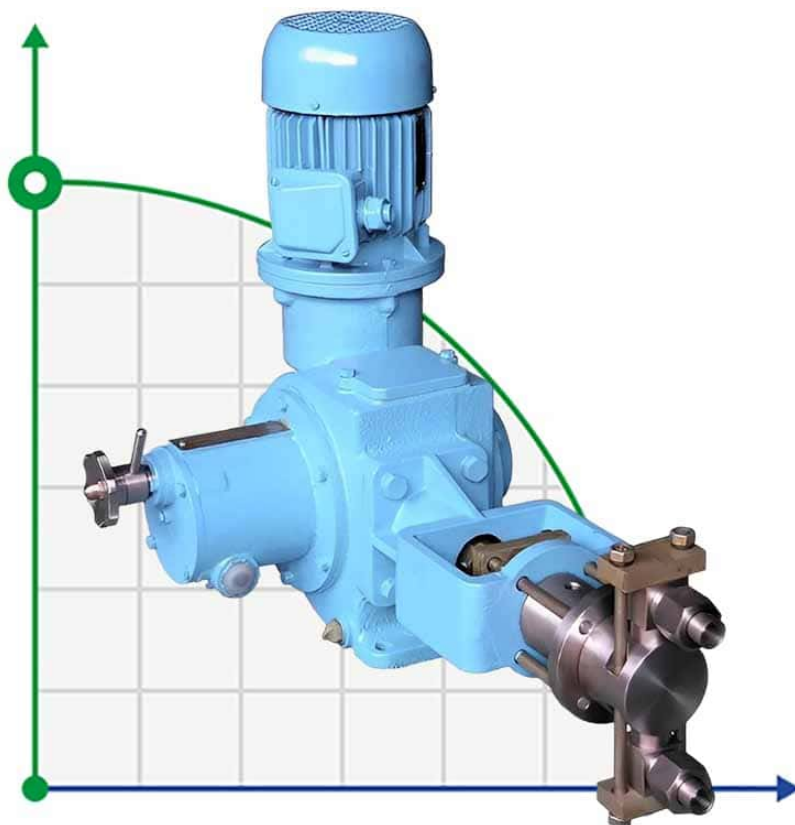


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## Catalog ND series plunger dosing pumps

<https://bts.net.ua>

## ■ Purpose

**Dosing plunger pumps** and units are designed for volumetric pressure dosing of neutral and aggressive liquids, emulsions and suspensions with a density of not more than 1300 kg/m<sup>3</sup>, with kinematic viscosity from  $8.5 \times 10^{-7}$  to  $8 \times 10^{-4}$  m<sup>2</sup>/s (from 0.0085 to 8 St), with a temperature from 258 K to 423 K (from -15 °C to +150 °C), with a solid non-abrasive phase concentration of not more than 10% by weight with a maximum particle density of up to 2000 kg / m<sup>3</sup>, with a grain size of the solid non-abrasive phase not more than 1% of the nominal diameter of the inlet pipe.

## ■ Construction

The ND unit consists of a drive and a pump. An electric motor and a geared motor can act as a drive.

The pump consists of a single or double movement mechanism and a corresponding number of hydraulic cylinders. The movement mechanism includes a built-in worm gear, a crank mechanism for converting rotational motion into reciprocating motion, and a plunger stroke length adjustment mechanism. The worm gear may be absent (for pumps driven by the balancer of the pumping unit).

The hydraulic cylinder consists of a housing, a plunger with a seal, ball valves and connecting pipes.

## ■ Designation

Implement designation example **2ND 800/63 D14B**, where:

