

# APD SERIES FOR DRUMS

## *Air Pressure Pumps*

Did you know?

APD pumps utilize compressed air in order to deliver liquids stored in drum cans. The safety of this process, however, is not left unconsidered.

There are two parts that protect you from overpressure.

### ① Regulator

The regulator is set to change the pressure to levels required for the device to operate safely and with maximum efficiency.

### ② Safety Valve

The safety valve opens if the pressure unexpectedly reaches more than 0.7 MPa.

APD Pumps quickly and safely deliver various liquids (general oil, solvents, acids, alkalis) stored in drum cans. With an outstanding delivery rate, handiness and low emission of noise, these devices are perfect tools for industrial liquid transfer.

### ■ *Explosion-proof*

APD pumps do not require electric power. They are safe for use in hazardous areas. SUS type is additionally equipped with a ground wire for protection against static electricity.

### ■ *Extremely low malfunction rate*

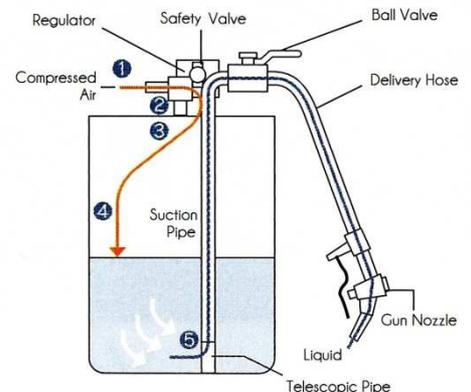
There are no moving parts in APD's structure. The device hardly ever breaks down. Transferring liquids contaminated with small particles is possible.

### ■ *Outstandingly efficient*

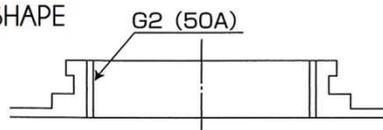
The devices can deliver liquids very fast, even up to 150 l/min. These pumps have been designed to save time and money. The liquid leftover in the drum can is less than 0.5 l. Very high quality of APD guarantees its long life and usability.

#### DELIVERY MECHANISM

- ① Compressed air of 0.1~1 MPa is let in.
- ② Regulator is set to decompress the air to 0.05 MPa.
- ③ Decompressed air enters the drum can.
- ④ The air pushes the surface of the liquids inside of the can.
- ⑤ The pushed liquid enters the suction pipe.
- ⑥ The liquid enters the hose and leaves through the nozzle.



#### DRUM CAN INLET'S SHAPE



APD Series utilize closed drum cans.



# TECHNICAL SPECIFICATIONS

# APD

## Air Pressure Pumps

Model		APD-20SUS EX	APD-20 EX	APD-20N EX	APD-25 EX
Function		Delivery			
Permitted Liquids		Acids, Alkalis, Solvents	General Oil		
Adapter's Material		SUS303	CAC406 (Copper)		
Dispensation Parts Material	Main body, nozzle	SUS304	Aluminum		
	Packing	Teflon, Perfluoro	Fluororubber		
Hose		SUS304 (ø20x2m)	PVC (ø25x2m)		PVC (ø32x2m)
Max Delivery Rate (l/min)	1 cP	40	65	55	150
	100 cP	30	55	45	125
	500 cP	15	30	20	60
	1000 cP	5.5	15	9.5	25
	3000 cP	1	2.5	1.5	5
	5000 cP	0.3	0.5	0.5	2.5
Liquid Uplift (for water)		2 m max			
Weight		7.8 kg	4.4 kg	4.3 kg	5.6 kg



**APD-20SUS EX**

