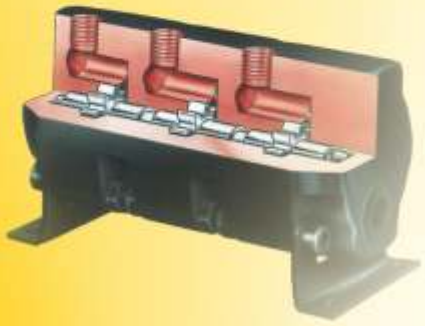
POWER-HYDRAULIK



FLOW DIVIDER

Overview

Description

- Geared flow dividers by POWER-HYDRAULIK are characterized by high manufacturing accuracy. Depending on the version, volumetric flow rates of 2 to 600 liters per minute can exactly be divided into 2 to max. 12 equal or proportional flows. Due to its special design, there is no need for additional pressure relief valves for limit position equalization in many applications. The design of hydraulic systems can be clearer and more compact when using flow dividers.

Quality at its best
- High-strength cast housing
- Precision needle bearings
- O-ring seals between the chambers
- Accurately dowelled chambers
- Hardened shafts with hardened round keys and keyways (prevents stress concentration and wear)

Thanks to precisely machined undercuts, which guarantee constant filling and displacement, the flow dividers work smoothly and have a long service life.

Dimensioning
Best efficiency and highest precision are achieved if the flow divider is operated in the ideal speed range. Therefore both inlets should be used also in case of devices with several chambers. The outlet volumetric flow rate can be adapted to the requirements by combining any chambers of a series. The maximum speed of 3,500 rpm and the minimum speed of 700 - 800 rpm, the maximum inlet pressure and the maximum pressure difference should be observed. The ideal speed range is at 1,500 – 2,500 rpm. Below a speed of 700 - 800 rpm, the division results will be inaccurate. The required inlet pressure for flow dividers is calculated in the following way:
“The product of inlet pressure and volumetric flow rate is equivalent to the sum of the products of sub-flows and pressures at the respective outlets, plus the pressure loss of 10 - 15 bar in the flow divider”.

$$p \times Q = p_1 \times Q_1 + p_2 \times Q_2 + p_n \times Q_n + (10\text{-}15\text{bar})$$

p	= inlet pressure
Q	= inlet flow rate
p1 - pn	= outlet pressures
Q1 - Qn	= outlet flow rates

Hydraulic oils of up to 500 cSt and filters with a pore size of up to 25 µm are used.

Product variants and accessories

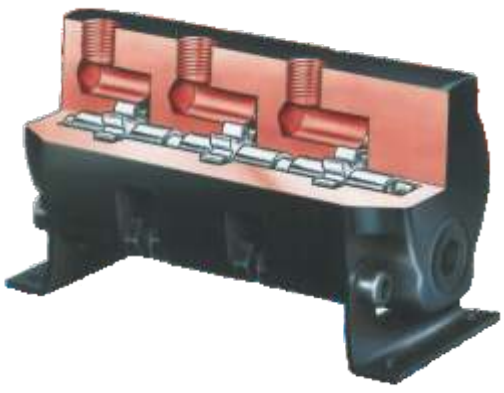
- Flow dividers are also available as S-Versions for the increased pressure range (continuous pressure 210 bar, intermittent pressure 320 bar, max. pressure difference between chambers 110 bar). Details can be found under the respective flow divider series.

- The flow dividers are furthermore available as T-Versions. They are characterized by increased division accuracy and automatically comprise all features of the S-Version with mounting brackets. Compared to other versions (+/- 2.5% accuracy at
- 1500 - 2500 rpm and max. pressure difference between sections of 20 -25 bar), the T-Version achieves up to +/- 1.3%.

- By default the flow dividers are equipped with NBR (Buna-N) seals. On request, the flow dividers are also available with Viton O-ring seals.

- Complete pressure relief units, if required also with anti-cavitation valves, can be retrofitted on the secondary side. Pressure relief units must be used wherever the maximum permissible pressure is exceeded by pressure intensification.

Applications
Flow dividers serve to split an inlet flow into two or more equal or proportional sub-flows. Areas of application are, for instance, the synchronism or two or more cylinders. The flow divider is used as divider in one direction and combiner in another direction. Lubricant/coolant distribution and motor-pump applications are further areas of application. Flow dividers can also be used as pressure intensifiers by relieving one or several outlets to the tank.



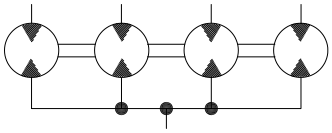
Synchronization error
The division accuracy of geared flow dividers depends on the following parameters:

- oil viscosity and temperature
- difference in load pressures
- system pressure level
- oil flow to be divided

The more information is available, the better POWER-HYDRAULIK can dimension the devices and provide reference about suitable flow dividers.

Pressure loss(Δp)
The pressure loss in the flow divider is usually approx. 10-15 bar. This must be observed in any applications and, if required, the system pressure must be adapted.

Symbol of a flow divider (here a 4-fold flow divider)
in all control diagrams of POWER-HYDRAULIK, a symbol like the example on the left is used for the flow divider. An overflow oil connection is not required.

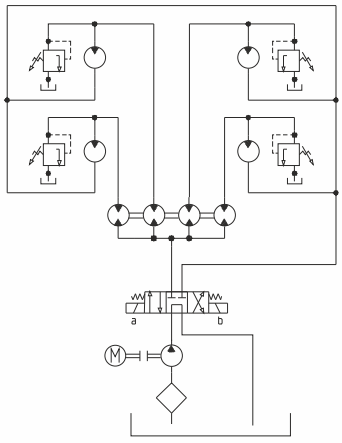


Division ratio
A uniform division ratio is required in most of the cases. On request, diverse division ratios can be achieved as well. This is possible without problems if different volumes are required within one size. Do not hesitate to contact us in case of questions.

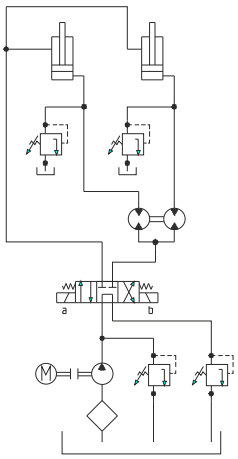
Application of flow dividers under special conditions
If using a flow divider is considered, but there are uncertainties regarding which flow divider is promising and suitable for the application, POWER-HYDRAULIK will gladly assist you. Preferably with the planned control diagram and information on:

- inlet volumetric flow rate
- equal or proportional division
- operating or system pressure
- type or medium
- type of cylinders

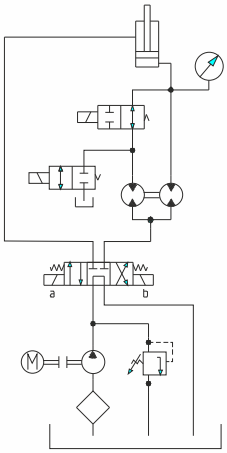
Typical applications



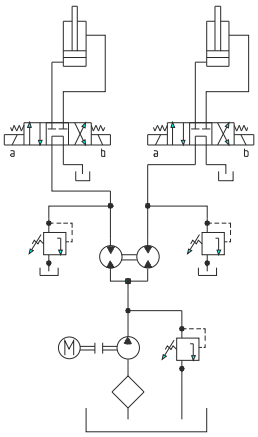
Supply of several stations
One pump supplies several stations in order to ensure sufficient lubrication:
e.g. machines with hydraulic motor drive, tunneling machines, lubrication in coal/bowl mills, coolant distribution in multi-spindle deep-hole drilling machines.



