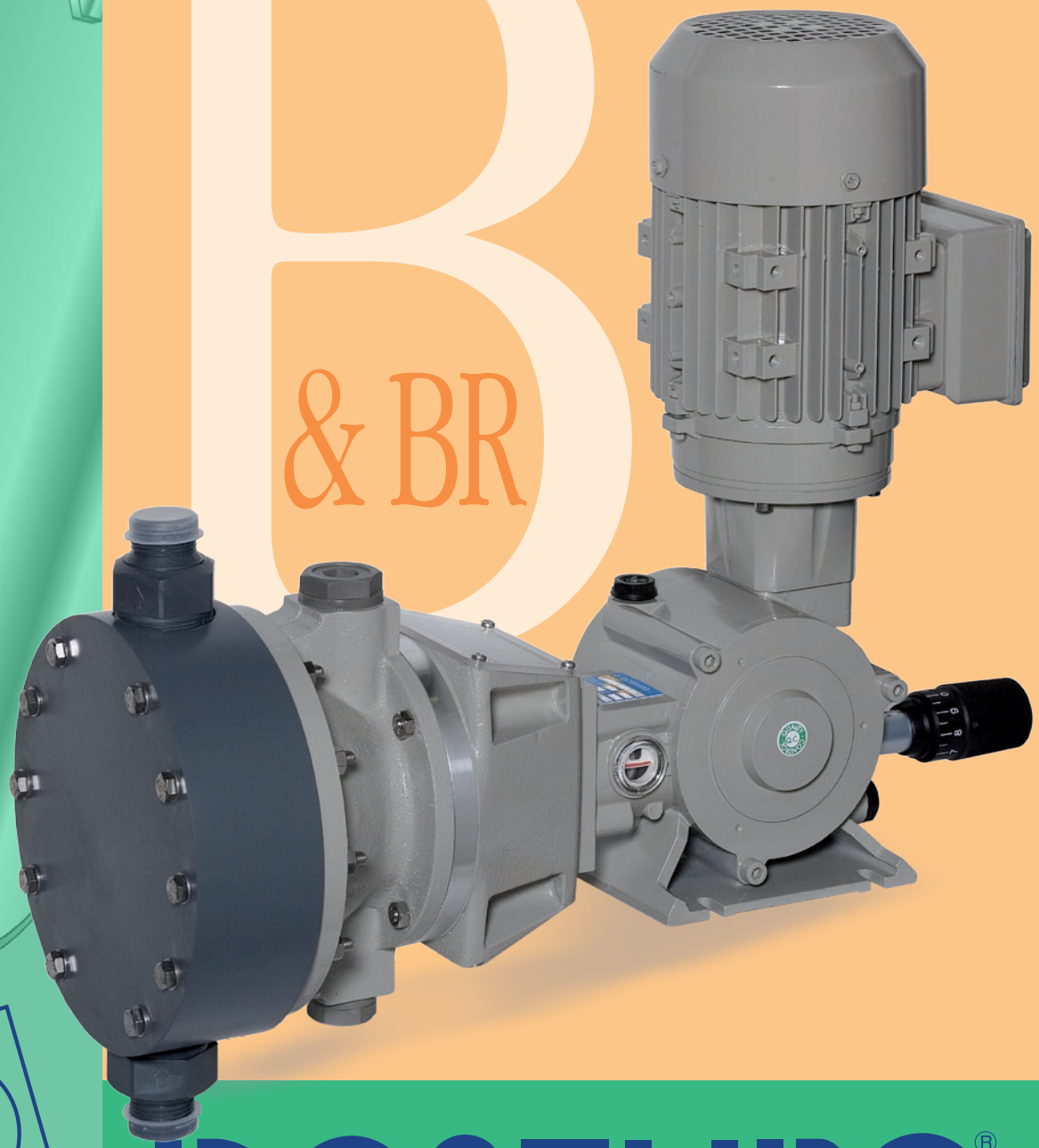
SR series

Spring Return dosing pumps

B - hydraulic diaphragm type

BR - hydraulic diaphragm type with an internal relief - refilling valve

B & BR



DOSEURO®

The right dosing choice

SR series

MAIN ELEMENTS TO SUPPORT OUR PRODUCTS

Versatility

Different diaphragm sizes are available to suit different applications, starting from 1,5 up to 1068 l/h.

Reliability

The high degree of accuracy and reproducibility with high quality materials selected make the diaphragm pump SR series to assure the maximum reliability.

