

SP 820 WATER JET PUMP

DATASHEET

Nominal size DN 10 - 80

Nominal size in inches 3/8 - 3

Nominal pressure PN in bar 10

Characteristics

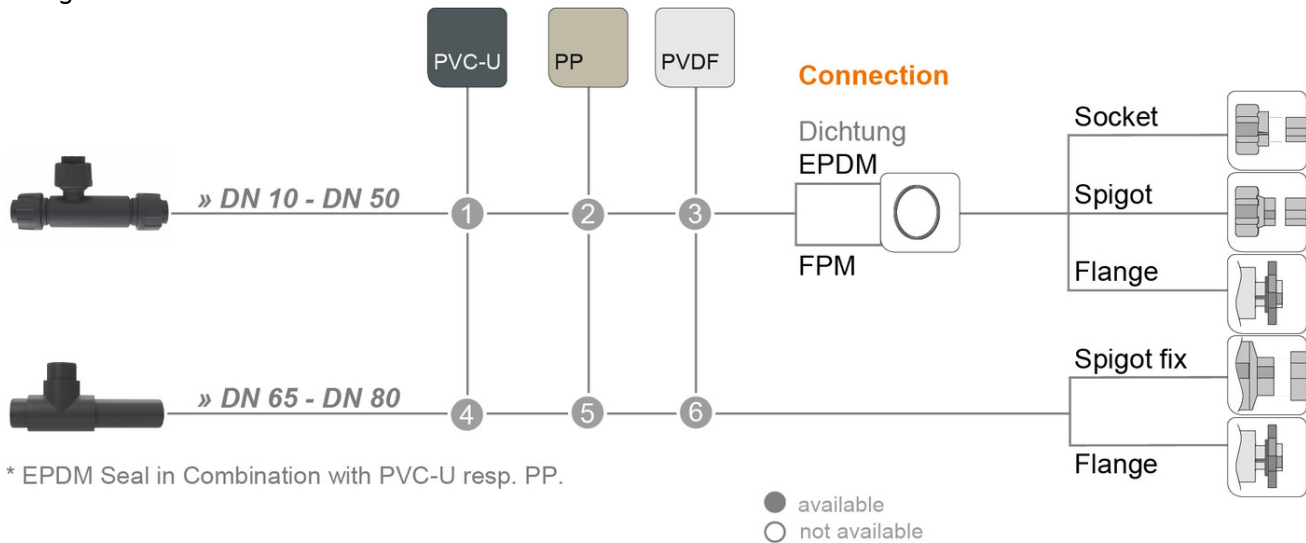
- simple maintenance
- no moving parts
- very low wear
- can also be used for aggressive media
- very good mixing effect
- high operating reliability
- low space requirement
- low investment costs

Note

- Standard with 1 mm nozzle bore. Optional nozzle bore - in 0,5 mm steps - available.



Pictogram



* EPDM Seal in Combination with PVC-U resp. PP.

Nozzle Bore: standard items with 1 mm bore.
Optional nozzle bore - in 0.5 mm steps - available:

Basic Nominal Sizes:

DN 8	DN 10	DN 15	DN 20	DN 25	DN 32	DN 40	DN 50	DN 65	DN 80	DN 100	DN 125	DN 150	DN 200	DN 250	DN 300	DN 350	DN 400
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Connection Material (process connection)

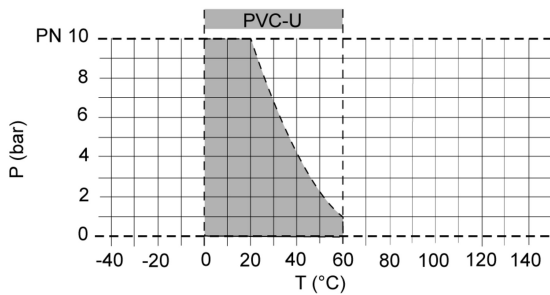
<p>1 PVC-U socket DIN, ANSI; BS; JIS female thread Rp 1.4571 male thread R female thread Rp PE spigot DIN (95mm) PP/St. flange DIN, ANSI * GFK flange DIN *</p> <p>2 PP socket DIN female thread Rp** spigot (IR)** PP/St. flange DIN, ANSI * GFK flange DIN *</p>	<p>3 PVDF socket DIN spigot (IR)** PP/St. flange DIN, ANSI *</p> <p>4 PVC-U spigot fix PP/St. flange DIN, ANSI</p> <p>5 PP spigot fix*** PP/St. flange DIN, ANSI</p> <p>6 PVDF spigot fix*** PP/St. flange DIN, ANSI</p> <p>* DN 20 - DN 50. ** DN 15 - DN 50. *** only for socket welding.</p>
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SP 820 Water jet pump

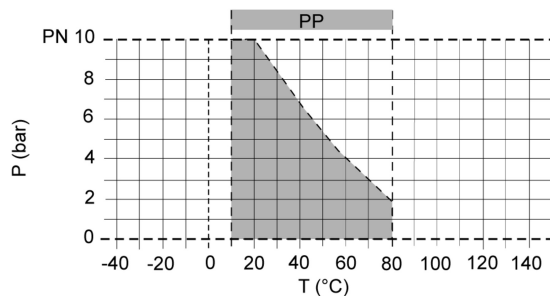
Use	<ul style="list-style-type: none"> - Chemical plant manufacture - Water treatment - electroplating plants
Application	<ul style="list-style-type: none"> - for mixing, dosing and delivering fluids - for evacuating air in pipes and containers - for pumping out containers or pits
Connection	<ul style="list-style-type: none"> - DN 10 to DN 50: Housing with screw connection DIN 8063 - DN 65 and DN 80: Housing with spigot
Process pressure	- see pressure-/temperature diagram
Flow medium	- Technically pure, neutral and aggressive fluids, provided that the selected valve materials are resistant at the operating temperature according to the STÜBBE resistance guide.
STÜBBE resistance guide	- www.stuebbe.com/pdf_resistance/300051.pdf
Function	<ul style="list-style-type: none"> - Propulsion fluid flows in the main flow direction through a nozzle fitted in the water-jet pump. The cross-section constriction caused by the nozzle bore causes acceleration of the propulsion fluid and thus a vacuum in the area of the suction socket that primes any provided fluid or gaseous media. - The intake quantity is a function of the propulsion fluid pressure and the nozzle bore. For the standard values for the intake quantity please refer to the diagram.
Housing material (with medium contact)	<ul style="list-style-type: none"> - PVC-U - PP - PVDF
Material sealing element (in contact with medium)	<ul style="list-style-type: none"> - EPDM - FPM
Nominal pressure PN in bar	- 10
Intake quantity	- For indicative values for water, air, vacuum and suction volume, see diagrams.
Flow direction	- Always in the direction of the arrow
Operation Note	- Provide a damping zone of at least 5 x DN upstream and downstream of the water-jet pump.
Colours	<ul style="list-style-type: none"> - Casing: PVC-U, grey RAL 7011 - Casing: PP, grey RAL 7032 - Casing: PVDF, opaque, yellowish-white
Design	<ul style="list-style-type: none"> - We recommend an empirical determination by adapting the nozzle bore to the desired operating point. For standard values see diagrams. - For indicative values for water, air, vacuum and suction volume, see diagrams.

SP 820 Water jet pump

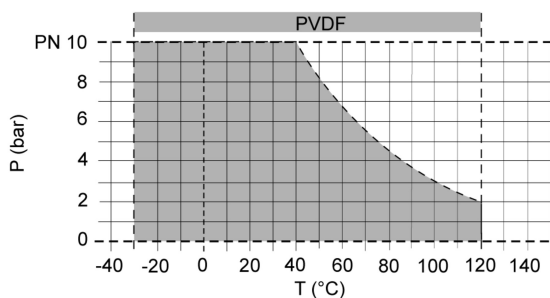
Pressure and temperature diagram PVC-U



Pressure and temperature diagram PP



Pressure and temperature diagram PVDF



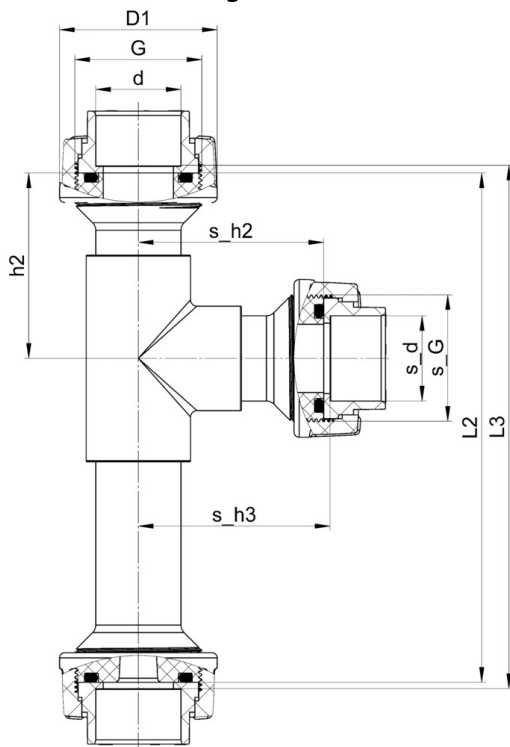
P = Operating pressure

T = Temperature

The pressure/temperature limits of the materials are valid for the stated nominal pressures and a service life of 25 years. These values are guide values for flow medium types which do not negatively impact the physical and chemical characteristics of the valve material. It may be necessary to take diminution factors into consideration. At temperatures below 0 °C (PP <+10 °C) we ask you to inquire about and specify the exact conditions of use! The nominal pressure (PN) depends on the size and the material of the housing.

SP 820 Water jet pump

Dimensioned drawing socket

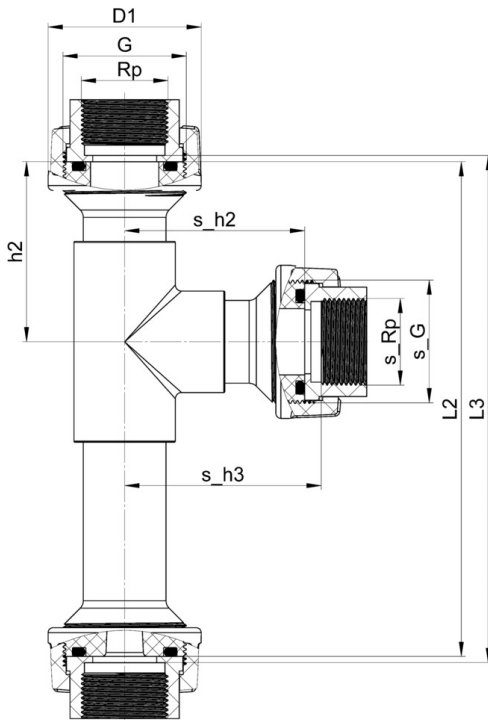


d			16	20	25	32	40	50	63
DN			10	15	20	25	32	40	50
DN*			¾	½	¾	1	1¼	1½	2
d			16	20	25	32	40	50	63
D1			35,5	46	56	66	79	87	107
G*			¾	1	1¼	1½	2	2¼	2¾
h2			40	38	45	71	87	105	128
L2			110	125	145	195	239	301	350
L3	PVC-U	ANSI	116	131	151	201	245	307	356
	PVC-U	BS	116	131	151	201	245	307	356
	PVC-U	DIN	116	131	151	201	245	307	356
	PVC-U	JIS	122	133	155	204	245	307	358
	PP	DIN	118	131	151	201	245	307	356
	PVDF	DIN	118	131	151	201	245	307	356
s_d			16	16	16	32	40	50	63
s_G*			¾	¾	¾	1½	2	2¼	2¾
s_h2			35	35	45	71	87	105	128
s_h3	PVC-U	ANSI	38	38	48	74	90	108	131
	PVC-U	BS	38	38	48	74	90	108	131
	PVC-U	DIN	38	38	48	74	90	108	131
	PVC-U	JIS	41	41	51	75,5	90	108	132
	PP	DIN	39	39	49	74	90	108	131
	PVDF	DIN	39	38	48	74	90	108	131

all dimensions in mm / * in inch

SP 820 Water jet pump

Dimensioned drawing female thread

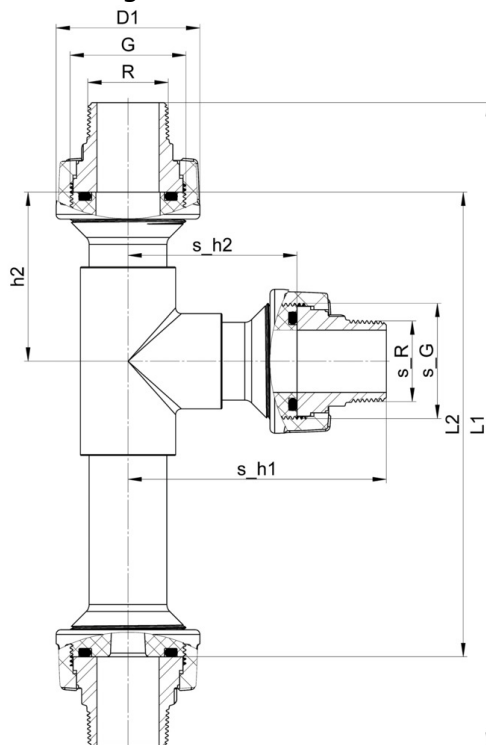


d		16	20	25	32	40	50	63	
DN		10	15	20	25	32	40	50	
DN*		¾	½	¾	1	1¼	1½	2	
D1		35,5	46	56	66	79	87	107	
G*		¾	1	1¼	1½	2	2¼	2¾	
h2		40	38	45	71	87	105	128	
L2		110	125	145	195	239	301	350	
L3	PVC-U	1.4571 (A4) Rp	120	135	156	209	255	319	368
	PVC-U	Rp	116	132,6	153	207,6	255	327	380,6
	PP	RP	118	131	151	201,6	246	307	360
Rp*		¾	½	¾	1	1¼	1½	2	
s_G*		¾	¾	¾	1½	2	2¼	2¾	
s_h2		35	35	45	71	87	105	128	
s_h3	PVC-U	1.4571 (A4) Rp	40	40	50	78	95	114	137
	PVC-U	Rp	38	38	48	77,3	95	118	142
	PP	RP	-	39	49	74,3	90,5	108	133
s_Rp*		-	-	¾	1	1¼	1½	2	