Synchronism
Synchronism of two or more cylinders, e.g. lifting platforms, pallet changers, ejectors in form tools, tilting stages



Pressure intensifier
Flow dividers can also be used as pressure intensifiers by relieving one or several outlets to the tank, e.g. in waste presses and other high-/low-pressure designs



Separate control of flow rates
Two or more flow rates are controlled separately at different pressure:
presses, machine tools, etc.

Type desccription

Series 200

- From 2 to 8 sections
- 7 chamber sizes
- max. continuous pressure 110 oder 210 bar
- equal and proportional flow rate
- max. intermittent pressure 320 bar
- inlet volumetric flow rate of 2-section devices: 2-40 l/min.
- 8-section devices: max. 160 l/min

Series 300

- from 2 to 8 sections
- 5 chamber sizes
- equal and proportional flow rate
- max. continuous pressure105 oder 210 bar
- max. intermittent pressure 320 bar
- inlet volumetric flow rate of 2-section devices: 13-170 l/min
- 8-section devices: max. 500 l/min

Series 400

- 2 sections
- 2 chamber sizes
- equal flow rate
- max. continuous pressure 105 oder 210 bar
- max. intermittent pressure 320 bar
- inlet volumetric flow rate 77-380 l/min

Type description

Series H/HR

- from 2 to 6 sections
- 5 chamber sizes
- equal and proportional flow rate
- max. continuous pressure 240 bar
- max. intermittent pressure 420 bar
- inlet volumetric flow rate of 2-section devices: 13-170 l/min.
- 6-section devices: max. 400 l/min

Pressure relief units - for all series

- Used in case of pressure intensification if the maximum permissible pressure is exceeded
- Installation into the pipe by default
- Series 200 PR – 2-section and 4-section also flange-mounted
- Depending on the version, the aluminum control block is equipped with pressure relief valves, check valves and/or anti-cavitation valves
- On request, the pressure relief valves are set

---

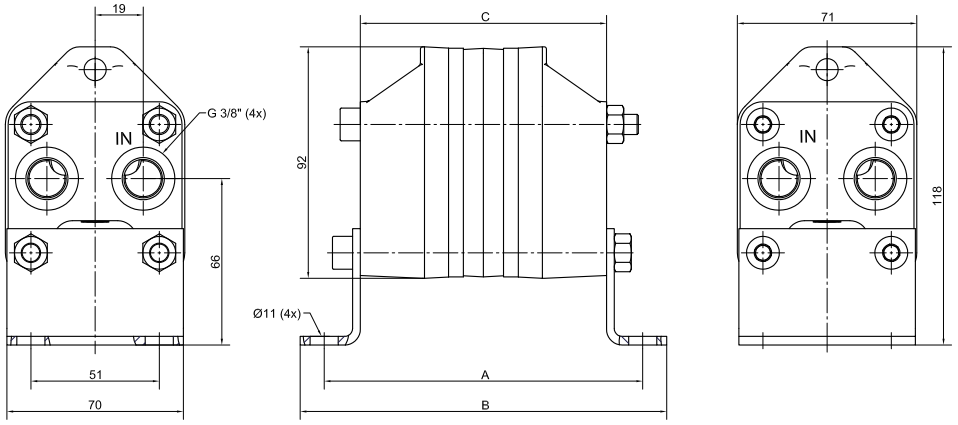
flow divider with inductive sensor

- Possibility to install an inductive sensor to measure the speed at the flow divider
- Further possibilities and solutions on request

Flow dividers with two equal sub-flows

Series 200 - PR

Different variants available:
Without variant: standard version without mounting brackets
A: standard version with mounting brackets
S: designed for higher pressure without mounting brackets
B: S-Version with mounting brackets
T: B-Version with increased division accuracy



max. speed: 3500 rpm

model	number of sections	maximum inlet [dm³/min]	displacement per section [cm³/rev.]	max. pressure continuous [bar]		max. pressure intermittent [bar]		max. pressure difference between sections [bar]		Dim. A ±2 [mm]	Dim. B ±2 [mm]	Dim. C [mm]
				version A	version S,B,T	version A	version S,B,T	version A	version S,B,T			
PR 202-*	2	13	1,9	140	210	175	320	175	175	126	145	97,4
PR 204-*	2	23	3,3	110	210	140	320	110	110	134	154	106,1
PR 207-*	2	40	5.6	110	210	140	320	110	110	148	168	120,1

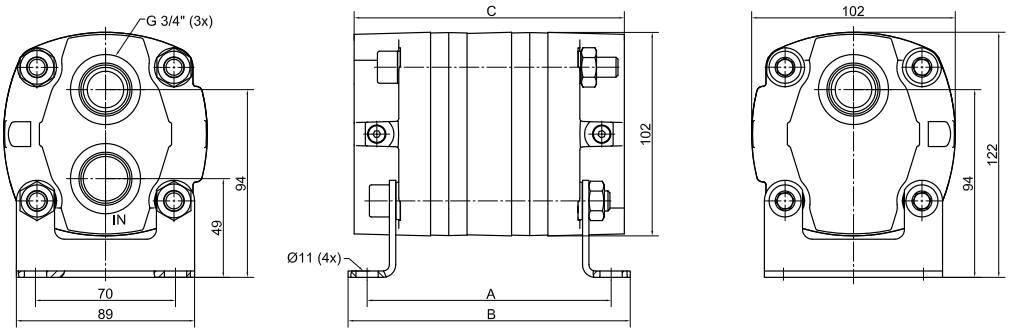
* Please add required variant!

Ordering code on page 14!