Quality

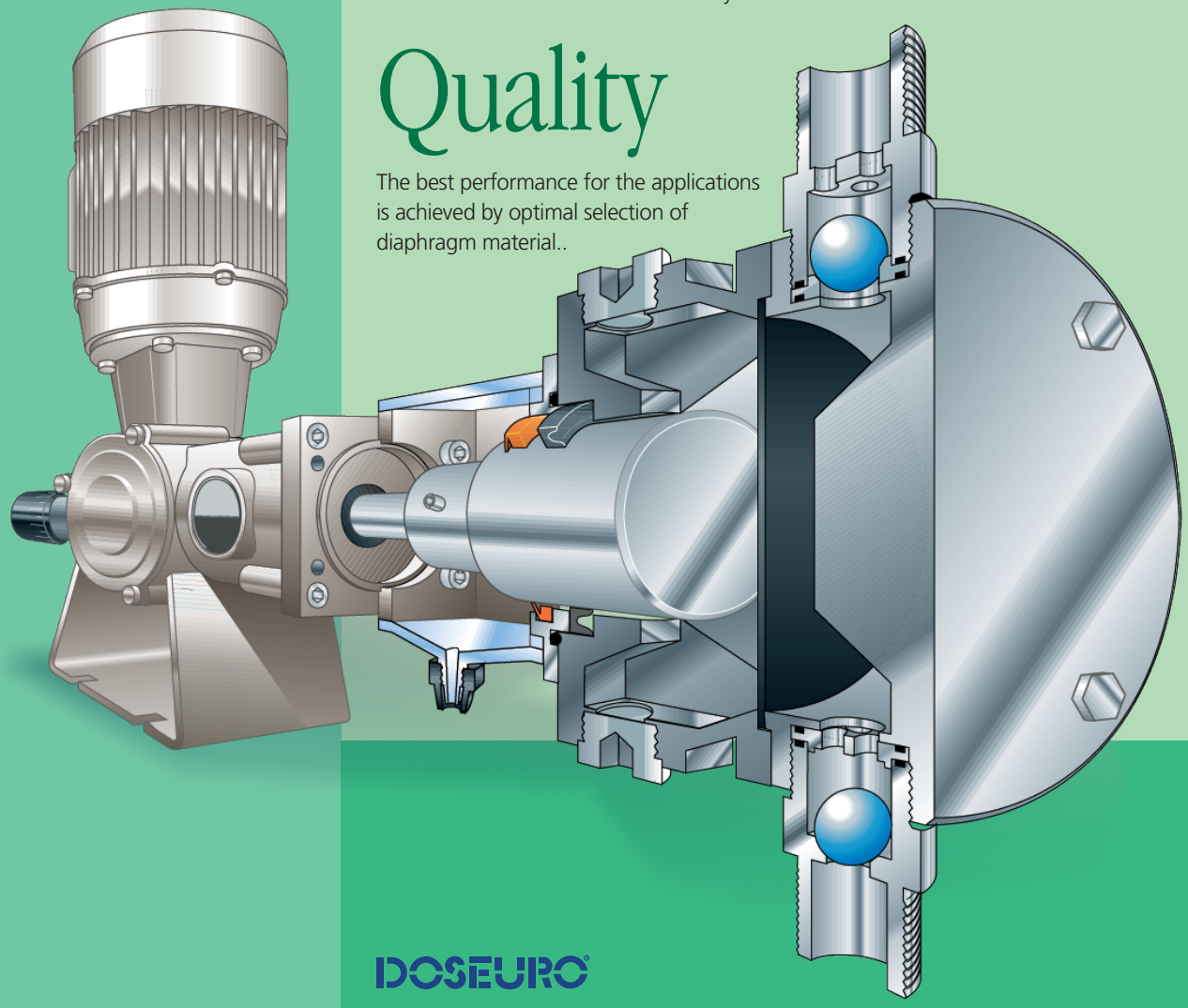
The best performance for the applications is achieved by optimal selection of diaphragm material..

FEATURES

Hydraulic Diaphragm metering pumps are suitable for use when the dosed liquid is of abrasive type with small amounts of solids in suspension or is a toxic solution.

Every pump is fitted a standard gearbox reduction system and with vertical mounted B14 shaped electric motor in accordance with the UNEL-MEC specifications.

The motor power range is from 0.18 Kw up to 0.75 Kw a the at European standard: 3 phase voltages of 230/400V @ 50/60Hz, 4 poles and 1 phase voltages of 230/50-60Hz or 110/60Hz.



DOSEURO®

Hydraulic Diaphragm Dosing Pump

B and BR Type

As motors conform to UNEL-MEC specifications, there are many alternative options available, including different voltages, insulation class and special explosion proof versions.

The gearbox is a standard wormwheel reduction system with all bearings supported within a fully lubricated gearbox.

The mechanism for variation of the stroke length is a positive stroke spring return that is operated by an eccentric.

PUMPING HEADS

Pumping heads are made in standard executions: S.S.316 or PVC.

A wide range of other materials like HASTELLOY, ALLOY, PTFE, PVDF, PP are according to the liquid to be dosed.

Standard liquid handled maximum temperature :
-60 ° C with S.S. 316 pump head
-40 ° C with PVC pump head

Jacketed pump head for either cooling and heating are available to suit requirements.

DIAPHRAGM

There are made in PTFE/NBR.

SUCTION AND DISCHARGE CONNECTIONS

Normally are threaded, but they can be supplied also UNI or ANSI flanged.
All the pumps have a ball valve standard: single and double balls by the function of the piston diameter or the material execution.

STROKE ADJUSTMENT

Stroke adjustment can be carried out:
- Manual: by a linear micrometer screw.
- Electrical: via servo motor with 4-20 mA signal upon request interface PROFIBUS or other BUS.
- Pneumatic: by a pneumatic servo control with signal from 3 to 15 PSI.

Flow rate adjustment is possible while running or standstill.

