

## 1030 / 1031 SERIES

### Technical Data

#### Pressure Loss

The pressure can be calculated using the  $K_v$  value and flow rate

$$K_v = \frac{Q}{\sqrt{\Delta P}}, \quad C_v = 1.167 K_v$$

where  $K_v$  = flow coefficient - m<sup>3</sup>/h @ 1bar  
 $Q$  = flow rate - m<sup>3</sup>/hr  
 $\Delta P$  = headloss attributable to valve - bar  
 $C_v$  = flow coefficient - usgal/min @ 1bf/in<sup>2</sup>

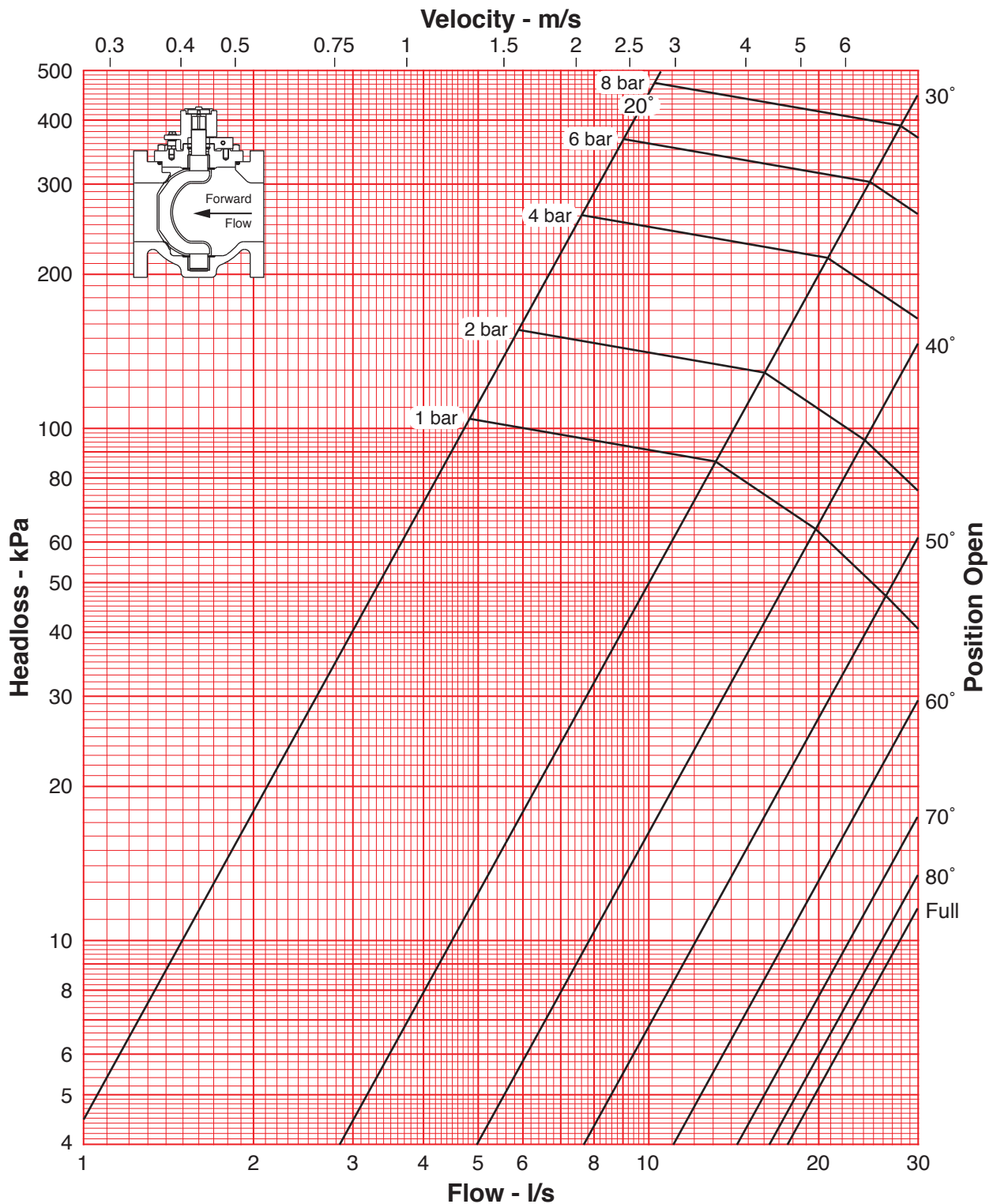
#### $K_v$ and $C_v$ Values - Forward Flow

Size		20°	30°	40°	50°	60°	70°	80°	Full Open
2 1/2"	$K_v$	17	51	89	138	199	258	295	317
	$C_v$	20	60	104	161	232	301	344	370
3"	$K_v$	12	41	90	152	231	345	453	550
	$C_v$	14	48	105	177	270	403	529	642
4"	$K_v$	53	122	212	309	420	642	840	1,006
	$C_v$	62	142	247	361	490	749	980	1,174
5"	$K_v$	85	182	320	486	689	890	1,295	1,901
	$C_v$	99	212	373	576	804	1,039	1,511	2,218
6"	$K_v$	102	241	402	604	852	1,188	1,593	2,057
	$C_v$	119	281	469	705	994	1,386	1,859	2,400
8"	$K_v$	250	561	893	1,278	1,724	2,164	2,800	3,624
	$C_v$	292	655	1,042	1,491	2,012	2,525	3,268	4,229
10"	$K_v$	260	576	946	1,364	1,851	2,668	4,095	6,118
	$C_v$	303	672	1,104	1,592	2,160	3,114	4,779	7,140
12"	$K_v$	362	852	1,419	2,096	2,911	4,003	5,855	7,237
	$C_v$	422	994	1,656	2,446	3,397	4,672	6,833	8,446
14"	$K_v$	493	1,060	1,560	2,317	2,827	3,354	3,757	4,006
	$C_v$	575	1,237	1,821	2,704	3,299	3,914	4,384	4,675
16"	$K_v$	634	1,310	2,061	2,807	3,639	4,229	5,021	5,687
	$C_v$	740	1,529	2,405	3,276	4,247	4,935	5,860	6,637
18"	$K_v$	761	1,532	2,393	3,335	4,347	5,357	6,208	7,045
	$C_v$	888	1,788	2,793	3,892	5,073	6,252	7,245	8,222
20"	$K_v$	1,316	2,463	3,309	4,838	6,179	7,598	8,967	10,038
	$C_v$	1,536	2,874	3,862	5,646	7,211	8,867	10,464	11,714
24"	$K_v$	1,493	2,817	4,424	6,590	8,743	10,573	12,127	13,609
	$C_v$	1,742	3,287	5,163	7,691	10,203	12,339	14,152	15,882

