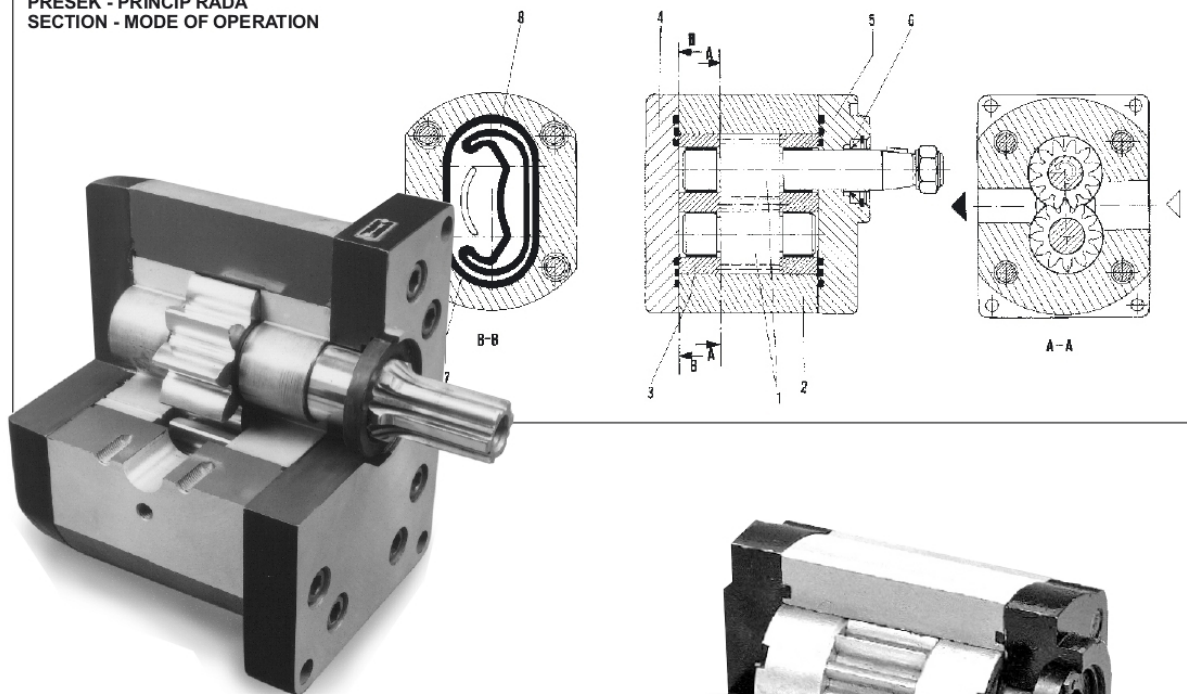
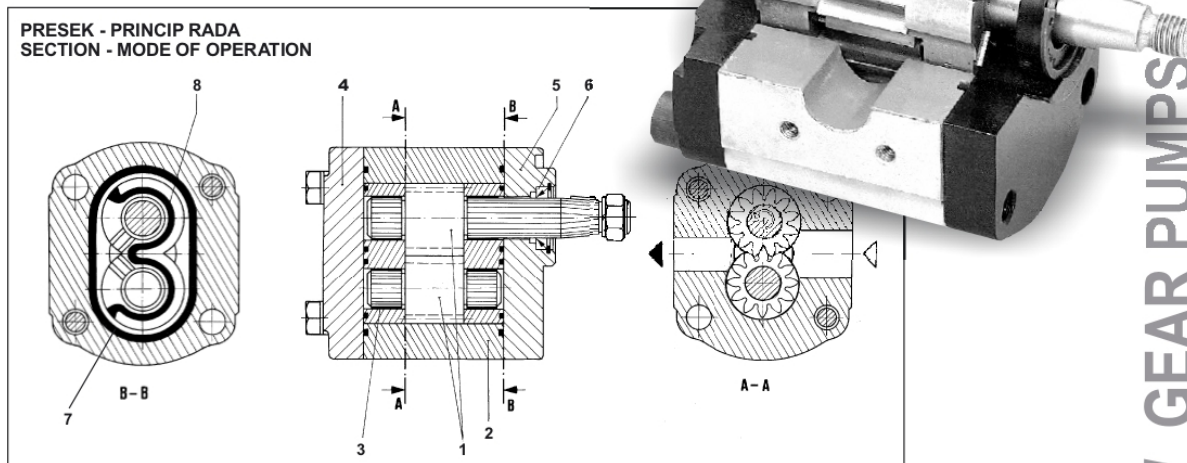