300er Serie - PR

Different variants available:
Without variant: standard version
S: designed for higher pressure
T: S-Version with increased division accuracy

All versions of Series 300 by default with mounting brackets



max. speed: 3500 rpm

model	number of sections	maximum inlet [dm³/min]	displacement per section [cm³/rev.]	max. pressure continuous [bar]		max. pressure intermittent [bar]		max. pressure difference between sections [bar]		Dim. A ±2 [mm]	Dim. B ±2 [mm]	Dim. C [mm]
				without version	version S,T	without version	version S,T	without version	version S,T			
PR 307-*	2	80	11,7	105	210	140	320	70	110	122	141	134,8
PR 310-*	2	115	16,4	105	210	140	320	70	110	136	155	149,3
PR 315-*	2	170	24,4	105	210	140	320	70	110	161	180	174,2

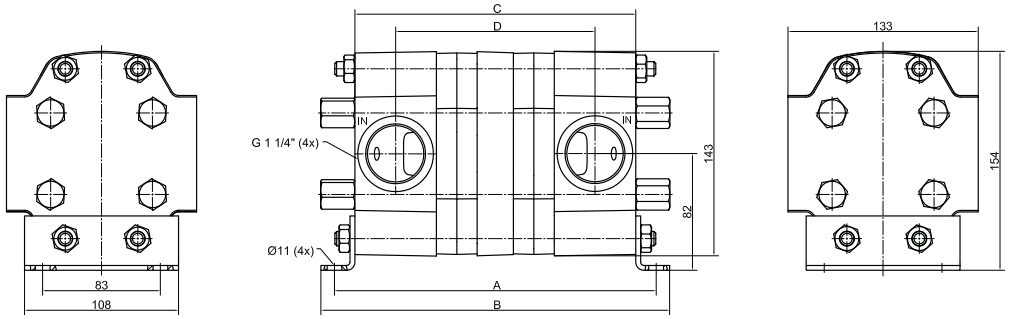
* Please add required variant!

Ordering code on page 14!

Series 400 - PR

Different variants available:
Without variant: standard version
S: designed for higher pressure
T: S-Version with increased division accuracy

All versions of Series 400 by default with mounting brackets



max. speed: 3000 rpm

model	number of sections	maximum inlet [dm³/min]	displacement per section [cm³/rev.]	max. pressure continuous [bar]		max. pressure intermittent [bar]		max. pressure difference between sections [bar]		Dim. A ±2 [mm]	Dim. B ±2 [mm]	Dim. C [mm]	Dim. D [mm]
				without version	version S,T	without version	version S,T	without version	version S,T				
PR 411-*	2	230	38,6	105	210	140	320	70	110	226	245	197	139,8
PR 418-*	2	380	64,0	105	210	140	320	70	110	264	283	235,1	177,9

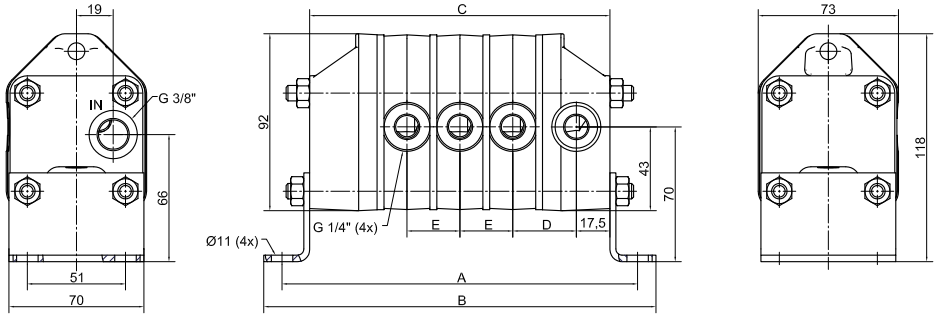
* Please add required variant!

Ordering code on page 14!

Flow dividers with four equal sub-flows

Series 200 -PR

Different variants available:
Without variant: standard version without mounting brackets
A: standard version with mounting brackets
S: designed for higher pressure without mounting brackets
B: S-Version with mounting brackets
T: B-Version with increased division accuracy



max. speed: 3500 rpm

model	number of sections	maximum inlet [dm³/min]	displacement per section [cm³/rev.]	max. pressure continuous [bar]		max. pressure intermittent [bar]		max. pressure difference between sections [bar]		Dim. A ±2 [mm]	Dim. B ±2 [mm]	Dim. C [mm]	Dim. D [mm]	Dim. E [mm]
				version A	version S,B,T	version A	version S,B,T	version A	version S,B,T					
PR 201-59-*	4	15	1,1	140	210	175	320	175	175	184	204	155,5	32.9	27.4
PR 202-59-*	4	27	1,9	140	210	175	320	175	175	193	213	164,7	35.2	29.7
PR 204-59-*	4	46	3,3	110	210	140	320	110	110	211	231	182	39.5	34.0

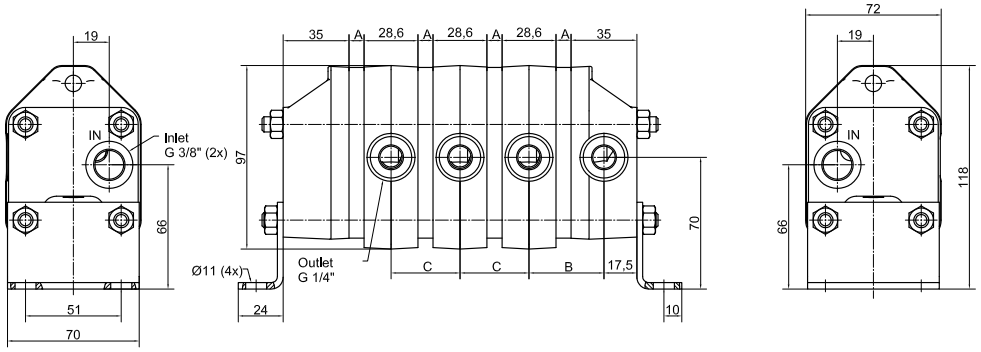
* Please add required variant!

Ordering code on page 14!

Series 200- PM

Different variants available:
B: designed for higher pressure
T: B-Version with increased division accuracy
Series 200 - PM with stub shaft, therefore also suitable for proportional division

All versions of Series 200 - PM by default with mounting brackets



max. speed: 3500 rpm

model	number of sections	maximum inlet [dm³/min.]	displacement per section [cm³/rev.]	max. pressure continuous [bar]	max. pressure intermittent [bar]	max pressure difference between sections [bar]	Dim. section A [mm]	Dim. B [mm]	Dim. C [mm]
PM 203-59-*	4	36	2.5	210	320	110	8,0	39.8	36.6
PM 205-59-*	4	60	4,3	210	320	110	13,4	45,1	41,9
PM 207-59-*	4	80	5.6	210	320	110	17,2	49,0	45,8
PM 210-59-*	4	114	8,2	210	320	110	25,4	57.2	54.0

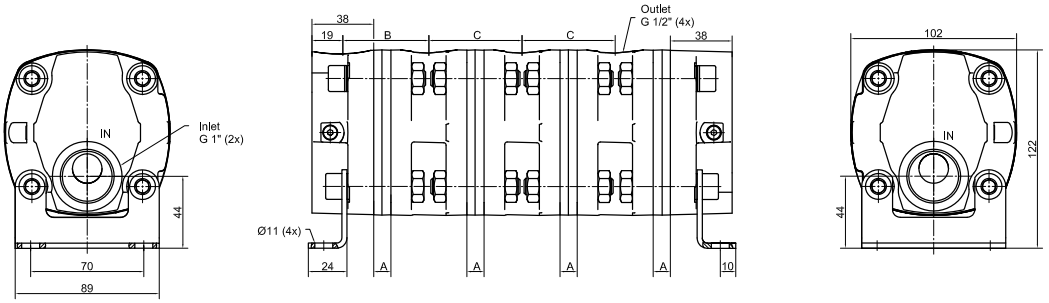
* Please add required variant!

