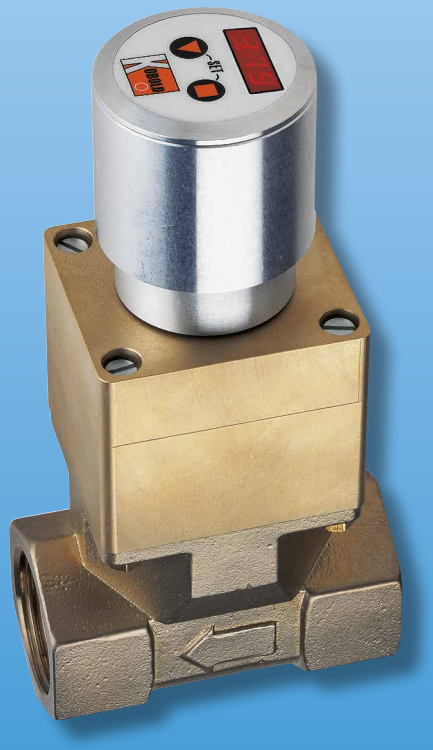
Target Type Flowmeter

for Water

measuring • monitoring • analyzing

DPT



- Patented Target/Leaf-Spring Design
- Minimal Wear Components
- Ranges: 1.5...8 to 225...500 GPM Water
- Line Sizes: 3/8”...3”
- Brass or Stainless Steel Versions
- Accuracy +/- 3% of Full Scale

KOBOLD companies worldwide:

Order from: C A Briggs Company

622 Mary Street; Suite 101; Warminster, PA 18974

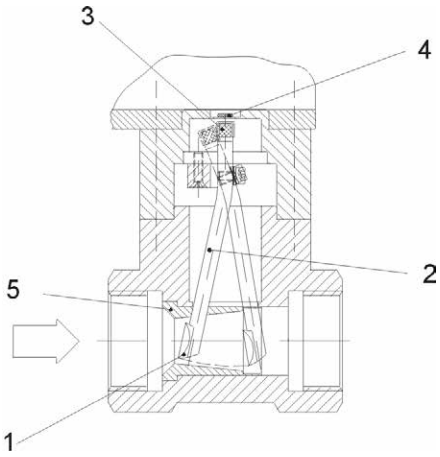
Phone: 267-673-8117 - Fax: 267-673-8118

Sales@cabriggs.com - www.cabriggs.com

03/03-2016

Description

The DPT series uses a unique, patented target system to measure water flow. This design uses a single leaf-spring to both suspend the target and to provide the target resetting force. It is a simple, reliable design with virtually no wear. The mechanism consists of a target plate (1) and lever arm (2). Fluid flow causes the target plate and lever arm to deflect against the leaf-spring. A permanent magnet (3) attached to the lever arm and Hall effect sensor (4) mounted inside the display unit translate the angular motion of the target to an electrical signal. The signal from the Hall effect sensor is used by the electronic indicators to provide a flowrate display, adjustable setpoint switches, or an analog flow signal. The target plate measuring system offers a very low head loss.



Specifications

Flow Range:	1.5...8 GPM to 225...500 GPM Water
Accuracy:	±3% of Full Scale
Repeatability:	±1% of Full Scale
Straight Piping Requirements	
Inlet:	10 X Diameter
Outlet:	5 X Diameter
Operating Temperature:	-10...176 °F
Maximum Pressure:	580 PSIG at 70 °F
Wetted Materials	
Brass Versions:	Brass, 316-Ti SS NBR, Ceramic
Stainless Steel Versions:	316-Ti Stainless Steel, FKM, Ceramic

Displays and Controllers

DPT-..C34P.. Specifications

Programmable Functions:	Lockout Code, Switch Logic, Switch Setpoint and Hysteresis, Dampening
Input Power:	24 VDC ±20%, 80 mA Max.
Display:	3 Digit LED
Switch Type:	PNP Open Collector
Switch Rating:	300 mA Max. Short Circuit Protected
Analog Output:	4-20 mA, 3-wire RL=500 Ohms Max.
Housing:	304 SS, NEMA 4X
Electrical Connection:	Micro-DC, Male, 5-pin Plug