PRESEK - PRINCIP RADA
SECTION - MODE OF OPERATION

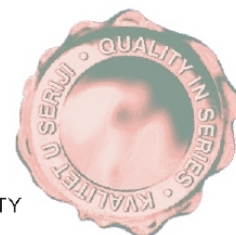


PRESEK - PRINCIP RADA
SECTION - MODE OF OPERATION



- JEDNOSTRUJNE, DVOSTRUJNE (SA DVA ODVOJENA PROTOKA) I TROSTRUJNE (SA TRI ODVOJENA PROTOKA)
- VISOKOG PRITISKA, SA SPOLJAŠNJIM OZUBLJENJEM
- STANDARDNE I SPECIJALNE KONSTRUKCIJE
- VELIKA HIDRAULIČKA SNAGA
- SPECIJALNO ULEŽIŠTENJE ZUPČANIKA
- DOBAR ZAPREMINSKI I MEHANIČKI STEPEN KORISNOG DEJSTVA
- SERIJSKA ILI POJEDINAČNA PROIZVODNJA SA STROGOM KONTROLOM KVALITETA
- DOBAR UČINAK I U NAJTEŽIM RADNIM USLOVIMA
- DUG VEK

- SINGLE , DOUBLE (WITH TWO SEPARATE FLOW CIRCUITS) AND TRIPLE (WITH THREE SEPARATE FLOW CIRCUITS)
- HIGH PRESSURE WITH OUTER GEARING
- STANDARD AND SPECIAL PURPOSE
- HIGH HYDRAULIC POWER
- SPECIAL SUPPORTING GEAR BEARINGS
- HIGH VOLUMETRIC AND MECHANICAL EFFICIENCY
- SERIAL AND INDIVIDUAL PRODUCTION WITH ACCURATE CONTROL OF QUALITY
- SATISFACTORY PERFORMANCE UNDER THE HEAVIEST DUTIES
- LONG LIFE



ZUPČASTE PUMPE / GEAR PUMPS

OSNOVNE TEHNIČKE KARAKTERISTIKE BASIC TECHNICAL DATA

Smer obrtanja Rotation direction	levi ili desni anticlockwise or clockwise  
Položaj ugradnje Mounting position	proizvoljan optional
Način pogona Drive mode	obrotnim momentom: bez dodatnog ležaja (radijalne i aksijalne sile nisu dozvoljene) sa dodatnim ležajem (radijalne i aksijalne sile su dozvoljene) with torque: without additional bearing (radial and axial forces not permanent) with additional bearing (radial and axial forces permissible)
Temperatura okoline Ambient temperature (°C)	-20 ... +40
Finoća filtriranja Filtering fineness (µm)	usisni vod suction line 150 potisni vod pressure line 25
Potpritisak u usisnom vodu Suction line permissible subpressure (bar)	0,3
Nadpritisak u usisnom vodu Suction line permissible overpressure (bar)	1,5
Radna tečnost - mineralno ulje Working fluid - mineral oil	 Viskozitet: optimalni 16 do 90 mm²/s, kratko pri startu 800 mm²/s; temperatura -30 do +80°C Viscosity: optimal 16 to 90 mm²/s, intermittent for starting 800 mm²/s; temperature -30 to +80°C

POGON

Pumpe se pogone preko elastične spojnice. Radijalne i aksijalne sile nisu dozvoljene. Ako se pumpe pogone preko kaišnika ili zupčanika neophodno je izabrati pumpu sa dodatnim ležajem u prednjem poklopcu.

