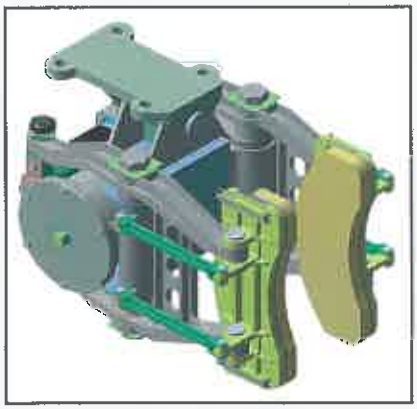
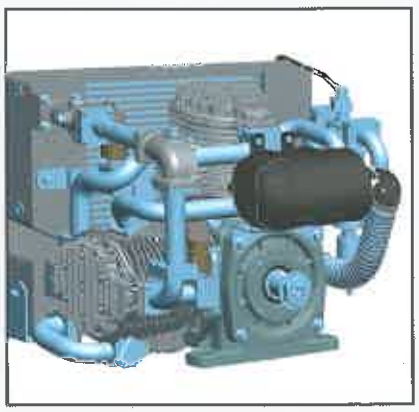
JOINT-STOCK COMPANY
TRANSPNEVMATIKA


Catalogue of Products

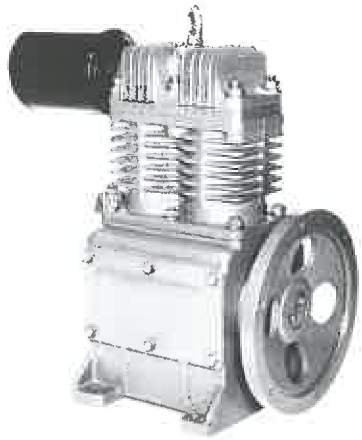
Brake equipment
Compressors | Hydraulic vibration dampers
Compensating load brakes and automatic brake adjusters | Coupling hose pipes
Automatic pneutronic stands and workstations

Compressors

The enterprise manufactures about 20 items of piston-type compressors, which are used as a source of compressed air to supply movable equipment of railway vehicles, underground trains, motive-power units, as well as trolleybuses, excavating machinery, track machines, and other facilities of the national economy.

Contents

Compressor VV 0,8/8-720



Designation	Compressed air feed of railway transport equipment pneumatic devices braking systems
Compressor type	Single-stage vertical two-cylinder compressor
Operation mode	Intermittent, with make time (MT) up to 50 % at duration of cycle about 10 min inclusively and nominal values of discharge pressure and crankshaft speed Compressor continuous running at nominal pressure is assumed for at most 15 min, but not more often than once within 2 hours
Notes	Exported as per order intake

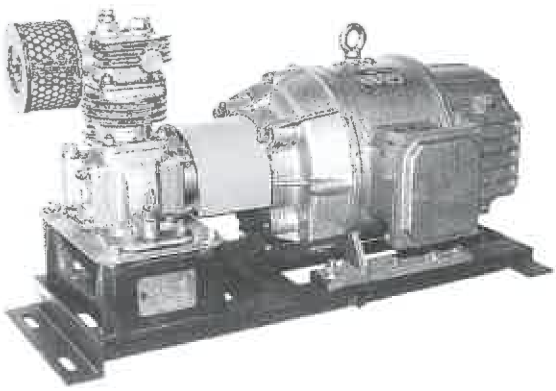
Specifications		
Output	m^3/min	0,8
Rated delivery pressure (excessive)	MPa (kgf/cm^2)	0,78 (8,0)
Rated crankshaft speed	C^{-1} (rpm)	12 (720)
Power demand	kW	**6,3**
Overall dimensions	mm	575 × 325 × 633
Weight	kg	105

Compressor VV 1,2/8-1100

Designation	Compressed air feed of braking systems and pneumatic devices of railroad engines, track and construction machines and other vehicles
Compressor type	Single-stage vertical two-cylinder compressor
Operation mode	Intermittent, with make time (MT) up to 50 % at duration of cycle about 10 min inclusively and nominal values of discharge pressure and crankshaft speed Compressor continuous running at nominal pressure is assumed for at most 15 min, but not more often than once within 2 hours

Specifications		
Output	m^3/min	$1{,}2_{-0,1}$
Rated delivery pressure (excessive)	MPa (kgf/cm^2)	0,78 (8,0)
Rated crankshaft speed	C^{-1} (rpm)	18,3 (1100)
Power demand	kW	10,2
Overall dimensions	mm	500 × 465 × 647
Weight	kg	133,5

Compressor plant VV 0,05/7-1000



Designation	Compressed air feed of collector bow lifting gears
Application	Suburban electric trains, electromotives
Compressor type	Piston, single-cylinder, one-stage compression. P31U3, P22U3 d.c. 110 or 50V supply voltage electric motor drive
Operation mode	Intermittent, with make time (MT) up to 50 %. Duration of cycle – up to 10 min

Specifications		П31У3	П22У3
Output	m³/min	0,05±5%	0,07±5%
Rated delivery pressure (excessive)	MPa (kgf/cm²)	0,7 (7,0)	
Rated crankshaft speed	C^{-1} (rpm)	16,6 (1000)	25 (1500)
Power demand	kW	0,5	0,8
Overall dimensions	mm	790 × 365 × 445	
Weight	kg	84	90

Compressor VV 1,75/9-1100

Designation	Compressed air feed of rail tractor and diesel-powered train braking systems and pneumatic devices
Compressor type	Two-stage vertical one-cylinder compressor
Operation mode	Intermittent, with make time (MT) up to 50 % at duration of cycle about 10 min inclusively and nominal values of discharge pressure and crankshaft speed Compressor continuous running at nominal pressure is assumed for at most 45 min, but not more often than once within 2 hours. Compressor lubrication – combined: splash and ejector
Notes	Exported as per order intake

Specifications		
Output	m³/min	$1,75^{+0,09}_{-0,25}$
Rated delivery pressure (excessive)	MPa (kgf/cm²)	0,9 (9,0)
Rated crankshaft speed	C^{-1} (rpm)	18,3 ± 0,8 (1100)
Power demand	kW	14,5
Overall dimensions	mm	498 × 462 × 1041
Weight	kg	265

Compressor VV 0,2/8-2000

Designation	Compressed air feed of motor vehicles braking systems and pneumatic devices
Compressor type	Single-stage vertical one-cylinder compressor
Operation mode	In oil motor operation mode

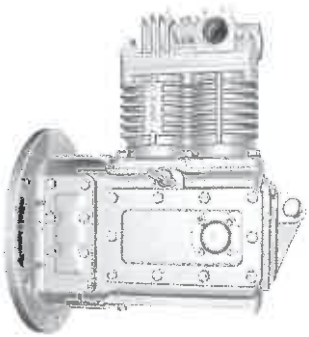
Specifications		
Output at crankshaft rotation speed 2000 rpm	l/min	200
Pressure limits	MPa (kgf/cm²)	0,8 ... 1 (8 ... 10)
Type of drive		V-belt drive
Lubrication system		Forced-feed lubrication from oil motor's lubrication system
Cooling system: - valve bonnet and valve - cylinder		liquid air
Weight	kg	10,5

Compressor VG 0,42/8-400 03

Designation	Compressed air feed of underground rail transit vehicles braking systems and pneumatic devices
Compressor type	Piston two-cylinder one-stage compression
Operation mode	Intermittent, with make time (MT) up to 50 %. Duration of cycle – up to 10 min
Notes	Manufactured as per TU 24.05.896-89

Specifications		
Output	m³/min	0,42
Rated delivery pressure (excessive)	MPa (kgf/cm²)	0,8 (8,0)
Rated crankshaft speed	C^{-1} (rpm)	6,7 (400)
Power demand	kW	3,2
Rated voltage in electric motor power line	V	750
Overall dimensions	mm	605 × 497 × 627
Weight	kg	130

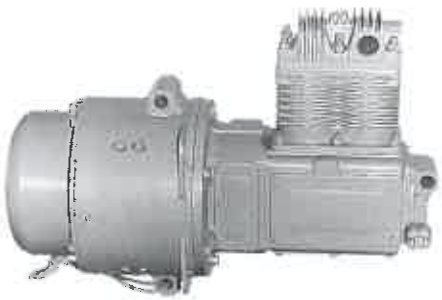
Compressor VG 0,58/8-540 01



Designation	Compressed air feed of railway transport equipment pneumatic devices and braking systems
Применение	Electric trains
Compressor type	Piston, two-cylinder, one-stage compression
Operation mode	Intermittent, with make time (MT) up to 50 %. Duration of cycle – up to 10 min
Notes	Manufactured as per TU 24.05.126-80

Specifications		
Output	m^3/min	0,58
Rated delivery pressure (excessive)	MPa (kgf/cm^2)	0,8 (8,0)
Rated crankshaft speed	C^{-1} (rpm)	9,0 (540)
Power demand	kW	4,7
Overall dimensions	mm	520 × 438 × 583
Weight	kg	118

Electrically driven air Compressor EK 4B-M



Designation	Compressed air feed of underground rail transit vehicles braking systems and pneumatic devices
Compressor type	Single-stage horizontal two-cylinder compressor
Operation mode	Intermittent, with make time (MT) up to 50 % at duration of cycle about 10 min inclusively and nominal values of discharge pressure and crankshaft speed Compressor continuous running at nominal pressure is assumed for at most 15 min, but not more often than once within 2 hours
Notes	Exported as per order intake

Specifications		
Compressor drive		d.c.electric motor 410 P
Supply voltage	V	750
Power demand	kW	3,7
Output	m^3/min	0,42
Rated delivery pressure (excessive)	MPa (kgf/cm^2)	0,8 (8,0)
Rated crankshaft speed	C^{-1} (rpm)	6,41 (385)
Overall dimensions	mm	1020 × 669 × 497
Weight	kg	310

Compressor EK 4-M

Designation	Compressed air feed of braking systems and pneumatic devices of trolley buses, tram cars and dredges
Compressor type	Single-stage horizontal two-cylinder compressor
Operation mode	Intermittent, with make time (MT) up to 50 % at duration of cycle about 10 min inclusively and nominal values of discharge pressure and crankshaft speed Compressor continuous running at nominal pressure is assumed for at most 15 min, but not more often than once within 2 hours
Notes	Exported as per order intake

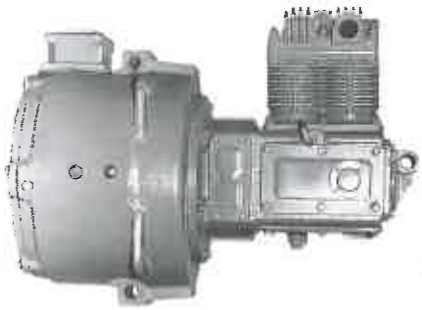
Specifications		
Output	m^3/min	0,4
Rated delivery pressure (excessive)	MPa (kgf/cm^2)	0,8 (8,0)
Rated crankshaft speed	C^{-1} (rpm)	7,33 (440)
Power demand	**kW**	**3,7**
Overall dimensions	mm	520 × 583 × 465
Weight	kg	130

Electrically driven air compressor EK 4V-M

Designation	Compressed air feed of braking systems and pneumatic devices of trolley buses, tram cars and dredges
Compressor type	Single-stage horizontal two-cylinder compressor
Operation mode	Intermittent, with make time (MT) up to 50 % at duration of cycle about 10 min inclusively and nominal values of discharge pressure and crankshaft speed Compressor continuous running at nominal pressure is assumed for at most 15 min, but not more often than once within 2 hours
Notes	Exported as per order intake