**2** - the number of plungers (single-plunger - not indicated; 2 - double-plunger);

**ND** - purpose and design differences:

**ND** - dosing pump without a heating (cooling) jacket,

**NDR** - dosing pump with adjustment on the go;

**800** - supply, l / h;

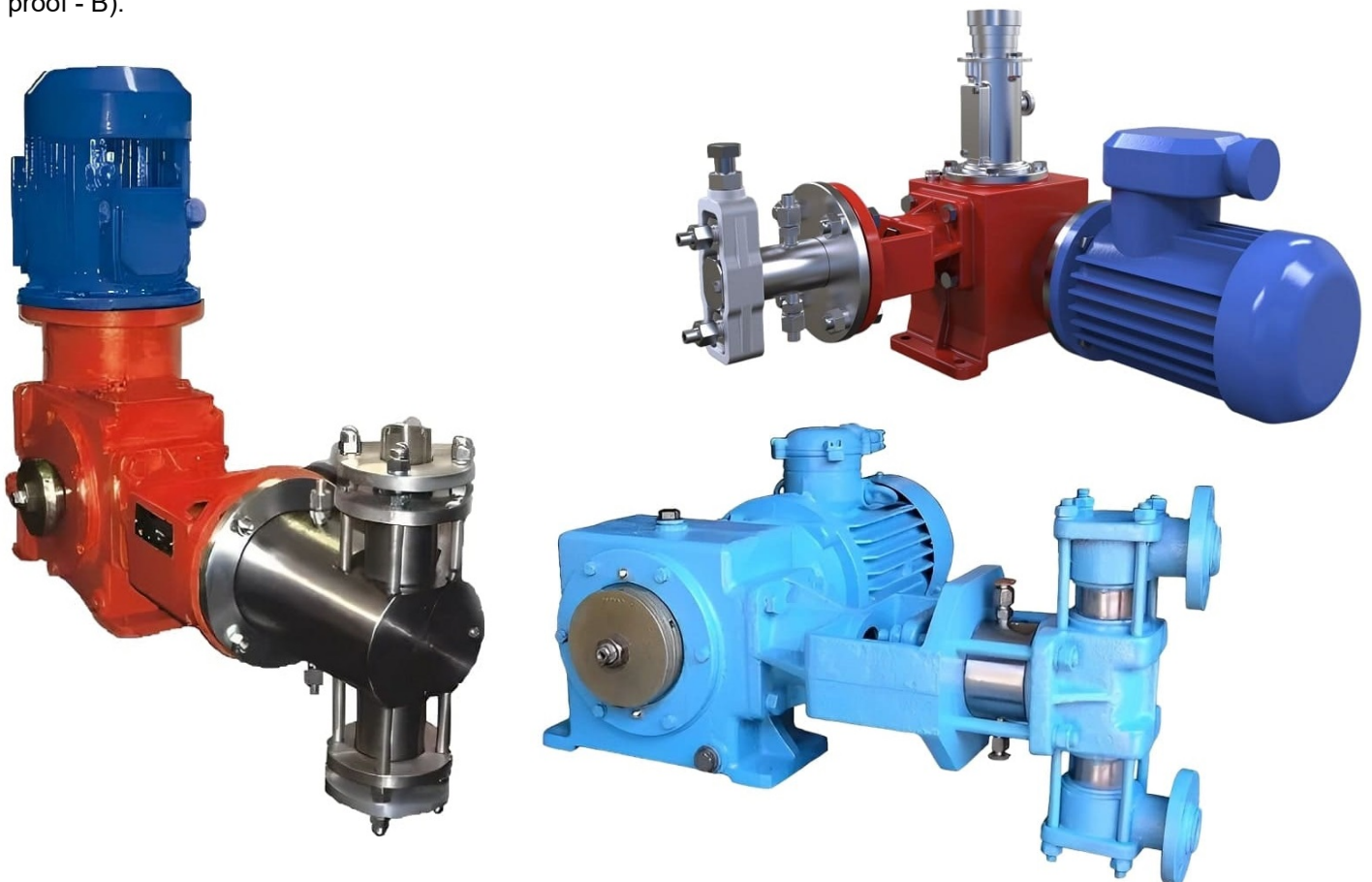
**63** - pressure at the outlet of the pump, kgf / cm<sup>2</sup>;

**D** - execution according to the material of the flow part (steel 20X13 (AISI 420) - D, steel 12X18H10T (AISI 321) - K);

**1** - execution according to the type of plunger seal (chevron cuffs - 1, gland packing - 2);

**4** - execution according to the design of the plunger seal (without a supply of cooling, sealing or flushing liquid - 3; with a supply of cooling, barrier or flushing liquid - 4);

**B** - execution according to the degree of explosion protection of the electric motor (general industrial - A, explosion-proof - B).