all dimensions in mm/ * dimensions in inch

SP 820 Water jet pump

Maßzeichnung Male thread

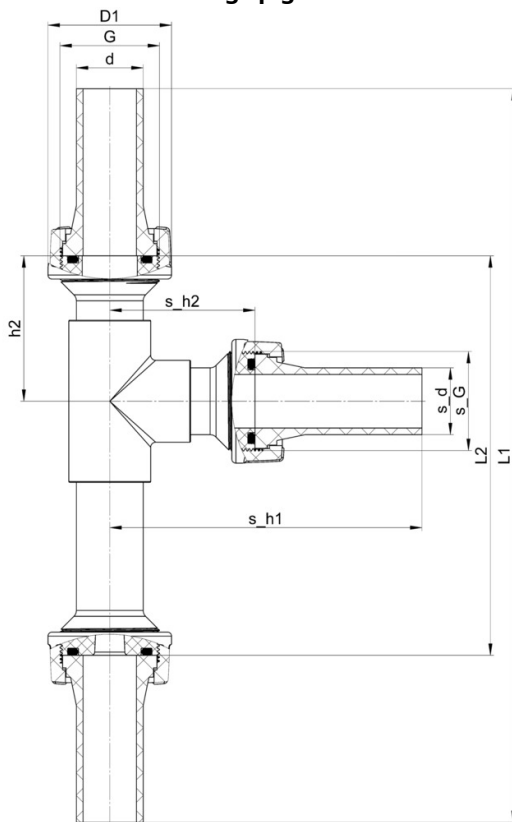


d		16	20	25	32	40	50	63
DN		10	15	20	25	32	40	50
DN*		¾	½	¾	1	1¼	1½	2
D1		35,5	46	56	66	79	87	107
G*		¾	1	1¼	1½	2	2¼	2¾
h2		40	38	45	71	87	105	128
L1	PVC-U	1.4571 (A4) R	172	193	217	275	331	397
			110	125	145	195	239	301
R*		¾	½	¾	1	1¼	1½	2
s_G*		¾	¾	¾	1½	2	2¼	2¾
s_h1	PVC-U	1.4571 (A4) R	66	69	81	111	133	153
s_h2			35	35	45	71	87	105
s_R*			-	-	¾	1	1¼	1½
								2

all dimensions in mm/ * dimensions in inch

SP 820 Water jet pump

Dimensioned drawing spigot end

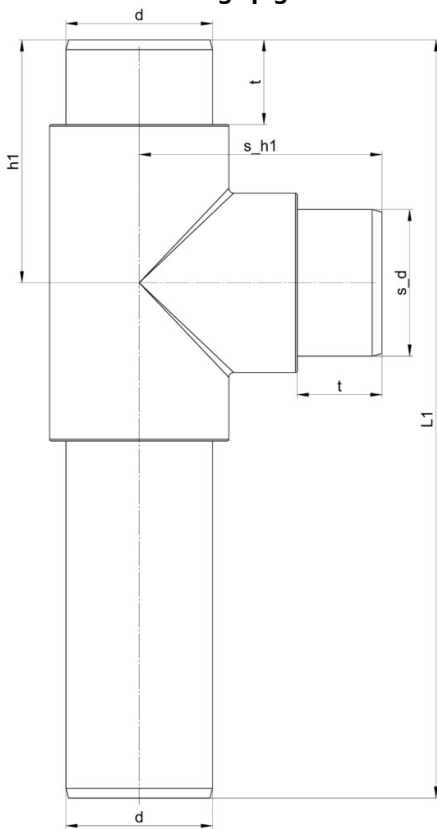


d	16	20	25	32	40	50	63		
DN	10	15	20	25	32	40	50		
DN*	¾	½	¾	1	1¼	1½	2		
d	16	20	25	32	40	50	63		
D1	35,5	46	56	66	79	87	107		
G*	¾	1	1¼	1½	2	2¼	2¾		
h2	40	38	45	71	87	105	128		
L1	PVC-U	PE100 DIN	-	-	-	385	439	529	598
	PP	IR	-	233	259	315	365	434	488
L2	110	125	145	195	239	301	350		
s_d	16	16	16	32	40	50	63		
s_G*	¾	¾	¾	1½	2	2¼	2¾		
s_h1	PVC-U	PE100 DIN	-	-	-	166	187	219	252
	PP	IR	-	-	99	131	150	171,5	197
s_h2	35	35	45	71	87	105	128		

all dimensions in mm/ * dimensions in inch

SP 820 Water jet pump

Dimensioned drawing spigot fixed

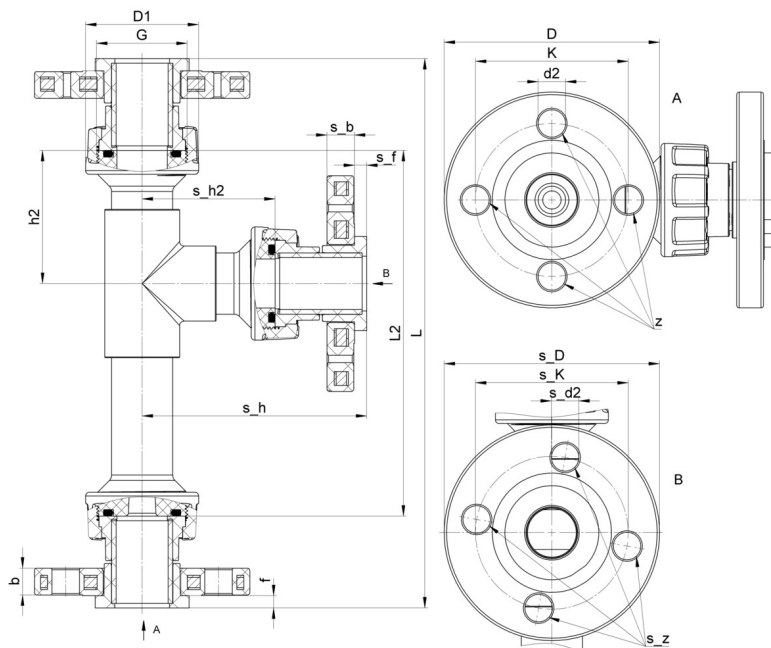


d	75	90
DN	65	80
DN*	2½	3
d	75	90
h1	128	149
L1	388	465
s_d	75	90
s_h1	128	149
t	45	60

all dimensions in mm / * in inch

SP 820 Water jet pump

Dimensioned drawing flange adapter

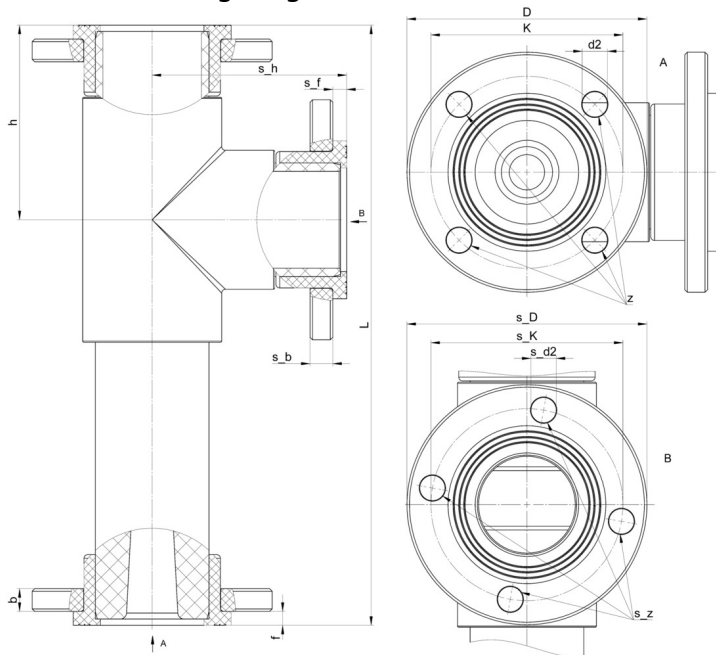


d		25	32	40	50	63
DN		20	25	32	40	50
DN*		¾	1	1¼	1½	2
b	DIN	14,5	15,5	17,5	17,5	19
	ANSI	12	16	16	18	18
D	DIN	106	116	141	151	166
	ANSI	105	113	130	133	160
D1		56	66	79	87	107
d2	DIN	14	14	18	18	18
	ANSI	16	16	16	16	20
f		7	10	11	13	14
G*		1¼	1½	2	2¼	2¾
h2		45	71	87	105	128
K	DIN	75	85	100	110	125
	ANSI	70	80	89	98	121
L		249	309	327	441	519
L2		145	195	239	301	350
s_b	DIN	13	15,5	17,5	17,5	19
	ANSI	12	16	16	18	18
s_D	DIN	96	116	141	151	166
	ANSI	95	113	130	133	160
s_d2	DIN	14	14	18	18	18
	ANSI	16	16	16	16	20
s_f		6	10	11	13	14
s_h		93	119	147	175	212
s_h2		45	71	87	105	128
s_K	DIN	65	85	100	110	125
	ANSI	60	80	89	98	121
z / s_z	DIN	4	4	4	4	4
	ANSI	4	4	4	4	4

all dimensions in mm / * in inch

SP 820 Water jet pump

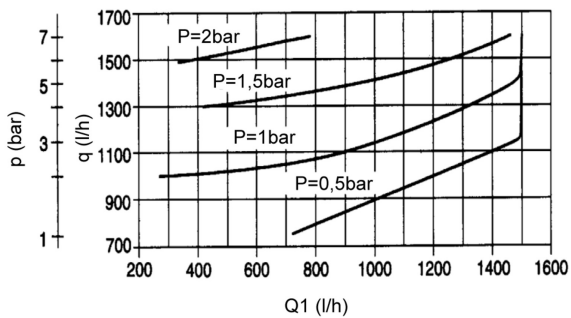
Dimensioned drawing flange



d			75	90
DN			65	80
DN*			2½	3
b	DIN		19	21
	ANSI		18,5	18
D	DIN		186	201
	ANSI		180	190
d2	DIN		18	18
	ANSI		19	20
f	PVC-U / PP	DIN / ANSI	10	11
	PVDF	DIN / ANSI	15,6	11
h			131	154
K		DIN	145	160
		ANSI	140	152
L	PVC-U	PVC-U	394	475
	PP / PVDF	PP / PVDF	396	475
s_b		DIN	19	21
		ANSI	18,5	18
s_D		DIN	186	201
		ANSI	180	190
s_d2		DIN	18	18
		ANSI	19	20
s_f	PP	DIN	10	11
		ANSI	10,6	11,8
	PVC-U	DIN / ANSI	11	11
		PVDF	DIN / ANSI	15,6
s_h			131,5	154
s_K		DIN	145	160
		ANSI	140	152
z / s_z		DIN	4	8
		ANSI	4	4

all dimensions in mm / * in inch

SP 820 Water jet pump



Example 1:

We are looking for the propulsion water pressure or the propulsion water quantity for:

- Intake quantity of 900l/H₂O
- Counterpressure of 1 bar

According to the diagram:

- propulsion water pressure approx. 2.5 bar
- propulsion water quantity approx. 1000 l/h

Example 2:

We are looking for the suction quantity for:

- propulsion water pressure of 5 bar
- Counter pressure of 1.5 bar

According to the diagram:

Intake volume approx. 1,080 l/h

-

p = propulsion water pressure (bar)

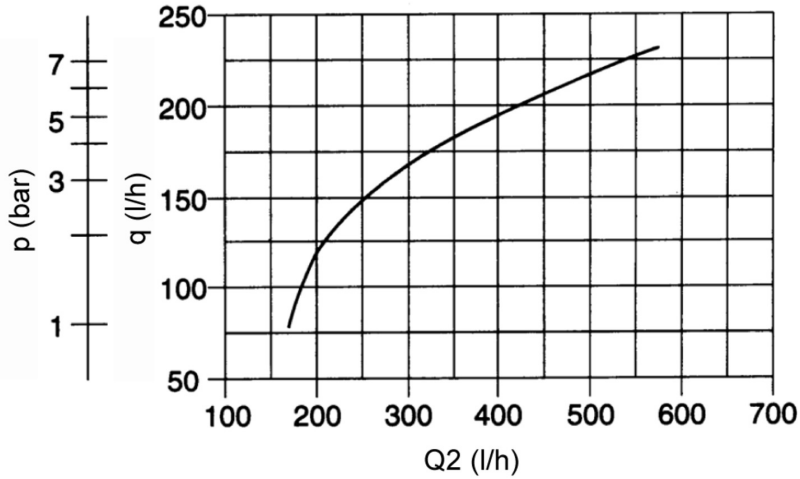
q = propulsion water quantity (l/h)

P = counterpressure (bar)

Q1 = intake quantity (l/h) (water)

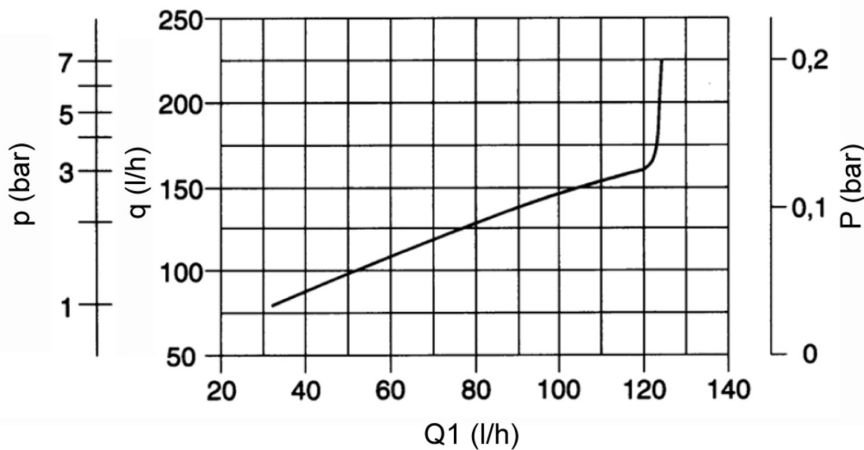
SP 820 Water jet pump

DN 10, nozzle bore 1,5 mm, Intake medium air



- p** = propulsion water pressure (bar)
- q** = propulsion water quantity (l/h)
- P** = counterpressure (bar)
- Q2** = intake quantity (l/h) (air)

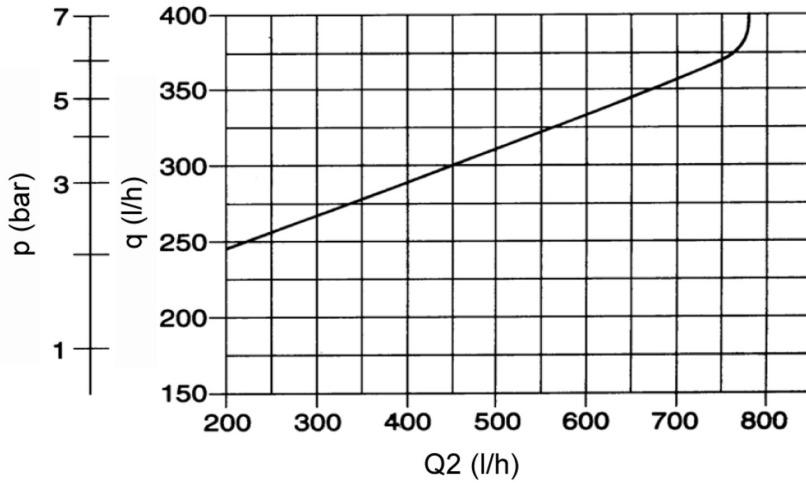
DN 10, nozzle bore 1,5 mm, intake medium water