## 2 1/2" Eccentric Plug Valve

Flow Chart of Headloss against Flow Rate - Forward Flow

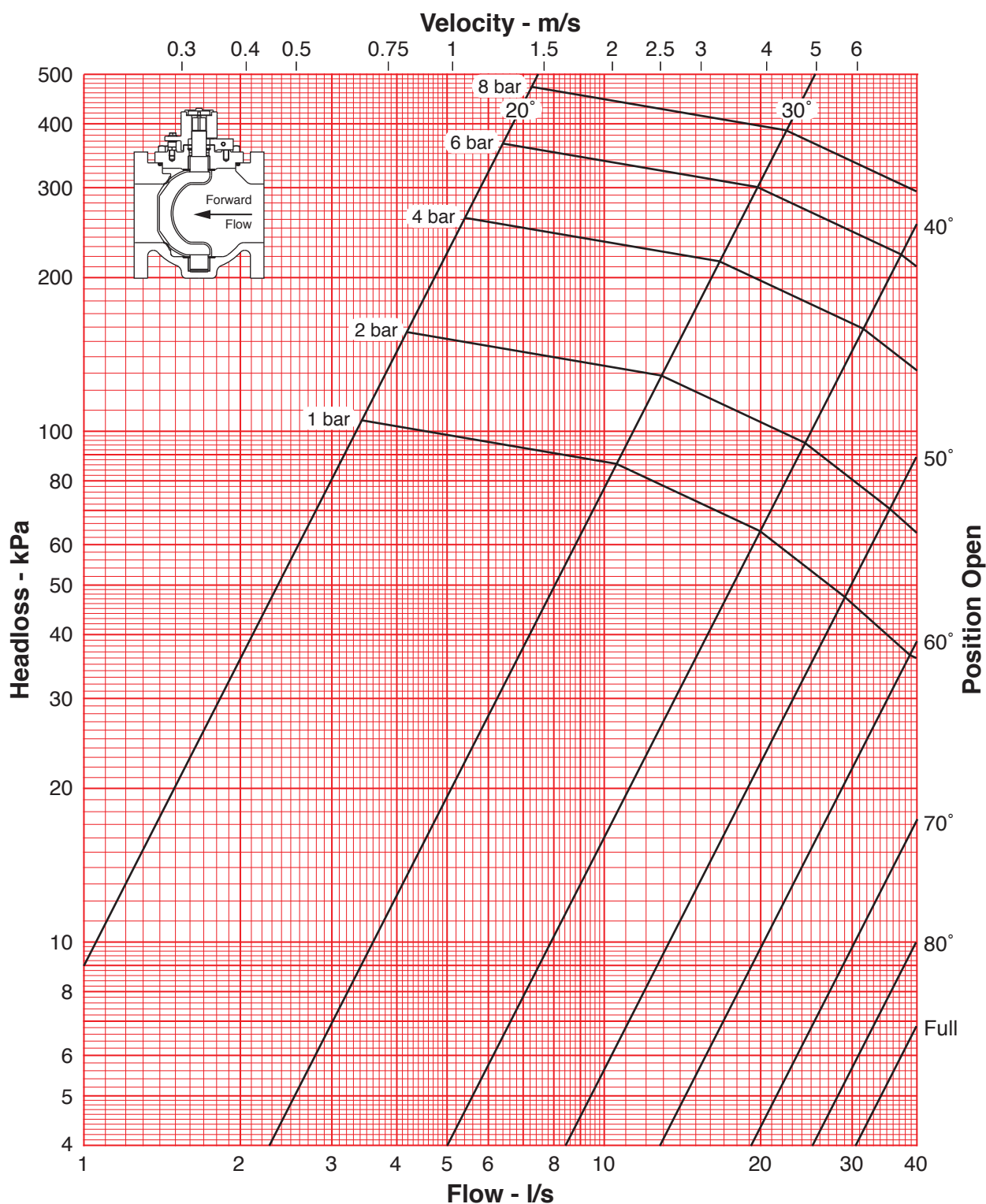
Position	20°	30°	40°	50°	60°	70°	80°	90°
Kv	17	51	89	138	199	258	295	317
Cv	20	60	104	161	232	301	344	370



## **3" Eccentric Plug Valve**

Flow Chart of Headloss against Flow Rate - Forward Flow

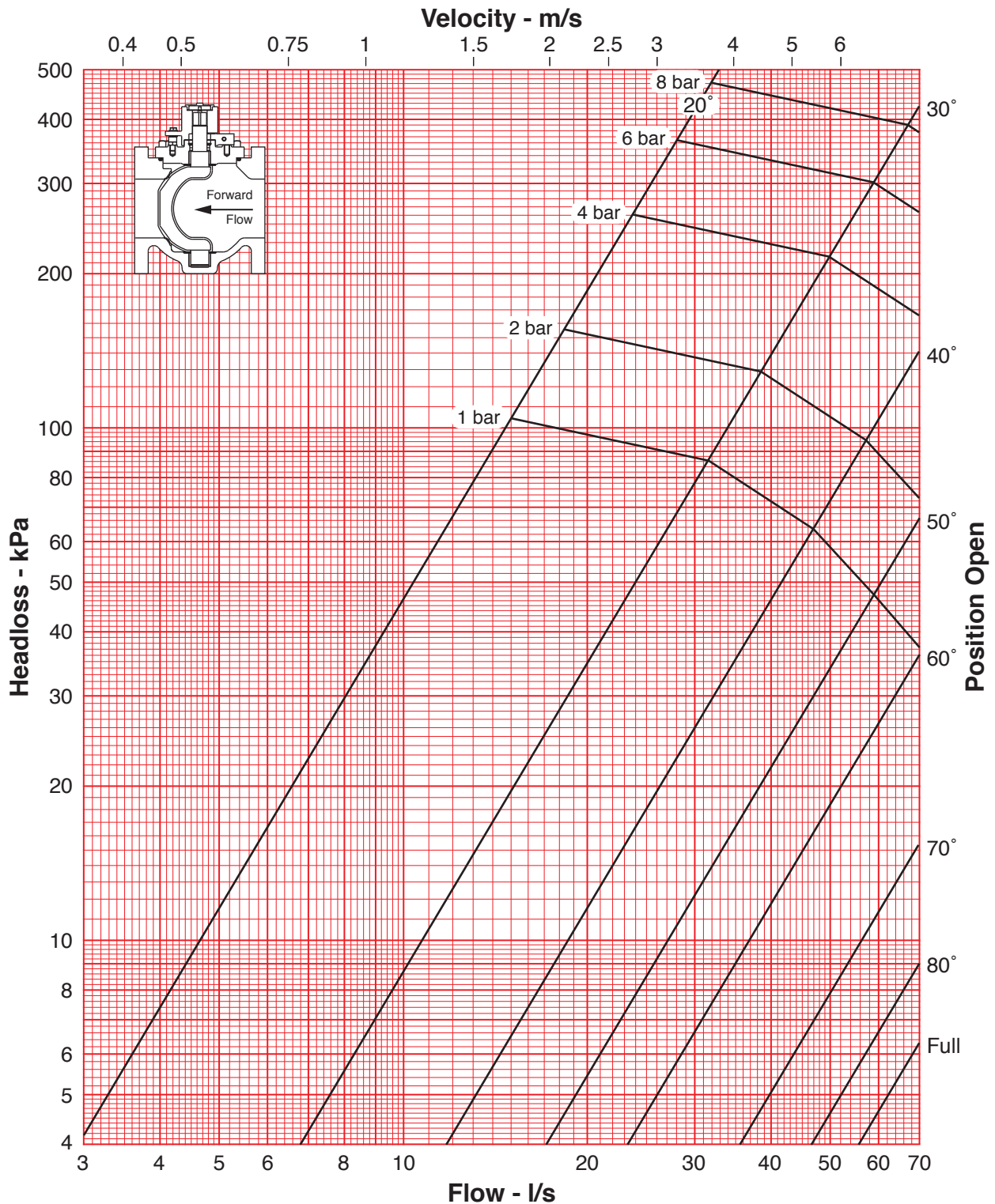
Position	20°	30°	40°	50°	60°	70°	80°	90°
Kv	12	41	90	152	231	345	453	550
Cv	14	48	105	177	270	403	529	642



