

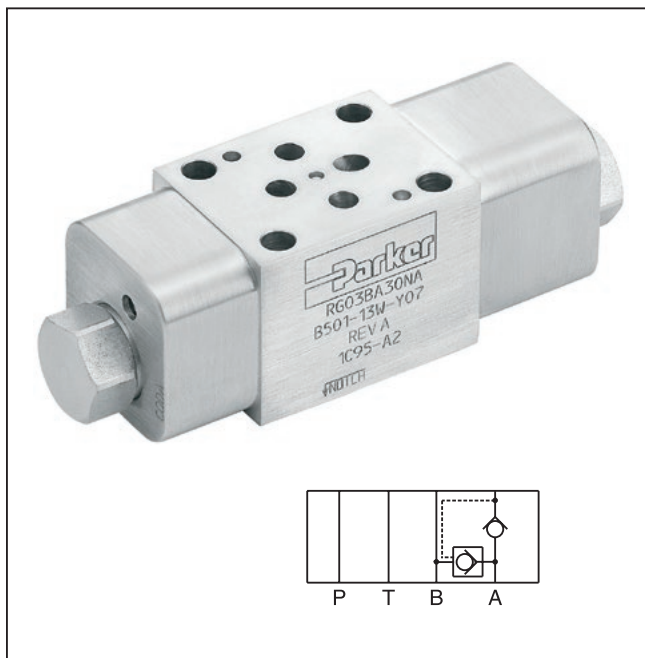
Parker RG Series Regeneration Sandwich Valve Service Manual

General Description

Series RG is a full time regenerative valve assembly that allows a double-acting, single rod cylinder to be extended more rapidly using the same pump flow. To achieve this, oil from the rod end of the cylinder is added to the flow to the cap end, increasing the rate of extension.

Features

- High life time.
- Cracking pressure 2.0 Bar (30 PSI).
- Sizes:
 - RG03 – NFPA D03 / NG6 / CETOP 3
 - RG05 – NFPA D05 / NG10 / CETOP 5
 - RG07 – NFPA D07 / NG16 / CETOP 7
 - RG08 – NFPA D08 / NG25 / CETOP 8



Specifications

General				
Size	D03 / NG6	D05 / NG10	D07 / NG16	D08 / NG25
Mounting Position	Unrestricted			
Ambient Temperature Range	-20°C to +50°C (-4°F to +122°F)			
Hydraulic				
Maximum Operating Pressure	Aluminum Body – up to 207 Bar (3000 PSI); Ductile Iron Body – up to 345 Bar (5000 PSI)			
Nominal Flow*	38 LPM (10 GPM)	95 LPM (25 GPM)	189 LPM (50 GPM)	303 LPM (80 GPM)
Leakage	< 1 DPM	< 1 DPM	< 1 DPM	< 1 DPM
Fluid Temperature	-20°C to +80°C (-4°F to +176°F)			
Viscosity	Permitted 10 to 650 cSt / mm ² /s (46 to 3013 SSU)			
	Recommended 30 cSt / mm ² /s (139 SSU)			
Filtration	ISO Class 4406 (1999) 18/16/13 (acc. NAS 1638: 7)			

* Nominal flow value refers to pump flow or regeneration flow from rod side, whichever is larger.

Ordering Information

RG
 Full Time
 Regeneration
 Valve

Size

Code	Description
03	NFPA D03 / NG6
05*	NFPA D05 / NG10
07	NFPA D07 / NG16
08	NFPA D08 / NG25

* D05HE (ISO) pattern is not available.

BA
 Style

Code	Description
BA	Regeneration flow from B to A

30
 Cracking
 Pressure

Code	Description
30	2 Bar (30 PSI)

Seal

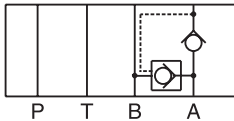
Code	Description
N	Nitrile
V*	Fluorocarbon

* Upon request.