DRIVE ARRANGEMENTS

The pumps are driven by flexible coupling. Radial and axial forces on to driven shaft are not permissible. If the pump by V-belt or gear wheel driven is, then must be pump with additional bearing in front cover (flange) chosen.

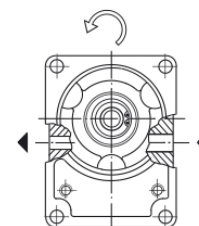
SMER OBRRTANJA

Pumpe se isporu-uju za rad u levom ili desnom smeru obrtanja. Nije dozvoljen rad pumpe u suprotnom smeru. Smer se određuje posmatranjem pumpe sa dela pogonskog vratila i označen je strelicom na prednjem poklopcu.

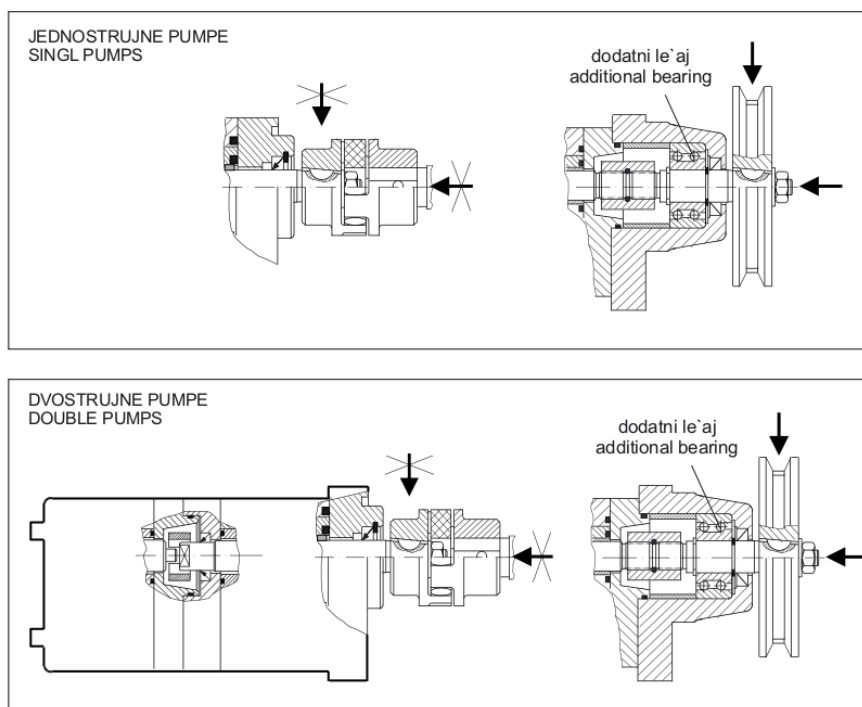
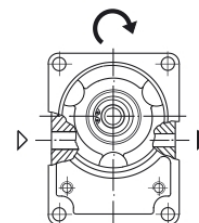
DIRECTION OF ROTATION

Clockwise or anticlockwise (looking on shaft). The pump may only be driven in the direction indicated. Direction of rotation is

