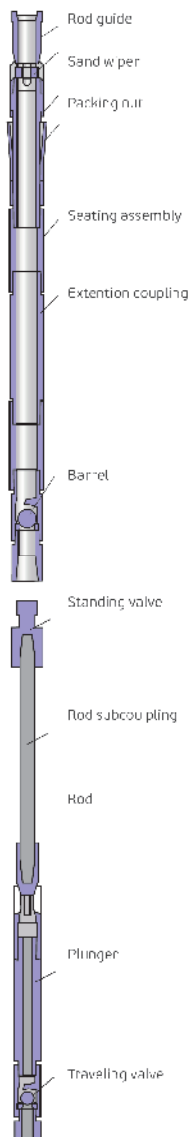
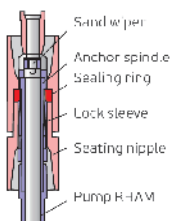


Rod (Insert) pumps

Scheme of top (mechanical) anchored rod pump acc. to API



Scheme of seating arrangement



*Pump designation is given without lengths of a barrel, a plunger and extensions, which are selected for each pump type and version according to required plunger stroke.

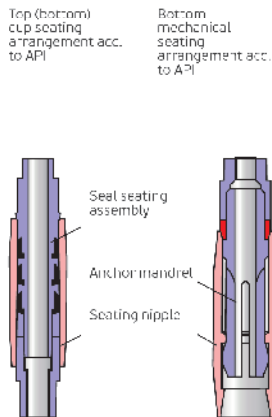
Rod (insert) pumps are delivered with sand wiper (sand valve). It is installed in rod guide to prevent sanding up of a pump during its idle time.

To provide better sealing of pump anchoring unit in corrosion environment, an anchor spindle of top mechanical seating arrangement as per API assembled with stainless steel packing nut is available.

VERSIONS OF ROD PUMPS:

SEATING ARRANGEMENT	PUMP BORE, MM	TUBING SIZE, MM	PUMP DESIGNATION*	DESIGNATION OF SEATING NIPPLE (ANCHOR)
Top mechanical, acc. to API	27,0	60,3	20-106 RHAM	40116-ZUS
		73,0		40116-M-ZLS
	31,8	60,3	20-125 RHAM	40116-7US
		73,0		40116-M-ZLS
	38,1	73,0	25-150 RHAM	40117-ZUS
44,5	25-175 RHAM			
Top mechanical, in OM support, acc. to OCT 26.16.06-86	27,0	60,3	20-106 RHAM	OM-60
	31,8		20-125 RHAM	
	38,1	73,0	25-150 RHAM	OM-73
	44,5		25-175 RHAM	
Top special (taper-in-taper)	27,0	73,0	25-106 RHAM	32001-M, 32001-KM, 40116-KM-ZUS
	31,8		25-125 RHAM	
	38,1		25-150 RHAM	
	44,5		25-175 RHAM	
Top cup acc. to API	27,0	60,3	20-106 RHAC	32521
		73,0	25-106 RHAC	32522
	31,8	60,3	20-125 RHAC	32521
		73,0	25-125 RHAC	32522
			25-150 RHAC	
44,5	25-175 RHAC			
Bottom mechanical acc. to API	27,0	60,3	20-106 RHBM	32756
		73,0	25-106 RHBM	32757
	31,8	60,3	20-125 RHBM	32756
		73,0	25-125 RHBM	32757
	38,1	73,0	25-150 RHBM	
	44,5		25-175 RHBM	
57,2	88,9	30-225 RHBM	32758	
Bottom mechanical, double-stage pump	57,2/38,1	88,9	30-225/150 RHBM 12-4-2-2	32758
Bottom cup acc. to API	27,0	60,3	20-106 RHBC	32521
	31,8		20-125 RHBC	
	38,1	73,0	25-150 RHBC	32522
			44,5	
Bottom mechanical acc. to API, set in pump bottom	27,0	73,0/ 60,3	25/20-106 RHM-T	40116-MT-ZUS
	31,8		25/20-125 RHM-T	
	38,1		25/20-150 RHM-T	
	44,5		25/20-175 RHM-T	
Travelling barrel, bottom mechanical, acc. to OST	44,5	73,0	25-175RHTM	OM-73

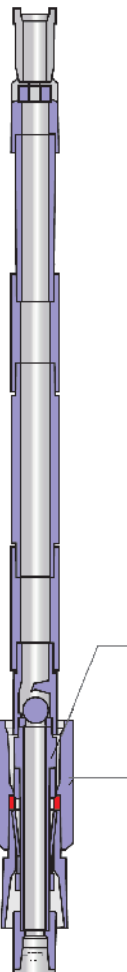
Anchor (seating nipple) of rod (insert) pumps



SEATING ARRANGEMENT		DESIGNATION	CONNECTING THREAD, MM
Top mechanical	Acc. to API	40116-ZUS	60
		40116-M- /US 40117- /US	73
		40116-MT-ZUS	73/60
	Taper-in-taper	32001-M, 40-116-KM-ZUS	73
		32002-M, 40117-KM- /US	73
Acc. to OST	OM-50	60	
	OM-73	73	
Top and bottom cup	Acc. to API	32521	60
		32522	73
Bottom mechanical	Acc. to API	32756	60
		32757	73
		32758	89

Rod (insert) pumps of special design:

Pump, RHM-T (plunger is not shown)



Top mechanical seating arrangement acc. to API

Seating nipple 40116-MT-ZUS

VERSIONS:

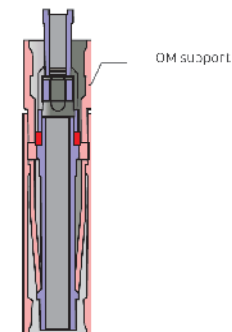
- RHAM pumps with anchor at the top end of a pump for setting in OM support according to OST 26.16.06-86;
- RHAM pumps with anchor at the top end of a pump for setting in seating nipple of «taper-in-taper» seating arrangement;
- RHM-T pumps with diameters 27, 32, 38 and 44 mm, at the bottom end of which top mechanical seating assembly acc. to API from pumps with diameter from 27 mm to 32 mm. Pumps are installed in 40116-MT-ZUS seating nipple with connecting thread of tubing 73 mm on the top and tubing 60 mm on the bottom. Such design of pumps allows to install RHAM pumps with diameters 27 mm and 32 mm and RHM-T pumps of all diameters (25/20-106 RHM-T, 25/20-125 RHM-T, 25/20-150 RHM-T, 25/20-175 RHM-T) in a well with 40116-MT-ZUS seating nipple;
- Double-stage pumps;
- On customer's request standard pumps can be equipped with doubled standing and travelling valves.

EXAMPLE OF INSERT PUMP DESIGNATION

Diameter 32 mm with bottom mechanical seating arrangement acc. to API, length of barrel – 12 feet, length of plunger – 4 feet, extensions – 2 feet each, for installation in tubing 73 mm:

25-125 RHBM 12-4-2-2

Top mechanical seating arrangement in OM support



Top mechanical seating arrangement "taper in taper" (integral seating nipple is delivered as well)