**Body
 Material**

Code	Description
A	Aluminum
D	Ductile Iron

RGBA**

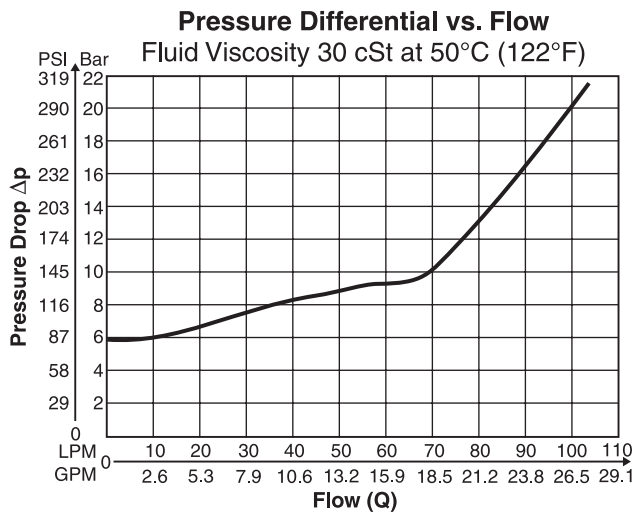


Weight:

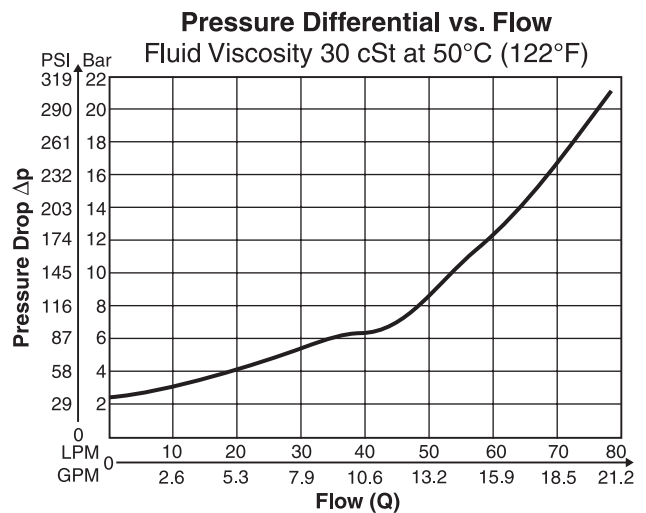
Size	RG*****NA	RG*****ND
RG03	0.8 kg (1.7 lbs)	1.6 kg (3.5 lbs)
RG05, RG5H	1.5 kg (3.3 lbs)	3.1 kg (6.9 lbs)
RG07	2.9 kg (6.5 lbs)	5.9 kg (13.1 lbs)
RG08	6.4 kg (14.1 lbs)	13.1 kg (28.8 lbs)

