Spring Return dosing pump A-piston type



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MAIN ELEMENTS TO SUPPORT OUR PRODUCTS

Versatility

Different piston sizes are available to suit different applications, starting from 0,8 until 1458 l/h

Reliability

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

Quality

The best performance for the applications is achieved by optimal selection of plunger material and seal design.

FEATURES

Piston metering pumps are suitable for use when:

- The dosed liquid is a non abrasive solution
- A drip proof system is not essential
- High pressure is required

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

The motor power range is from 0.18 Kw up to 0.75 KW as the European standard: 3 phase voltages of 230/400V @ 50/60Hz, 4 pole and 1 phase voltages of 230/50-60 Hz or 110/60 Hz. As motors conform to UNEL-MEC specifications, there are many alternative option available, including different voltages, insulation class and special explosion proof versions.

DOSEURO

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Spring Return Plunger Dosing Pumps



Type A and AP-A

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 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. Piston gaskets are of the lip type design and are available in a wide range of materials (FPM, EPDM, SILICONE, ADIPRENE) and also in PTFE packing. Standard liquid handled maximum temperature

- 90° C with S.S. 316 pump head
- 40° C with PVC pump head

Jacketed pump head for either cooling or heating are available to suit requirements. Piston glandling arrangements can be supplied with water washed seals to continuously flush the piston.

PLUNGERS

There are made in S.S. 316 or Ceramics

SUCTION AND DISCHARGE CONNECTIONS

Normally are threaded, but they can be supplied also 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

Flow rate adjustment is possible while running or at standstill. The movement of the piston is based on a precise reciprocating gearbox, which provides an exact volumetric displacement. 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

MULTIPLE HEADED PUMPS

Different multiple heads units are available on request.

Each pumping element has independent adjustment while running or at standstill.

HIGH PRESSURE EXECUTION

These pumps use the same crank mechanism of the pumps "A" type, but the difference is on the hydraulic part that must be suitable to satisty very hard requirements.

"A" series piston pumps are available in different sizes:
A 125 N
Piston stroke 12.5 mm
A 175 N
Piston stroke 17.5 mm
A 250 N
Piston stroke 25 mm
A 350N
Piston stroke 35 mm
For these types, 11 different piston sizes are available to suit different applications for capacity and pressure.









SOME STANDARDS EXECUTIONS FOR PISTON PUMPS

EXECUT.	PUMPHEAD	PISTON	VALVE (ball)	VALVE SEATS	PISTON GASKETS
11	S.S. 316	S.S. 316	S.S. 316	S.S. 316	NBR
13	PVC	CERAMIC	PYREX	PVC	FPM
17	S.S. 316	CERAMIC	S.S. 316	S.S. 316	FPM
19	S.S. 316	S.S. 316	S.S. 316	S.S. 316	FPM
20	PVC	S.S. 316	PYREX	PVC	NBR
21	S.S. 316	S.S. 316	S.S. 316	S.S. 316	PTFE
32	S.S 316	S.S 420	S.S 316	S.S. 316	AU
41	S.S 316	CERAMIC	S.S. 316	S.S. 316	AU

FPM = fluoroelastomer S.S 316 = stainless steel 316 C.O. = Chromium Oxide PP/FRV = polypropylene + glass fibber

Difference executions on request

Glossary and numbering system to identify pumps type

А	125N	38/	F	11	DV
1st group	2nd group	3rd group	4th group	5th group	6th group
"A" type piston dosing pump	Stroke length	Piston diameter in mm	Reduction ratio group (N° of piston strokes/min) F(1/24) - B (1/12)	Materials in touch with the fluid	Not standard- special code

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

GENERAL OVERALL DIMENSIONS

	125	175	250	350
А	57	68	75	75
В	90	100	127	127
с	70	75	120	120
D	75	72	70	70
Е	378	410	450	455
F	90	90	154	154
G	70	70	130	130
н	115	125	157	157
I	65	65	102	102
L	7	7	9	9
М	140	160	194	200
N	32	32	60	60
0	80	78	78	78