MULTIPLE HEADED PUMPS

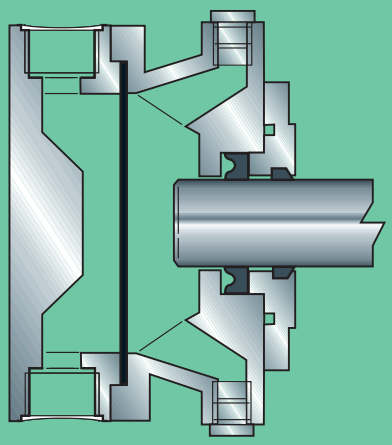
Different multiple heads units are available on request.
Each pumping element has independent adjustment while running or at standstill.

"B" AND "BR" SERIES HYDRAULIC DIAPHRAGM PUMPS ARE AVAILABLE IN DIFFERENT SIZES:

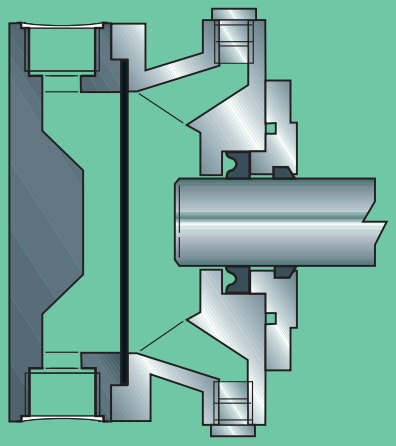
- B 125N / BR 125N
  Stroke length 12.5 mm
- B 175N / BR 175N
  Stroke length 17.5 mm
- B 250N / BR 250N
  Stroke length 25 mm

For these three types, different diaphragm sizes are available to suit different applications for capacity and pressure.

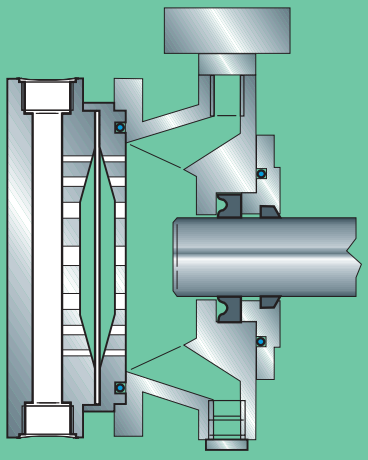
Execution 41



Execution 43



Execution 41 for BR pump



DOSEURO

SR series

SOME STANDARD EXECUTIONS FOR HYDRAULIC DIAPHRAGM PUMPS

EXECUT.	PUMPHEAD	PISTON	VALVE (ball)	VALVE SEAT	DIAPHRAGM	VALVE GASKETS
29	PP	S.S. 420 TEMP.	PYREX	PP	PTFE/NBR	T20
41	S.S. 316	S.S. 420 TEMP.	S.S. 316	S.S. 316	PTFE/NBR	T20
43	PVC	S.S. 420 TEMP.	PYREX	PVC	PTFE/NBR	T20

PP = Polypropiyene
S.S. 316 = Stainless steel 316
S.S. 420 TEMP. = Tempered stainless steel 420
T20 = Polyurethane rubber

Different executions on request

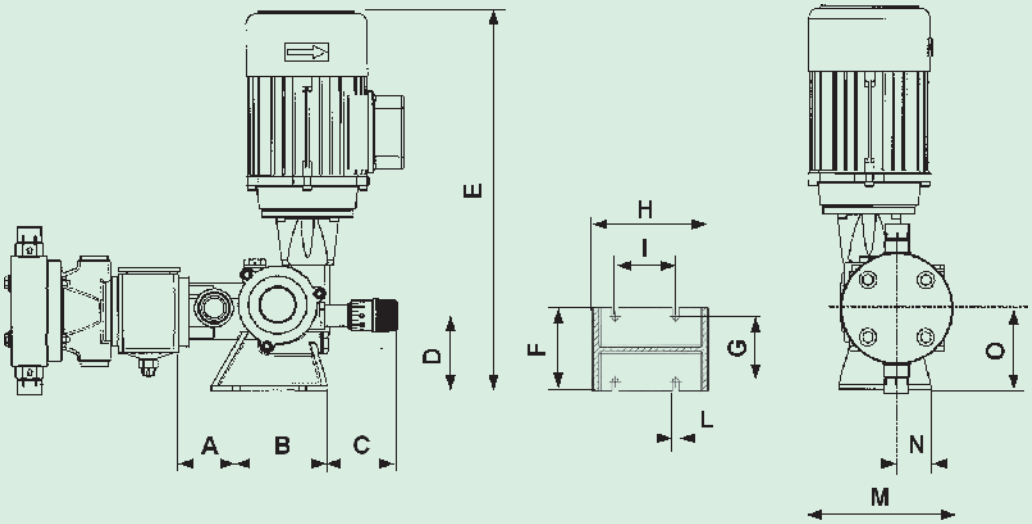
Glossary and numbering system to identify pumps type

B	125N	30	B	41	DV
1st group	2nd group	3rd group	1th group	1th group	1th group
"B" series Hydraulic diaphragm dosing pump	Stroke length	Diaphragm diameter in mm	Reduction ratio group (n° of strokes/min) 58=F(1/24) 116=B (1/12)	Materials in touch with the fluid	Not standard-special code

In case of pumps supplied without motor add: W/M

OVERALL DIMENSIONS

	125	175	250
A	57	68	75
B	90	100	127
C	70	70	120
D	75	73	70
E	375	410	450
F	90	90	154
G	75	75	130
H	115	125	157
I	65	65	102
L	7	7	9
M	130	170	194
N	33	33	60
O	80	78	78