Performance Curves

RG03*30*A



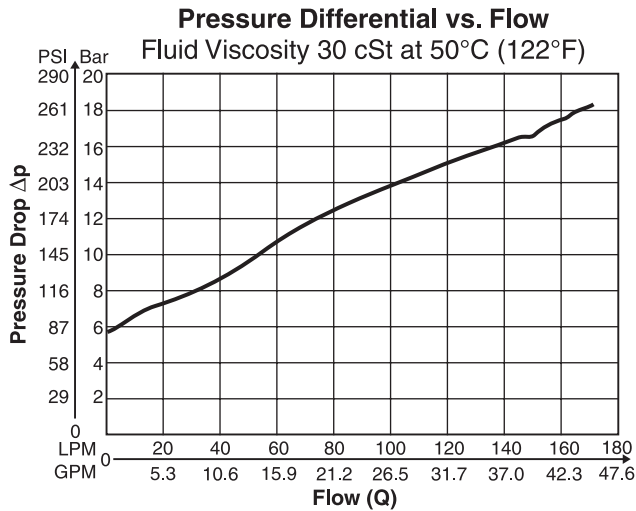
RG03*30*D



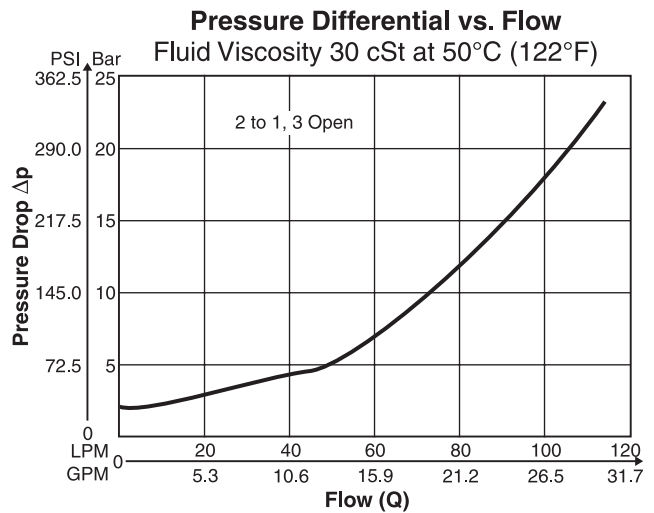
(Continued on next page.)

(Continued from previous page.)

