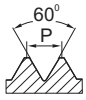




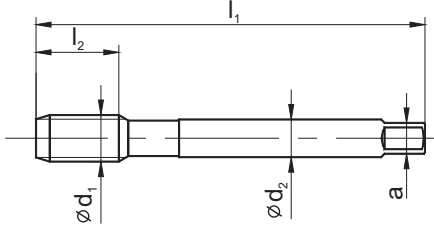
ISO Metric coarse thread DIN-13										800X						
										C-TN2	B-TN2	C-R40-TN2				
 HSSE TN2 DIN 371																
Material groups										P M K N S H	P M K N S H	P M K N S H				
Hole type																
Quality of material										HSSE	HSSE	HSSE				
Coating										TN2	TN2	TN2				
Chamfer										C / 2-3P	B / 4-5P	C / 2-3P				
M Ød ₁	P	l ₁	l ₂	l ₂ R40	l ₃	Ød ₂	a		Norm	DIN-371						
										Tol.	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)			
										INDEX	C2-123X01	C2-113X01	C2-513X01			
M 3	0,50	56	10	5	18	3,5	2,7	2,50	0030	●	●	●				
M 3,5	0,60	56	12	6	20	4,0	3,0	2,90	0035	●	●	●				
M 4	0,70	63	12	7	21	4,5	3,4	3,30	0040	●	●	●				
M 4,5	0,75	70	14	7,5	25	6,0	4,9	3,80	0045	●	●	●				
M 5	0,80	70	14	8	25	6,0	4,9	4,20	0050	●	●	●				
M 6	1,00	80	18	10	30	6,0	4,9	5,00	0060	●	●	●				
M 7	1,00	80	18	10	30	7,0	5,5	6,00	0070	●	●	●				
M 8	1,25	90	20	13	35	8,0	6,2	6,80	0080	●	●	●				
M 9	1,25	90	20	13	35	9,0	7,0	7,80	0090	●	●	●				
M10	1,50	100	20	15	39	10,0	8,0	8,50	0100	●	●	●				
										V _c (m/min)						
										ISO						
										P	5-35	5-35	5-35			
										M	5-15	5-15	5-15			
										K	5-25	5-25	10-25			
										N	10-30	10-30	10-30			
										S	-	-	-			

ISO Metric coarse thread DIN-13



HSSE

TN2

DIN
376

800X

C-TN2

B-TN2

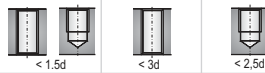
C-R40-TN2



Material groups



Hole type



Quality of material

HSSE HSSE HSSE

Coating

TN2 TN2 TN2

Chamfer

C / 2-3P B / 4-5P C / 2-3P

M Ød ₁	P	l ₁	l ₂	l ₂ R40	l ₃	Ød ₂	a		Norm	DIN-376						
									Tol.	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)				
									INDEX	D2-123X01	D2-113X01	D2-513X01				
M3	0,50	56	11	5	-	2,2	1,8	2,50	0030	○	○	○				
M4	0,70	63	12	8	-	2,8	2,1	3,30	0040	●	●	●				
M5	0,80	70	14	10	-	3,5	2,7	4,20	0050	●	●	●				
M6	1,00	80	18	12	-	4,5	3,4	5,00	0060	●	●	●				
M8	1,25	90	20	15	-	6,0	4,9	6,80	0080	●	●	●				
M10	1,50	100	20	17	-	7,0	5,5	8,50	0100	●	●	●				
M12	1,75	110	24	18	-	9,0	7,0	10,20	0120	●	●	●				
M14	2,00	110	25	20	-	11,0	9,0	12,00	0140	●	●	●				
M16	2,00	110	32	20	-	12,0	9,0	14,00	0160	●	●	●				
M18	2,50	125	32	25	-	14,0	11,0	15,50	0180	●	●	●				
M20	2,50	140	32	25	-	16,0	12,0	17,50	0200	●	●	●				
M22	2,50	140	32	25	-	18,0	14,5	19,50	0220	●	●	●				
M24	3,00	160	38	30	-	18,0	14,5	21,00	0240	●	●	●				
M27	3,00	160	38	30	-	20,0	16,0	24,00	0270	●	●	●				
M30	3,50	180	40	35	-	22,0	18,0	26,50	0300	●	●	●				
M33	3,50	180	45	35	-	25,0	20,0	29,50	0330	●	●	●				
M36	4,00	200	50	40	-	28,0	22,0	32,00	0360	●	●	●				
M39	4,00	200	55	40	-	32,0	24,0	35,00	0390	●	●	●				
M42	4,50	200	60	45	-	32,0	24,0	37,50	0420	●	●	●				
M45	4,50	220	60	45	-	36,0	29,0	40,50	0450	○	○	○				
M48	5,00	250	65	50	-	36,0	29,0	43,00	0480	○	○	○				
M52	5,00	250	65	50	-	40,0	32,0	47,00	0520	○	○	○				