Specifications		
Compressor drive		d.c.electric motors DK 410B, DK 410R
Supply voltage	V	550
Power demand	kW	2,7
Output	m^3/min	0,3
Rated delivery pressure (excessive)	MPa (kgf/cm^2)	0,8 (8,0)
Rated crankshaft speed	C^{-1} (rpm)	5,5 (340)
Overall dimensions	mm	938 × 628 × 465
Weight	kg	310

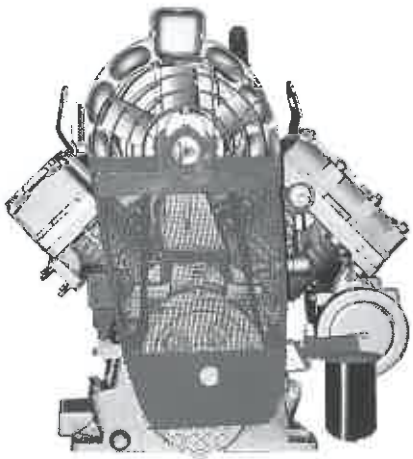
Electrically driven air compressor EK 7V



Designation	Compressed air feed of braking systems and pneumatic devices of electric trains
Compressor type	Single-stage horizontal two-cylinder compressor
Operation mode	Intermittent, with make time (MT) up to 50 % at duration of cycle about 10 min inclusively and nominal values of discharge pressure and crankshaft speed Compressor continuous running at nominal pressure is assumed for at most 15 min, but not more often than once within 2 hours
Notes	Exported as per order intake

Specifications		
Compressor drive		a.c. electric motor MAK 160 M6 №548
Supply voltage	V	220/380
Power demand	kW	4,7
Output	m^3/min	0,58
Rated delivery pressure (excessive)	MPa (kgf/cm^2)	0,8 (8,0)
Rated crankshaft speed	C^{-1} (rpm)	9 (540)
Overall dimensions	mm	949 × 704 × 438
Weight	kg	454

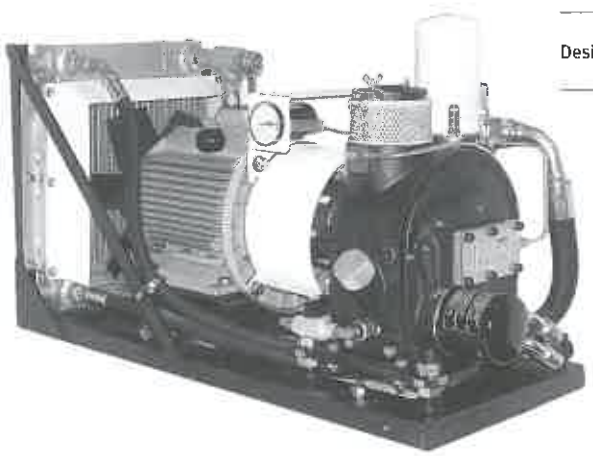
Compressor VU 3,5/10-1450



Designation	Compressed air feed of braking systems and pneumatic devices of railroad engines and other railway vehicles
Compressor type	Two-stage V-arrangement two-cylinder compressor
Operation mode	Intermittent, with make time (MT) up to 50 % at duration of cycle about 10 min inclusively and nominal values of discharge pressure and crankshaft speed Compressor continuous running at nominal pressure is assumed for at most 45 min, but not more often than once within 2 hours
Notes	Exported as per order intake

Specifications		
Output	m^3/min	3,5
Rated delivery pressure (excessive)	MPa (kgf/cm^2)	0,98 (10,0)
Rated crankshaft speed	C^{-1} (rpm)	24,16 (1450)
Power demand	kW	29,5
Overall dimensions	mm	666 × 904 × 972
Weight	kg	310

Screw compressor unit AKV 0,3/0,8 L U2



Designation	Compressed air feed of trolley bus pneumatic systems

Specifications		
Output	m³/min	0,32
Rated delivery pressure (excessive)	MPa (kgf/cm²)	0,8 (8,0)
Power demand	kW	5
Overall dimensions	mm	948 × 398 × 571
Weight arperata	kg	160

Screw compressor unit AKV 0,42/0,8 LU2

with air cleaning and drying unit (ACDU)

Designation	Compressed air feed of the subway car pneumatic system and replacement of electric compressor EK 4 BM

Specifications		
Output	m³/min	0,42
Rated delivery pressure (excessive)	MPa (kgf/cm²)	0,8 (8,2)
Drive electric motor power	kW	5,5
Overall dimensions	mm	960 × 752 × 677
Weight without ACDU	kg	240
ACDU weight	kg	40

Screw compressor unit AKV 0,75/0,8 LU1

with two-chamber air cleaning and drying unit BOSV 0,75/0,8

Designation	Compressed air feed of an electric train section pneumatic system, other vehicles and equipment

Specifications		
Output	m^3/min	0,75
Rated delivery pressure (excessive)	MPa (kgf/cm^2)	0,8 (8,2)
Drive electric motor power	kW	7,5
Overall dimensions	mm	1513 × 856 × 855
Weight	kg	400

Screw compressor unit AKV 1,7/1 P U2

Designation	Compressed air feed of railroad engine pneumatic systems
Notes	Manufactured as per TU 3184-032-05744521-2009

Specifications		
Output	m^3/min	1,7
Rated delivery pressure (excessive)	MPa (kgf/cm^2)	0,98 (10)
Electric motor power, not exceeding	kW	18,5
Overall dimensions	mm	1480 × 720 × 935
Weight	kg	650

Screw compressor unit AKV 4,5/1 P U2 M1

Designation	Compressed air feed of railroad engine pneumatic systems
Notes	Manufactured as per TU 3184-028-05744521-2009

Specifications		
Output	m^3/min	4,5
Rated delivery pressure (excessive)	MPa (kgf/cm^2)	0,98 (10)
Drive electric motor power	kW	37
Overall dimensions	mm	1742 × 842 × 1110
Weight	**kg**	**1100**

Screw-rotor compressor unit AKRV 3,2/10-1000 U2 M1

Designation	Compressed air feed of railroad engine pneumatic systems
Notes	Manufactured as per TU 3184-021-05744521-2009

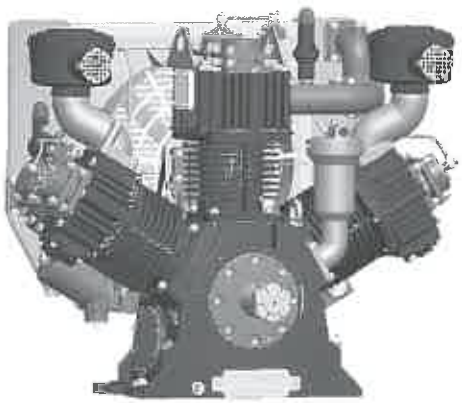
Specifications		
Output	m^3/min	3,2
Rated delivery pressure (excessive)	MPa (kgf/cm^2)	0,98 (10)
Power, not exceeding	kW	25
Overall dimensions	mm	1546 × 752 × 950
Weight	kg	750

Screw-rotor compressor unit AKRV 3,2/10-1000 U2 M2

Designation	Compressed air feed of railroad engine pneumatic systems
Notes	Manufactured as per TU 3184-033-05744521-2009

Specifications		
Output	m^3/min	3,2
Rated delivery pressure (excessive)	MPa (kgf/cm^2)	0,98 (10)
Drive electric motor power, not exceeding	kW	25
Overall dimensions	mm	1740 × 822 × 1010
Weight	**kg**	1000

Piston-type compressor KP 5,4/1 U2

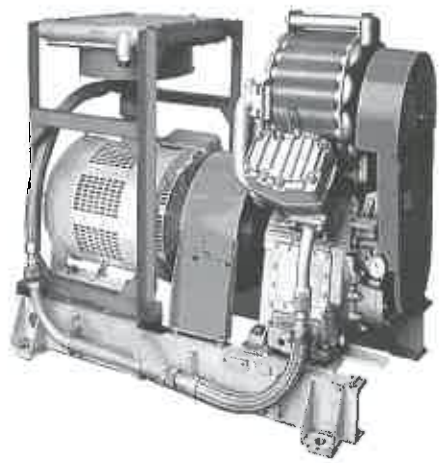


Designation	Used as a compressed air source on main-line, shunting, clean-up and industrial engines of railroad vehicles. Operable instead compressor KT-6
Compressor type	Two-stage, W-arrangement 60° angle three-cylinder compressor

Specifications		
Output	m^3/min	5,4
Rated delivery pressure (excessive)	MPa (kgf/cm^2)	0,98 (10)
Specific power consumption, not exceeding	kW	8,3
Rated crankshaft speed	C^{-1} (rpm)	14,167 (850)
Overall dimensions	mm	1316 × 770 × 1065
Weight	kg	690

Piston-type compressor unit AKP 3,5/1

with external end heat exchanger



Designation	Compressed air feed of braking systems and pneumatic devices of railroad engines and other railway vehicles
Compressor type	Two-stage V-arrangement two-cylinder compressor
Operation mode	Intermittent, with make time (MT) up to 50 % at duration of cycle about 10 min inclusively and nominal values of discharge pressure and crankshaft speed Compressor continuous running at nominal pressure is assumed for at most 45 min., but not more often than once within 2 hours

Specifications		
Output	m^3/min	3,5
Rated delivery pressure (excessive)	MPa (kgf/cm^2)	0,98 (10)
Power demand, not exceeding	kW	29,5
Overall dimensions	mm	1612 × 904 × 1300
Weight	kg	995

Screw compressor unit K70

Designation	Compressed air feed of electric engine and/or train collector bow lifting gears
Compressor type	Oil-free single-stage vertical one-cylinder compressor
Operation mode	Intermittent, with make time (MT) up to 50 %. Duration of cycle – up to 10 min

Specifications		
Output	m^3/min	0,05 ... 0,07
Delivery pressure	MPa (kgf/cm^2)	0,7 (7,0)
Rated crankshaft speed Compressora	rpm	1000 ... 1500
Power demand, not exceeding	KW	0,6 ... 0,95
Overall dimensions	mm	585 × 340 × 387

Compressed air cleaning and drying unit SPV 4.5/1 U2

Designation	Compressor discharged compressed air cleaning from oil vapor, moisture and mechanical impurities

Specifications		
Output	m^3/min	4,5
Rated delivery pressure (excessive)	MPa (kgf/cm^2)	0,98 (10)
Power demand, not exceeding	kW	15
Overall dimensions	mm	970 × 525 × 998,5
Weight	kg	360

Compressed air cleaning and drying unit BOSV 3,5/1 U2

Designation	Compressor discharged compressed air cleaning from oil vapor, moisture and mechanical impurities

Specifications		
Air flow through (depend on compressor output)	m^3/min	3,1 ... 3,5
Delivery pressure (exceeding)	MPa (kgf/cm^2)	0,98 (10)
Impurity level in discharge compressed air, not exceeding: - Solid particles - Oil - Liquid state moisture	mg/m^3	 4 10 inadmissible
Overall dimensions	mm	570 × 380 × 983
Weight	kg	105

Compressed air cleaning and drying unit BOSV 1,0/9 UKHL2 M3

Designation	Compressed air cleaning and drying from mineral oil, water and mechanical impurities before intake into pneumatic devices and systems of railroad vehicles
Особенности	Adsorption, one-adsorption, full-flow, with built-in first stage of clearing. Second stage of compressed air drying is provided for moisture absorption from air
Operation mode	Intermittent pursuant to operational mode of compressor