Levi smer / anticlockwise



Desni smer / clockwise





NON STANDARD



simbol / symbol 

oznaka / designation

traktor / tractor
BELARUS

rad. zapremina / displacement (cm³)
11

pritisak / pressure (bar)
nom. 200 - max. 250

broj obrtaja / speed (l/min) / (rpm)
min. 500 - nom. 1500 - max. 3600

3,0 kg

crtež
drawing

NON STANDARD



simbol / symbol 

oznaka / designation

traktor / tractor
BELARUS

rad. zapremina / displacement (cm³)
33,33

pritisak / pressure (bar)
nom. 160 - max. 200

broj obrtaja / speed (l/min) / (rpm)
min. 500 - nom. 1500 - max. 2500

13,0 kg

crtež
drawing

NON STANDARD



simbol / symbol 

oznaka / designation

traktor / tractor
BRATSTVO

rad. zapremina / displacement (cm³)
42,0

pritisak / pressure (bar)
nom. 160 - max. 200

broj obrtaja / speed (l/min) / (rpm)
min. 500 - nom. 1500 - max. 2500

11,5 kg

crtež
drawing

NON STANDARD



simbol / symbol 

oznaka / designation

BOSCH
0510515328

traktor / tractor
DEUTZ

rad. zapremina / displacement (cm³)
14

pritisak / pressure (bar)
nom. 250 - max. 300

broj obrtaja / speed (l/min) / (rpm)
min. 500 - nom. 1500 - max. 3000

2,8 kg

crtež
drawing

STANDARD



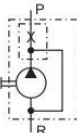
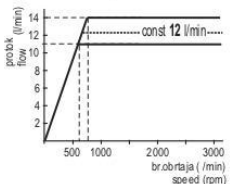
simbol / symbol 

diagram 

oznaka / designation

BOSCH
0510615322

traktor / tractor
DEUTZ

rad. zapremina / displacement (cm³)
16

pritisak / pressure (bar)
nom. 250 - max. 300

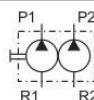
broj obrtaja / speed (l/min) / (rpm)
min. 500 - nom. 1500 - max. 3000

4,2 kg

crtež
drawing

STANDARD



simbol / symbol 

oznaka / designation

BOSCH
0510665341

traktor / tractor
DEUTZ DX85, DX90, DX110, DX120, DX145, DX360, DX370, DX610, DX630, DX650

rad. zapremina / displacement (cm³)
16 + 14

pritisak / pressure (bar)
nom. 250/230 - max. 300/250

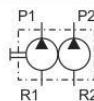
broj obrtaja / speed (l/min) / (rpm)
min. 500 - nom. 1500 - max. 2000

6,6 kg

crtež
drawing

STANDARD



simbol / symbol 

oznaka / designation

BOSCH
0510665368

traktor / tractor
DEUTZ DX80, DX86, DX110, DX92, DX450, DX470, DX457, DX610, DX4.31, DX4.50

rad. zapremina / displacement (cm³)
19 + 11

pritisak / pressure (bar)
nom. 210/190 - max. 250/210

broj obrtaja / speed (l/min) / (rpm)
min. 500 - nom. 1500 - max. 2000

6,8 kg

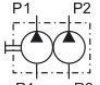
crtež
drawing



➤ **DEUTZ. FIAT. IMT. IMR**

STANDARD



simbol / symbol 

oznaka / designation

	BOSCH
	0510765315

traktor / tractor

DEUTZ DX85, DX90, DX110, DX120, DX145, DX360, DX370, DX610, DX630, DX650

rad. zapremina / displacement (cm³)
22,5 + 14

pritisak / pressure (bar)
nom. 180/160 - max. 210/180

broj obrtaja / speed (l/min) / (rpm)
min.500 - nom.1500 - max.2000

 crtež drawing

STANDARD



simbol / symbol 

oznaka / designation

	BOSCH
	0510525011

traktor / tractor

FIAT 480

rad. zapremina / displacement (cm³)
11

pritisak / pressure (bar)
nom. 250 - max. 300

broj obrtaja / speed (l/min) / (rpm)
min.500 - nom.1500 - max.3000

 crtež drawing

NON STANDARD



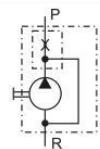
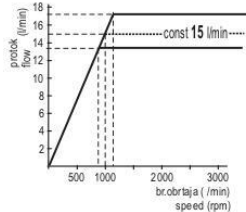
simbol / symbol 