## 4" Eccentric Plug Valve

Flow Chart of Headloss against Flow Rate - Forward Flow

Position	20°	30°	40°	50°	60°	70°	80°	90°
Kv	53	122	212	309	420	642	840	1,006
Cv	62	142	247	361	490	749	980	1,174

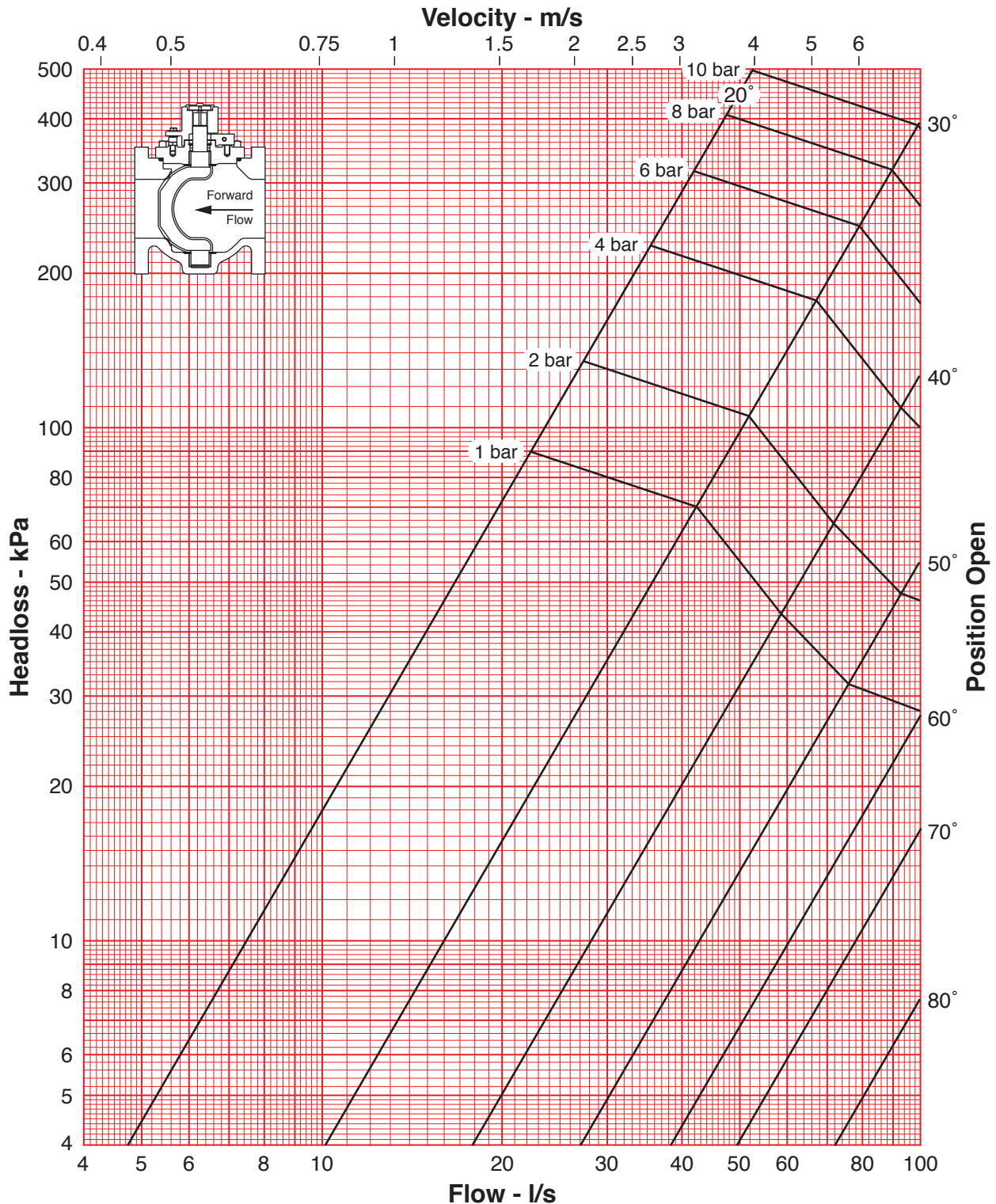


DN100 Eccentric Fwd - Issue 1

## 5" Eccentric Plug Valve

Flow Chart of Headloss against Flow Rate - Forward Flow

Position	20°	30°	40°	50°	60°	70°	80°	90°
Kv	85	182	320	486	689	890	1,295	1,901
Cv	99	212	373	576	804	1,039	1,511	2,218