Specifications		
Drained airflow pursuant to compressor air intake conditions	m^3/min	(with electropneumatic valve) 1,0
Drained air operation pressure (excessive)	MPa (kgf/cm^2)	0,75 ... 0,9 (7,5 ... 9)
Degree of drying		Compressed air dew-point temperature at the air dryer outlet shall be no less than 5°C below the ambient air temperature
Air flow for reactivation of adsorbent – % of amount of dried air transient through the air dryer		12
Condensate dump valve		solenoid
Valve voltage	V	24
Valve action type		normally open
Overall dimensions	mm	282 × 245 × 570
Weight	kg	24

Suction pump 33081-3548010

Designation	Evacuation in diesel-engine car braking system's vacuum servo
Особенности	Rotary-vane single direct-action, motor vehicle engine V-belt - driven pump with the motor vehicle engine force lubrication system

Specifications		
Pump – generated depression	kPa (kgf/cm^2)	70 (0,7)
Rotor speed	V	24
Time of depression generation (capacity) from ambient pressure up to 70 kPa (0,7 kgf/cm2) at nominal pump shaft speed in an airtight 20+0,05 l capacity vessel	s	70
Overall dimensions	mm	160 × 120 × 160
Weight	kg	3,6

Compressed air cleaning and drying unit BO № 660

Designation	Compressed air cleaning and drying from mineral oil, water and mechanical impurities before intake into pneumatic devices and systems of railroad vehicles
Особенности	Adsorption, one-adsorption, full-flow, with built-in first stage of clearing. Second stage of compressed air drying is provided for moisture absorption from air

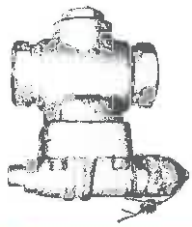
Specifications		
Drained airflow pursuant to compressor air intake conditions	m^3/min	0,5
Drained air operation pressure (excessive)	MPa (kgf/cm²)	0,4 ... 0,8 (4,0 ... 8,0)
Differential pressure	MPa (kgf/cm²)	0,015 (0,15)
Air drying degree		Compressed air dew-point temperature at the air dryer outlet shall be no less than 5OC below the ambient air temperature (Condensed moisture rain-out in the pneumatic system behind the is inadmissible)
Air degreasing degree, at least	%	90
Adsorbent reconditioning air consumption (against dried air volume)	%	10 ... 15
Solenoid valve operating pressure	MPa (kgf/cm²)	0 ... 1 (0 ... 10)
DC rated voltage	V	23 ... 30
Rated input	Vт	60
Overall dimensions	mm	720 × 195 × 420
Weight	kg	33

Idle run valves 527B, 527V

Designation	Automatic control of air compressor output
Features	Valve 527V consists of two independent units: valve 527B and controlling valve 525B
Notes	Manufactured as per OST 24.290.15-86

Specifications		
Operation opening pressure	MPa (kgf/cm²)	0,9±0,02 (9±0,2)
Operation closing pressure	MPa (kgf/cm²)	$0{,}75^{+0{,}04}$ ($7{,}5^{+0{,}4}$)
Cycle duration	c	30 ... 40
Duty frequency	%	50
Lockset heating temperature	°C	40 ... 60
527B(527V) overall dimensions	mm	196 × 183 × 80 (220 × 205 × 80)
527B(527V) weight	kg	5,71 (6,41)

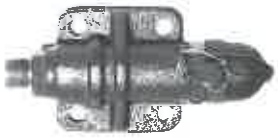
Idle run valves 541, 545



Designation	Operation in the pneumatic system of track machines of railway transportation
Features	Valve 545 consists of two independent units: valve 541 and controlling valve 525B
Notes	Manufactured as per OST 24.290.15-86

Specifications		
Valve opening pressure	MPa (kgf/cm²)	0,8±0,02 (8±0,2)
Valve closing pressures range	MPa (kgf/cm²)	0,62 ... 0,68 (6,2 ... 6,8)
Duty frequency	%	50
Controlling valve heating temperature	°C	40 ... 60
541(545) overall dimensions	mm	130 × 151 × 80 (175 × 163 × 80)
541(545) weight	kg	2,78 (4,41)

Controlling valve 525B



Designation	Upward pressure control at pressure ratio 0,18-0,06 MPa
Notes	Manufactured as per OST 24.290.15-86

Specifications		
Opening pressure	MPa (kgf/cm²)	0,8 (8,0)
Closing pressures range	MPa (kgf/cm²)	0,62 ... 0,68 (6,2 ... 6,8)
Overall dimensions/weight	mm / kg	161 × 80 × 49 / 0,996

One-way valve E-175

Designation	Compressed air one-way blow
Use	In the pneumoequipment system of railroad engines and multiple-unit trains equipment
Notes	Manufactured as per TU 3184-518-05744521-2005

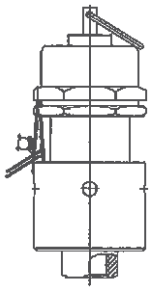
Specifications		
Operation pressure	MPa (kgf/cm²)	0,5 ... 1,0 (5 ... 10)
Mounting threads		G 1/2-V
Overall dimensions / Weight	mm / kg	76 × 53 × 97 / 0,98

One-way valves 526, 526.001

Designation	Compressed air one-way blow. Providing the compressor discharge from compressed air pressure in the main reservoir while the compressor stopped
Use	Railway vehicles equipped with compressors
Notes	Manufactured as per OST 24.290.15-86

Specifications		526	526.001
Operation pressure (opening)	MPa (kgf/cm²)	0,8±0,02 (8,0±0,2)	0,8±0,05 (8,0±0,5)
Overall dimensions	mm	195 × 100 × 100	126 × 108 × 108
Weight	kg	5,5	4,36

Safety valves 722



Designation	Mounted at receivers to prevent the receivers overpressure pressure
Use	Pneumatic systems of the braking equipment of railway, tube stocks and trams

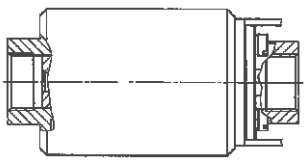
Specifications		722.000-01 Y3(4,0)-4	722.000-02 Y2(10,0)-4	722.000-03 Y2(9,0)-1	722.000-04 Y2(10,0)-1	722.000-05 Y2(11,0)-4,5
Opening pressure	MPa (kgf/cm²)	0,4 (4,2)	1,0 (10,2)	0,9 (0,92)	1,0 (10,2)	1,1 (11,3)
Closing pressure	MPa (kgf/cm²)	0,32 (3,4)	0,8 (8,2)	0,72 (0,74)	0,8 (8,2)	0,9 (9,2)
Weight	kg	1,6	1,6	1,4	1,4	1,6

Safety valves 2-1(216.00)/2-2(E-216.00)

Designation	Mounted at receivers to prevent the receivers overpressure pressure
Use	Railway, tube stocks and trams

Specifications		2-1	2-2
Opening pressure	MPa (kgf/cm²)	0,4±0,01 (4±0,1)	1,0±0,01 (10±0,1)
Closing pressure	MPa (kgf/cm²)	0,32 (3,2)	0,8 (8,0)
Overall dimensions	mm	199 × 72	
Weight	kg	2,04	2,115

Solenoid valves 735, 735-10, 771



Designation	Designed for bleeding of air preparation and condensate blowdown systems
Use	Railway and tube stocks
Features	Valve components touching with operating medium are of stainless steel
Notes	Manufactured as per TU 3184-029-05744521-2009

Specifications		735	735-10	771
Operation pressure	MPa	0 ... 10	0 ... 8	0 ... 10
Internal diameter	mm		8	
Power supply voltage	V	110^{+55}_{-33}	75^{+5}_{-10}	220^{+80}_{-70}
Valve type		Direct-action normally closed valve		
Ambient temperature	°C	-60 ... +80		
Operating medium		Air - at least contamination class 14 as per GOST 17433, water - at least cleanliness level 17 as per GOST 17216, oil admixed		
Overall dimensions, not exceeding	mm	136 × 68 × 68		136 × 80 × 80
Weight	kg	2,0		2,5

Air cleaner UF-2

Designation	Decontamination of air compressors and air-vapor pumps intake air
Notes	Manufactured as per TU 24-5-437-78

Specifications		
Air swallowing capacity	m^3/min	up to 3,5
Air cleaning degree	%	99
Mean operating time	years	12
Overall dimensions, height x diameter	mm	289 × 225
Weight	kg	8,6

Filter silencer EK7V.08.000-02

Designation	Decontamination of air compressors and air-vapor pumps intake air

Specifications		
Capacity of compressor with filter mounted	m^3/min	up to 1,0
Filtration capacity	mkm	40
Overall dimensions	mm	235 × 207 × 415
Weight	kg	7,0

Deaerating chamber E-120/T

Designation	Cleaning of railroad engine's air device systems compressed air from water, mineral oil and other foreign impurities
Notes	Manufactured as per TU 24-5-355-76

Specifications		
Cleaning degree, at least	%	70
Pressure (rated)	MPa (kgf/cm²)	1,0 (10)
Pressure differential	MPa (kgf/cm²)	0,06 (0,6)
Overall dimensions	mm	305 × 235
Weight	kg	16,9

Plug cock 4200

Designation	Braking devices on-off
Use	Railway, tube stocks and trams
Features	Cock is equipped with conical reseat plug
Notes	Manufactured as per TU 3184-516-05744521-2004

Specifications		
Operation pressure	MPa (kgf/cm²)	1 (10)
Internal diameter	mm	8
Mounting thread		G 1/4-B
Overall dimensions	mm	66 × 66 × 40
Weight	kg	0,45

T-bends 573, 573P

Designation	Bleeding of compressed air supplied from the air pipe to braking devices
Use	573 – freight locomotives and wagons 573P – passenger locomotives and wagons

Specifications		573	573П
Mounting thread - to air pipe - to braking devices	mm	G 1/4-B G 3/4-B	G 1/4-B G 1-B
Overall dimensions	mm	140 × 148 × 77	
Weight	kg	2,6	2,5

Valve bracket E-117

Designation	Spool supply valve 350 mounting on electric locomotives

Specifications		
Pump line mouth diameter		G 1/2 -B
Overall dimensions	mm	86 × 112 × 71
Weight	kg	1,5

Linkage bracket 1929

Designation	Linking with the brake lever mechanism's horizontal arm
Use	14 and 16 inch brake cylinders of all types of railroad stock

Specifications		
Pump line mouth diameter	mm	30
Overall dimensions	mm	196 × 210 × 76
Weight	kg	5,6

Brake equipment

The enterprise is a manufacturer of over 30 items of brake equipment to be used on railway vehicles and underground trains.