DPT-..K042.. Specifications

Input Power:	100 ... 230 VAC/VDC
Display:	4-1/2 Digit LED and Bargraph 270°
Relays:	2 SPDT 5 amps @ 230 VAC
Analog Output:	4-20 mA, 4-wire, RL=500 Ohms Max. 0-10 VDC
Housing:	Epoxy Coated Aluminum, Polycarbonate, NEMA 4X/IP 65
Electrical Connection:	Cable Gland, PG-13.5

Order Details (Example: **DPT-1165G NB C34P**)

Range (GPM Water)	Material		Fitting	Electronic
	Brass	Stainless Steel		
1.5...8 3...12.5	**DPT-1105G..** **DPT-1110G..**	**DPT-1205G..** **DPT-1210G..**	**..N3..** = 3/8" NPT	
1.5...8 3...18	**DPT-1115G..** **DPT-1120G..**	**DPT-1215G..** **DPT-1220G...**	**..N4..** = 1/2" NPT	
1.7...15 5...25	**DPT-1125G..** **DPT-1130G..**	**DPT-1225G..** **DPT-1230G..**	**..N5..** = 3/4" NPT	**..C34P..** = Compact Electronic
5...20 20...35	**DPT-1135G..** **DPT-1140G..**	**DPT-1235G..** **DPT-1240G..**	**..N6..** = 1" NPT	
15...45 25...60	**DPT-1145G..** **DPT-1150G..**	**DPT-1245G..** **DPT-1250G..**	**..N8..** = 1-1/2" NPT	**..K042..** = Digital & Bargraph
25...120 40...200	**DPT-1155G..** **DPT-1160G..**	**DPT-1255G..** **DPT-1260G..**	**..N9..** = 2" NPT	
175...400 225...500	**DPT-1165G..** **DPT-1170G..**	**DPT-1265G..** **DPT-1270G..**	**..NB..** = 3" NPT	

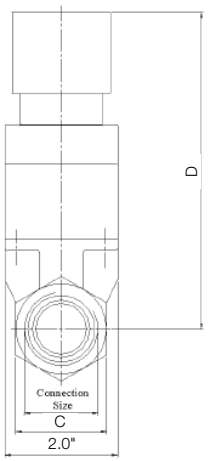
Accessories:
Mating 5-Pin M12 Micro-DC Connector with 6 ft. Cable for Indicator C34P - **Part # 807.007**

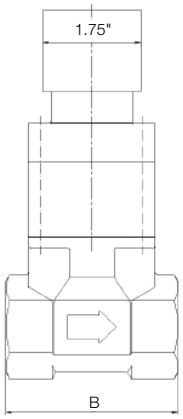
Please specify flow direction and display orientation when ordering.

Dimensions

Compact Electronics DPT-..C34P..

Fitting	B	C	D
3/8" NPT	3.07"	27 mm	5.43"
1/2" NPT	3.07"	27 mm	5.43"
3/4" NPT	3.07"	41 mm	5.43"
1" NPT	3.07"	41 mm	5.43"
1-1/2" NPT	3.07"	55 mm	6.10"
2" NPT	3.20"	70 mm	6.18"
3" NPT	4.17"	100 mm	6.85"





Electronic Display/Controller DPT- ..K042..

Fitting	A	B	C
3/8" NPT	7.32"	3.07"	27 mm
1/2" NPT	7.32"	3.07"	27 mm
3/4" NPT	7.32"	3.07"	41 mm
1" NPT	7.32"	3.07"	41 mm
1-1/2" NPT	8.0"	3.07"	55 mm
2" NPT	8.0"	3.20"	70 mm
3" NPT	8.74"	4.17"	100 mm