tapflo

FILTER PRESS PUMPS

2020 | 1



>> All about your flow ⊓

www.tapflo.com

>> All about your flow

We began our journey 40 years ago in Kungälv, a small town on the Swedish west coast, as a family company with an ambition to one day become a global player on the pump market.

Since 1980, we have taken pride in delivering a wealth of knowledge and passion for pumps to the industry, whilst supplying a wide range of premium products for various industrial applications.

Over the years, the company has developed into a global Tapflo Group with branches and distributors present in nearly every region of the world.

One thing did not change - we are still a family company.

Our solutions are designed and manufactured in Europe and distributed globally to offer the best service and flow solutions to our customers for a variety of applications.

Our values, Commitment, Quality and Simplicity are reflected both in our product and business approach.



For fast and flexible service and high-quality products readily available worldwide, choose Tapflo.

Quality commitment

At Tapflo we are simply committed to quality. As a result, our production standards, as well as products quality, comply with various globally recognised certification and quality control standards. The Tapflo manufacturing process is certified according to ISO 9001:2015, confirming that our processes are appropriate, effective, customer-focused and continuously improved.















Tapflo values

Our culture is concluded in Our values

Commitment

We are different from our competitors because of our willingness to exceed the customers' expectations, move fast and be flexible. Our culture is based on the spirit of togetherness, enthusiasm and integrity. We come from all over the world but we share the same values and we respect each other. We are committed.

Quality

We understand that the quality in our work is never better than the weakest link, that's why we focus on every small detail. We share a common passion for continuously finding more efficient and effective ways to provide value to our customers. As a manufacturer we have control of the complete process both in terms of our products and the way we operate internally. That is why we manufacture the highest quality pumps in our segment.

Simplicity

We have a saying, "Simple is art" which means we try to find smooth and uncomplicated solutions in everything. By keeping it simple we can focus on the essential, like designing uncomplicated pumps with few components. For us it is a key to success; strive to simplify what is complex.

Compact station

for feeding filter presses

Features & Benefits

 \checkmark

Optimal pressure amplification

The output pressure can be regulated up to 2:1 of input pressure



Plug & Play

The pressure booster is mounted directly on the pump making it a small and compact unit that can be assembled on the filter press



Simple operation principle

Due to its working principle the TF pump does not require any automation nor complicated safety features for proper operation



Robust design

Best durability thanks to balanced diaphragms and high pressure pump concept



Special design

Using of reinforcement plates, pinscrews and a hybrid air valve ensures reliable and maintenance free operation under high pressure

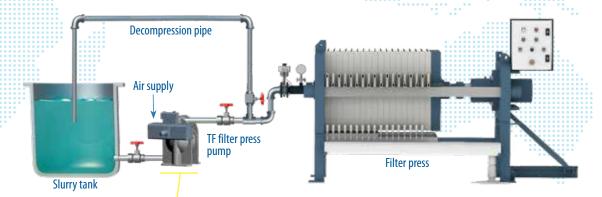


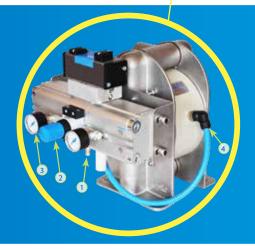
Diversity

All Tapflo pumps can be supplied with a booster making the range appropriate for almost any application

The Installation

Adding a pump to an existing filter press was never such easy. The pump is already equipped with a pressure booster, manometers, regulation knob and all essential hoses and fittings.



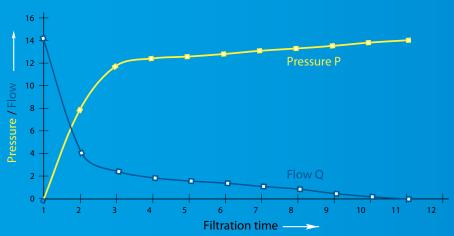


Working principle

The pump is driven by compressed air. The two diaphragms are connected by a diaphragm shaft and pushed back and forth by alternately pressurizing the air chambers behind the diaphragms using an automatically cycling air valve system. The only difference between TF and standard AODD pump is that the pump is not supplied with air directly but through pressure booster. The air supply is connected to port 1 in booster. The regulation knob 2 allows to adjust the amplification level up to 2:1 of input pressure. The manometers 3 show current settings.