General dimensional quote are indicative and adverted to the maximum acceptable pump dimension

DOSEURO

Spring Return Hydraulic Diaphragm Dosing Pumps

Type B 125N

TECHNICAL FATURES

Pump type	Reducer ratio			Capacity (*2)				Max Press. Kg/cm² (*3)				Connect. (*4)	Motor features	ø mm	ø mm	Stroke lenght	Net weights Kg (*5)	
	(*1)	SPM (*1)		L/1'		L/h		SS 316		PVC		SS 316 or PVC		Real piston	Diaphrag.		SS 316	PVC
		50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	0,18 kW	0,25 kW	0,18 kW	0,25 kW							
B-125N-8	F	58	70	0,025	0,030	1,5	1,8	20 *	-	10	-	1/2" G.m.	0.18 kW or 0.25 kW 3 Ph or 1 Ph ~1400 rpm	8	50	12.5 mm	9,5	8
	C	96	116	0,040	0,050	2,4	3											
	B	116		0,050		3												
B-125N-12	I	35	42	0,045	0,054	2,7	3,2	20 *	-					12			9,5	8
	F	58	70	0,075	0,090	4,5	5,4											
	C	96	116	0,123	0,150	7,4	9											
	B	116		0,150		9												
B-125N-18	I	35	42	0,110	0,132	6,6	7,9	20 *	-					18	70		10	9,5
	F	58	70	0,183	0,220	11	13,2											
	C	96	116	0,300	0,366	18	22											
	B	116		0,366		22												
B-125N-25	I	35	42	0,211	0,252	12,6	15,1	20 *	-					25			10	9,5
	F	58	70	0,350	0,420	21	25,2											
	C	96	116	0,566	0,700	34	42											
	B	116		0,700		42												
B-125N-30	I	35	42	0,301	0,360	18	21,6	14	20 *					30			10	9,5
	F	58	70	0,500	0,600	30	36											
	C	96	116	0,816	1,000	49	60											
	B	116		1,000		60												
B-125N-40	I	35	42	0,543	0,650	32,5	39	8	13,2	8	10			40	90		11	11
	F	58	70	0,900	1,080	54	65											
	C	96	116	1,483	1,800	89	108											
	B	116		1,800		108												

(*1) Piston's strokes number during 1 minute with 4 poles installed motor (~1400 rpm)
I = Reducer ratio 1 : 40 = 35 strokes at 60 Hz / 42 strokes at 60 Hz
F = Reducer ratio 1 : 24 = 58 strokes at 50 Hz / 70 strokes at 60 Hz
C = Reducer ratio 1 : 14,5 = 96 strokes at 50 Hz / 116 strokes at 60 Hz
B = Reducer ratio 1 : 12 = 116 strokes at 50 Hz / not suitable
(*2) The indicated capacity value is subject to changes due to the working pressure, the dosed liquid, the viscosity and the installation asset.
(*3) For higher pressure please contact our sales departement.
(*4) Different ranges of connections are available on request
(*5) The weight is approximate and is the value of the pump fitted with a totally enclosed fan- cooled outdoor motor.
(*6) The pumps can be supplied with accessories if requested.
(*7) The pumps are epoxy painted RAL 7030

DOSEURO®

SR series

Type B 175N

TECHNICAL FATURES

Pump type	Reducer ratio			Capacity (*2)				Max Press. Kg/cm² (*3)				Connect. (*4)	Motor features	ø mm	ø mm	Stroke lenght	Net weights Kg (*5)	
	(*1)	SPM (*1)		L/1'		L/h		SS 316		PVC		SS 316 or PVC		Real piston	Diaphrag.		SS 316	PVC
		50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	0,25 kW	0,37 kW	0,25 kW	0,37 kW							
B-175N-8	F	70	84	0,043	0,052	2,6	3,12	20 *	-	10		1/2" G.m.	0.25 kW or 0.37 kW 3 Ph or 1 Ph ~1400 rpm	8	50	17.5 mm	11,5	11
	C	96	116	0,058	0,070	3,5	4,2											
	B	120		0,073		4,4												
B-175N-12	F	70	84	0,126	0,152	7,6	9,12	20 *	-					12			12	11,5
	C	96	116	0,173	0,206	10,4	12,4											
	B	120		0,216		13												
B-175N-18	F	70	84	0,300	0,360	18	21,6	20 *	-					18	70		12	11,5
	C	96	116	0,400	0,480	24	28,8											
	B	120		0,533		32												
B-175N-25	F	70	84	0,600	0,720	36	43,2	20 *	-					25			12,5	12
	C	96	116	0,816	0,980	49	58,8											
	B	120		1,016		61												
B-175N-30	F	70	84	0,850	1,020	51	61,2	20 *	-					30			12,5	12
	C	96	116	1,150	1,380	69	82,8											
	B	120		1,466		88												
B-175N-40	F	70	84	1,533	1,840	92	110,4	12	20					40	90		13,5	12
	C	96	116	2,100	2,52	126	151,2											
	B	120		2,630		158												
B-175N-50	F	70	84	2,400	2,880	144	172,8	7,5	11	7,5	10	3/4" G.m.		50	120		16	15
	C	96	116	3,283	3,940	197	236,4											
	B	120		4,116		247												
B-175N-55	F	70	84	2,900	3,480	174	208,8	6,3	11	6,3	10			55			16	15
	C	96	116	3,966	4,760	238	285,6											
	B	120		4,983		299												
B-175N-65	F	70	84	4,050	4,860	243	291,6	4,5	7,8	4,5	7,8			65			16	15
	C	96	116	5,550	6,660	333	399,6											
	B	120		6,960		418												