# Plunger dosing pumps type ND

Dimension-type of the pump (unit facility)	Feeding, L/h	Number of plunger double stripping per min	Pressure in pump outlet kgf/sm <sup>2</sup>	Type	Engine	Power, kW	Voltage	Speed, rpm	Dimensions (LxWxH), mm	Weight, kg		
ND 2500/10	2500	100	10	D(K)14(24)A	AIR 100S4U3; AIM 100S4U2,5	3	3x380 V	1500	845x335x727	168,9		
ND 2500/10	2500	100	10	D(K)14(24)B			3x380 V	1500	845x335x792	203,3		
2ND 125/400	125	100	400	D(K)14(24)A	AIR 112M4U2,5; AIM 112M4U2,5	5,5	3x380 V	1500	1390x363x883	229		
2ND 125/400	125	100	400	D(K)14(24)B			3x380 V	1500	1390x363x948	263		
2ND 200/250	200	100	250	D(K)14(24)A			3x380 V	1500	1390x363x883	244		
2ND 200/250	200	100	250	D(K)14(24)B			3x380 V	1500	1390x363x948	278		
2ND 320/160	320	100	160	D(K)14(24)A			3x380 V	1500	1390x363x883	244		
2ND 320/160	320	100	160	D(K)14(24)B			3x380 V	1500	1390x363x948	278		
2ND 500/100	500	100	100	D(K)14(24)A			3x380 V	1500	1360x363x883	230		
2ND 500/100	500	100	100	D(K)14(24)B			3x380 V	1500	1360x363x948	264		
2ND 800/63	800	100	63	D(K)14(24)A			3x380 V	1500	1520x290x883	252,3		
2ND 800/63	800	100	63	D(K)14(24)B			3x380 V	1500	1520x290x948	294		
2ND 1250/40	1250	100	40	D(K)14(24)A			3x380 V	1500	1520x290x883	257		
2ND 1250/40	1250	100	40	D(K)14(24)B			3x380 V	1500	1520x290x948	295,5		
2ND 2000/25	2000	100	25	D(K)14(24)A			3x380 V	1500	1539x290x883	320		
2ND 2000/25	2000	100	25	D(K)14(24)B			3x380 V	1500	1539x290x948	354		
2ND 3200/16	3200	100	16	D(K)14(24)A			3x380 V	1500	1530x290x883	297		
2ND 3200/16	3200	100	16	D(K)14(24)B			3x380 V	1500	1530x290x948	331		
2ND 5000/10	5000	100	10	D(K)14(24)A			3x380 V	1500	1538x363x883	338		
2ND 5000/10	5000	100	10	D(K)14(24)B			3x380 V	1500	1538x363x948	372		
ND 40/400	40	100	400	D(K)14(24)A			AIR 90L4U3; AIM 90L4U2,5	2,2	3x380 V	1500	745x335x714	131,4
ND 40/400	40	100	400	D(K)14(24)B					3x380 V	1500	745x335x772	163
ND 40/630	40	100	630	D(K)14(24)A			AIR 100S4U3; AIM 100S4U2,5	3	3x380 V	1500	745x335x727	138,9
ND 40/630	40	100	630	D(K)14(24)B					3x380 V	1500	745x335x792	173,3
ND 100/250	100	100	250	D(K)14(24)A					3x380 V	1500	760x335x727	136,4