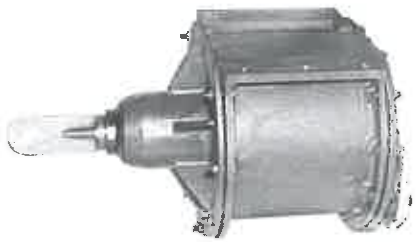
Contents

Air brake cylinders 188B, 508B, 511B, 519A

Designation	Providing force in the brake rigging
Use	188B – eight-wheel freight cars; 508B – light railway cars; 511B – industrial locomotives; 519A – six-wheel and sixteen-wheel freight wagons
Features	Cylinders are identical in design, but differ in sizes (see the Table). Cylinder casings, pistons, front and back covers are cast-iron. The rod is rigidly connected to the piston. The piston is equipped with a sealing rubber cup and a lubricant felt ring The front cover is provided with a mesh gauge filter. The back cover is provided with a capability of a lever actuation deadlock bracket installation
Notes	Manufactured as per GOST R 52392-2005

Specifications		188B	508B	511B	519A
Compressed air operation pressure	MPa (kgf/cm²)	up to 0,6 (6,0)			
Cylinder diameter	mm	356	254	203	400
Maximal piston stroke	mm	240			
Mounting thread		G 3/4-B			
Number of Ø18mm holes		6	4	4	6
Overall dimensions:	mm	778 × 450 × 424	760 × 322 × 306	760 × 271 × 254	778 × 476 × 466
Weight	kg	115	70,1	55,9	130

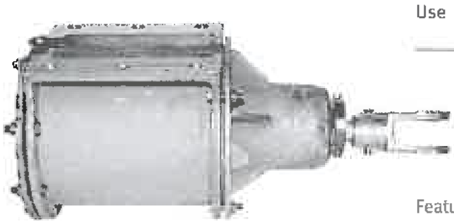
Air brake cylinder 501 B



Designation	Providing force in the brake rigging
Use	Passenger wagons, multiple-unit car
Features	Cylinder casing, piston, front and back covers are cast-iron. The rod is rigidly connected to the piston. The piston is equipped with a sealing rubber cup and a lubricant felt ring. The front cover is provided with a mesh gauge filter. The back cover is provided with a capability of a lever actuation deadlock bracket installation

Specifications		
Compressed air operation pressure	MPa (kgf/cm²)	up to 0,6 (6,0)
Cylinder diameter	mm	356
Maximal piston stroke	mm	240
Mounting thread		G 1-B
Overall dimensions	mm	847 × 453 × 474
Weight	kg	120

Air brake cylinders 502B, 507B, 510B



Designation	Providing force in the brake rigging
Use	502B and 507B – railway engines, 510B – multiple-unit cars
Features	Cylinder casings, pistons, front and back covers are cast-iron. The rod is self-aligning, pivotally connected to the piston. The piston is equipped with a sealing rubber cup and a lubricant felt ring. The front cover is provided with a mesh gauge filter. The back cover is provided with a capability of a lever actuation deadlock bracket installation
Notes	Manufactured as per GOST R 52392-2005

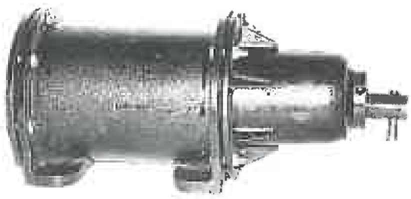
Specifications		502B	507B	510B
Compressed air operation pressure	MPa (kgf/cm²)		up to 0,6 (6,0)	
Cylinder diameter	mm	356	254	254
Maximal piston stroke	mm		240	
Mounting thread		G 3/4-B	G 1/2-B	G 3/4-B
Overall dimensions:	mm	780 × 450 × 419	748 × 322 × 306	876 × 322 × 306
Weight	kg	112,5	70	72,5

Air brake cylinder 503 B

Designation	Providing force in the brake rigging
Use	Diesel-locomotive shunter s and industrial diesel-electrics
Features	Cylinder casing, piston, front and back covers are cast-iron. The rod is self-aligning, pivotally connected to the piston. The piston is equipped with a sealing rubber cup and a lubricant felt ring. The front cover is provided with a mesh gauge filter

Specifications		
Compressed air operation pressure	MPa (kgf/cm²)	up to 0,6 (6,0)
Cylinder diameter	mm	330
Maximal piston stroke	mm	150
Mounting thread		G 3/4-B
Overall dimensions	mm	398 × 432 × 384
Weight	kg	75

Air brake cylinder 553



Designation	Providing force in the brake rigging
Use	Diesel-electrics
Features	Cylinder casing, piston, front and back covers are cast-iron. The rod is self-aligning, pivotally connected to the piston. The piston is equipped with a sealing rubber cup and a lubricant felt ring. The front cover is provided with a mesh gauge filter

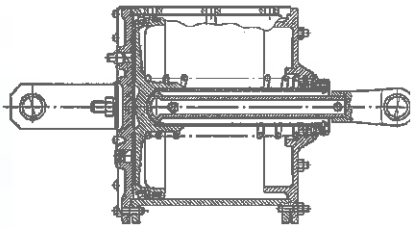
Specifications		
Compressed air operation pressure	MPa (kgf/cm^2)	up to 0,6 (6,0)
Cylinder diameter	mm	203
Maximal piston stroke	mm	240
Mounting thread		G 1/2-B
Overall dimensions	mm	635 × 274 × 256
Weight	kg	60

Air brake cylinder 578

Designation	Providing force in the brake rigging
Use	Electric train cars
Features	Cylinder casing, piston, front and back covers are cast-iron. The rod is self-aligning, pivotally connected to the piston. The piston is equipped with a sealing rubber cup and a lubricant felt ring. A capability is provided for a rod outreach adjuster air actuator connection to the casing The front cover is provided with a mesh gauge filter

Specifications		
Compressed air operation pressure	MPa (kgf/cm^2)	up to 0,6 (6,0)
Cylinder diameter	mm	254
Maximal piston stroke	mm	125
Mounting thread		G 1/2-B
Overall dimensions	mm	520 × 325 × 309
Weight	kg	60

Air brake cylinder 627



Designation	Providing force in the brake rigging
Use	Railway engines
Features	Cylinder casing, piston, front and back covers are cast-iron. The rod is self-aligning, pivotally connected to the piston. The piston is equipped with a sealing rubber cup and a lubricant felt ring. The front cover is provided with a mesh gauge filter. The back cover is provided with a capability of a lever actuation deadlock bracket installation
Notes	Manufactured as per GOST R 52392-2005

Specifications		
Compressed air operation pressure	MPa (kgf/cm²)	0,6 (6,0)
Cylinder diameter	mm	356
Maximal piston stroke	mm	190
Mounting thread		G 3/4-B
Overall dimensions	mm	800 × 424 × 453
Weight	kg	115

Cylinder 646

Designation	Opening and closing hatches
Use	Mineral-carrier wagons
Features	Cylinder casing, piston, front and back covers are cast-iron. The rod is rigidly connected to the piston. The piston is equipped with two sealing rubber cups and a lubricant felt ring
Notes	Manufactured as per TU 24.05.955-91

Specifications		
Compressed air operation pressure	MPa (kgf/cm²)	up to 0,6 (6,0)
Cylinder diameter	mm	356
Maximal piston stroke	mm	190
Mounting thread		G 3/4-B
Overall dimensions	mm	760 × 419 × 450
Weight	kg	146,5

Air brake cylinder 710

Designation	Providing force in the brake rigging
Use	Railway stock freight cars
Features	Cylinder casing, piston, front and back covers are cast-iron. The rod is rigidly connected to the piston. The piston is equipped with a sealing rubber cup and a lubricant felt ring. The front cover is provided with a mesh gauge filter
Notes	Manufactured as per TU 3184-515-05744521-04

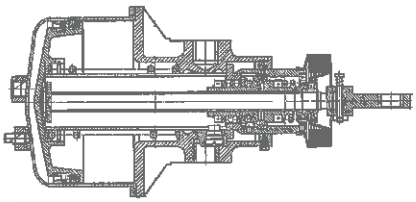
Specifications		
Compressed air operation pressure	MPa (kgf/cm²)	up to 0,6 (6,0)
Cylinder diameter	mm	254
Maximal piston stroke	mm	125
Mounting thread		G 3/4-B
Overall dimensions	mm	637 × 310 × 325
Weight	kg	60

Air brake cylinder with built-in adjuster TCR-10

Designation	Application of brake shoes to wage wheels treads and automatic adjust of the brake cylinder piston rode stroke within the extend to provide the fixed gap width between the brake shoes and wage wheels treads according to the threads wear
Use	Diesel-electrics

Specifications		
Compressed air operation pressure	MPa (kgf/cm²)	0,6 (6,0)
Cylinder diameter	mm	254
Piston stroke	mm	100
Maximal outreach of the screw in relation to the piston	mm	245
Screw operating force	kgf	2800
Overall dimensions	mm	646 × 300 × 302
Weight	kg	48

Air brake cylinder with built-in adjuster TCR-10-40-1



Designation	Providing force in shoe brakes and automatic adjust of the brake cylinder piston rode stroke within the extend to provide the fixed gap width between the brake shoes and wage wheels treads according to the threads wear
Use	Diesel-electrics

Specifications		
Compressed air operation pressure	MPa (kgf/cm²)	up to 0,6 (6,0)
Cylinder diameter	mm	254
Piston stroke, power/full	mm	40/80
Maximal outreach of the screw in relation to the piston	mm	245
Screw operating force	kgf	2800
Mounting thread		G 3/4-B
Overall dimensions	mm	640 × 296 × 296
Weight	kg	48

Air brake cylinder with built-in adjuster TCR-10-40S

Designation	Application of brake shoes to wage wheels treads and automatic adjust of the brake cylinder piston rode stroke within the extend to provide the fixed gap width between the brake shoes and wage wheels treads according to the threads wear
Use	Electric locomotives
Notes	Provided with a stopping brake to hold the wagon stopped

Specifications		
Compressed air operation pressure	MPa (kgf/cm²)	up to 0,6 (6,0)
Working cylinder diameter	mm	254
Stopping brake cylinder	mm	203
Piston stroke, power/full	mm	40/100
Maximal outreach of the screw in relation to the piston	mm	245
Screw operating force	kgf	2800
Mounting thread for: - working cylinder - stopping brake cylinder		 G 3/4-B G 3/4-B
Overall dimensions	mm	843 × 300 × 310
Weight	kg	74

Air brake cylinder with built-in adjuster TCR-10-85

Designation	Application of brake shoes to wage wheels treads and automatic adjust of the brake cylinder piston rode stroke within the extend to provide the fixed gap width between the brake shoes and wage wheels treads according to the threads wear
Use	Railway stock freight cars

Specifications		
Compressed air operation pressure	MPa (kgf/cm²)	up to 0,4 (4,0)
Cylinder diameter	mm	254
Piston stroke, power/full	mm	85/115
Maximal outreach of the screw in relation to the piston	mm	250
Screw operating force	kgf	1800
Mounting thread		G 3/4-B
Overall dimensions	mm	664 × 300 × 300
Weight	kg	45

Air brake cylinder with built-in adjuster 670

Designation	Providing force in disc brakes and automatic adjust of the brake cylinder piston rode stroke within the extend to provide the fixed gap width between the brake discs and linings according to the threads wear
Use	Brake gears of locomotive power passenger car trucks

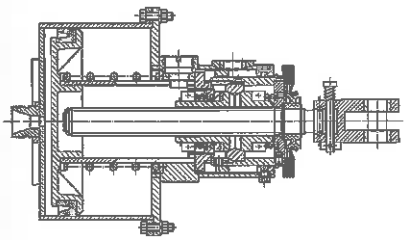
Specifications		
Compressed air operation pressure	MPa (kgf/cm²)	0,4 (4,0)
Cylinder diameter	mm	203
Piston stroke	mm	12
Maximal outreach of the screw in relation to the piston	mm	80
Screw operating force	kgf	1240
Overall dimensions	mm	345 × 275 × 248
Weight	kg	18

Air brake cylinder with built-in adjuster 670V

Designation	Providing braking power in brake shoes and automatic adjust of the brake cylinder piston rode stroke within the extend to provide the fixed gap width between the brake shoes and wage wheels treads according to the threads wear
Use	Brake gears of electrics locomotives

Specifications		
Compressed air operation pressure	MPa (kgf/cm²)	0,6 (6,0)
Cylinder diameter	mm	203
Piston driving stroke	mm	100
Maximal outreach of the screw	mm	245
Overall dimensions	mm	610 × 248 × 248
Weight	kg	37

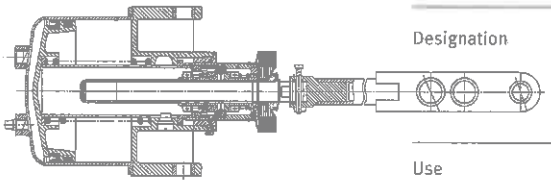
Air brake cylinder with built-in adjuster 670G



