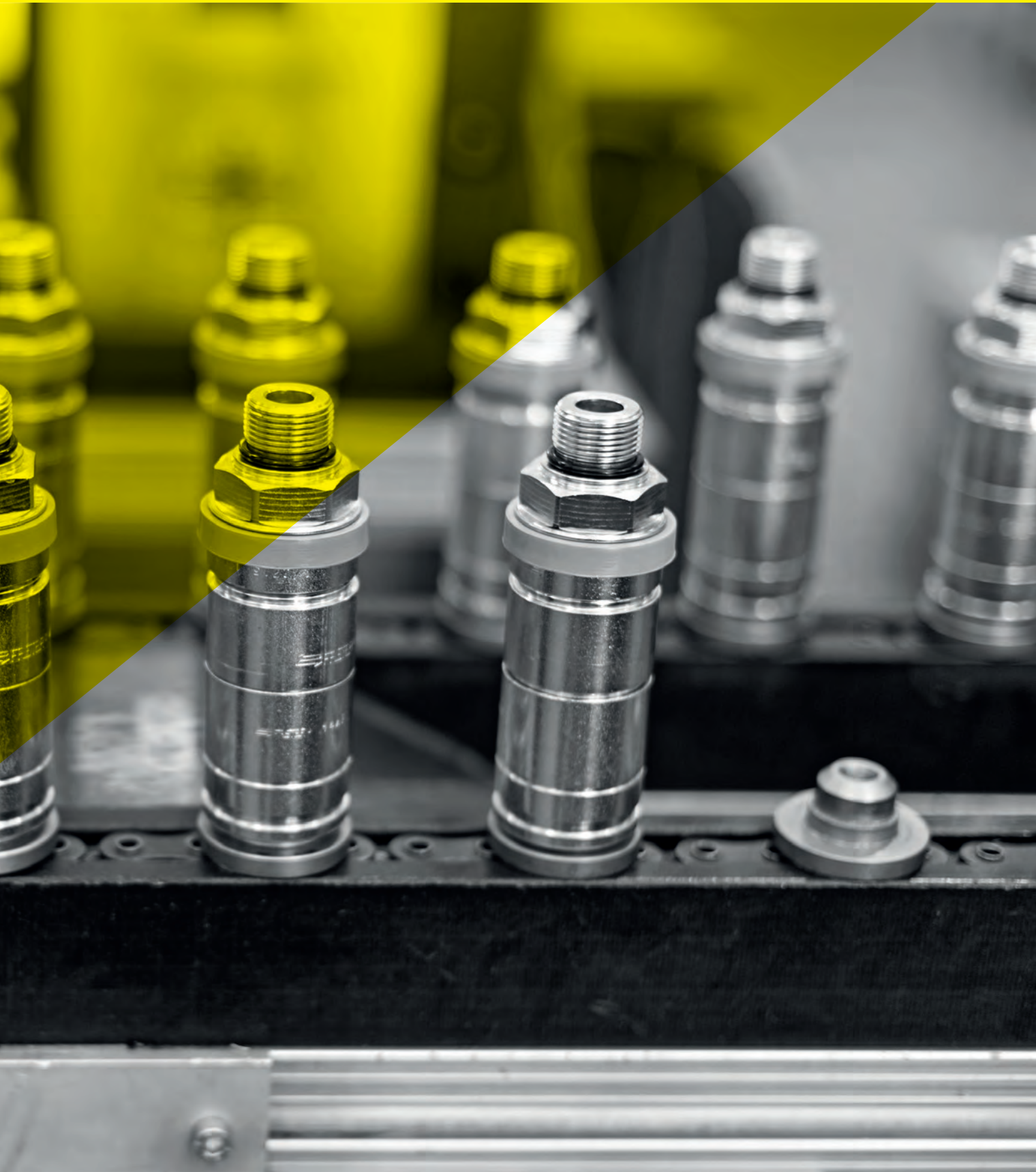
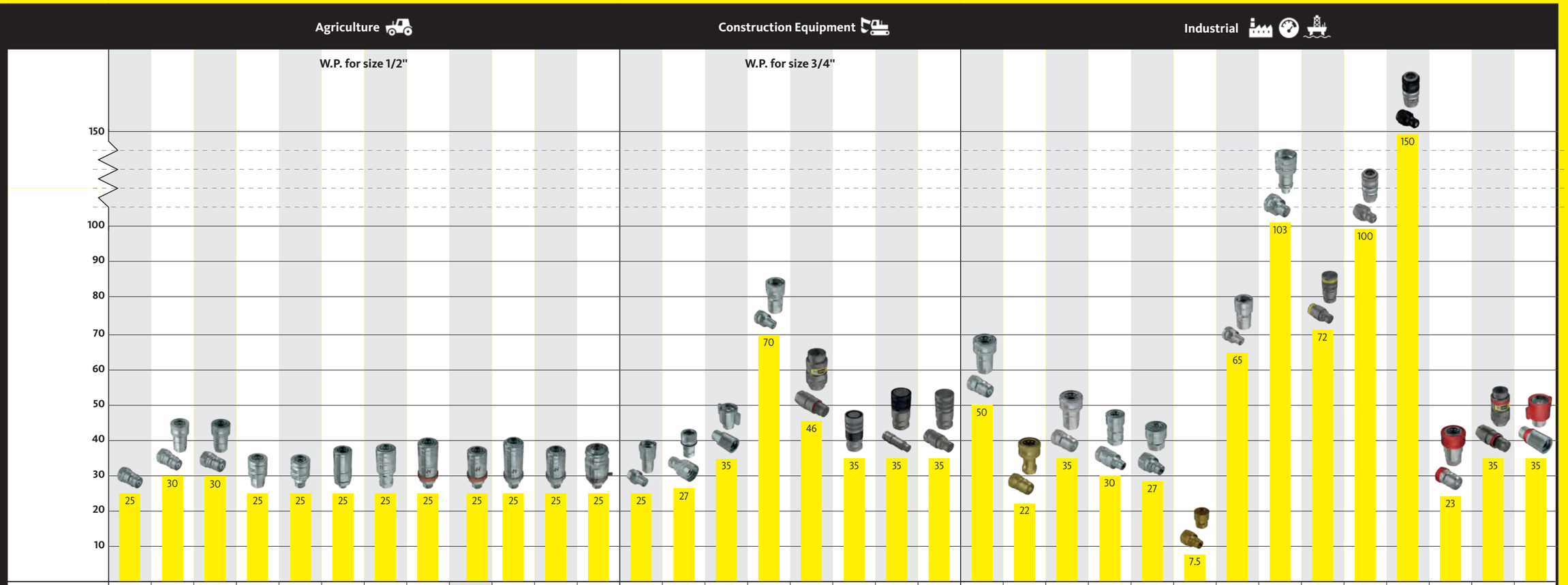
Faster®

easier to connect.

Catalog





Series		AGRI	NV	ANV	PV	CPV	CFPV	3CPV	3CFHF	3CKHF	4SRHF	4SKHF	6DNPV	VV	CVV	OGV	VVS	FHV	FSH	3FFH	FFH	HNV	HNV Brass	HNV SST	TNV	TNL	TNL Brass	VVS SST	PVVM	FFHP	UHP 100	UHP 150	HNVFR	FHVFR	OGVFR
Material	Steel	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇			◇	◇			◇	◇	◇	◇	◇	◇	◇
	Stainless Steel																							◇				◇							
	Brass																						◇				◇								
Surface Treatment	CrIII ▲	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇					◇			◇	◇			◇				◇		◇
	Zn-Ni ■																	◇	◇	◇	◇									◇	◇	◇		◇	
Working Temperature	°C	-25 +125	-25 +125	-25 +125	-25 +125	-25 +125	-25 +125	-25 +125	-25 +100	-25 +100	-25 +100	-25 +100	-25 +125	-25 +125	-25 +125	-25 +100	-25 +125	-20 +100	-25 +100	-25 +100	-25 +100	-25 +125	-25 +125	-20 +200	-25 +125	-25 +125	-25 +125	-20 +200	-25 +125	-25 +100	-25 +100	-25 +100	BOP	BOP	BOP
Seals		NBR	NBR*	NBR	NBR	NBR	NBR	NBR	PUR	PUR	PUR	PUR	NBR PUR	NBR	NBR*	NBR PUR	NBR	FKM PUR	NBR PUR	NBR PUR	NBR* PUR	NBR	NBR*	FKM	NBR	NBR*	NBR	FKM	NBR	NBR PUR	NBR	NBR	SPECIAL	SPECIAL	SPECIAL
Connection Type	Sleeve retraction		◇	◇	◇	◇		◇														◇	◇	◇	◇	◇	◇				◇	◇	◇		
	Push-Pull				◇**	◇**	◇	◇**	◇	◇	◇	◇	◇																							
	Push to connect																		◇	◇	◇									◇					
	Screw to connect													◇	◇	◇	◇	◇										◇	◇					◇	◇
Breakaway					◇	◇	◇	◇	◇	◇	◇	◇	◇																						
Connection under Residual Pressure	Male half only							◇	◇	◇								◇																◇	
	In only one of the two halves													◇	◇	◇	◇			◇								◇	◇						◇
	Both M+F together										◇	◇	◇																						
	Disconnection under pressure												◇																						
ISO Interchange		Agriculture products size 1/2" are interchangeable according to ISO 7241 Part A													14541				16028	16028	16028	7241-B	7241-B	7241-B					14540				7241-B		

▲ 500 hours resistance to corrosion in Neutral Salt Spray test according to ISO 9227 | ■ 1000 hours resistance to corrosion in Neutral Salt Spray test according to ISO 9227 | * Part number ending in V have seals in FKM and consequently a WT of -20 °C + 200 °C | ** When panel mounted

With more than 70 years of experience in the hydraulic industry, Faster has designed and manufactured over 500 million quick-release couplings and has registered more than 100 patents.
Our product portfolio entails several solutions, grouped into 3 main areas: Single Couplings, Castings Solutions and MultiFaster. Our offer covers a wide range of applications, including Agriculture, Construction Equipment, High Pressure and Industrial. We strongly believe in continuous research for innovation. Our challenge is to increase our competitiveness by offering high quality products with agile production processes, while paying careful attention to our customers' needs. Today, Faster is a primary force for research, design and production of hydraulic quick-release couplings. Thanks to their high-level technology, our products can easily answer various market requests and meet specific requirements, set by the international standards and by different manufacturers.