The pressure builds up inside the booster and when it reaches the desired output pressure it is released to the pump inlet 4.

Typical filtration curve of a chamber filter press



At the beginning of slurry transfer to the filter press the pump operates with high flow but low pressure as the chamber of the filter press is empty.

Over time, when the filter press is filled, solids block the filter orifices therefore pressure builds up and simultaneously flow rate decreases gradually.

At the end, when the filter press is filled, flow is reduced to zero (the pump stops) and pressure is retained thus compressing the filter cake.

Components

Air valve



The TF series is equipped with a special, hybrid air valve comprising of a brass body and PET cylinder. The cylinder is made of a light material therefore it does not damage the air valve housing and the pump center body at high pressures.

Diaphragms



The composite design of Tapflo diaphragm makes it very durable even at higher operating pressures. Inside there is a reinforcement net and light metal core making it ideal for continuous heavy duty service. The face of the diaphragm is completely smooth so no metal parts come into contact with the pumped liquid and there is no leakage through it.

Reinforcements



All plastic TF pumps are equipped with stainless steel reinforcement plates to provide better rigidness of the pump making it more robust. To enhance stability even further, the plates are higher than the pump to support the discharge side of the pump. Aluminium pumps are screwed together by means of pinscrews instead of standard screws.

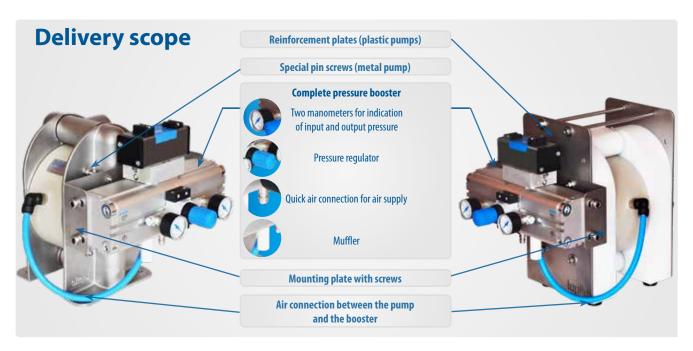
Ball check valves



Tapflo TF pump is fitted with four check valves, making sure that the liquid is transferred in the right direction through the pump. The valve is of ball type, the simplest and reliable valve design. It has a good sealing capability and is easy to keep clean and to replace if necessary. For better durability, the valve balls and valve seats can be manufactured in polyurethane or AISI 316L stainless steel.



New standard for reinforcement plates and booster holders for TF pump series



Complementary products

DTF dampener



Air treatment system



Our offer consists also of Tapflo active pulsation dampener prepared to work under higher pressure. The pulsation dampener is the most effective way to remove pressure variations on the discharge of the pump ensuring a stable and continuous flow into the pipeline. In the same way as with the pump, the plastic dampener is reinforced on both side by metal plates to ensure better rigidness of the whole assembly.

To ensure best air quality and therefore longest life of products, Tapflo offers a complete air treatment system. It can consist of the following devices:

- Filter regulator
- Needle valve
- Water separator

TF Pump Code F P -7PV 100 I. T = Tapflo diaphragm pump V. Material of diaphragms: **VII. Special executions:** E = EPDMII. Basic options: 1 = Optional in/outlet material N = NBR (nitrile rubber) B = Backup diaphragm pump 2 = Valve seat insert T = PTFE 3 = Optional connection type D = Drum pumpB = PTFE TFM 1705b 4 = Backup diaphragm system configuration F = Filter-press pump V = FKM (T50 and T70 only) 5 = Other special executions T = Twin inlet/outlet pump VI. Material of valve balls: 6 = Optional material of centre body IV. Material of wetted metal parts: E = EPDM7 = Optional material of air valve N = NBR (nitrile rubber) P = PE8 = Optional material of pos. 18 seals T = PTFE T = PTFE 9 = Optional material of housing pin screws S = AISI 316 stainless steel S = Stainless steel AISI316L 11 = Housing reinforcement plates P = PU (polyurethane) K = Ceramic 13 = Twin in-/outlet options C = Cast Iron V = FKM14 = Optional pump feet B = PTFE TFM 1635 19 = Filter press pumps special options

Performance

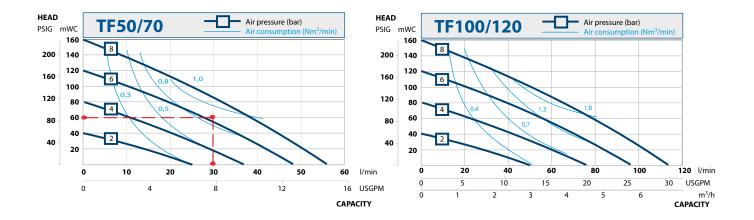
The performance curves are based on water at 20 °C. Other circumstances might change the performance.