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

Spring Return Plunger Dosing Pumps

Type A 125N



TECHNICAL CHARACTERISTICS

	R	educer rat	io		Capaci	ty (*2)		Max Pre	ess. (*3)	Connections (*4)		Motor	ø mm	Steeleo	Net Weights Kg (*5)	
Pump type	(*1)	SPM	(*1)	L/	1′	L	/h	Kg/	cm2	Connecti	0113 (4)	Features	Real	Length	(*!	5)
	(''	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	SS 316	PVC	SS 316	PVC		piston		SS 316	PVC
	F	58	70	0,013	0,017	0,8	1,0									
A-125N-6	С	96	116	0,022	0,027	1,3	1,6						6		8,5	7,5
	В	116		0,027		1,6										
	1	35	42	0,04	0,048	2,4	2,8									
A-125N-11	F	58	70	0,066	0,080	4	4,8						11.11		8.5	7.5
	С	96	116	0,110	0,133	6	8	20							-,-	.,_
	В	116		0,133		8										
	1	35	42	0,1	0,120	6	7,2									
A-125N-18	F	58	70	0,166	0,200	10	12						17.46		8.5	7.5
	C	96	116	0,273	0,330	16	20		10						, i	· ·
	В	116		0,330		20										
	I	35	42	0,221	0,264	13,2	15,8					Kw 0.18 3 Ph				
A-125N-25	F	58	70	0,366	0,440	22	26,4	20				~1400 rpm	25.4	12 5	8.5	7.5
	C	96	116	0,604	0,733	36	44			1/2″	G.m.	Or Kwy 0.19		mm	.,.	
	В	116		0,733		44						1 ph				
	I	35	42	0,311	0,374	18,7	22,4					~1400 rpm				
A-125N-30	F	58	70	0,516	0,620	31	37,2	14					30.16		8,5	7,5
	C	96	116	0,854	1,033	51	62								, i	· ·
	В	116		1,033		62										
	I	35	42	0,502	0,600	30	36									
A-125N-38	F	58	70	0,833	1,000	50	60	9	9				38.1		10	8,2
	C	96	116	1,373	1,660	82	100									
	В	116		1,660		100										
		35	42	0,784	0,940	47	56									
A-125N-47	F	58	70	1,300	1,560	78	93,6	5.	.5				47.63		10	8,4
	C	96	116	2,150	2,600	129	156									
	В	116		2,600		156										

(*1) Piston strokes number during 1 minute with 4 poles installed motor (1400 rpm)

Reducer ratio
35 strokes at 50 Hz / 42 strokes at 60 Hz
Reducer ratio
124 = 58 strokes at 50 Hz / 70 strokes at 60 Hz
Reducer ratio
14,5 = 96 strokes at 50 Hz / 116 strokes at 60 Hz
Reducer ratio
112 = 116 strokes at 50 Hz / not suitable

(*2) The indicated capacity value is subject to change due to the working pressure, dosed liquid, viscosity and installation asset.
(*3) High pressures are available
(*4) Different ranges of connections are available on request
(*5) The weight is approximate and it 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 coated RAL 7030