Couplings **6**
- Sleeve Retraction
- Agriculture
- Flat Face
- Screw to Connect
- Check Valves and Diagnostic
- High Pressure
- BOP
- Refrigeration
- Coupling Accessories

Casting Solutions **264**
- 4BD4FH
- Flex Cart
- 4DCPV
- Casting for Agriculture
- 5BM5DCPV
- 4BD4FH Cartridges replacement kit

MultiFaster **276**
- MultiFaster Standard
- MultiFaster Harvesting
- MultiFaster G Type
- MultiFaster High Pressure

Product Index

Sleeve Retraction — Page 6



General purpose couplings with sleeve retraction connection type. Interchangeable according to ISO A, ISO B or market standard.

Agriculture — Page 48



Couplings designed for agricultural application, interchangeable according to ISO 7241 Part A.

Flat Face — Page 120



Couplings equipped with flat-face valve to prevent spillage, therefore easier to clean.

Screw to Connect — Page 158



Screw to connect couplings, specifically designed to resist vibrations.

Check Valves and Diagnostic — Page 194



Non-returning valves used to control the oil flow in just one direction. Diagnostic: couplings used to check various points of the hydraulic system.

High Pressure — Page 206



Couplings designed for high pressures applications.

BOP — Page 218



Thanks to specific components and seals, these couplings are API certified and suitable for BOP application.

Refrigeration — Page 226



Couplings specifically designed for air conditioning and refrigeration systems.

Casting Solutions — Page 264



Castings equipped with cartridges and internal pressure eliminator.

MultiFaster — Page 276



System with lever that allows to connect several hydraulic lines simultaneously. Possibility to have electrical connection integrated.

WARNING: This product can expose you to chemicals such as Lead or Nickel which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Check Valves and Diagnostic

Non-returning valves used to control the oil flow in just one direction. Diagnostic: couplings used to check various points of the hydraulic system.

VU	page 195
VUC	page 199
DF	page 203
Couplings Accessories	page 242

VU

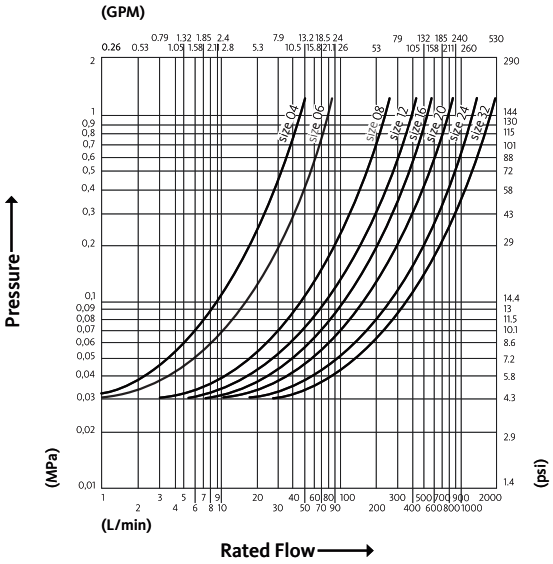
Standard check valves.

Check valves acting as a safety device into hydraulic systems. Standard versions contain a spring set to open the valve at 35 KPa; the range of settings is wide (up to 950 kPa). Normally available with inlet and outlet female threads.



Applications

Pressure Drop



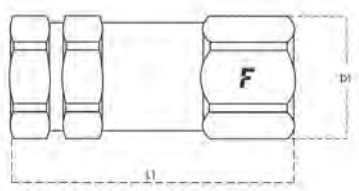
Test performed according to ISO 18869

Technical Specifications

dash	Size mm	inch	Working Pressure (MPa)	Flow Rate (l/min)	Spillage (ml)	Force to Connect (N)	Burst pressure (MPa) Male	Female	Male + Female
04	6.3	1/4"	50	17					200
06	10	3/8"	27	30					110
08	12.5	1/2"	35	90					140
12	20	3/4"	25	140					100
16	25	1"	25	200					100
20	31.5	1-1/4"	25	300					100
24	37.5	1-1/2"	20	500					80
32	50	2"	13	700					52

Material	**Steel**
Seals	**NBR**
Working temperatures	**- 25 °C to + 125 °C**
Surface treatment	**MATE 500 (CrIII)**
Series Interchange	

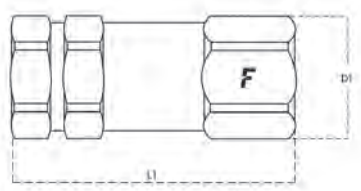
Valve Type	**Poppet**
Connection	
Disconnection	
Connection Under Pressure	



VU

Thread details in the first line are referred to Thread 1, thread details in the second line are referred to Thread 2 - outlet.

Size		Thread details										Pressure
mm	inch	Thread Type	Standard	Thread	Part Number	L (L1 + Thread) mm	L (L1 + Thread) inch	D1 mm	D1 inch	HEX1 mm	HEX1 inch	Cracking Pressure
6.3	1/4"	27/ SAE	ISO 8434-3	9/16"-18 UNF FEMALE	VUS27/CS11/CSBS	54	2.13	19	0.75	17	0.67	50 kPa
		11/ SAE	ISO 8434-3	9/16" – 18 UNF MALE								
6.3	1/4"	27/ SAE	ISO 8434-3	9/16"-18 UNF FEMALE	VUJ27/CS11/CSBS *	54	2.13	19	0.75	17	0.67	50 kPa
		11/ SAE	ISO 8434-3	9/16" – 18 UNF MALE								
6.3	1/4"	16/ BSPP	ISO 8434-6	60° 1/4 BSPP MALE	VU14M 14M	50	1.97	24.5	0.96	22	0.87	35 kPa
6.3	1/4"	F NPTF	ANSI B1.20.3	NPTF 1/4" FEMALE	VU14FN 14FN	50	1.97	21	0.83	19	0.75	35 kPa
6.3	1/4"	F BSPP	ISO 1179-1	BSPP 1/4" FEMALE	VU14F 14F C	50	1.97	21	0.83	19	0.75	100 kPa
6.3	1/4"	F BSPP	ISO 1179-1	BSPP 1/4" FEMALE	VU14F 14F B	50	1.97	21	0.83	19	0.75	50 kPa
6.3	1/4"	F BSPP	ISO 1179-1	BSPP 1/4" FEMALE	VU14F 14F A2	50	1.97	21	0.83	19	0.75	20 kPa
6.3	1/4"	F BSPP	ISO 1179-1	BSPP 1/4" FEMALE	VU14F 14F	50	1.97	21	0.83	19	0.75	35 kPa
10	3/8"	16/ BSPP	ISO 8434-6	60° 3/8 BSPP MALE	VU38M 38M V	50	1.97	24.5	0.96	22	0.87	35 kPa
10	3/8"	16/ BSPP	ISO 8434-6	60° 3/8 BSPP MALE	VU38M 38M	50	1.97	24.5	0.96	22	0.87	35 kPa
10	3/8"	F NPTF	ANSI B1.20.3	NPTF 3/8" FEMALE	VU38FN 38MN	58.1	2.29	24.5	0.96	22	0.87	35 kPa
10	3/8"	F NPTF	ANSI B1.20.3	NPTF 3/8" FEMALE	VU38FN 38FN	60	2.36	27	1.06	24	0.94	35 kPa
10	3/8"	F BSPP	ISO 1179-1	BSPP 3/8" FEMALE	VU38F 38F B	60	2.36	27	1.06	24	0.94	50 kPa
10	3/8"	F BSPP	ISO 1179-1	BSPP 3/8" FEMALE	VU38F 38F	60	2.36	27	1.06	24	0.94	35 kPa
12.5	1/2"	01/ SAE	ISO 11926-3	3/4"-16 UNF MALE	VU41/FS-11/HS I	63.5	2.5	30	1.18	27	1.06	400 kPa
12.5	1/2"	01/ SAE	ISO 11926-3	3/4"-16 UNF MALE	VU41/FS-11/HS E	63.5	2.5	30	1.18	27	1.06	200 kPa
12.5	1/2"	01/ SAE	ISO 11926-3	3/4"-16 UNF MALE	VU41/FS-11/HS C	63.5	2.5	30	1.18	27	1.06	100 kPa
12.5	1/2"	35/ SAE	ISO 8434-3	13/16"-16 UN FEMALE ORFS	VU27/FS-11/FS B	59.5	2.34	30	1.18	27	1.06	50 kPa
12.5	1/2"	01/ BSPP	ISO 1179-3	1/2" BSPP MALE	VU21/DG-11/HS I	64.6	2.54	30	1.18	27	1.06	400 kPa
12.5	1/2"	02/ METRIC	ISO 8434-1-L	M22x1.5 MALE 15L	VU2/FM-3/GM	120	4.72	30	1.18	27	1.06	35 kPa
12.5	1/2"	02/ METRIC	ISO 8434-1-L	M18x1.5 MALE 12L	VU2/DM-2/DM H	52.4	2.06	30	1.18	27	1.06	350 kPa
12.5	1/2"	13/ SAE	ISO 8434-2	7/8"-14 UNF MALE JIC	VU13/GS-1/GS H	66.7	2.63	30	1.18	27	1.06	350 kPa
12.5	1/2"	13/ SAE	ISO 8434-2	3/4"-16 UNF MALE JIC	VU13/FS-28/FS B	64	2.52	30	1.18	27	1.06	50 kPa
12.5	1/2"	F NPTF	ANSI B1.20.3	NPTF 1/2" FEMALE	VU12M 12M M	56	2.2	30	1.18	27	1.06	500 kPa
12.5	1/2"	F NPTF	ANSI B1.20.3	NPTF 1/2" FEMALE	VU12FN 12FN M	70	2.76	30	1.18	27	1.06	500 kPa
12.5	1/2"	F NPTF	ANSI B1.20.3	NPTF 1/2" FEMALE	VU12FN 12FN	70	2.76	30	1.18	27	1.06	35 kPa
12.5	1/2"	F BSPP	ISO 1179-1	BSPP 1/2" FEMALE	VU12F 12F M	70	2.76	30	1.18	27	1.06	500 kPa
12.5	1/2"	F BSPP	ISO 1179-1	BSPP 1/2" FEMALE	VU12F 12F C	70	2.76	30	1.18	27	1.06	100 kPa
12.5	1/2"	F BSPP	ISO 1179-1	BSPP 1/2" FEMALE	VU12F 12F B	70	2.76	30	1.18	27	1.06	50 kPa
12.5	1/2"	01/ BSPP	ISO 1179-3	3/8" BSPP MALE	VU1/CG-11/HS I	62.6	2.46	30	1.18	27	1.06	400 kPa
12.5	1/2"	01/ BSPP	ISO 1179-3	3/8" BSPP MALE	VU1/CG-11/HS G	62.6	2.46	30	1.18	27	1.06	300 kPa
12.5	1/2"	01/ BSPP	ISO 1179-3	3/8" BSPP MALE	VU1/CG-11/HS E	62.6	2.46	30	1.18	27	1.06	200 kPa
12.5	1/2"	01/ BSPP	ISO 1179-3	3/8" BSPP MALE	VU1/CG-11/HS C	62.6	2.46	30	1.18	27	1.06	100 kPa
12.5	1/2"	16/ BSPP	ISO 8434-6	60° 1/2 BSPP MALE	VU12M 12M	56	2.2	30	1.18	27	1.06	35 kPa
12.5	1/2"	F BSPP	ISO 1179-1	BSPP 1/2" FEMALE	VU12F 12F	70	2.76	30	1.18	27	1.06	35 kPa
20	3/4"	01/ SAE	ISO 11926-3	7/8"-14 UNF MALE	VU41/GS-11/GS I	70.3	2.77	42	1.65	38	1.5	400 kPa
20	3/4"	0/ SAE	ISO 11926-1	1-1/16"-12 UN FEMALE ORB	VU34FS 34FS	88	3.46	40	1.57	36	1.42	35 kPa
20	3/4"	F NPTF	ANSI B1.20.3	NPTF 3/4" FEMALE	VU34FN 34FN M	86	3.39	38	1.5	34	1.34	500 kPa
20	3/4"	F NPTF	ANSI B1.20.3	NPTF 3/4" FEMALE	VU34FN 34FN	86	3.39	38	1.5	34	1.34	35 kPa
20	3/4"	F BSPP	ISO 1179-1	BSPP 3/4" FEMALE	VU34F 34F V	86	3.39	38	1.5	34	1.34	35 kPa
20	3/4"	F BSPP	ISO 1179-1	BSPP 3/4" FEMALE	VU34F 34F B	86	3.39	38	1.5	34	1.34	50 kPa