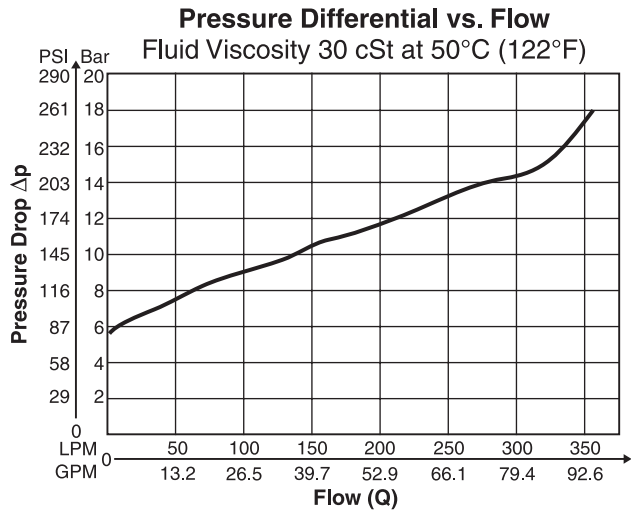
RG05*30*A, RG5H*30*A



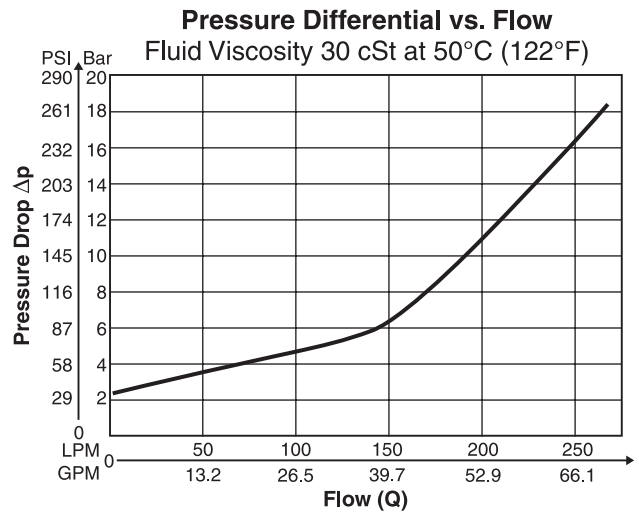
RG05*30*D, RG5H*30*D



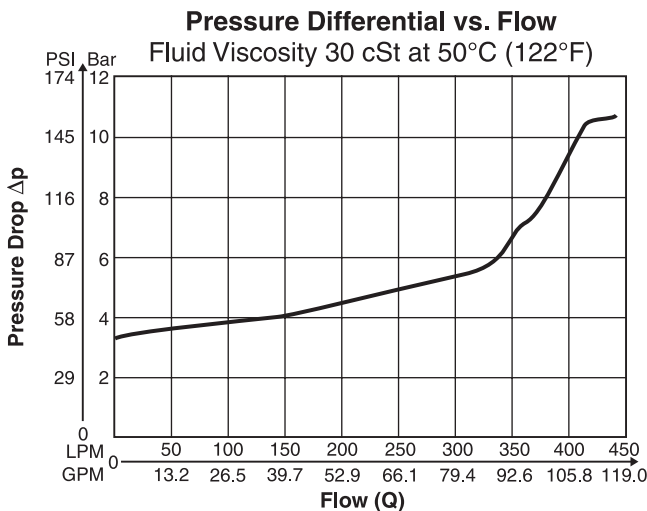
RG07*30*A



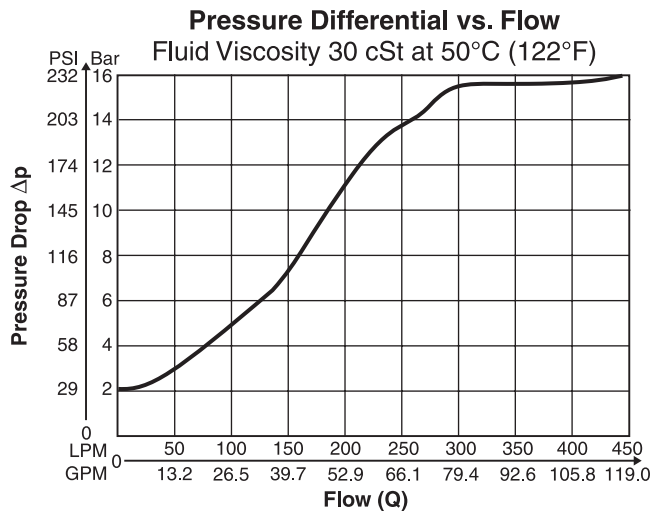
RG07*30*D



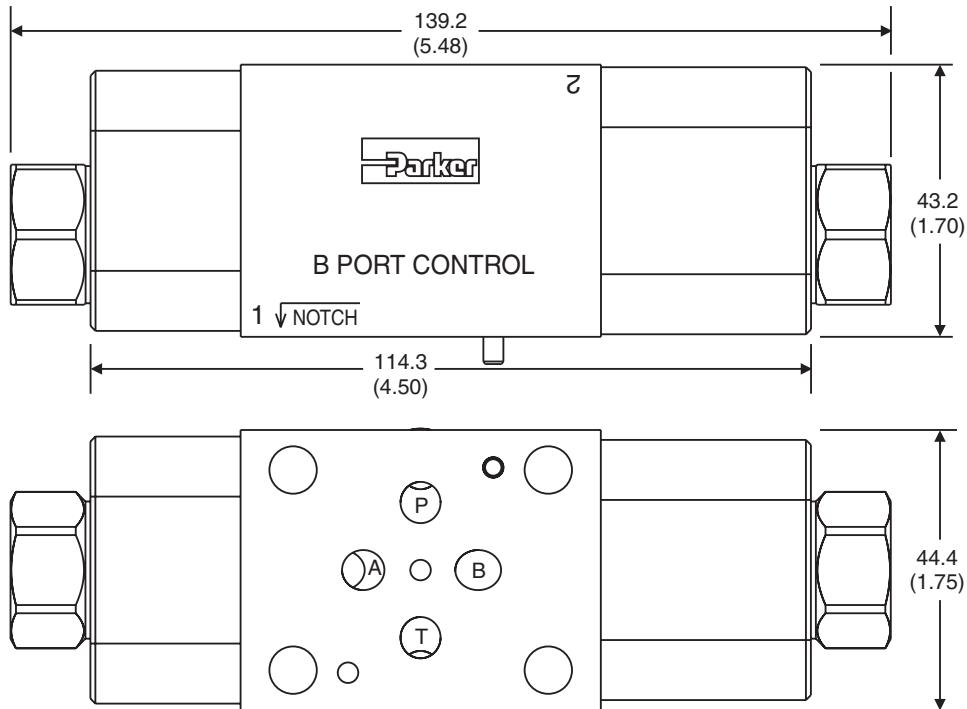
RG08*30*A



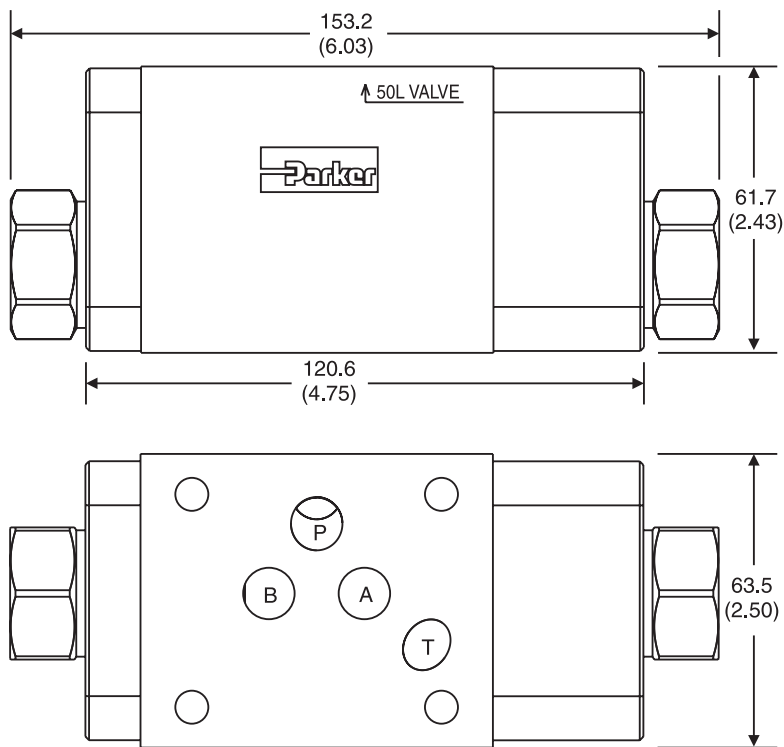
RG08*30*D