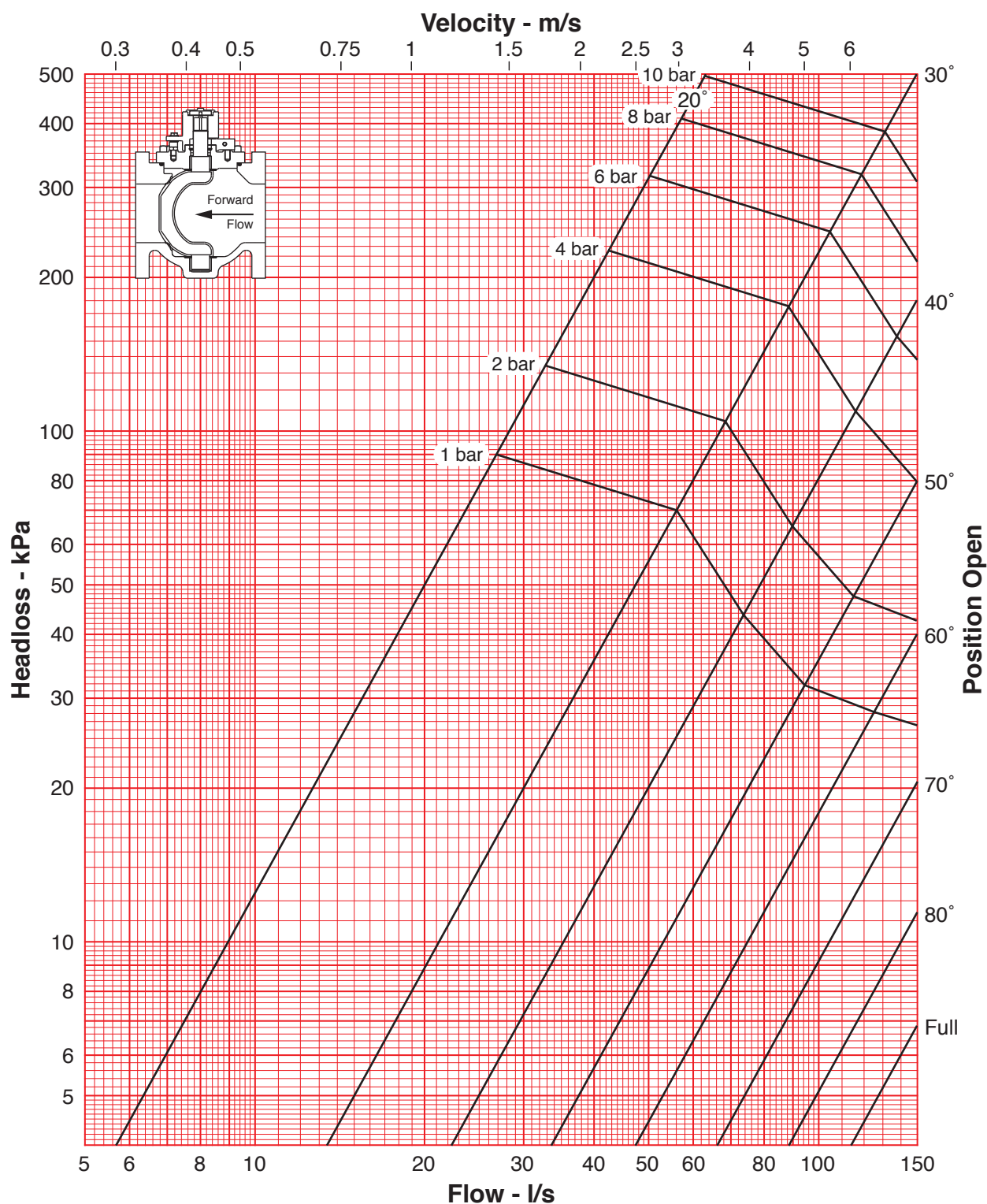


DN125 Eccentric Fwd - Issue 1

## 6" Eccentric Plug Valve

Flow Chart of Headloss against Flow Rate - Forward Flow

Position	20°	30°	40°	50°	60°	70°	80°	90°
Kv	102	241	402	604	852	1,188	1,593	2,057
Cv	119	281	469	705	994	1,386	1,859	2,400