Ordering code on page 14!

Series 300 - PR

Different variants available:
S: designed for higher pressure
T: S-Version with increased division accuracy

All versions of Series 300 by default with mounting brackets



max. speed: 3500 rpm

model	number of sections	maximum inlet [dm³/min.]	displacement per section [cm³/rev.]	max. pressure continuous [bar]	max. pressure intermittent [bar]	max. pressure difference between sections [bar]	Dim. section A [mm]	Dim. B [mm]	Dim. C [mm]
PR 304-59-*	4	96	6,8	210	320	110	10,6	53,1	57,6
PR 307-59-*	4	160	11,7	210	320	110	18,2	60,7	65,2
PR 310-59-*	4	228	16,4	210	320	110	25,4	67,9	72,4
PR 312-59-*	4	280	20,5	210	320	110	31,8	74,3	78,8
PR 315-59-*	4	332	24,4	210	320	110	37,8	80,3	84,8

* Please add required variant!

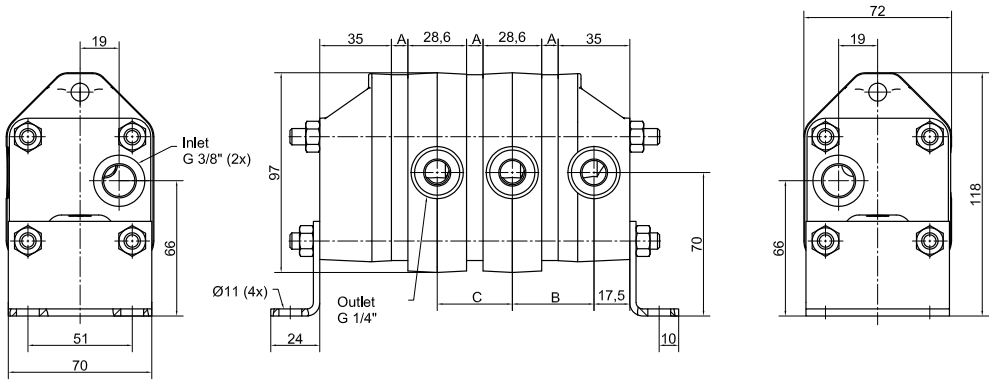
Ordering code on page 14!

Flow dividers for several equal or proportional sub-flows

Series 200-PM

Different variants available:
B: designed for higher pressure
T: B-Version with increased division accuracy

All versions of Series 200 - PM by default with mounting brackets



max. speed: 3500 rpm

model	section label	maximum inlet per section [dm³/min.]	displacement per section [cm³/rev.]	max pressure continuous [bar]	max. pressure intermittent [bar]	max pressure. difference between sections [bar]	Dim. section A [mm]	Dim. B [mm]	Dim C off three-way [mm]
PM 201-*	201	4	1.1	210	320	175	3,6	35,4	32,2
PM 202-*	202	6.5	1.9	210	320	175	5,8	37,6	34.4
PM 203-*	203	9	2.5	210	320	110	8,0	39,8	36.6
PM 204-*	204	11.5	3.3	210	320	110	10,2	42,0	38.8
PM 205-*	205	15	4,3	210	320	110	13,4	45,1	41,9
PM 207-*	207	20	5.6	210	320	110	17,2	49,0	45,8
PM 210-*	210	28.5	8,2	210	320	110	25,4	57,2	54.0

* Please add required variant, observe chamber identification!

Ordering code on page 14!

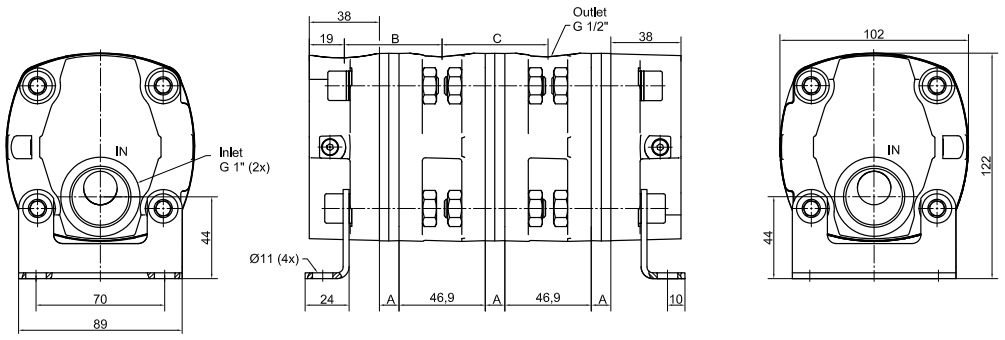
number of sections	3	4	5	6
identification of section	60	59	58	57

Chambers can be combined as you wish!

Series 300 - PR

Different variants available:
S: designed for higher pressure
T: S-Version with increased division accuracy

All versions of Series 300 - PR by default with mounting brackets



max. speed: 3500 rpm

model	section label	maximum inlet per section [dm³/min.]	displacement per section [cm³/rev.]	max. pressure continuous [bar]	max. pressure intermittent [bar]	max. pressure difference between sections [bar]	Dim. section A [mm]	Dim. B [mm]	Dim C. off three-way [mm]
PR 304-*	304	24	6,8	210	320	110	10,6	53,1	57,6
PR 307-*	307	40	11,7	210	320	110	18,2	60,7	65,2
PR 310-*	310	57	16,4	210	320	110	25,4	67,9	72,4
PR 312-*	312	70	20,5	210	320	110	31,8	74,3	78,8
PR 315-*	315	83	24,4	210	320	110	37,8	80,3	84,8

* Please add required variant, observe chamber identification!

Ordering code on page 14!

number of sections	3	4	5	6	7#	8#
identification of section	60	59	58	57	56	55

from 7-fold division max. continuous pressure = 150 bar

Chambers can be combined as you wish!