Type A 175N



Stand P

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TECHNICAL CHARACTERISTICS

	Redu	ucer ratio	(*1)		Capaci	ty (*2)			Max Pro Kg/	ess. (*3) cm2		Conne	ctions		ø mm		Net W	eights	
Pump type		SP	M	L/	'1'	L/	′h	SS	SS	PVC	PVC	(*	4) 	Motor	Deal	Stroke	Kg	(*5)	
	(* 1)	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	316 0,25 KW	316 0,37 KW	0,25 KW	0,37 KW	SS 316	SS 316 PVC		Real piston	Lengitt	SS 316	PVC	
	F	70	84	0,021	0,026	1,3	1,56												
A-175N -6	С	96	116	0,029	0,035	1,7	2,11			//	//				6		11	10	
	В	120		0,036		2,2													
	F	70	84	0,100	0,120	6	7,2												
A-175N -11	С	96	116	0,133	0,160	8	9,6								11.11		11	10	
	В	120		0,166		10		2	0										
	F	70	84	0,283	0,340	17	20,4	-											
A-175N -18	C	96	116	0,400	0,480	24	28								17.46		11	10	
	В	120		0,500		30								K0.25					
	F	70	84	0,616	0,740	37	44,4							KW 0.25 or					
A-175N -25	C	96	116	0,853	1,024	51	61,4			1	0	1/2 "	G.m.	Kw 0.37	25.4		11	10	
	В	120		1,066		64								3 Ph ~1400					
	F	70	84	0,866	1,400	52	62,4							rpm					
A-175N -30	C	96	116	1,200	1,440	72	86	20	20					Or Kwr 0.25	30.16	17.5	11	10	
	В	120		1,500		90								Or					
	F	70	84	1,383	1,660	83	99,6							Kw 0.37					
A-175N -38	C	96	116	1,920	2,304	115	138	13	20					⊥Pn ~1400	38.1		12	10,5	
	В	120		2,400		144	_							rpm					
	F	70	84	2,166	2,600	130	156												
A-175N -47	C	96	116	3,013	3,615	180	216	8.5	13	8.5	10				47.63		12	10,5	
	В	120		3,766		226													
	F	/0	84	2,800	3,360	168	201,6		10		10				52.00		45.0	42.4	
A-175N -54	C	96	116	3,866	4,640	232	2/8	6.5	10	6.5	10				53,98		15,8	12,4	
	B	120		4,830	1 70 (290						3/4"	G.m.						
	F	70	84	3,933	4,720	236	283,2		_		_				60 F			10.5	
A-175N -64	C	96	116	5,440	6,528	326	391	4.5	7	4.5	7				63.5		16,4	12,5	
	В	120		6,800		408													

- (*1) Piston strokes number during 1 minute with 4 poles installed motor (1400 rpm) 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 change due to the working pressure, dosed liquid, viscosity and installation asset.
 (*3) High pressures are available
 (*4) Different ranges of connections are available on request
 (*5) The weight is approximate and it 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 coated RAL 7030

Spring Return Plunger Dosing Pumps Type A 250N and A 350N



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TECHNICAL CHARACTERISTICS

	Rec	lucer ratio	(*1)		Capaci	ty (*2)			Max Pr Kg/	ess. (*3) cm2		Connections (*4		Connections (*4)		Connections (*4)		Connections (*4)		Connections (*4)		Connections (*4)		ø mm	Chuelie	Net Wei	ghts Kg
Pump type		Strokes n	umber /1'	L/	1′	L	′h	SS 316	SS 316	PVC KW	рус кw			Motor	Real	Lenght	(^	^{>)}									
	(*1)	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	KW 0,55	КW 0,75	0,55	0,75	SS 316	PVC		piston	-	SS 316	PVC									
	F	56	67	0,716	0,860	43	51,6																				
A-250N-25	С	96	116	1,228	1,474	73	88	20	//	//	//				25,4		21	//									
	В	112		1,433		86						1/2	"														
	F	56	67	1,600	1,920	96	115,2					G.r	n.														
A-250N-38	С	96	116	2,743	3,290	164	197,5	20	20	//	//				38,1		23	17									
	В	112		3,200		192																					
	F	56	67	2,500	3,000	150	180							or Kw													
A-250N-47	С	96	116	4,285	5,142	257	308	17	20	10	10			0.75	47,63		23	17									
	В	112		5,000		300						3/4	"	3 Ph ~1∕100													
	F	56	67	3,200	3,840	192	230,4					G.r	n.	rpm													
A-250N-54	С	96	116	5,485	6,582	329	395	13	17	10	10			Or	53,98	25	23.5	17.5									
	В	112		6,400		384								or Kw													
	F	56	67	4,433	5,320	266	319,2							0.75													
A-250N-64	С	96	116	7,600	9,120	456	547,2	9,5	12	9.5	10			1 ph	63,5		25.5	20									
	В	112		8,860		532								rpm													
	F	56	67	6,383	7,660	383	459,6					1	,														
A-250N-76	С	96	116	10,943	13,131	656	787,8	6,5	8,6	6.5	8,6	G.r	n.		76,2		26	20									
	В	112		12,760		766																					
	F	56	67	8,683	10,420	521	625,2																				
A-250N-89	С	96	116	14,885	17,862	893	1071,7	4,8	6,3	4.8	6,3				88,9		29	20									
	В	112		17,360		1042																					
		1																									
	F	56	67	12,150	14,566	729	874					1.1/	2″														
A-350N-89	C	96	116	20,816	24,966	1249	1498	//	4	//	4	G.r	– n.	Kw 0.75	88,9	35	35	24									
	В	112		24,300		1458																					

(*1) Piston strokes number during 1 minute with 4 poles installed motor (1400 rpm) 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 change due to the working pressure, dosed liquid, viscosity and installation asset.
(*3) High pressures are available
(*4) Different ranges of connections are available on request
(*5) The weight is approximate and it 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.