ND 100/250	100	100	250	D(K)14(24)B					3x380 V	1500	760x335x792	170,8
ND 63/400	63	100	400	D(K)14(24)A	3x380 V	1500			745x335x727	138,9		
ND 63/400	63	100	400	D(K)14(24)B	3x380 V	1500			745x335x792	173,3		
ND 160/160	160	100	160	D(K)14(24)A	3x380 V	1500			755x335x727	140,9		
ND 160/160	160	100	160	D(K)14(24)B	3x380 V	1500			755x335x792	175,3		
ND 250/100	250	100	100	D(K)14(24)A	3x380 V	1500			740x335x727	131,9		
ND 250/100	250	100	100	D(K)14(24)B	3x380 V	1500			740x335x792	166,3		
ND 400/63	400	100	63	D(K)14(24)A	3x380 V	1500			820x335x727	144,9		
ND 400/63	400	100	63	D(K)14(24)B	3x380 V	1500			820x335x792	179,3		
ND 630/40	630	100	40	D(K)14(24)A	3x380 V	1500			825x335x727	144,9		
ND 630/40	630	100	40	D(K)14(24)B	3x380 V	1500			825x335x792	179,3		
ND 1000/25	1000	100	25	D(K)14(24)A	3x380 V	1500			835x335x727	160,9		
ND 1000/25	1000	100	25	D(K)14(24)B	3x380 V	1500			835x335x792	195,3		
ND 1600/16	1600	100	16	D(K)14(24)A	3x380 V	1500			814x335x727	160,9		
ND 1600/16	1600	100	16	D(K)14(24)B	3x380 V	1500			814x335x792	195,3		
ND 400/10	400	100	10	D(K)14A	AIR 80A4U3; AIM 80A4U2,5	1,1			3x380 V	1500	580x280x571,5	66,8
ND 400/10	400	100	10	D(K)14B					3x380 V	1500	580x280x625	76,5
ND 25/400	25	100	400	D(K)14(24)A	AIR 80B4; AIM 80B4	1,5			3x380 V	1500	745x335x687,5	156
ND 25/400	25	100	400	D(K)14(24)B					3x380 V	1500	745x335x717	170
ND 40/250	40	100	250	D(K)14(24)A					3x380 V	1500	745x335x687,5	125
ND 40/250	40	100	250	D(K)14(24)B					3x380 V	1500	745x335x717	140
ND 63/160	63	100	160	D(K)14(24)A					3x380 V	1500	745x335x687,5	417
ND 63/160	63	100	160	D(K)14(24)B					3x380 V	1500	745x335x717	132
ND 100/100	100	100	100	D(K)14(24)A					3x380 V	1500	760x335x687,5	116,4
ND 100/100	100	100	100	D(K)14(24)B					3x380 V	1500	760x335x717	130,4
ND 160/63	160	100	30	D(K)14(24)A					3x380 V	1500	755x335x687,5	126,4
ND 160/63	160	100	30	D(K)14(24)B					3x380 V	1500	755x335x717	140,4
ND 250/40	250	100	40	D(K)14(24)A					3x380 V	1500	740x335x687,5	118
ND 250/40	250	100	40	D(K)14(24)B					3x380 V	1500	740x335x717	132
ND 400/25	400	100	25	D(K)14(24)A					3x380 V	1500	820x335x687,5	131
ND 400/25	400	100	25	D(K)14(24)B					3x380 V	1500	820x335x717	145