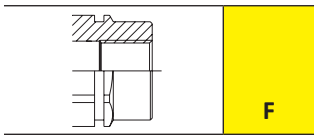


VU

Thread details in the first line are referred to Thread 1, thread details in the second line are referred to Thread 2 - outlet.

Size		Thread details										Pressure
mm	inch	Thread Type	Standard	Thread	Part Number	L (L1 + Thread) mm	L (L1 + Thread) inch	D1 mm	D1 inch	HEX1 mm	HEX1 inch	Cracking Pressure
20	3/4"	02/ METRIC	ISO 8434-1-L	M26x1.5 MALE 18L	VU2/HM-2/HM H	58.4	2.3	42	1.65	38	1.5	350 kPa
20	3/4"	01/ SAE	ISO 11926-3	1-1/16"-12 UN MALE	VU1/HS-11/LS P	70	2.76	42	1.65	38	1.5	600 kPa
20	3/4"	01/ SAE	ISO 11926-3	1-1/16"-12 UN MALE	VU1/HS-11/LS G	70	2.76	42	1.65	38	1.5	300 kPa
20	3/4"	F BSPP	ISO 1179-1	BSPP 3/4" FEMALE	VU34F 34F	86	3.39	38	1.5	34	1.34	35 kPa
25	1"	F NPTF	ANSI B1.20.3	NPTF 1" FEMALE	VU 1FN 1FN	100	3.94	44	1.73	41	1.61	35 kPa
25	1"	F BSPP	ISO 1179-1	BSPP 1" FEMALE	VU 1F 1F U	100	3.94	44	1.73	41	1.61	800 kPa
25	1"	F BSPP	ISO 1179-1	BSPP 1" FEMALE	VU 1F 1F M	100	3.94	44	1.73	41	1.61	500 kPa
25	1"	F BSPP	ISO 1179-1	BSPP 1" FEMALE	VU 1F 1F L	100	3.94	44	1.73	41	1.61	450 kPa
25	1"	F BSPP	ISO 1179-1	BSPP 1" FEMALE	VU 1F 1F G	100	3.94	44	1.73	41	1.61	300 kPa
25	1"	F BSPP	ISO 1179-1	BSPP 1" FEMALE	VU 1F 1F E	100	3.94	44	1.73	41	1.61	200 kPa
25	1"	F BSPP	ISO 1179-1	BSPP 1" FEMALE	VU 1F 1F B	100	3.94	44	1.73	41	1.61	50 kPa
25	1"	F BSPP	ISO 1179-1	BSPP 1" FEMALE	VU 1F 1F	100	3.94	44	1.73	41	1.61	35 kPa
31.5	1-1/4"	F NPTF	ANSI B1.20.3	NPTF 1-1/4" FEMALE	VU114FN 114FN L	130	5.12	55	2.17	50	1.97	450 kPa
31.5	1-1/4"	F NPTF	ANSI B1.20.3	NPTF 1-1/4" FEMALE	VU114FN 114FN	130	5.12	55	2.17	50	1.97	35 kPa
31.5	1-1/4"	F BSPP	ISO 1179-1	BSPP 1-1/4" FEMALE	VU114F 114F M	130	5.12	55	2.17	50	1.97	500 kPa
31.5	1-1/4"	F BSPP	ISO 1179-1	BSPP 1-1/4" FEMALE	VU114F 114F E	130	5.12	55	2.17	50	1.97	200 kPa
31.5	1-1/4"	F BSPP	ISO 1179-1	BSPP 1-1/4" FEMALE	VU114F 114F C	130	5.12	55	2.17	50	1.97	100 kPa
31.5	1-1/4"	F BSPP	ISO 1179-1	BSPP 1-1/4" FEMALE	VU114F 114F	130	5.12	55	2.17	50	1.97	35 kPa
31.5	1-1/4"	F BSPP	ISO 1179-1	BSPP 1-1/4" FEMALE	VU114F 114F B	130	5.12	55	2.17	50	1.97	50 kPa
37.5	1-1/2"	F BSPP	ISO 1179-1	BSPP 1-1/2" FEMALE	VU112F 112F U	145	5.71	66	2.6	60	2.36	800 kPa
37.5	1-1/2"	F BSPP	ISO 1179-1	BSPP 1-1/2" FEMALE	VU112F 112F I	145	5.71	66	2.6	60	2.36	400 kPa
37.5	1-1/2"	F BSPP	ISO 1179-1	BSPP 1-1/2" FEMALE	VU112F 112F	145	5.71	66	2.6	60	2.36	35 kPa
37.5	1-1/2"	F BSPP	ISO 1179-1	BSPP 1-1/2" FEMALE	VU112F 112F M	145	5.71	66	2.6	60	2.36	500 kPa
50	2"	F BSPP	ISO 1179-1	BSPP 2" FEMALE	VU 2F 2F I	160	6.3	90	3.54	75	2.95	400 kPa
50	2"	F BSPP	ISO 1179-1	BSPP 2" FEMALE	VU 2F 2F C	160	6.3	90	3.54	75	2.95	100 kPa
50	2"	F BSPP	ISO 1179-1	BSPP 2" FEMALE	VU 2F 2F	160	6.3	90	3.54	75	2.95	35 kPa

* O-ring for ORFS outlet adaptor (Faster code 11/..) is in NBR. hardness 90° Shore A.
Part number ending in V have seals in FKM and consequently a Working Temperature of -20 °C + 200 °C.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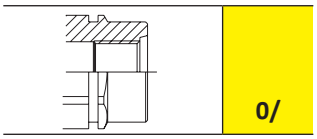
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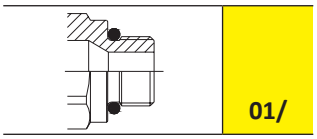
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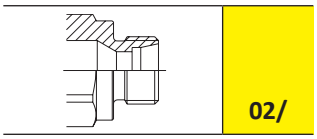
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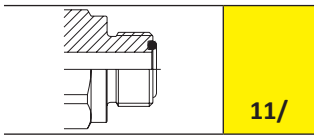
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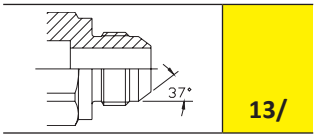

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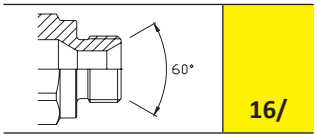

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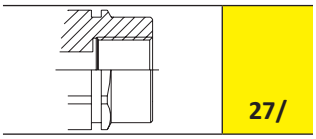
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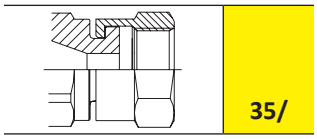
35/

Useful Information

Useful Information	
Glossary	page 410
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Fluid compatibility	page 420
Instructions and warnings for couplings	page 422
Instructions and warnings for MultiFaster	page 423

Glossary

Adaptor	Threaded component of a quick release coupling whose function is to allow connection of the coupling to hydraulic system.
Air Inclusion	Air quantity that, being entrapped between the two valves during connection phase, is directly conveyed into the hydraulic plant.
Antiextrusion / back-up ring	Ring-shaped component made of PTFE with quadrilateral section to prevent the extrusion of O-ring seal from its groove when high pressures are reached.
Breakaway	Standard safety feature (ISO 5675) for agricultural machines requiring that the automatic disconnection has to happen whenever, for any reason, an extreme pulling force is applied on the coupling itself. This may be due, for instance, to detachment and dragging of the equipment from the tractor.
Brinelling	Wear phenomenon caused by pressure inside of a quick release coupling. It is due to high loads concentrated on contact point between latching balls and groove on male half.
Connection Force	Value of the effort to perform the connection.
DN - Nominal Diameter	Dimension (in millimetres) of the nominal diameter of a quick release coupling, corresponding to the equivalent flow section.
Double Action Sleeve	Special sleeve (with a double internal balls groove) specifically designed to allow push-pull connection and disconnection. To achieve this kind of connection, the coupling has to be panel mounted.
Dynamic Pressure	Pressure value due to fluid motion in dynamic conditions, such as pressure peaks. In hydraulic circuits it generates fatigue stress on couplers. If added to Static Pressure, it results in Total Pressure of the fluid.
ISO Size	A dimensional number indicating the nominal size according to UNI-ISO 4397 standards.
Max. Working Pressure	Pressure level not to be exceeded for safety reasons. Maximum working pressure derives from the minimum burst pressure applying a suitable safety factor (Faster suggests a 4:1 ratio).