Designation	Providing brake power in disc brakes and automatic adjust of the brake cylinder piston rode stroke within the extend to provide the fixed gap width between the brake discs and linings according to their wear
Use	Locomotive power passenger cars equipped with disc brakes
Notes	Manufactured as per TU 3184-503-05744521-95

Specifications		
Compressed air operation pressure	MPa (kgf/cm²)	up to 0,4 (4,0)
Cylinder diameter	mm	203
Piston stroke - full - driving	mm	 45 12
Maximal outreach of the screw in relation to the piston	mm	140
Total screw and piston outreach	mm	152
Screw operating force	kgf	1220
Overall dimensions	mm	416 × 235 × 246
Weight	kg	21

Air brake cylinder with built-in adjuster TCR-10-20



Designation	Providing brake power in disc brakes and automatic adjust of the brake cylinder piston rode stroke within the extend to provide the fixed gap width between the brake shoes and wheel treads according to their wear
Use	Brake gears of freight cars

Specifications		
Cylinder diameter	mm	254
Adjuster screw outreach	mm	260
Piston driving stroke	mm	20
Operation pressure in cylinder	MPa(kgf/cm²)	0,4 (4,0)
Screw operating force	kgf	2800
Overall dimensions, length x height	mm	1266 × 300
Weight	kg	55

Brake unit, id.№729

Designation	Designed for passenger stock of the «Burevestnik» type high-speed trains equipped with solid steel brake discs

Specifications		
Brake cheeks pressure force, up to	kgf	4500
Brake cylinder diameter	mm	203
Brake system operation pressure	kgf/cm²	4,0
Piston driving stroke	mm	12
Unit weight	kg	110

Brake unit, id.№ 743

Designation	Designed for railway freight cars and platforms with running speeds up to 140 km/h. Modifications of the unit are designed for tube stock cars and passenger cars equipped with ventilated brake discs mounted on wheel set axles

Specifications		
Brake cheeks pressure force, up to	kgf	3700
Brake cylinder diameter	mm	203
Brake system operation pressure	kgf/cm²	4,0
Automatic adjuster screw outreach	mm	60
Unit weight	kg	115

Brake disc, id.№ 744

Designation	Designed for railway passenger and freight cars to be mounted on wheelset axles

Specifications		
Overall diameter	mm	630
Disk rim width	mm	80
Material		modified cast iron
Disc weight	kg	120

Brake unit, id.№ 740

Designation	Designed for locomotive power with running speeds up to 250 km/h. Modifications of the unit are designed for multiple-unit trains and passenger cars equipped with brake discs mounted on wheels

Specifications		
Brake cheeks pressure force, up to	kgf	4000
Brake cylinder diameter	mm	150
Brake system operation pressure	kgf/cm²	4,0
Automatic adjuster screw outreach	mm	60
Unit weight (with ASB)	kg	100 (115)

Brake disc, id.№ 740.900

Designation	Designed to be mounted on locomotive power wheels

Specifications		
Overall diameter	mm	1070
Assembly overall width	mm	140
Material		modified cast iron
Disc weight	kg	80

Compensating load brakes and automatic brake adjusters

The enterprise is a manufacturer of over 30 items of the kind to be used on railway vehicles and underground trains.

Section contents

Compensating load brakes 265A-4, 265A-5, 265B-1

Designation	Automatic change of compressed air pressure in the brake cylinder against the wagon loading
Use	265A-4: Railway freight stock 265A-5: Railway freight stock including light dead weight large-capacity railway freight stock 265B-1: Railway postal-baggage cars

Specifications

			265A-4		265A-5		265B-1
			Upstream pressure MPa(kgf/cm²)				
		gap, mm	0,3 (3)	0,42 (4,2)	0,32 (3,2)	0,42 (4,2)	0,4 (4)
Compensating load brake (CLB) downstream air pressure at preset CLB upstream air pressure and preset gap between the vibration damper stop and the shift selector pad.	MPa (kgf/cm²)	1,6	0,135 (1,35)	0,18 (1,8)	0,11 (1,1)	0,15 (1,5)	0,26 (2,6)
		16	0,195 (1,95)				0,4 (4,0)
		40	0,3 (3,0)	0,42 (4,2)	0,32 (3,2)	0,42 (4,2)	
		55	0,195(1,95)	0,195(1,95)		0,195(1,95)	
Vibration damper stop operating stroke, min	mm				40		
Move of the damping part's stop	mm		120		120		90
Overall dimensions	mm		288 × 206 × 423		283 × 206 × 423		286 × 206 × 385
Weight, not exceeding	kg		23		22		21

Compensating load brake with emergency contactor switch 605

Designation	Automatic change of compressed air pressure in the brake cylinder against the wagon loading
Use	Diesel-electric trains
Features	Valve-piston design
Notes	Manufactured as per TU 24.05.375-79

Specifications

Compressed air pressure in the brake cylinder at full braking		
- empty run - loaded run	MPa (kgf/cm²)	0,28 (2,8) 0,41 (4,1)
Stop operating stroke	mm	32 ... 38
Overall dimensions	mm	276 × 206 × 445
Weight	kg	21

Brake beams adjusters RTRP-675-M, RTRP-300

Designation	Automatic adjust of the brake cylinder piston rod stroke within the extend to provide the fixed gap width between wheel treads and brake shoes according to their wear
Use	Railway freight and passenger cars, mainline electrics
Notes	Manufactured as per TU 24.05.928-89

Specifications		RTRP-675-M	RTRP-300
Adjuster type		linkless one-way	
Brake beam contraction value - for a single braking, not exceeding - full	mm	7 ... 20 675	5 ... 10 300
Overall dimensions	mm	1739 × 90	998 × 90
Weight	kg	30	19

Coupling hosepipes

The enterprise is a manufacturer of over 30 items of the kind to be used on railway vehicles and underground trains.

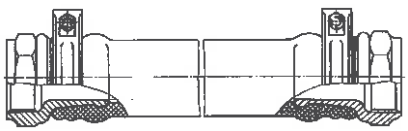
Section contents

Coupling hosepipes R11, R12, R13, R14, R17B

Designation	Provision of flexible releasable connection of railway stock associated units' brake pipes
Use	R11-railway stock equipped with G 1-V diameter brake pipes; R12 - locomotives and electric trains equipped with G 1-V diameter brake pipes; R13 - electric train and underground cars equipped with G 1-V diameter brake pipes; R14 - narrow gauge locomotives and cars equipped with G 1-V diameter brake pipes; R17B - locomotives, electric trains, diesel trains, freight and passenger cars
Features	Coupling hosepipes are manufactured as per GOST 2593-2009 and consist of GOST 1335-84 rubber tube, head, clips and GOST 38-72 sealing ring.

Specifications		R11	R12	R13	R14	R17B
Compressed air operation pressure	MPa (kgf/cm²)	up to 1,0 (10)				
Air flow section	mm	25	25	25	25	32
Hosepipe length	mm	759	909	449	599	759
Weight	kg	2,63	2,73	2,23	2,43	2,9

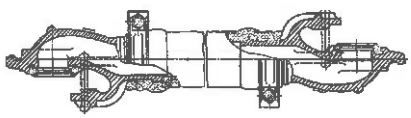
Coupling hosepipe R15



Designation	Provision of unreleasable connection of brake pipes.
Use	On locomotives for connection of the brake and supply main with the brake pipe of 1 inch pipe diameter
Features	Equipped with two G 1/4-V thread tips which are interconnected by 28 mm internal diameter and 630 mm length rubber hose

Specifications		
Compressed air operation pressure	MPa (kgf/cm²)	up to 1,0 (10)
Nominal diameter	mm	25
Hosepipe length	mm	675
Weight	kg	1,74

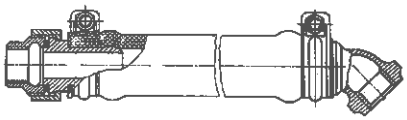
Coupling hosepipe R16



Designation	Provision of flexible releasable connection of railway stock associated units' brake pipes as an interagent
Use	Connection of supply mains of locomotives when they tow under the multiple-unit system
Features	Coupling hosepipe is manufactured as per GOST 2593-82 and consist of GOST 1335-84 rubber tube, two heads of type 16, GOST 2593-82clips and GOST 38-72 sealing rings

Specifications		
Compressed air operation pressure	MPa (kgf/cm²)	up to 1,0 (10)
Nominal diameter	mm	25
Hosepipe length	mm	847
Weight	kg	3,5

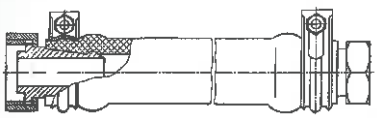
Coupling hosepipes R21, R23



Designation	Provision of flexible unreleasable connection of brake pipes
Use	Connection of the brake air pipe with brake cylinders of locomotives and electric trains; R23 - for connection of brake air pipes with current collectors of electric locomotives and electric trains
Features	Coupling hosepipes are equipped with two tips having the following threads: R21 - G 1/2-V, R23 - G-3/4-V, which are interconnected by 25 mm internal diameter and R21 - 610 mm, R23 - 900 mm length rubber hose

Specifications		R21	R23
Compressed air operation pressure	MPa (kgf/cm²)	up to 1,0 (10)	
Nominal diameter	mm	19	
Hosepipe length	mm	700	995
Weight	kg	1,85	1,96

Coupling hosepipe R31



Designation	Provision of flexible unreleasable connection of brake pipe
Use	Tube stock for connection of the brake main to the automatic train stop
Features	Equipped with two G 1/4-V thread tips which are interconnected by 28 mm internal diameter and 780 mm length rubber hose

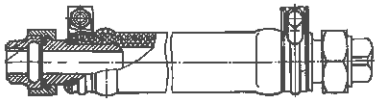
Specifications		
Compressed air operation pressure	MPa (kgf/cm²)	up to 1,0 (10)
Nominal diameter	mm	25
Overall dimensions	mm	825
Weight	kg	1,93

Coupling hosepipe R32

Designation	Provision of flexible unreleasable connection of brake pipes
Use	Underground transit vehicles to connect the brake pipe between the car truck and car body
Features	Equipped with two G 3/4-V thread tips which are interconnected by 25 mm internal diameter and 800 mm length rubber hose

Specifications		
Compressed air operation pressure	MPa (kgf/cm²)	up to 1,0 (10)
Nominal diameter	mm	19
Hosepipe length	mm	880
Weight	kg	1,95

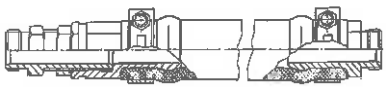
Coupling hosepipe R34



Designation	Provision of flexible unreleasable connection of brake pipes
Use	Underground transit vehicles to connect the brake air main to the service tank
Features	Equipped with two G 1/2-V thread tips which are interconnected by 25 mm internal diameter and 800 mm length rubber hose

Specifications		
Compressed air operation pressure	MPa (kgf/cm²)	up to 1,0 (10)
Air flow section	mm	19
Overall dimensions	mm	885
Weight	kg	1,8

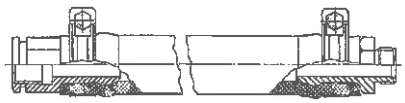
Coupling hosepipes R36A, R36B



Designation	Connection of the brake main with the brake control valve
Use	Railway stock freight cars
Features	R36A and R36B hosepipes consist of GOST 1335-84 rubber tube, clips, tips, cap nut and hose bibb. Manufactured as per TU 3184-501-05744521-94

Specifications		R36A	R36B
Compressed air operation pressure	MPa (kgf/cm²)	up to 1 (10)	
Nominal diameter	mm	16	
Operating temperature range	°C	-55 ... +80	
Hosepipe length	mm	588	1153

