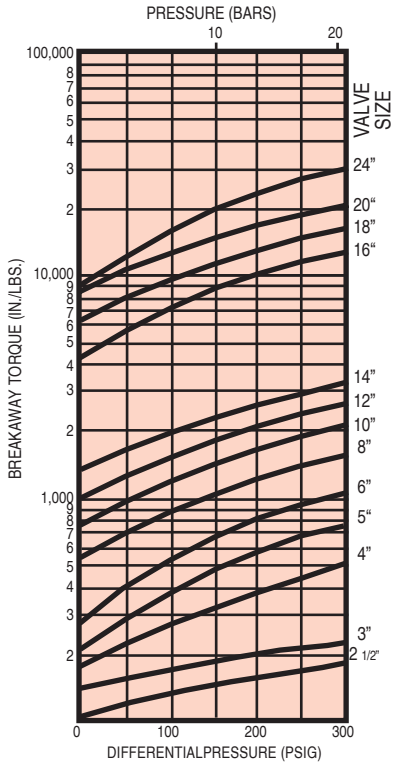


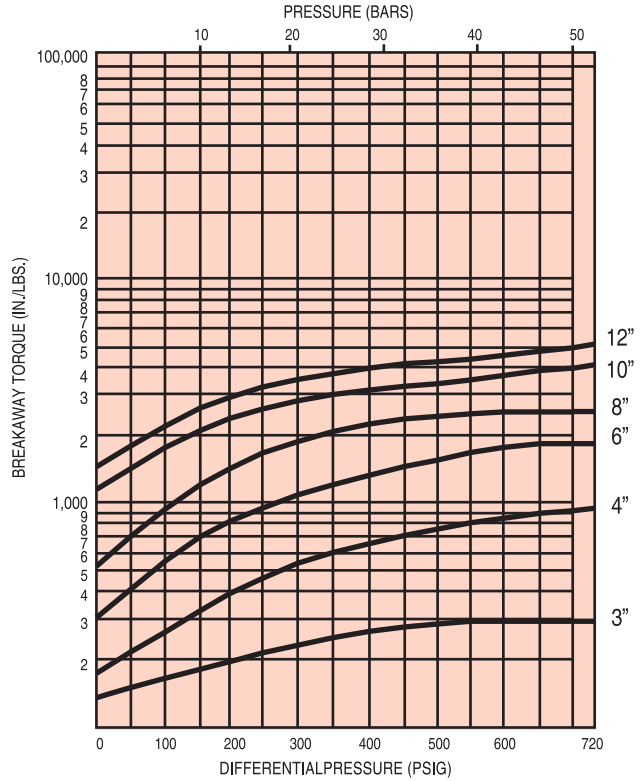
# Technical Data

## Torque - ANSI Class 150



Note: Torques based on clean service only.  
Certain highly viscous or abrasive services could increase these values.

## Torque - ANSI Class 300



Note: Torques based on clean service only.  
Certain highly viscous or abrasive services could increase these values.

## Operating Torque

Operating Torque (in-lbs.)									
PSIG	100		200		285		400	600	740
Size (in.)	150#	300#	150#	300#	150#	300#	300#	300#	300#
2 1/2	140	N/A	170	N/A	190	N/A	N/A	N/A	N/A
3	160	180	200	210	230	240	280	300	300
4	280	290	400	410	530	560	650	800	1000
5	380	N/A	550	N/A	750	N/A	N/A	N/A	N/A
6	540	600	820	900	1100	1150	1500	1800	1900
8	870	1000	1300	1600	1800	1950	2200	2600	2600
10	1350	1800	1700	2500	2200	2900	3200	3900	4200
12	1600	2300	2100	2900	2600	3700	4000	4900	5300
14	1900	N/A	2500	N/A	3100				
16	7300	N/A	11000	N/A	13000				
18	9500	N/A	13000	N/A	16000				
20	13000	N/A	17000	N/A	21000				
24	16000	N/A	24000	N/A	31000				
30	29000	N/A	39000	N/A	49000				
36	48000	N/A	69000	N/A	82000				

**Note:** All torques based on clean service without safety factor.