(*1) Piston's strokes number during 1 minute with 4 poles installed motor (~1400 rpm 1')
F = Reducer ratio 1 : 20 = 70 strokes at 50 Hz / 84 strokes at 60 Hz
C = Reducer ratio 1 : 14,5 = 96 strokes at 50 Hz / 116 strokes at 60 Hz
B = Reducer ratio 1 : 11,5 = 120 strokes at 50 Hz / not suitable

(*2) The indicated capacity value is subject to changes due to the working pressure, the dosed liquid, the viscosity and the installation asset.

(*3) For higher pressure please contact our sales departement

(*4) Different ranges of connections are available on request

(*5) The weight is approximate and is the value of the pump fitted with a totally enclosed fan- cooled outdoor motor.

(*6) The pumps can be supplied with acessories if requested

(*7) The pumps are epoxy painted RAL 7030

DOSEURO®

Spring Return Hydraulic Diaphragm Dosing Pumps

Type B 250N

TECHNICAL FATURES

Pump type	Reducer ratio			Capacity (*2)				Max Press. Kg/cm² (*3)				Connect. (*4)	Motor features	ø mm	ø mm	Stroke lenght	Net weights Kg (*5)	
	(*1)	SPM (*1)		L/1'		L/h		SS 316		PVC		SS 316 or PVC		Real piston	Diaphrag.		SS 316	PVC
		50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	0,55 kW	0,75 kW	0,55 kW	0,75 kW							
B-250N-40	F	56	67	1,75	2,10	105	126	11 *	-	10	-	3/4" G.m.	0.55 kW or 0.75 kW 3 Ph or 1 Ph ~1400 rpm	40	120	25 mm	26	23
	C	96	116	3,00	3,60	180	216											
	B	112		3,50		210												
B-250N-50	F	56	67	2,75	3,30	165	198	11 *	-	10	-			50			26	23
	C	96	116	4,70	5,63	282	338											
	B	112		5,50		330												
B-250N-55	F	56	67	3,33	4,00	200	240	11 *	-	10	-			55			26	23
	C	96	116	5,70	6,83	342	410											
	B	112		6,66		400												
B-250N-65	F	56	67	4,63	5,56	278	333,6	9 *	-	9	-	1" G.m.		65	160		37	26
	C	96	116	7,93	9,52	476	571,2											
	B	112		9,26		556												
B-250N-75	F	56	67	6,18	7,42	371	445,2	6,6	8,7	6,6	8,7			75			37	26
	C	96	116	10,60	12,72	636	763,2											
	B	112		12,36		742												
B-250N-90	F	56	67	8,90	10,68	534	640,8	4,7	6,2	4,7	6,2			90			37	26
	C	96	116	15,25	18,30	915	1098											
	B	112		17,80		1068												

(*1) Piston's strokes number during 1 minute with 4 poles installed motor (~1400 rpm 1')
F = Reducer ratio 1 : 25 = 56 strokes at 50 Hz / 67 strokes at 60 Hz
C = Reducer ratio 1 : 14,5 = 96 strokes at 50 Hz / 116 strokes at 60 Hz
B = Reducer ratio 1 : 12.5 = 112 strokes at 50 Hz / not suitable
(*2) The indicated capacity value is subject to changes due to the working pressure, the dosed liquid, the viscosity and the installation asset.
(*3) For higher pressure please contact our sales departement.
(*4) Different ranges of connections are available on request
(*5) The weight is approximate and is the value of the pump fitted with a totally enclosed fan- cooled outdoor motor.
(*6) The pumps can be supplied with acessories if requested
(*7) The pumps are epoxy painted RAL 7030