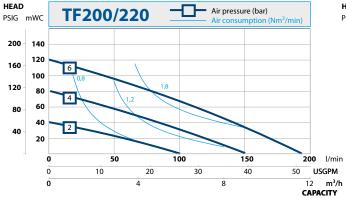
Example:

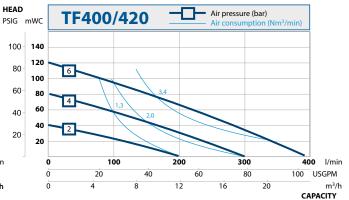
A flow of 30 liters/minute is desired. The discharge pressure is calculated to 60 mWC.

We choose a TF50 pump.

It requires air pressure of 6 bar and will consume approximately 0.80 Nm³ of air per minute.







Took wheel date	Pump size				
Technical data	TF50	TF100	TF200	TF400	
Max capacity* [l/min] / [US GPM]	55 / 14.5	112 / 29.6	195 / 51.5	390 / 103	
Volume per stroke** [ml] / [cu in]	116 / 7.08	305 / 18.6	854 / 52.1	2326 / 141.9	
Max discharge pressure [bar] / [psi]	16 / 232	16 / 232	12 / 174	12 / 174	
Max air pressure [bar] / [psi]	8/116	8/116	6 / 87	6 / 87	
Max suction lift dry*** [m] / [Ft]	2.5 / 8	3.5 / 11	4/13	4/13	
Max suction lift wet [m] / [Ft]	8/26	8/26	8/26	8/26	
Max size of solids ø in [mm] / [in]	4/0.16	6 / 0.24	10 / 0.39	15 / 0.59	
Max temp. pump in PE [°C] / [°F]	70 / 158	70 / 158	70 / 158	70 / 158	
Weight of pump in PE [kg] / [lb]	8 / 17.6	21.6 / 47.6	49 / 108	78 / 172	

Technical data	Pump size			
Technical data	TF70	TF120	TF220	TF420
Max capacity* [l/min] / [US GPM]	55 / 14.5	112 / 29.6	195 / 51.5	390 / 103
Volume per stroke - stainless steel** [ml] / [cu in]	101 / 5.34	280 / 17.1	933 / 56.9	2300 / 140.3
Volume per stroke - aluminium ** [ml] / [cu in]	105 / 6.41	272 / 16.6	884 / 53.95	2440 / 148.90
Max discharge pressure [bar] / [psi]	16 / 232	16/232	14/203	14/203
Max air pressure [bar] / [psi]	8/116	8/116	7 / 101.5	7 / 101.5
Max suction lift dry*** [m] / [Ft]	3 / 9.8	4/13	4/13	4/13
Max suction lift wet [m] / [Ft]	8/26	8/26	8/26	8/26
Max size of solids ø in [mm] / [in]	4/0.16	6/0.24	10 / 0.39	15 / 0.59
Max temperature with EPDM/NBR [°C] / [°F]	80 / 176	80 / 176	80 / 176	80 / 176
Max temperature with PTFE [°C] / [°F]	110 / 230	110 / 230	110/230	110 / 230
Weight in aluminium [kg] / [lb]	11 / 24.3	16.3 / 35.9	35 / 77.2	51.6 / 113.8
Weight in AISI 316 [kg] / [lb]	16 / 35.3	23.5 / 51.8	51.6 / 113.8	69 / 152.1

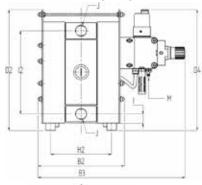
 $^{^*}$ = Max flow is obtained when using a bypass around the pressure booster at low pressure.