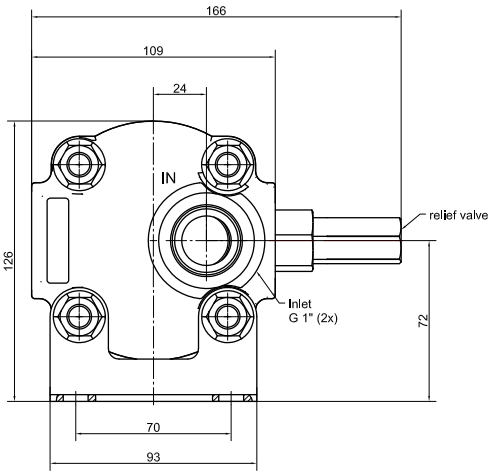
High-pressure flow divider

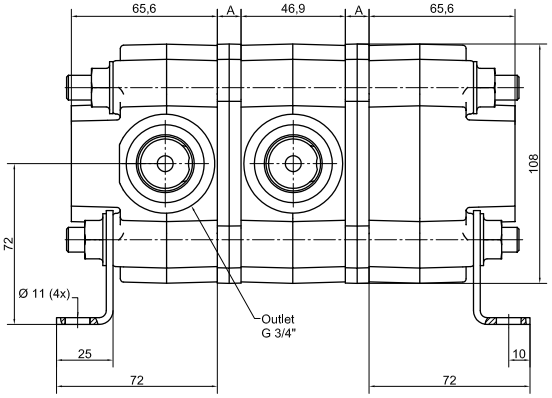
Series 300 - H

without integrated pressure relief valves

Series 300 - HR

with integrated pressure relief valves

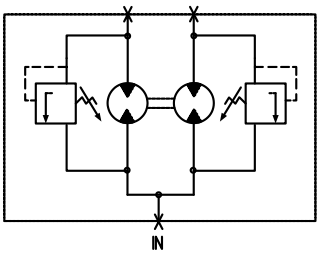




Different variants available:
S: standard version
T: S-Version with increased division accuracy

All versions of Series 300 H and HR by default with mounting brackets

Hydraulics diagram:
Two chambers
Optionally with integrated pressure relief valves
Adjustment ragen 35-100 bar (differential pressure)



max. speed: 3500 rpm

model H or HR	section label	maximum inlet per section [dm³/min.]	displacement per section [cm³/rev.]	max. pressure continuous [bar]	max. pressure intermittent [bar]	max. pressure difference between sections [bar]	Dim. section A [mm]
304-*	304	24	6,8	240	420	210	10,6
307-*	307	40	11,7	240	420	210	18,2
310-*	310	57	16,4	240	420	210	25,4
312-*	312	70	20,5	240	420	210	31,8
315-*	315	83	24,4	240	420	210	37,8

* Please add required variant, observe chamber identification!

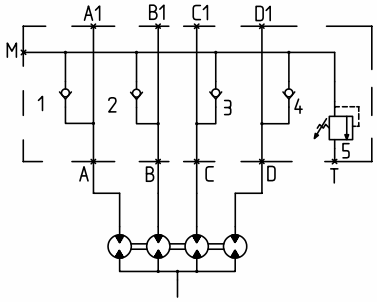
Ordering code on page 14!

number of sections	3	4	5	6
identification of section	60	59	58	57

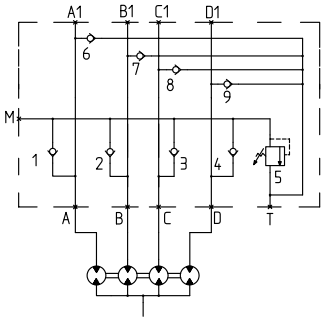
Description

Due to their design, flow dividers by POWER-HYDRAULIK do not require additional pressure relief valves for final position equalization in many applications. If a cylinder has reached the final position, no more oil can flow on this side. The flow divider, in which all gears are located on the same shaft, keeps rotating slowly in order to bring the other cylinders into their final position. The pressure in the chamber of the cylinder which is already in the final position rises in this way.
In order to ensure that the maximum permissible pressure is neither exceeded in final position equalization nor in pressure intensification, pressure relief units by POWER-HYDRAULIK are used in many applications.
Their task is to monitor and secure the application on the secondary side (on the load side after the flow divider). Consisting of an aluminum control block, check valves and pressure relief valves, the pressure relief units by POWER-HYDRAULIK work according to the principle of absolute safeguarding, i.e. the pressure relief valves open at a certain value and make the excess oil flow into the tank. The setpoint value is usually set on site during commissioning. On request we can also adjust the valves at our test rig. Normally the pressure relief units must be integrated into the pipe. For 2-section and 4-section flow dividers of Series 200 – PR, the pressure relief units can also be flange-mounted directly on the flow divider.
If required, all pressure relief units are also available with anti-cavitation valves. These check valves prevent the formation of a vacuum in the respective pipe during the return flow by sucking oil from the tank.
Our team will gladly assist you in case of questions.

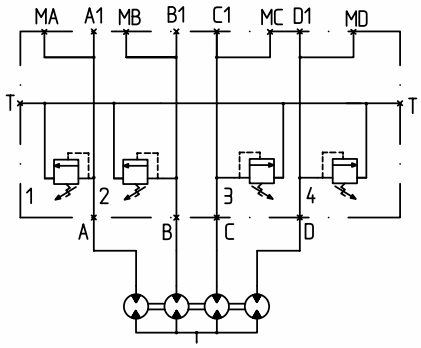
Pressure relief units (diagrams for pipe installation)



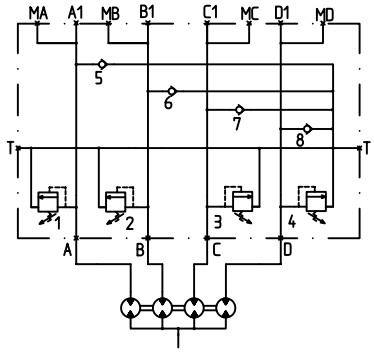
Pressure relief unit for Series 200
consists of an aluminum control block; each sub-flow is secured by a check valve and a pressure relief valve
(in 2-section devices, each sub-flow is secured by a pressure relief valve)
The example above is a pressure relief unit for 4-section Series 200



Pressure relief unit with anti-cavitation valves for Series 200
consists of an aluminum control block; each sub-flow is secured by a check valve and a pressure relief valve, additionally with another check valve for cavitation protection
in 2-section devices, each sub-flow is secured by a pressure relief valve
The example above is a pressure relief unit with anti-cavitation valve for 4-section Series 200.