DOSEURO®

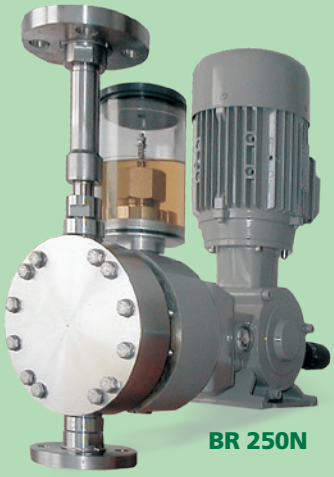
SR series

Type BR 125N

Pump type	Reducer ratio (*1)	SPM (*1)		Capacity (*2) L/1'		L/h		Max Press. Kg/cm² (*3) SS 316		PVC		Connect. (*4) SS 316 or PVC	Motor features	ø mm Real piston	ø mm Diaphrag.	Stroke lenght	Net weights Kg (*5) SS 316	PVC
		50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	0,18 kW	0,25 kW	0,18 kW	0,25 kW							
BR-125N-8	F	58	70	0,025	0,030	1,5	1,8	13,5 *	-	7	-	1/2" G.m.	0.18 kW or 0.25 kW 3 Ph or 1 Ph ~1400 rpm	8	50	12.5 mm	10,5	9
	C	96	116	0,040	0,050	2,4	3											
	B	116		0,050		3												
BR-125N-12	I	35	42	0,045	0,054	2,7	3,2	13,5 *	-	7	-			12			10,5	9
	F	58	70	0,075	0,090	4,5	5,4											
	C	96	116	0,123	0,150	7,4	9											
	B	116		0,150		9												
BR-125N-18	I	35	42	0,110	0,132	6,6	7,9	13,5 *	-	7	-			18	70		11	10,5
	F	58	70	0,183	0,220	11	13,2											
	C	96	116	0,300	0,366	18	22											
	B	116		0,366		22												
BR-125N-25	I	35	42	0,211	0,252	12,6	15,1	13,5 *	-	7	-			25			11	10,5
	F	58	70	0,350	0,420	21	25,2											
	C	96	116	0,566	0,700	34	42											
	B	116		0,700		42												
BR-125N-30	I	35	42	0,301	0,360	18	21,6	9	13,5 *	7	-			30			11	10,5
	F	58	70	0,500	0,600	30	36											
	C	96	116	0,816	1,000	49	60											
	B	116		1,000		60												
BR-125N-40	I	35	42	0,543	0,650	32,5	39	5	8,5	5	7			40	90		12	12
	F	58	70	0,900	1,080	54	65											
	C	96	116	1,483	1,800	89	108											
	B	116		1,800		108												

BR 125N

BR 175N



BR 250N

(*1) Numero di colpi effettuati al minuto dal pistone - motore a 4 poli. (~1400 giri 1')

BR 125N
I = Reducer ratio 1 : 40 = 35 strokes at 60 Hz / 42 strokes at 60 Hz
F = Reducer ratio 1 : 24 = 58 strokes at 50 Hz / 70 strokes at 60 Hz
C = Reducer ratio 1 : 14,5 = 96 strokes at 50 Hz / 116 strokes at 60 Hz
B = Reducer ratio 1 : 12 = 116 strokes at 50 Hz / not suitable

BR 175N
F = Reducer ratio 1 : 25 = 56 strokes at 50 Hz / 67 strokess60 Hz
C = Reducer ratio 1 : 14,5 = 96 strokes at 50 Hz / 116 strokes at 60 Hz
B = Reducer ratio 1 : 12,5 = 112 strokes at 50 Hz / not suitable

BR 250N
F = Reducer ratio 1 : 25 = 56 strokes at 50 Hz / 67 strokes at 60 Hz
C = Reducer ratio 1 : 14,5 = 96 strokes at 50 Hz / 116 strokes at 60 Hz
B = Reducer ratio 1 : 12.5 = 112 strokes at 50 Hz / not suitable

(*2) The indicated capacity value is subject to changes due to the working pressure, the dosed liquid, the viscosity and the installation asset.
(*3) For higher pressure please contact our sales departement.
(*4) Different ranges of connections are available on request
(*5) The weight is approximate and is the value of the pump fitted with a totally enclosed fan- cooled outdoor motor.
(*6) The pumps can be supplied with acessories if requested
(*7) The pumps are epoxy painted RAL 7030

DOSEURO®

Spring Return Hydraulic Diaphragm Dosing Pumps

Type BR 175N

Pump type	Reducer ratio			Capacity (*2)				Max Press. Kg/cm² (*3)				Connect. (*4)	Motor features	ø mm	ø mm	Stroke lenght	Net weights Kg (*5)	
	(*1)	SPM (*1)		L/1′		L/h		SS 316		PVC		SS 316 or PVC		Real piston	Diaphrag.		SS 316	PVC
		50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	0,25 kW	0,37 kW	0,25 kW	0,37 kW							
BR-175N-8	F	70	84	0,043	0,052	2,6	3,12	14	*	7	-	1/2″ G.m.	0.25 kW or 0.37 kW 3 Ph or 1 Ph ~1400 rpm	8	50	17.5 mm	12,5	12
	C	96	116	0,058	0,070	3,5	4,2											
	B	120		0,073		4,4												
BR-175N-12	F	70	84	0,126	0,152	7,6	9,12	14	*	7	-			12			13	12,5
	C	96	116	0,173	0,206	10,4	12,4											
	B	120		0,216		13												
BR-175N-18	F	70	84	0,300	0,360	18	21,6	14	*	7	-			18	70		13	12,5
	C	96	116	0,400	0,480	24	28,8											
	B	120		0,533		32												
BR-175N-25	F	70	84	0,600	0,720	36	43,2	14	*	7	-			25			13,5	13
	C	96	116	0,816	0,980	49	58,8											
	B	120		1,016		61												
BR-175N-30	F	70	84	0,850	1,020	51	61,2	14	*	7	-			30			13,5	13
	C	96	116	1,150	1,380	69	82,8											
	B	120		1,466		88												
BR-175N-40	F	70	84	1,533	1,840	92	110,4	9	13	7	-			40	90		14,5	13
	C	96	116	2,100	2,52	126	151,2											
	B	120		2,630		158												
BR-175N-50	F	70	84	2,400	2,880	144	172,8	5	7	5	7	3/4″ G.m.		50	120		17	16
	C	96	116	3,283	3,940	197	236,4											
	B	120		4,116		247												
BR-175N-55	F	70	84	2,900	3,480	174	208,8	4	7	4	7			55			17	16
	C	96	116	3,966	4,760	238	285,6											
	B	120		4,983		299												
BR-175N-65	F	70	84	4,050	4,860	243	291,6	3	5	3	5			65			17	16
	C	96	116	5,550	6,660	333	399,6											
	B	120		6,960		418												