diagram 

oznaka / designation

traktor / tractor

FIAT

rad. zapremina / displacement (cm³)
19

pritisak / pressure (bar)
nom. 180 - max. 210

broj obrtaja / speed (l/min) / (rpm)
min.500 - nom.1500 - max.3000

 crtež drawing

STANDARD



simbol / symbol 

oznaka / designation

	BOSCH
	0510625319

traktor / tractor

FIAT

rad. zapremina / displacement (cm³)
19

pritisak / pressure (bar)
nom. 210 - max. 250

broj obrtaja / speed (l/min) / (rpm)
min.500 - nom.1500 - max.2000

 crtež drawing

NON STANDARD



simbol / symbol 

oznaka / designation

traktor / tractor

IMT 542, 560, 577

rad. zapremina / displacement (cm³)
10,66

pritisak / pressure (bar)
nom. 160 - max. 200

broj obrtaja / speed (l/min) / (rpm)
min.500 - nom.1500 - max.3500

 crtež drawing

NON STANDARD



simbol / symbol 

oznaka / designation

traktor / tractor

FIAT

rad. zapremina / displacement (cm³)
6,66

pritisak / pressure (bar)
nom. 100 - max. 130

broj obrtaja / speed (l/min) / (rpm)
min.500 - nom.1500 - max.2500

 crtež drawing

NON STANDARD



simbol / symbol 

oznaka / designation

traktor / tractor

IMT 577

rad. zapremina / displacement (cm³)
10,66

pritisak / pressure (bar)
nom. 160 - max. 200

broj obrtaja / speed (l/min) / (rpm)
min.500 - nom.1500 - max.3500

 crtež drawing

ZUPČASTE PUMPE / GEAR PUMPS



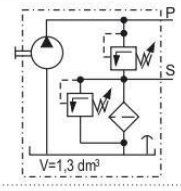
IMT. IMR

ZUPČASTE PUMPE / GEAR PUMPS

NON STANDARD



simbol / symbol



oznaka / designation

traktor / tractor
IMT 577, 587
IMR R76, R76DVP
 rad. zapremina / displacement (cm³)
 5,9
 pritisak / pressure (bar)
 nom. 85 - max. 125
 broj obrtaja / speed (/min) / (rpm)
 min.500 - nom.1500 - max.4000

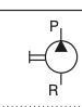
3,2 kg

crtež drawing

NON STANDARD



simbol / symbol



oznaka / designation

traktor / tractor
IMT 5132, 5270
 rad. zapremina / displacement (cm³)
 53,33
 pritisak / pressure (bar)
 nom. 200 - max. 250
 broj obrtaja / speed (/min) / (rpm)
 min.500 - nom.1500 - max.2500

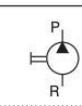
14,0 kg

crtež drawing

NON STANDARD



simbol / symbol



oznaka / designation

traktor / tractor
IMT 549, 733
 rad. zapremina / displacement (cm³)
 5,5
 pritisak / pressure (bar)
 nom. 250 - max. 300
 broj obrtaja / speed (/min) / (rpm)
 min.500 - nom.1500 - max.3000

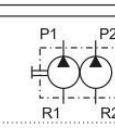
3,2 kg

crtež drawing

NON STANDARD



simbol / symbol



oznaka / designation

traktor / tractor
IMT 5100, 5106, 5130, 5132
 rad. zapremina / displacement (cm³)
 13,33 + 2,66
 pritisak / pressure (bar)
 nom. 160/63 - max. 200/100
 broj obrtaja / speed (/min) / (rpm)
 min.500 - nom.1500 - max.3500

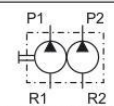
5,4 kg

crtež drawing

NON STANDARD



simbol / symbol



oznaka / designation

traktor / tractor
IMT 5173
 rad. zapremina / displacement (cm³)
 16 + 11
 pritisak / pressure (bar)
 nom. 160 - max. 200
 broj obrtaja / speed (/min) / (rpm)
 min.500 - nom.1500 - max.2500

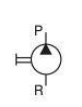
6,8 kg

crtež drawing

STANDARD



simbol / symbol



oznaka / designation

traktor / tractor
IMT 5100, 5106
 rad. zapremina / displacement (cm³)
 6,6
 pritisak / pressure (bar)
 nom. 250 - max. 300
 broj obrtaja / speed (/min) / (rpm)
 min.500 - nom.1500 - max.3000