ISO	Vc (m/min)						
P	5-35	5-35	5-35				
M	5-15	5-15	5-15				
K	5-25	5-25	10-25				
N	10-30	10-30	10-30				
S	-	-	-				

Example of order

D2-123X01-0390
Tap 800X M39-6H DIN-376 C HSSE TN2● Available from stock
○ On request



ISO Metric fine thread DIN-13											800X						
											C-TN2	B-TN2	C-R40-TN2				
HSSE TN2 DIN 371																	
Material groups											P M K N S H	P M K N S H	P M K N S H				
Hole type																	
Quality of material											HSSE	HSSE	HSSE				
Coating											TN2	TN2	TN2				
Chamfer											C / 2-3P	B / 4-5P	C / 2-3P				
MF Ød ₁	P	l ₁	l ₂	l ₂ R40	l ₃	Ød ₂	a		Norm		DIN-371						
									Tol.		ISO2 (6H)	ISO2 (6H)	ISO2 (6H)				
									INDEX		C2-123X01	C2-113X01	C2-513X01				
M4x0,5	0,50	63	12	7	21	4,5	3,4	3,50	0041	o	o	o					
M5x0,5	0,50	70	14	8	25	6,0	4,9	4,50	0051	o	o	o					
M6x0,75	0,75	80	14	10	30	6,0	4,9	5,20	0062	o	o	o					
M8x0,75	0,75	80	18	10	30	8,0	6,2	7,20	0082	o	o	o					
M8x1	1,00	90	20	13	35	8,0	6,2	7,00	0083	●	●	●					
M10x0,75	0,75	90	20	13	35	10,0	8,0	9,20	0102	o	o	o					
M10x1	1,00	90	20	13	35	10,0	8,0	9,00	0103	●	●	●					
M10x1,25	1,25	100	20	15	39	10,0	8,0	8,80	0104	o	●	●					
											Vc (m/min)						
ISO											P	M	K	N	S		
P											5-35	5-35	5-35				
M											5-15	5-15	5-15				
K											5-25	5-25	5-25				
N											10-30	10-30	10-30				
S											-	-	-				