- p** = propulsion water pressure (bar)
- q** = propulsion water quantity (l/h)
- P** = counterpressure (bar)
- Q1** = intake quantity (l/h) (water)

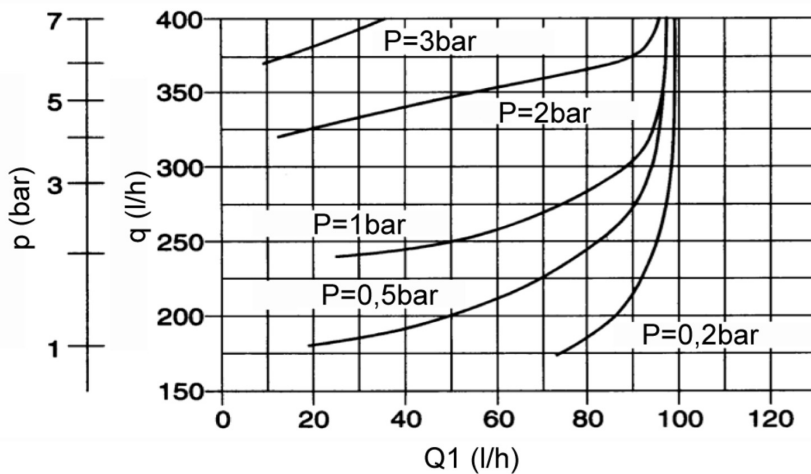
SP 820 Water jet pump

DN 10, nozzle bore 2,0 mm, intake medium air



- p** = propulsion water pressure (bar)
- q** = propulsion water quantity (l/h)
- P** = counterpressure (bar)
- Q2** = intake quantity (l/h) (air)

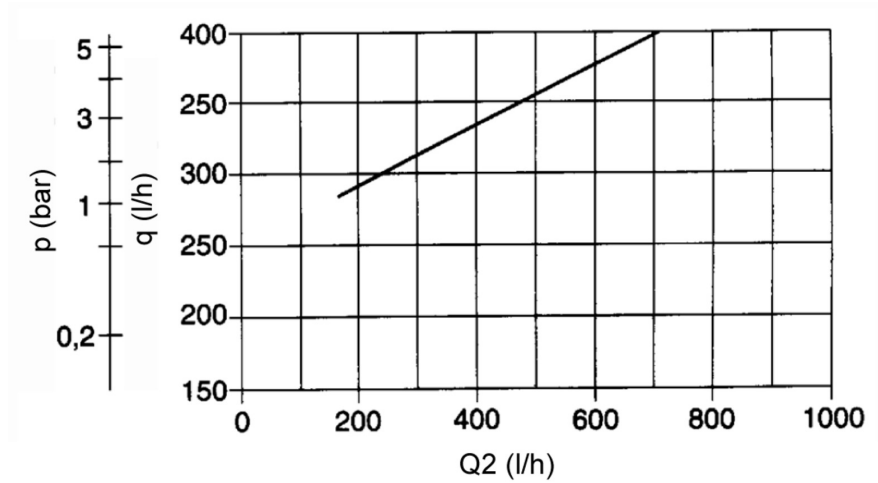
DN 10, nozzle bore 2,0 mm, intake medium water



- p** = propulsion water pressure (bar)
- q** = propulsion water quantity (l/h)
- P** = counterpressure (bar)
- Q1** = intake quantity (l/h) (water)

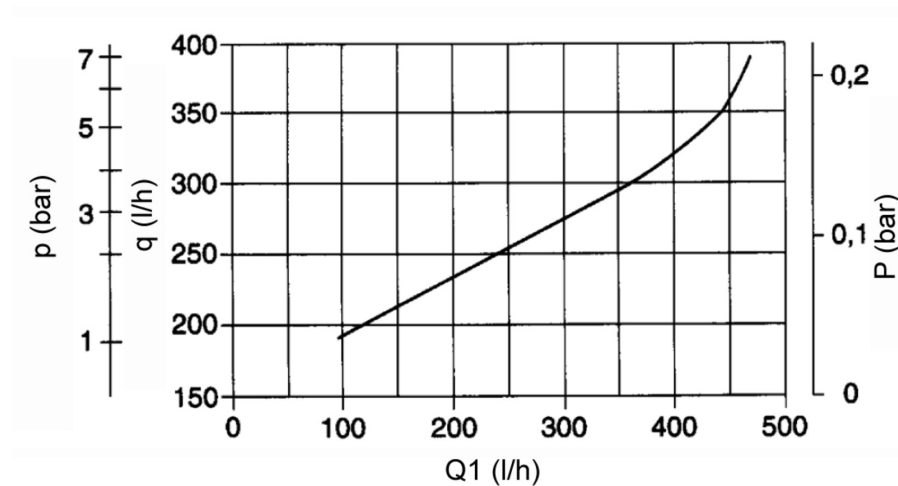
SP 820 Water jet pump

DN 15, nozzle bore 2,0 mm, intake medium air



p = propulsion water pressure (bar)
q = propulsion water quantity (l/h)
P = counterpressure (bar)
Q2 = intake quantity (l/h) (air)

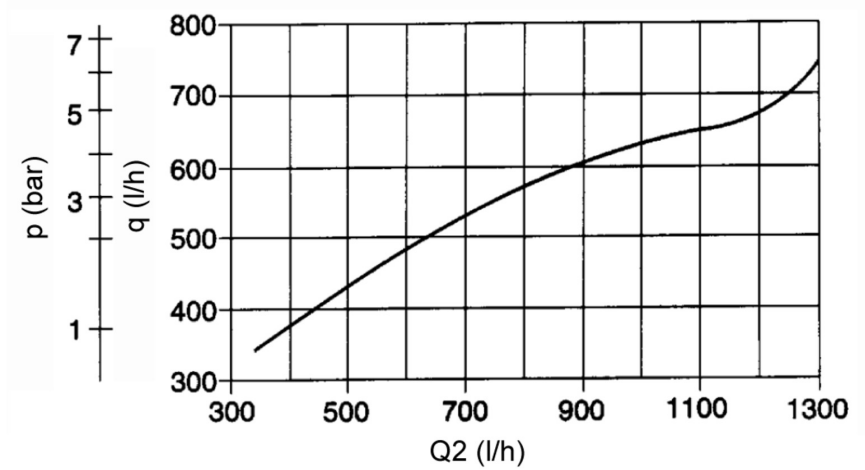
DN 15, nozzle bore 2,0 mm, intake medium water



p = propulsion water pressure (bar)
q = propulsion water quantity (l/h)
P = counterpressure (bar)
Q1 = intake quantity (l/h) (water)

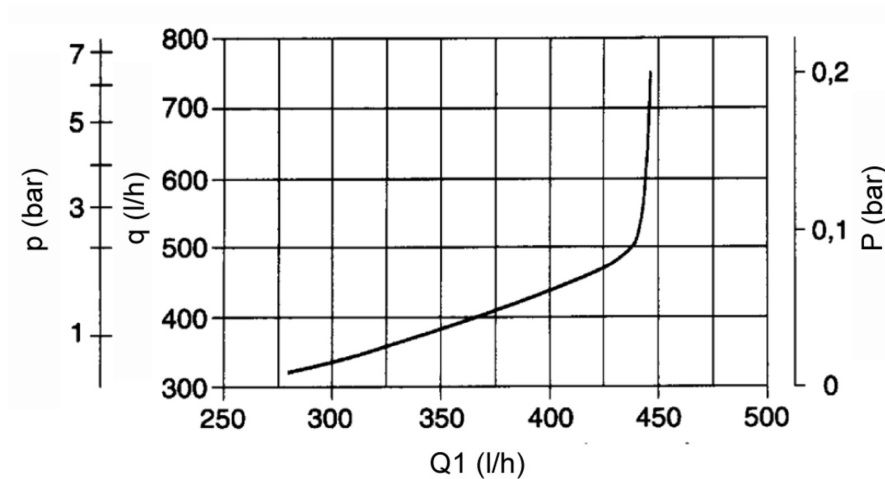
SP 820 Water jet pump

DN 15, nozzle bore 3,0 mm, intake medium air



p = propulsion water pressure (bar)
q = propulsion water quantity (l/h)
P = counterpressure (bar)
Q2 = intake quantity (l/h) (air)

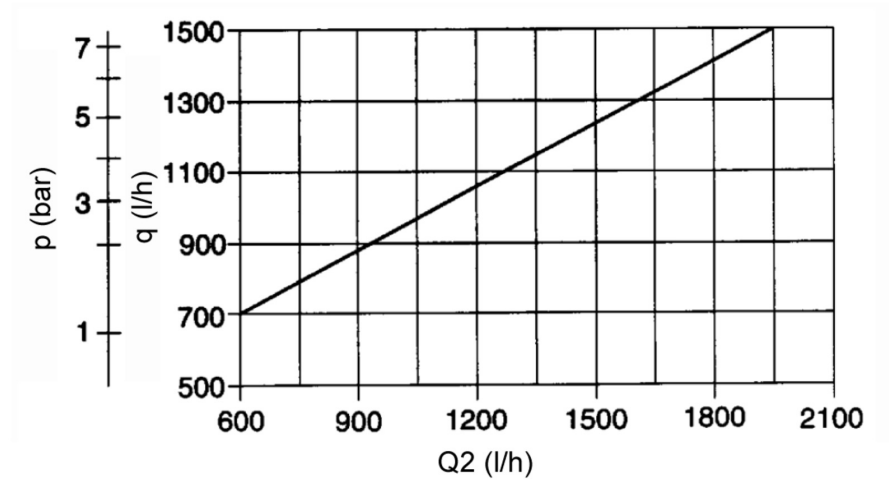
DN 15, nozzle bore 3,0 mm, intake medium water



p = propulsion water pressure (bar)
q = propulsion water quantity (l/h)
P = counterpressure (bar)
Q1 = intake quantity (l/h) (water)

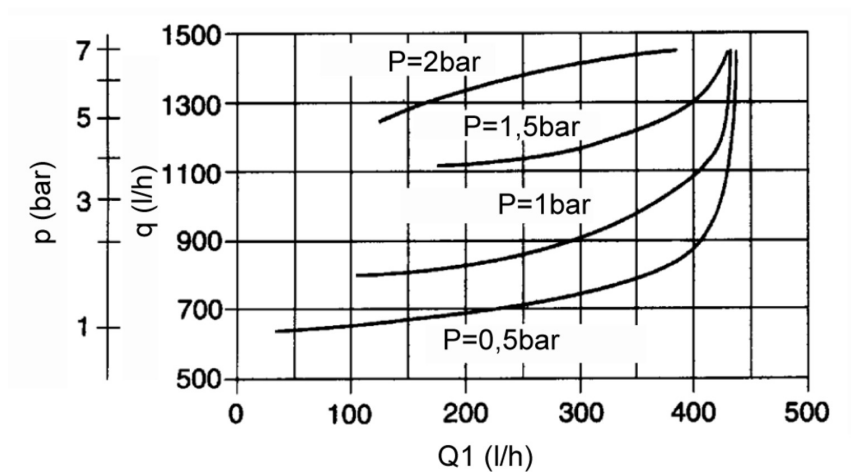
SP 820 Water jet pump

DN 15, nozzle bore 4,0 mm, Intake medium air



p = propulsion water pressure (bar)
q = propulsion water quantity (l/h)
P = counterpressure (bar)
Q2 = intake quantity (l/h) (air)

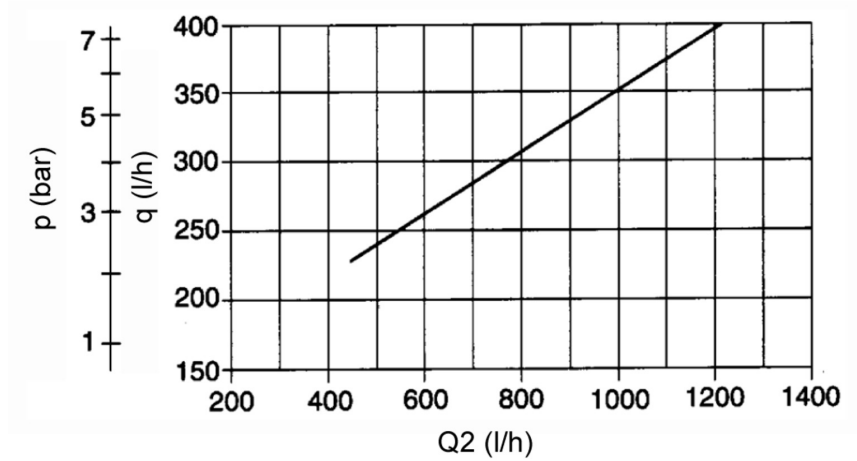
DN 15, nozzle bore 4,0 mm, intake medium water



p = propulsion water pressure (bar)
q = propulsion water quantity (l/h)
P = counterpressure (bar)
Q1 = intake quantity (l/h) (water)

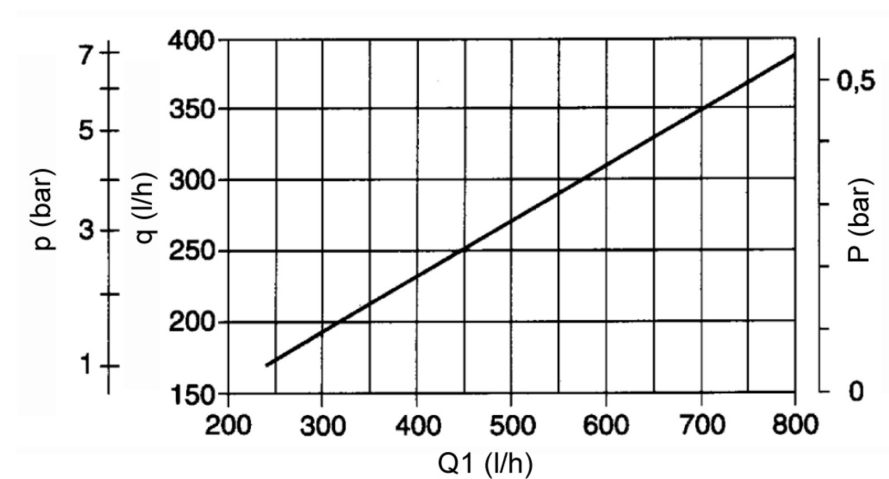
SP 820 Water jet pump

DN 20, nozzle bore 3,0 mm, intake medium air



p = propulsion water pressure (bar)
q = propulsion water quantity (l/h)
P = counterpressure (bar)
Q2 = intake quantity (l/h) (air)

