## **CYLINDER VALVE INLET CONNECTIONS**

SI.		Small End Major	Taper on	Thread	Thread Per			
No.	Designation	Diameter (mm)	Diameter	Angle	Inch (TPI)	Specification	Remarks	
TAPER THREADS								
1a	1/8-27 NGT	9.984			27			
1b	1/4-18 NGT	13.253				CGA V-1		
1c	3/8-18 NGT	16.672			18		Also as per IS: 12300	
1d	1/2-14 NGT	20.716		60°	14	Type 1, Size 1 of IS 3224		
1e	3/4-14 NGT		1:16			Type 1, Size 2 of IS 3224		
_,	3/4-14 NGT	26.029				Standard size for		
i)	(CI)-1					Chlorine as per IS 3224		
	3/4-14 NGT	25.424				4 turns oversize for		
ii)	(CI)-2	26.484				Chlorine as per IS 3224		
						7 turns oversize other	Also as per CGA V-1	
iii)	3/4-14 NGT	26.824				than Chlorine as per		
						IS 3224		
iv)	3/4-14 NGT	26.995				8-1/2 turns oversize for		
10)	(CI)-3	20.993				Chlorine as per IS 3224		
v)	3/4-14 NGT	27.617				14 turns oversize for		
V)	(CI)-4	27.017				Chlorine as per IS 3224		
vi)	3/4-14 NGT	29.204				28 turns oversize for		
	(CI)-5	23.204				Chlorine as per CGA V-1		
<b>1</b> f	1-11 1/2 NGT					Type 1, Size 3 of IS 3224	Also as per CGA V-1	
i)	1-11 1/2 NGT	32.593	1:16	60°	11.5	Standard size for		
-,	(CI)-1					Chlorine as per CGA V-1		
ii)	1-11 1/2 NGT	33.144				4 turns oversize for		
	(CI)-2					Chlorine as per CGA V-1	Also as per Chlorine	
iii)	1-11 1/2 NGT (CI)-3 1-11 1/2 NGT	33.766 34.523				8-1/2 turns oversize for		
						Chlorine as per CGA V-1		
iv)			_			14 turns oversize for		
	(CI)-4					Chlorine as per CGA V-1		
v)	1-11 1/2 NGT	36.454				28 turns oversize for		
	(CI)-5					Chlorine as per CGA V-1		
2a	17E (W 19.8)	17.4	3:25	55°	14	Type 2 Size 1 of IS 3224  Type 2 Size 2 of IS 3224	Equivalent to 19.8 mm of DIN 477-1:1990 &	
Za							17E of EN ISO 11363-1	
	25E (W 28.8)	25.8					Equivalent to 28.8 mm	
							of DIN 477-1:1990, 25T	
							of BS: 341-1991,	
2b							25E of EN ISO 11363-1	
							(supersedes	
							EN 629-1:1996)	
_	28E	20.2				DIN 477	,	
2c	(W 31.3)	28.3				DIN 477		



SI. No.	Designation	Small End Major Diameter (mm)	Taper on Diameter	Angle	Thread Per Inch (TPI)	Specification	Remarks	
	TAPER THREADS							
3a	18.16* (18T)	18.16	1:8 55°			Type 4, Size 1 of IS 3224	Equivalent to 18T of BS 341-1:1991 & 0.715-18AU Also as per of AS 2473.2 BS 341:1962	
3b	25.4 (1"BS)	25.4			Type 4, Size 2 of IS 3224	Equivalent to 1.0-25AU of AS 2473.2		
i)	26.194 (1 1/32")	26.194		55°	0 14	3.5 turns oversize as per IS 3224	Also as per BS 341:1962	
ii)	26.987 (1 1/16")	26.987				7 turns oversize as per IS 3224		
iii)	27.781 (1 3/32")	27.781				10.5 turns oversize as per IS 3224		
iv)	28.574 (1 1/8")	28.574				14 turns oversize as per IS 3224		
3с	31.75* (32T)	31.75			11	Type 4, Size 3 of IS 3224	Also as per BS 341-1:1991	
SI. No.	Designation	Large End Major Diameter (mm)	Taper on Diameter	Thread Angle	Thread Per Inch (TPI)	Specification	Remarks	
4a	V1	21.2						
4b	V2	29.5			14	JIS 8246		
4c	V3	29.5	3:26	55°				
4d	1.455" (W39)	40.3 (Approx.)			12	JIS 8244		

<sup>\*</sup> Oversize of 18.16 & 31.75 are also available as per IS 3224

SI. No.	Designation	Thread Angle	Major Diameter (mm)	Specification	Remarks				
PARALLEL THREADS									
1	3/4-16 UNF-2A	60°	19.012 / 18.773	IS 3224	Also as per JIS B 8246				
2	1 1/8-12 UNF-2A		28.529 / 28.240						
3	3/4-14 NPSM		26.264 / 26.010		1. Also as per JIS B 8246 2. Equivalent to 3/4-14 NGS-2A as per AS 2473.2				
4	M18X1.5-6g		17.968 / 17.732	ISO 15245	Also as per IS 3224 & BS 341-1:1991				
5	M25X2.0-6g		24.962 / 24.682						
6	M30X2.0-6g		29.982 / 29.662		Also as per IS 3224 & BS 341-1:1991				

NOTE The list contains commonly used Cylinder Valve Inlet Connections & is not exhaustive. Refer ISO/TR 11364, for additional connections used worldwide.