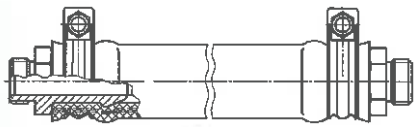
Coupling hosepipe R36V



Designation	Connection of the brake main with the brake control valve
Use	Railway stock freight cars
Features	Consists of GOST 1335-84 rubber tube, 41 mm diameter clips, tips. Manufactured as per TU 3184-501-05744521-94

Specifications		
Compressed air operation pressure	MPa (kgf/cm²)	up to 1 (10)
Nominal diameter	mm	16
Hosepipe length	mm	525

Coupling hosepipe R36G



Designation	Connection of the brake main with the brake control valve
Use	Railway stock freight cars
Features	Consists of GOST 1335-84 rubber tube, 41 mm diameter clips, tips

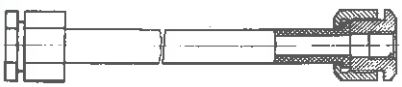
Specifications		
Compressed air operation pressure	MPa (kgf/cm²)	up to 1,0 (10)
Nominal diameter	mm	16
Hosepipe length	mm	700

Coupling hosepipe with electric connection 369 A

Designation	Provision of flexible unreleasable connection of air pipes and electric circuits of the electropneumatic brake
Use	Locomotives and railway cars equipped with electropneumatic brake under two-wire circuit

Specifications		
Compressed air operation pressure	MPa (kgf/cm²)	up to 1,0 (10)
Nominal diameter	mm	32
Operating voltage	V	50
Hosepipe length	mm	759
Weight	kg	4,15

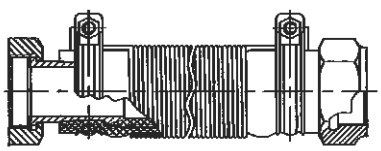
Coupling hosepipe R40



Designation	Provision of flexible unreleasable connection of the brake pipe with the current collector
Use	Electric locomotives and electric train cars
Features	Equipped with swivel nut, G 1/2-V thread hose fitting and 25 mm diameter and 1010 mm length polyethylene tube

Specifications		
Compressed air operation pressure	MPa (kgf/cm²)	up to 0,8 (8,0)
Nominal diameter	mm	16
Hosepipe length	mm	1064
Weight	kg	1,2

Coupling hosepipe 747



Designation	Connection of the air pipe with the jointed platforms' brake main
Use	Railway stock freight cars
Описание	Consists of GOST 1335-84 rubber tube, 49 mm diameter clips, tips, swivel nuts and cover

Specifications		
Compressed air operation pressure	MPa (kgf/cm²)	up to 1,0 (10)
Nominal diameter	mm	32
Hosepipe length	mm	950

Hydraulic vibration dampers

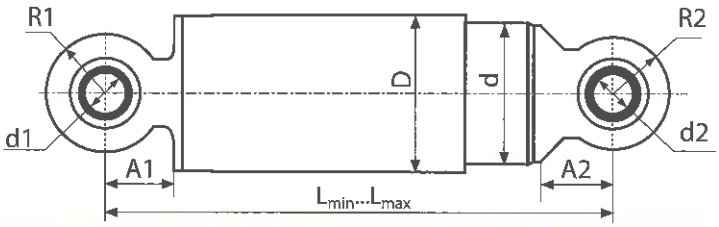
JSC «Transpnevmatika» affords manufacturing of hydraulic vibration dampers with any type of supports and characteristics under additional agreement with the consumer.

Section contents

Hydraulic Vibration Dampers

Designation

Designed for installing into the railway stock's spring equalizing system to provide standard performance of a railway car riding comfort and exposure to the railtrack



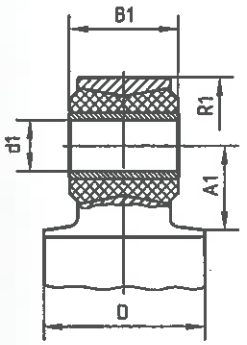
Geometrics

Designation	Support type	Lmin	Lmax	D	d	A1	A2	d1	d2	R1	R2	B1	B2
677.000	Pic. 10	430	680	120	108	52,5	36	32	32	42	42	38	38
677.000-01	Pic. 10	370	560	120	108	52,5	36	32	32	42	42	38	38
677.000-02	Pic. 10	580	980	120	108	52,5	36	32	32	42	42	38	38
677.000-03	Pic. 10	370	560	120	108	52,5	36	32	32	42	42	38	38
678.000	Pic. 4	333	483	see Pic. 4									
678.000-01	Pic. 4	373	563	see Pic. 4									
678.000-02	Pic. 5	308	448	see Pic. 5									
679.000	Pic. 3	370	560	120	108	51	50	32	32	40	40	92	92
679.000-01	Pic. 3	370	560	120	108	51	50	32	32	40	40	92	92
680.000	Pic. 3	340	500	120	108	51	50	32	32	40	40	92	92
680.000-01	Pic. 3	340	500	120	108	51	50	32	32	40	40	92	92
681.000	Pic. 2	370	560	120	108	52,5	36	35	35	42	42	38	38
681.000-01	Pic. 1	305	430	110	100	51	50	30	30	40	40	65	65
681.000-02	Pic. 3	340	500	110	100	51	50	30	30	40	40	75	75
682.000-01	Pic. 3	290	400	120	108	51	50	32	32	40	40	65	65
695.000	Pic. 6	320	460	110	100	51	50	32	32	40	40	75	75
695.000-01	Pic. 6	370	560	110	100	51	50	32	32	40	40	75	75
697.000	Pic. 2	320	460	110	100	52,5	53	35	35	36	36	35	35
697.000-01	Pic. 2	355	530	110	100	52,5	53	35	35	36	36	35	35
697.000-02	Pic. 7	320	460	110	100	52,5	50	35	30	36	40	35	75
698.000	Pic. 8	475	765	see Pic. 8									
698.000-01	Pic. 8	475	765	see Pic. 8									
698.000-02	Pic. 8	525	865	see Pic. 8									
698.000-08	Pic.2	332	472	120	108	55	42	40	40	45	45	42	42
698.000-09	Pic.13	367	542	see Pic. 13									
698.000-10	Pic.13	302	412	see Pic. 13									
698.000-11	Pic.13	442	692	see Pic. 13									
699.000	Pic. 9	325	500	see Pic. 9									
700.000	Pic.12	360	549	see Pic. 12									
700.000-01	Pic.12	360	549	see Pic. 12									
719.000-01	Pic.11	419	629	see Pic. 11									

Specifications

Designation	Code designation	Code designation as per GOST 52279	Support type	Piston stroke, mm	Operation mode	Reference piston speed, m/s	Resistance force, kN: tension	Resistance force, kN: contraction	Flowchart diagram area (power capacity) at maximal reference speed, J	Applicability
677.000	677	DVL-250-15/15-0,02-20/20-0,3	Pic. 10	250	Valve Valve	0,02±0,003 0,30±0,015	15±3,0 20±4,0	15±3,0 20±4,0	1800±360	EP1, EP10
677.000-01	677-1	C-190-11/11-0,06-20/20-0,3	Pic. 10	190	Partial Valve	0,06±0,003 0,30±0,015	11±2,0 20±3,0	11±2,0 20±3,0	1850±370	EP1, EP10, 2ES5K
677.000-02	677-2	DVL-400-15/15-0,02-20/20-0,3	Pic. 10	400	Valve Valve	0,02±0,003 0,30±0,015	15±3,0 20±4,0	15±3,0 20±4,0	1800±360	EP10
677.000-03	677-3	CV-190-7,8/7,8-0,06-20/20-0,3	Pic. 10	190	Partial Valve	0,06±0,003 0,30±0,015	7,8±1,0 20±3,0	7,8±1,0 20±3,0	1850±370	EP1, EP10, 2ES5K
678.000	678	BV-150-5,7/3,9-0,06-17/17-0,6	Pic. 4	150	Partial Valve	0,06±0,003 0,60±0,030	5,7±1,0 17±3,4	3,9±0,7 17±3,4	1450±290	EP1, EP10, 2ES5K
678.000-01	678-1	BV-190-5,7/3,9-0,06-17/17-0,6	Pic. 4	190	Partial Valve	0,06±0,003 0,60±0,030	5,7±1,0 17±3,4	3,9±0,7 17±3,4	1450±290	Diesel train (Lyudinovo)
678.000-02	678-2	BV-140-5,7/3,9-0,06-17/17-0,6	Pic. 5	140	Partial Valve	0,06±0,003 0,60±0,030	5,7±1,0 17±3,4	3,9±0,7 17±3,4	1450±290	VL-65
679.000	679	CV-190-6,3/6,3-0,06-15/15-0,3	Pic. 3	190	Partial Valve	0,06±0,003 0,30±0,015	6,3±1,0 15±3,0	6,3±1,0 15±3,0	1300±260	Electrical train passenger cars, VL-80, 85
679.000-01	679-1	CV-190-6/6-0,06-9/9-0,3	Pic. 3	190	Partial Valve	0,06±0,003 0,30±0,015	6±1,0 9±1,5	6±1,0 9±1,5	770±154	EM4 «Sputnik»
680.000	680	BV-160-5/5-0,06-19,5/19,5-0,6	Pic. 3	160	Partial Valve	0,06±0,003 0,60±0,030	5±1,0 19,5±3,9	5±1,0 19,5±3,9	1650±330	Diesel train (Lyudinovo)
680.000-01	**680-1**	**BV-160-2/2-0,06-10,5/10,5-0,6**	**Pic. 3**	**160**	**Partial Valve**	**0,06±0,003 0,60±0,030**	**2±0,5 10,5±2,1**	**2±0,5 10,5±2,1**	**900±180**	**Atomobile railway cars AS4MU** (Lyudinovo)
681.000	681	CV-190-7,8/7,8-0,06-21,5/21,5-0,3	Pic. 2	190	Partial Valve	0,06±0,003 0,30±0,015	7,8±1,0 21,5±3,5	7,8±1,0 21,5±3,5	1900±380	CHS-4 (VNITI)
681.000-01	681-1	BV-125-3,8/3,8-0,06-13/13-0,6	Pic. 1	125	Partial Valve	0,06±0,003 0,60±0,030	3,8±0,7 13±2,5	3,8±0,7 13±2,5	1120±224	CHS-4
681.000-02	681-2	BV-160-3/3-0,06-10/10-0,6	Pic.3	160	Partial Valve	0,06±0,003 0,60±0,030	3±0,5 10±2,0	3±0,5 10±2,0	810±162	CHME3
682.000-01	682-1	BV-110-3,5/3,5-0,06-15/15-0,6	Pic. 3	110	Partial Valve	0,06±0,003 0,60±0,030	3,5±0,5 15±3,0	3,5±0,5 15±3,0	1300±260	AMD-3, AM-3
695.000	695	C-140-6/6-0,06-10,5/10,5-0,3	Pic. 6	140	Partial Valve	0,06±0,003 0,30±0,015	6±0,9 10,5±2,0	6±0,9 10,5±2,0	900±180	ACH2
695.000-01	695-1	CV-190-4/4-0,06-10,5/10,5-0,3	Pic. 6	190	Partial Valve	0,06±0,003 0,30±0,015	4±1,0 10,5±2,0	4±1,0 10,5±2,0	900±180	ACH2
697.000	697	CV-140-7/7-0,06-15/15-0,3	Pic. 2	140	Partial Valve	0,06±0,003 0,30±0,015	7±1,0 15±3,0	7±1,0 15±3,0	1300±260	CHS7, CHS8
697.000-01	697-1	DVL-175-3,5/3,5-0,06-10/10-0,3	Pic.2	175	Partial Valve	0,06±0,003 0,30±0,015	3,5±0,5 10±2,0	3,5±0,5 10±2,0	850±170	CHS7, CHS8
697.000-02	**697-2**	**BV-140-4/4-0,06-11/11-0,6**	**Pic. 7**	**140**	**Partial Valve**	**0,06±0,003 0,60±0,030**	**4±0,6 11±2,2**	**4±0,6 11±2,2**	**950±190**	**CHS7, CHS8**
698.000	698	CV-290-5/5-0,06-18/18-0,3	Pic.8	290	Partial Valve	0,06±0,003 0,30±0,015	5±1,0 18±3,5	5±1,0 18±3,5	1550±310	ED-6
698.000-01	698-1	C-290-2/2-0,06-5,5/5,5-0,3	Pic. 8	290	Partial Valve	0,06±0,003 0,30±0,015	2,0±0,5 5,5±1,1	2,0±0,5 5,5±1,1	470±94	ED-6
698.000-02	698-2	DVL-340-15/15-0,06-19/19-0,3	Pic. 8	340	Valve Valve	0,06±0,003 0,30±0,015	15±2,5 19±3,8	15±2,5 19±3,8	1600±320	ED-6
698.000-08	698-8	DVL-140-15/15-0,02-20/20-0,3	Pic. 2	140	Valve Valve	0,02±0,003 0,30±0,015	15±3,0 20±4,0	15±3,0 20±4,0	1800±360	2TE25A
698.000-09	698-9	C-175-7,8/7,8-0,06-20/20-0,3	Pic.13	175	Partial Valve	0,06±0,003 0,30±0,015	7,8±1,0 20±3,0	7,8±1,0 20±3,0	1850±370	2TE25A, 2ES6
698.000-10	698-10	C-110-7,8/7,8-0,06-20/20-0,3	Pic.13	110	Partial Valve	0,06±0,003 0,30±0,015	7,8±1,0 20±3,0	7,8±1,0 20±3,0	1850±370	2ES6
698.000-11	698-11	DVL-250-15/15-0,02-20/20-0,3	Pic.13	250	Valve Valve	0,02±0,003 0,30±0,015	15±3,0 20±4,0	15±3,0 20±4,0	1800±360	2ES6
699.000	699	BV-175-3,25/3,25-0,075-11,7/11,7-0,6	Pic. 9	175	Partial Valve	0,075±0,004 0,60±0,030	3,25±0,5 11,7±1,8	3,25±0,5 11,7±1,8	1000±200	TEP70BC, TEP70U, 2TE70, EP2K
700.000	**700**	-	**Pic.12**	**189**	**Partial Valve**	**0,20±0,02 0,60±0,02**	**2,2±0,8 8,1±1,5**	**2,3±0,8 8,8±1,5**	-	**Means of conveyance,** tracked vehicles
700.000-01	700-01	-	Pic.12	189	Partial Valve	0,20±0,02 0,60±0,02	1,4±0,4 5,4±1,0	1,5±0,5 5,9±1,0		**Means of** conveyance
719.000-01	719-1	C-210-10/10-0,125-16,5/16,5-0,3	Pic.11	210	Partial Valve	0,125±0,005 0,30±0,015	10±1,5 16,5±2,5	10±1,5 16,5±2,5	1420±284	TEP70BC, TEP70U, 2TE70, EP2K

