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Technical Information

Gland Entry "Thread Reference Tables"

Thread Type	Thread	Peppers Reference	Pitch	TPI	Major Dia	Thread Length	Gland Min A/C	Max Clearance Hole Dia
ISO Metric IEC 60423	M16	M16	1.50	16.93	15.97	16.0	26.5	16.7
	M20	M20	1.50	16.93	19.97	16.0	33.0	20.7
	M25	M25	1.50	16.93	24.97	16.0	41.4	25.7
	M32	M32	1.50	16.93	31.97	16.0	50.6	32.7
	M40	M40	1.50	16.93	39.97	16.0	60.5	40.7
	M50	M50	1.50	16.93	40.97	16.0	71.5	50.7
	M63	M63	1.50	16.93	62.97	19.0	88.0	63.7
	M75	M75	1.50	16.93	74.97	19.0	99.0	75.7
	M80	M80	2.00	12.70	79.97	25.0	115.2	80.7
	M85	M85	2.00	12.70	84.97	25.0	115.2	85.7
	M90	M90	2.00	12.70	89.97	25.0	125.7	90.7
	M100	M100	2.00	12.70	99.97	25.0	125.7	100.7

Thread Type	Thread	Peppers Reference	Pitch	TPI	Major Dia	Thread Length	Gland Min A/C	Max Clearance Hole Dia
NPT ANSI B1.20.1	1/2"	050NPT	1.81	14.0	21.34	19.9	26.5	22.04
	3/4"	075NPT	1.81	14.0	26.67	20.1	33.0	27.37
	1"	100NPT	2.20	11.5	33.40	25.0	41.4	34.10
	1-1/4"	125NPT	2.20	11.5	42.16	25.6	50.6	42.86
	1-1/2"	150NPT	2.20	11.5	48.26	26.0	60.5	48.96
	2"	200NPT	2.20	11.5	60.33	26.9	71.5	61.03
	2-1/2"	250NPT	3.18	8.0	73.03	39.9	88.0	73.73
	3"	300NPT	3.18	8.0	88.90	41.5	99.0	89.60
	3-1/2"	350NPT	3.18	8.0	101.60	42.8	115.2	102.30
	4"	400NPT	3.18	8.0	114.30	44.0	125.7	115.00

Thread Type	Thread	Peppers Reference	Pitch	TPI	Major Dia	Thread Length	Gland Min A/C	Max Clearance Hole Dia
NPS ANSI B1.20.1	1/2"	050NPS	1.81	14.0	20.90	19.9	26.5	21.60
	3/4"	075NPS	1.81	14.0	26.26	20.1	33.0	26.96
	1"	100NPS	2.20	11.5	32.84	25.0	41.4	33.54
	1-1/4"	125NPS	2.20	11.5	41.61	25.6	50.6	42.31
	1-1/2"	150NPS	2.20	11.5	47.67	26.0	60.5	48.37
	2"	200NPS	2.20	11.5	59.72	26.9	71.5	60.42
	2-1/2"	250NPS	3.18	8.0	72.16	39.9	88.0	72.86
	3"	300NPS	3.18	8.0	88.06	41.5	99.0	88.76
	3-1/2"	350NPS	3.18	8.0	100.78	42.8	115.2	101.48
	4"	400NPS	3.18	8.0	113.43	44.0	125.7	114.13

Thread Type	Thread	Peppers Reference	Pitch	TPI	Major Dia	Thread Length	Gland Min A/C	Max Clearance Hole Dia
PG DIN 40430	PG7	PG7	1.27	20.0	12.50	16.0	26.5	13.20
	PG9	PG9	1.41	18.0	15.20	16.0	26.5	15.90
	PG11	PG11	1.41	18.0	18.60	16.0	26.5	19.30
	PG13.5	PG13.5	1.41	18.0	20.40	16.0	26.5	21.10
	PG16	PG16	1.41	18.0	22.50	16.0	33.0	23.20
	PG21	PG21	1.59	16.0	28.30	16.0	41.4	29.00
	PG29	PG29	1.59	16.0	37.00	16.0	50.6	37.70
	PG36	PG36	1.59	16.0	47.00	16.0	60.5	47.70
	PG42	PG42	1.59	16.0	54.00	16.0	71.5	54.70
	PG48	PG48	1.59	16.0	59.30	16.0	88.0	60.00

