

Bypass Valves and Back Pressure Valves

These valves are soft seated, holding a differential back pressure on liquid meters. Type NI20 is installed after the meter, and it holds a back pressure on the meter until vapor is forced back to the tank through the vapor eliminator. In this way vapor cannot form within the meter during liquid delivery. Intended for small pumps, NI20s are ideal on such applications as cylinder filling installations. All units have a 1/4" FNPT tapped and plugged boss on the inlet side of body and can be used for both LP-Gas and NH₃ service. The NI20 has a 1/4" FNPT connection in the closing cap for attachment of an external sensing line from the tank vapor space or vapor eliminator.



NI00A-10-2

Large Pump Bypass Valves

Type Number	Pump Size	Body Size	PSID Setting	PSID Range
NI00A-08-1	2"	1" FNPT	50 psig	25-75 psig
NI00A-08-2			115 psig	50-150 psig
NI00A-10-2	2-3"	1 1/4" FNPT	115 psig	50-150 psig
NI00A-12-1		1 1/2" FNPT	50 psig	25-75 psig
NI00A-12-2			115 psig	50-150 psig
NI00-16-1	4"	2" FNPT	50 psig	25-75 psig
NI00-16-2			115 psig	50-150 psig
NI00-20-2		2 1/2" FNPT	50 psig	25-75 psig

PSID = Pounds Per Square Inch Differential
(The pressure difference, before and after the valve or pump.)



NI20-8-3



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Back Pressure Valves

Type Number	Liquid Meter Size	Body Size	PSID Setting	PSID Range
N120-06-3	3/4 or 1"	3/4" FNPT	12 psig	10-20 psig
N120-08-3		1" FNPT		

Bypass Valves and Back Pressure Valves (cont.)

Corken Bypass Valves

Part Number	Size	PSI Range	Description
B166-.75	3/4"	50 -150	Vapor elimination for all
B166-1	1"	50 -150	
T166-1.25	1 1/4"	50 -150	Modulating Flo-Control Valve
T166-1.5	1 1/2"	50 -150	
B177-2	2"	30 - 80	Differentiating by-pass with pressure sensing line from storage
B177-2.5	2 1/2"	80 - 160	
ZV200	2"	91 - 125	Low Pressure By-pass Valve

Notes: For B166 Repair Kit order B166 RPR Kit



B166-.75

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The new ZV200 is a low-pressure build-up bypass valve designed for applications requiring protection for positive displacement pumps. Specifically designed for protecting pumps with capacities up to 250gpm (946L/min). The continuous internal bleed will assist in the operation of systems with "air" or "electric" operated internal valves. Typical applications include bobtail, transport and stationary loading and unloading of LPG, NH3 and other light liquids.

ZV200



Differential by-pass with pressure sensing line from storage tank for true differential control.

B177 BY-PASS



Tank and stationary pump by-pass

T166 BY-PASS



Relief Valves and Bypass Valves

98H-30



The Fisher 98H is a self-operated relief valve for use on relief and back pressure applications involving large liquid propane pumping systems and vaporizers. Internal pressure registration eliminates the need for a control line. The 98H units are not UL listed.

Relief Valves for Liquid Service

Part Number	Body Size	Relief Pressure Range
98H-17	1/2" FNPT	25 - 75 PSI
98H-18	1/2" FNPT	70 - 140 PSI
98H-22	3/4" FNPT	70 - 140 PSI
98H-30	1" FNPT	70 - 140 PSI
98H-31	1" FNPT	130 - 200 PSI
98H-100	2" FNPT	80 - 170 PSI
98H-108	1 1/2" FNPT	50 - 100 PSI

BVI 1/4



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Blackmer Bypass Valves

Part No.	Body Size	Pump Size	Set PSI	PSI Range	Cap. GPM
BV 1	1" NPT	1 1/4" - 1 1/2"	95	70 - 100	50
BV 1 1/4	1 1/4" NPT	1 1/4" - 2"	115	90 - 125	125
BV 1 1/2	1 1/2" NPT	2" - 3"			
BV 2	2" NPT	3" - 4"	95		