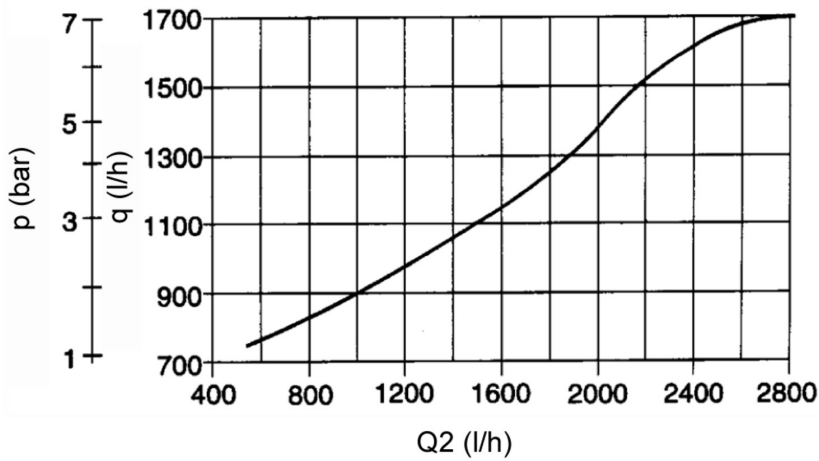
DN 20, nozzle bore 3,0 mm, intake medium water



p = propulsion water pressure (bar)
q = propulsion water quantity (l/h)
P = counterpressure (bar)
Q1 = intake quantity (l/h) (water)

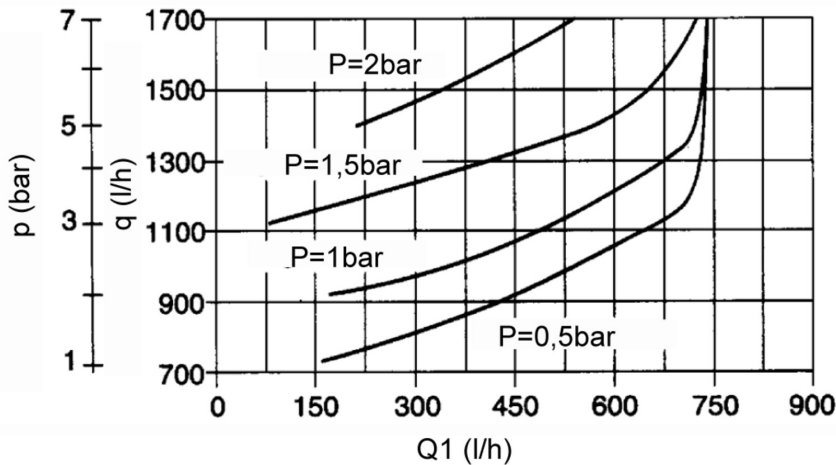
SP 820 Water jet pump

DN 20, nozzle bore 4,5 mm, intake medium air



p = propulsion water pressure (bar)
q = propulsion water quantity (l/h)
P = counterpressure (bar)
Q2 = intake quantity (l/h) (air)

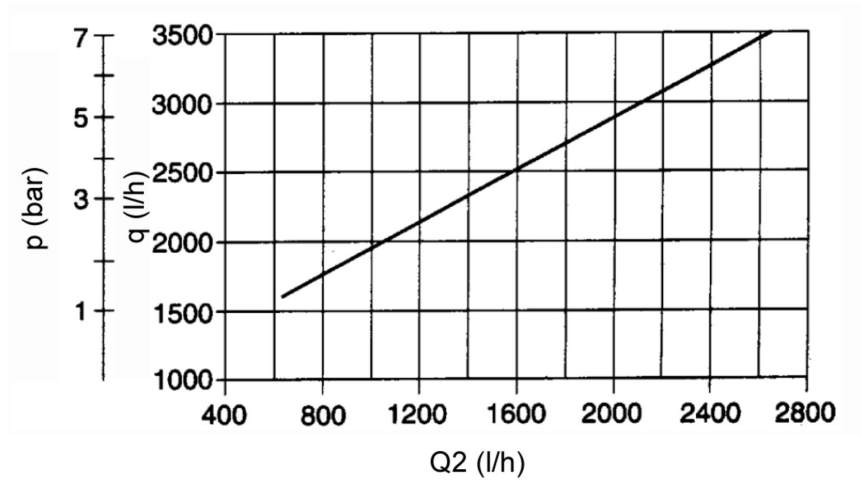
DN 20, nozzle bore 4,5 mm, intake medium water



p = propulsion water pressure (bar)
q = propulsion water quantity (l/h)
P = counterpressure (bar)
Q1 = intake quantity (l/h) (water)

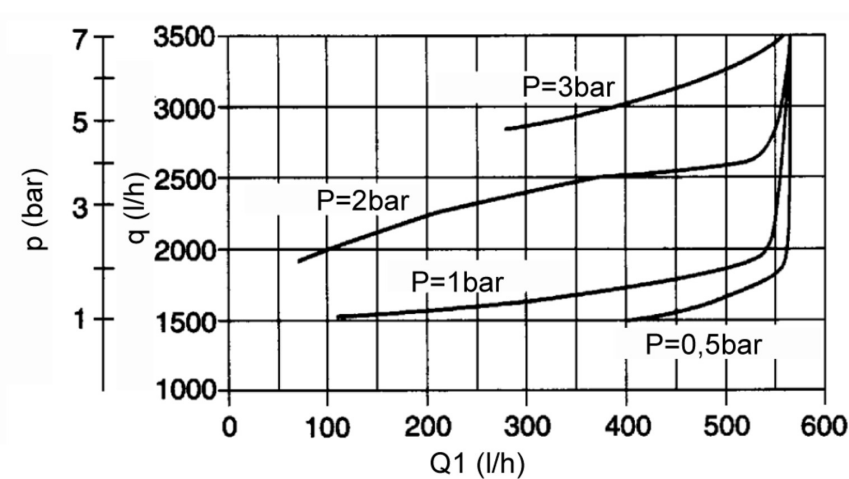
SP 820 Water jet pump

DN 20, nozzle bore 6,0 mm, intake medium air



p = propulsion water pressure (bar)
q = propulsion water quantity (l/h)
P = counterpressure (bar)
Q2 = intake quantity (l/h) (air)

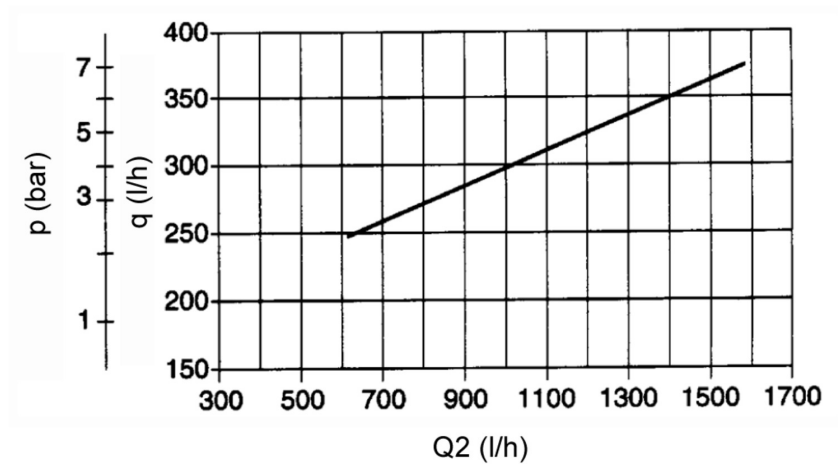
DN 20, nozzle bore 6,0 mm; intake medium water



p = propulsion water pressure (bar)
q = propulsion water quantity (l/h)
P = counterpressure (bar)
Q1 = intake quantity (l/h) (water)

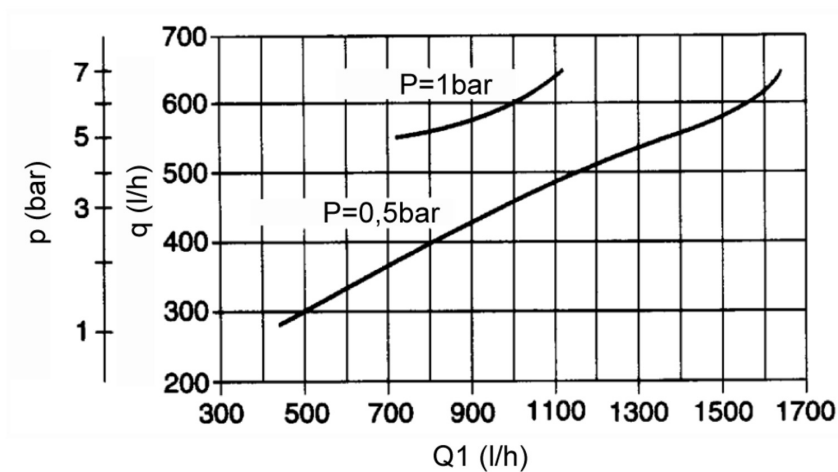
SP 820 Water jet pump

DN 25, nozzle bore 2,5 mm, intake medium air



p = propulsion water pressure (bar)
q = propulsion water quantity (l/h)
P = counterpressure (bar)
Q2 = intake quantity (l/h) (air)

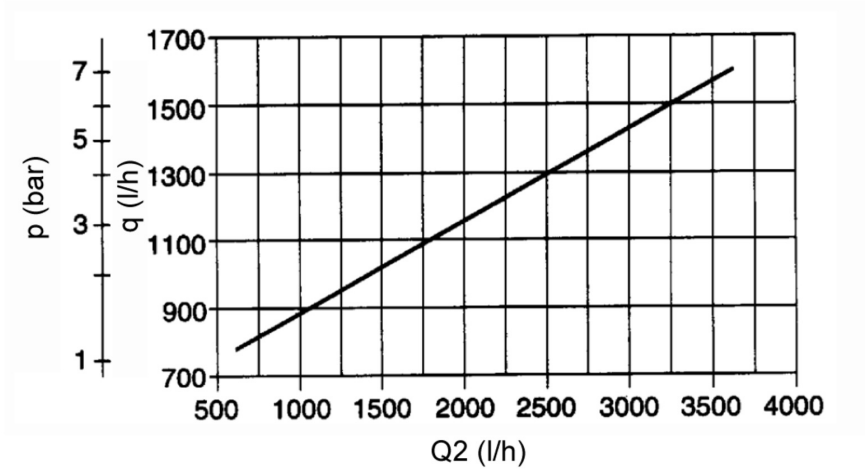
DN 25, nozzle bore 2,5 mm; intake medium water



p = propulsion water pressure (bar)
q = propulsion water quantity (l/h)
P = counterpressure (bar)
Q1 = intake quantity (l/h) (water)

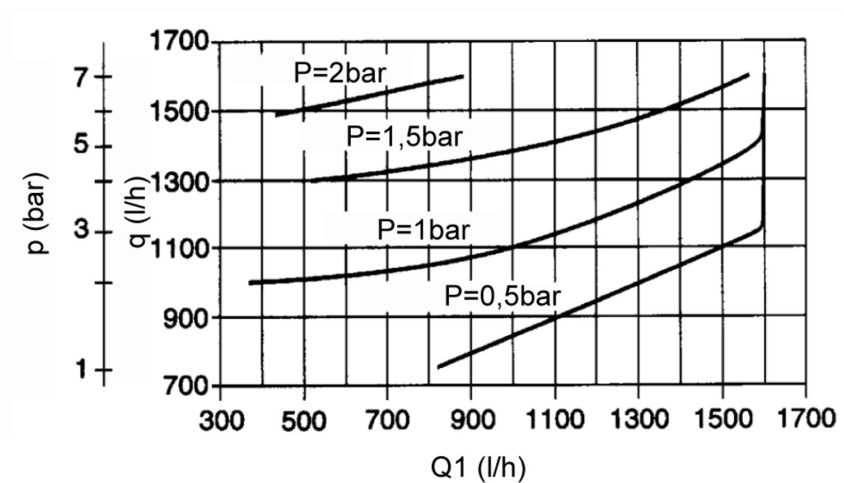
SP 820 Water jet pump

DN 25, nozzle bore 4.0 mm; intake medium air



p = propulsion water pressure (bar)
q = propulsion water quantity (l/h)
P = counterpressure (bar)
Q2 = intake quantity (l/h) (air)

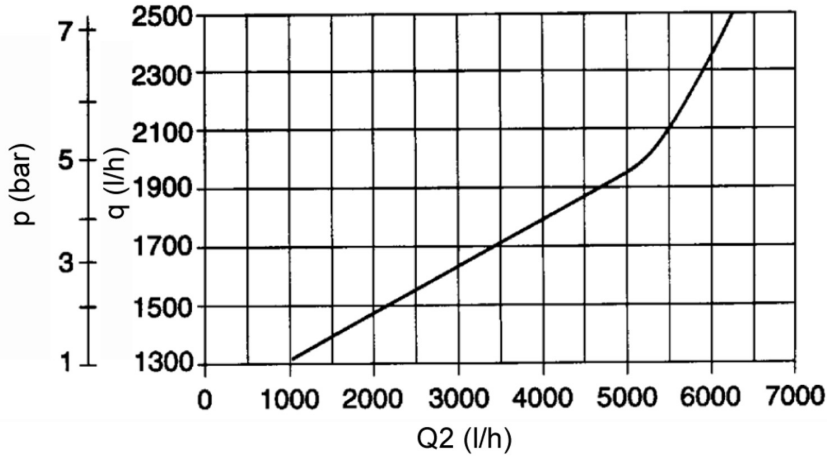
DN 25, nozzle bore 4.0 mm, intake medium water



p = propulsion water pressure (bar)
q = propulsion water quantity (l/h)
P = counterpressure (bar)
Q1 = intake quantity (l/h) (water)

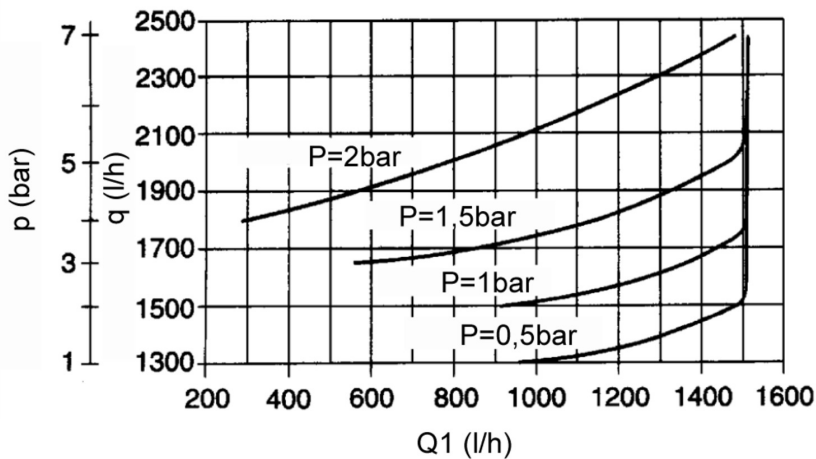
SP 820 Water jet pump

DN 25, nozzle bore 5,0 mm, intake medium air



p = propulsion water pressure (bar)
q = propulsion water quantity (l/h)
P = counterpressure (bar)
Q2 = intake quantity (l/h) (air)