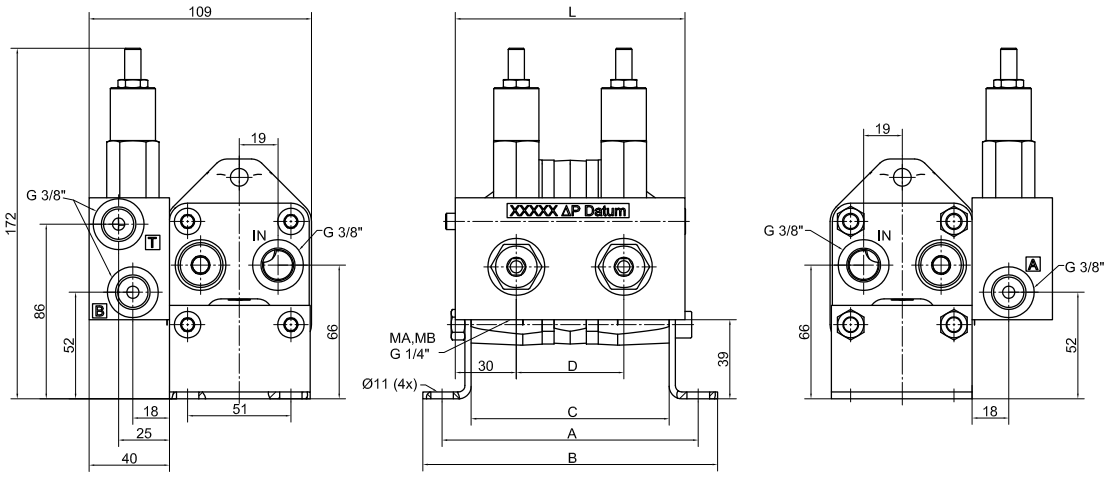
Pressure-relief unit for Series 300 and 400
consists of an aluminum control block; each sub-flow is secured by a pressure relief valve
The example above is a pressure relief unit for 4-section Series 300



Pressure-relief unit with anti-cavitation valves for Series 300 and 400
consists of an aluminum control block; each sub-flow is secured by a pressure relief valve, additionally with further check valves for cavitation protection
The example above is a pressure relief unit with anti-cavitation valves for 4-section Series 300

Pressure relief unit – flange-mounted, 2 equal sub-flows

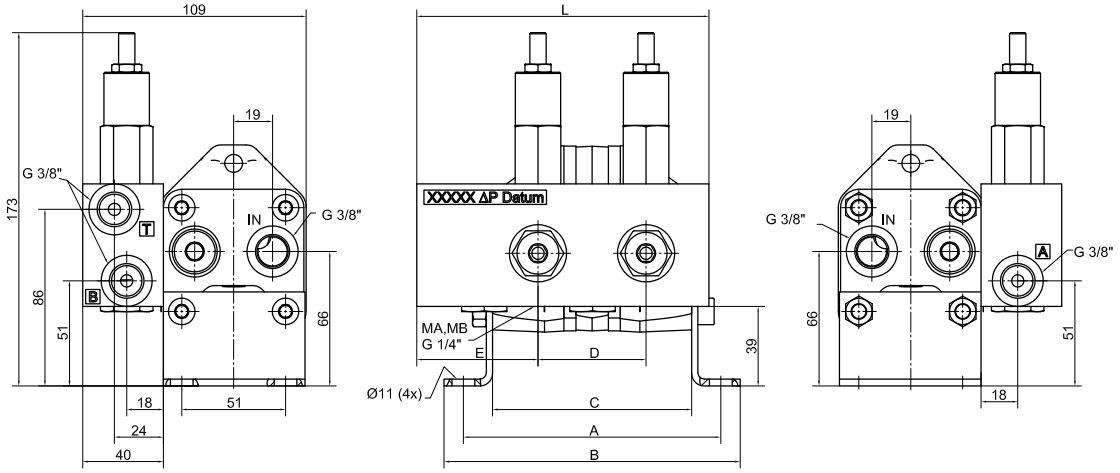
Series 200 - PR
Pressure relief unit



Different variants available:
B: designed for higher pressure
T: with increased division accuracy
All versions by default with mounting brackets
Please state in your query/order whether a pressure relief unit with anti-cavitation valves is required.

pressure relief unit	Dim. A±2 [mm]	Dim. B±2 [mm]	Dim. C [mm]	Dim. D [mm]	Dim. L [mm]
PR 202	126	145	97,4	53	113
PR 204	135	154	106,1	61,5	121
PR 207	149	168	120,1	75,5	135

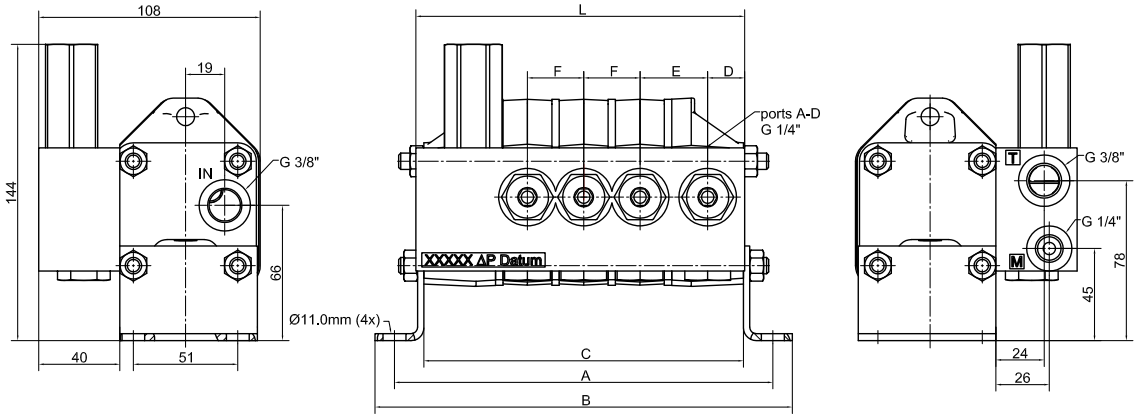
Series 200 - PR pressure relief unit + cavitation protection



Different variants available:
B: designed for higher pressure
T: with increased division accuracy
All versions by default with mounting brackets
Please state in your query/order whether a pressure relief unit with anti-cavitation valves is required.

pressure relief unit with anti cavitation	Dim. A±2 [mm]	Dim. B±2 [mm]	Dim. C [mm]	Dim. D [mm]	Dim. E [mm]	Dim. L [mm]
PR 202	126	145	97,4	52.9	59.3	143
PR 204	135	154	106,1	61.5	59.3	152
PR 207	149	168	120,1	75.5	30	135

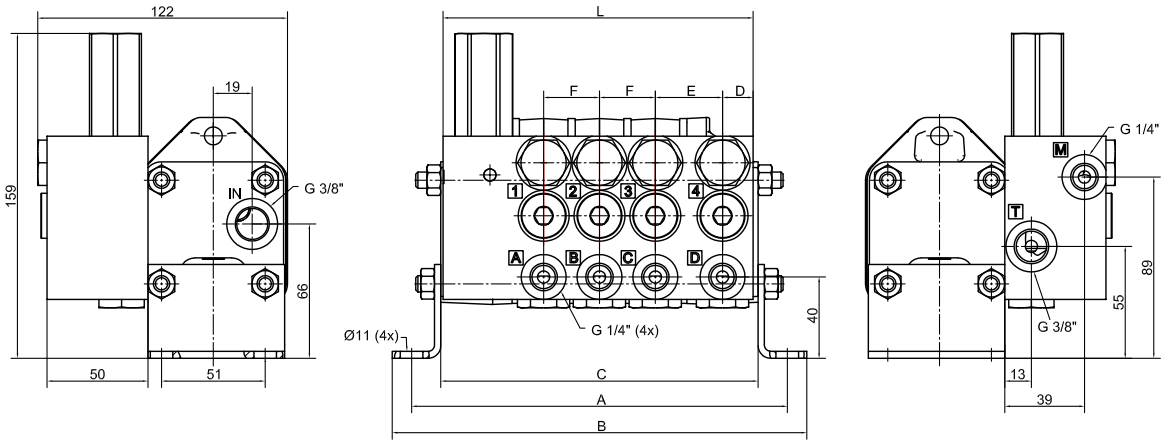
Series 200 - PR pressure relief unit with cavitation protection