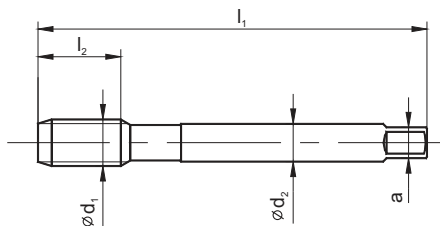
ISO Metric fine thread DIN-13



HSSE

TN2

DIN 374



800X

C-TN2

B-TN2

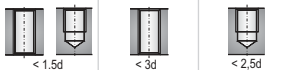
C-R40-TN2



Material groups



Hole type



Quality of material

HSSE HSSE HSSE

Coating

TN2 TN2 TN2

Chamfer

C / 2-3P B / 4-5P C / 2-3P

MF Ød ₁	P	l ₁	l ₂	l ₂ R40	l ₃	Ød ₂	a		Norm	DIN-374						
										Tol.	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)			
										INDEX	D2-123X01	D2-113X01	D2-513X01			
M8x1	1,00	90	20	10	-	6,0	4,9	7,00	0083	●	●	●				
M9x1	1,00	90	20	10	-	7,0	5,5	8,00	0093	○	○	○				
M10x0,75	0,75	90	18	10	-	7,0	5,5	9,20	0102	●	●	●				
M10x1	1,00	90	20	10	-	7,0	5,5	9,00	0103	●	●	●				
M10x1,25	1,25	100	20	15	-	7,0	5,5	8,80	0104	●	●	●				
M11x1	1,00	90	20	10	-	8,0	6,2	10,00	0113	○	○	○				
M12x1	1,00	100	20	10	-	9,0	7,0	11,00	0123	●	●	●				
M12x1,25	1,25	100	20	15	-	9,0	7,0	10,80	0124	●	●	●				
M12x1,5	1,50	100	20	15	-	9,0	7,0	10,50	0125	●	●	●				
M14x1	1,00	100	20	10	-	11,0	9,0	13,00	0143	●	●	●				
M14x1,25	1,25	100	20	15	-	11,0	9,0	12,80	0144	●	●	●				
M14x1,5	1,50	100	20	15	-	11,0	9,0	12,50	0145	●	●	●				
M15x1	1,00	100	20	10	-	12,0	9,0	14,00	0153	○	○	○				
M16x1	1,00	100	20	10	-	12,0	9,0	15,00	0163	●	●	●				
M16x1,5	1,50	100	20	15	-	12,0	9,0	14,50	0165	●	●	●				
M18x1	1,00	110	24	13	-	14,0	11,0	17,00	0183	○	○	○				
M18x1,5	1,50	110	24	17	-	14,0	11,0	16,50	0185	●	●	●				
M18x2	2,00	125	27	20	-	14,0	11,0	16,00	0186	●	●	●				
M20x1	1,00	125	24	13	-	16,0	12,0	19,00	0203	○	○	○				
M20x1,5	1,50	125	24	17	-	16,0	12,0	18,50	0205	●	●	●				
M20x2	2,00	140	27	20	-	16,0	12,0	18,00	0206	●	●	●				
M22x1	1,00	125	24	13	-	18,0	14,5	21,00	0223	○	○	○				
M22x1,5	1,50	125	24	17	-	18,0	14,5	20,50	0225	●	●	●				
M22x2	2,00	140	27	20	-	18,0	14,5	20,00	0226	●	●	●				
M24x1	1,00	140	27	13	-	18,0	14,5	23,00	0243	○	○	○				
M24x1,5	1,50	140	27	20	-	18,0	14,5	22,50	0245	●	●	●				
M24x2	2,00	140	27	20	-	18,0	14,5	22,00	0246	●	●	●				
M25x1,5	1,50	140	27	20	-	18,0	14,5	23,50	0253	○	○	○				
M26x1,5	1,50	140	27	20	-	18,0	14,5	24,50	0265	○	○	○				
M27x1,5	1,50	140	27	20	-	20,0	16,0	25,50	0275	●	●	●				
M27x2	2,00	140	27	20	-	20,0	16,0	25,00	0276	●	●	●				
M28x1,5	1,50	140	27	20	-	20,0	16,0	26,50	0285	○	○	○				

- Available from stock
- On request

ISO	Vc (m/min)					
P	5-35	5-35	5-35			
M	5-15	5-15	5-15			
K	5-25	5-25	5-25			
N	10-30	10-30	10-30			
S	-	-	-			