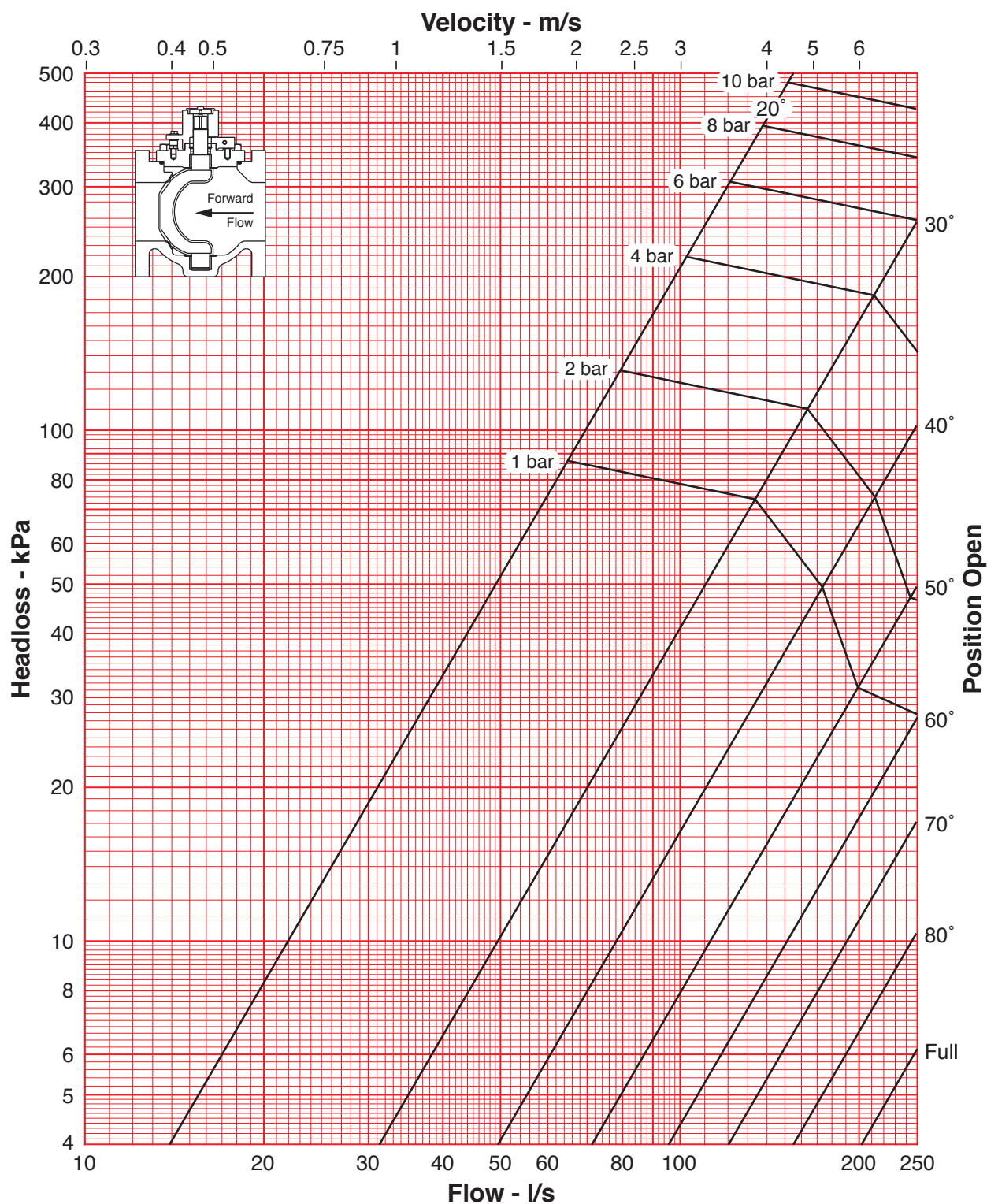


DN150 Eccentric Fwd - Issue 1

## 8" Eccentric Plug Valve

### Flow Chart of Headloss against Flow Rate - Forward Flow

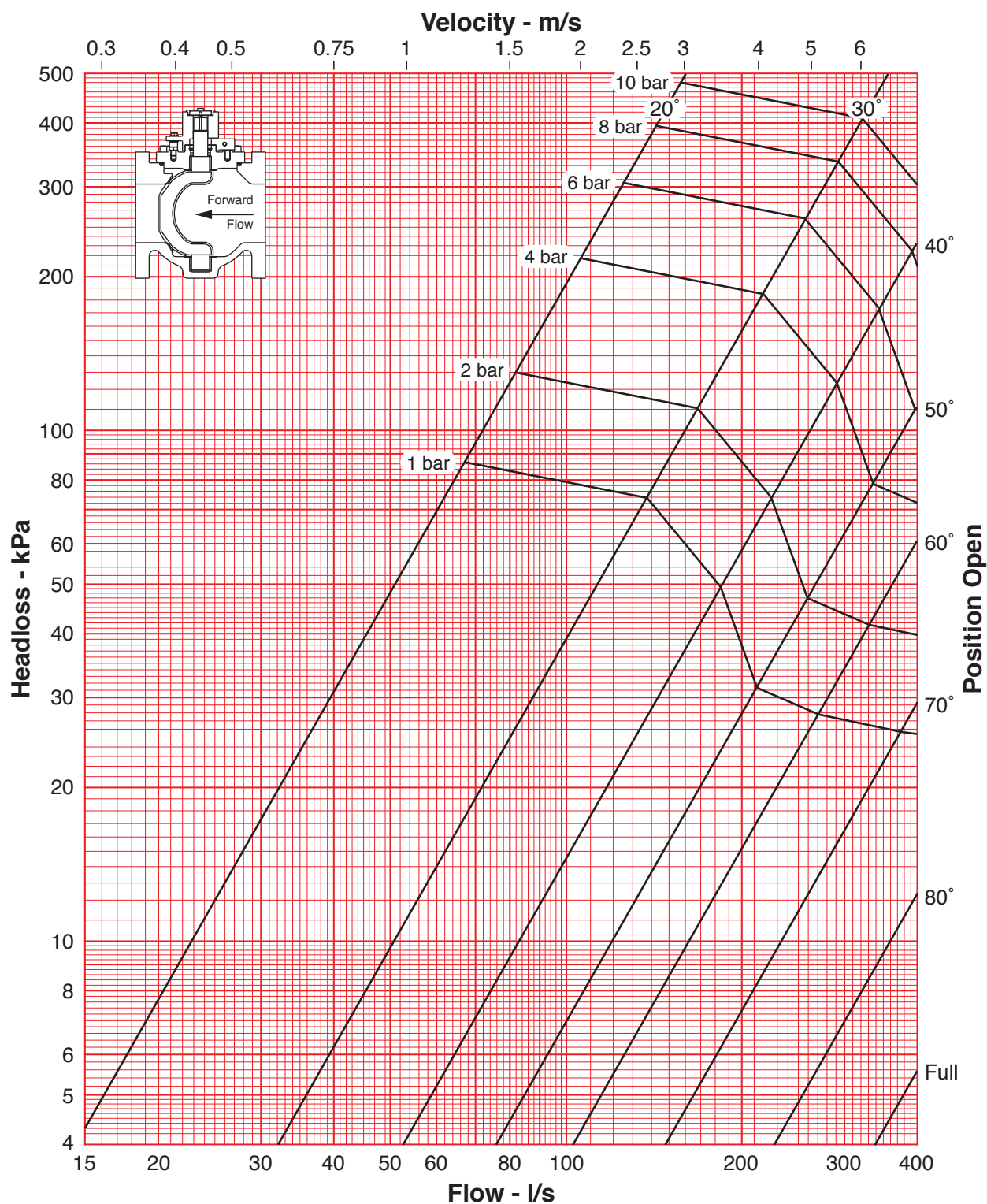
Position	20°	30°	40°	50°	60°	70°	80°	90°
Kv	250	561	893	1,278	1,724	2,164	2,800	3,624
Cv	292	655	1,042	1,491	2,012	2,525	3,268	4,229