ND 630/16	630	100	16	D(K)14(24)A			3x380 V	1500	825x335x687,5	131,1
ND 630/16	630	100	16	D(K)14(24)B			3x380 V	1500	825x335x717	145
ND 1000/10	1000	100	10	D(K)14(24)A			3x380 V	1500	835x335x687,5	146
ND 1000/10	1000	100	10	D(K)14(24)B			3x380 V	1500	835x335x717	160
ND 100/40	100	100	40	D(K)14(24)A	AIR 71A4U3; AIM 71A4U2,5	0,55	3x380 V	1500	565x280x557,5	55
ND 100/40	100	100	40	D(K)14(24)B			3x380 V	1500	565x280x590	61
ND 160/25	160	100	25	D(K)14A			3x380 V	1500	540x254x557,5	66,8
ND 160/25	160	100	25	D(K)14B			3x380 V	1500	540x66,8x590	76,5
ND 250/16	250	100	16	D(K)14(24)A			3x380 V	1500	541x280x557,5	62,8
ND 250/16	250	100	16	D(K)14(24)B			3x380 V	1500	541x280x590	72,5
ND 16/400	16	100	400	D(K)14(24)A	AIR 80A4U3; AIM 80A4U2,5	1,1	3x380 V	1500	575x254x571,5	56,1
ND 16/400	16	100	400	D(K)14(24)B			3x380 V	1500	575x254x625	69
ND 25/250	25	100	250	D(K)14A			3x380 V	1500	570x254x571,5	67,91
ND 25/250	25	100	250	D(K)14B			3x380 V	1500	570x254x625	80,81
ND 40/160	40	100	160	D(K)14A			3x380 V	1500	572x254x571,5	55,3
ND 40/160	40	100	160	D(K)14B			3x380 V	1500	572x254x625	68,2
ND 63/100	63	100	100	D(K)14(24)A			3x380 V	1500	561x254x571,5	60,3
ND 63/100	63	100	100	D(K)14(24)B			3x380 V	1500	561x254x625	70
ND 100/63	100	100	63	D(K)14(24)A	AIR 80A4U3; AIM 80A4U2,5	1,1	3x380 V	1500	565x280x571,5	56,1
ND 100/63	100	100	63	D(K)14(24)B			3x380 V	1500	565x280x625	71
ND 160/40	160	100	40	D(K)14A			3x380 V	1500	540x254x571,5	70,1
ND 160/40	160	100	40	D(K)14B			3x380 V	1500	540x254x625	83
ND 250/25	250	100	25	D(K)14(24)A			3x380 V	1500	541x280x571,5	66,4
ND 250/25	250	100	25	D(K)14(24)B			3x380 V	1500	541x280x625	79
ND 40/25	40	100	25	D(K)14(24)A	AIR 63A4U3; AIM 63A4U2,5	0,25	3x380 V	1500	472x215x400,5	23,9
ND 40/25	40	100	25	D(K)14(24)B			3x380 V	1500	522x215x441,5	35,7
ND 63/16	63	100	16	D(K)14(24)A			3x380 V	1500	472x215x400,5	25,2
ND 63/16	63	100	16	D(K)14(24)B			3x380 V	1500	522x215x441,5	37
ND 100/10	100	100	10	D(K)14(24)A			3x380 V	1500	472x215x400,5	26,3
ND 100/10	100	100	10	D(K)14(24)B	3x380 V	1500	522x215x441,5	37,6		
ND 10/400	10	100	400	D(K)14(24)A	AIR 71A4U3; AIM 71A4U2,5	0,55	3x380 V	1500	588x254x557,5	52,3
ND 10/400	10	100	400	D(K)14(24)B			3x380 V	1500	588x254x590	62,5
ND 16/250	16	100	250	D(K)14(24)A			3x380 V	1500	575x254x557,5	52,8
ND 16/250	16	100	250	D(K)14(24)B			3x380 V	1500	575x254x590	62,5
ND 25/160	25	100	160	D(K)14A			3x380 V	1500	570x254x557,5	64,61
ND 25/160	25	100	160	D(K)14B			3x380 V	1500	570x254x590	74,31
ND 40/100	40	100	100	D(K)14A	AIR 71A4U3; AIM 71A4U2,5	0,55	3x380 V	1500	554x280x557,5	53,3
ND 40/100	40	100	100	D(K)14B			3x380 V	1500	554x280x590	63
ND 63/63	63	100	63	D(K)14(24)A			3x380 V	1500	561x254x557,5	54
ND 63/63	63	100	63	D(K)14(24)B	3x380 V	1500	561x254x590	63,5		
ND 0,1/63	0,1	3,75	63	D(K)13	drive from the balancer of the rocking machine			456x265x104	11,35	
ND 0,63/63	0,63	3,75	63	D(K)13				460x265x114	11,87	
ND 0,4/63	0,4	30	63	D(K)14(24)A	AIR 63A4U3; AIM 63A4U2,5	0,25	3x380 V	1500	425x215x400,5	22,7
ND 0,4/63	0,4	30	63	D(K)14(24)B			3x380 V	1500	425x215x441,5	32,7
ND 1,0/63	1	30	63	D(K)14(24)A			3x380 V	1500	425x215x400,5	21,7
ND 1,0/63	1	30	63	D(K)14(24)B			3x380 V	1500	425x215x441,5	31,7
ND 1,6/63	1,6	30	63	D(K)14(24)A			3x380 V	1500	425x215x400,5	20,7
ND 1,6/63	1,6	30	63	D(K)14(24)B			3x380 V	1500	425x215x441,5	30,7
ND 10/100	10	100	100	D(K)14(24)A			3x380 V	1500	452x215x400,5	22,9
ND 10/100	10	100	100	D(K)14(24)B			3x380 V	1500	502x215x441,5	34,7
ND 16/63	16	100	63	D(K)14(24)A			3x380 V	1500	457x215x400,5	23
ND 16/63	16	100	63	D(K)14(24)B	AIR 63A4U3; AIM 63A4U2,5	0,25	3x380 V	1500	507x215x441,5	34,8
ND 2,5/400	2,5	100	400	D(K)14(24)A			3x380 V	1500	486x215x400,5	23,1
ND 2,5/400	2,5	100	400	D(K)14(24)B			3x380 V	1500	486x215x441,5	32,9
ND 25/40	25	100	40	D(K)14(24)A			3x380 V	1500	467x215x400,5	23,6
ND 25/40	25	100	40	D(K)14(24)B	3x380 V	1500	517x215x441,5	35,4		