Upper



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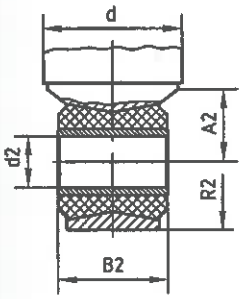
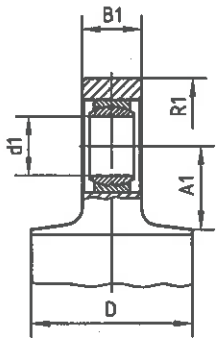


Pic. 1

Upper



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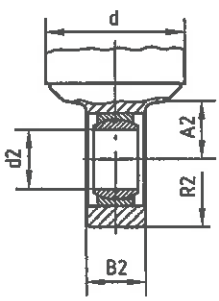
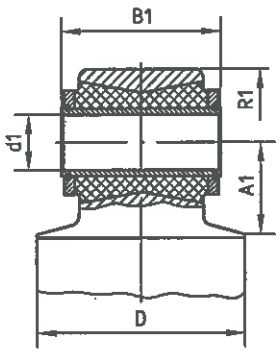


Pic. 2

Upper



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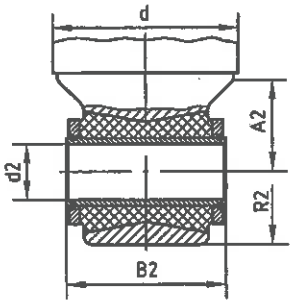
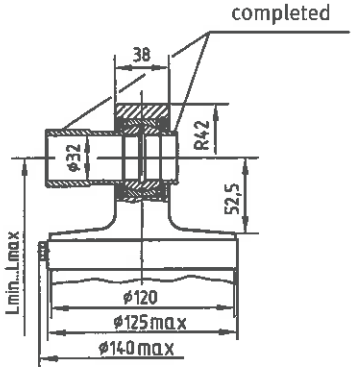


Pic. 3

Upper

Supplied completed



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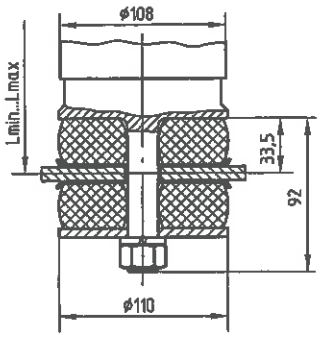
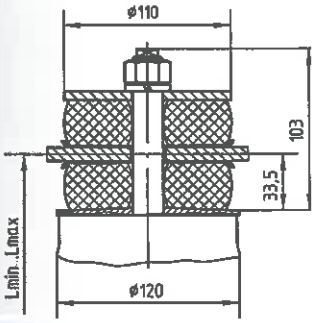


Pic. 4

Upper



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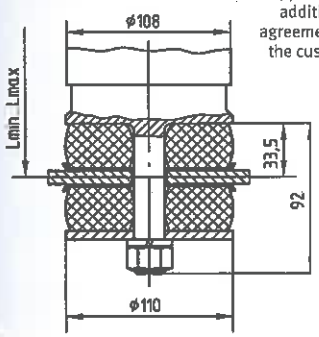
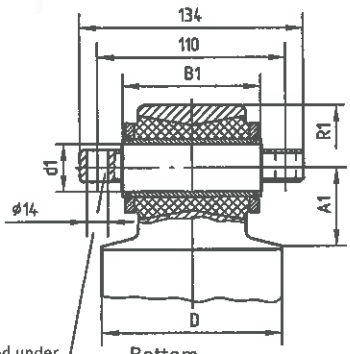


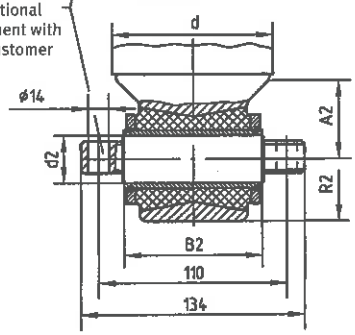
Pic. 5

Upper



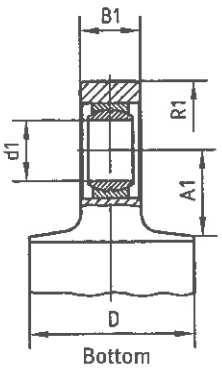
Supplied under additional agreement with the customer

Bottom



Pic. 6

Upper



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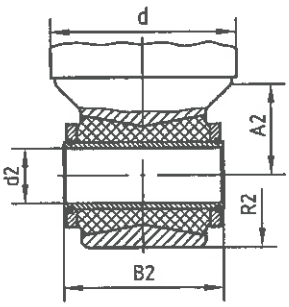
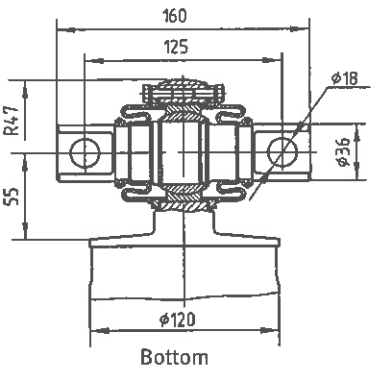


Pic. 7

Upper



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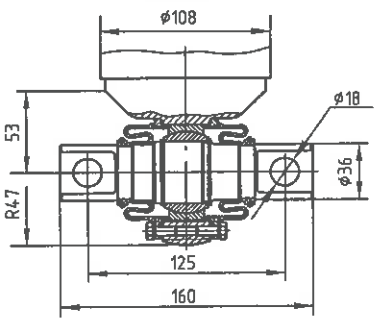
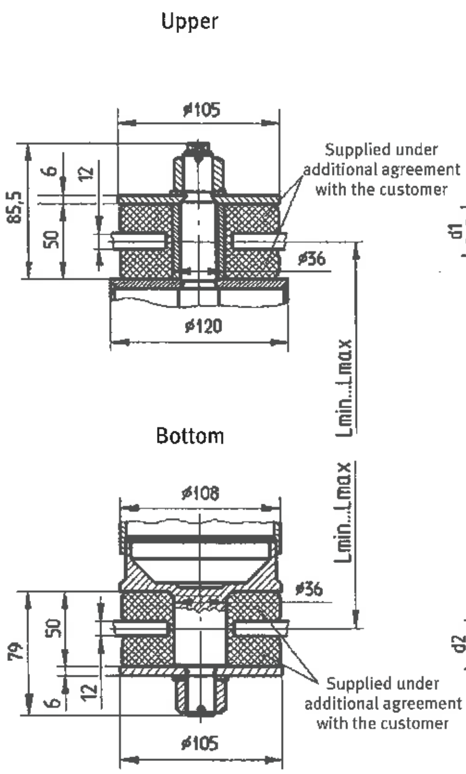
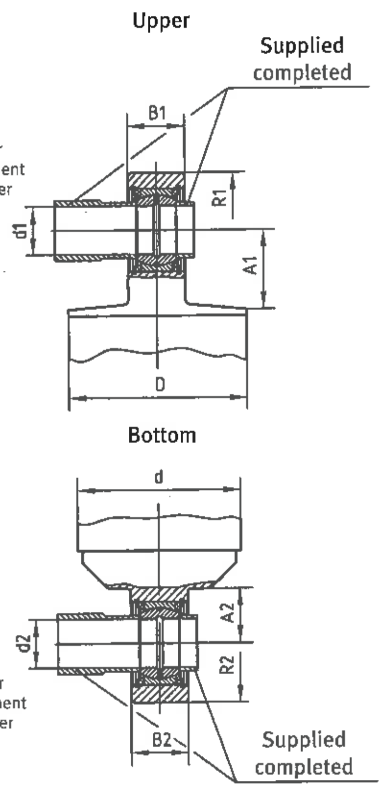