Type BR 250N

Pump type	Reducer ratio			Capacity (*2)				Max Press. Kg/cm² (*3)				Connect. (*4)	Motor features	ø mm	ø mm	Stroke lenght	Net weights Kg (*5)	
	(*1)	SPM (*1)		L/1′		L/h		SS 316		PVC		SS 316 or PVC		Real piston	Diaphrag.		SS 316	PVC
		50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	0,55 kW	0,75 kW	0,55 kW	0,75 kW							
BR-250N-40	F	56	67	1,75	2,10	105	126	7,2 *	-	7	-	3/4″ G.m.	0.55 kW or 0.75 kW 3 Ph or 1 Ph ~1400 rpm	40	120	25 mm	27	24
	C	96	116	3,00	3,60	180	216											
	B	112		3,50		210												
BR-250N-50	F	56	67	2,75	3,30	165	198	7,2 *	-	7	-			50			27	24
	C	96	116	4,70	5,63	282	338											
	B	112		5,50		330												
BR-250N-55	F	56	67	3,33	4,00	200	240	7,2 *	-	7	-			55			27	24
	C	96	116	5,70	6,83	342	410											
	B	112		6,66		400												
BR-250N-65	F	56	67	4,63	5,56	278	333,6	5,9 *	-	5,9	-	1″ G.m.		65			38	27
	C	96	116	7,93	9,52	476	571,2											
	B	112		9,26		556												
BR-250N-75	F	56	67	6,18	7,42	371	445,2	4,3	5,7	4,3	5,7			75	160		38	27
	C	96	116	10,60	12,72	636	763,2											
	B	112		12,36		742												
BR-250N-90	F	56	67	8,90	10,68	534	640,8	3,1	4	3,1	4			90			38	27
	C	96	116	15,25	18,30	915	1098											
	B	112		17,80		1068												

Accessories

Safety relief valves

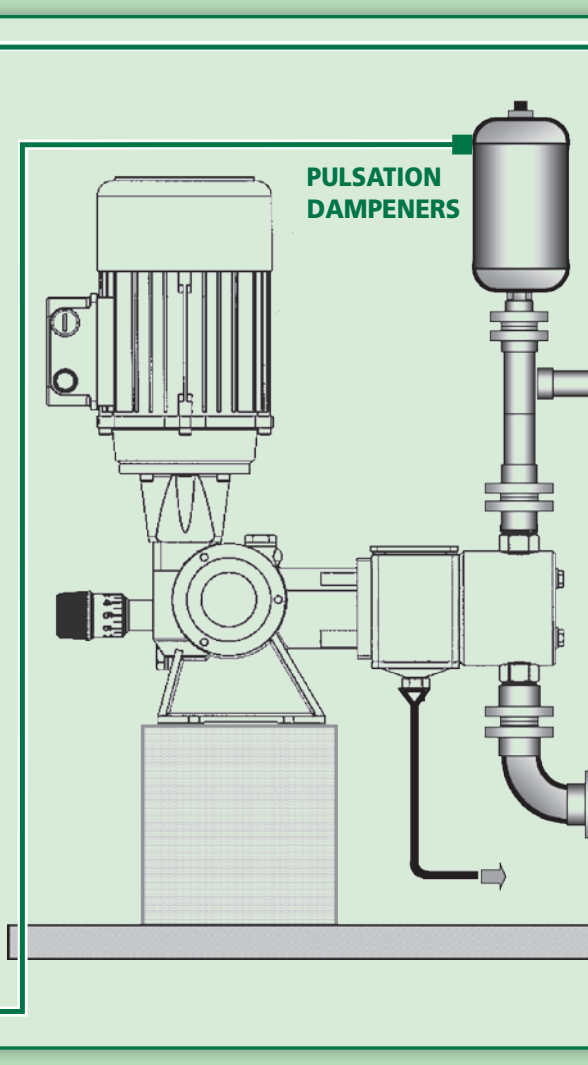
Type	Pump capacity	Connections
TS-10	200 l/h	3/8" or 1/2"
TS-13	400 l/h	1/2" G.F
TS-21	1000 l/h	1" G.F
Body	PVC or S.S. 316	

* S.S. 316 Relief - Safety valve setting pressure: max 40 kg/cm2 (588 Psi) higher pressures are available on request.
PVC Relief safety valve setting pressure: max 10 kg/cm2 (145 Psi).
For higher setting pressures consult our technical dept.

Pulsation dampeners

Type: HSTX
Body in S.S.316, composed of two parts assembled by a special hosing that under dynamic pressures tends to close itself. Diaphragms are compatible to the liquid used. Built in accordance with ASME VIII° Div. 1 rules.

Type: HSTPVC
Body in PVC, composed of two parts assembled by a special hosing that under dynamic pressures tends to close itself. Maximum temperature: + 50 °C. Diaphragms are compatible with the process liquid.