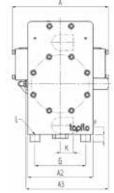
^{** =} Based on pumps with PTFE diaphragms. Pumps with EPDM diaphragms have higher volume per stroke.

^{*** =} With stainless steel valve balls, other materials may reduce suction. Please consult us in this matter.

Technical data

Plastic pumps





DIM

A2

А3

B2

ВЗ

D2

H2

12

L

172

6.77

150

5.91

167

6.57

196

7.72

276

10.87

263

10.35

352 13.86 15

116

4.57

130

5.12

20

0.79

190

7.48

25

7.48

M8x20

G1/8" / DN10

G%/DN10

PLASTIC PUMP SIZE

G½/DN10

100

319

12.56

200

7.87

274

10.79

260

10.24

17.48

14.33

15

140

5.51

156

6.14

28

1.10

252

9.92

38

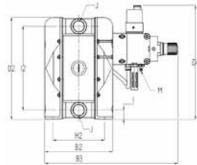
9.92

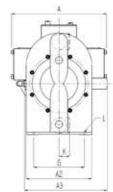
M8x20

G¼"/DN10

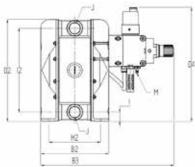
G¼/DN10

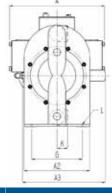
Stainless steel pumps





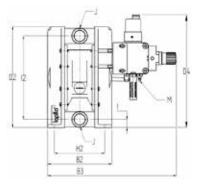
JMP SIZE		DIM	
200	400	DIM	
398	398		
15.67	15.67	A	
270	350	A2	
10.63	13.78	AZ	
341	405	А3	
13.43	15.94	A3	
360	436	B2	
14.17	17.17	B2	
620	691	В3	
24.41	27.20	В3	
500	610	D2	
19.69	24.02	D2	
501	583		
19.72	22.95	D4	
30	30	G	
1.18	1.18	G	
210	290		
8.27	11.42	H2	
254	322		
10.00	12.68	'	
38	48	12	
1.50	1.89	12	
345	440	J	
13.58	17.32		
11/2"	2"	К	
11/2	2	^	
54	70	L	
13.58	17.32	L	
M8x20	M8x20	м	
M8x20	M8x20	IVI	
G½"/DN10	G½" / DN10		