RG03BA – Inch equivalents for millimeter dimensions are shown in (**)

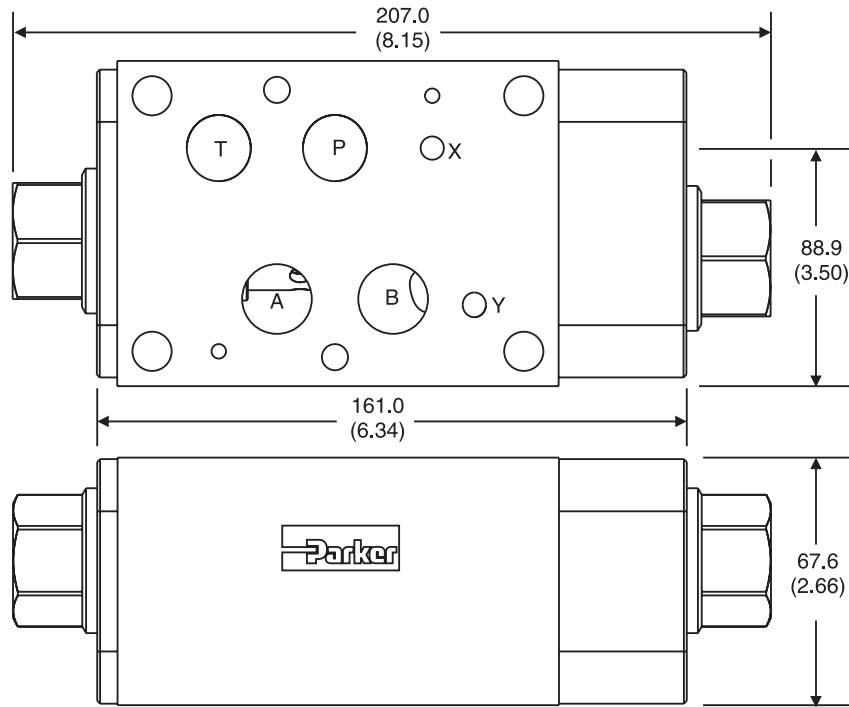


RG05BA – Inch equivalents for millimeter dimensions are shown in (**)



RG07BA – Inch equivalents for millimeter dimensions are shown in (**)

Note: This is a top view.



RG08BA – Inch equivalents for millimeter dimensions are shown in (**)