3,8 kg

crtež drawing

NON STANDARD



simbol / symbol



oznaka / designation

traktor / tractor
IMT 566, 567, 575, 590
 rad. zapremina / displacement (cm³)
 10,66
 pritisak / pressure (bar)
 nom. 160 - max. 200
 broj obrtaja / speed (/min) / (rpm)
 min.500 - nom.1500 - max.3500

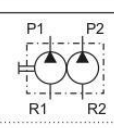
3,4 kg

crtež drawing

NON STANDARD



simbol / symbol



oznaka / designation

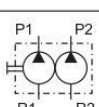
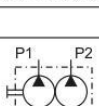
traktor / tractor
IMT 5170
 rad. zapremina / displacement (cm³)
 16 + 4
 pritisak / pressure (bar)
 nom. 160 - max. 200
 broj obrtaja / speed (/min) / (rpm)
 min.500 - nom.1500 - max.3000

5,5 kg

crtež drawing



IMT. IMR

NON STANDARD		simbol / symbol 	oznaka / designation
	 6,3 kg		traktor / tractor IMT 5101, 5131 rad. zapremina / displacement (cm ³) 33,33 pritisak / pressure (bar) nom. 200 - max. 250 broj obrtaja / speed (l/min) / (rpm) min. 500 - nom. 1500 - max. 2700
STANDARD		simbol / symbol 	oznaka / designation
	 POGON: KAIŠNIK ILI ZUPČANIK DRIVE: V-BELT OR GEAR WHEEL  14,5 kg		traktor / tractor IMT 5173 rad. zapremina / displacement (cm ³) 66,66 pritisak / pressure (bar) nom. 160 - max. 200 broj obrtaja / speed (l/min) / (rpm) min. 500 - nom. 1500 - max. 2500
NON STANDARD		simbol / symbol 	oznaka / designation
	 14 kg		traktor / tractor IMT 5200, 5270, 5360 rad. zapremina / displacement (cm ³) 11 pritisak / pressure (bar) nom. 200 - max. 250 broj obrtaja / speed (l/min) / (rpm) min. 500 - nom. 1500 - max. 2500
NON STANDARD		simbol / symbol 	oznaka / designation
	 17,3 kg		traktor / tractor IMT 5200 rad. zapremina / displacement (cm ³) 33,33 + 33,33 pritisak / pressure (bar) nom. 200 - max. 250 broj obrtaja / speed (l/min) / (rpm) min. 500 - nom. 1500 - max. 2500
NON STANDARD		simbol / symbol 	oznaka / designation
	 POGON: KAIŠNIK ILI ZUPČANIK DRIVE: V-BELT OR GEAR WHEEL  15,5 kg		traktor / tractor IMT 5200, 5220 rad. zapremina / displacement (cm ³) 42,0 pritisak / pressure (bar) nom. 160 - max. 200 broj obrtaja / speed (l/min) / (rpm) min. 500 - nom. 1500 - max. 2500
STANDARD		simbol / symbol 	oznaka / designation
	 13,5 kg		traktor / tractor IMT 5200, 5220, 5270 rad. zapremina / displacement (cm ³) 33,33 + 33,33 pritisak / pressure (bar) nom. 200 - max. 250 broj obrtaja / speed (l/min) / (rpm) min. 500 - nom. 1500 - max. 2500
STANDARD		simbol / symbol 	oznaka / designation
	 POGON: KAIŠNIK ILI ZUPČANIK DRIVE: V-BELT OR GEAR WHEEL  13,7 kg		traktor / tractor IMT 5360 rad. zapremina / displacement (cm ³) 42,0 pritisak / pressure (bar) Nom. 200 - max. 250 broj obrtaja / speed (l/min) / (rpm) min. 500 - nom. 1500 - max. 2500
STANDARD		simbol / symbol 	oznaka / designation
	 3,6 kg	 0510625316	traktor / tractor IMR R120 rad. zapremina / displacement (cm ³) 19 pritisak / pressure (bar) nom. 210 - max. 250 broj obrtaja / speed (l/min) / (rpm) min. 500 - nom. 1500 - max. 2000