Example of order
D2-123X01-0083
Tap 800X M8x1-6H DIN-374 C HSSE TN2



ISO Metric fine thread DIN-13										800X						
										C-TN2	B-TN2	C-R40-TN2				
HSSE TN2 DIN 374																
Material groups										P M K N S H	P M K N S H	P M K N S H				
Hole type																
Quality of material										HSSE	HSSE	HSSE				
Coating										TN2	TN2	TN2				
Chamfer										C / 2-3P	B / 4-5P	C / 2-3P				
MF Ød ₁	P	l ₁	l ₂	l ₂ R40	l ₃	Ød ₂	a		Norm	DIN-374						
										Tol.	ISO2 (6H)	ISO2 (6H)				
										INDEX	D2-123X01	D2-113X01	D2-513X01			
M28x2	2,0	140	27	20	-	20,0	16,0	26,00	0286	o	o	o				
M30x1,5	1,5	150	27	22	-	22,0	18,0	28,50	0305	●	●	●				
M30x2	2,0	150	27	22	-	22,0	18,0	28,00	0306	●	●	●				
M32x1,5	1,5	150	27	22	-	22,0	18,0	30,50	0325	o	o	o				
M32x2	2,0	150	27	22	-	22,0	18,0	30,00	0326	o	o	o				
M33x1,5	1,5	160	30	22	-	25,0	20,0	31,50	0335	o	o	o				
M33x2	2,0	160	30	24	-	25,0	20,0	31,00	0336	o	o	o				
M34x1,5	1,5	170	30	22	-	28,0	22,0	32,50	0345	o	o	o				
M35x1,5	1,5	170	30	22	-	28,0	22,0	33,50	0355	o	o	o				
M36x1,5	1,5	170	30	22	-	28,0	22,0	34,50	0365	o	o	o				
M36x2	2,0	170	30	24	-	28,0	22,0	34,00	0366	o	o	o				
M36x3	3,0	200	50	30	-	28,0	22,0	33,00	0367	o	o	o				
M38x1,5	1,5	170	30	24	-	28,0	22,0	36,50	0385	o	o	o				
M39x1,5	1,5	170	30	25	-	32,0	24,0	37,50	0395	o	o	o				
M39x2	2,0	170	30	25	-	32,0	24,0	37,00	0396	o	o	o				
M39x3	3,0	200	50	30	-	32,0	24,0	36,00	0397	o	o	o				
M40x1,5	1,5	170	30	25	-	32,0	24,0	38,50	0405	o	o	o				
M40x2	2,0	170	30	25	-	32,0	24,0	38,00	0406	o	o	o				
M42x1,5	1,5	170	30	25	-	32,0	24,0	40,50	0425	o	o	o				
M42x2	2,0	170	30	25	-	32,0	24,0	40,00	0426	o	o	o				
M42x3	3,0	200	50	30	-	32,0	24,0	39,00	0427	o	o	o				
M45x1,5	1,5	180	30	27	-	36,0	29,0	43,50	0455	o	o	o				
M45x2	2,0	180	30	27	-	36,0	29,0	43,00	0456	o	o	o				
M45x3	3,0	200	50	30	-	36,0	29,0	42,00	0457	o	o	o				
M48x1,5	1,5	190	30	27	-	36,0	29,0	46,50	0485	o	o	o				
M48x2	2,0	190	30	27	-	36,0	29,0	46,00	0486	o	o	o				
M48x3	3,0	225	50	33	-	36,0	29,0	45,00	0487	o	o	o				
M50x1,5	1,5	190	30	27	-	36,0	29,0	48,50	0505	o	o	o				
M50x2	2,0	190	30	27	-	36,0	29,0	48,00	0506	o	o	o				
M52x1,5	1,5	190	32	27	-	40,0	32,0	50,50	0525	o	o	o				
M52x2	2,0	190	32	27	-	40,0	32,0	50,00	0526	o	o	o				
M52x3	3,0	225	50	33	-	40,0	32,0	49,00	0527	o	o	o				

● Available from stock

○ On request

ISO	Vc (m/min)					
P	5-35	5-35	5-35			
M	5-15	5-15	5-15			
K	5-25	5-25	5-25			
N	10-30	10-30	10-30			
S	-	-	-			

Example of order

D2-123X01-0305

Tap 800X M30x1,5-6H DIN-374 C HSSE TN2



American unified coarse thread UNC, ANSI B-1.1											800X					
											B-TN2	C-R40-TN2				
Material groups																
Hole type																
Quality of material											HSSE	HSSE				
Coating											TN2	TN2				
Chamfer											B / 4-5P	C / 2-3P				
UNC	Ød ₁	1"/P	P	l ₁	l ₂	l ₂ R40	l ₃	Ød ₂	a		Norm	DIN-371				
											Tol.	2B	2B			
											INDEX	C2-113X01	C2-513X01			
No2-56	2,184	56	0,455	45	10	10	13	2,8	2,1	1,85	4102	○	○			
No4-40	2,844	40	0,635	56	10	5	18	3,5	2,7	2,35	4104	●	●			
No5-40	3,175	40	0,635	56	10	7	18	3,5	2,7	2,65	4105	●	●			
No6-32	3,505	32	0,794	56	12	6	20	4,0	3,0	2,85	4106	●	●			
No8-32	4,165	32	0,794	63	12	7	21	4,5	3,4	3,50	4108	●	●			
No10-24	4,826	24	1,058	70	14	8	25	6,0	4,9	3,90	4110	●	●			
No12-24	5,486	24	1,058	80	18	10	30	6,0	4,9	4,50	4112	●	●			
1/4-20	6,350	20	1,270	80	18	13	30	7,0	5,5	5,10	4127	●	●			
5/16-18	7,938	18	1,411	90	20	13	35	8,0	6,0	6,60	4128	●	●			
3/8-16	9,525	16	1,588	100	20	15	39	10,0	8,0	8,00	4129	●	●			
UNC	Ød ₁	1"/P	P	l ₁	l ₂	l ₂ R40	l ₃	Ød ₂	a		Norm	DIN-376				
											Tol.	2B	2B			
											INDEX	D2-113X01	D2-513X01			
7/16-14	11,112	14	1,814	100	22	15	-	8,0	6,2	9,40	4130	●	●			
1/2-13	12,700	13	1,954	110	24	18	-	9,0	7,0	10,80	4131	●	●			
9/16-12	14,288	12	2,117	110	25	20	-	11,0	9,0	12,20	4132	●	●			
5/8-11	15,875	11	2,309	110	32	22	-	12,0	9,0	13,50	4133	●	●			
3/4-10	19,050	10	2,504	125	32	25	-	14,0	11,0	16,50	4135	●	●			
7/8-9	22,225	9	2,822	140	32	30	-	18,0	14,5	19,50	4137	●	●			
1-8	25,400	8	3,175	160	38	30	-	20,0	16,0	22,25	4139	●	●			
1.1/8-7	28,575	7	3,629	180	40	40	-	22,0	18,0	25,00	4141	○	○			
1.1/4-7	31,750	7	3,629	180	40	40	-	22,0	18,0	28,00	4143	○	○			
1.3/8-6	34,925	6	4,233	200	50	40	-	28,0	22,0	30,75	4145	○	○			
1.1/2-6	38,100	6	4,233	200	55	40	-	28,0	22,0	34,00	4147	○	○			
											Vc (m/min)					
											ISO					
											P	5-35	5-35			
											M	5-15	5-15			
											K	5-25	5-25			
											N	10-30	10-30			
											S	-	-			