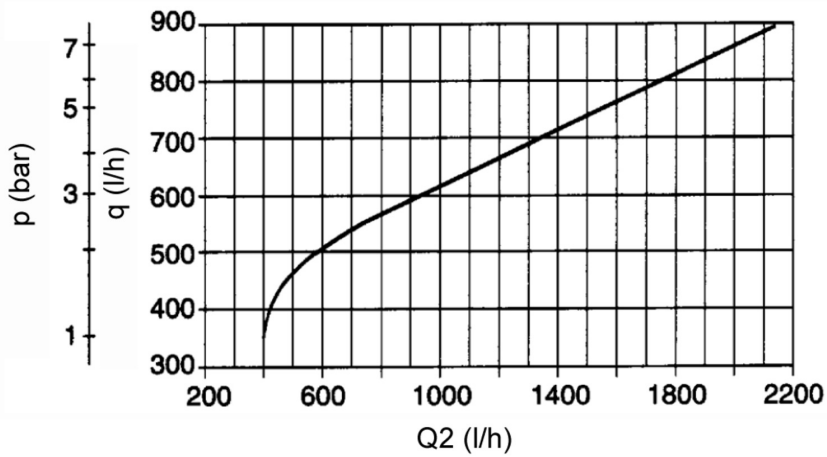
DN 25, nozzle bore 5.0 mm, intake medium water



p = propulsion water pressure (bar)
q = propulsion water quantity (l/h)
P = counterpressure (bar)
Q1 = intake quantity (l/h) (water)

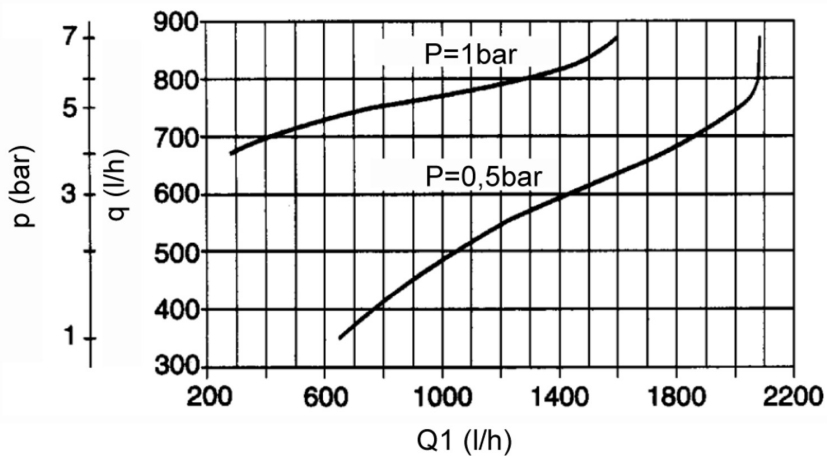
SP 820 Water jet pump

DN 32, nozzle bore 3,0 mm; intake medium air



p = propulsion water pressure (bar)
q = propulsion water quantity (l/h)
P = counterpressure (bar)
Q2 = intake quantity (l/h) (air)

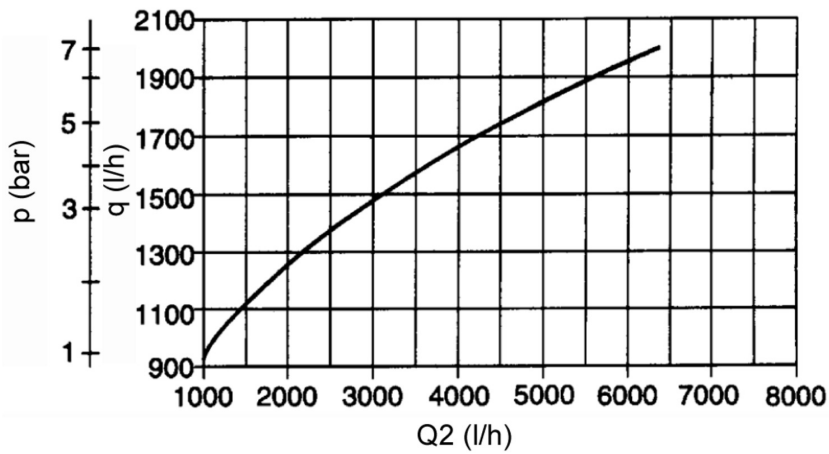
DN 32, nozzle bore 3,0 mm, intake medium water



p = propulsion water pressure (bar)
q = propulsion water quantity (l/h)
P = counterpressure (bar)
Q1 = intake quantity (l/h) (water)

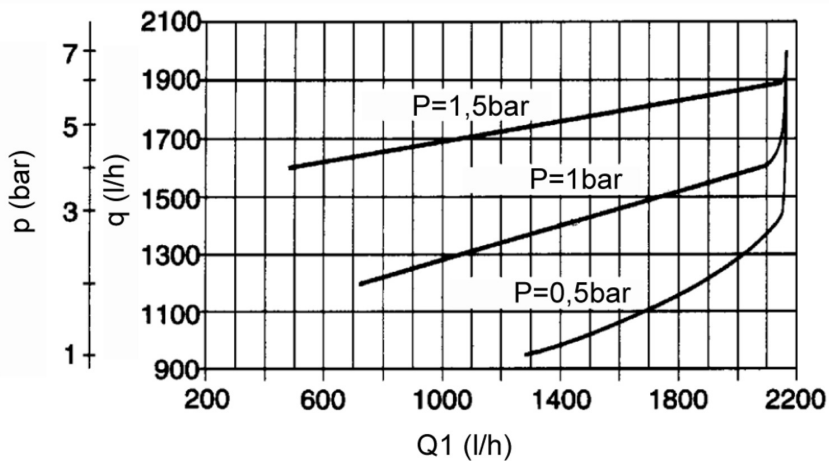
SP 820 Water jet pump

DN 32, nozzle bore 4,5 mm, intake medium air



p = propulsion water pressure (bar)
q = propulsion water quantity (l/h)
P = counterpressure (bar)
Q2 = intake quantity (l/h) (air)

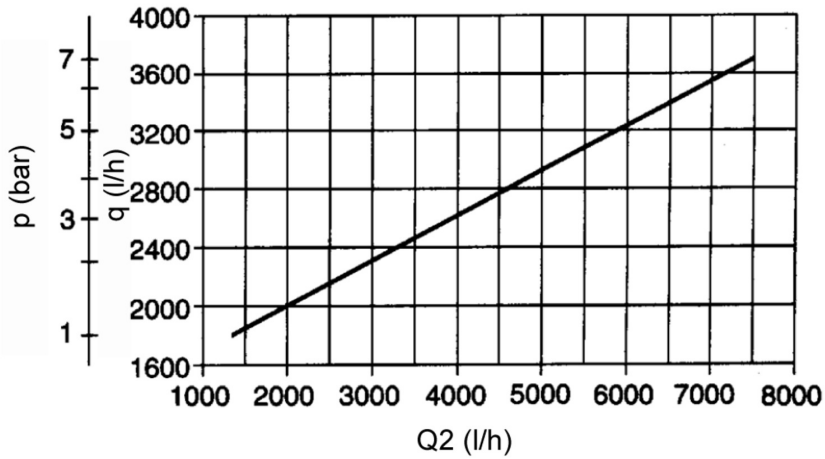
DN 32, nozzle bore 4,5 mm, intake medium water



p = propulsion water pressure (bar)
q = propulsion water quantity (l/h)
P = counterpressure (bar)
Q1 = intake quantity (l/h) (water)

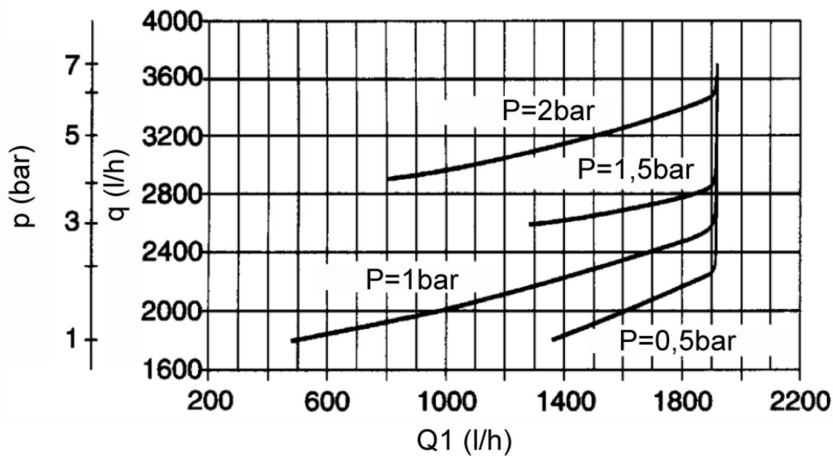
SP 820 Water jet pump

DN 32, nozzle bore 6,0 mm, intake medium air



- p** = propulsion water pressure (bar)
- q** = propulsion water quantity (l/h)
- P** = counterpressure (bar)
- Q2** = intake quantity (l/h) (air)

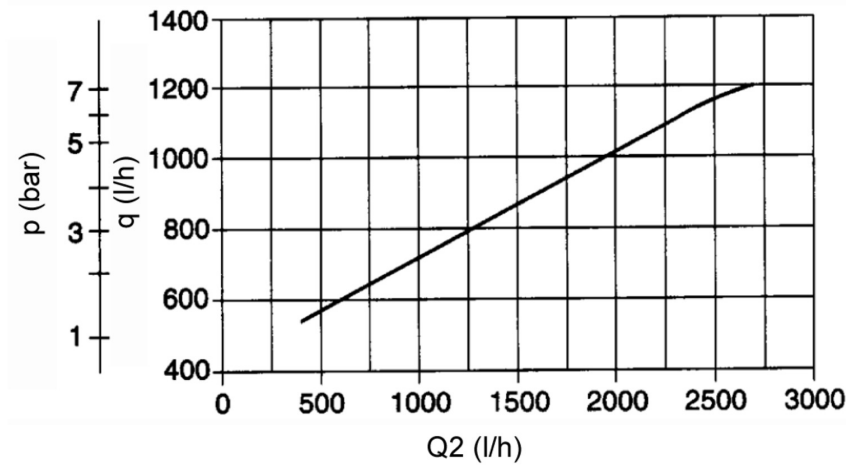
DN 32, nozzle bore 6,0 mm, Intake medium water



- p** = propulsion water pressure (bar)
- q** = propulsion water quantity (l/h)
- P** = counterpressure (bar)
- Q1** = intake quantity (l/h) (water)

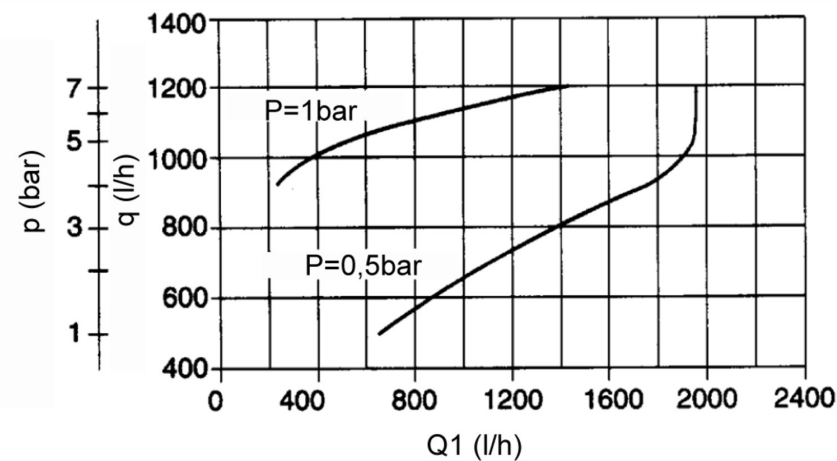
SP 820 Water jet pump

DN 40, nozzle bore 3,5 mm, intake medium air



p = propulsion water pressure (bar)
q = propulsion water quantity (l/h)
P = counterpressure (bar)
Q2 = intake quantity (l/h) (air)

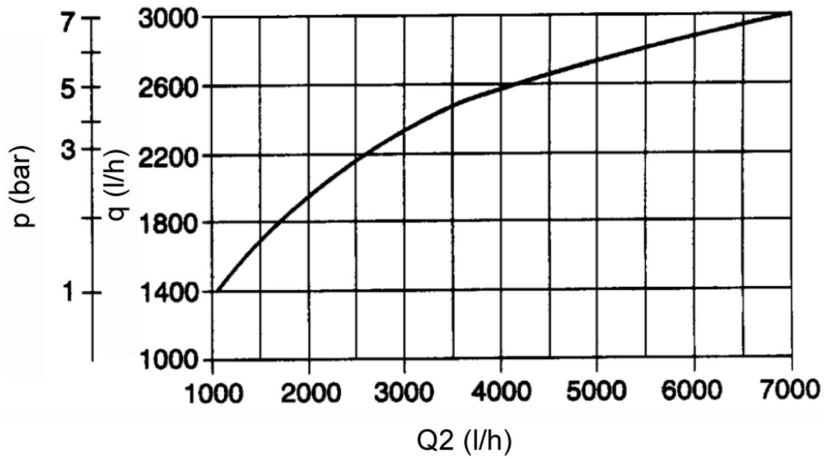
DN 40, nozzle bore 3,5 mm, intake medium water



p = propulsion water pressure (bar)
q = propulsion water quantity (l/h)
P = counterpressure (bar)
Q1 = intake quantity (l/h) (water)

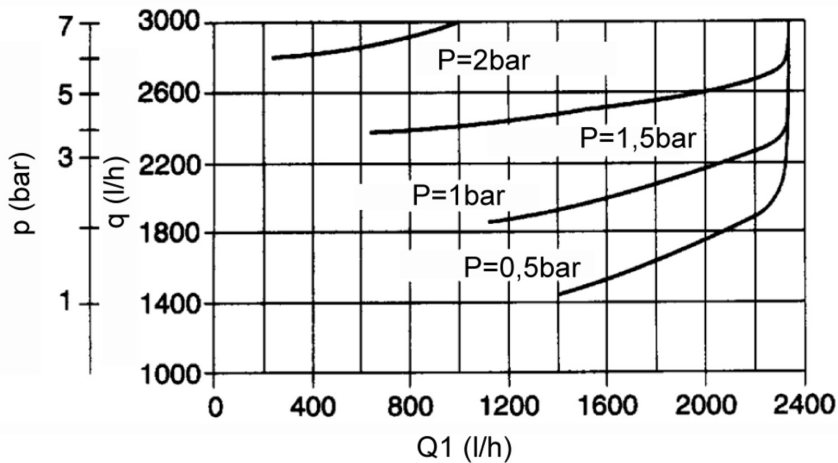
SP 820 Water jet pump

DN 40, nozzle bore 5,5 mm, intake medium air



p = propulsion water pressure (bar)
q = propulsion water quantity (l/h)
P = counterpressure (bar)
Q2 = intake quantity (l/h) (air)