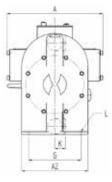




To To To To To To To To	DIM	STAINLESS STEEL PUMP SIZE			
A 6.77 12.56 15.67 15.67 A2 150 200 272 352 5.91 7.87 10.71 13.86 A3 160 239 342 389 6.30 9.41 13.46 15.31 B2 6.14 8.07 11.10 13.66 B3 253 407 560 624 9.96 16.02 22.05 24.57 D2 229 309 422 529 9.02 12.17 16.61 20.83 D4 165 332 464 551 C 116 160 210 280 A.57 6.30 8.27 11.02 H2 129 158 214 284 L 19 27 38 44 I 118 I 19 27 38 44 I 19 27 38 44 I 118 I 19 27 38 44 I 19 27 38 44 I 19 27 38 44 I 118 I 19 27 38 44 I 19 27 38 44 I 118 I 19 27 38 44 I 118 I 19 27 38 44 I 19 27 38 44 I 118 I 19 27 38 44 I 118 I 19 27 38 44 I 119 257 38 44 I 118 I 19 27 38 54 I 118 I 19 27 38 54 I 118 I 1 11½ 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		70	120	220	420
A2	A	172	319	398	398
A2 5.91 7.87 10.71 13.86 A3 160 239 342 389 6.30 9.41 13.46 15.31 B2 156 205 282 347 6.14 8.07 11.10 13.66 B3 253 407 560 624 9.96 16.02 22.05 24.57 D2 229 309 422 529 9.02 12.17 16.61 20.83 D4 165 332 464 551 6.50 13.07 18.27 21.69 G 116 160 210 280 4.57 6.30 8.27 11.02 H2 129 158 214 284 5.08 6.22 8.43 11.18 1 19 27 38 44 0.75 1.06 1.50 1.73 12 192 257 348 443 7.56 10.12 13.70 17.44 <		6.77	12.56	15.67	15.67
S.91 7.87 10.71 13.86 A3		150	200	272	352
A3 630 9.41 13.46 15.31 B2 156 205 282 347 6.14 8.07 11.10 13.66 B3 253 407 560 624 9.96 16.02 22.05 24.57 D2 229 309 422 529 9.02 12.17 16.61 20.83 D4 165 332 464 551 6.50 13.07 18.27 21.69 G 116 160 210 280 4.57 6.30 8.27 11.02 H2 129 158 214 284 1.18 1 1 1 27 38 44 1.18 1 1 0.75 1.06 1.50 1.73 12 192 257 348 443 17.56 10.12 13.70 17.44 14 15 16 40 52 70 80 1.57 2.05 2.76 3.15 8.5 8.5 8.5 10 0.33 0.33 0.33 0.39 6%**/DN10 G%**/DN10 G%**/DN10 G%**/DN10 G%**/DN10	AZ	5.91	7.87	10.71	13.86
B2		160	239	342	389
B2 6.14 8.07 11.10 13.66 B3 253 407 560 624 9.96 16.02 22.05 24.57 D2 229 309 422 529 9.02 12.17 16.61 20.83 D4 165 332 464 551 6.50 13.07 18.27 21.69 G 116 160 210 280 4.57 6.30 8.27 11.02 H2 129 158 214 284 5.08 6.22 8.43 11.18 I 19 27 38 44 0.75 1.06 1.50 1.73 12 192 257 348 443 J ½" 1" 1½" 2" ½" 1" 1½" 2" ½" 1 1½" 2" ½" 1" 1½" 2"	A3	6.30	9.41	13.46	15.31
B3	no.	156	205	282	347
B3	B2	6.14	8.07	11.10	13.66
Page		253	407	560	624