Different variants available:
B: designed for higher pressure
T: with increased division accuracy
All versions by default with mounting brackets
Please state in your query/order whether a pressure relief unit is required.

pressure relief unit	Dim. A±2 [mm]	Dim. B±2 [mm]	Dim. C [mm]	Dim. D [mm]	Dim. E [mm]	Dim. F [mm]	Dim. L [mm]
PR 201-59	184	203	156	18	32.9	27.4	160
PR 202-59	193	212	165	16	35.2	29.7	163
PR 204-59	211	230	182	15	39.5	34.0	175

Series 200 - PR pressure relief unit with cavitation protection



Different variants available:
B: designed for higher pressure
T: with increased division accuracy
All versions by default with mounting brackets
Please state in your query/order whether a pressure relief unit with anti-cavitation valves is required.

pressure relief unit with anti cavitation	Dim. A±2 [mm]	Dim. B±2 [mm]	Dim. C [mm]	Dim. D [mm]	Dim. E [mm]	Dim. F [mm]	Dim. L [mm]
PR 201-59	184	203	155	15	32.9	27.4	152
PR 202-59	193	213	165	18	35.2	29.7	162
PR 204-59	211	231	183	16	39.5	34.0	165

Ordering code

Size 200

1	2		3					4	
PR	202	-							
PR	204	-	59					-	A
PM	202	-	5	-	7	-	0	-	B

1

PR = standard 2-section or 4-section division
PM = modular design

2

Chamber sizes
Standard 2-section sizes: 202, 204, 207
Standard 4-section sizes: 201, 202, 204
Other sizes: 201, 202, 203, 204, 205, 207, 210

3

Number of chambers:
blank = standard 2-section
from 3 equal sub-flows on

number of sections	3	4	5	6
identification of section	60	59	58	57

for Series 200 - PM proportional or 2-section division: last digit of the respective chamber

4

Versions:
blank = standard without mounting brackets (only for standard devices)
A = standard with mounting brackets (only for standard devices)
S = designed for higher pressure, without mounting brackets (only standard for PR)
B = designed for higher pressure, with mounting brackets
T = B-Version with increased division accuracy

Size 300, 400, high pressure

1	2		3					4	
PR	307	-							
PR	304	-	59					-	S
PR	307	-	0	-	2	-	5	-	S
PR	304	-	04					-	T
HR	312	-	2					-	T

1

PR series up to max. 210 bar continuous pressure
H series up to max. 240 bar continuous pressure
HR series up to max. 240 bar continuous pressure with integrated pressure relief valves

2

Chamber sizes
Standard 2-section sizes: 300: 307, 310, 315
Other sizes:: 304, 307, 310, 312, 315
Standard 2-fach Baugröße 400 (nur 2-fach): 411, 418

3

Number of chambers:
blank = standard 2-section
from 3 equal sub-flows on

number of sections	3	4	5	6
identification of section	60	59	58	57

for proportional division: last digit of the respective chamber
for 2-section division PR series: the last two digits of the chamber for 2-section division H, HR series: last digit of the chamber

4

Versions (each with mounting brackets):
blank = standard (307, 310, 315, 411, 418)
S = designed for higher pressure
T = B-Version with increased division accuracy

Guidelines

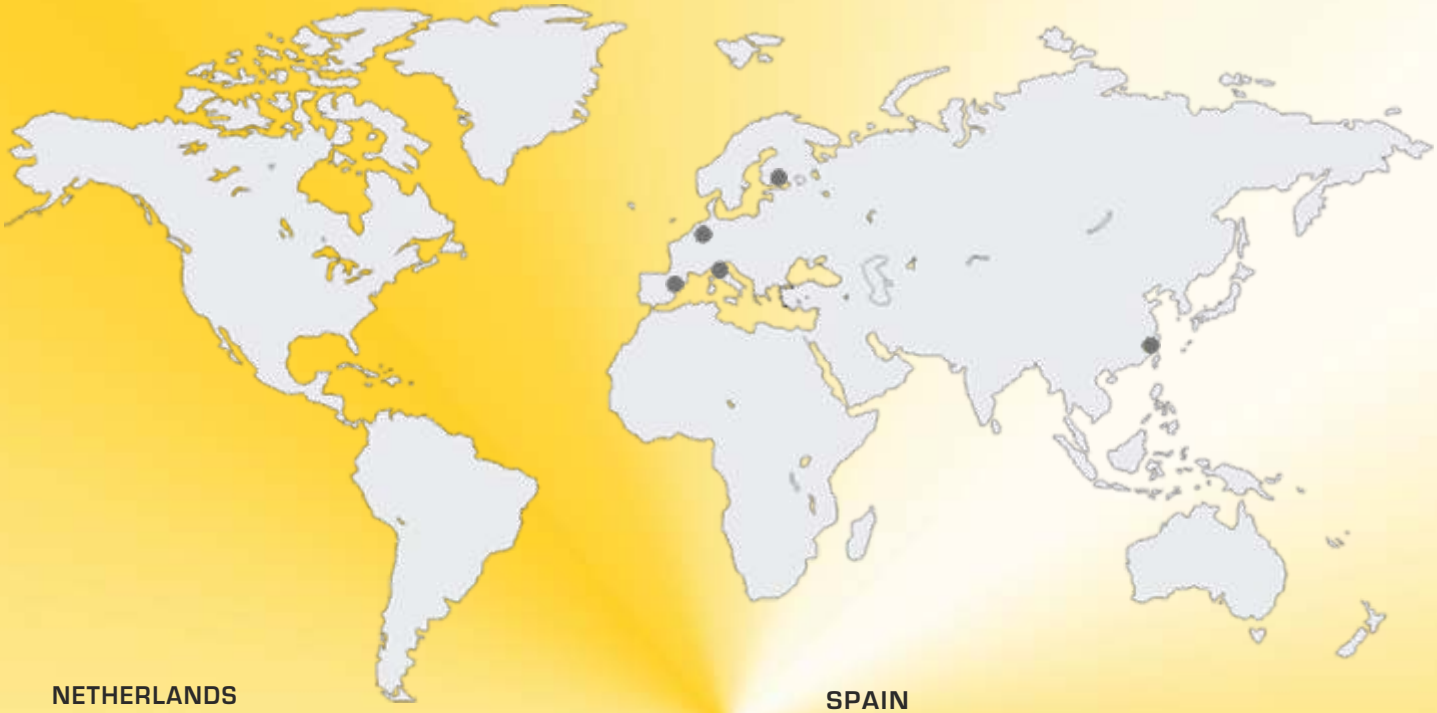
Liters	Chambers	Model	Displacement	rpm
10	2	PR 202	1,9	2640
	3	PM 202-60	1,9	1760
	4	PR 201-59	1,1	2280
	5	PM 201-58	1,1	1820
	6	PM 201-57	1,1	1520
	7	PM 201-56	1,1	1300
	8	PM 201-55	1,1	1140
15	2	PR 204	3,3	2270
	3	PM 203-60	2,5	2000
	4	PR 202–59	1,9	1980
	5	PM 202-58	1,9	1578
	6	PM 201-57	1,1	2280
	7	PM 201-56	1,1	1950
	8	PM 201-55	1,1	1710
20	2	PR 207	5,6	1790
	3	PM 204-60	3,3	2020
	4	PR 204-59	3,3	1515
	5	PM 202-58	1,9	2110
	6	PM 202-57	1,9	1760
	7	PM 201-56	1,1	2600
	8	PM 201-55	1,1	2280
30	2	PR 207	5,6	2680
	3	PM 205-60	4,3	2330
	4	PR 204-59	3,3	2272
	5	PM 203-58	2,5	2400
	6	PM 203-57	2,5	2000
	7	PM 202-56	1,9	2260
	8	PM 202-55	1,9	1980
40	2	PR 307	11,7	1710
	3	PM 207-60	5,6	2380
	4	PM 205-59	4,3	2330
	5	PM 205-58	4,3	1860
	6	PM 204-57	3,3	2020
	7	PM 203-56	2,5	2290
	8	PM 203-55	2,5	2000
50	2	PR 307	11,7	2140
	3	PM 210-60	8,2	2032
	4	PM 210-59	8,2	1524
	5	PM 205-58	4,3	2330
	6	PM 205-57	4,3	1937
	7	PM 204-56	3,3	2164
	8	PM 204-55	3,3	1893
60	2	PR 310	16,4	1829
	3	PR 307-60	11,7	1709
	4	PR 304-59	6,8	2205
	5	PM 207-58	5,6	2142
	6	PM 205-57	4,3	2330
	7	PM 205-56	4,3	1993
	8	PM 204-55	3,3	2272
80	2	PR 310	16,4	2440
	3	PR 307-60	11,7	2280
	4	PR 307-59	11,7	1709
	5	PM 210-58	8,2	1951
	6	PM 207-57	5,6	2380
	7	PM 207-56	5,6	2040
	8	PM 205-55	4,3	2330
100	2	PR 315	24,4	2050
	3	PR 310-60	16,4	2032
	4	PR 307-59	11,7	2140
	5	PR 307-58	11,7	1709
	6	PR 304-57	6,8	2450
	7	PM 210-56	8,2	1742
	8	PM 207-55	5,6	2232