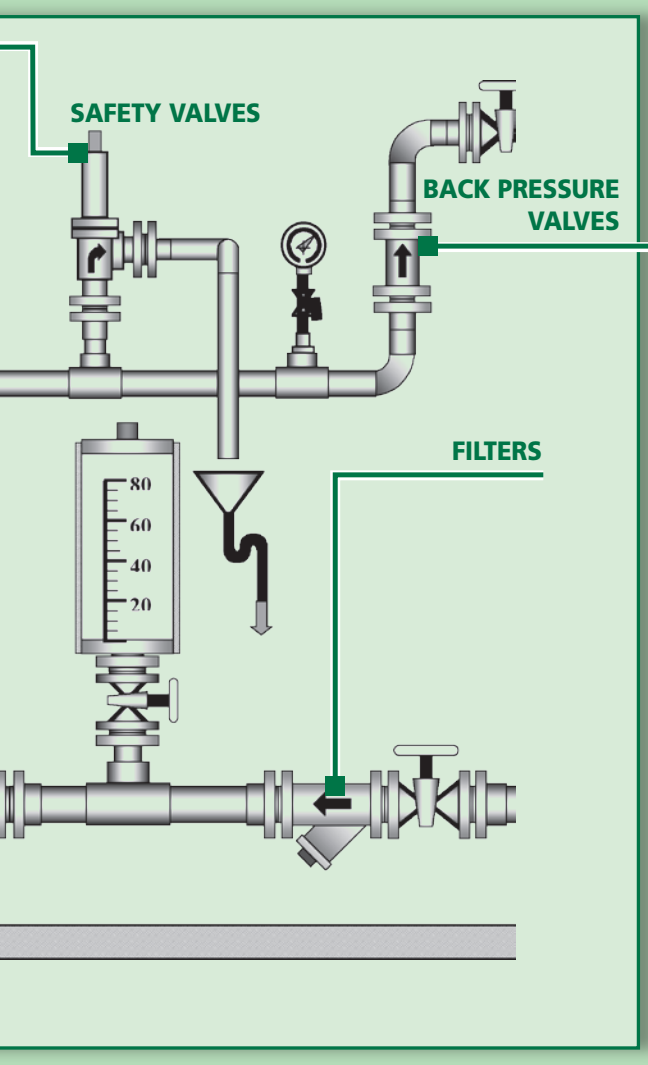


Each metering pump can be supplied with accessories in order to improve the operation and accuracy of the units.
The benefits of fluid control assure
- Increase efficiency and pump life
- Decrease maintenance and operation costs

The control of fluid dynamics is essential to ensure efficient and safe use of process systems. Uncontrolled fluid in motion can physically destrois. A pumping system including the pumping, valves, meters, back pressure valves, inline instrumentation and equipment.

1.- FILTERS
We suggest to install filters (on the suction pipe) to keep back impurities that can be presented on liquid to be dosed or coming from pipeline system.
The use of filters assures a trouble-free dosing.

2.- SAFETY VALVES
Safety valves are designed to protect the pump and chemical feed system from over pressure damage caused by defective equipment or a blockage in the chemical feed line.



Relief valves

Type	Pump Capacity	Connections
VSCS-6	90 l/h	1/2" G.F
VSCS-10	230 l/h	1/2" G.F
VSCS-14	420 l/h	3/4" G.F
VSCS-22	1050 l/h	1" G.F
Body	PVC, PP or S.S. 316	
Diaphragm	PTFE/NBR	

* Relief valve setting pressure:
3/10 kg/cm² (44/145 Psi)
G.F.= Cylindrical, Female

Back pressure valves

Type	Pump Capacity	Connections
VSCC-6	90 l/h	1/2" G.F
VSCC-10	230 l/h	1/2" G.F
VSCC-14	420 l/h	3/4" G.F
VSCC-22	1050 l/h	1" G.F
Body	PVC, PP or S.S. 316	
Diaphragm	PTFE/NBR	

* Back pressure valve setting pressure:
1/3 kg/cm² (15/44Psi)
G.F.= Cylindrical, Female

3.- BACK PRESSURE VALVES
Back pressure valves apply positive discharge pressure to a metering pump system to prevent siphoning and eliminate varying down-stream pressure.

4.- PULSATION DAMPENER
Metering pumps have a pulsating flow.
Both spring return plunger dosing pumps and quick closing valves start and stop fluids that are in motion. Spring return plunger dosing pumps derive their pumping action by capturing a given amount of fluid in a chamber and pushing it out the pump's discharge.

Each pump cycle includes a suction stroke during the fluid flow is stopped.
This pumping action produces an acceleration/deceleration of the fluid, creating units of uncontrolled energy, resulting in PULSATION, observed as pressure spikes.

Pulsation dampener is required for two reasons:
- Two reduce high, non- permissible pressure fluctuations.
- To create a nearly continuous flow.

Polyethylene tanks

suitable to be fitted with metering pump on its top

DOSEURO

Our range of production also includes:

SR Series Spring Return:
Piston dosing pumps: type "A" and "AP-A"
Mechanical diaphragm dosing pumps: type "D" and "FM"

PDP Series:
Positive displacement dosing pumps: type "AI" and "AP-AI"
Positive displacement dosing pumps: type "BI" and " SDI"

SDP Series:
Solenoid dosing pumps: type "S"
Solenoid dosing pumps: type "GA"

H Series:
Automatic plants for dissolution and preparation of powder polyelectrolytes:
type "HA" - "HB"- "HE" and "HA-P"

EM Series:
Electric Mixers for chemical mixing:
type "DAM", "DMT", "DEM", "DRV", "DRC" and "DVL"