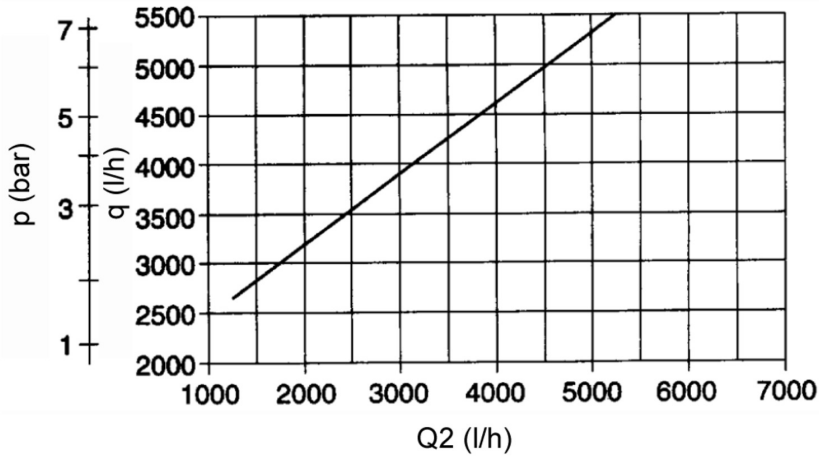
DN 40, nozzle bore 5,5 mm, intake medium water



p = propulsion water pressure (bar)
q = propulsion water quantity (l/h)
P = counterpressure (bar)
Q1 = intake quantity (l/h) (water)

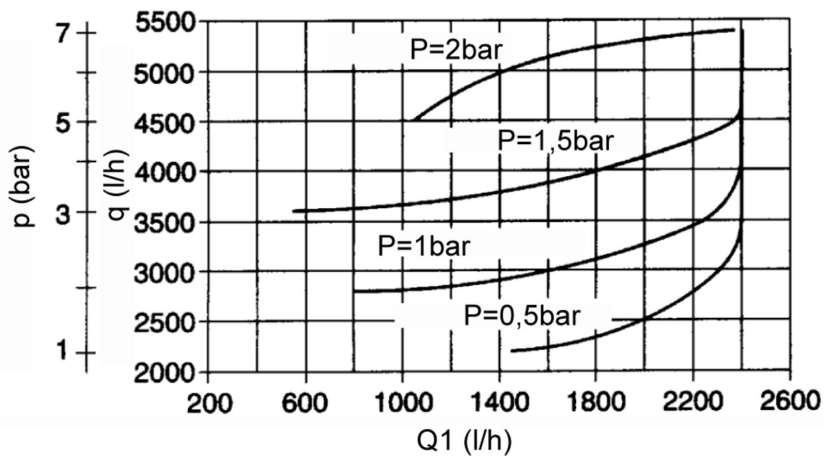
SP 820 Water jet pump

DN 40, nozzle bore 7,5 mm, intake medium air



p = propulsion water pressure (bar)
q = propulsion water quantity (l/h)
P = counterpressure (bar)
Q2 = intake quantity (l/h) (air)

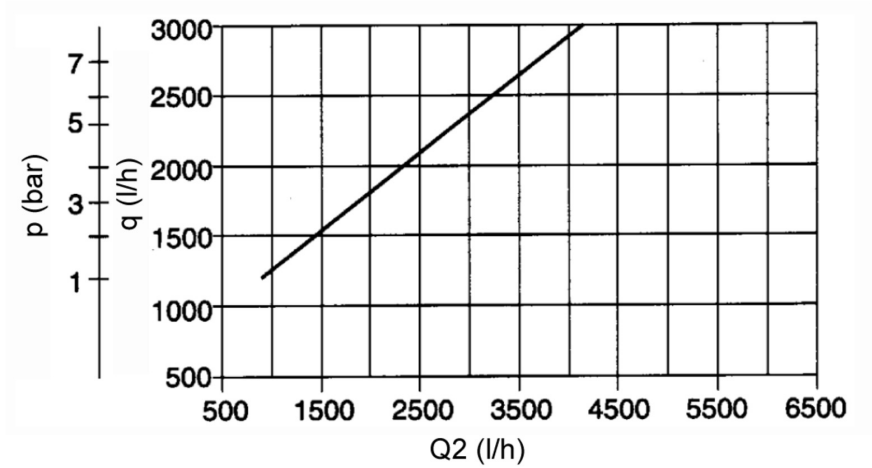
DN 40, nozzle bore 7,5 mm, intake medium water



p = propulsion water pressure (bar)
q = propulsion water quantity (l/h)
P = counterpressure (bar)
Q1 = intake quantity (l/h) (water)

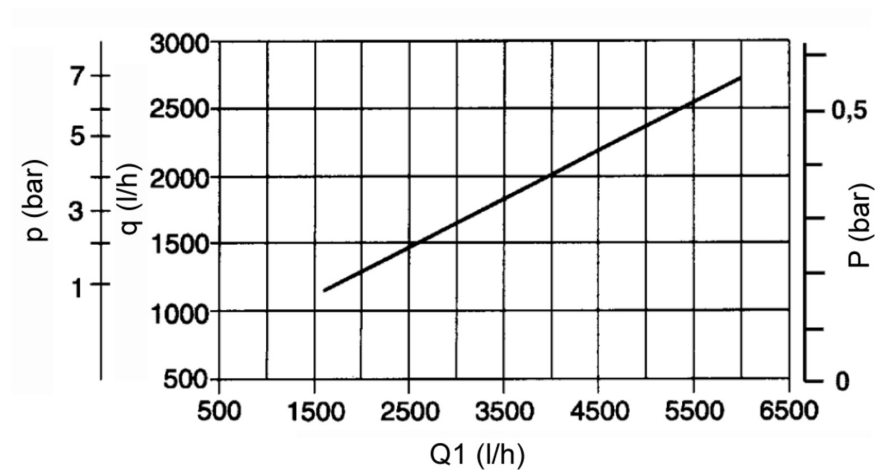
SP 820 Water jet pump

DN 50, nozzle bore 5,0 mm, intake medium air



p = propulsion water pressure (bar)
q = propulsion water quantity (l/h)
P = counterpressure (bar)
Q2 = intake quantity (l/h) (air)

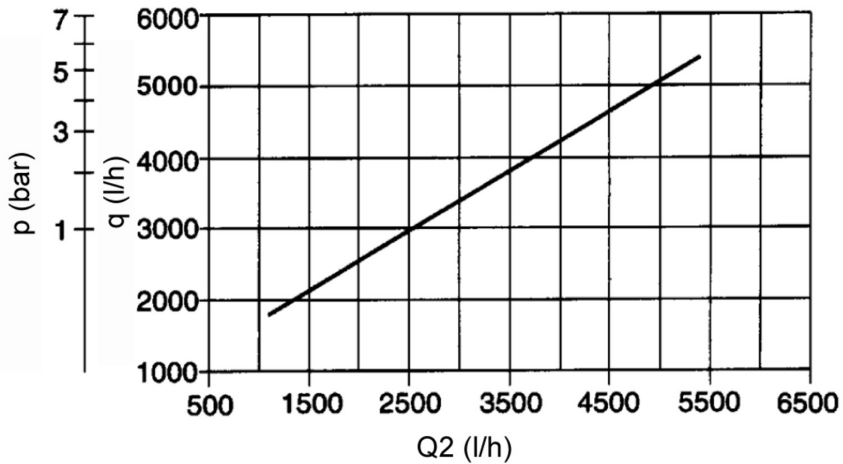
DN 50, nozzle bore 5,0 mm; intake medium water



p = propulsion water pressure (bar)
q = propulsion water quantity (l/h)
P = counterpressure (bar)
Q1 = intake quantity (l/h) (water)

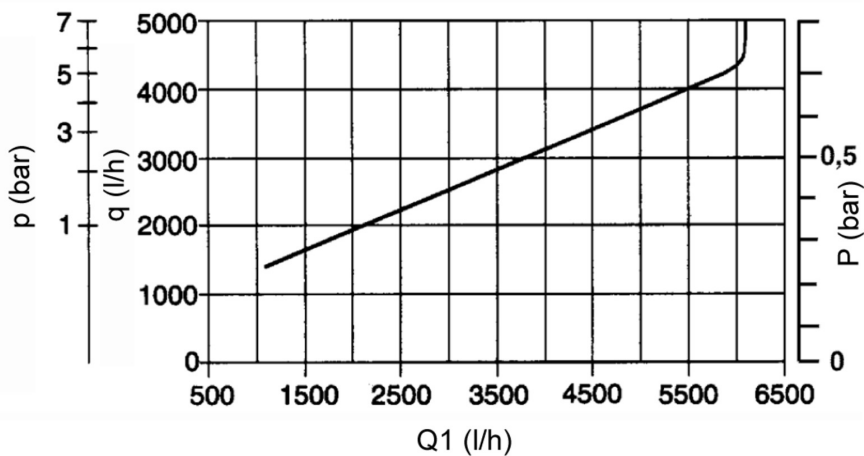
SP 820 Water jet pump

DN 50, nozzle bore 7,0 mm; intake medium air



p = propulsion water pressure (bar)
q = propulsion water quantity (l/h)
P = counterpressure (bar)
Q2 = intake quantity (l/h) (air)

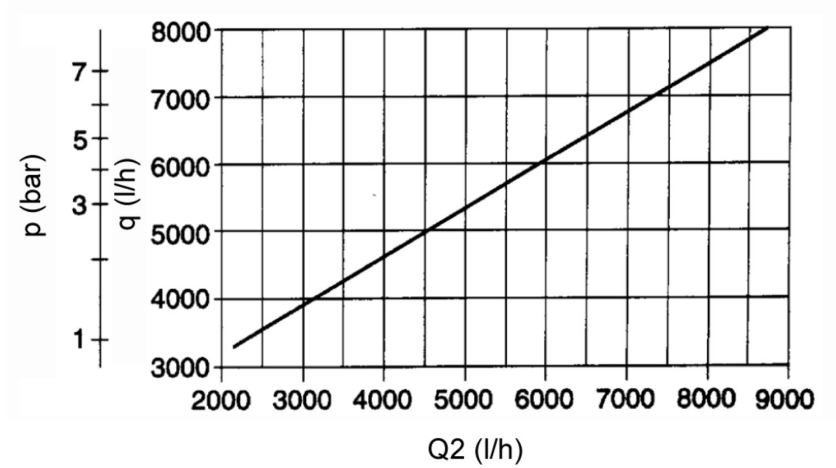
DN 50, nozzle bore 7,0 mm, intake medium water



p = propulsion water pressure (bar)
q = propulsion water quantity (l/h)
P = counterpressure (bar)
Q1 = intake quantity (l/h) (water)

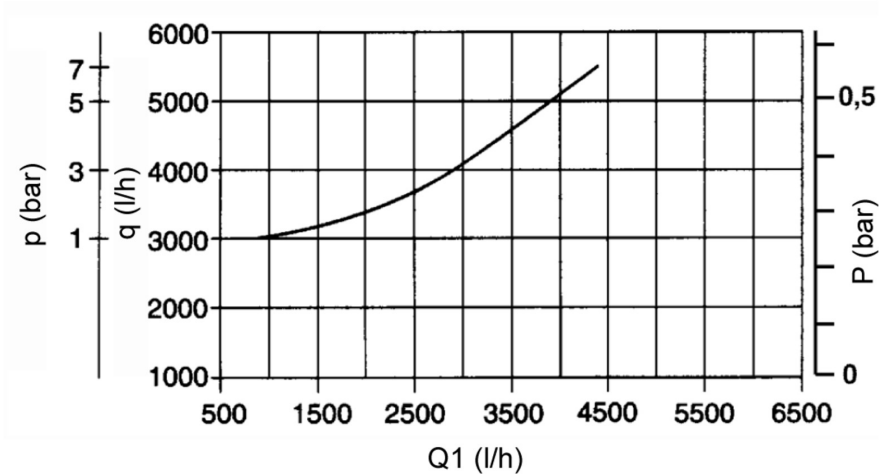
SP 820 Water jet pump

DN 50, nozzle bore 9,0 mm; intake medium air



- p** = propulsion water pressure (bar)
- q** = propulsion water quantity (l/h)
- P** = counterpressure (bar)
- Q2** = intake quantity (l/h) (air)

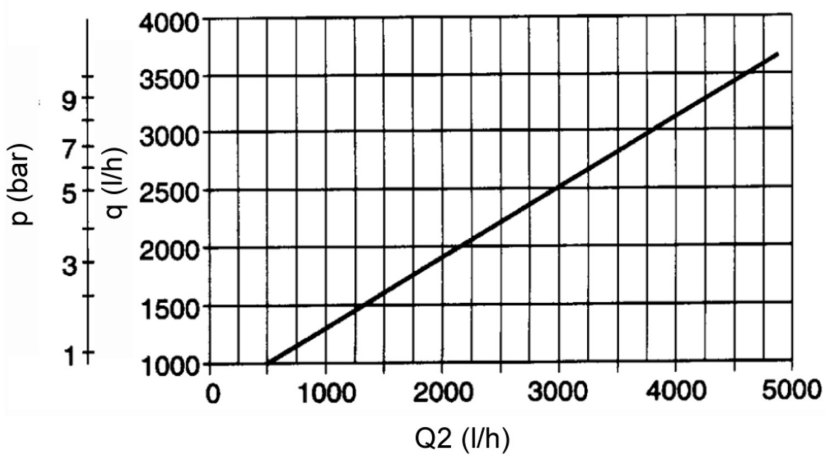
DN 50, nozzle bore 9,0 mm, intake medium water



- p** = propulsion water pressure (bar)
- q** = propulsion water quantity (l/h)
- P** = counterpressure (bar)
- Q1** = intake quantity (l/h) (water)