D2 9.02 12.17 16.61 20.83 D4 165 332 464 551 6.50 13.07 18.27 21.69 G 116 160 210 280 4.57 6.30 8.27 11.02 H2 129 158 214 284 5.08 6.22 8.43 11.18 19 27 38 44 10.75 1.06 1.50 1.73 12 192 257 348 443 17.56 10.12 13.70 17.44 J ½ 1 1 ½ 2 1 1 ½ 2 1 1 1½ 2 1 K 40 52 70 80 1.57 2.05 2.76 3.15 R 8.5 8.5 10 0.33 0.33 0.33 0.39 G%**/DN10 G%**/DN10 G%**/DN10 G%**/DN10 G%**/DN10	В3	9.96	16.02	22.05	24.57
Page	D 2	229	309	422	529
D4 6.50 13.07 18.27 21.69 G 116 160 210 280 4.57 6.30 8.27 11.02 H2 129 158 214 284 5.08 6.22 8.43 11.18 I 19 27 38 44 0.75 1.06 1.50 1.73 12 192 257 348 443 7.56 10.12 13.70 17.44 J ½" 1" 1½" 2" ½" 1 1½" 2 2" K 40 52 70 80 1.57 2.05 2.76 3.15 K 8.5 8.5 8.5 10 0.33 0.33 0.33 0.33 0.39 M 6%"/DN10 G%"/DN10 G%"/DN10 G%"/DN10	D2	9.02	12.17	16.61	20.83
Column C		165	332	464	551
G 4.57 6.30 8.27 11.02 H2 129 158 214 284 5.08 6.22 8.43 11.18 I 19 27 38 44 0.75 1.06 1.50 1.73 12 192 257 348 443 7.56 10.12 13.70 17.44 J ½° 1° 1½° 2° ½ 1 1½° 2° K 40 52 70 80 1.57 2.05 2.76 3.15 L 8.5 8.5 8.5 10 0.33 0.33 0.33 0.33 0.39 M 6½°/DN10 6½°/DN10 6½°/DN10 6½°/DN10	D4	6.50	13.07	18.27	21.69
H2	_	116	160	210	280
H2	G	4.57	6.30	8.27	11.02
1		129	158	214	284
1	H2	5.08	6.22	8.43	11.18
1.50 1.73 1.73 1.73 1.74 1.75		19	27	38	44
12 7.56 10.12 13.70 17.44 J	'	0.75	1.06	1.50	1.73
T.56 10.12 13.70 17.44 J 12" 11" 11½" 2" 14 1 1½ 2 15 70 80 1.57 2.05 2.76 3.15 1 8.5 8.5 8.5 10 0.33 0.33 0.33 0.39 M 6%"/DN10 G%"/DN10 G½"/DN10 G½"/DN10		192	257	348	443
J ½ 1 1½ 2 K 40 52 70 80 1.57 2.05 2.76 3.15 L 8.5 8.5 8.5 10 0.33 0.33 0.33 0.39 G/h"/DN10 G/h"/DN10 G/h"/DN10 G/h"/DN10	12	7.56	10.12	13.70	17.44
W 1 1½ 2 K 40 52 70 80 1.57 2.05 2.76 3.15 L 8.5 8.5 8.5 10 0.33 0.33 0.33 0.39 G/**/DN10 G/**/DN10 G/**/DN10 G/**/DN10		1/2"	1"	11/2"	2"
K 1.57 2.05 2.76 3.15 L 8.5 8.5 8.5 10 0.33 0.33 0.33 0.33 0.39 M G/4"/DN10 G/4"/DN10 G/4"/DN10 G/4"/DN10	,	1/2	1	11/2	2
L 0.33 0.33 0.33 0.39 0.39 0.39 0.39 0.39	К	40	52	70	80
L 0.33 0.33 0.33 0.39 0.39 0.39 0.39 0.39		1.57	2.05	2.76	3.15
0.33 0.33 0.33 0.39 G\(^w'\)/\(DN10\) G\(^w'\)/\(DN10\) G\(^w''\)/\(DN10\) G\(^w''\)/\(DN10\)	L	8.5	8.5	8.5	10
M		0.33	0.33	0.33	0.39
	M	G1/4" / DN10	G¼"/DN10	G1/2" / DN10	G½" / DN10
	IVI	G1/8 / DN10	G¼ / DN10	G½/DN10	G½/DN10