Glossary

Min. Burst pressure	Pressure level at which the quick release coupling damages itself with the consequent loss of functional and safety features. This value is obtained by carrying on burst test activities destroying samples in three situations: male disconnected, female disconnected, coupling connected.
Min. Flow Section	Minimum value of the flow section measured in correspondence with the most narrow passage through the quick release coupling.
Peak Pressure	Pressure value that is reached in a very short time and in non steady state.
Pressure Drop (Δp)	The difference between fluid pressure measured immediately before inlet and after outlet of an hydraulic component.
Rated Flow	Quantity of fluid (measured in liters per minute) flowing through the quick release coupling associated with a pressure drop (DP) of 0.2 MPa.
Residual Pressure	It is due to the fluid entrapped into the quick release coupling or in the hoses before it, once that valves have been closed.
Safety Sleeve	Auxiliary sleeve acting as a safety device by locking the main sleeve, in order to prevent accidental and unintentional disconnection due for instance to hoses vibrations.
Size	It indicates the nominal size of a quick release coupling, usually reported as an adimentional number (Dash size).
Spillage	The fluid volume (in cubic centimetres) being spilled from the quick release coupling during connection and disconnection.
Static Pressure	Pressure value in steady conditions, when it is constant or has slight fluctuations around its average. In hydraulic circuits it generates mechanical resistance stress on couplers. Added to Dynamic Pressure it results in Total Pressure of the fluid.
Viscosity	Fluid property related to fluid resististance while flowing through the quick release coupling. It is due to fluid chemical structure and physical properties. The coefficient of viscosity increases when temperature level decreases.

Size

Size		
dash	mm	inch
02	3,2	1/8
04	6,3	1/4
06	10	3/8
08	12,5	1/2
09	14,3	9/16
10	16	5/8
12	20	3/4
16	25	1
20	31,5	1-1/4
24	37,5	1-1/2
32	50	2

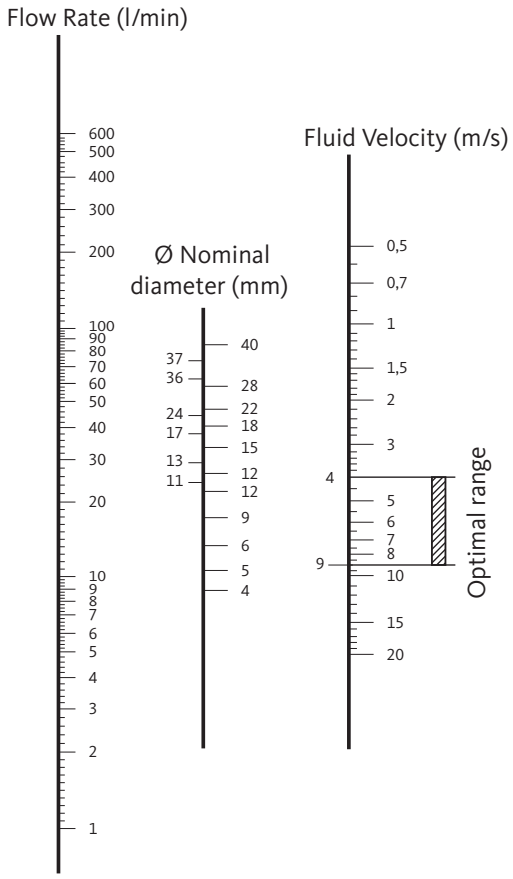
Conversion table

Flow	Force	Length	Pressure	Torque	Volume	Weight
1 CFM = 28.317 L/min	1 lbf = 0.454 kp	1 ft = 12.000 inch	1 atm = 1.013 bar	1 kpm = 7.233 lbfft	1 ft3 = 6.229 gluk	1 g = 0.001 Kg
1 CFM = 0.472 ls	1 lbf = 4.448 newton	1 ft = 0.305 m	1 atm = 0.101 MPa	1 kpm = 9.807 NNm	1 ft3 = 7.481 glus	1 g = 0.002 lb
1 CFM = 1.699 m3h		1 ft = 304.800 mm	1 atm = 14.696 PSI		1 ft3 = 28.317 liter	1 g = 0.035 oz
1 CFM = 6.229 gpmuk	1 kp = 2.205 lbf		1 atm = 1.033 kp-cm2	1 lbfft = 0.138 kpm	1 ft3 = 0.028 m3	
1 CFM = 7.481 gpmus	1 kp = 9.807 newton	1 inch = 0.083 ft		1 lbfft = 1.356 NNm		1 Kg = 1,000.000 g
		1 inch = 0.025 m	1 bar = 0.987 atm		1 gluk = 0.161 ft3	1 Kg = 2.205 lb
1 L/min = 0.035 CFM	1 newton = 0.225 lbf	1 inch = 25.400 mm	1 bar = 0.100 MPa	1 NNm = 0.102 kpm	1 gluk = 1.201 glus	1 Kg = 35.274 oz
1 L/min = 0.017 ls	1 newton = 0.102 kp		1 bar = 14.504 PSI	1 NNm = 0.738 lbfft	1 gluk = 4.546 liter	
1 L/min = 0.060 m3h		1 m = 3.281 ft	1 bar = 1.020 kp-cm2		1 gluk = 0.005 m3	1 lb = 453.592 g
1 L/min = 0.220 gpmuk		1 m = 39.370 inch				1 lb = 0.454 Kg
1 L/min = 0.264 gpmus		1 m = 1,000.000 mm	1 MPa = 9.869 atm		1 glus = 0.134 ft3	1 lb = 16.000 oz
			1 MPa = 10.000 bar		1 glus = 0.833 gluk	
1 ls = 2.119 CFM		1 mm = 0.003 ft	1 MPa = 145.038 PSI		1 glus = 3.785 liter	1 oz = 28.350 g
1 ls = 60.000 L/min		1 mm = 0.039 inch	1 MPa = 10.197 kp-cm2		1 glus = 0.004 m3	1 oz = 0.028 Kg
1 ls = 3.600 m3h		1 mm = 0.001 m				1 oz = 0.063 lb
1 ls = 13.198 gpmuk			1 PSI = 0.068 atm		1 liter = 0.035 ft3	
1 ls = 15.850 gpmus			1 PSI = 0.069 bar		1 liter = 0.220 gluk	
			1 PSI = 0.007 MPa		1 liter = 0.264 glus	
1 m3h = 0.589 CFM			1 PSI = 0.070 kp-cm2		1 liter = 0.001 m3	
1 m3h = 16.667 L/min						
1 m3h = 0.278 ls			1 kp-cm2 = 0.981 bar		1 m3 = 35.315 ft3	
1 m3h = 3.666 gpmuk			1 kp-cm2 = 0.098 MPa		1 m3 = 219.969 gluk	
1 m3h = 4.403 gpmus			1 kp-cm2 = 14.223 PSI		1 m3 = 264.172 glus	
			1 kp-cm2 = 0.968 atm		1 m3 = 1,000.000 liter	

Temperature

Seal compound	Faster PN Suffix	Temperature Range [°C]	Temperature range [°F]
NBR (Nitrile rubber)	-	- 25°C / + 125°C	- 13°F / + 257°F
HNBR (NBR Hydrogen)	H	- 25°C / + 140°C	- 13°F / + 284°F
Polyurethane	U	- 25°C / + 100°C	- 13°F / + 212°F
EPDM	E	- 40°C / + 150°C	- 40°F / +302°F
Neoprene	N	- 40°C / + 120°C	- 40°F / + 248°F
FKM (Viton®)	V	- 20°C / + 200°C	- 4°F / +392°F
PTFE (Teflon®)	P	- 200°C / + 260°C	- 328°F / + 500°F
FFKM (Kalrez®)	K	- 15°C / + 315°C	+5°F / + 599°F

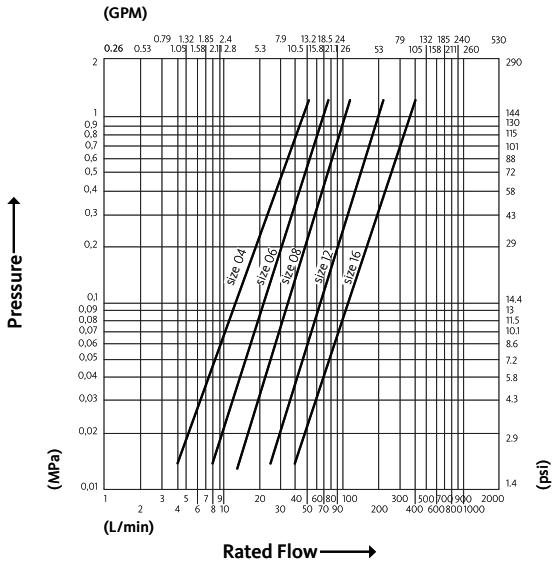
Coupler Selection



To select the most suitable coupling size for a specific desired flow rate, fluid velocity must be taken into account.

Referring to diagram shown in picture, once identified the required flow rate, you have to draw a line that reaches the advised value of velocity (we recommend keeping the fluid velocity between 3-9 m/s, optimal value: 4-5 m/s).
The line crosses the central column in correspondence with the nominal diameter.

After choosing the product series that is most suitable to coupler application, pick the coupling size corresponding to the nominal diameter value.
EXAMPLE:
Required flow = 40 l/min
Nominal Diameter = 13 mm @fluid velocity = 5m/s
Coupling Size = 12.5 mm (1/2")

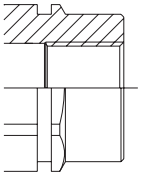
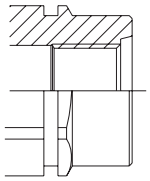
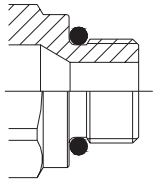
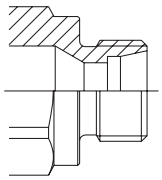
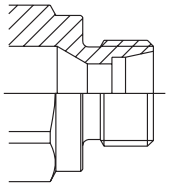
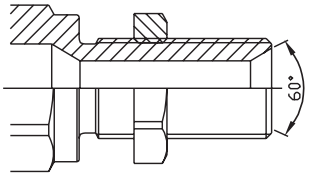
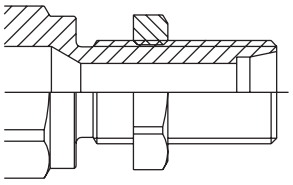


Faster catalog includes double-logarithmic scale diagrams, which show pressure drop in relation to flow rate for each type of coupling and for each available size.

