systems (1/2" to 2")
 - CSA Certified 3-88 for use in 2 or 5 lb. house piping systems (1/2" to 2")
 - ANSI/ASME B16.33 for use in gas piping systems up to 125 PSIG (1/2" to 1")
- UL Listed 44R8 for LP, natural and manufactured gases; flammable liquids; NO.6 oil at 250F (1/2" to 2")
- UL listed 757X for fire protection service (1/2" to 2")
- Factory Mutual approved for fire protection service (1/2" to 2")
- Threaded end connections conform to ANSI/ASME B1.20.1
- Sweat tubing end connections conform to ANSI/ASME B16.18
- Manufactured in an ISO 9002 accredited facility

MATERIAL SPECIFICATION

PART	MATERIAL	SPECIFICATIONS
1 Handle nut	Dacromet coated steel	ASTM A510 UNS G10060
2 Handle	Dacromet coated steel	ASTM A510 UNS G10060
3 Anti-friction washer	TFM PTFE	3M Dyneon*
4 Stem O-rings (2)	Fluorocarbon	DuPont Viton**
5 Thrust washer	TFM PTFE	3M Dyneon*
6 Stem	Chrome plated forged brass	ASTM B124/124M UNS C37700
7 Cubic ball	Chrome plated forged brass	ASTM B124/124M UNS C37700
8 Seats (2)	TFM PTFE	3M Dyneon*
9 Body	Forged brass	ASTM B124/124M UNS C37700
10 End adapter	Forged brass	ASTM B124/124M UNS C37700

*Dyneon TFM is a registered trademark of the 3M Company
**Viton is a registered trademark of the DuPont Company

DIMENSIONS

Size	A (IPS)	A (CXC)	B	C	D	CV***
1/2"	2.21	2.28	1.42	0.59	3.03	22.40
3/4"	2.44	3.15	1.89	0.79	3.70	39.20
1"	2.99	3.86	2.05	0.98	3.70	61.60
1-1/4"	3.39	4.33	2.21	1.26	3.70	143.30
1-1/2"	3.82	5.00	2.77	1.56	5.43	224.00
2"	4.37	6.00	3.15	1.97	5.43	312.00
2-1/2"	6.02	7.40	4.33	2.56	7.48	497.00
3"	6.77	8.60	4.72	3.15	7.48	723.00
4"	8.54	6.30	3.94	10.24	1252.00	

*** The CV Factor is the gallons of water per minute passed through the valve with a 1 PSI pressure drop