The pumps can be supplied with accessories if requested The pumps are epoxy coated RAL 7030





Type AP-A 125N

_	Red	ucer ratio	o (*1)		Capaci	ty (*2)		Max Pro Kg/	ess. (*3) cm2	Connections	Motor	Real	Stroke	Net weights
Pump type	(1*)	SF	M	L/	1′	L	/h	SS	316	(*4)	features	piston Ømm	length mm	Kg (*5)
	(1")	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	Kw 018	Kw 025	SS 316				SS 316
	1	35	42	0,019	0,022	1,1	1,3							
AD A 13EN 9	F	58	70	0,031	0,036	1,9	2,2	05	250			0		0
AP A-125N - 0	С	96	116	0,051	0,061	3,1	3,7	95	250			0		9
	В	116		0,061		3,7								
	1	35	42	0,044	0,052	2,6	3,1							
AD A 13EN 13	F	58	70	0,073	0,086	4,4	5,2	00	170		Kw 0,18 3 nh	10		0
AP A-125N - 12	С	96	116	0,120	0,143	7,2	8,6	00	170		~ 1400	12		9
	В	116		0,143		8,6				1/2 " G m	rpm		12 5	
	1	35	42	0,060	0,070	3,6	4,2			1/2 0.111.	kw 0,18		12,5	
AD A 13EN 14	F	58	70	0,100	0,116	6	7	6F	125		~ 1400	1.4		0
AP A-125N - 14	С	96	116	0,165	0,196	9,9	11,8	05	125		rpm 1 nh	14		9
	В	116		0,196		11,8					. p.:			
	1	35	42	0,078	0,094	4,7	5,6							
AD A 125N . 16	F	58	70	0,130	0,155	7,8	9,4	50	06			16		0
AF A-125N - 10	С	96	116	0,215	0,256	13	15,6	50	90			10		9
	В	116		0,256		15,6								

(*1) Piston strokes number during 1 minute with 4 poles installed motor (1400 rpm)
 I = Reducer ratio 1: 40 = 35 strokes at 50 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 at 60 Hz

<u>pe AP-A 175N</u>

	Red	ucer ratio	o (*1)		Capacit	y (*2)		Max Pre Kg/	ess. (*3) cm2	Connections	Motor	Real	Stroke	Net weights	
Pump type	(1*)	SP	M	L/	1′	L/	′h	SS	316	(^4)	features	piston Ø mm	length mm	Kg (*5)	
	(1*)	50 Hz	60 Hz	50 Hz	50 Hz	50 Hz	60 Hz	Kw 025	Kw 037	SS 316				SS 316	
	F	70	84	0,055	0,066	3,3	3,9								
AP A - 175N -8	С	96	116	0,075	0,090	4,5	5,4	95	250			8		11	
	В	120		0,093		5,6									
	F	70	84	0,123	0,147	7,4	8,8								
AP A - 175N -12	С	96	116	0,168	0,201	10,1	12,1	95	233		Kw 0,25	12		11	
	В	120		0,210		12,6					3 ph				
	F	70	84	0,188	0,225	11,3	13,5				~ 1400 rpm				
AP A - 175N -14	С	96	116	0,256	0,307	15,4	18,4	95	171	1/2″ G.m.	or	14	17,5	11	
	В	120		0,321		19,3					kw 0,25 ~ 1400				
	F	70	84	0,245	0,294	14,7	17,6				rpm				
AP A - 175N -16	С	96	116	0,335	0,402	20,1	24,1	75	131		1 ph	16		11	
	В	120		0,420		25,2									
	F	70	84	0,280	0,336	16,8	20,1								
AP A - 175N -18	С	96	116	0,383	0,459	23	27,6	59	102			18		11	
	В	120		0,476		28,6									