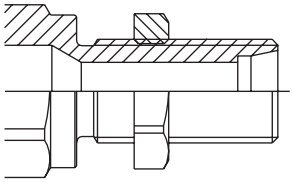
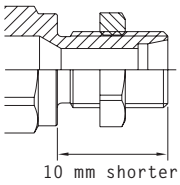
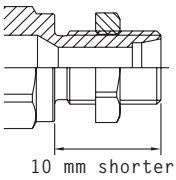
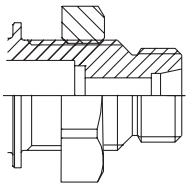
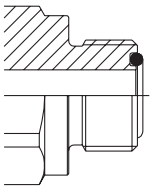
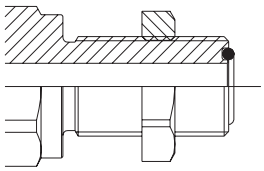
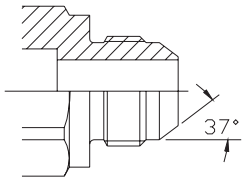
Diagrams are results of tests performed by Faster according to the ISO 18869 normative, therefore can be used to determine the Rated Flow value setting a 0.2 MPa pressure drop.

Rated Flow is used for preliminary sizing of Quick Release Couplings, and it is specified in Technical Data tabs available for each Faster product series.

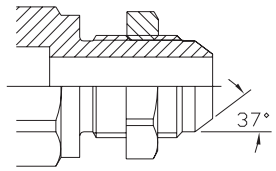
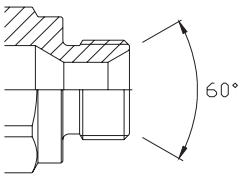
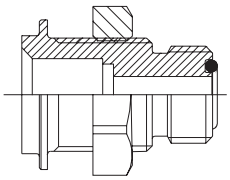
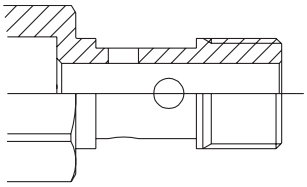
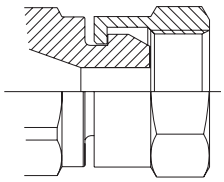
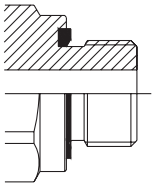
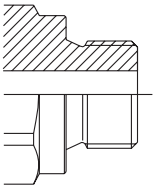
Thread Faster - standard

Code	Drawing	Description	Thread	Standards
F		Standard female thread	BSP	ISO 1179-1
			METRIC	ISO 9974-1
			NPT	ANSI B1.20.3
			JPT	JIS B 0203
			Rc	EN10226-2
0/		Female thread O-ring boss (ORB)	BSP	BS 5380
			METRIC	ISO 6149-1
			UN (SAE)	ISO11926-1
1/		Male thread heavy duty (metric), light duty (SAE), taper (NPT)	BSP	BS 5380
			METRIC	ISO 6149-2
			UN (SAE) NPT	ISO 11926-3
				ANSI B1.20.3
2/		24° cone male thread light duty (L)	METRIC	ISO 8434-1 L
3/		24° cone male thread heavy duty (S)	METRIC	ISO 8434-1 L
4/		60° cone male thread bulkhead	BSP	ISO 8434-6
			METRIC	BS 5200
				DIN 3863 (int)
				DIN 3853-L (ext)
5/		24° cone male thread light duty (L) bulkhead	METRIC	ISO 8434-1 L

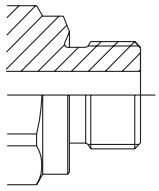
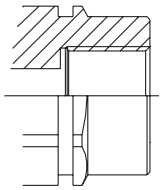
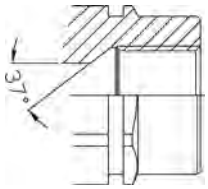
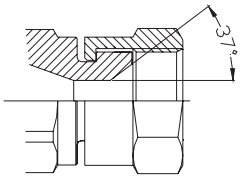
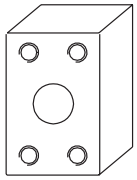
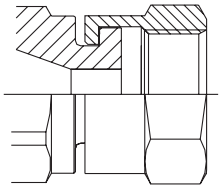
Thread Faster - standard

Code	Drawing	Description	Thread	Standards
6/		24° cone male thread heavy duty (S) bulkhead	METRIC	ISO 8434-1 S
7/		24° cone male thread light duty (L) bulkhead 10 mm shortened	METRIC	ISO 8434-1 L
8/		24° cone male thread heavy duty (S) bulkhead 10 mm shortened	METRIC	ISO 8434-1 S
9/		24° cone male double thread light duty (L) bulkhead	METRIC	ISO 8434-1 L ISO 5676
11/		O-ring face seal male thread (ORFS)	UN (SAE)	ISO 8434-3
12/		O-ring face seal male thread (ORFS) bulkhead	UN (SAE)	ISO 8434-3
13/		37° flared male thread (JIC)	UN (SAE)	ISO 8434-2

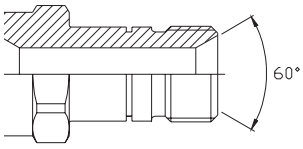
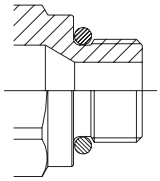
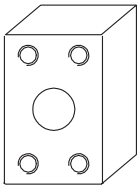
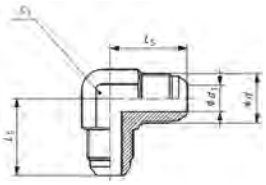
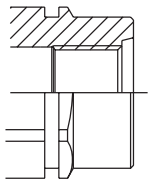
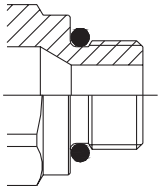
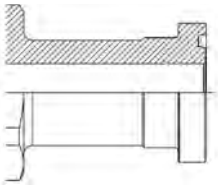
Thread Faster - standard

Code	Drawing	Description	Thread	Standards
14/		37° flared male thread (JIC) bulkhead	UN (SAE)	ISO 8434-2
16/		60° cone male thread	BSP	ISO 8434-6
			METRIC	BS 5200
				DIN 3863 (int)
				DIN 3853-L (ext)
17/		O-ring face seal male double thread (ORFS) bulkhead	UN (SAE)	ISO 8434-3
19/		Hollow screw for ring type nipples	METRIC	DIN 7642
				DIN 7643
20/		Rotating adapter female thread with 60° conical sealing surface	BSP	ISO 8434-6
				BS 5200
21/		Stud end with elastomeric sealing (type E), heavy duty (S)	BSP	ISO 1179-2 ISO 9974-2
			METRIC	
22/		Stud end with sealing by washer	BSP	BS 5200
			METRIC	DIN 3852-1

Thread Faster - standard

Code	Drawing	Description	Thread	Standards
23/		Stud end with metal to metal sealing (type B)	BSP	ISO 1179-4
			METRIC	ISO 9974-3
27/		Not rotating female thread for ORFS stud end	UN (SAE)	ISO 8434-3
28/		Not rotating female thread for 37° flared male	UN (SAE)	ISO 8434-2
29/		Rotating female thread for 37° flared male	UN (SAE)	ISO 8434-2
33/		Hose barb type B	-	-
34/		SAE flange connector for use at 35MPa to 40MPa	UN (SAE)	ISO 6162-2 type 2
35/		Rotating female thread for ORFS stud end	UN (SAE)	ISO 8434-3

Thread Faster - standard

Code	Drawing	Description	Thread	Standards
36/		Male thread ogive 60° panel mouting	BSP	ISO 8434-6
				BS 5200
41/		Male thread light duty (metric), heavy duty (SAE)	METRIC	ISO 6149-3
			UN (SAE)	ISO 11926-2
44/		Metric flange connector for use at 35MPa to 40MPa	METRIC	ISO 6162-2
61/		37° flared male thread (JIC) elbow style (90°)	UN (SAE)	ISO 8434-2
71/		Female thread O-ring boss (ORB)	BSP	JIS B 2351
			METRIC	
74/		Male thread	BSP	JIS B 2351
			METRIC	
76/		Flanged head for metric flange clamp for use at 35MPa to 40MPa	UN (SAE)	ISO62-262) 6162-2

Legend	
1	Recommended
2	Suff. satisfactory
3	Unsatisfactory

Fluid compatibility

Fluid	Seals							Materials		
	NBR	CR	EPDM	AU	FKM Viton	FFKM kalrez	PTFE Teflon	Brass	Steel	AISI 316 Stainless Steel
Water	1	2	1	1	2	1	1	1	3	1
Bromine water	3	3	2	3	1	1	1	3	3	3
Salt water	1	3	1	3	1	1	1	3	2	1
Turpentine	1	3	3	3	1	1	1	3	2	1
Carbon dioxide (dry)	1	2	1	1	2	1	1	1	2	1
Carbon dioxide (wet)	1	1	1	1	1	1	1	1	2	1
Air (100°C)	1	1	1	3	1	1	1	1	2	1
Air (150°C)	2	2	2	3	1	1	1	1	2	1
Air (200°C)	3	3	3	3	1	1	1	1	2	1
Nitrogen	1	1	1	1	1	1	1	1	1	1
ASTM A fuel	1	2	3	1	1	1	1	1	1	1
ASTM B fuel	1	3	3	2	1	1	1	1	1	1
ASTM C fuel	2	3	3	3	1	1	1	1	1	1
Kerosene	1	2	3	2	1	1	1	1	1	1
Freon 12	1	1	3	1	2	3	1	1	1	2
Freon 13	1	1	1	1	1	3	1	1	1	1
Freon 134 A	1	1	2	3	3	3	1	1	1	1
Propane (liquefied gas)	1	2	3	1	1	1	1	1	1	1
Glycol	1	1	1	3	1	1	1	3	1	1
Brakes fluid (petroleum base)	1	2	3	1	3	1	1	1	1	1
Brakes fluid (synthetic base)	3	3	1	2	3	1	1	1	1	1
Carbon monoxide	1	1	1	1	1	1	1	1	1	1
Mineral oils	1	2	3	1	1	1	1	1	1	1
Animal oil (lard)	1	2	2	1	1	1	1	2	1	1
ASTM oil n° 1	1	1	3	1	1	1	1	1	1	1
ASTM oil n° 2	1	2	3	2	1	1	1	1	1	1
ASTM oil n° 3	1	3	3	2	1	1	1	1	1	1
ASTM oil n° 4	2	3	3	3	1	1	1	1	1	1
Peanut oil	1	3	3	2	1	1	1	2	1	1
Cottonseed oil	1	3	3	1	1	1	1	3	1	1
Cod-liver oil	1	2	1	1	1	1	1	1	1	1
Tung oil (china wood oil)	1	2	3	3	1	1	1	1	1	1
Lineseed oil	1	3	3	2	1	1	1	3	1	1
Corn oil	1	3	3	1	1	1	1	2	1	1
Olive oil	1	2	2	1	1	1	1	2	1	1
Castor oil	1	1	2	1	1	1	1	1	1	1
Soybean oil	1	3	3	2	1	1	1	2	1	1
Diesel oil	1	3	3	3	1	1	1	1	1	1
Hydraulic oil (petroleum base)	1	1	3	1	1	1	1	1	1	1
SAE 10 20 30 40 50 lubr. oils	1	2	3	2	1	1	1	1	1	1
Automatic transmission fluid	1	2	3	3	1	1	1	1	1	1
Heating fuel (carbon base)	3	3	3	2	1	1	1	3	1	1
Heating fuel (petroleum base)	1	2	3	2	1	1	1	3	1	1
Silicone oil	1	1	1	1	1	1	1	1	1	1
Transformer oil	1	2	3	1	1	1	1	1	1	1
Oxigen (liquid)	2	1	1	1	1	1	2	1	1	1
Oxigen (100°C .. 200°C))	3	3	3	1	2	1	2	1	1	1
Hydrogen peroxide 10%	2	3	2	2	1	1	1	3	3	1
Hydrogen peroxide 30%	3	3	2	2	1	1	1	3	3	1
Hydrogen peroxide 70%	3	3	2	2	1	1	1	3	3	1
Hydrogen peroxide 90%	3	3	3	2	1	1	1	3	3	1
Quintolubric 822	1	1	3	1	1	1	1	1	1	1
Quintolubric 870-68	1	2	3	1	1	1	1	1	1	1
Steam (< 200°C)	3	3	1	3	3	1	1	2	1	1
Steam (> 200°C)	3	3	3	3	3	1	1	2	1	1