ZUPČASTE PUMPE / GEAR PUMPS



IMR

ZUPČASTE PUMPE / GEAR PUMPS

NON STANDARD



3,5 kg

crtež
drawing

simbol / symbol



oznaka / designation

traktor / tractor
IMR R47
rad. zapremina / displacement (cm³)
10,66
pritisak / pressure (bar)
nom. 160 - max. 200
broj obrtaja / speed (l/min) / (rpm)
min.500 - nom.1500 - max.3000

NON STANDARD



3,6 kg

crtež
drawing

simbol / symbol



oznaka / designation

traktor / tractor
IMR R65, R65N, R65DV, R65S, R65CKD, R76DVP
rad. zapremina / displacement (cm³)
14
pritisak / pressure (bar)
nom. 250 - max. 300
broj obrtaja / speed (l/min) / (rpm)
min.500 - nom.1500 - max.3000

NON STANDARD



3,2 kg

crtež
drawing

simbol / symbol



oznaka / designation

traktor / tractor
IMT 5170
rad. zapremina / displacement (cm³)
5,5
pritisak / pressure (bar)
nom. 250 - max. 300
broj obrtaja / speed (l/min) / (rpm)
min.500 - nom.1500 - max.2000

NON STANDARD



3,6 kg

crtež
drawing

simbol / symbol



oznaka / designation

traktor / tractor
IMR R60, R65, R65S, R76, R76DVP
rad. zapremina / displacement (cm³)
13,33
pritisak / pressure (bar)
nom. 160 - max. 210
broj obrtaja / speed (l/min) / (rpm)
min.500 - nom.1500 - max.3000

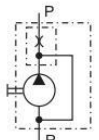
NON STANDARD



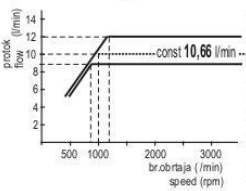
4,0 kg

crtež
drawing

simbol / symbol



diagram



oznaka / designation

traktor / tractor
IMR R47, R60
rad. zapremina / displacement (cm³)
10,66
pritisak / pressure (bar)
nom. 160 - max. 175
broj obrtaja / speed (l/min) / (rpm)
min.500 - nom.1500 - max.3000

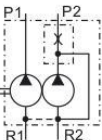
NON STANDARD



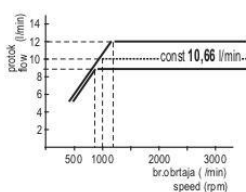
7,6 kg

crtež
drawing

simbol / symbol



diagram



oznaka / designation

traktor / tractor
IMR R65DV, R65, R65S
rad. zapremina / displacement (cm³)
13,33 + 10,66
pritisak / pressure (bar)
nom. 210/160 - max. 250/175
broj obrtaja / speed (l/min) / (rpm)
min.500 - nom.1500 - max.3000