Thread Type	Thread	Peppers Reference	Pitch	TPI	Major Dia	Thread Length	Gland Min A/C	Max Clearance Hole Dia
ISO Pipe Parallel ISO R/7 BS2779 (BSPP, G, R & PF)	1/2"	050BSP	1.81	14.0	20.96	16.0	26.5	21.66
	3/4"	075BSP	1.81	14.0	26.44	16.0	33.0	27.14
	1"	100BSP	2.31	11.0	33.25	20.0	41.4	33.95
	1-1/4"	125BSP	2.31	11.0	41.91	20.0	50.6	42.61
	1-1/2"	150BSP	2.31	11.0	47.80	20.0	60.5	48.50
	2"	200BSP	2.31	11.0	59.61	20.0	71.5	60.31
	2-1/2"	250BSP	2.31	11.0	75.18	20.0	88.0	75.88
	3"	300BSP	2.31	11.0	87.88	20.0	99.0	88.58
	3-1/2"	350BSP	2.31	11.0	100.33	20.0	115.2	101.03
	4"	400BSP	2.31	11.0	113.03	20.0	125.7	113.73

Thread Type	Thread	Peppers Reference	Pitch	TPI	Major Dia	Thread Length	Gland Min A/C	Max Clearance Hole Dia
ISO Pipe Taper ISO R/7 BS21 (BSPT & GK)	1/2"	050BST	1.81	14.0	20.96	19.9	26.5	21.66
	3/4"	075BST	1.81	14.0	26.44	20.1	33.0	27.14
	1"	100BST	2.31	11.0	33.25	25.0	41.4	33.95
	1-1/4"	125BST	2.31	11.0	41.91	25.6	50.6	42.61
	1-1/2"	150BST	2.31	11.0	47.80	26.0	60.5	48.50
	2"	200BST	2.31	11.0	59.61	26.9	71.5	60.31
	2-1/2"	250BST	2.31	11.0	75.18	39.9	88.0	75.88
	3"	300BST	2.31	11.0	87.88	41.5	99.0	88.58
	3-1/2"	350BST	2.31	11.0	100.33	42.8	115.2	101.03
	4"	400BST	2.31	11.0	113.03	44.0	125.7	113.73

Glands are available with Metric or NPT threads as standard. All other thread forms are manufactured to order.