## 10" Eccentric Plug Valve

### Flow Chart of Headloss against Flow Rate - Forward Flow

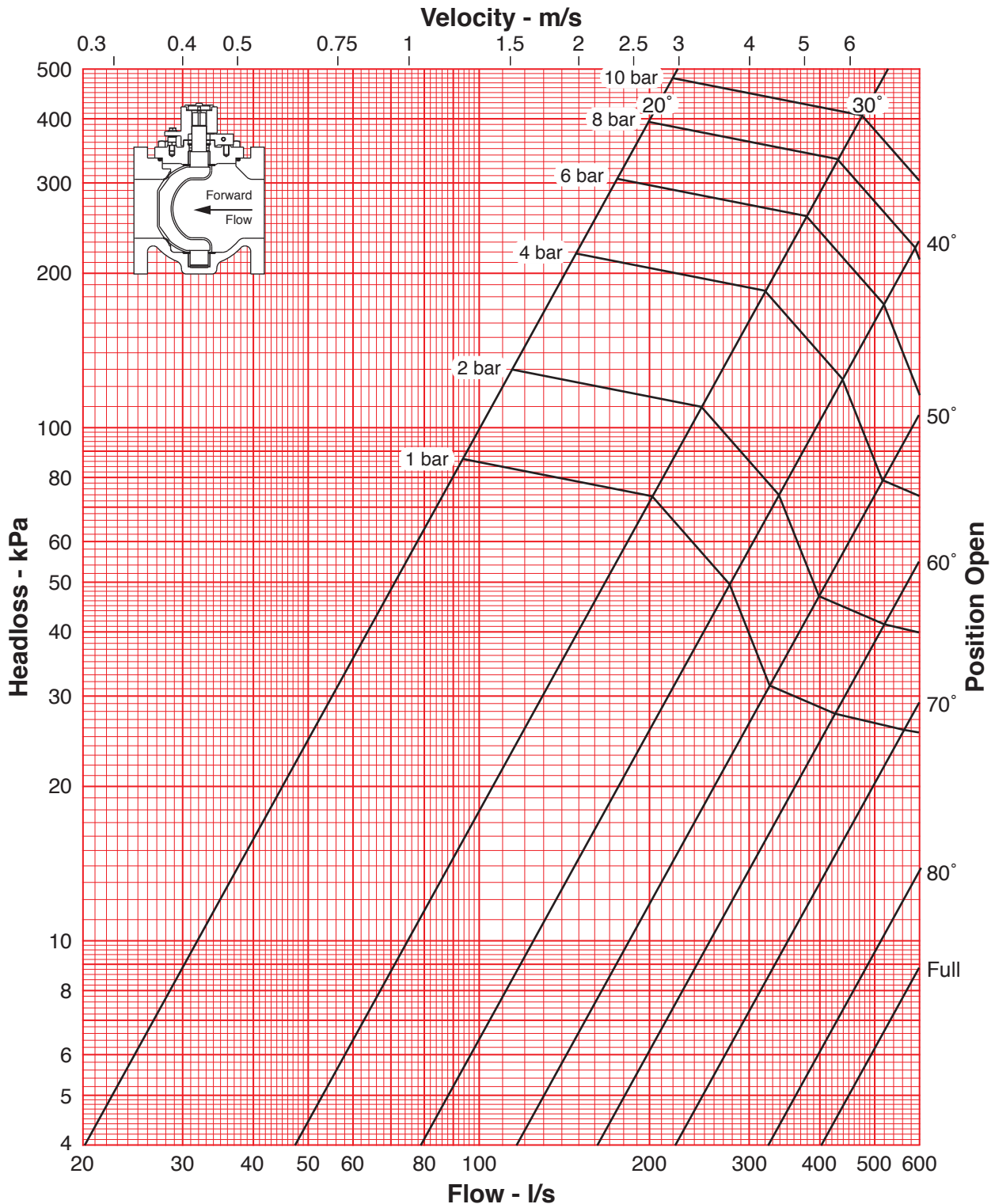
Position	20°	30°	40°	50°	60°	70°	80°	90°
Kv	260	576	946	1,364	1,851	2,668	4,095	6,118
Cv	303	672	1,104	1,592	2,160	3,114	4,779	7,140



## 12" Eccentric Plug Valve

Flow Chart of Headloss against Flow Rate - Forward Flow

Position	20°	30°	40°	50°	60°	70°	80°	90°
Kv	362	852	1,419	2,096	2,911	4,003	5,855	7,237
Cv	422	994	1,656	2,446	3,397	4,672	6,833	8,446

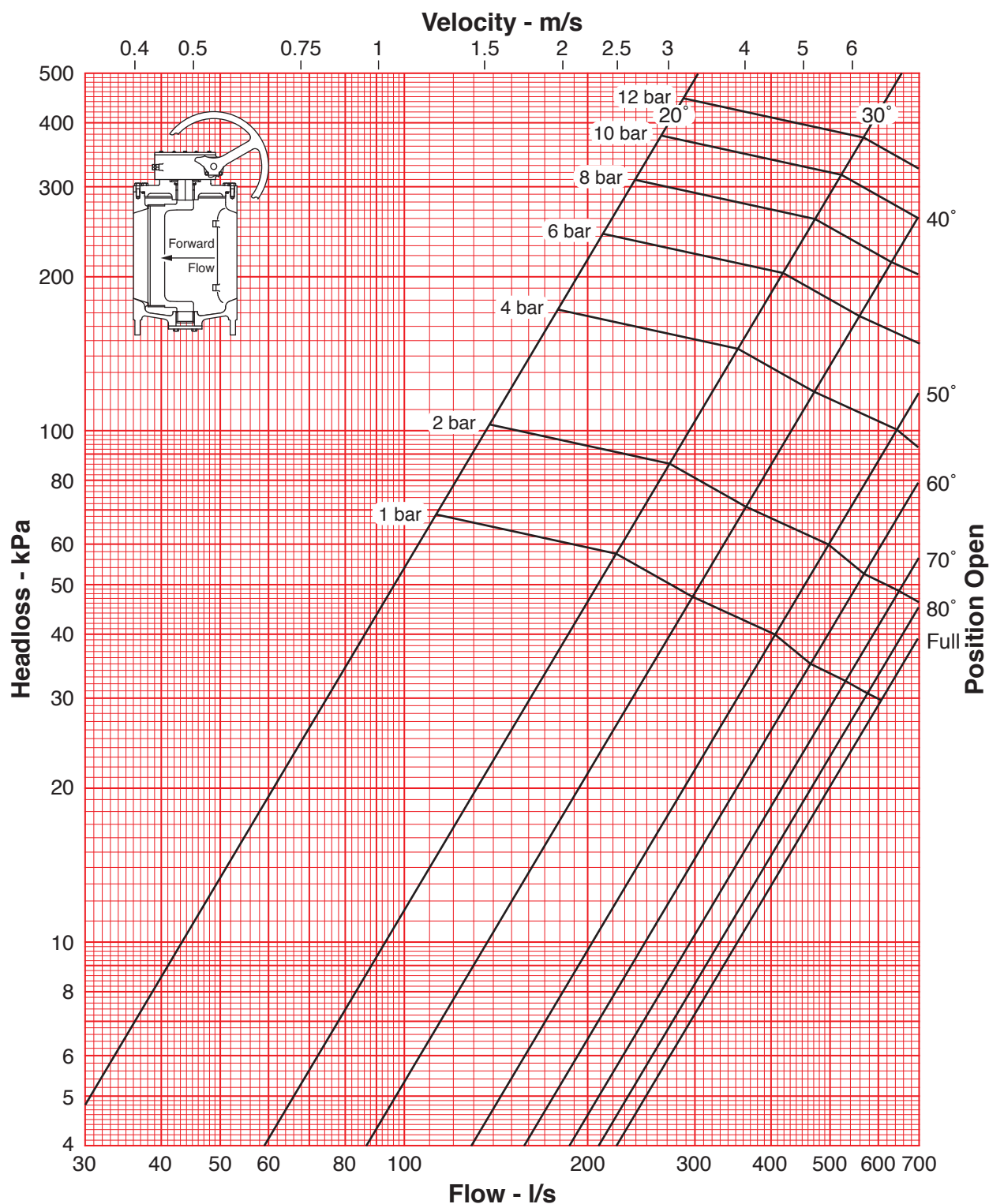


DN300 Eccentric Fwd - Issue 1

## **14" Eccentric Plug Valve**

Flow Chart of Headloss against Flow Rate - Forward Flow

Position	20°	30°	40°	50°	60°	70°	80°	90°
Kv	493	1,060	1,560	2,317	2,827	3,354	3,757	4,006
Cv	575	1,237	1,821	2,704	3,299	3,914	4,384	4,675