Instructions and warnings for couplings

Recommendations

- Improper use and incorrect maintenance of products with high internal working pressures could cause malfunctioning and damage to persons and machines. Therefore it is necessary to carefully conform to the simple instructions contained in this website and catalogue. For any further information please contact Faster® R&D Dept.
- Before using a new quick-release coupling, please carefully check all data reported in our website, dedicate instructions and catalogues.
- Make sure that the coupling is suitable for pressure, flow characteristics, oil compatibility, proper machine installation and so on requested by the applications. In order to allow your best application understanding please use our Product Definition Form as a guideline.
- Lubricate the seals and perform a connection and disconnection operation in order to check the perfect functioning of the coupling.
- Verify that threads fit and that their sealing is correct.
- If necessary replace damaged components with Faster® original spare parts only.
- Before any connection and disconnection carefully clean both male and female parts to prevent dirt inclusions into the circuit with consequent seals damage and hydraulic fluid contamination. When couplings are disconnected, please protect them with original Faster® dust plugs.
- During the first applications of the coupling, be sure that none is in the nearby and test the coupling under the maximum working pressure when connected and disconnected.
- The most critical moment using flat-face couplings takes place during the coupling phase when the valve in the male part moves and causes an internal volume reduction.
- This fact causes a pressure increase due to the oil quantity existing in the plant. Furthermore, during that operation, the sealing action of the seal in male part has to shift from the male valve to the female.
- In order to resist to internal stresses, Faster® has designed the male couplings of 3FFH... series, equipped with patented triple valve, using this technology it is possible to connect with a residual pressure of 35 MPa (5076 PSI) in male part using standard female couplings FFH series.

Warnings

- When a disconnection is performed, there could be a residual pressure that depending on temperature and position, could reach high values especially using couplers equipped with the breakaway function. This prevents opening the valve in the male part and as a consequence, the connection is not possible.
- Avoid forcing the coupling male valve to decrease residual pressure.
- Use female part suitable for connection under pressure.
- Do not use any sharpened or improper tools which could damage the seals when opening the valves.
- Avoid to install couplers using it as a support for hoses or other devices, the quick release coupler is not a support or a hook, strong side loads may cause damages and malfunctioning to the product.

Responsibilities

- The recommendations stated here do not consider all risk factors in every possible application of Faster® couplings and multiconnections.
- The final choice of the product is under customer's responsibility who has to make the selection according to Faster® suggestions.
- The customer has to make sure that all requirements of chosen parts are respected, efficiency is maintained and the end user is informed about use and maintenance operations.
- Faster® and its Distributors are not responsible for damages to persons and machines caused by an improper use and an incorrect maintenance of products.
- Continuous improvement of technical features of products is Faster's policy. For that reason all data in this website and catalogues are not binding. Faster® is entitled to modify the specifications without prior notice.

Guarantee

- All Faster® quick-release couplings are designed and produced in conformity with the regulations of Quality Managing System according to UNI EN ISO 9001 Standards.
- They bear the Faster® logo to guarantee their origin and reliability.
- Faster® quick-release couplings are distributed worldwide through a network of highly qualified distributors.
- If a Faster® quick-release coupling is connected to a correspondent competitor's type please check the functionality, the sealing and the resistance to working pressure before using the coupling.
- Faster can not assure the performance, quality and connecting tolerances of competitor's types.
- Malfunctioning or leakages due to the above mentioned cases could cause serious damages to persons and machines.

Instructions and warnings for Multifaster

Recommendations

- Before using a new MultiFaster, please carefully consider all data and indications reported in our website and catalogue. Make sure that your MultiFaster is suitable to the flow and pressure used during the application.
- Working pressure must be verified on each single coupling and then on the total of the lines.
- Carefully check that all lines under the maximum working pressure simultaneously do not exceed the maximum working pressure value indicated in our website or catalogue.
- Make lines simultaneously under pressure alternate with lines that are not under pressure to ensure a longer lifetime to the seals.
- Please carefully read the instructions packed with the MultiFaster system (instruction no. 55). Lubricate all points subjected to frictions and wear as indicated in the instruction no. 55, perform some connection and disconnection operations in order to check the perfect functioning of the system. Replace MultiFaster components only with original marked Faster® spare parts as indicated in the schedules of this catalogue and in the instructions of the MultiFaster.
- Clean the fixed and the mobile parts of the system before each connection to preserve seals.
- When the MultiFaster is not connected, please protect the fixed part with the special automatic dust cover and place the mobile part on its support (on request) to prevent dirt contamination and dents.

Warnings

- Improper use and incorrect maintenance of products with high internal working pressures could cause misfunctioning and damage to persons and machines. Therefore it is necessary to carefully conform to the instructions contained in this website, catalogue or in the single products. For any further information please contact Faster® R&D Dept.
- Connection and disconnection of MultiFaster is carried out by a lever. This system minimizes the force to connect even with plant at maximum working pressure. Therefore it is necessary to verify all operating conditions in view of the system on which the MultiFaster will be fitted.
- For 2P series MultiFaster (equipped with 2FFNP male couplings), to calculate the maximum pressure during the coupling phase, consider that there is a volume reduction inside the male part by:
  2cc-size 06
  3cc-size 08
  7cc-size 12
  this volume reduction creates a pressure increase in addition to the oil quantity existing in the system, male circuit.
- For 3P series MultiFaster (equipped with 3FFNP male couplings), the internal pressure is constant.
- Damages in the seals and internal components of the coupling may occur if connecting phase is carried out at higher pressures than stated values thus causing loss of oil and malfunctioning.
- In case of damages, ask for original Faster® spare parts kits. Check that all moveable components are cleaned and greased. Be sure that safety nut is released by each connecting operation to avoid any accidental disconnection caused by vibrations or shocks.
- During the disconnection with the MultiFaster under pressure ensure to hold the lever with a hand to avoid that the fast return could cause damage to persons and machines.

Responsibilities

- The recommendations stated here do not consider all risk factors in every possible application of Faster® couplings and multiconnections.
- The final choice of the product is under customer's responsibility who has to make the selection according to Faster® suggestions.
- The customer has to make sure that all requirements of chosen parts are respected, efficiency is maintained and the end user is informed about use and maintenance operations.
- Faster® and its Distributors are not responsible for damages to persons and machines caused by an improper use and an incorrect maintenance of products.
- Continuous improvement of technical features of products is Faster's policy. For that reason all data in this website and catalogues are not binding. Faster® is entitled to modify the specifications without prior notice.

Guarantee

- All Faster® quick-release couplings are designed and produced in conformity with the regulations of Quality Managing System according to UNI EN ISO 9001 Standards.
- They bear the Faster® logo to guarantee their origin and reliability.
- Faster® quick-release couplings are distributed worldwide through a network of highly qualified distributors.
- If a Faster® quick-release coupling is connected to a correspondent competitor's type please check the functionality, the sealing and the resistance to working pressure before using the coupling.
- Faster can not assure the performance, quality and connecting tolerances of competitor's types.
- Malfunctioning or leakages due to the above mentioned cases could cause serious damages to persons and machines.