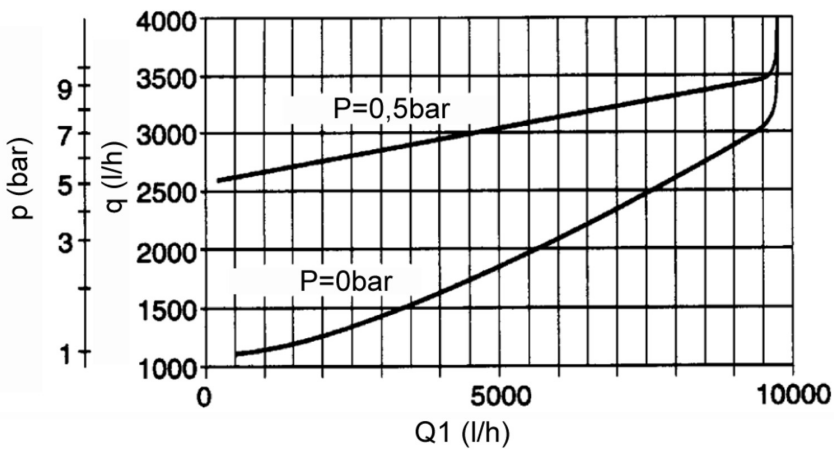
SP 820 Water jet pump

DN 65, nozzle bore 6,5 mm, intake medium air



p = propulsion water pressure (bar)
q = propulsion water quantity (l/h)
P = counterpressure (bar)
Q2 = intake quantity (l/h) (air)

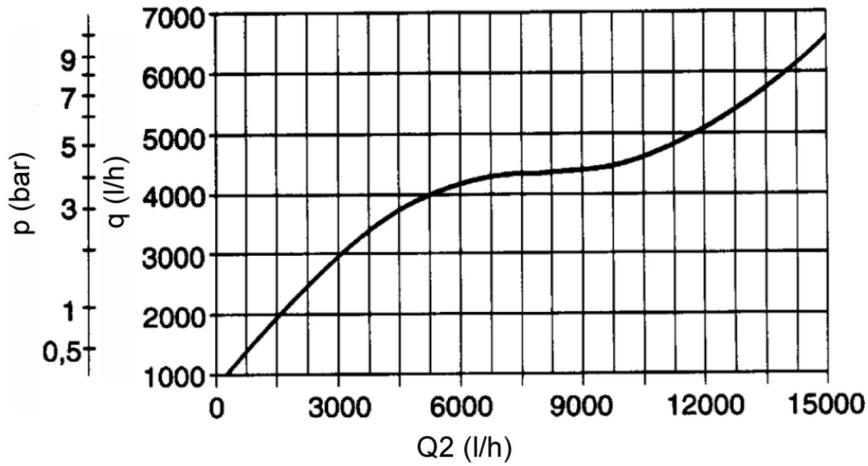
DN 65, nozzle bore 6,5 mm; intake medium water



p = propulsion water pressure (bar)
q = propulsion water quantity (l/h)
P = counterpressure (bar)
Q1 = intake quantity (l/h) (water)

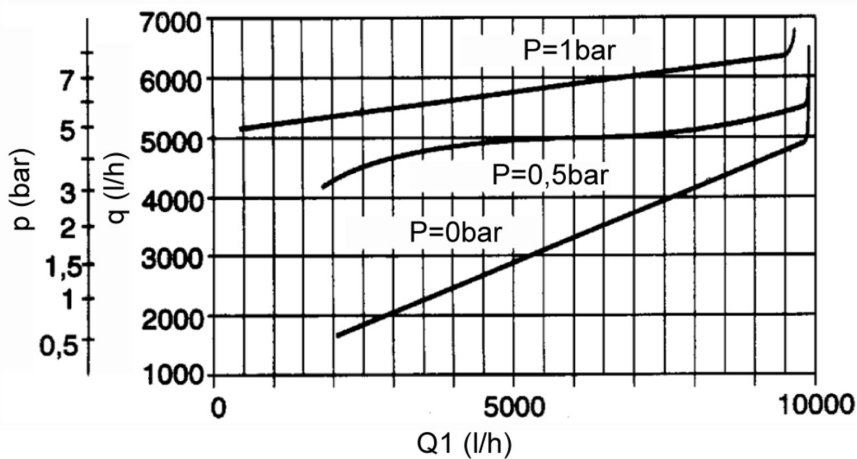
SP 820 Water jet pump

DN 65, nozzle bore 9,0 mm, Intake medium air



p = propulsion water pressure (bar)
q = propulsion water quantity (l/h)
P = counterpressure (bar)
Q2 = intake quantity (l/h) (air)

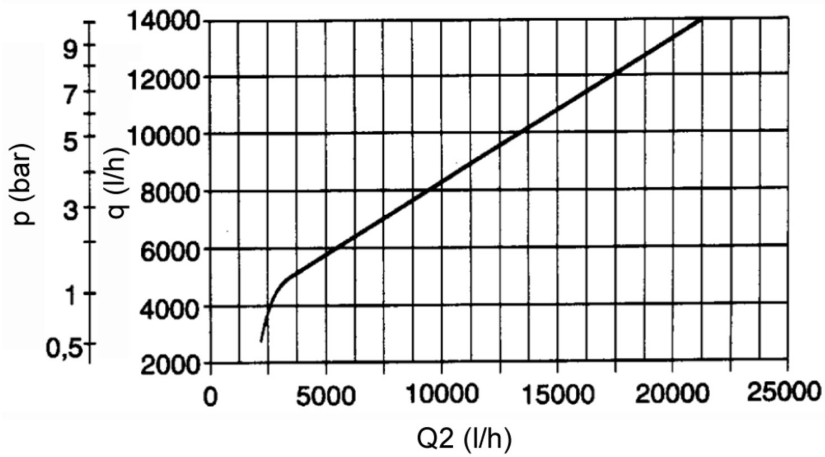
DN 65, nozzle bore 9,0 mm, Intake medium water



p = propulsion water pressure (bar)
q = propulsion water quantity (l/h)
P = counterpressure (bar)
Q1 = intake quantity (l/h) (water)

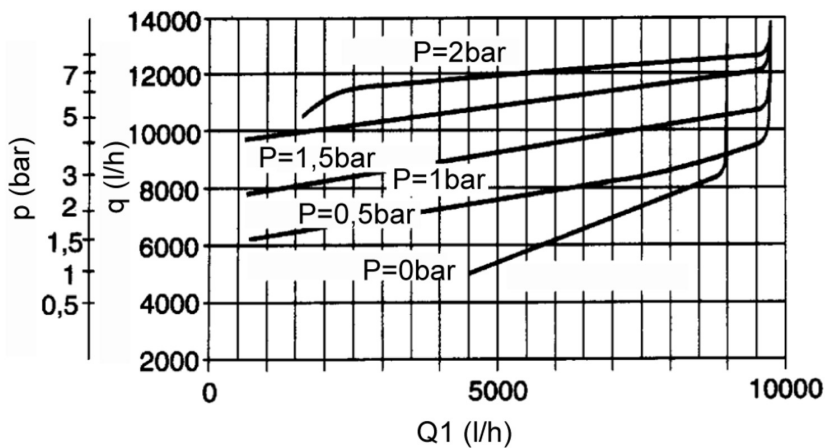
SP 820 Water jet pump

DN 65, nozzle bore 11,5 mm, intake medium air



p = propulsion water pressure (bar)
q = propulsion water quantity (l/h)
P = counterpressure (bar)
Q2 = intake quantity (l/h) (air)

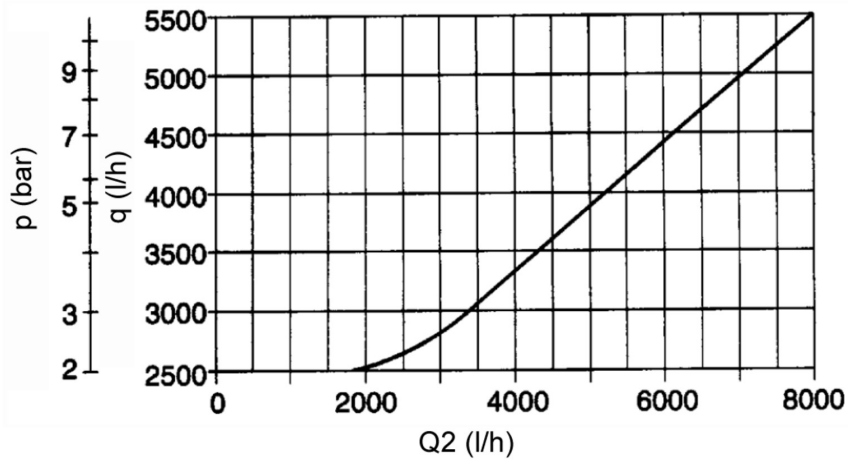
DN 65, nozzle bore 11,5 mm, intake medium water



p = propulsion water pressure (bar)
q = propulsion water quantity (l/h)
P = counterpressure (bar)
Q1 = intake quantity (l/h) (water)

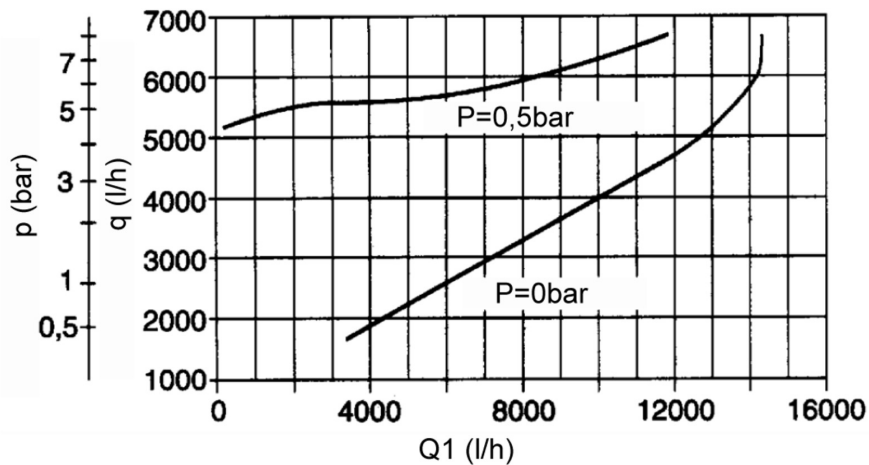
SP 820 Water jet pump

SP 820, DN 80, nozzle bore 8,0 mm; intake medium air



p = propulsion water pressure (bar)
q = propulsion water quantity (l/h)
P = counterpressure (bar)
Q2 = intake quantity (l/h) (air)

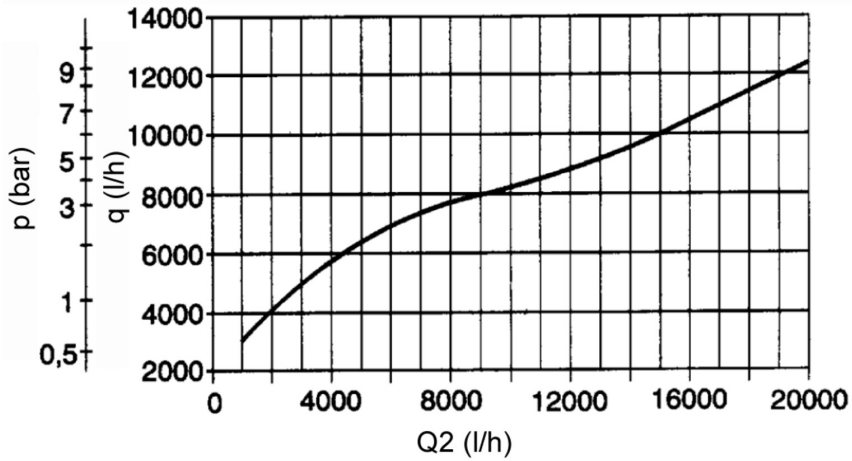
DN 80, nozzle bore 8,0 mm, intake medium water



p = propulsion water pressure (bar)
q = propulsion water quantity (l/h)
P = counterpressure (bar)
Q1 = intake quantity (l/h) (water)

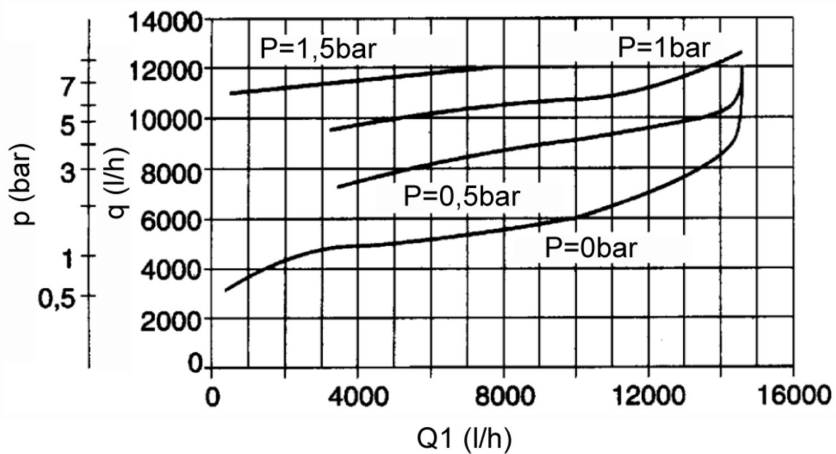
SP 820 Water jet pump

DN 80 nozzle bore 11,0 mm, intake medium air



- p** = propulsion water pressure (bar)
- q** = propulsion water quantity (l/h)
- P** = counterpressure (bar)
- Q2** = intake quantity (l/h) (air)

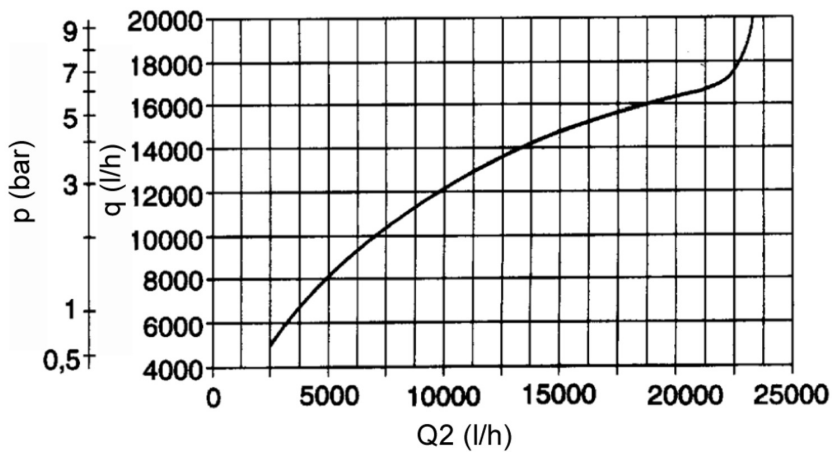
DN 80, nozzle bore 11,0 mm, intake medium water



- p** = propulsion water pressure (bar)
- q** = propulsion water quantity (l/h)
- P** = counterpressure (bar)
- Q1** = intake quantity (l/h) (water)