American unified fine thread UNF, ANSI B-1.1												800X					
												B-TN2	C-R40-TN2				
Material groups																	
Hole type																	
Quality of material												HSSE	HSSE				
Coating												TN2	TN2				
Chamfer												B / 4-5P	C / 2-3P				
UNF	Ød ₁	1"/P	P	l ₁	l ₂	l ₂ R40	l ₃	Ød ₂	a		Norm	DIN-371					
											Tol.	2B	2B				
											INDEX	C2-113X01	C2-513X01				
No6-40	3,505	40	0,635	56	12	6	20	4,0	3,0	2,95	4206	○	○				
No8-36	4,165	36	0,705	63	12	7	21	4,5	3,4	3,50	4208	○	○				
No10-32	4,826	32	0,794	70	14	8	25	6,0	4,9	4,10	4210	●	●				
No12-28	5,486	28	0,907	80	18	10	30	6,0	4,9	4,60	4212	●	●				
1/4-28	6,350	28	0,907	80	18	10	30	7,0	5,5	5,50	4227	●	●				
5/16-24	7,938	24	1,058	90	20	13	35	8,0	6,0	6,90	4228	●	●				
3/8-24	9,525	24	1,058	100	20	15	39	10,0	8,0	8,50	4229	●	●				

UNF	Ød ₁	1"/P	P	l ₁	l ₂	l ₂ R40	l ₃	Ød ₂	a		Norm	DIN-374					
											Tol.	2B	2B				
											INDEX	D2-113X01	D2-513X01				
7/16-20	11,112	20	1,270	100	20	15	-	8,0	6,2	9,90	4230	●	●				
1/2-20	12,700	20	1,270	100	20	15	-	9,0	7,0	11,50	4231	●	●				
9/16-18	14,288	18	1,411	100	20	15	-	11,0	9,0	12,90	4232	●	●				
5/8-18	15,875	18	1,411	100	20	15	-	12,0	9,0	14,50	4233	●	●				
3/4-16	19,050	16	1,588	110	24	17	-	14,0	11,0	17,50	4235	●	●				
7/8-14	22,225	14	1,814	125	24	17	-	18,0	14,5	20,40	4237	●	●				
1-12	25,400	12	2,117	140	27	20	-	18,0	14,5	23,25	4239	●	●				
1.1/8-12	28,575	12	2,117	150	27	22	-	22,0	18,0	26,50	4241	○	○				
1.1/4-12	31,750	12	2,117	150	27	22	-	22,0	18,0	29,50	4243	○	○				
1.3/8-12	34,925	12	2,117	170	30	22	-	28,0	22,0	32,75	4245	○	○				
1.1/2-12	38,100	12	2,117	170	30	24	-	28,0	22,0	36,00	4247	○	○				
												ISO Vc (m/min)					
												P	5-35	5-35			
												M	5-15	5-15			
												K	5-25	10-25			
												N	10-30	10-30			
												S	-	-			

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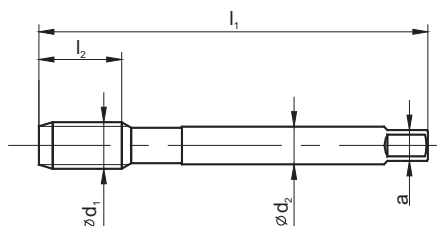
American unified fine thread UNEF, ANSI B-1.1