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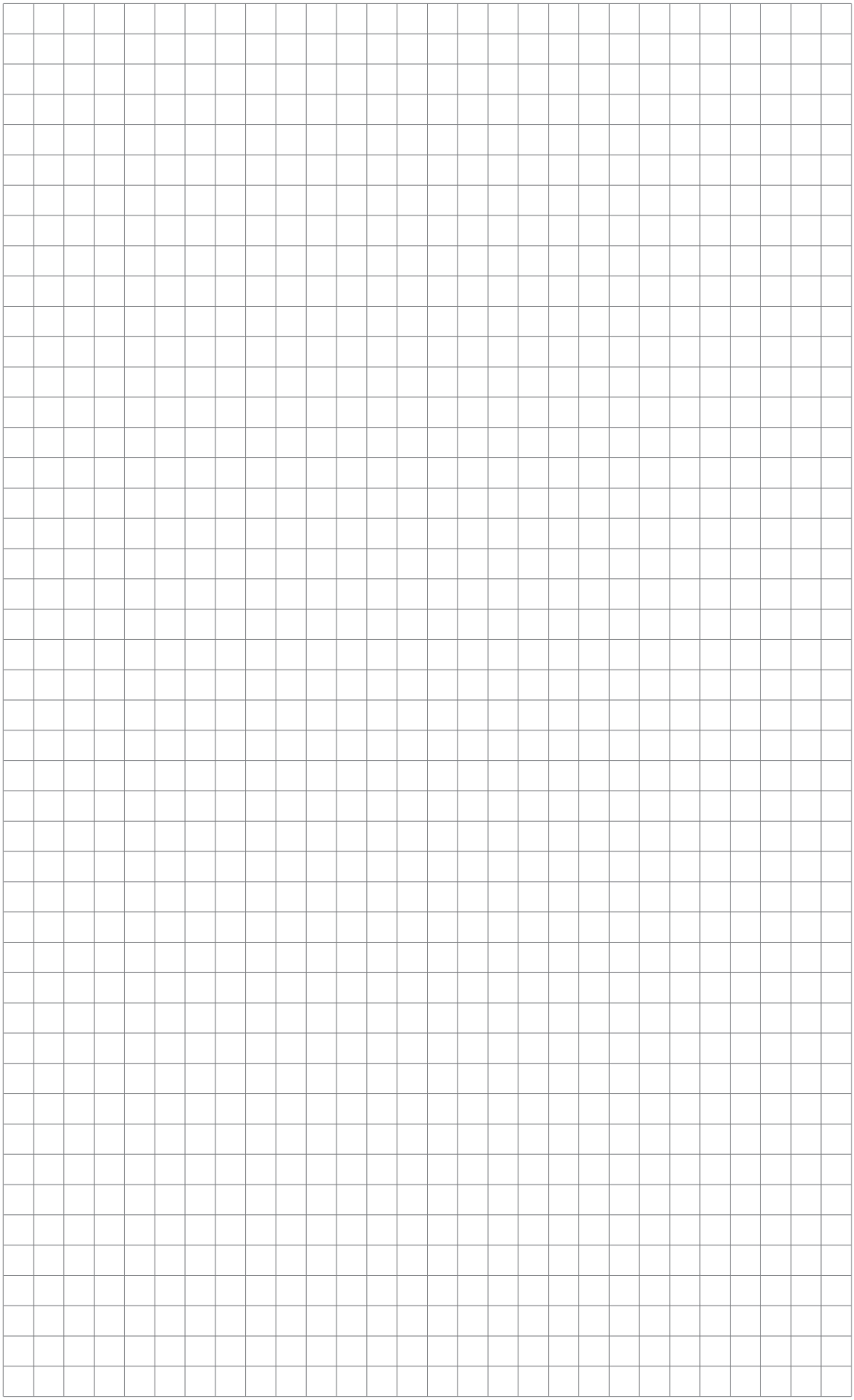

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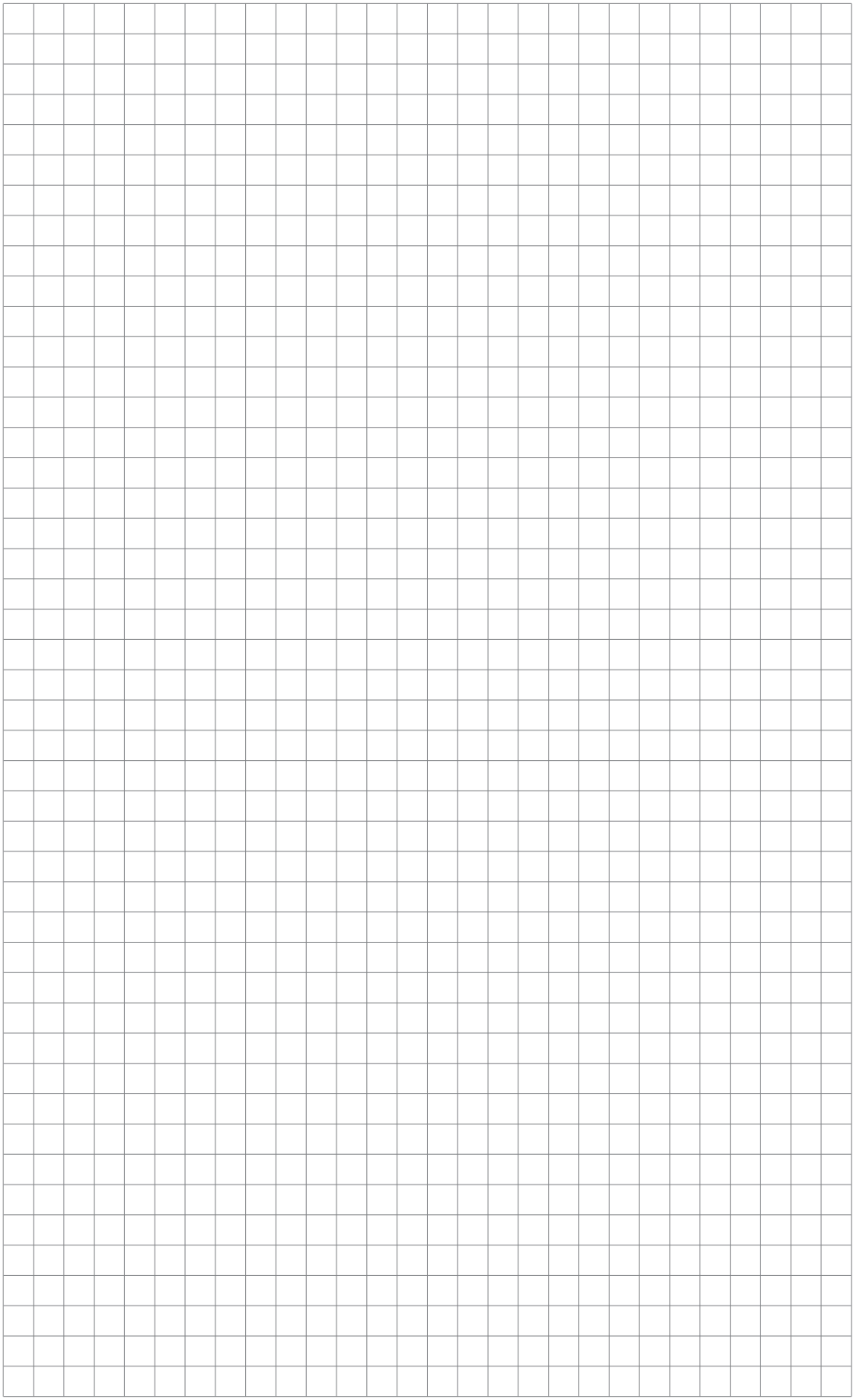

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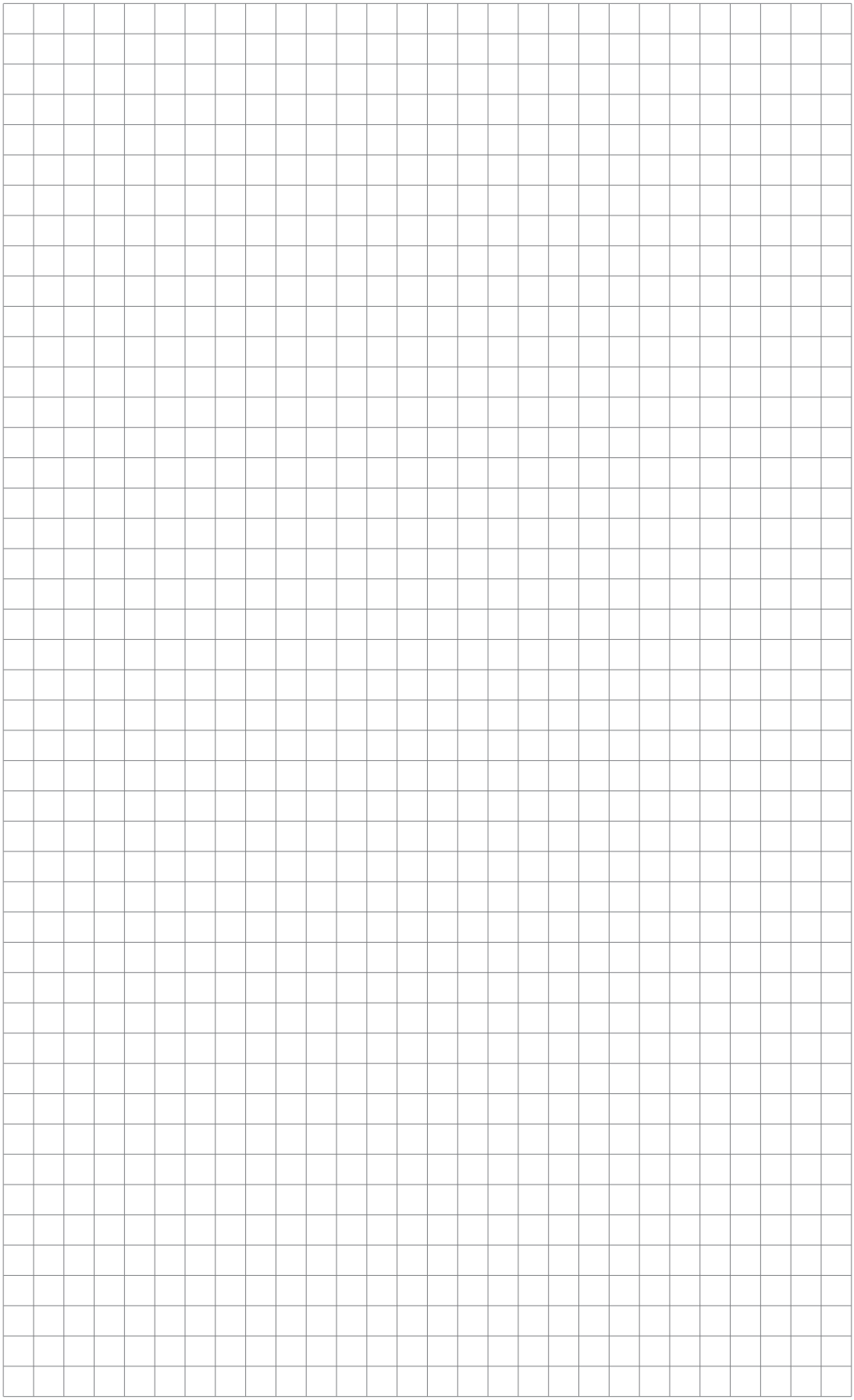