Adaptor / Reducer Options

MALE SIZE	METRIC FEMALE SIZES													
Metric	M16	M20	M25	M32	M40	M50	M63	M75	M80	M85	M90	M100	M110	M120
M16	A01	A01												
M20	R02	A02	A03	A05										
M25	R05	R05	A04	A05	A06									
M32	R07	R07	R07	A05	A06	A08								
M40	R09	R09	R09	R09	A07	A08	A11							
M50	R12	R12	R12	R12	R12	A09	A11	A12						
M63	R14	R14	R14	R14	R14	R14	A11	A12	A13	A14				
M75	R16	R16	R16	R16	R16	R16	R16	A12	A13	A14	A14	A15		
M80	R16	R16	R16	R16	R16	R16	R16	A12	A13	A14	A14	A15		
M85	R17	R17	R17	R17	R17	R17	R17	R17	A13	A14	A14	A15		
M90	R17	R17	R17	R17	R17	R17	R17	R17	R17	A14	A14	A15	A16	
M100	R18	R18	R18	R18	R18	R18	R18	R18	R18	R18	R18	A15	A16	A17
M110	R19	R19	R19	R19	R19	R19	R19	R19	R19	R19	R19	R19	A16	A17
M120	R20	R20	R20	R20	R20	R20	R20	R20	R20	R20	R20	R20	R20	A17
NPT														
½"	R01*	A01*	A03	A05										
¾"	R03*	R03*	A03*	A05	A06									
1"	R06*	R06*	R06*	A05*	A06	A08								
1¼"	R08*	R08*	R08*	R08*	A06*	A08	A11							
1½"	R10*	R10*	R10*	R10*	R10*	A08*	A11	A12						
2"	R13	R13	R13	R13	R13	R13	A11	A12	A13	A14				
2½"	R15	R15	R15	R15	R15	R15	R15	A12	A13	A14	A14			
3"	R16*	R16*	R16*	R16*	R16*	R16*	R16*	R16*	A13*	A14	A14	A15	A16	A17
3 ½"	R17*	R17*	R17*	R17*	R17*	R17*	R17*	R17*	R17*	R17*	R17*	A15	A16	A17
4"	R19*	R19*	R19*	R19*	R19*	R19*	R19*	R19*	R19*	R19*	R19*	R19*	A16	A17
5"	R21*	R21*	R21*	R21*	R21*	R21*	R21*	R21*	R21*	R21*	R21*	R21*	R21*	R21*
PG														
PG9	A01	A01												
PG11	A01	A02	A03											
PG13.5	R02	A02	A03	A05										
PG16	R04	A03	A03	A05										
PG21	R07	R07	A05	A05	A06									
PG29	R08	R08	R08	R08	A06	A08								
PG36	R11	R11	R11	R11	R11	A08	A11							
PG42	R13	R13	R13	R13	R13	A10	A11	A12						
PG48	R14	R14	R14	R14	R14	R14	A11	A12						

MALE SIZE	NPT FEMALE SIZES										
Metric	½"	3/4"	1"	1¼"	1½"	2"	2½"	3"	3½"	4"	5"
M16	A18										
M20	A19	A20	A22								
M25	R05	A21	A22	A23							
M32	R07	R07	A22	A23	A24						
M40	R09	R09	R09	A23	A24	A26					
M50	R12	R12	R12	R12	A24	A26	A27				
M63	R14	R14	R14	R14	R14	A26	A27				
M75	R16	R16	R16	R16	R16	R16	A28	A29	A30		
M80	R16	R16	R16	R16	R16	R16	R16	A29	A30		
M85	R17	R17	R17	R17	R17	R17	R17	A29	A30		
M90	R17	R17	R17	R17	R17	R17	R17	A29	A30	A31	
M100	R18	R18	R18	R18	R18	R18	R18	R18	A30	A31	
M110	R19	R19	R19	R19	R19	R19	R19	R19	R19	A31	A33
M120	R20	R20	R20	R20	R20	R20	R20	R20	R20	A32	A33
NPT											
½"	A18*	A20	A22								
¾"	R03*	A20*	A22	A23							
1"	R06*	R06*	A22*	A23	A24						
1¼"	R08*	R08*	R08*	A23*	A24	A26					
1½"	R10*	R10*	R10*	R10*	A24*	A26	A27				
2"	R13	R13	R13	R13	R13	A26	A27	A29			
2½"	R15	R15	R15	R15	R15	R15	A27	A29	A30		
3"	R16*	R16*	R16*	R16*	R16*	R16*	R16*	A29	A30	A31	
3 ½"	R17*	R17*	R17*	R17*	R17*	R17*	R17*	R17*	A30	A31	
4"	R19*	R19*	R19*	R19*	R19*	R19*	R19*	R19*	R19*	A31	A33
5"	R21*	R21*	R21*	R21*	R21*	R21*	R21*	R21*	R21*	R21*	A33
PG											
PG9	A18										
PG11	A19	A20									
PG13.5	A19	A20	A22								
PG16	A20	A20	A22								
PG21	R07	A22	A22	A23							
PG29	R08	R08	A23	A23	A24						
PG36	R11	R11	R11	A24	A24	A26					
PG42	R13	R13	R13	R13	R13	A26	A27				
PG48	R14	R14	R14	R14	R14	A26	A27				

A = Certified Adaptor / R = Certified Reducer
All blank options are available as an industrial version