HSSE

TN2

DIN
~374



800X

B-TN2

C-R40-TN2



Material groups



Hole type



Quality of material

HSSE HSSE

Coating

TN2 TN2

Chamfer

B / 4-5P C / 2-3P

UNEF	Ød ₁	1"/P	P	l ₁	l ₂	l ₂ R40	l ₃	Ød ₂	a		Norm	~DIN-374					
											Tol.	2B	2B				
											INDEX	C2-113X01	C2-513X01				
1/4-32	6,350	32	0,794	80	14	8	-	4,5	3,4	5,55	4327	o	o				
5/16-32	7,938	32	0,794	80	14	8	-	6,0	4,9	7,15	4328	o	o				
3/8-32	9,525	32	0,794	90	18	8	-	7,0	5,5	8,70	4329	o	o				
7/16-28	11,112	28	0,907	90	18	10	-	8,0	6,2	10,20	4330	o	o				
1/2-28	12,700	28	0,907	100	18	10	-	9,0	7,0	11,80	4331	o	o				
9/16-24	14,288	24	1,058	100	18	11	-	11,0	9,0	13,20	4332	o	o				
5/8-24	15,875	24	1,058	100	18	11	-	12,0	9,0	14,80	4333	o	o				
3/4-20	19,050	20	1,270	110	25	13	-	14,0	11,0	17,80	4335	o	o				
7/8-20	22,225	20	1,270	125	25	13	-	18,0	14,5	20,95	4337	o	o				
1-20	25,400	20	1,270	140	28	13	-	18,0	14,5	24,15	4339	o	o				

ISO		V _c (m/min)					
P	5-35	5-35					
M	5-15	5-15					
K	5-25	10-25					
N	10-30	10-30					
S	-	-					

Example of order

C2-11X01-4327
Tap 800X 1/4-32 UNEF 2B DIN-374 B HSSE TN2

- Available from stock
- On request



Whitworth pipe thread G, DIN-ISO 228											800X					
HSSE TN2 DIN 5156											C-TN2	B-TN2	C-R40-TN2			
Material groups											P M K N S H	P M K N S H	P M K N S H			
Hole type											< 1.5d	< 3d	< 2.5d			
Quality of material											HSSE	HSSE	HSSE			
Coating											TN2	TN2	TN2			
Chamfer											C / 2-3P	B / 4-5P	C / 2-3P			
G	Ød ₁	1"/P	P	l ₁	l ₂	l ₂ R40	l ₃	Ød ₂	a		Norm	DIN-5156				
											Tol.					
											INDEX	D2-123X01	D2-113X01	D2-513X01		
G1/16	7,723	28	0,907	90	17	10		6,0	4,9	6,80	3121	○	○	○		
G1/8	9,728	28	0,907	90	18	10		7,0	5,5	8,80	3123	●	●	●		
G1/4	13,157	19	1,337	100	22	14		11,0	9,0	11,80	3127	●	●	●		
G3/8	16,662	19	1,337	100	22	15		12,0	9,0	15,25	3129	●	●	●		
G1/2	20,955	14	1,814	125	25	17		16,0	12,0	19,00	3131	●	●	●		
G5/8	22,911	14	1,814	125	25	20		18,0	14,5	21,00	3133	●	●	●		
G3/4	26,441	14	1,814	140	28	20		20,0	16,0	24,50	3035	●	●	●		
G7/8	30,201	14	1,814	150	30	22		22,0	18,0	28,25	3137	●	●	●		
G1	33,249	11	2,309	160	32	24		25,0	20,0	30,75	3139	●	●	●		
G1.1/8	37,907	11	2,309	170	34	24		28,0	22,0	35,50	3141	○	○	○		
G1.1/4	41,910	11	2,309	170	34	25		32,0	24,0	39,50	3143	○	○	○		
G1.1/2	47,800	11	2,309	190	36	-		36,0	29,0	45,25	3147	○	○	○		
G1.3/4	53,756	11	2,309	190	36	-		40,0	32,0	51,00	3151	○	○	○		
G2	59,614	11	2,309	220	40	-		45,0	35,0	57,00	3155	○	○	○		
											ISO			Vc (m/min)		
											P	5-35	5-35	5-20		
											M	5-15	5-15	5-15		
											K	5-25	10-25	5-15		
											N	10-30	10-30	5-25		
											S	-	-	-		