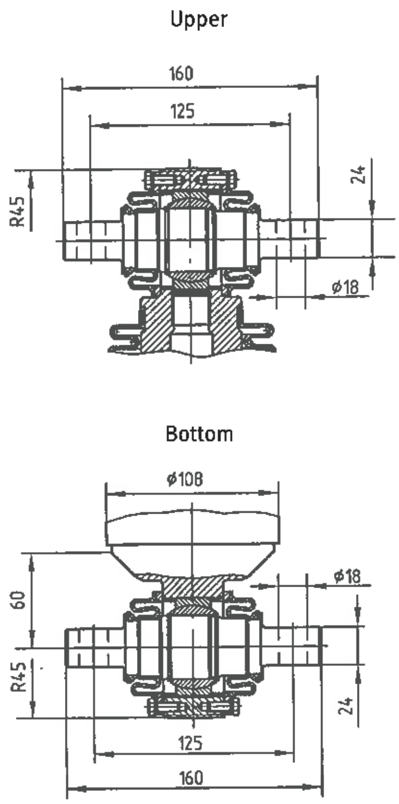
Pic. 8



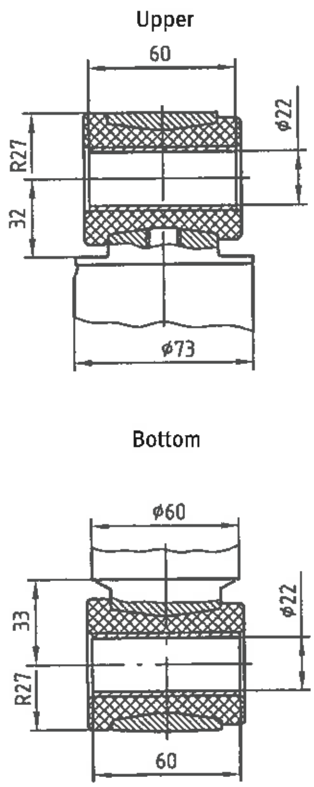
Pic. 9



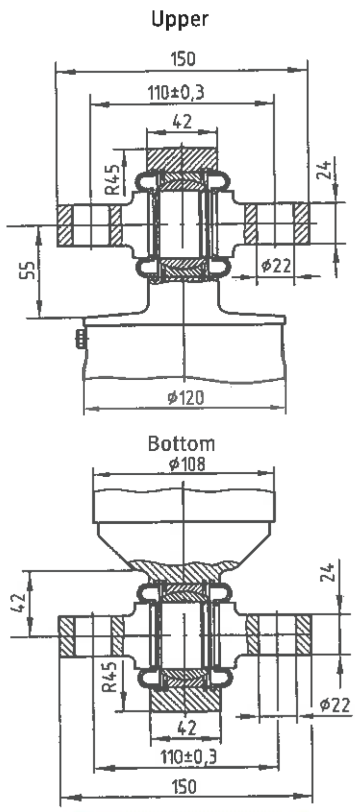
Pic. 10



Pic. 11



Pic. 12



Pic. 13

Hydraulic vibration dampers

Automatic pneutronic stands and workstations

Automatic pneutronic stands and workstations are designed for railway freight cars brake equipment maintenance and testing.

Section contents

Compensating load brakes test stand SPA-746

Designation	Compensating load brakes 265, 265A, 265A-1, 265A-4 testing for compliance to requirements of TU 3184-509-05744521-98 and repair documentation in conditions of a railroad car-maintenance enterprise

Specifications			
Operating pressure of the pneumatic system with air cleanness not below than class 6 in accordance with GOST 17433-80, *at least*	MPa (kgf/cm²)	**0,6 (6,0)**	
Admitted pressure absolute measuring accuracy	MPa (kgf/cm²)	±0,005 (±0,05)	
Range of time interval formed	с	1 ... 600	
Brake reservoir capacity (BRC)	л	12,0 ± 0,3	
Pressure selector brake reservoir capacity (PSR)	л	24,0 ± 0,6	
Rod stroke of two-position pneumocylinder of compensating load brake from the initial position (position «0»):		CLB	
		265, 265A, 265A - 1	265A - 4
- in position «1»	mm	14 ± 0,5	16 ± 0,5
- in position «2»	mm	28 ± 0,5	40 ± 0,5
Stand electric supply	V/Гц	220±10% / 50±0,4	
Stand power consumption, *not exceeding*	Vт	250	
Overall dimensions	mm	850 × 650 × 1500	
Air consuming under normal conditions, *not exceeding*	л/ч	750	
Weight	kg	300	

Automatic brake adjusters test stand SPR-748

Designation	Automatic brake adjusters RTRP-300, RTRP-675M и RTRP-574B testing for compliance to requirements of TU 24.05.928-89, TU 24.5.264-77 and repair documentation in conditions of a railroad car-maintenance enterprise

Specifications		
Operating pressure of the pneumatic system with air cleanness not below than class 6 in accordance with GOST 17433-80, *at least*	MPa (kgf/cm²)	**0,6 (6,0)**
Admitted pressure absolute measuring accuracy	MPa (kgf/cm²)	±0,005 (±0,05)
Admitted absolute error of linear movements measuring	mm	±0,5
Range of time interval formed	s	1 ... 600
Receiver capacity (P1)	l	12
Stand electric supply	V/Hz	220±10% / 50±0,4
Power demand стенда, not exceeding	Vт	250
Overall dimensions	mm	4000 × 450 × 1350
Air consuming under normal conditions, *not exceeding*	l/h	7200
Weight	kg	850

End train pipe valves and releasing valves repair and test workstation RMRK-757

Designation	End train pipe valves R190, 4304, 4304M, 4314, 4314Б OST 24.029.01, TU 24.05.05.054, TU 3184-014-10785350 and releasing valve TU 3184-003-10785350 testing for compliance to requirements of TU 3184-531-05744521 and repair documentation in conditions of a railroad car-maintenance enterprise

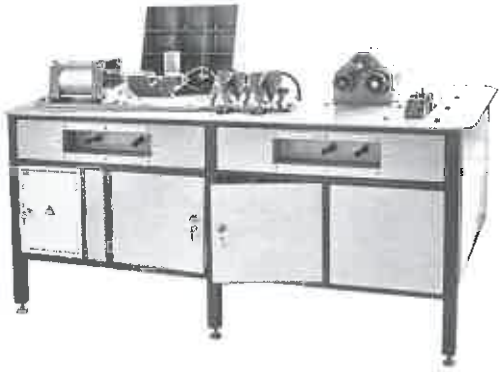
Specifications		
Operating pressure of the pneumatic system with air cleanness not below than class 6 in accordance with GOST 17433-80, *at least*	MPa (kgf/cm²)	0,6 (6,0)
Admitted pressure absolute measuring accuracy	MPa (kgf/cm²)	±0,005 (±0,05)
Range of time interval formed	s	1 ... 300
Receiver capacity (P1)	l	5
Stand electric supply	V/Hz	220±10% / 50±0,4
Stand power consumption, *not exceeding*	kW	1,2
Overall dimensions	mm	2840×1000×1320
Air consuming under normal conditions, *not exceeding*	l/h	280
Weight	kg	700

Air brake cylinders tester SPTC-761

Designation	Air brake cylinders 188B, 519A, 710 testing for compliance to requirements of GOST 31402-2009 and repair documentation in conditions of a railroad car-maintenance enterprise

Specifications		
Operating pressure of the pneumatic system with air cleanness not below than class 6 in accordance with GOST 17433-80, *at least*	MPa (kgf/cm²)	0,6 (6,0)
Admitted pressure absolute measuring accuracy	MPa (kgf/cm²)	±0,005 (±0,05)
Rod travel measuring range	mm	1 ... 300
Travel accuracy precision	%	2
Stand electric supply	V/Hz	220±10% / 50±0,4
Stand power consumption, *not exceeding*	kW	1,2
Overall dimensions	mm	1700×750×1400
Air consuming under normal conditions, *not exceeding*	l/h	3500
Weight	kg	700

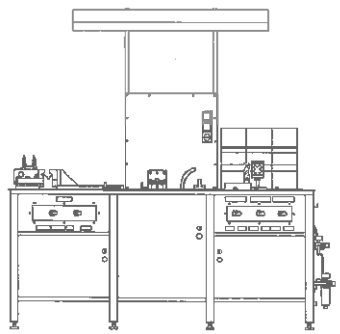
Coupling hosepipes test stand 7871-4600



Designation	Coupling hosepipes R17B (GOST 2593) and R36A, R36B, R36V, R36G (TU 3184- 501-05744521) testing for compliance to requirements GOST 2593-82

Specifications		
Operating pressure of the pneumatic system with air cleanness not below than class 6 in accordance with GOST 17433-80, *at least*	MPa (kgf/cm²)	0,6 (6,0)
Admitted pressure absolute measuring accuracy	MPa (kgf/cm²)	±0,005 (±0,05)
Water pressure measuring range	MPa (kgf/cm²)	0 ... 1,2±0,02 (0 ... 12±0,2)
Range of time interval formed	s	1 ... 600
Time intervals measuring admitted relative error range	%	0,25
Bath working volume	l	26,0 ± 0,5
Capacity working volume	l	62,0 ± 1
Stand electric supply	V/Hz	220±10% / 50±0,4
Stand power consumption, *not exceeding*	kW	1
Overall dimensions	mm	2000 × 600 × 1400
Weight	kg	400

Automatic brake adjusters repair workstation 7879-4887



Designation	Automatic brake adjusters 574B, RTRP-675, RTRP-675-M, RTRP 300 repair in conditions of a railroad car-maintenance enterprise pursuant to requirements of repair manuals 610-CV-2008 RD, R 002 PKB CV-97 RK, R 019 PKB CV-2008 RK

Specifications		
Operating pressure of the pneumatic system with air cleanness not below than class 6 in accordance with GOST 17433-80, *at least*	MPa (kgf/cm²)	0,6 (6,0)
Overall dimensions	mm	2200 × 1000 × 2200
Weight	kg	600

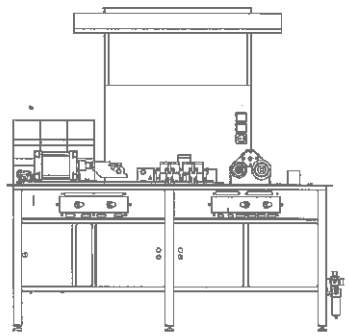
Compensating load brakes repair workstation 7879-4888

Designation	Compensating load brakes 265, 265A, 265A-1, 265A-4 repair pursuant to requirements of repair manuals R 005 PKB CV-2000 RK, R 017 PKB CV-2008 RK

Specifications

Operating pressure of the pneumatic system with air cleanness not below than class 6 in accordance with GOST 17433-80, *at least*	MPa (kgf/cm²)	0,6 (6,0)
Overall dimensions	mm	2100 × 1000 × 2200
Weight	kg	250

Coupling hosepipes repair workstation 7879-4890

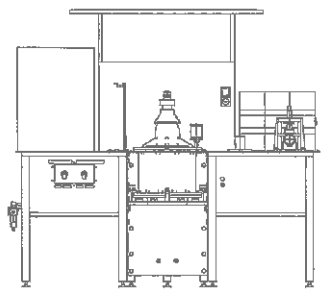


Designation	Brake cylinders 188B, 519A, 710 repair in conditions of a railroad car-maintenance enterprise pursuant to requirements of repair manuals R 009 PKB CV-2008 RK and P 018 PKB CV-2008 RK

Specifications

Operating pressure of the pneumatic system with air cleanness not below than class 6 in accordance with GOST 17433-80, *at least*	MPa (kgf/cm²)	0,6 (6,0)
Overall dimensions	mm	2100 × 1000 × 2000
Weight	kg	540
Stand electric supply	V/Hz	220±10% / 50±0,4

Brake cylinders repair workstation 7879-4891



Designation	Brake cylinders 188B, 519A, 710 repair in conditions of a railroad car-maintenance enterprise pursuant to requirements of repair manuals R 009 PKB CV-2008 RK and R 018 PKB CV-2008 RK

Specifications

Operating pressure of the pneumatic system with air cleanness not below than class 6 in accordance with GOST 17433-80, *at least*	MPa (kgf/cm²)	0,6 (6,0)
Overall dimensions	mm	2100 × 1000 × 2000
Weight	kg	450

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