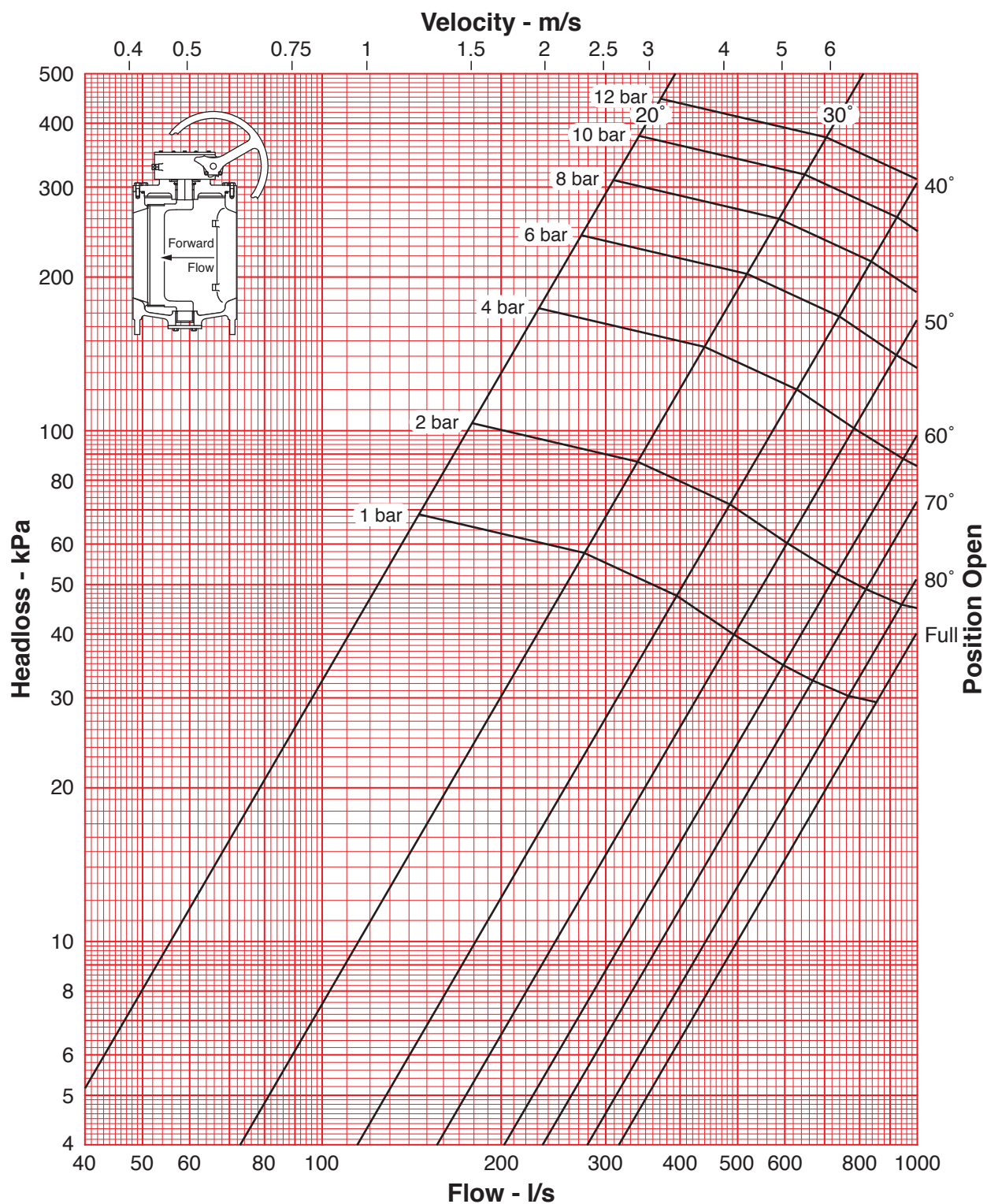


DN350 Eccentric Fwd - Issue 1

## **16" Eccentric Plug Valve**

Flow Chart of Headloss against Flow Rate - Forward Flow

Position	20°	30°	40°	50°	60°	70°	80°	90°
Kv	634	1,310	2,061	2,807	3,639	4,229	5,021	5,687
Cv	740	1,529	2,405	3,276	4,247	4,935	5,860	6,637