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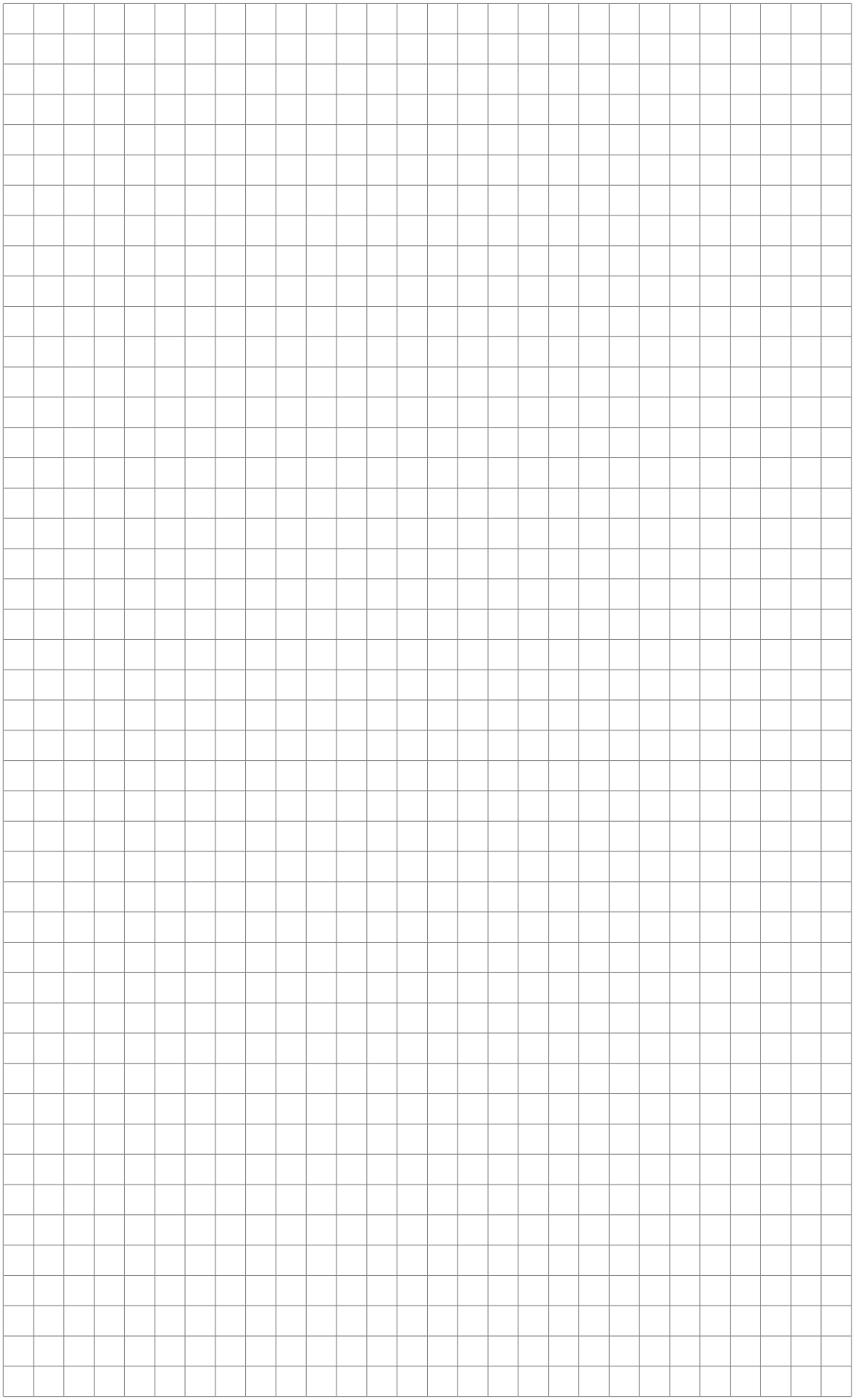

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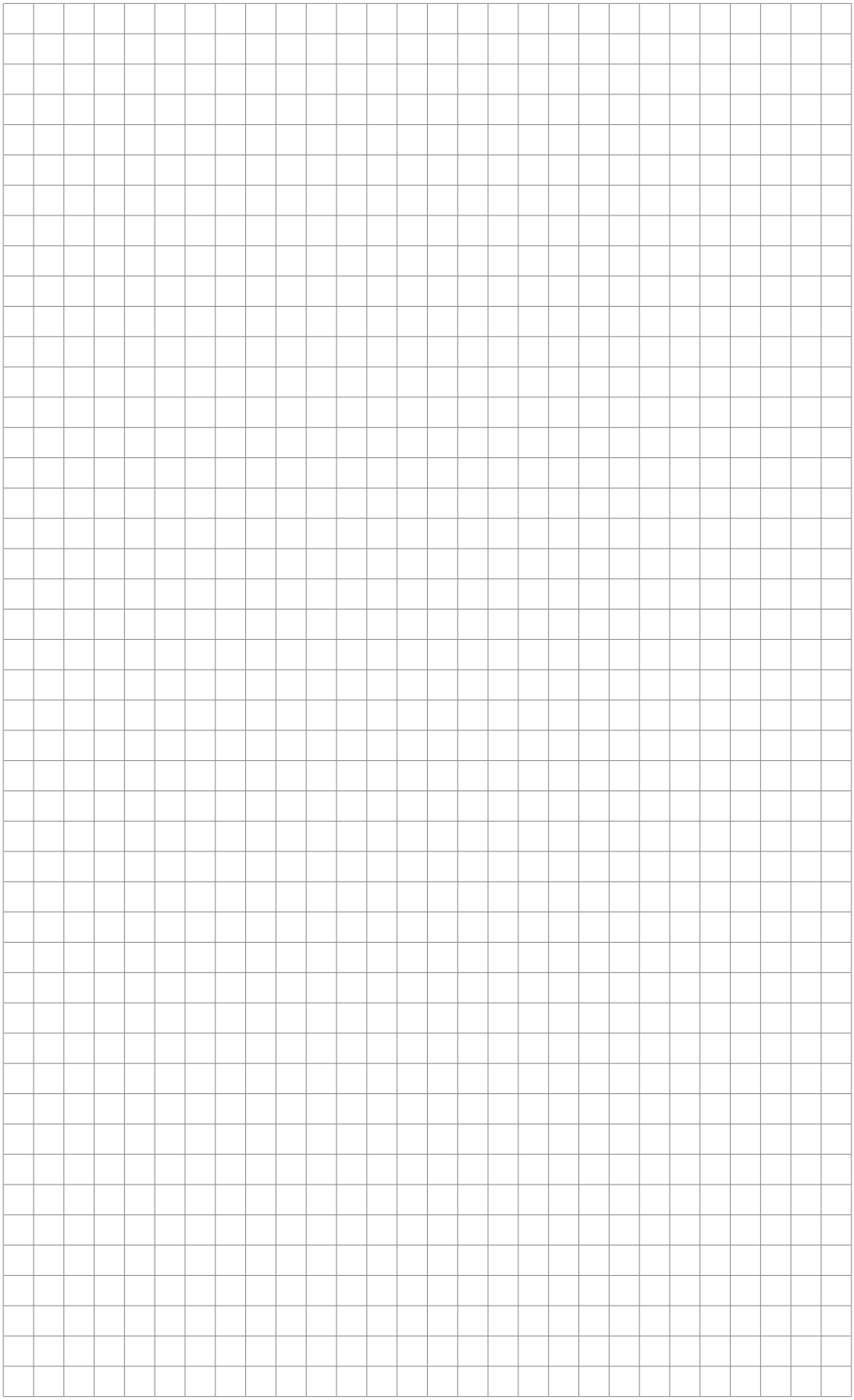

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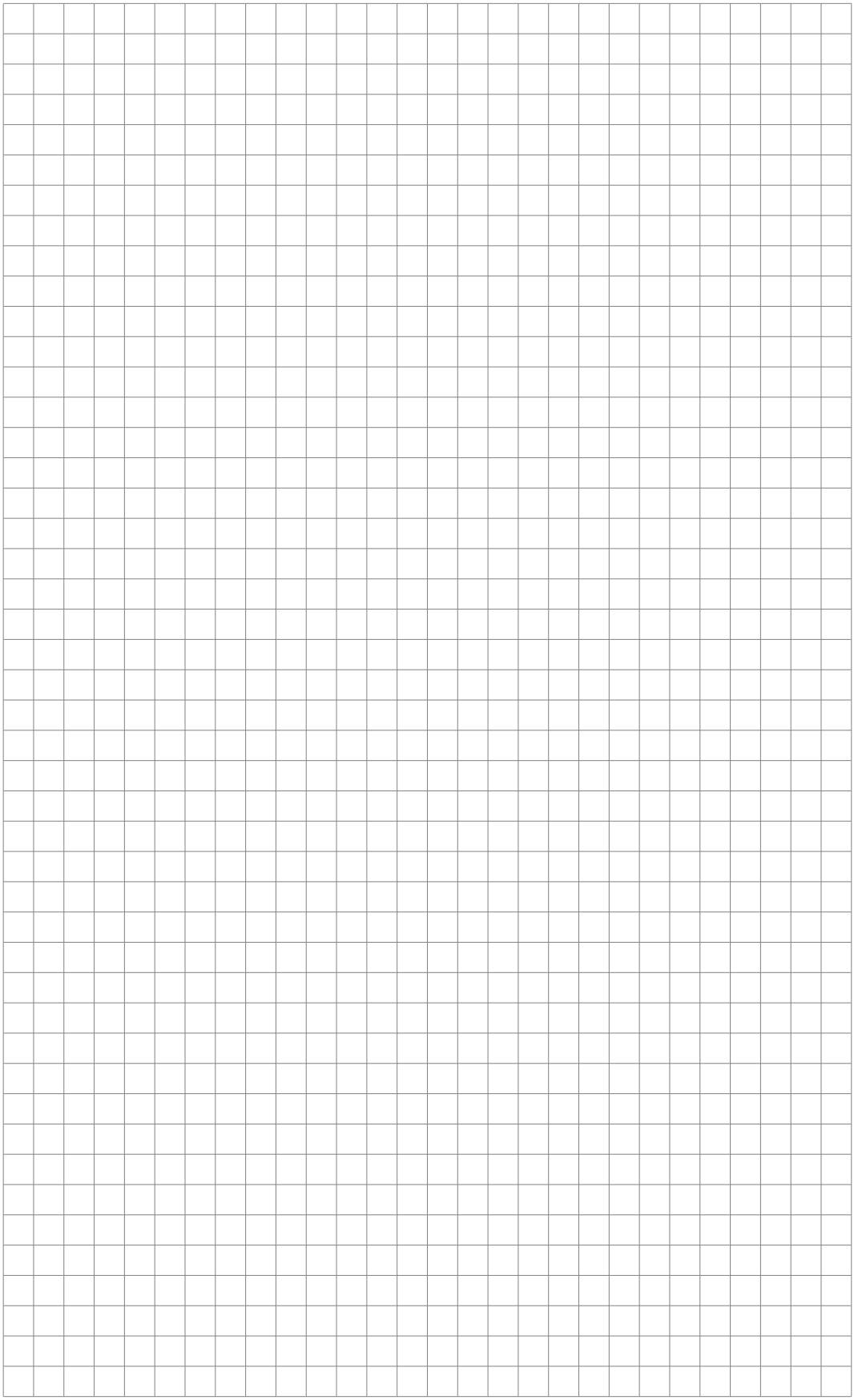

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