Aluminium/cast iron pumps





To To To To To To To To		ALUMINIUM / CAST IRON PUMP SIZE			
A 6.77 12.56 15.67 15.67 A2 151 200 275 356 5.94 7.87 10.83 14.02 B2 167 198 267 342 6.57 7.80 10.51 13.46 B3 10.43 15.94 21.34 25.08 D2 222 302 418 539 8.74 11.89 16.46 21.22 D4 167 331 467 559 6.57 13.03 18.39 22.01 G 4.57 6.30 8.66 11.02 H2 129 158 210 280 H2 129 158 210 280 H2 12 27 34 47 0.87 1.06 1.34 1.85 12 27 34 47 0.87 1.06 1.34 1.85 12 190 252 346 448 7.48 9.92 13.62 17.64 J ½" 1" 1½" 2" J ½ 1 1½ 2 K 1.14 1.30 1.77 3.15 L 0.39 0.39 0.39 0.39 G½"/DN10 G½"/DN10 G½"/DN10 G½"/DN10	DIM	70	120	220	420
A2	_	172	319	398	398
A2	A	6.77	12.56	15.67	15.67
S.94 7.87 10.83 14.02		151	200	275	356
B2 6.57 7.80 10.51 13.46 B3 265 405 542 637 10.43 15.94 21.34 25.08 D2 8.74 11.89 16.46 21.22 D4 167 331 467 559 6.57 13.03 18.39 22.01 G 116 160 220 280 4.57 6.30 8.66 11.02 129 158 210 280 4.57 6.30 8.66 11.02 I 22 27 34 47 0.87 1.06 1.34 1.85 12 190 252 346 448 7.48 9.92 13.62 17.64 J ½* 1" 1½* 2" J ½ 1 1½* 2" K 29 33 45 80 1.14 1.30 1.77 3.15 L 0.39 0.39 0.39 0.39 G½*/DN10 G½*/DN10 G½*/DN10 G½*/DN10	AZ	5.94	7.87	10.83	14.02
B3		167	198	267	342
B3	B2	6.57	7.80	10.51	13.46
D2		265	405	542	637
D2 8.74 11.89 16.46 21.22 D4 167 331 467 559 6.57 13.03 18.39 22.01 G 116 160 220 280 4.57 6.30 8.66 11.02 H2 129 158 210 280 5.08 6.22 8.27 11.02 I 0.87 1.06 1.34 1.85 12 190 252 346 448 7.48 9.92 13.62 17.64 J J V* 1" 1½ 2" J K 29 33 45 80 1.14 1.30 1.77 3.15 L 0.39	В3	10.43	15.94	21.34	25.08
B.74		222	302	418	539
D4 6.57 13.03 18.39 22.01 G 116 160 220 280 4.57 6.30 8.66 11.02 H2 129 158 210 280 5.08 6.22 8.27 11.02 I 22 27 34 47 0.87 1.06 1.34 1.85 12 190 252 346 448 7.48 9.92 13.62 17.64 J ½° 1" 1½° 2" J ½° 1" 1½° 2" K 1.14 1.30 1.77 3.15 L 0.39 0.39 0.39 0.39 0.39 M G/*/DN10 G/*/DN10 G/*/DN10 G/*/DN10 G/*/DN10	D2	8.74	11.89	16.46	21.22
G.57 13.03 18.39 22.01 G 116 160 220 280 4.57 6.30 8.66 11.02 H2 129 158 210 280 5.08 6.22 8.27 11.02 1 22 27 34 47 0.87 1.06 1.34 1.85 12 190 252 346 448 7.48 9.92 13.62 17.64 J ½" 1" 1½" 2" ½ 1 1½ 2 K 29 33 45 80 1.14 1.30 1.77 3.15 L 0.39 0.39 0.39 0.39 G%"/DN10 G%"/DN10 G%"/DN10 G%"/DN10		167	331	467	559
G 4.57 6.30 8.66 11.02 H2 129 158 210 280 5.08 6.22 8.27 11.02 I 22 27 34 47 0.87 1.06 1.34 1.85 12 190 252 346 448 7.48 9.92 13.62 17.64 J ½° 1° 1½° 2° ½ 1 1½° 2° K 29 33 45 80 1.14 1.30 1.77 3.15 L 10 10 10 10 0.39 0.39 0.39 0.39 M 6½°/DN10 6½°/DN10 6½°/DN10	D4	6.57	13.03	18.39	22.01
H2	_	116	160	220	280
H2 Solution 10 10 10 10 10 10 10 10 10 10 10 10 10	G	4.57	6.30	8.66	11.02
1		129	158	210	280
1	H2	5.08	6.22	8.27	11.02
1.06		22	27	34	47
12	'	0.87	1.06	1.34	1.85
T.48 9.92 13.62 17.64 J 1" 1½" 2" ½ 1 1 1½ 2 K 29 33 45 80 1.14 1.30 1.77 3.15 L 0.39 0.39 0.39 0.39 G%"/DN10 G%"/DN10 G½"/DN10 G½"/DN10		190	252	346	448
J ½ 1 1½ 2 K 29 33 45 80 1.14 1.30 1.77 3.15 L 10 10 10 10 0.39 0.39 0.39 0.39 G%"/DN10 G%"/DN10 G½"/DN10 G½"/DN10	12	7.48	9.92	13.62	17.64
M 1/2 1 1 ½ 2 29 33 45 80 1.14 1.30 1.77 3.15 L 10 10 10 10 0.39 0.39 0.39 0.39 G/h"/DN10 G/h"/DN10 G/h2"/DN10 G/h2"/DN10		1/2"	1"	1 ½"	2"
K 1.14 1.30 1.77 3.15 L 10 10 10 10 0.39 0.39 0.39 0.39 M G/k"/DN10 G/k"/DN10 G/k"/DN10 G/k"/DN10	,	1/2	1	1 1/2	2
L 0.39 0.39 0.39 0.39 0.39 0.39 0.39 0.39	v	29	33	45	80
L 0.39 0.39 0.39 0.39 0.39 G/%"/DN10 G/%"/DN10 G/%"/DN10 G/%"/DN10 G/%"/DN10	Α.	1.14	1.30	1.77	3.15
0.39 0.39 0.39 0.39 G/\(^{\text{M}'}/\text{DN10}\) G/\(^{\text{M}''}/\text{DN10}\) G/\(^{\text{M}''}/\text{DN10}\) G/\(^{\text{M}''}/\text{DN10}\)		10	10	10	10
M		0.39	0.39	0.39	0.39
		G1/8" / DN10	G¼" / DN10	G½" / DN10	G½" / DN10
	IVI	G% / DN10	G¼ / DN10	G½/DN10	G½/DN10

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