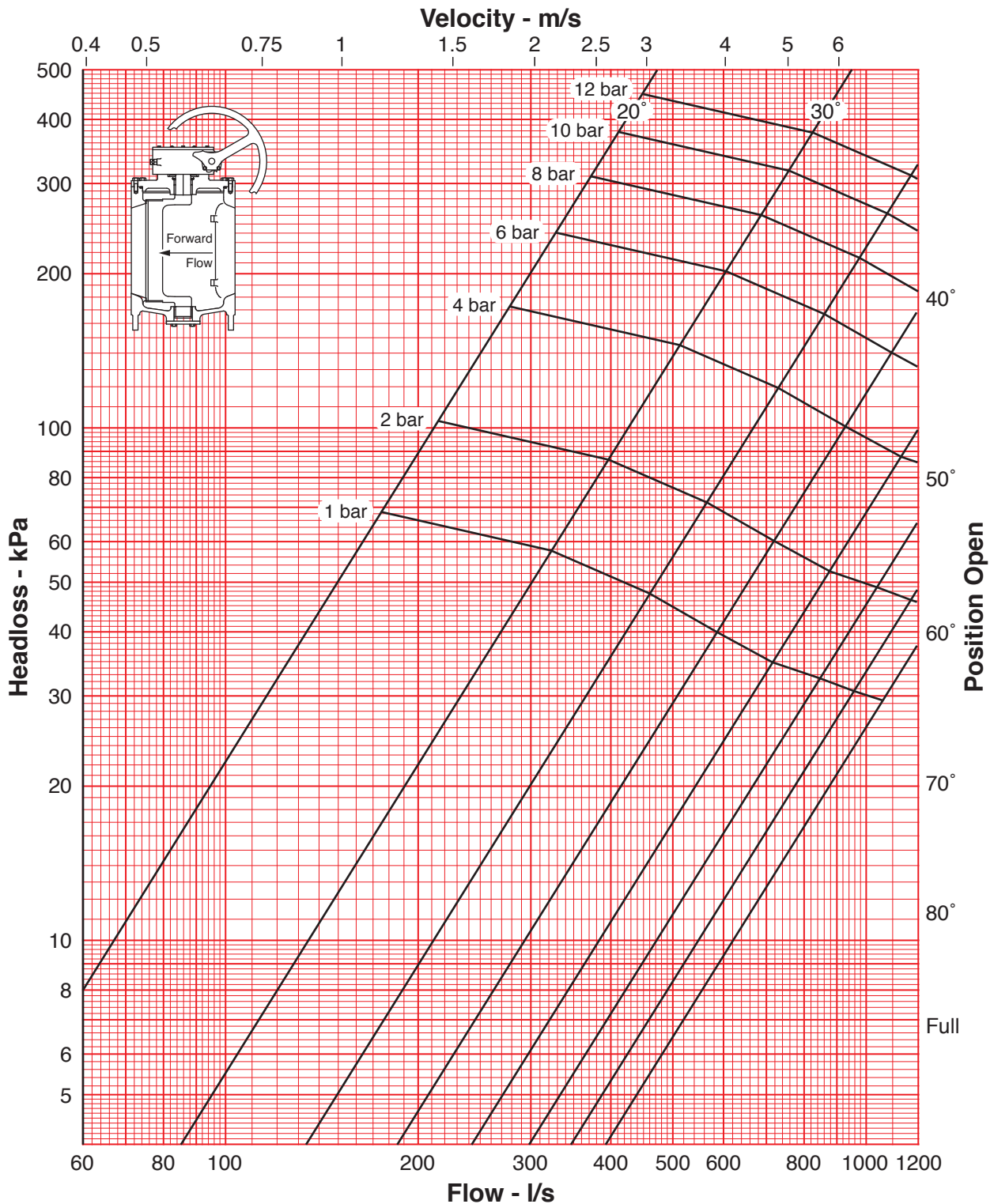


DN400 Eccentric Fwd - Issue 1

## 18" Eccentric Plug Valve

Flow Chart of Headloss against Flow Rate - Forward Flow

Position	20°	30°	40°	50°	60°	70°	80°	90°
Kv	761	1,532	2,393	3,335	4,347	5,357	6,208	7,045
Cv	888	1,788	2,793	3,892	5,073	6,252	7,245	8,222

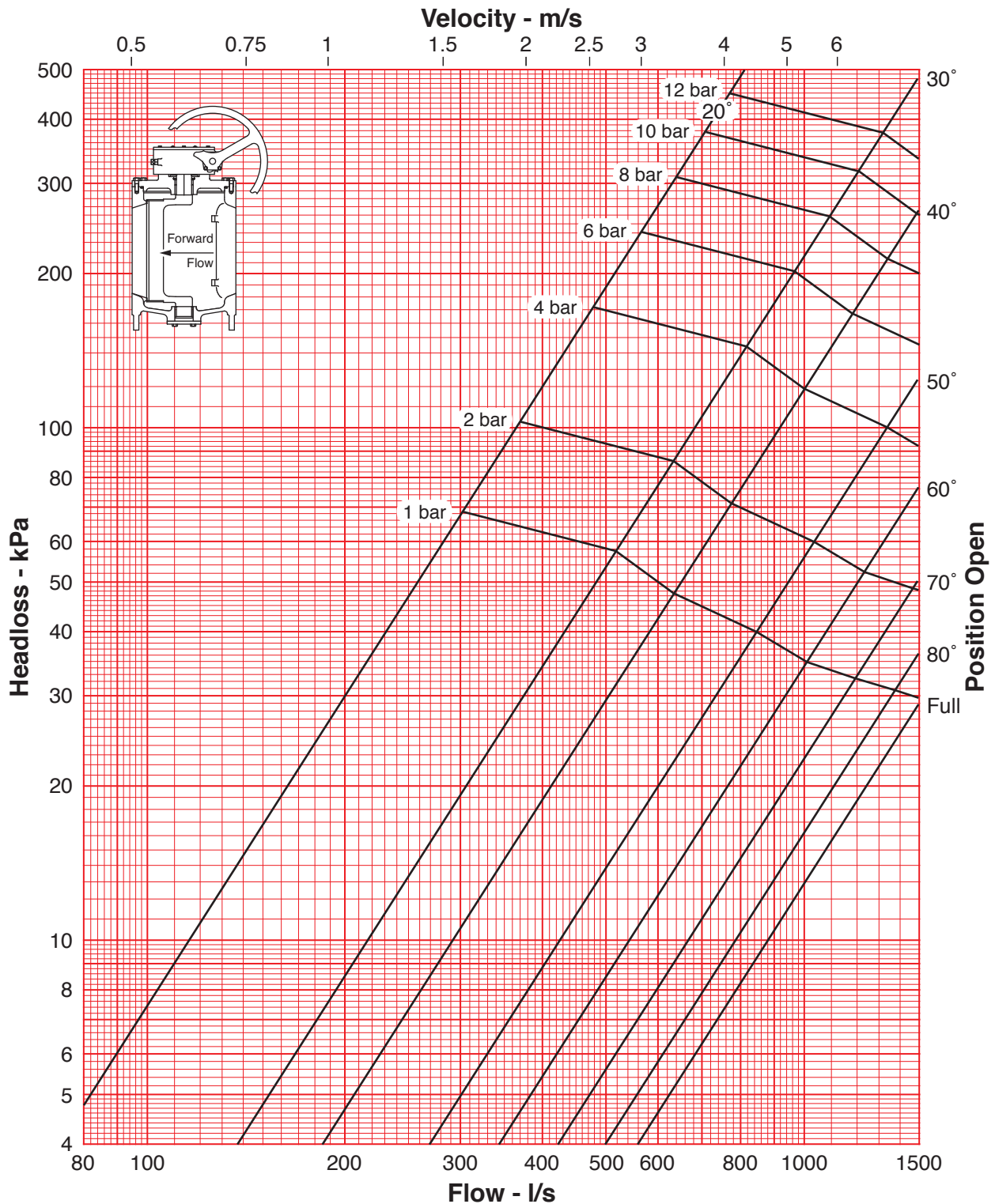


DN450 Eccentric Fwd - Issue 1

## 20" Eccentric Plug Valve

Flow Chart of Headloss against Flow Rate - Forward Flow

Position	20°	30°	40°	50°	60°	70°	80°	90°
Kv	1,316	2,463	3,309	4,838	6,179	7,598	8,967	10,038
Cv	1,536	2,874	3,862	5,646	7,211	8,867	10,464	11,714



DN500 Eccentric Fwd - Issue 1

## 24" Eccentric Plug Valve

Flow Chart of Headloss against Flow Rate - Forward Flow

Position	20°	30°	40°	50°	60°	70°	80°	90°
Kv	1,493	2,817	4,424	6,590	8,743	10,573	12,127	13,609
Cv	1,742	3,287	5,163	7,691	10,203	12,339	14,152	15,882