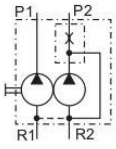


NON STANDARD

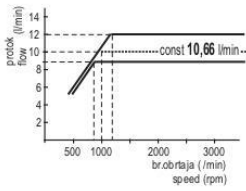


7,8 kg

simbol / symbol



diagram



oznaka / designation

traktor / tractor
IMR R65A

rad. zapremina / displacement (cm³)
19 + 10,66

pritisak / pressure (bar)
nom. 180/160 - max. 210/175

broj obrtaja / speed (/min) / (rpm)
min.500 - nom.1500 - max.3000

crtež
drawing

STANDARD



3,9 kg

simbol / symbol



oznaka / designation

BOSCH
0510625015

traktor / tractor
IMR R120

rad. zapremina / displacement (cm³)
16

pritisak / pressure (bar)
nom. 250 - max. 300

broj obrtaja / speed (/min) / (rpm)
min.500 - nom.1500 - max.2000

crtež
drawing

NON STANDARD



2,2 kg

simbol / symbol



oznaka / designation

traktor / tractor
LEYLAND

rad. zapremina / displacement (cm³)
6,0

pritisak / pressure (bar)
nom. 160 - max. 200

broj obrtaja / speed (/min) / (rpm)
min.500 - nom.1500 - max.3000

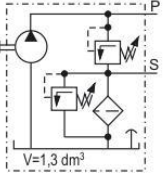
crtež
drawing

NON STANDARD



3,2 kg

simbol / symbol



oznaka / designation

traktor / tractor
MASSEY FERGUSON MF265, MF285

rad. zapremina / displacement (cm³)
5,9

pritisak / pressure (bar)
nom. 85 - max. 125

broj obrtaja / speed (/min) / (rpm)
min.500 - nom.1500 - max.4000

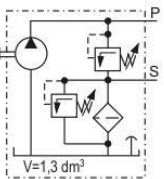
crtež
drawing

NON STANDARD



3,2 kg

simbol / symbol



oznaka / designation

traktor / tractor
MASSEY FERGUSON MF265, MF285

rad. zapremina / displacement (cm³)
5,9

pritisak / pressure (bar)
nom. 85 - max. 125

broj obrtaja / speed (/min) / (rpm)
min.500 - nom.1500 - max.4000

crtež
drawing

NON STANDARD



1,7 kg

simbol / symbol



oznaka / designation

traktor / tractor
TOMO VINKOVIĆ TV419, 522, 420, 523, 818, 821, 830

rad. zapremina / displacement (cm³)
4,2

pritisak / pressure (bar)
nom. 200 - max. 250

broj obrtaja / speed (/min) / (rpm)
min.500 - nom.1500 - max.3500

crtež
drawing

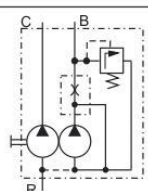
STANDARD   2,5 kg	simbol / symbol 
	oznaka / designation BOSCH  0510615317
traktor / tractor TORPEDO TX45, TX48, TX55A, TD45	
rad. zapremina / displacement (cm ³) 16	
pritisak / pressure (bar) nom. 250 - max. 300	
broj obrtaja / speed (/min) / (rpm) min.500 - nom.1500 - max.2000	
crtež drawing	

NON STANDARD   3,7 kg	simbol / symbol 
	oznaka / designation
traktor / tractor URSUS, ZETOR	
rad. zapremina / displacement (cm ³) 19	
pritisak / pressure (bar) nom. 210 - max. 250	
broj obrtaja / speed (/min) / (rpm) min.500 - nom.1500 - max.3000	
crtež drawing	

STANDARD   2,6 kg	simbol / symbol 
	oznaka / designation BOSCH  0510615318
traktor / tractor TORPEDO TX65, TD60, TD75A, TD90, TD90A	
rad. zapremina / displacement (cm ³) 19	
pritisak / pressure (bar) nom. 210 - max. 250	
broj obrtaja / speed (/min) / (rpm) min.500 - nom.1500 - max.2000	
crtež drawing	

NON STANDARD   7,0 kg	simbol / symbol 
	oznaka / designation NOT AVAILABLE
traktor / tractor URSUS, ZETOR	
rad. zapremina / displacement (cm ³) 22,5	
pritisak / pressure (bar) nom. 180 - max. 210	
broj obrtaja / speed (/min) / (rpm) min.500 - nom.1500 - max.3000	
crtež drawing	

STANDARD   6,5 kg	simbol / symbol 
	oznaka / designation BOSCH  0510665323
traktor / tractor TORPEDO RX100	
rad. zapremina / displacement (cm ³) 16 + 11	
pritisak / pressure (bar) nom. 250/230 - max. 300/250	
broj obrtaja / speed (/min) / (rpm) min.500 - nom.1500 - max.2000	
crtež drawing	

NON STANDARD   7,0 kg	simbol / symbol 
	oznaka / designation
traktor / tractor UNIVERSAL UTB650, UTB651M	
rad. zapremina / displacement (cm ³) 20 + 10	
pritisak / pressure (bar) nom. 120/50 - max. 150/80	
broj obrtaja / speed (/min) / (rpm) min.500 - nom.1500 - max.3000	
crtež drawing	