(*1) Piston strokes number during 1 minute with 4 poles installed motor (1400 rpm)
 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 at 60 Hz



High pressure Spring Return Plunger Dosing Pumps Type AP-A 250N

	Red	ucer ratio	(*1)		Capacit	ty (*2)		Max Pr Kg/	ess. (*3) cm2	Connections		Real	Stroke	Net weights
Pump type		SP	M	L/	1′	L	/h	SS	316	(^4)	Motor features	piston	length	Kg (*5)
	(1*)	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	Kw 0,55	Kw 0,75	SS 316		Ømm	mm	SS 316
	F	56	67	0,141	0,169	8,5	10,2							
AP A 250N -12	С	96	116	0,241	0,289	14,5	17,4		250			12		20
	В	112		0,281		16,9								
	F	56	67	0,193	0,231	11,6	13,9							
AP A 250N - 14	С	96	116	0,330	0,396	19,8	23,8		250			14		20
	В	112		0,385		23,1								
	F	56	67	0,251	0,301	15,1	18,2							
AP A 250N - 16	С	96	116	0,430	0,516	25,8	31	95	196		Kw 0,55	16		22
	В	112		0,500		30					or Kw 0,75			
	F	56	67	0,320	0,384	19,2	23				3 pn ~ 1400 rpm			
AP A 250N - 18	С	96	116	0,548	0,657	32,9	39,4		155	1/2″ G.m.	or	18	25	22
	В	112		0,638		38,3					kw 0,55			
	F	56	67	0,395	0,474	23,7	28,4				~ 1400 rpm			
AP A 250N - 20	С	96	116	0,676	0,811	40,6	48,7		126		1 ph	20		22
	В	112		0,788		47,3								
	F	56	67	0,478	0,573	28,7	34,4							
AP A 250N - 22	С	96	116	0,820	0,984	49,2	59	79	104			22		22
	В	112		0,956		57,4								
	F	56	67	0,616	0,740	37	44,4							
AP A 250N - 25	С	96	116	1,058	1,270	63,5	76,2	61	80			25		22
	В	112		1,235		74,1								

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(*1) Piston strokes number during 1 minute with 4 poles installed motor (1400 rpm)
 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 at 60 Hz

(*2) The indicated capacity value is subject to change due to the working pressure, dosed liquid, viscosity and (*2) The indicated capacity value is subject to change due to the working "pressure, dosed liquid, viscosity and installation asset.
 (*3) High pressures are available
 (*4) Different ranges of connections are available on request
 (*5) The weight is approximate and it 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 coated RAL 7030







N2

Safety relief valves

TS-10		
13-10	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

Accessories

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 dopt technical dept.

Pulsation dampeners

Type: HSTX

Body

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 and back pressure valves

Туре	Pump Capacity	Connections
VSC-6	90 l/h	1/2″ G.F
VSC-10	230 l/h	1/2″ G.F
VSC-14	420 l/h	3⁄4″ G.F
VSC-22	1050 l/h	1″ G.F
Body	PVC or S.S. 316	
Diaphragm	PTFF/NBR	

* Relief valve setting pressure. 3/10 kg/cm2 (44/145 Psi) Back pressure valve setting pressure: 1/3 kg/cm2 (15/44Psi) G.F.= Cylindrical, Female

Polyethylene tanks

suitable to be fitted with metering pump on its top





3.- BACK PRESSURE VALVES

Back pressure valves apply positive discharge pressure to a metering pump system to prevent siphoning and eliminate varying downstream 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.





Our range of production also includes:

SR series:

Hydraulic diaphragm dosing pumps "B", "BR" and "SD" types Mechanical diaphragm dosing pumps "D" and "FM" types

PDP series:

Positive displacement dosing pump "AI" and "SDI" types High pressure positive displacement dosing pump "AP-AI" types

SDP series:

Solenoid dosing pumps "S" type Solenoid dosing pumps "GA" type

H series:

Automatic plants for dissolution and preparation of powder polyelectrolytes "HA", "HB" types

EM series:

Electric mixers for chemical mixing "DMT", "DEM", "DRV" and "DRC" types

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