Liters	Chambers	Model	Displacement	rpm
125	2	PR 411	38,6	1619
	3	PR 312-60	20,5	2032
	4	PR 310-59	16,4	1905
	5	PR 307-58	11,7	2140
	6	PR 307-57	11,7	1780
	7	PR 307-56	11,7	1526
	8	PR 304-55	6,8	2297
175	2	PR 411	38,6	2270
	3	PR 315-60	24,4	2390
	4	PR 312-59	20,5	2134
	5	PR 310-58	16,4	2134
	6	PR 310-57	16,4	1778
	7	PR 307-56	11,7	2140
	8	PR 307-55	11,7	1869
150	2	PR 411	38,6	1950
	3	PR 312-60	20,5	2440
	4	PR 310-59	16,4	2290
	5	PR 310-58	16,4	1829
	6	PR 307-57	11,7	2140
	7	PR 307-56	11,7	1831
	8	PM 210-55	8,2	2286
200	2	PR 411	38,6	2590
	3	PR 315-60	24,4	2740
	4	PR 315-59	24,4	2049
	5	PR 312-58	20,5	1951
	6	PR 310-57	16,4	2032
	7	PR 310-56	16,4	1742
	8	PR 307-55	11,7	2140
225	2	PR 418	64	1757
	4	PR 315-59	24,4	2305
	5	PR 312-58	20,5	2195
	6	PR 310-57	16,4	2290
	7	PR 310-56	16,4	1959
	8	PR 310-55	16,4	1714
250	2	PR 418	64	1960
	4	PR 315-59	24,4	2570
	5	PR 315-58	24,4	2049
	6	PR 312-57	20,5	2032
	7	PR 310-56	16,4	2180
	8	PR 310-55	16,4	1905
300	2	PR 418	64	2350
	5	PR 315-58	24,4	2459
	6	PR 315-57	24,4	2049
	7	PR 312-56	20,5	2090
	8	PR 310-55	16,4	2290
350	2	PR 418	64	2740
	5	PR 315-58	24,4	2870
	6	PR 315-57	24,4	2390
	7	PR 315-56	24,4	2049
	8	PR 312-55	20,5	2134
400	6	PR 315-57	24,4	2740
	7	PR 315-56	24,4	2341
	8	PR 315-55	24,4	2049

The stated data are exclusively intended to describe examples of speed and must not be understood as guaranteed features in the legal sense. Please do not hesitate to contact us in case of questions.

POWER-HYDRAULIK

Agencies abroad



NETHERLANDS
Holland Hydraulics b.v
Binnenhavenstraat 14
NL-7553 GJ Hengelo (O)
Phone. + 31 74 - 29 17 848
Fax: +31 74 - 25 06 413
Email: info@holland-hydraulics.nl
www.holland-hydraulics.nl

FINLAND
MASINO HYDROSTO OY
Tiilitie 3
SF-01720 Vantaa
Phone. + 358 9 47 68 00
Fax: +358 9 47 68 0395
Email: sales@masino-hydrosto.fin
www.masino.fi

ITALY
Nord Fluid S.p.A.
Via Keplero, 24
IT-20019 Settimo Milanese (MI)
Phone. +39.02.3397941
Fax. +39.02.38101388
Email: info@nordfluid.it
www.nordfluid.it

SPAIN
A.R. Sistemas
Parc Tecnológic del Vallés
Ronda Can Fatjó, No. 19A
E-08290 Cerdanyola del Vallés(Barcelona)
Phone. +34 93 - 675 25 05
Fax: +34 93 - 675 09 60
Email: ar@arsistemas.net
www.arsistemas.net

CHINA
Shanghai ZhenJun Mould Technology Co.,Ltd.
Room 1608, No.2063, KongJiang Road,
YangPu District
CN - Shanghai
Phone. + 86 21 33 77 68 80
Fax: +86 21 33 77 68 27
Email:zhenjunmould@163.com
www.heb-china.com.cn

Edition: 31.01.2015

POWER-HYDRAULIK GmbH Gottlieb-Daimler-Straße 4 72172 Sulz am Neckar
Tel. +49 7454 9584-0 power@power-hydraulik.de www.power-hydraulik.de