

R1 Series Datasheet

SPRING-RETURN PLUNGER PISTON DOSING PUMP

General Information

Mytho's R1 Series plunger piston pump is a high-performance dosing system covering flow rates from 1,5 to 304 l/h and backpressure up to 20 bar.

Featuring several configurations for pump head and power, the R1 Series is suited to a multitude of applications including wastewater treatment, clean-in-place and reverse osmosis.

R1 Series pumps include a spring return mechanism built into an aluminium housing, with each model featuring two stroke-rate values. Pumps boast a 15 mm stroke length which can be set manually or automatically via a linear actuator accepting a 4 – 20 mA signal.

R1 Series systems can be supplied with a 3-phase or single-phase electric motor rated for IP55 ingress protection.



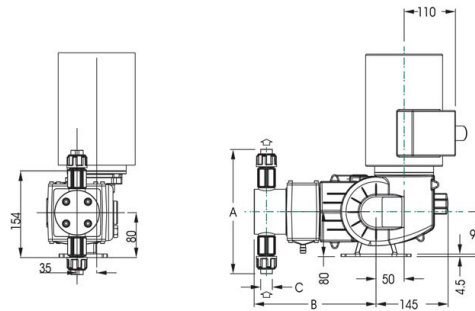
Features

- Flow rates: 1,5- 304 l/h
- Max. backpressure: up to 20 bar (290 psi)
- Motor:
 - 0.18 kW - 0.25 kW - 3ph (IP55)
 - 0.25 kW - 0.37 kW 1ph (IP55)
- Stroke rate: 58 - 116 strokes/minute
- Stroke length: 15 mm
- Plunger diameter: 6 - 64 mm
- Pump head:
 - SS 316 L
 - PVC
- Maximum dosing temperature:
 - SS 316 L 90°C
 - PVC 40°C
- For use in ambient temperatures between +5°C and +40°C
- Storage temperature: -10°C to +50°C

Applications

- Wastewater treatment
- Dairy
- CIP
- Fish farming
- Cooling towers
- Reverse osmosis
- Galvanic industry
- Irrigation

R1 Series overall dimensional drawing



Diametro pistone	AISI 316 L				PVC			
	A	B	C	Ø est. testa	A	B	C	Ø est. testa
6	120	210	1/4 g.f.	68	157	216	1/4 g.f.	80
11	120	210	1/4 g.f.	68	157	216	1/4 g.f.	80
17	120	210	3/8" g.f.	68	147	216	3/8" g.f.	80
25	120	215	3/8" g.f.	68	147	225	3/8" g.f.	80
30	120	215	3/8" g.f.	68	147	225	3/8" g.f.	80
38	160	227	3/8" g.f.	88	168	235	3/8" g.f.	100
48	160	227	1/2" g.f.	88	196	240	1/2" g.f.	100
54	173	229	1/2" g.f.	108	216	240	1/2" g.f.	120
64	202	238	3/4" g.f.	108	222	250	3/4" g.f.	120

R1 Series hydraulic performance

Model	Piston diameter	Strokes/min	Flow rate l/h	Max pressure				Connections		3-phase motor kW
				bar		psi				
				AISI 316	PVC	AISI 316	PVC	AISI 316	PVC	
R1B006U**A4000	6	58	1.5	20	10	290	145	1/4" G F	1/4" G F	0.18
R1B006X**A4000		116	3							
R1B011U**A4000	11	58	5	20	10	290	145	1/4" G F	1/4" G F	0.18
R1B011X**A4000		116	10							
R1B017U**A4000	17	58	11	20	10	290	145	3/8" G F	3/8" G F	0.18
R1B017X**A4000		116	22							
R1B025U**A4000	25	58	25	20	10	290	145	3/8" G F	3/8" G F	0.18
R1B025X**A4000		116	50							
R1B030U**B4000	30	58	35	20	10	290	145	3/8" G F	3/8" G F	0.25
R1B030X**B4000		116	70							
R1B038U**B4000	38	58	55	17	10	246.5	145	3/8" G F	3/8" G F	0.25
R1B038X**B4000		116	110							
R1B048U**B4000	48	58	85	10	10	145	145	1/2" G F	1/2" G F	0.25
R1B048X**B4000		116	170							
R1B054U**B4000	54	58	110	8	8	116	116	1/2" G F	1/2" G F	0.25
R1B054X**B4000		116	220							
R1B064U**B4000	64	58	152	6	4	87	58	3/4" G F	3/4" G F	0.25
R1B064X**B4000		116	304							

R1 Series key code

MYTHO

Model									
R1									
Stroke length									
B 15 mm									
Plunger diameter									
006 6 mm									
011 11 mm									
017 17 mm									
025 25 mm									
030 30 mm									
038 38 mm									
048 48 mm									
054 54 mm									
064 64 mm									
Reducer ratio Stroke/min [4 poles motor]									
U 24:1 58									
X 12:1 116									
Liquid end Pump head Gasket Plunger Seat O-Ring Ball valve									
AA SS316L FPM SS316L SS316L FPM SS316L									
AF SS316L EPDM SS316L SS316L EPDM SS316L									
PV PVC FPM Ceramic PTFE FPM Ceramic									
PE PVC EPDM Ceramic PTFE EPDM Ceramic									
Motor power kW Size Power supply									
S0 Without motor									
A4 0,18 M63-B14 3PH 230/400V 50/60 Hz - TFC									
C4 0,37 M71-B14									
H4 0,25 M71-B14 1PH 230V - 50Hz									
L4 0,55 M80-B14									
C0 0,40 M71-B14 12Vdc									
Stroke length regulation									
0 Manual [0-100% of stroke length]									
L Electric Actuator [4-20mA input/output]									
Customisation Customisation									
0 0									
Optional									
0 Standard									
2 S0 (without motor) + adapter Kit									
E Servoventilated (power supply 230V)									
M Material certificate EN10204 -2.2									
R1	B	011	U	AA	A4	0	0	0	

Technical data may be changed without notice.