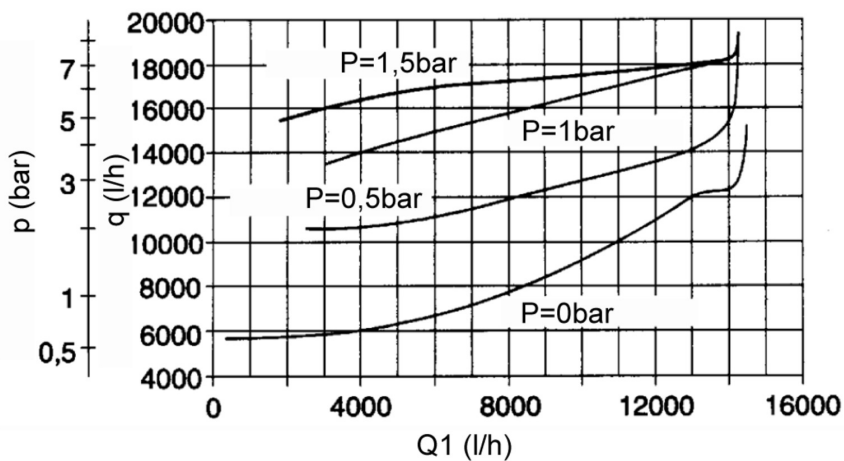
SP 820 Water jet pump

SP 820, DN 80, nozzle bore 14,0 mm; intake medium water



p = propulsion water pressure (bar)
q = propulsion water quantity (l/h)
P = counterpressure (bar)
Q2 = intake quantity (l/h) (air)

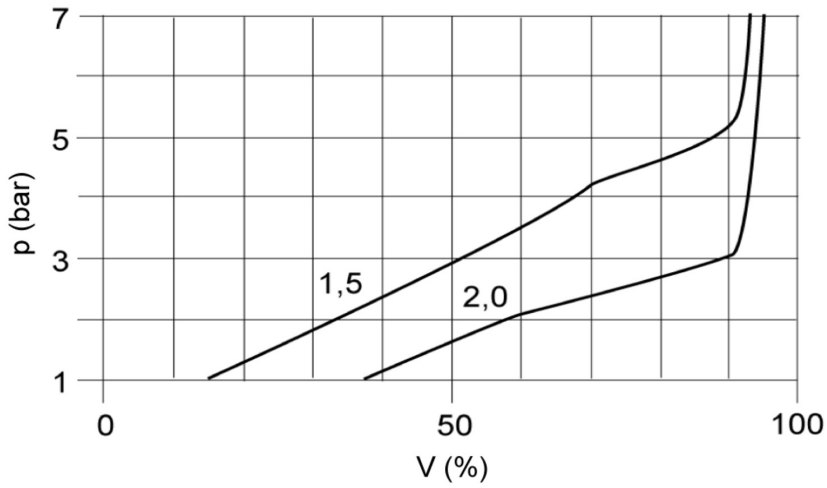
DN 80, nozzle bore 14,0 mm, intake medium water



p = propulsion water pressure (bar)
q = propulsion water quantity (l/h)
P = counterpressure (bar)
Q1 = intake quantity (l/h) (water)

SP 820 Water jet pump

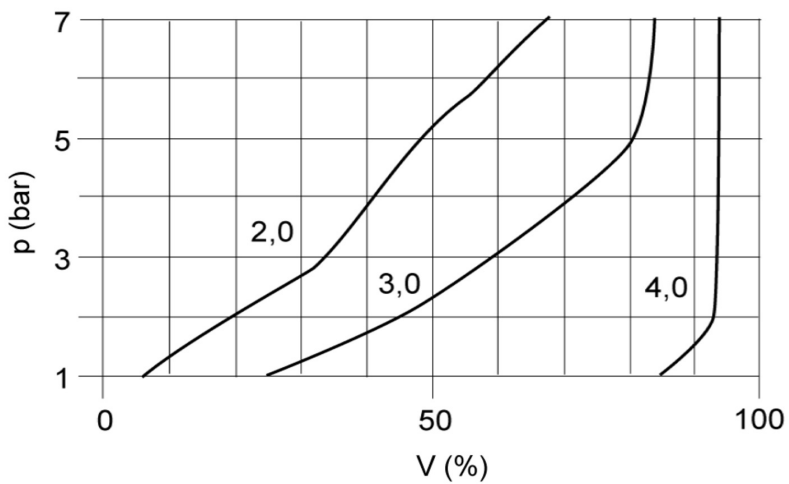
DN 10, nozzle bore 1,5; 2,0, max. attainable vacuum



p = Propulsion water pressure (bar)

V = Vakuum (%)

DN 15, nozzle bore 2,0; 3,0; 4,0 max. attainable vacuum

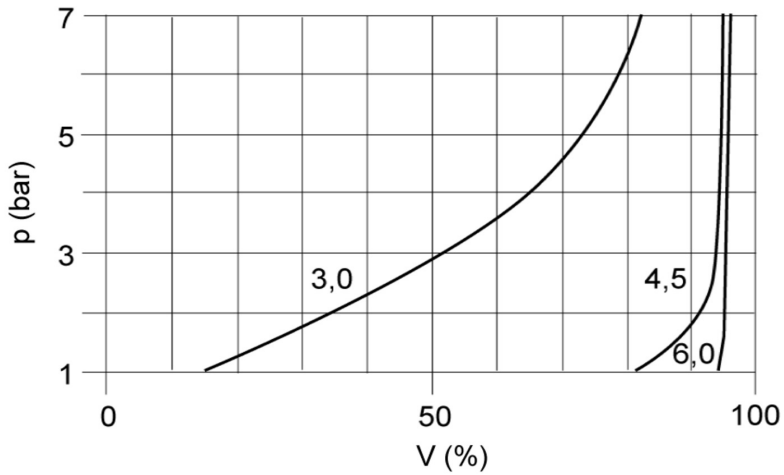


p = Propulsion water pressure (bar)

V = Vakuum (%)

SP 820 Water jet pump

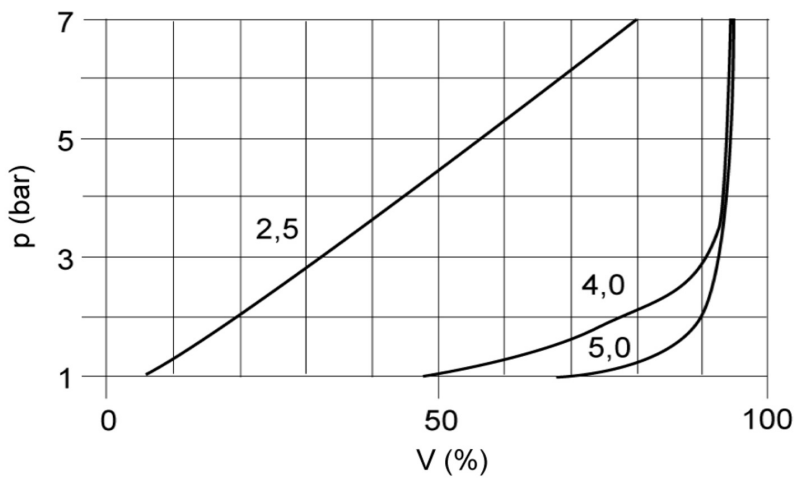
DN 20, nozzle bore 3,0; 4,5; 6,0, max. attainable vacuum



p = Propulsion water pressure (bar)

V = Vakuum (%)

DN 25, nozzle bore 2,5; 4,0; 5,0, max. attainable vacuum

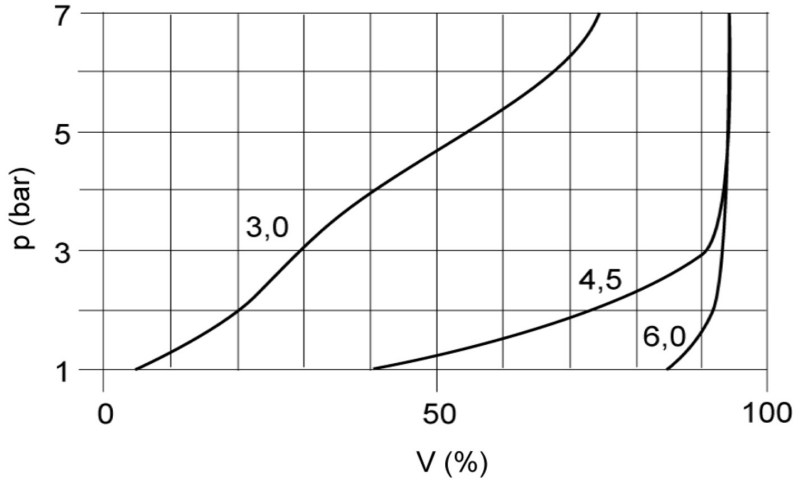


p = Propulsion water pressure (bar)

V = Vakuum (%)

SP 820 Water jet pump

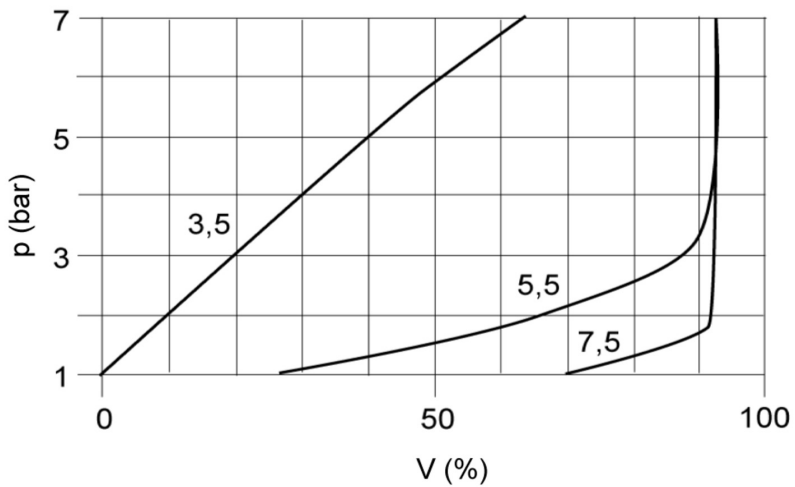
DN 32, nozzle bore 3,0; 4,5; 6,0, max. attainable vacuum



p = Propulsion water pressure (bar)

V = Vakuum (%)

DN 40, nozzle bore 3,5; 5,5; 7,5, max. attainable vacuum

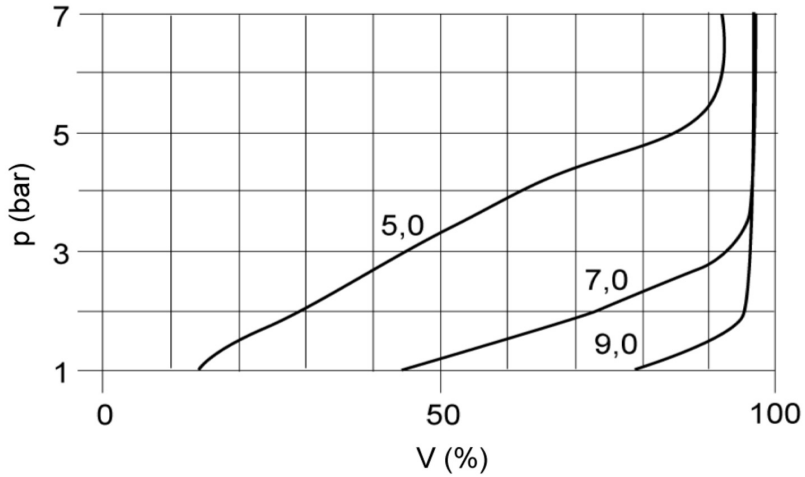


p = Propulsion water pressure (bar)

V = Vakuum (%)

SP 820 Water jet pump

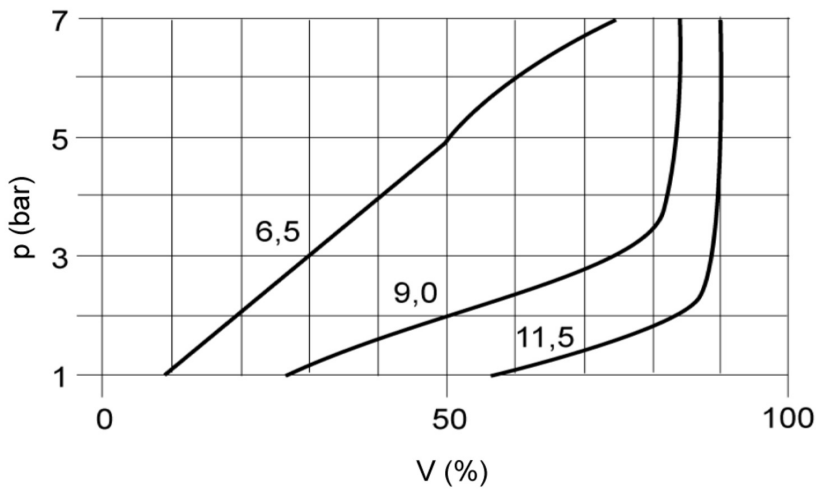
DN 50, nozzle bore 5,0; 7,0; 9,0, max. attainable vacuum



p = Propulsion water pressure (bar)

V = Vakuum (%)

DN 65, nozzle bore 6,5; 9,0; 11,5, max. attainable vacuum

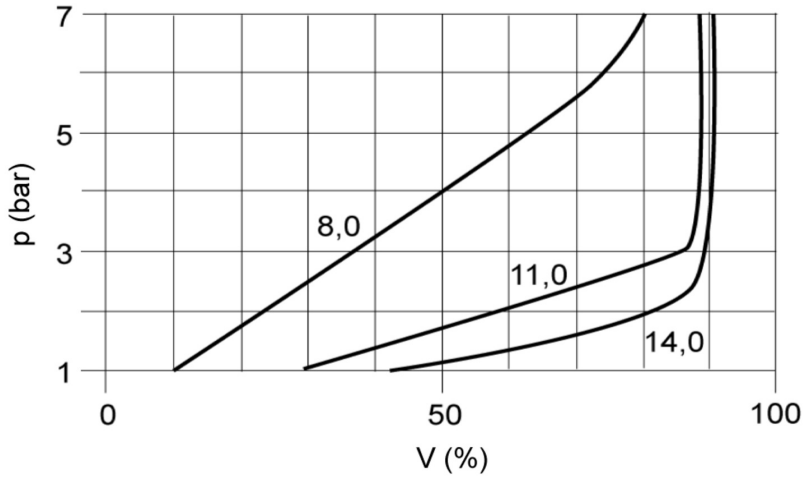


p = Propulsion water pressure (bar)

V = Vakuum (%)

SP 820 Water jet pump

DN 80, nozzle bore 8,0; 11,0; 14,0, max. attainable vacuum



p = Propulsion water pressure (bar)

V = Vakuum (%)